JEROME ELEMENTARY SCHOOL

Jerome, Idaho

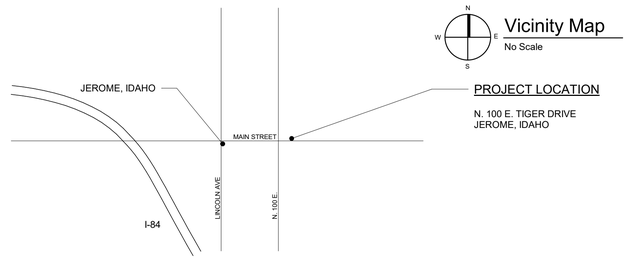
02/11/2022

BID SET

LKV ARCHITECTS

PROJECT NO. 2120

Vicinity Map



Sheet Schedule

Project Team

OWNER

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Jerome, ID 83338

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IDAPA 58.01.08.542.07
Separation of Potable, Non-Potable, and Raw Water Pipelines

07. Separation of Potable, Non-Potable, and Raw Water Pipelines. The requirements for the protection of potable mains from contamination by non-potable pipelines are described in Subsections 542.07.a. through 542.07.c. For the purposes of Subsection 542.07, the term "pipeline" applies to both mains and services. The Department will use the Memorandum of Understanding with the Plumbing Bureau as guidance in determining the relative responsibilities for reviewing service lines. The conditions of Subsections 542.07.a. and 542.07.b. shall apply to all potable services constructed or reconstructed after April 15, 2007 and where the Department or the QLPE is the reviewing authority. Raw water pipelines must be protected from contamination from non-potable pipelines, and must not contaminate potable pipelines. They shall therefore meet equivalent separation distances shown below from either potable or non-potable pipelines. (4-4-13)

a. Parallel installation requirements. (5-8-09)

i. Potable mains in relation to non-potable mains. (5-8-09)

(1) Greater than ten (10) feet separation: no additional requirements. (4-4-13)

(2) Ten (10) feet to six (6) feet separation: separate trenches, with the bottom of the potable main above the top of the non-potable main, and non-potable main constructed with potable water class pipe. (4-4-13)

(3) Less than six (6) feet separation: design engineer to submit data to the Department for review and approval showing that this installation will protect public health and the environment, non-potable main to be constructed of potable water class pipe, and with the bottom of the potable main above the top of the non-potable main. (4-4-13)

(4) Non-potable mains are prohibited from being located in the same trench as potable mains. (3-30-07)

(5) Pressure wastewater mains or other pressurized mains or lines containing non-potable fluids shall be no closer horizontally than ten (10) feet from potable mains. (4-7-11)

ii. New potable services in relation to non-potable services, new potable services in relation to non-potable mains, and new non-potable services in relation to potable mains. (5-8-09)

(1) Greater than six (6) feet separation: no additional requirements based on separation distance. (5-8-09)

(2) Less than six (6) feet separation: design engineer to submit data that this installation will protect public health and the environment and non-potable service constructed with potable water class pipe. (5-8-09)

(3) New potable services are prohibited from being located in the same trench as non-potable mains or non-potable services. (5-8-09)

b. Requirements for potable water mains or services crossing non-potable water mains or services. (4-4-13)

i. If there is eighteen (18) inches or more vertical separation with the potable water pipeline above the non-potable pipeline, then the potable pipeline joints must be as far as possible from the non-potable water pipeline. (4-7-11)

ii. If there is eighteen (18) inches or more vertical separation with the potable water pipeline below the non-potable pipeline, then the potable pipeline joints must be as far as possible from the non-potable pipeline, and the non-potable pipeline must be supported through the crossing to prevent settling. (4-7-11)

iii. Less than eighteen (18) inches vertical separation: (5-8-09)

(1) Potable pipeline joint to be as far as possible from the non-potable pipeline; and either: (5-8-09)

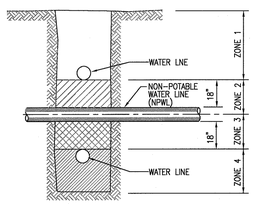
(a) Non-potable pipeline constructed with potable water class pipe for a minimum of ten (10) feet either side of potable pipeline with a single twenty (20) foot section of potable water class pipe centered on the crossing; or (5-8-09)

(b) Sleeve non-potable or potable pipeline with potable water class pipe for ten (10) feet either side of crossing. Use of hydraulic cementitious materials such as concrete, controlled density fill, and concrete slurry encasement is not allowed as a substitute for sleeving. (5-8-09)

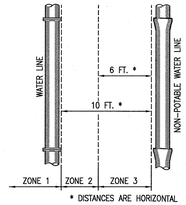
(2) If potable pipeline is below non-potable pipeline, the non-potable pipeline must also be supported through the crossing to prevent settling. (5-8-09)

iv. Pressure wastewater mains or other pressurized mains or lines containing non-potable fluids shall be no closer vertically than eighteen (18) inches from potable mains. (4-7-11)

c. Existing potable services in relation to new non-potable mains, existing non-potable services in relation to new potable mains, and existing potable services in relation to new non-potable services shall meet the requirements of Subsection 542.07.b., where practical, based on cost, construction factors, and public health significance. If the Department determines that there are significant health concerns with these services, such as where a large existing service serves an apartment building or a shopping center, then the design shall conform with Subsection 542.07.b. (5-8-09)



VERTICAL SEPARATION REQUIREMENTS



* DISTANCES ARE HORIZONTAL

HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1: A) WATER AND NPWL MUST BE SEPARATED BY AT LEAST 18 INCHES AND B) ONE FULL, UNCUT LENGTH OF PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

ZONE 2: A) ONE FULL, UNCUT LENGTH OF BOTH PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

AND EITHER B) NPWL MAIN MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF CROSSING.

OR C) EITHER THE NPWL OR WATER LINE OR BOTH MUST BE ENCASED WITH A SLEEVING MATERIAL ACCEPTABLE TO DEQ FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING.

ZONE 3:) SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NPWL ALSO MUST BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4:) SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 1: NO SPECIAL REQUIREMENTS.

ZONE 2: A) NO SPECIAL REQUIREMENTS FOR POTABLE OR NON-POTABLE SERVICES.

B) WATER AND NPWL SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS.

AND C) WATER AT LEAST 18 INCHES HIGHER IN ELEVATION THAT THE NPWL. WATER TIGHTNESS.

AND EITHER D) NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS.

OR E) SITE SPECIFIC REQUIREMENTS APPROVED BY DEQ.

ZONE 3: NOT ALLOWED WITHOUT DEQ WAIVER.

NOTE: SANITARY SEWER FORCE MAINS MUST HAVE MIN. 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION. ZONE 2 AND ZONE 3 PLACEMENTS ARE NOT ALLOWED WITHOUT A WAIVER GRANTED BY DEQ.

Mainline Separation Detail
Per 2017 ISPWC SD-407

Water Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STANDARDS, THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, THE UNIFORM PLUMBING CODE, AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STDS.
2. ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE ENGINEER.
3. COMPONENTS, MATERIALS AND DISINFECTION CHEMICALS INCORPORATED INTO POTABLE WATER SYSTEM INSTALLATIONS, INCLUDING SERVICE LINES, MUST BE COMPLIANT WITH ANSI/NSF STANDARD 60/61.
4. ALL FITTINGS, SERVICE LINES, VALVE BOXES AND LIDS, SHALL BE OF MATERIALS AND CONSTRUCTION APPROVED BY THE CITY OF JEROME. FLOW-MEASURING DEVICES INTENDED FOR POTABLE USE SHALL BE NSF CERTIFIED PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL PROVIDE APPURTENANCES TO PERFORM PRESSURE TEST AND DISINFECTION AS REQUIRED BY STANDARDS.
6. CONSTRUCTION SHALL NOT INTERRUPT SERVICE WITHOUT PRIOR CITY APPROVALS AND PROPER NOTIFICATION. TEMPORARY SERVICE FEEDS MAY BE REQUIRED AND MUST HAVE PRIOR AGENCY APPROVAL. ANY SHUT-OFF OF WATER SERVICE DURING INSTALLATION OF NEW SERVICE AS WELL AS ACCESS AND OTHER UTILITY FEEDS TO EXISTING ADJACENT FACILITIES SHALL BE COORDINATED WITH AFFECTED USERS BY THE CONTRACTOR TO AVOID THE LEAST POSSIBLE INCONVENIENCE TO ADJACENT FACILITIES. UNDER NO CIRCUMSTANCE SHALL EMERGENCY VEHICLE ACCESS BE INTERRUPTED TO ANY ADJACENT PARCEL.
7. ALL UTILITY SERVICE FEEDS SHALL BE VERIFIED FOR CONFORMANCE WITH THE ARCHITECT'S PLANS. THE CONTRACTOR SHALL EXTEND ALL UTILITY FEEDS TO WITHIN 5' OF THE BUILDING AT THE ARCHITECT'S TIE-IN POINTS.
8. MAINTAIN 36" MIN. COVER OVER ALL MAINS AND 42" MIN. COVER OVER ALL SERVICE LINES.
9. AN APPROVED BACKFLOW PREVENTER SHALL BE INSTALLED ON FIRE LINE(S).
10. ALL DRYWELLS SHALL BE INSTALLED TO MAINTAIN A MIN. SEPARATION OF 25' FROM POTABLE MAINS.
11. ALL APPLICABLE MATERIALS INCLUSIVE OF RESILIENT SEAT GATE VALVES TO BE LOW LEAD COMPLIANT (A MAX. OF 0.25% LEAD BY WEIGHT) AND MUST BE UTILIZED WHERE APPLICABLE DURING CONSTRUCTION.
12. CONTRACTOR SHALL INSTALL HYDRANTS AND THRUST BLOCK SYSTEMS IN ACCORDANCE WITH THE AFOREMENTIONED CONSTRUCTION STANDARDS.
13. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Water Main Cleaning

A. Clean and disinfect water-distribution piping as follows:
   1. Purge new water-distribution piping systems and parts of existing systems that have been altered, extended, or repaired before use.
   2. Use purging and disinfecting procedure prescribed by authorities having jurisdiction or, if method is not prescribed by authorities having jurisdiction, use procedure described in AWWA C651 or do as described in ISPWC or as follows:
      a. Fill system or part of system with water/chlorine solution containing at least 50 ppm of chlorine; isolate and allow to stand for 24 hours.
      b. After standing time, flush system with clean, potable water until no chlorine remains in water coming from system.
      c. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat procedure if biological examination shows evidence of contamination.
      d. Two biological samples must be collected from each sample location twenty-four hours apart and be deemed bacteria absent by a certified lab prior to potable operation. If one of the samples is found to be bacteria positive at a location then two consecutive clean samples collected twenty-four hours apart must be obtained from that location before public use.

B. Prepare reports of purging and disinfecting activities.

Flushing Note: Flushing shall occur from a fire hydrant at the northwest corner of construction and carried in a fire hose that discharges into a retention basin.

General Notes:

1. THE CONTRACTOR SHALL HAVE A CURRENT SET OF CONSTRUCTION PLANS STAMPED BY THE ENGINEER WITH AN APPROVAL STAMP BY THE CITY AND DEQ AT THE WORKSITE.
2. ALL CONSTRUCTION SHALL CONFORM TO THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, AND ALL OTHER LOCAL, STATE AND FEDERAL AGENCIES WHICH ARE APPLICABLE UNLESS OTHERWISE SHOWN.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM RUNOFF AND OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH SITE CONSTRUCTION. THE CONTRACTOR, AND EACH SUBCONTRACTOR, SHALL BE RESPONSIBLE FOR THE CLEAN-UP AND REMOVAL FROM THE JOB-SITE ANY TRASH OR EXCESS MATERIAL CREATED BY THE PERFORMANCE OF THEIR WORK. SUCH MATERIAL SHALL BE PLACED IN A DUMPSTER OR SIMILAR DEVICE PROVIDED BY THE CONTRACTOR OR TRANSPORTED FROM THE JOB-SITE.
4. RECORDED AND/OR FILED SURVEY MONUMENTS EXIST WITHIN THE LIMITS OF THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT OR HAVE REPLACED ANY DISTURBED/DESTROYED MONUMENTS.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE, INGRESS AND EGRESS.
6. THE CONTRACTOR SHALL REMOVE AND SORT ALL ON-SITE EXCAVATED NATIVE MATERIAL AND USE SUITABLE MATERIAL AS NEEDED WHERE FILL IS REQUIRED. FILL SHALL BE PLACED AND COMPACTED BY METHODS APPROVED BY THE CITY OF TWIN FALLS AND THE DESIGN ENGINEER. ALL STRIPPINGS NOT SUITABLE FOR FILL SHALL BE USED AS DIRECTED BY THE ENGINEEER OR DISCARDED OFF-SITE AT THE CONTRACTOR'S EXPENSE. REMOVAL OF SUITABLE MATERIAL NOT NEEDED ON SITE SHALL BE COORDINATED WITH THE OWNER.
7. EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND.
8. AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL 'DIGLINE' 48 HOURS PRIOR TO BEGINNING WORK. COORDINATE TIE-INS WITH APPROPRIATE UTILITY COMPANIES.
9. THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT ALL EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
10. ALL CHANGES REQUIRE APPROVAL BY THE PROJECT ENGINEER AND THE CITY ENGINEER. THE ENGINEER TAKES NO RESPONSIBILITY FOR ANY DEVIATIONS FROM THESE PLANS UNLESS AUTHORIZED, IN WRITING, BY THE ENGINEER.
11. IDAHO CODE 39-118 REQUIRES IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ) APPROVAL PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE CONFORMANCE WITH THESE PLANS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILL OUT AND SUBMIT A NOTICE OF INTENT (NOI) TO EPA AND HAVE A COPY OF THE POLLUTION PREVENTION PLAN AVAILABLE AT THE JOBSITE PRIOR TO CONST. SEE WEBSITE http://cfpub.epa.gov/npdes/stormwater/cgp.cfm.
13. CONTRACTOR SHALL INSTALL PIPE BEDDING AND TRENCH SYSTEMS IN CONFORMANCE WITH THE AFOREMENTIONED DESIGN STANDARDS.

Sanitary Sewer Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STD'S., THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. ALL TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH STANDARDS.
3. ALL SEWER MAINS AND FITTINGS TO BE CONSTRUCTED OUT OF ASTM D 3034-89, SDR 35 PVC PIPE.
4. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Pressure Irrigation Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STD'S., THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. ALL PRESSURE IRRIGATION MAINS SHALL BE PVC ASTM D 2241 (SDR-PR) CLASS 200, SDR 21 OR BETTER.
3. ALL PRESSURE IRRIGATION SERVICES SHALL CONFORM TO ISPWC STD. DWG. SD-902.
3. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Gravity Irrigation & Drainage Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NORTH SIDE CANAL CO. (NSCC), THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, AND ALL OTHER APPLICABEL AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. ALL TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH STANDARDS.
3. ALL IRRIGATION AND STORM DRAIN MAINS SHALL BE CONSTRUCTED OF MATERIALS AS NOTED ON THESE PLANS.
4. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Jerome Elementary School
Civil Construction Plans

Site Data

OWNER: JEROME SCHOOL DISTRICT NO. 261
125 4TH AVENUE WEST
JEROME, ID 83338
(208) 208-324-2392
CONTACT: DR. PAT CHARLTON

ENGINEER: EHM ENGINEERS, INC.
621 N. COLLEGE RD., SUITE 100
TWIN FALLS, ID 83301
(208) 734-4888
CONTACT: TIM VAWSER

EXISTING USE: VACANT

PROPOSED USE: NEW ELEMENTARY SCHOOL

EXISTING ZONE: PUBLIC

VARIANCE: NONE REQUESTED

BENCHMARK: 5/8" REBAR WITH ORANGE CAP AT THE INTERSECTION OF GLEN EAGLE DRIVE. 200' W. OF TIGER DR. ELEV. = 3828.77.

IRRIGATION: PRIVATE PRESSURE IRRIGATION PUMP STATION WITH SHARES DELIVERED TO THE NORTHEAST CORNER OF THE SITE BY NORTH SIDE CANAL COMPANY.

STORMWATER: STORM WATER FOR PROJECT SHALL BE DETAINED ON SITE.

SEWER: CITY OF JEROME MUNICIPAL SYSTEM.

WATER: CITY OF JEROME MUNICIPAL SYSTEM.

UTILITIES: UNDERGROUND JOINT TRENCH INCLUDING IDAHO POWER, INTERMOUNTAIN GAS, CABLE TV, LUMEN, AND PMT.

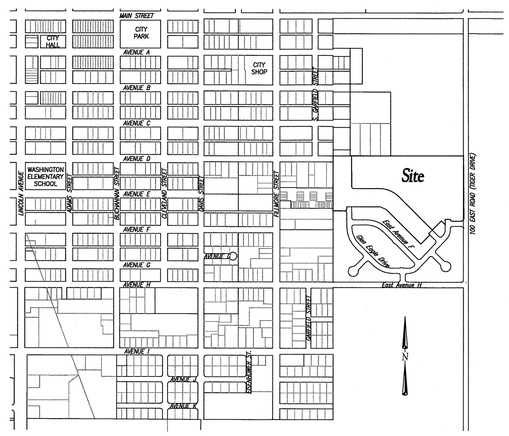
SETBACKS: ALL BUILDING AND YARD SETBACKS WILL BE IN ACCORDANCE WITH THE CURRENT CITY OF JEROME ORDINANCES.

Legend:

	EXISTING	PROPOSED
SUBDIVISION BOUNDARY LINE		
LOT LINE		
STREET CENTERLINE		
EASEMENT AS NOTED		
WATER MAIN	"W"	"W"
SEWER MAIN	-"-	8"SS
PRESSURE IRRIGATION		"PI"
GRAVITY IRRIGATION	IRR	"GI"
STORM DRAIN		"SD"
PERF. PIPE		"PP"
STANDARD CURB & GUTTER		
STAND-UP CURB		
CONTOUR LINE	3670	
MANHOLE	S	
FIRE HYDRANT		
GATE VALVE		
IRRIG. ASSEMBLY (AIR INJ. OR BLOWOFF)		AIR BO
WATER SERVICE		W
SEWER SERVICE		
PRESSURE IRR. SERVICE		
SIGN		
LIGHT POLE		
CATCH BASIN		

Sheet Index

Vicinity Sketch:



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LKV ARCHITECTS
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www.lkvarchitects.com
208.336.3443

#	Description	Date
	Revisions	

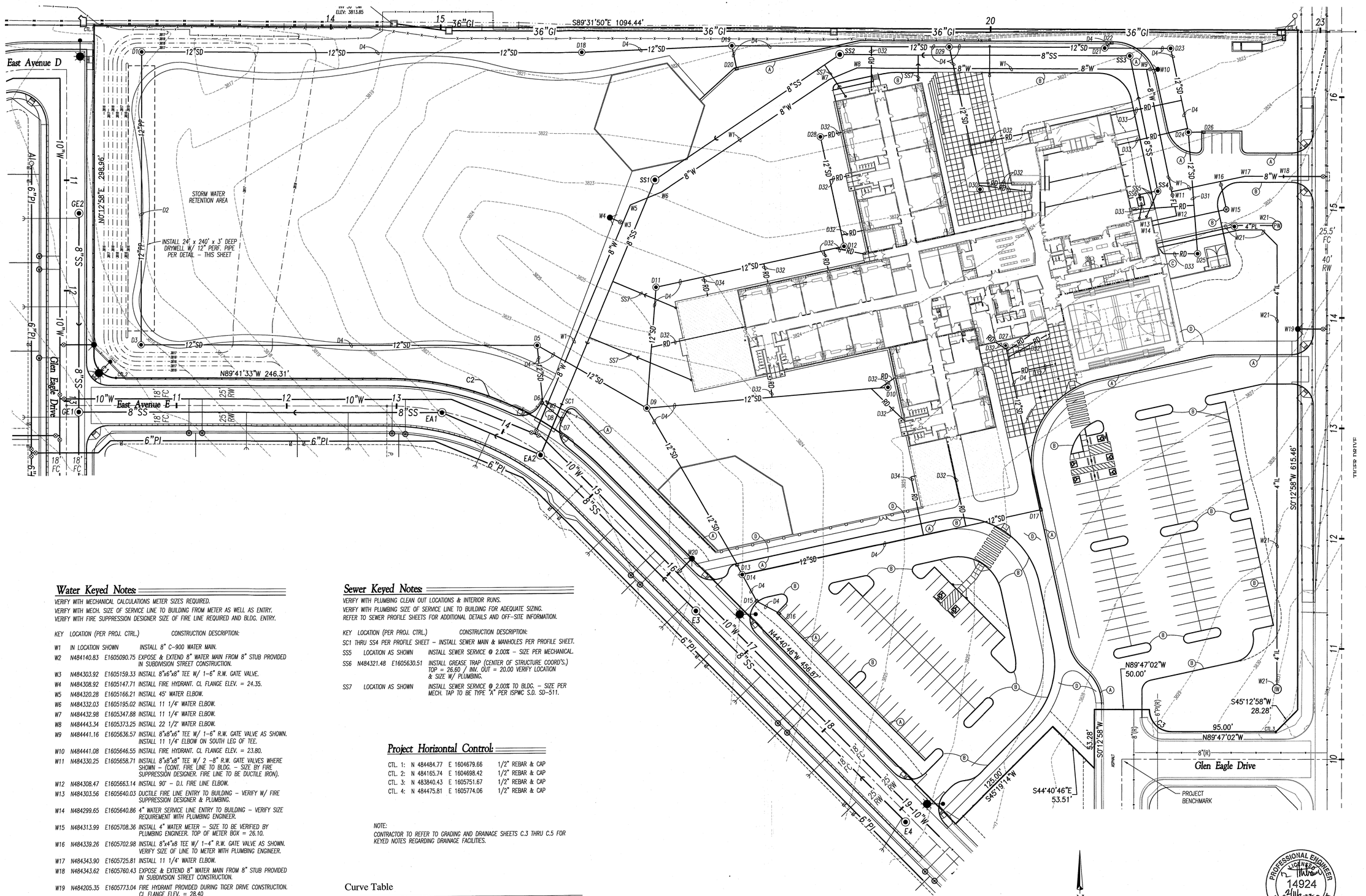
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
EHM PROJECT #: 351-21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:
C.1
CIVIL TITLE SHEET



Water Keyed Notes:

VERIFY WITH MECHANICAL CALCULATIONS METER SIZES REQUIRED.
VERIFY WITH MECH. SIZE OF SERVICE LINE TO BUILDING FROM METER AS WELL AS ENTRY.
VERIFY WITH FIRE SUPPRESSION DESIGNER SIZE OF FIRE LINE REQUIRED AND BLDG. ENTRY.

KEY	LOCATION (PER PROJ. CTRL.)		CONSTRUCTION DESCRIPTION:
W1	IN LOCATION SHOWN		INSTALL 8" C-900 WATER MAIN.
W2	N484140.83	E1605090.75	EXPOSE & EXTEND 8" WATER MAIN FROM 8" STUB PROVIDED IN SUBDIVISION STREET CONSTRUCTION.
W3	N484303.92	E1605159.33	INSTALL 8"x6"x8" TEE W/ 1-6" R.W. GATE VALVE.
W4	N484308.92	E1605147.71	INSTALL FIRE HYDRANT. CL FLANGE ELEV. = 24.35.
W5	N484320.28	E1605166.21	INSTALL 45° WATER ELBOW.
W6	N484332.03	E1605195.02	INSTALL 11 1/4° WATER ELBOW.
W7	N484432.98	E1605347.88	INSTALL 11 1/4° WATER ELBOW.
W8	N484443.34	E1605373.25	INSTALL 22 1/2° WATER ELBOW.
W9	N484441.16	E1605636.57	INSTALL 8"x8"x6" TEE W/ 1-6" R.W. GATE VALVE AS SHOWN. INSTALL 11 1/4° ELBOW ON SOUTH LEG OF TEE.
W10	N484441.08	E1605646.55	INSTALL FIRE HYDRANT. CL FLANGE ELEV. = 23.80.
W11	N484330.25	E1605658.71	INSTALL 8"x8"x8" TEE W/ 2 -8" R.W. GATE VALVES WHERE SHOWN - (CONT. FIRE LINE TO BLDG. - SIZE BY FIRE SUPPRESSION DESIGNER. FIRE LINE TO BE DUCTILE IRON).
W12	N484308.47	E1605663.14	INSTALL 90° - D.I. FIRE LINE ELBOW.
W13	N484303.56	E1605640.03	DUCTILE FIRE LINE ENTRY TO BUILDING - VERIFY W/ FIRE SUPPRESSION DESIGNER & PLUMBING.
W14	N484299.65	E1605640.86	4" WATER SERVICE LINE ENTRY TO BUILDING - VERIFY SIZE REQUIREMENT WITH PLUMBING ENGINEER.
W15	N484313.99	E1605708.36	INSTALL 4" WATER METER - SIZE TO BE VERIFIED BY PLUMBING ENGINEER. TOP OF METER BOX = 26.10.
W16	N484339.26	E1605702.98	INSTALL 8"x4"x8 TEE W/ 1-4" R.W. GATE VALVE AS SHOWN. VERIFY SIZE OF LINE TO METER WITH PLUMBING ENGINEER.
W17	N484343.90	E1605725.81	INSTALL 11 1/4° WATER ELBOW.
W18	N484343.62	E1605760.43	EXPOSE & EXTEND 8" WATER MAIN FROM 8" STUB PROVIDED IN SUBDIVISION STREET CONSTRUCTION.
W19	N484205.35	E1605773.04	FIRE HYDRANT PROVIDED DURING TIGER DRIVE CONSTRUCTION. CL FLANGE ELEV. = 28.40
W20	N483999.34	E1605221.31	FIRE HYDRANT PROVIDED DURING E. AVE. E CONSTRUCTION. CL FLANGE ELEV. = 22.35
W21	IN LOCATION SHOWN		PRODUCTION & INJECTION WELL SYSTEM - SEE SEPARATE PLAN SET ISSUED BY EHM FOR DETAILS.

Sewer Keyed Notes:

VERIFY WITH PLUMBING CLEAN OUT LOCATIONS & INTERIOR RUNS.
VERIFY WITH PLUMBING SIZE OF SERVICE LINE TO BUILDING FOR ADEQUATE SIZING.
REFER TO SEWER PROFILE SHEETS FOR ADDITIONAL DETAILS AND OFF-SITE INFORMATION.

KEY	LOCATION (PER PROJ. CTRL.)		CONSTRUCTION DESCRIPTION:
SC1	THRU SS4 PER PROFILE SHEET		INSTALL SEWER MAIN & MANHOLES PER PROFILE SHEET.
SS5	LOCATION AS SHOWN		INSTALL SEWER SERVICE @ 2.00% - SIZE PER MECHANICAL.
SS6	N484321.48	E1605630.51	INSTALL GREASE TRAP (CENTER OF STRUCTURE COORD'S.) TOP = 26.60 / INV. OUT = 20.00 VERIFY LOCATION & SIZE W/ PLUMBING.
SS7	LOCATION AS SHOWN		INSTALL SEWER SERVICE @ 2.00% TO BLDG. - SIZE PER MECH. TAP TO BE TYPE "A" PER ISPWC S.D. SD-511.

Project Horizontal Control:

CTL. 1:	N 484484.77	E 1604679.66	1/2" REBAR & CAP
CTL. 2:	N 484165.74	E 1604698.42	1/2" REBAR & CAP
CTL. 3:	N 483840.43	E 1605751.67	1/2" REBAR & CAP
CTL. 4:	N 484475.81	E 1605774.06	1/2" REBAR & CAP

NOTE:
CONTRACTOR TO REFER TO GRADING AND DRAINAGE SHEETS C.3 THRU C.5 FOR KEYED NOTES REGARDING DRAINAGE FACILITIES.

Curve Table

CURVE #	DELTA	RADIUS	ARC	CHORD	TANGENT	CHORD BRG
C1	89°54'30"	20.00'	31.38'	28.26'	19.97'	N44°44'18"W
C2	45°00'47"	275.00'	216.05'	210.53'	113.95'	N67°11'09"W
C3	90°00'00"	20.00'	31.42'	28.28'	20.00'	N44°47'02"W

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
EHM PROJECT #: 351-21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:
C.2
MASTER UTILITY OVERALL

PROFESSIONAL ENGINEER
LICENSED
14924
STATE OF IDAHO
DAVID L. THIBAULT

EHM Engineers, Inc.
BUILDING THE FUTURE ON A FOUNDATION OF EXCELLENCE
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621 North College Road, Suite 100 Twin Falls, Idaho 83301
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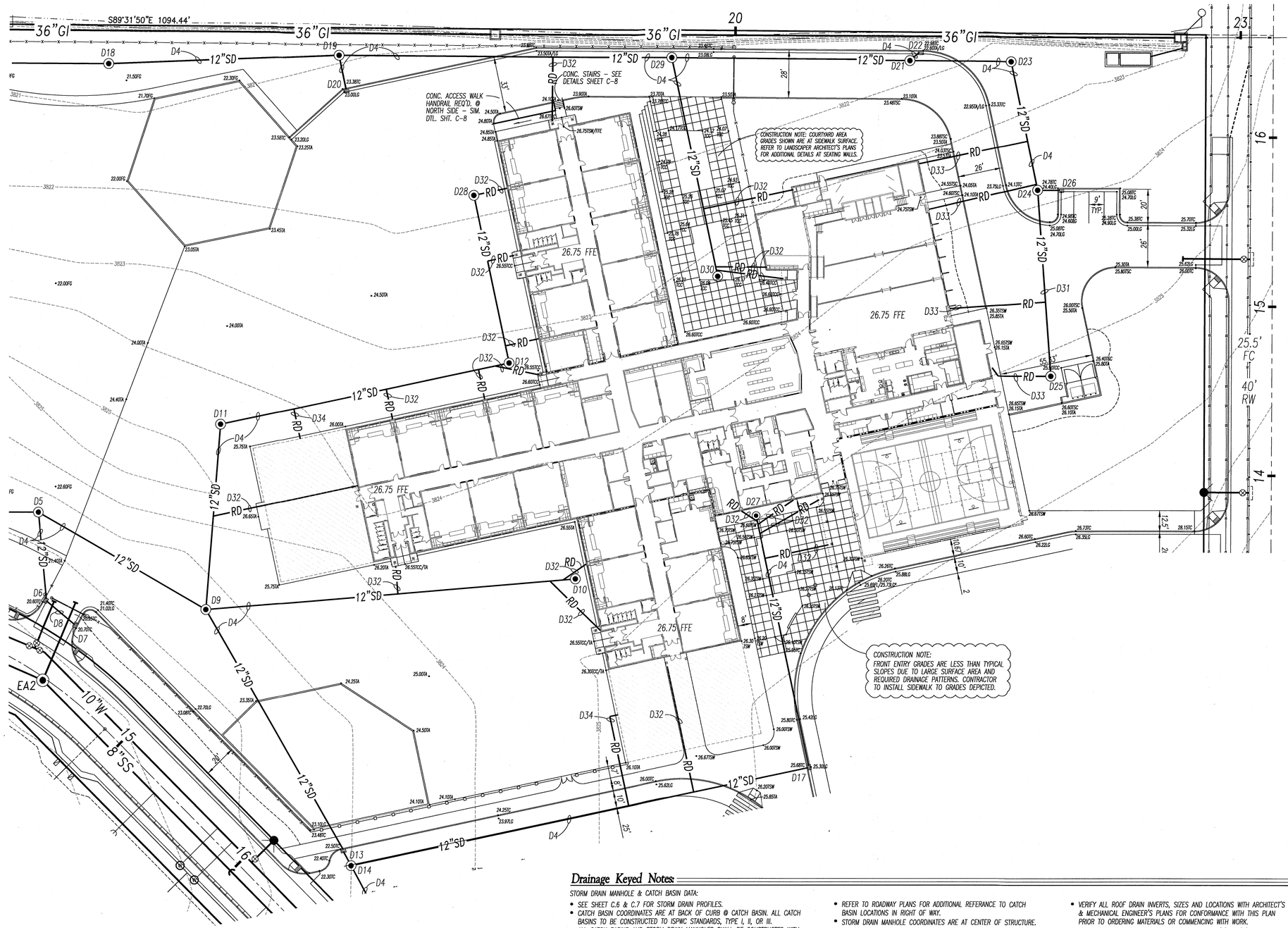

Layout Notes:

ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF CONCRETE, OR LIP OF GUTTER OR AS NOTED.

CONSTRUCTION AND STAKING OF ASPHALT GRADES IN RELATION TO CURB GRADES ARE AS FOLLOWS:
TOP OF ASPHALT TO TOP OF VERTICAL CURB & GUTTER = 0.38'
TOP OF ASPHALT TO TOP OF STAND–UP CURB = 0.50' MAX.
LIP OF GUTTER TO FLOWLINE = VARIES PER CURB TYPE

WARPING OF CONCRETE THAT TIES IN AT DIFFERING REVEALS WILL BE NECESSARY AT CONNECTING POINTS.

SIDEWALK TO BE INSTALLED PER PLAN GRADES WHERE SHOWN. ALL OTHER SIDEWALKS TO BE INSTALLED WITH NO MORE THAN 1:50 SLOPE IN ANY DIRECTION TO MAINTAIN ACCESSIBILITY.

CURB AND GUTTER WITHIN CITY RIGHTS OF WAY SHALL BE VERT. CURB TO CITY OF JEROME AND ISPWC STANDARDS. CURB TYPES WITHIN THE INTERIOR BOUNDARY OF THIS SITE SHALL BE CONST. TO CONFORM TO THE SECTIONS DEPICTED WITH MODIFICATION AS REQ'D. AT RAMPS TO CONFORM WITH ACCESSIBILITY REQUIREMENTS. SLOPES FROM LIP OF GUTTER TO FLOWLINES AT RAMP LOCATIONS SHALL BE MODIFIED TO NOT EXCEED 3% FROM LIP TO FLOWLINE. CONTRACTOR TO LOWER THE LIP AND NOT ADJUST FLOWLINE.

Accessibility Requirements:

ALL CONSTRUCTION SHALL COMPLY WITH ACCESSIBILITY STANDARDS PER: THE 2018 INTERNATIONAL BUILDING CODE (IBC), THE FAIR HOUSING ACT, THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS), AND THE AMERICAN'S WITH DISABILITIES ACT, AS APPLICABLE.

MAXIMUM ALLOWABLE SLOPES AT LANDING AREAS AND CROSS SLOPES SHALL BE CONSTRUCTED SO AS NOT TO EXCEED 1.9% IN ANY DIRECTION. RUNNING SLOPES FROM LANDING AREA TO LANDING AREA SHALL NOT EXCEED 4.9%. FOR THE PURPOSES OF SLOPES DEPICTED ON THESE PLANS AS 1:50 SHALL BE INTERPRETED AS 1.9% MAX. SLOPES DEPICTED AS 1:20 SHALL BE INTERPRETED AS 4.9% MAX.

Curb/Sidewalk Key:

(A) INSTALL VERTICAL CURB TO ISPWC STD. DWG. SD–701 SEE DETAIL SHEET C.8.

(B) INSTALL STAND–UP CURB. SEE DETAIL SHEET C.8.

(C) INSTALL THICKENED EDGE SIDEWALK ADJACENT TO TRAFFIC WAYS SEE DETAIL SHEET C.

(D) INSTALL STANDARD SIDEWALK PER DETAIL SHEET C.8.

NOTE: PROVIDE A 2' TRANSITION FROM VERTICAL CURB TO STAND–UP CURB AT ALL TRANSITIONS. MAINTAIN A CONSISTENT FLOWLINE GRADE THROUGH ALL TRANSITIONS.

Elevation Key:

PROPOSED TOP OF ASPHALT	• 00.00TA
PROPOSED EDGE OF ASPHALT	• 00.00EA
PROPOSED TOP OF GRAVEL	• 00.00TG
PROPOSED EDGE OF GRAVEL	• 00.00EG
PROPOSED TOP OF SIDEWALK	• 00.00TSW
PROPOSED TOP OF CONCRETE	• 00.00TCC
PROPOSED TOP OF VERT. CURB	• 00.00TC
PROPOSED TOP OF STAND–UP CURB	• 00.00TSC
PROPOSED LIP OF GUTTER	• 00.00LG
PROPOSED FINISHED GRADE	• 00.00FG

CONSTRUCTION NOTE:
VERIFY FINAL BUILDING FOOTPRINT WITH STRUCTURAL FOUNDATION PLAN PRIOR TO STAKING BUILDING.

Drainage Keyed Notes:

STORM DRAIN MANHOLE & CATCH BASIN DATA:

- SEE SHEET C.6 & C.7 FOR STORM DRAIN PROFILES.
- CATCH BASIN COORDINATES ARE AT BACK OF CURB @ CATCH BASIN. ALL CATCH BASINS TO BE CONSTRUCTED TO ISPWC STANDARDS, TYPE I, II, OR III.
- ALL CATCH BASINS AND STORM DRAIN MANHOLES SHALL BE CONSTRUCTED WITH A 12" SEDIMENT TRAP BELOW THE LOWEST INVERT.
- REFER TO ROADWAY PLANS FOR ADDITIONAL REFERANCE TO CATCH BASIN LOCATIONS IN RIGHT OF WAY.
- STORM DRAIN MANHOLE COORDINATES ARE AT CENTER OF STRUCTURE.
- VERIFY ALL ROOF DRAIN INVERTS, SIZES AND LOCATIONS WITH ARCHITECT'S & MECHANICAL ENGINEER'S PLANS FOR CONFORMANCE WITH THIS PLAN PRIOR TO ORDERING MATERIALS OR COMMENCING WITH WORK.
- ALL ROOF DRAIN TAPS TO MAINLINES TO BE TYPE 'A' OR 'C' CONNECTIONS IF ACHIEVABLE PER ISPWC STD. DWG. SD–511 (INVERT AT MID–MAINLINE).

KEY	LOCATION (PER PROJ. CTRL.)	CONSTRUCTION DESCRIPTION:
D1	N484460.61 E1604722.74	INSTALL STORM DRAIN MANHOLE – RIM = 3816.00 / INV. 3813.00 / GRATED LID REQUIRED
D2	IN LOCATION SHOWN	INSTALL 12" PERFORATED PIPE AT CONTINUOUS FLOWLINE EL. OF 3813.00 (TRANSITION FROM SOLID WALL PIPE FROM MANHOLES TO A TRANSITION POINT OF 4' INTO DRYWELL TO PERF. PIPE).
D3	N484195.61 E1604721.32	INSTALL STORM DRAIN MANHOLE – RIM = 3816.00 / INV. = 3813.00 / GRATED LID REQUIRED.
D4	IN LOCATION SHOWN	INSTALL 12" PVC ASTM 3034 – SDR 35 STORM DRAIN AT SLOPES SHOWN ON PROFILE SHEETS.
D5	N484193.68 E1605081.31	INSTALL STORM DRAIN MANHOLE – RIM = 3822.40 / INV. = 3815.80
D6	N484141.98 E1605084.59	INSTALL CATCH BASIN – TOP OF CURB EL. = 3820.60 / INV. = 3816.06
D7	N484126.20 E1605104.58	INSTALL CATCH BASIN – TOP OF CURB EL. = 3820.70 / INV. = 3816.30
D8	IN LOCATION SHOWN	INSTALL 12" C–900 STORM DRAIN TO INVERT ELEV'S. NOTED.
D9	N484135.93 E1605180.76	INSTALL STORM DRAIN MANHOLE – RIM = 3823.70 / INV. = 3817.10
D10	N484154.05 E1605400.01	INSTALL STORM DRAIN MANHOLE – RIM = 3826.00 / INV. = 3821.50 / GRATED LID REQUIRED.
D11	N484245.59 E1605189.40	INSTALL STORM DRAIN MANHOLE – RIM = 3825.40 / INV. = 3819.30
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D14	N483984.54 E1605267.03	INSTALL STORM DRAIN MANHOLE – RIM = 3822.20 / INV. = 3818.02
D15	N483959.55 E1605280.99	INSTALL CATCH BASIN – TOP OF CURB EL. = 3822.84 / INV. = 3818.30
D16	N483948.25 E1605299.46	INSTALL CATCH BASIN – TOP OF CURB EL. = 3823.08 / INV. = 3818.55
D17	N484042.05 E1605537.63	INSTALL CATCH BASIN – TOP OF CURB EL. = 3825.68 / INV. = 3821.60
D18	N484458.46 E1605122.74	INSTALL STORM DRAIN MANHOLE – RIM = 3821.00 / INV. = 3816.00

KEY	LOCATION (PER PROJ. CTRL.)	CONSTRUCTION DESCRIPTION:
D19	N484463.78 E1605259.31	INSTALL STORM DRAIN MANHOLE – RIM = 3822.00 / E. & W. INV. = 3816.68 S. INV. = 3618.00
D20	N484444.26 E1605263.32	INSTALL CATCH BASIN – TOP OF CURB EL. = 3823.38 / INV. = 3818.50
D21	N484460.48 E1605598.29	INSTALL STORM DRAIN MANHOLE – RIM = 3822.70 / E. & W. INV. = 3818.04 NE. INV. = 19.10
D22	N484466.42 E1605604.65	INSTALL CATCH BASIN – TOP OF CURB EL. = 3822.98 / INV. = 3819.20
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D24	N484384.09 E1605674.08	INSTALL STORM DRAIN MANHOLE – RIM = 3824.80 / INV. = 3818.73
D25	N484274.01 E1605682.01	INSTALL STORM DRAIN MANHOLE – RIM = 3825.95 / INV. = 3819.28
D26	N484385.29 E1605688.09	INSTALL CATCH BASIN – TOP OF CURB EL. = 3824.78 / INV. = 3819.00
D27	N484191.32 E1605507.18	INSTALL STORM DRAIN MANHOLE – RIM = 3826.50 / INV. = 3822.21 GRATED LID REQUIRED.
D28	N484381.09 E1605339.53	INSTALL STORM DRAIN MANHOLE – RIM = 3825.20 / INV. = 3820.69
D29	N484462.15 E1605456.80	INSTALL STORM DRAIN MANHOLE – RIM = 3823.24 / E. & W. INV. = 3817.47 S. INV. = 18.47
D30	N484333.03 E1605484.25	INSTALL STORM DRAIN MANHOLE – RIM = 3826.10 / INV. = 3819.13
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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #:
EHM PROJECT #: 351–21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:

C.3

GRADING & DRAINAGE PLAN – NORTH

PROFESSIONAL ENGINEER
LICENSED
14924
2/11/2022
STATE OF IDAHO
DAVID L. THIBAULT

EHM Engineers, Inc.
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PROPOSED LIP OF GUTTER	00.00LG
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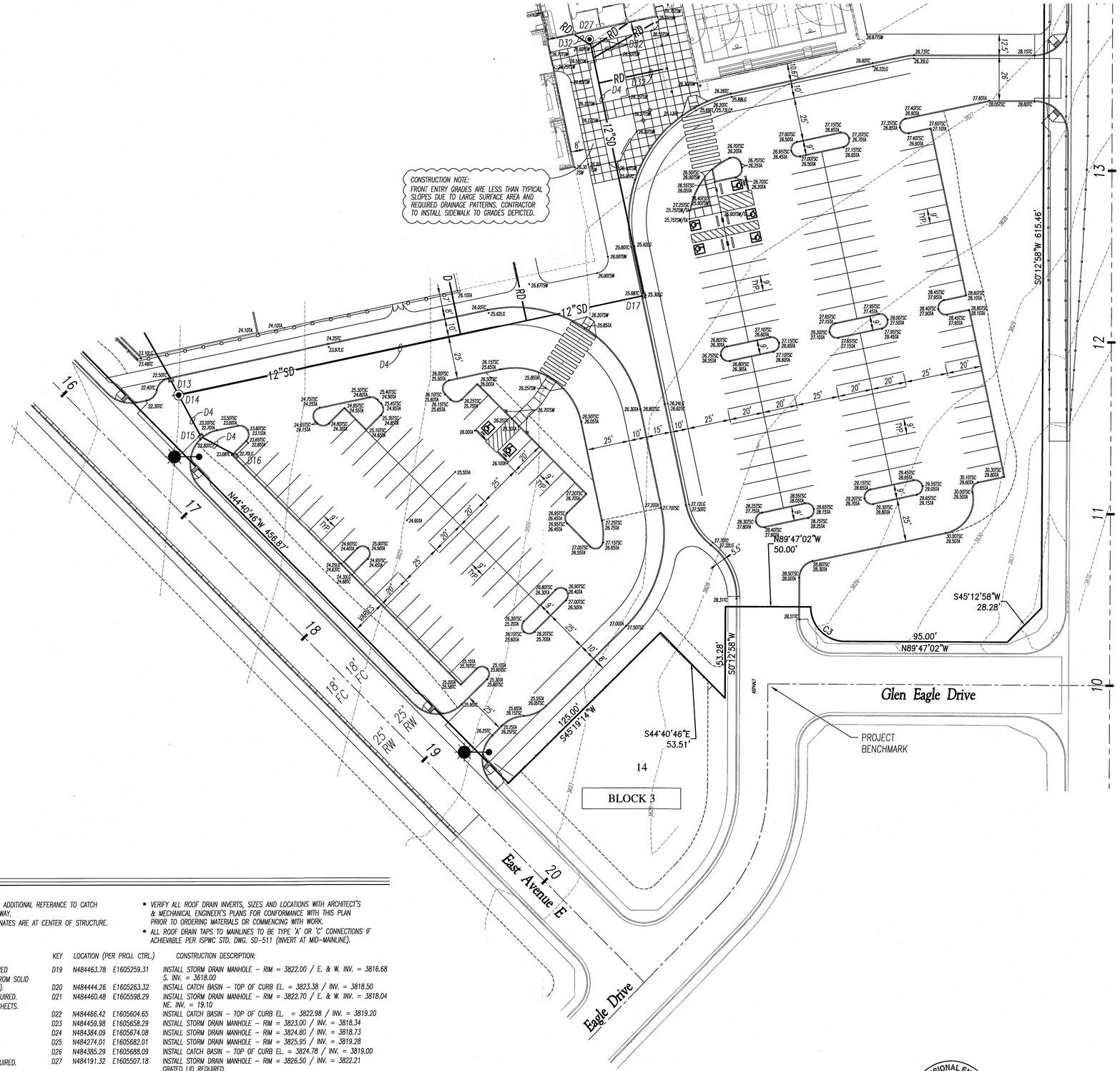
CONSTRUCTION NOTE:
VERIFY FINAL BUILDING FOOTPRINT WITH STRUCTURAL FOUNDATION PLAN PRIOR TO STAKING BUILDING.

CONSTRUCTION NOTE:
FRONT ENTRY GRADES ARE LESS THAN TYPICAL SLOPES DUE TO LARGE SURFACE AREA AND REQUIRED DRAINAGE PATTERNS. CONTRACTOR TO INSTALL SIDEWALK TO GRADES DEPICTED.



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PROFESSIONAL ENGINEER
LICENSED
14924
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STATE OF IDAHO
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Jerome Elementary School
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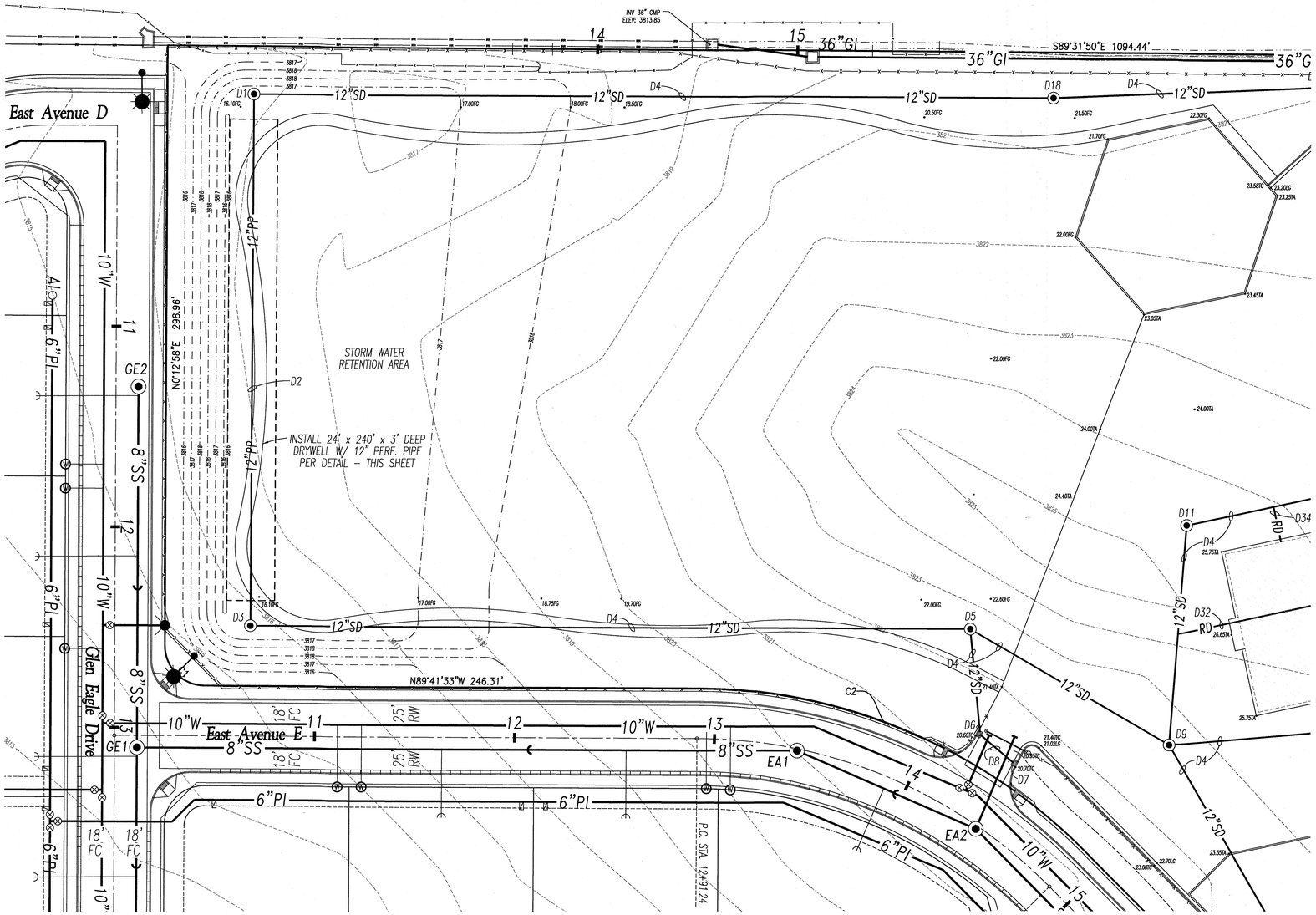
DATE: 2/11/2022
LKV PROJECT #: EHM PROJECT #: 351-21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:
C.4
GRADING & DRAINAGE PLAN – SOUTH



Retention Calculations:

RETENTION VALUES AND CALCULATIONS:
SCHOOL SITE TOTAL AREA: 532,560 S.F.
IMPERVIOUS AREA TOTALS:
298,255 SF x 1.8/12 x 0.95 = 42,501 CF
LANDSCAPE AREA TOTALS:
234,305 x 1.8/12 x 0.25 = 8,786 CF
TOTAL RETENTION REQUIRED = 51,287 CF

RETENTION PROVIDED:
BASIN: (LOWER PARKING LOT)
44,659 SF x 1' AVG. DEPTH = 44,659 CF
BASIN: FULL 2' DEPTH = 469 CF
DRYWELL CAPACITY:
240'x24'x3' DEPTH x 0.40 = 6,912 CF
TOTAL RETENTION REQUIRED = 52,040 CF

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CURB AND GUTTER WITHIN CITY RIGHTS OF WAY SHALL BE VERT. CURB TO CITY OF JEROME AND ISPWC STANDARDS. CURB TYPES WITHIN THE INTERIOR BOUNDARY OF THIS SITE SHALL BE CONST. TO CONFORM TO THE SECTIONS DEPICTED WITH MODIFICATION AS REQ'D. AT RAMPS TO CONFORM WITH ACCESSIBILITY REQUIREMENTS. SLOPES FROM LIP OF GUTTER TO FLOWLINES AT RAMP LOCATIONS SHALL BE MODIFIED TO NOT EXCEED 3% FROM LIP TO FLOWLINE. CONTRACTOR TO LOWER THE LIP AND NOT ADJUST FLOWLINE.

Accessibility Requirements:

ALL CONSTRUCTION SHALL COMPLY WITH ACCESSIBILITY STANDARDS PER: THE 2018 INTERNATIONAL BUILDING CODE (IBC), THE FAIR HOUSING ACT, THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS), AND THE AMERICAN'S WITH DISABILITIES ACT, AS APPLICABLE.

MAXIMUM ALLOWABLE SLOPES AT LANDING AREAS AND CROSS SLOPES SHALL BE CONSTRUCTED SO AS NOT TO EXCEED 1.9% IN ANY DIRECTION. RUNNING SLOPES FROM LANDING AREA TO LANDING AREA SHALL NOT EXCEED 4.9%. FOR THE PURPOSES OF SLOPES DEPICTED ON THESE PLANS AS 1:50 SHALL BE INTERPRETED AS 1.9% MAX. SLOPES DEPICTED AS 1:20 SHALL BE INTERPRETED AS 4.9% MAX.

Curb/Sidewalk Key:

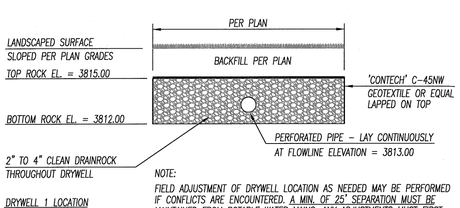
- (A) INSTALL VERTICAL CURB TO ISPWC STD. DWG. SD-701 SEE DETAIL SHEET C.8.
- (B) INSTALL STAND-UP CURB. SEE DETAIL SHEET C.8.
- (C) INSTALL THICKENED EDGE SIDEWALK ADJACENT TO TRAFFIC WAYS SEE DETAIL SHEET C.
- (D) INSTALL STANDARD SIDEWALK PER DETAIL SHEET C.8.

NOTE: PROVIDE A 2' TRANSITION FROM VERTICAL CURB TO STAND-UP CURB AT ALL TRANSITIONS. MAINTAIN A CONSISTENT FLOWLINE GRADE THROUGH ALL TRANSITIONS.

Elevation Key:

PROPOSED TOP OF ASPHALT	00.00TA
PROPOSED EDGE OF ASPHALT	00.00EA
PROPOSED TOP OF GRAVEL	00.00TG
PROPOSED EDGE OF GRAVEL	00.00EG
PROPOSED TOP OF SIDEWALK	00.00TSW
PROPOSED TOP OF CONCRETE	00.00TC
PROPOSED TOP OF VERT. CURB	00.00TC
PROPOSED TOP OF STAND-UP CURB	00.00TSC
PROPOSED LIP OF GUTTER	00.00LG
PROPOSED FINISHED GRADE	00.00FG

CONSTRUCTION NOTE:
VERIFY FINAL BUILDING FOOTPRINT WITH STRUCTURAL FOUNDATION PLAN PRIOR TO STAKING BUILDING.



NOTE:
FIELD ADJUSTMENT OF DRYWELL LOCATION AS NEEDED MAY BE PERFORMED IF CONFLICTS ARE ENCOUNTERED. A MIN. OF 25' SEPARATION MUST BE MAINTAINED FROM POTABLE WATER MAINS. ANY ADJUSTMENTS MUST FIRST BE APPROVED IN WRITING BY THE ENGINEER.

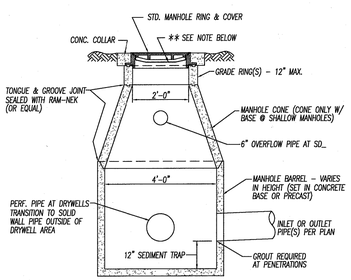
CATCH BASIN AND MANHOLES TO BE INSTALLED PER ISPWC STANDARDS. ON-SITE STORM DRAIN MANHOLES SHALL BE INSTALLED WITHOUT STEPS.

DRYWELL 1 LOCATION

N484448.18	E1604710.67
N484448.05	E1604734.67
N484208.05	E1604733.39
N484208.18	E1604709.39

Drywell / Retention Details

n.t.s.



* GRATED LID TO ACT AS CATCH BASIN AT MANHOLES NOTED ON PLANS.

** ALL STRUCTURES WITH A GRATED LID SHALL INCLUDE A SCREEN UNDER THE LID WITH FILTER FABRIC TO ALLEVIATE DEBRIS AND SEDIMENTS FROM ENTERING THE SYSTEM. REGULAR MAINTENANCE IS REQUIRED FOR THESE STRUCTURES INTENDED TO ACT AS CATCH BASINS.

Storm Drain Manhole Detail

n.t.s.

Drainage Keyed Notes

STORM DRAIN MANHOLE & CATCH BASIN DATA:

- *SEE SHEET C.6 & C.7 FOR STORM DRAIN PROFILES.*
- *CATCH BASIN COORDINATES ARE AT BACK OF CURB @ CATCH BASIN. ALL CATCH BASINS TO BE CONSTRUCTED TO ISPWC STANDARDS, TYPE I, II, OR III.*
- *ALL CATCH BASINS AND STORM DRAIN MANHOLES SHALL BE CONSTRUCTED WITH A 12" SEDIMENT TRAP BELOW THE LOWEST INVERT.*
- *REFER TO ROADWAY PLANS FOR ADDITIONAL REFERANCE TO CATCH BASIN LOCATIONS IN RIGHT OF WAY.*
- *STORM DRAIN MANHOLE COORDINATES ARE AT CENTER OF STRUCTURE.*
- *VERIFY ALL ROOF DRAIN INVERTS, SIZES AND LOCATIONS WITH ARCHITECT'S & MECHANICAL ENGINEER'S PLANS FOR CONFORMANCE WITH THIS PLAN PRIOR TO ORDERING MATERIALS OR COMMENCING WITH WORK.*
- *ALL ROOF DRAIN TAPS TO MAINLINES TO BE TYPE 'A' OR 'C' CONNECTIONS IF ACHIEVABLE PER ISPWC STD. DWG. SD-511 (INVERT AT MID-MAINLINE).*

KEY	LOCATION (PER PROJ. CTRL.)		CONSTRUCTION DESCRIPTION:
D1	N484460.61	E1604722.74	INSTALL STORM DRAIN MANHOLE – RIM = 3816.00 / INV. 3813.00 / GRATED LID REQUIRED
D2	IN LOCATION SHOWN		INSTALL 12" PERFORATED PIPE AT CONTINUOUS FLOWLINE EL. OF 3813.00 (TRANSITION FROM SOLID WALL PIPE FROM MANHOLES TO A TRANSITION POINT OF 4' INTO DRYWELL TO PERF. PIPE).
D3	N484195.61	E1604721.32	INSTALL STORM DRAIN MANHOLE – RIM = 3816.00 / INV. = 3813.00 / GRATED LID REQUIRED.
D4	IN LOCATION SHOWN		INSTALL 12" PVC ASTM 3034 – SDR 35 STORM DRAIN AT SLOPES SHOWN ON PROFILE SHEETS.
D5	N484193.68	E1605081.31	INSTALL STORM DRAIN MANHOLE – RIM = 3822.40 / INV. = 3815.80
D6	N484141.98	E1605084.59	INSTALL CATCH BASIN – TOP OF CURB EL. = 3820.60 / INV. = 3816.06
D7	N484126.20	E1605104.58	INSTALL CATCH BASIN – TOP OF CURB EL. = 3820.70 / INV. = 3816.30
D8	IN LOCATION SHOWN		INSTALL 12" C-900 STORM DRAIN TO INVERT ELEV'S. NOTED.
D9	N484135.93	E1605180.76	INSTALL STORM DRAIN MANHOLE – RIM = 3823.70 / INV. = 3817.10
D10	N484154.05	E1605400.01	INSTALL STORM DRAIN MANHOLE – RIM = 3826.00 / INV. = 3821.50 / GRATED LID REQUIRED.
D11	N484245.59	E1605189.40	INSTALL STORM DRAIN MANHOLE – RIM = 3825.40 / INV. = 3819.30
D12	N484281.93	E1605360.59	INSTALL STORM DRAIN MANHOLE – RIM = 3826.30 / INV. = 3820.18
D13	N483994.26	E1605262.26	INSTALL CATCH BASIN – TOP OF CURB EL. = 3822.50 / INV. = 3817.92
D14	N483984.54	E1605267.03	INSTALL STORM DRAIN MANHOLE – RIM = 3822.20 / INV. = 3818.02
D15	N483959.55	E1605280.99	INSTALL CATCH BASIN – TOP OF CURB EL. = 3822.84 / INV. = 3818.30
D16	N483948.25	E1605299.46	INSTALL CATCH BASIN – TOP OF CURB EL. = 3823.08 / INV. = 3818.55
D17	N484042.05	E1605537.63	INSTALL CATCH BASIN – TOP OF CURB EL. = 3825.68 / INV. = 3821.60
D18	N484458.46	E1605122.74	INSTALL STORM DRAIN MANHOLE – RIM = 3821.00 / INV. = 3816.00

KEY	LOCATION (PER PROJ. CTRL.)		CONSTRUCTION DESCRIPTION:
D19	N484463.78	E1605259.31	INSTALL STORM DRAIN MANHOLE – RIM = 3822.00 / E. & W. INV. = 3816.68 S. INV. = 3618.00
D20	N484444.26	E1605263.32	INSTALL CATCH BASIN – TOP OF CURB EL. = 3823.38 / INV. = 3818.50
D21	N484460.48	E1605598.29	INSTALL STORM DRAIN MANHOLE – RIM = 3822.70 / E. & W. INV. = 3818.04 NE. INV. = 19.10
D22	N484466.42	E1605604.65	INSTALL CATCH BASIN – TOP OF CURB EL. = 3822.98 / INV. = 3819.20
D23	N484459.98	E1605658.29	INSTALL STORM DRAIN MANHOLE – RIM = 3823.00 / INV. = 3818.34
D24	N484384.09	E1605674.08	INSTALL STORM DRAIN MANHOLE – RIM = 3824.80 / INV. = 3818.73
D25	N484274.01	E1605682.01	INSTALL STORM DRAIN MANHOLE – RIM = 3825.95 / INV. = 3819.28
D26	N484385.29	E1605688.09	INSTALL CATCH BASIN – TOP OF CURB EL. = 3824.78 / INV. = 3819.00
D27	N484191.32	E1605507.18	INSTALL STORM DRAIN MANHOLE – RIM = 3826.50 / INV. = 3822.21 GRATED LID REQUIRED.
D28	N484381.09	E1605339.53	INSTALL STORM DRAIN MANHOLE – RIM = 3825.20 / INV. = 3820.69
D29	N484462.15	E1605456.80	INSTALL STORM DRAIN MANHOLE – RIM = 3823.24 / E. & W. INV. = 3817.47 S. INV. = 18.47
D30	N484333.03	E1605484.25	INSTALL STORM DRAIN MANHOLE – RIM = 3826.10 / INV. = 3819.13
D31	IN LOCATION SHOWN		INSTALL 12" C-900 STORM DRAIN AT SLOPES SHOWN.
D32	IN LOCATION SHOWN		INSTALL PVC ASTM 3034 – SDR ROOF DRAIN – SIZE PER MECH. PLANS.
D33	IN LOCATION SHOWN		INSTALL C-900 ROOF DRAIN – SIZE PER MECH. PLANS.
D34	IN LOCATION SHOWN		INSTALL PVC ASTM 3034 – SDR ROOF DRAIN STUB – SIZE PER ARCH. PLANS. (STUB WITHIN 4' OF BUILDING LINE FOR POSSIBLE FUTURE CONNECTION).

LKV ARCHITECTS
2400 E. Riverwalk Drive
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208.336.3443

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: EHM PROJECT #: 351-21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:
C.5
GRADING & DRAINAGE PLAN – WEST

PROFESSIONAL ENGINEER
LICENSED
14924
2/11/2022
STATE OF IDAHO
DAVID L. THIBAULT

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621 North College Road, Suite 100 Twin Falls, Idaho 83301
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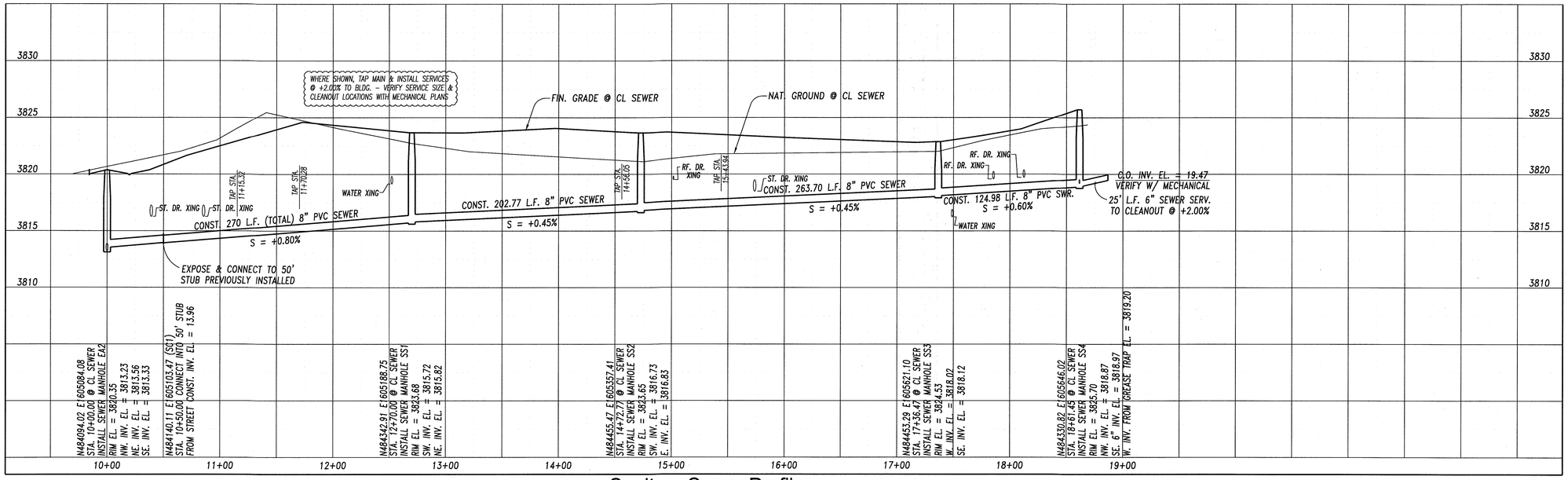
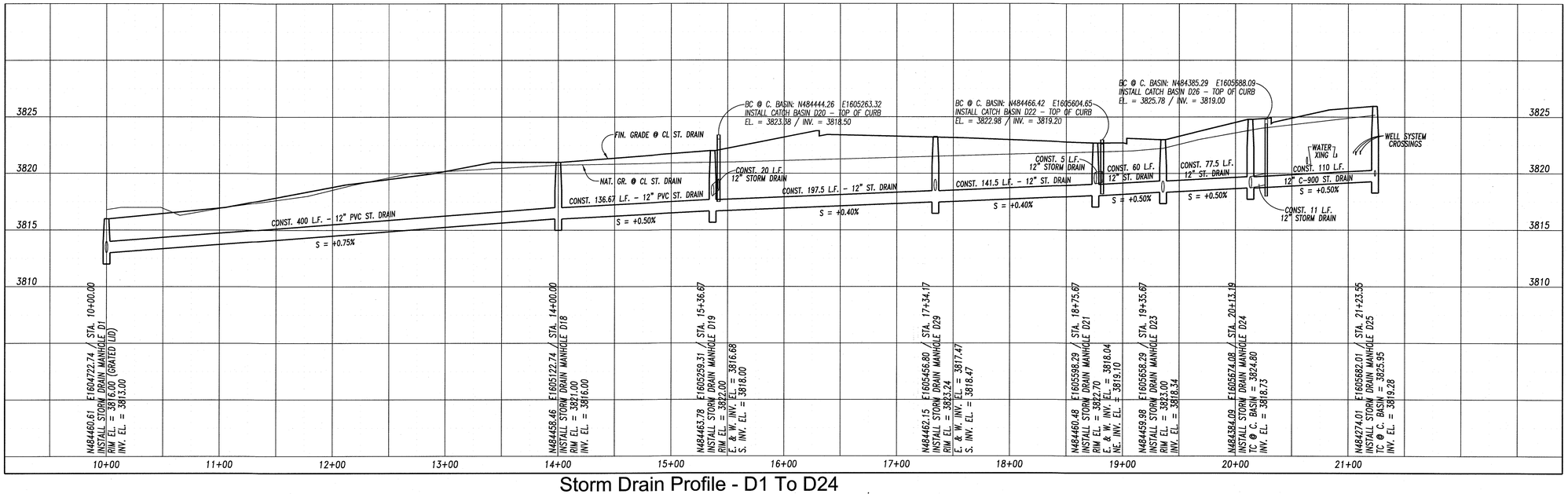


Sanitary Sewer Profile



Storm Drain Profile - D1 To D24

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #:
EHM PROJECT #: 351-21

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DRAWING NO.:
C.6
MISC. PROFILES

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14924
2/11/2022
STATE OF IDAHO
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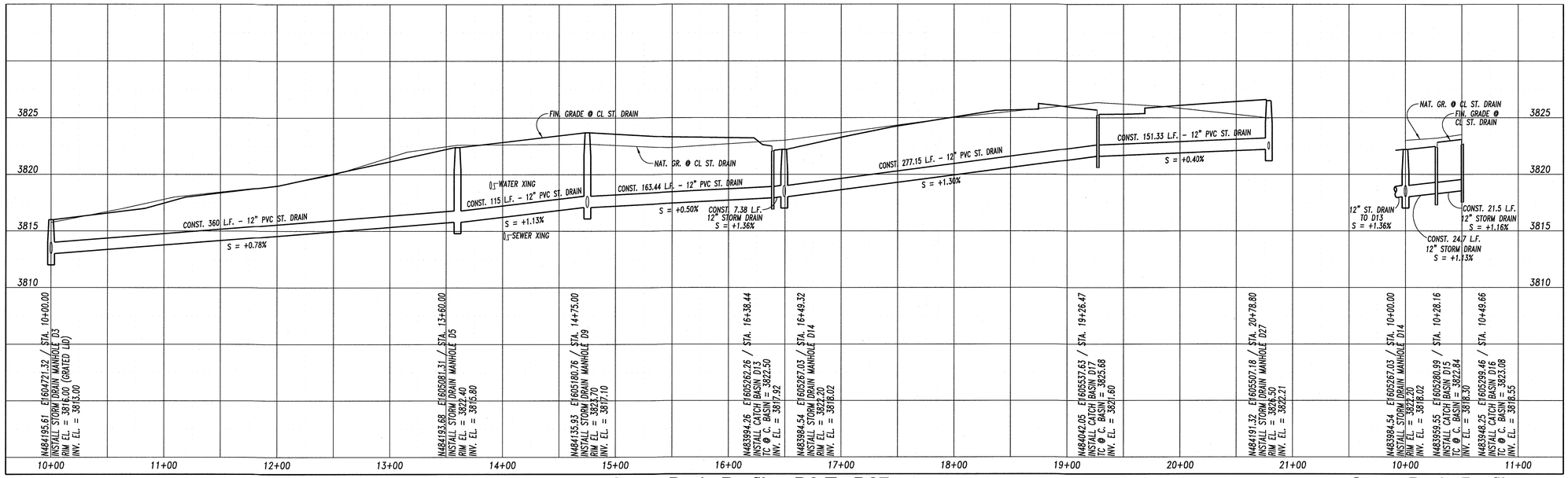
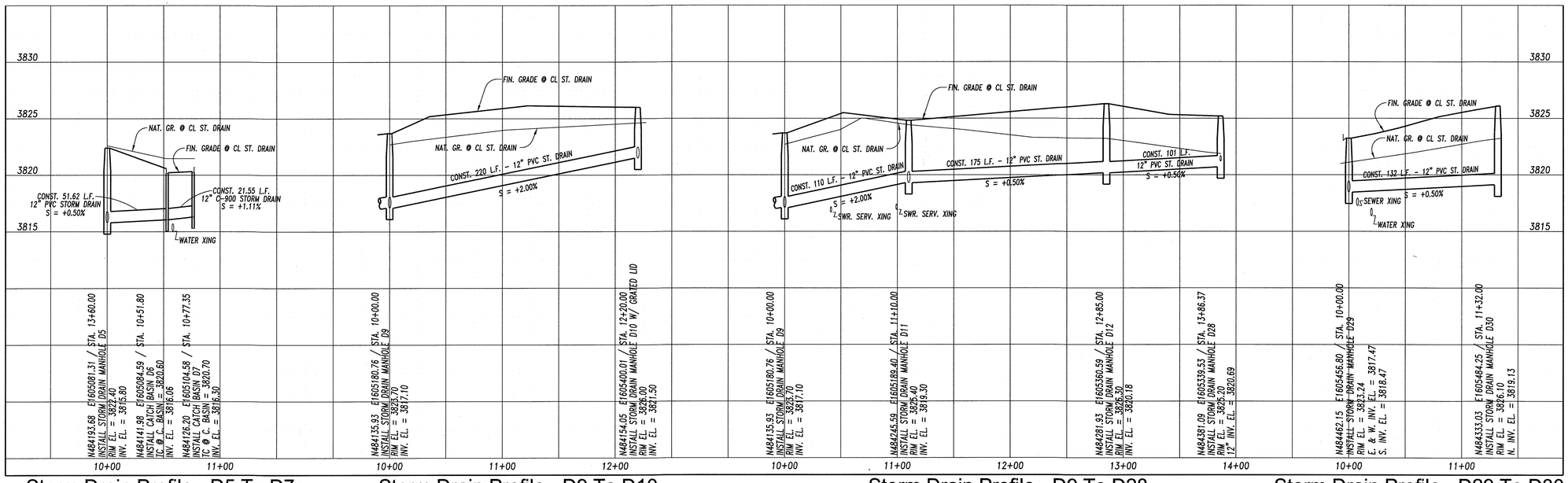


Storm Drain Profile - D3 To D27

Storm Drain Profile
D14 To D16



Storm Drain Profile - D5 To D7 | Storm Drain Profile - D9 To D10 | Storm Drain Profile - D9 To D28 | Storm Drain Profile - D29 To D30

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Jerome School District No. 261
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LKV PROJECT #:
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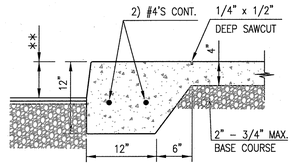
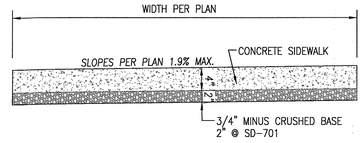
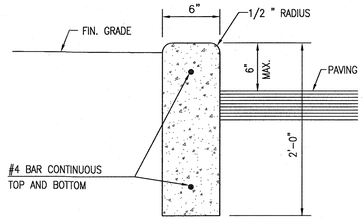


** MAXIMUM ALLOWABLE AS PER SITE PLAN. SEE SITE PLAN FOR AREAS WITH NO REVEAL FOR ACCESSIBILITY AND BUS LOADING AREAS. NO MORE THAN 6" REVEAL IN ANY LOCATION.

Thickened Edge Sidewalk
Typical Section At Parking Lot — n.t.s.

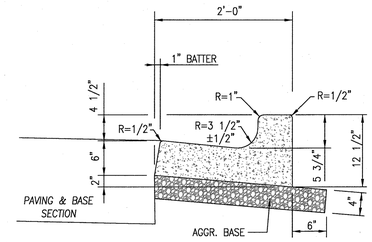


Sidewalk Detail
Typical Section Interior to Site — n.t.s.

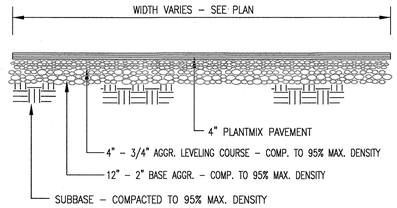


NOTES:
1. PROVIDE EXPANSION JOINTS AT 25' O.C. MAX. AND AT CURVES, TANGENTS, AND CORNERS.
2. BASE OF CURB TO REST ON COMPACTED FILL.
3. SACK FINISH EXPOSED SURFACES.

Stand-up Curb Detail
n.t.s.

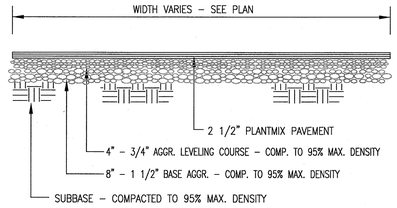


6" Vert. Curb & Gutter Detail
CURB REF: I.S.P.W.C. STD. DWG. SD-701 — n.t.s.



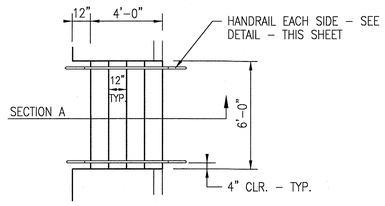
NOTES: SUBBASE MATERIAL TO BE APPROVED BY THE ENGINEER PRIOR TO BASE AGGREGATE AND ASPHALT PLACEMENT.
3/4" AGGREGATE MAY BE SUBSTITUTED FOR 1 1/2" AGGREGATE.

Typ. Paving Section
@ BUS LANE AND ADJACENT DRIVE AISLE — n.t.s.

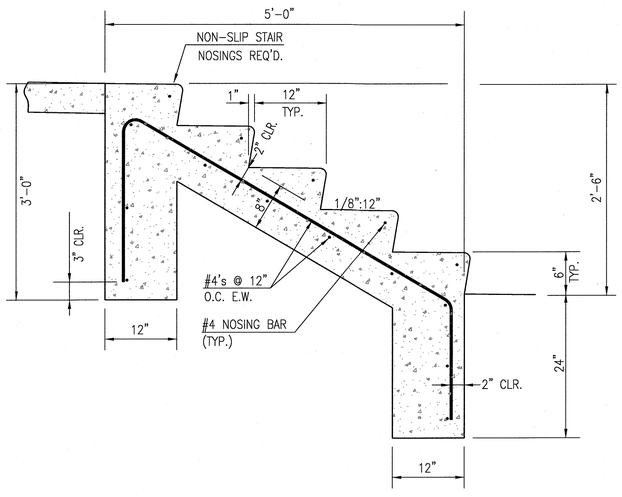


NOTES: SUBBASE MATERIAL TO BE APPROVED BY THE ENGINEER PRIOR TO BASE AGGREGATE AND ASPHALT PLACEMENT.
3/4" AGGREGATE MAY BE SUBSTITUTED FOR 1 1/2" AGGREGATE.

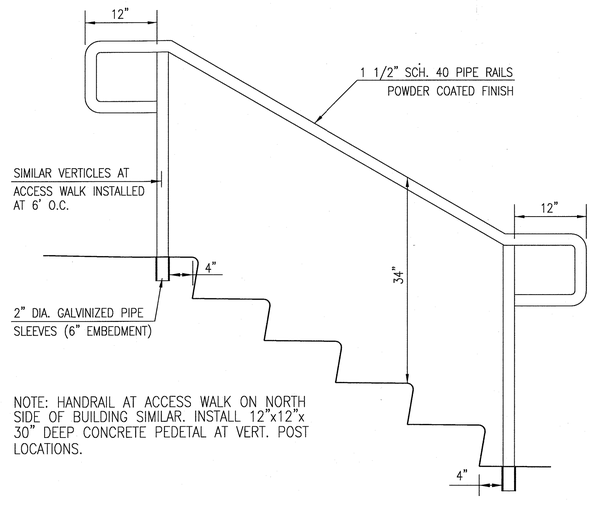
Typ. Paving Section
VEHICLE PARKING LOT AND DRIVE AISLES — n.t.s.



North Access Stairs - Plan View
n.t.s.



Concrete Stairs - Section A
n.t.s.



NOTE: HANDRAIL AT ACCESS WALK ON NORTH SIDE OF BUILDING SIMILAR. INSTALL 12"x12"x 30" DEEP CONCRETE PEDETAL AT VERT. POST LOCATIONS.

Handrail Detail
n.t.s.

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Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
EHM PROJECT #: 351-21

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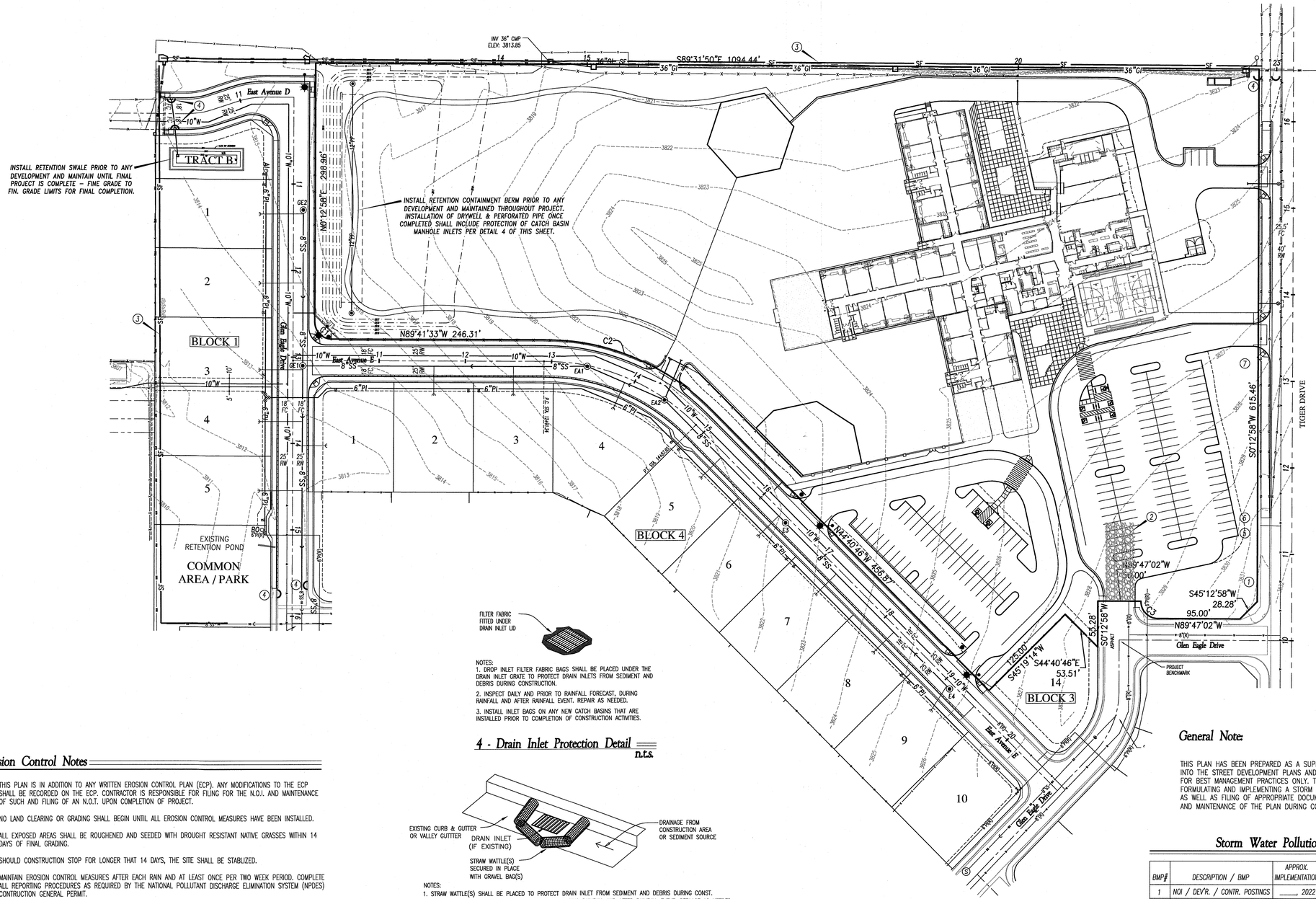
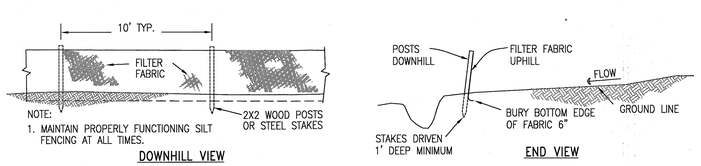


NOTES:
1. DROP INLET FILTER FABRIC BAGS SHALL BE PLACED UNDER THE DRAIN INLET GRATE TO PROTECT DRAIN INLETS FROM SEDIMENT AND DEBRIS DURING CONSTRUCTION.
2. INSPECT DAILY AND PRIOR TO RAINFALL FORECAST, DURING RAINFALL AND AFTER RAINFALL EVENT. REPAIR AS NEEDED.
3. INSTALL INLET BAGS ON ANY NEW CATCH BASINS THAT ARE INSTALLED PRIOR TO COMPLETION OF CONSTRUCTION ACTIVITIES.

4 - Drain Inlet Protection Detail
n.t.s.

NOTES:
1. STRAW WATTLE(S) SHALL BE PLACED TO PROTECT DRAIN INLET FROM SEDIMENT AND DEBRIS DURING CONST.
2. INSPECT DAILY AND PRIOR TO RAINFALL FORECAST, DURING RAINFALL AND AFTER RAINFALL EVENT. REPLACE AS NEEDED.
3. STRAW WATTLES SHALL BE HELD IN PLACE WITH GRAVEL BAGS WITH NO GAPS AT THE INTERFACE WITH THE GUTTER.
4. GRAVEL BAGS SHOULD BE BURLAP BAGS LOOSELY FILLED WITH WELL GRADED SANDY GRAVEL MIXTURE WITH UNDER 1" ROCK AND LESS THAN 2% PASSING THE #200 SIEVE.

4 - Straw Wattle Detail
n.t.s.



3 - Silt Fence Detail
n.t.s.

Erosion Control Notes

1. THIS PLAN IS IN ADDITION TO ANY WRITTEN EROSION CONTROL PLAN (ECP). ANY MODIFICATIONS TO THE ECP SHALL BE RECORDED ON THE ECP. CONTRACTOR IS RESPONSIBLE FOR FILING FOR THE N.O.I. AND MAINTENANCE OF SUCH AND FILING OF AN N.O.T. UPON COMPLETION OF PROJECT.
2. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. ALL EXPOSED AREAS SHALL BE ROUGHENED AND SEEDED WITH DROUGHT RESISTANT NATIVE GRASSES WITHIN 14 DAYS OF FINAL GRADING.
4. SHOULD CONSTRUCTION STOP FOR LONGER THAT 14 DAYS, THE SITE SHALL BE STABLIZED.
5. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE PER TWO WEEK PERIOD. COMPLETE ALL REPORTING PROCEDURES AS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONTRUCTION GENERAL PERMIT.
6. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL AND SEDIMENT FROM LEAVING THE SITE.
7. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF INSPECTIONS DEEM NECESSARY.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH PERMANENT SOIL STABILIZATION.
10. SEDIMENT SHALL BE REMOVED FROM BMP'S BEFORE THEY ARE 25% FULL.
11. PORTABLE RESTROOM SPILL CONTAINMENT: PLACE SAND BAGS AT 7' AROUND FACILITY AND 1' IN HEIGHT TO CONTAIN POSSIBLE SPILLAGE.
12. OFFSITE VEHICLE TRACKING ON ROADWAYS SHALL BE REMOVED IMMEDIATELY.
13. CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SHALL BE RECORDED ON THE EROSION CONTROL PLAN. WASHOUT AREA TO BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION.
14. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE SWPPP DURING CONSTRUCTION OPERATIONS.
15. UNAUTHORIZED CHANGES ARE NOT THE RESPONSIBILITY OF THE PROJECT ENGINEER OR THE ORIGINAL PREPARER OF THE PLAN. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR IMPLEMENTATION AND MAINTENANCE.

General Note:

THIS PLAN HAS BEEN PREPARED AS A SUPPLEMENTAL PLAN TO BE INCORPORATED INTO THE STREET DEVELOPMENT PLANS AND FOR THE GENERAL CONTRACTOR'S USE FOR BEST MANAGEMENT PRACTICES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FORMULATING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AS WELL AS FILING OF APPROPRIATE DOCUMENTS WITH EPA PRIOR TO COMMENCING WORK AND MAINTENANCE OF THE PLAN DURING CONSTRUCTION TO COMPLETION.

Storm Water Pollution Prevention Plan

BMP #	DESCRIPTION / BMP	APPROX. IMPLEMENTATION	ACTUAL IMPLEMENTATION	NOTES:
1	NOI / DEV'R. / CONTR. POSTINGS	____, 2022		
2	CONSTRUCTION ENTRANCE	____, 2022		
3	SILT FENCE	____, 2022		
4	STRAW WATTLES/INLET PROTECTION	____, 2022		
5	PORTABLE RESTROOM	____, 2022		
6	STAGING / STORAGE / TRAILER	____, 2022		
7	CONCRETE WASHOUT	____, 2022		
8	STOCK PILE STABILIZATION	AS NEEDED		
9	DUST CONTROL	AS NEEDED		

PROFESSIONAL ENGINEER
LICENSED
14924
2/11/2022
STATE OF IDAHO
DAVID L. THIBAULT

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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
EHM PROJECT #: 351-21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:
C.9
EROSION & SEDIMENT CONTROL PLAN

SUPPLEMENTAL DESIGN SPECIFICATIONS

IN ADDITION TO IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), 2020 EDITION

GENERAL SPECIFICATIONS

General

References to Engineer shall include the City of Jerome Engineer and/or the project Engineer. Any work within public rights of way or pertaining to City utility mains shall require City Engineer approval. Work within the School District parcel shall be as approved by the project Engineer, City Engineer, or North Side Canal Company as required by the jurisdiction of the reviewing agency.

Scope

This section includes the scope of each item of work, the materials the Contractor shall use, the quality of workmanship the Contractor shall attain, the manner in which the work shall progress, be controlled, surveyed, inspected and tested, and the method of measurement and payment for the work performed. All construction shall conform to these requirements and shall be in accordance with the 2020 Edition of the Idaho Standards For Public Works Construction (ISPWC).

Materials

Prior to ordering any materials the Contractor shall submit sufficient data to the Engineer to determine the acceptability of the product. After written approval of the material the supporting data and documents shall become a part of the Contract, and may not be deviated from except upon written approval of the Engineer.

The Contractor shall supply all applicable samples required by the City Engineer or testing laboratory to test the materials for acceptability. Samples shall be submitted to the City approved laboratory thirty (30) days prior to their use for testing and evaluation.

Workmanship

(1) All workmanship shall conform to the applicable standard practices established by the manufacturers or association of manufacturers, unless otherwise noted in these specifications.
(2) The Contractor shall acquaint himself with all rules and regulations governing work on public rights-of-way and all provisions of easements or agreements governing work on private property. All work performed within a public right-of-way shall conform to all rules and regulations of the State, highway district, canal company or City agency having jurisdiction over the right-of-way. All work performed on private property shall conform to all provisions of the easement or agreement authorizing the work across private property. The Contractor shall notify the appropriate public or private landowner two (2) working days before construction begins across the lands of the owner.
(3) Structures and utilities, whether above ground or below thirty (30) inches underground, shall be retained and protected unless otherwise noted on the Plans or in the Specifications. Small miscellaneous incidental structures such as culverts, fences, mail boxes and sign posts shall be removed and replaced by the Contractor in a condition as good as, or better than their original condition. The Contractor shall provide for the continued functioning of incidental structures during construction. Any legally placed structure or utility damaged by the Contractor shall be repaired or replaced in a condition equal to or better than the condition prior to damage. If directed by the Engineer or utility owner involved, the Contractor shall repair or assist in the repair of all damaged utilities or structures. All utility or structure repair shall be done under the direct supervision of the Engineer or utility owner involved.
(4) The Contractor shall be responsible for and shall provide, erect and maintain adequate barricades and signs, flagmen, fences or other approved protection devices in the standards established by the Manual for Uniform Traffic Control Devices or other applicable safety standards to insure the protection and safety of the public and those engaged in construction. The Engineer reserves the right to require any additional safety precautions which are necessary for the protection of the public.
(5) The Contractor shall maintain traffic control at all times. All work shall be carried out so as to cause the minimum dislocation of normal private and commercial pursuits. Traffic flow must be maintained on streets where no detour is practical. A traffic control plan shall be submitted to and approved by the City Engineer prior to the commencing work. This plan shall show all signing, detour routes and intended public media contract schedules. Street and road crossings shall be constructed in such a manner that at least one-half (1/2) the street is kept open to traffic at all times, unless special permission is granted by the City Engineer due to unusual circumstances no public street shall be closed more than twenty four (24) hours when permission to close the street is given. All street crossings requiring an asphaltic patch shall be patched back within twenty four (24) hours of the start of work.
(6) No blasting shall be done nor shall any explosives or blasting caps be used on this project.
(7) Clean up of the construction site shall be performed in a conscientious manner. The Contractor shall remove from all public and private property, all temporary structures, rubbish, waste materials and surplus materials resulting from his operations or caused by his employees, and shall leave the site smooth, clean and true to line and grade. Materials cleared from the site and deposited on adjacent property will not be considered as having been disposed of satisfactorily. Debris and rubbish shall be disposed of in an approved location.
(8) All work shall conform to the 2020 Idaho Standards For Public Works Construction.

Progress and Control

(1) The sequence of construction shall be as follows unless special approval in writing is obtained from the City Engineer:
A) Waste water sewers and service connections
B) Waste water manholes and cleanouts
C) Storm sewers and catch basins
D) Irrigation pipes and boxes
E) Water lines and service connections
F) Gas lines, power lines, telephone lines, fiber optic lines and cable vision lines
G) Any other underground improvements that are required
H) Sub-base preparation for public ways and school district paved areas
I) Gravel base course for public ways and school district paved areas
J) Curb-gutter, valley-gutter and sidewalk
K) Gravel leveling course
L) Asphalt paving
(2) PUBLIC AND PRIVATE WAYS
Required Inspections
A) Approval of all material before placement
B) Approval of sub-base before placing any gravel base course
C) Approval of forms and gravel base before pouring any concrete curb-gutter or sidewalk or valley-gutter
D) Approval of each layer of gravel base before placing of gravel leveling course
E) Approval of the gravel leveling course before placing any asphaltic prime coat
F) Inspection and testing during placement of asphaltic concrete surface course
G) Final inspection after all work is completed
(3) WATER SYSTEMS
Required Inspections
A) Approval of all material before placement
1) The Contractor shall supply a copy of the factories or suppliers invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of all fittings and valves by the City Water Superintendent or City Engineer before backfilling around the fitting and valve.
C) Approval of each layer of backfill before placing the next layer.
D) Approval of the pipe by leakage and pressure tests in conformance with ISPWC. A Written Notice must be issued.
E) Final approval after all work is completed and before any improvements are constructed over the pipes
(4) WASTEWATER SYSTEM
Required Inspections
A) Approval of all materials before placement.
1) The Contractor shall supply a copy of the factory's or supplier's invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of the excavation and pipe placement before pouring a concrete manhole base.
C) Approval of the in-place pipe, sewer services, and manholes before backfilling.
D) For flexible pipe, approval of maximum pipe deflection after backfilling.
E) Approval of the pipe joints (ex-filtration test) after backfilling and before any users are connected to the system, a Written Notice must be issued.
F) Final approval after all work is completed and before any improvements are constructed over the pipes.
(5) DRAINAGE SYSTEMS
Required Inspections
A) Approval of all materials before placement
1) The contractor shall supply a copy of the factory's or supplier's invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of forms and base before placement of any concrete.
C) Approval of in-place pipe, catch basins and other appurtenances before backfilling.
D) Approval of each layer of backfill before placing the next layer.
E) For flexible pipe, approval of maximum pipe deflection after backfilling.
F) Approval of maximum leakage, (exfiltration) after backfilling.
G) Final approval after all work is completed and before any improvements are constructed over any pipes
(6) IRRIGATION SYSTEMS - PRESSURE & GRAVITY
Required Inspection
A) Approval of all materials before placement
1) The Contractor shall supply a copy of the factory's or supplier's invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of the forms and base before placement of any concrete.
C) Approval of in-place pipe, irrigation boxes, pressure irrigation structures and other appurtenances before backfilling.

Progress and Control (Continued)

D) Approval of each layer of backfill before placing the next layer.
E) For flexible pipe, approval of maximum pipe deflection after backfilling on gravity irrigation.
F) Approval of maximum leakage, (exfiltration) after backfilling.
G) Final approval after all work is completed and before any improvements are constructed over any pipes.

(7) STAKING BY SURVEY CREW

The survey controls specified in this section are the minimum requirements. All controls specifically designated herein to be performed by the Contractor and any other controls the Contractor may require are the responsibility of the Contractor. All survey work shall be done by an independent survey crew. It shall be the responsibility of the Contractor to lay out the work from the lines set and to transfer elevations from the grade stakes. The designated staking shall be as shown below.
a) Sidewalk. (From existing curb and gutter)
b) Curb-Gutter. Stakes shall be set every fifty (50) feet, at all corner radius points, vertical points of intersection, and at the center of each drive approach to indicate its location and size.
c) Valley Gutter. Stakes shall be set at each end.
d) Driveway Approach Slabs. For standard driveway approach slabs the grade and alignment will be defined by the existing curb-gutter. For arterial driveways, stakes will be set at all corner radii points. End of Radius grades will be
e) Catch Basin. A stake shall be set indicating the location, elevation of top of curb and inverts of all pipes.
f) Irrigation Box. A stake shall be set indicating the location, top of box and inverts of all pipe in the box.
g) Manholes. A stake shall be set indicating the location, top of box and inverts of all pipe in the manhole.
h) Pipes. Stakes shall be set at reasonable intervals, at changes in grade or alignment and at each manhole. The stakes will indicate pipe invert depth and location. Stakes shall also be set for water valves and fire hydrants, showing location and finished grade.
i) General Excavation and Embankment. Stakes shall be set on a twenty-five (25) foot grid.
j) Rock Excavation. The same as above except that payment for rock will be made based on field measurements made by the Owner's/Engineer's representative based on required trench width and depth.
k) Streets & Alleys. (As shown below)
1) Excavation & Embankment. Stakes shall be set along each side of the street showing the alignment and grade. and designating the limits of construction and shall be set at fifty (50) foot intervals.
2) Gravel. Blue top stakes shall be set at fifty (50) foot intervals along the crown line of the subgrade, one and one-half (1/2) inch max. gravel and three-fourths (3/4) inch max. gravel leveling courses. Grade stakes shall be set at ± 0.03 feet of actual grade.
3) Pavement. Stakes shall be set at twenty-five (25) foot intervals for crownline finished grade.
(8) INSPECTION AND TESTING OF SOILS, GRAVEL AND ASPHALT PAVEMENT.
The inspection and testing procedures specified in this section are the minimum requirements.
a) Trench - Common and Gravel Backfill and Street - Subgrade and Gravel.
One (1) - moisture density curve (proctor) with gradation per two thousand (2000) feet and at any noticeable change in soil type or five hundred (500) cubic yards of gravel.
One - nuclear density and moisture test per two hundred (200) feet of trench above the pipe zone until the compaction method is established and consistent results are achieved. Then one (1) per three hundred (300) feet or less. Not more than two (2) out of ten (10) shall be at the same depth. The pipe zone shall be tested every one hundred fifty (150) feet minimum. Streets shall be tested once per lane per lift or course per two hundred (200) feet or part thereof. Sidewalk, valley gutter and curb-gutter shall be tested once every fifty (50) feet or part thereof per lift or course of material.
b) Trench and Street, Plant-Mix Pavement.
One (1) plant sample per day of paving or part thereof.
One (1) set of two (2) in-place samples (cores) per plant-mix sample and per two hundred (200) feet of project.
One (1) in-place density per one hundred (100) feet of traveled lane or trench patch back.
c) Gravel shall be tested for gradation, angularity, sand equivalent, and other tests as required, with a frequency of at least one passing test per 2,000 tons of crushed or graded product.
(9) INSPECTIONS AND TESTING FOR CONCRETE SLABS, SIDEWALKS, ETC.
a) Compressive strength test - one (1) set of four (4) each for: one (1) seven (7) days, one(1) fourteen (14) days and two (2) twenty-eight (28) days per five hundred (500) cubic yards or per days run which ever is smaller.
b) Slump of portland cement - one (1) per truck.
c) Cement content - as shown in specifications.
d) Air content of freshly mixed concrete - one (1) per day.
Note: Other tests and inspections are in accordance with the applicable sections of the ISPWC.

Measurement and Payment

1) All measurements shall be U.S. Standard Measure. All measurements shall be as shown on the plans or as specified herein unless the dimensions are specifically changed or modified by the Owner. All work acceptably completed under the terms of these specifications shall be measured jointly by the Engineer and Contractor. Should the Contractor discover an error in the dimensions as shown on the plans or disagree with the field measurements he shall immediately notify the Engineer, suspend work and request a measurement verification. Should the Contractor proceed with any item of work it shall be considered as evidence that he has verified all measurements and concurs with the Engineer in the quantity measure.
2) All materials, labor and equipment necessary to complete the project in accordance with the plans and specifications shall be considered incidental to the bid items shown in the bid schedule. No payment will be made for work not shown on the plans or in the specifications unless specifically ordered and required by the Engineer. No payment will be made for work after a work item has been suspended or terminated.
3) All costs or claims resulting from damage by the Contractor to any unknown but properly covered utility line or structure, due to the Contractor's failure to properly notify the utility owner shall be paid by the Contractor with no additional compensation by the Owner. The Contractor shall keep a record of all notifications and of all known utility lines or structures. All lines or structures shall be considered as properly covered and known unless the Contractor can produce written evidence that the utility owner was notified and failed to locate the utility line or structure. If the Contractor is ordered to repair or assist in the repair of a damaged unknown utility and is due compensation or payment by the utility owner for his work, the amount of compensation or payment shall be agreed upon prior to performing the work.

TRAFFIC SIGNAGE AND STRIPING

(1) All striping and signage to be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD) and the Idaho Standards for Public Works Construction (2020 Edition).
(2) Pavement marking paint shall be MPI #32, alkyd or MPI #97, latex traffic marking paint. Color: white.
(3) Glass beads: AASHTO M 247, Type 1.
(4) VOC content: Pavement markings used on building interior shall have a VOC content of 150 g/L or less.

Application:
A. Do not apply pavement marking paint until layout, colors, and placement have been verified with Architect.
B. Allow paving to age for a minimum of 30 days before starting pavement marking.
C. Sweep and clean surface to eliminate loose material and dust.
D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
   1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils. Apply paint so that it cannot run beneath the stencil.
   2. Broadcast glass beads uniformly into wet markings at a rate of 6 lb/gal. (0.72 kg/L).

EARTHWORK

This work shall conform to Division 200 of the Idaho Standards For Public Works Construction (ISPWC) 2020 Edition.

BASE COURSE AND LEVELING COURSE

This work shall consist of graded aggregate spread and compacted on a prepared surface in accordance with the specifications and in reasonably close conformity with the lines, grades, thicknesses and typical cross sections shown on the plans or established by the Engineer.

Materials

(1) The moisture density relationship of the base and leveling material shall be determined in accordance with AASHTO T-99-90 methods A and C. The in-place density of the base shall be determined in accordance with AASHTO T-238-86. Density tests will be taken with a nuclear densometer.

(2) TYPE I AGGREGATE The aggregate material to be used will be produced from sound, tough, durable rock and shall be uniform in quality and gradation. The crushed material will be reasonably free from soft or disintegrated pieces, organic materials, and other objectionable matter. The material will show a loss of not more than thirty-five percent (35%) in the Los Angeles Abrasion Test. The percentage of soft particles as determined by the Clay Lumps and Friable Particles AASHTO T 112-87 shall not be more than five percent (5%). The material used will not have a sand equivalent less than thirty (30) if five percent (5%) or more of the material passes the No. 200 (0.075 mm) sieve. Eighty percent (80%) of the gravel by weight, of the combined course aggregate shall have three (3) or more rough angular surfaces as approved by the City Engineer and produced by crushing of the rock. The plasticity of the finished product will not exceed six (6).

(3) TYPE II AGGREGATE Shall conform to section (2) except that the aggregates shall have a Los Angeles abrasion of thirty-five percent (35%) to seventy percent (70%) wear, come from a quarry and have a surface fracture of ninety-five percent (95%) to one hundred percent (100%).

(4) The Contractor shall use aggregate conforming to the following gradations for the base course one and one-half inch (1 1/2") (37.5 mm) maximum gravel, leveling course three quarter inch (3/4") (19.0 mm) maximum gravel, and leveling course one-half inch (1/2") (12.5 mm) maximum gravel if specified:

PERCENTAGE BY WEIGHT PASSING SIEVES

	TYPE II	TYPE I	TYPE I *
SIEVE SIZE	1 1/2 Inch Max. (37.5 mm)	3/4 Inch Max. (19 mm)	1/2 Inch Max. (12.5 mm)
1 1/2 Inch	100		
1 Inch	55-83	100	
3/4 Inch		90-100	100
1/2 Inch			90-100
3/8 Inch			90 Max.
NO. 4	30-60	40-65	
NO. 8		30-50	28-58
NO. 30	10-25		
NO. 200	0-8	3-9	2-10
	(washed)	(washed)	(washed)

NOTES:
A. Type I Crushed Aggregate that has a Los Angeles abrasion of not more than 35% and may be used anywhere that aggregates are required as per Standard Specifications.
B. Type II Crushed Quarry Aggregate that has a Los Angeles abrasion of between 35% and 70% with a 95 - 100% fractured surfaces and may be used anywhere except plant mix pavement and except base gravel or leveling course gravel on a designated forty-eight foot (48') wide or larger street.
C. *This material may only be used with written permission from the Engineer.

PLANT MIX PAVEMENT

The work shall consist essentially of the application of a hot plant mix asphaltic pavement upon an approved base in accordance with the specifications and in reasonably close conformity with the lines, grades, thicknesses and typical cross sections shown on the plans.
(1) Tack Coat shall be liquid asphalt grade SS-1h and shall conform to the Specifications Series No. 2 (SS-2) of the Asphalt Institute. For this project Prime Coat will not be required.
(2) Placement of hot plant mix asphalt shall begin within (forty-eight) 48 hours of final testing and observation of the base course, excepting delays for inclement weather. Extensive delays may require additional testing or inspection.
(3) The mix used for the hot plant mix asphalt must be an approved asphalt mix. Mix design characteristics must be submitted to and approved by the City of Jerome and applicable Highway District prior to its use. Superpave hot mix asphalt shall meet the mixture requirements as specified within the Idaho Transportation Department Standard Specifications for Highway Construction, Table 405.02-1 Superpave Mixture Requirements and shall be utilized under the following conditions:
(a) The Contractor shall provide Superpave HMA composed of a combination of aggregate, approved additives, mineral filler (if required), RAP (if used), WMA additives or process (if used), and performance graded (PG) asphalt binder material. A job mix formula ("JMF") shall be required to be submitted to the City of Jerome for approval prior to placement of any hot-mix asphalt within public rights of way.
(b) Either SP-2 or SP-3 Superpave Mix Designs may be acceptable to the City and School District. Roadways with an existing or anticipated traffic volume greater than 1 million ESAL's shall require SP-3 Superpave Mix Design.
(c) Superpave Mix Design shall conform to the latest requirements and specifications of the Idaho Transportation Department Standard Specifications for Highway Construction, Section 405. Except that no more than seventeen (17) percent RAP may be included within any particular mix design, therefore, no adjustments to (PG) binder grades shall be necessary.
(d) 1/2" aggregate size Superpave Mix Designs may be utilized for paving of all interior parking lots and drive aisles within the school site.
(4) The aggregate used in the hot-mix asphalt mix shall meet the following gradation:

PERCENTAGE BY WEIGHT PASSING SIEVES

Sieve Size	3/4 Inch Max. (19 mm)	1/2 Inch Max. (12.5 mm)
3/4 Inch	90-100	100
1/2 Inch	90 Max.	90-100
3/8 Inch	52-80	90 Max.
NO. 8	23-49	28-58
NO. 200	2-8	2-10

Note: The aggregate shall have a percent of wear not greater than 30 on the Los Angeles Abrasion Test, a Sand Equivalent not less than 35, and absorption not greater than 2 percent. Not less than 90 percent by weight of the aggregate particles retained on the No. 4 sieve shall have a least one fractured face, and not less than 70 percent shall have two fractured faces.

(5) Performance grade asphalt binder designated as 58-28 shall be required for use in approved mix designs, unless otherwise approved by the City of Jerome.
(6) When directed by the City of Jerome or project Engineer, asphalt products shall be treated with a heat-stable anti-stripping additive of not less that 0.5 percent by weight.
(7) The asphalt mix shall be laid only when the ambient air temperature is greater than 55 degrees Fahrenheit and rising and the mix is a temperature of 235 degrees Fahrenheit or greater.
(8) Paving may be allowed at lower ambient air temperatures (45 degrees F and rising) with special permission of the City Engineer or project Engineer and under the following conditions:
(a) Testing: Testing and inspection frequency shall double.
(b) Ground Surface Temperature shall exceed 45 degrees Fahrenheit.
(9) After spreading, the mixture shall be thoroughly and uniformly compacted with power rollers as directed by the City. or project Engineer. Rolling of the mix shall begin as soon after spreading as it will bear the roller without undue displacement or hairline cracking. Initial rolling shall be done longitudinally. The rollers shall overlap on successive trips. Alternate trips of the roller shall be slightly different lengths. Unless otherwise directed, the initial or breakdown rolling shall consist of one complete coverage of the paving mixture performed with a two-axle tandem roller. Initial breakdown rolling shall be followed by three complete coverages with a pneumatic-tired roller while the temperature of the mixture is at or above 140 degrees Fahrenheit. The final rolling shall be performed in such a manner that cracking, shoving, or displacement shall be avoided. Final rolling shall be completed the same day the pavement is placed. Sufficient rollers shall be furnished to handle the output from the plant. Rolling shall continue until all rolling marks are eliminated and the surface is of uniform texture and true to grade and cross-section.
(10) To prevent adhesion of the mixture to the rollers, the wheels shall be kept properly moistened with water or water mixed with very small quantities of detergent or other approved material. Excessive water will not be permitted on the roller surfaces. Diesel fuel, kerosene, or other solvents shall not be applied to roller drums of wheels.
The final matt thickness after compaction shall be no less than the thickness depicted on these plans.
The completed hot-mix asphalt surface course shall have a field density equal to or greater than 92 percent for sections paved with Superpave SP-2 or SP-3 mix designs. In street sections, when utilizing a corrected nuclear densometer in the backscatter mode, the allowable tolerance ranges shall be in accordance with WAQTC TM-8 in place density of hot-mix asphalt.
The final surface shall be of a uniform texture and shall conform to the line and grade shown on the plans. Before final acceptance of the project or during the progress of the work, the thickness of all courses will be determined by the City of Jerome's representative.
All unsatisfactory work shall be repaired, replaced, or corrected at the Contractor's expense. The method of correcting unsatisfactory work shall be approved by the City of Jerome prior to correction.
Both density and thickness shall be carefully controlled during construction and shall be in full compliance with plans and specifications. For the purposes of testing the surface on all courses, one 10-foot straightened edge shall be used. The straightedge shall be held in successive positions parallel and perpendicular to the street centerline in contact with the surface, and the entire areas checked from one side to the other. Advances along the pavement shall be in successive stages of not more than half the length of the straightedge.
Irregularities which may develop before the completion of rolling shall be remedied by loosening the surface mix and removing or adding materials as may be required. Any irregularities or defects which are found after final rolling, which vary more than 0.02 of a foot in 10 feet for surface courses shall be corrected at the Contractor's expense. All minor surface projections, joints, and minor honey-combed surfaces shall be iron smooth to grade, as may be directed by the City of Jerome or the project Engineer.

CONCRETE

This section shall apply to all concrete placed within the City rights of way for the construction of or in conjunction with curb and gutter, valley gutter, sidewalks, approved curb cuts, sanitary sewers, storm sewers, concrete slabs, concrete structures and footings. Portland cement concrete shall be composed of Portland cement, fine aggregate, coarse aggregate and water, proportioned and mixed in accordance with these specifications and placed in reasonably close conformity with the lines and grades shown on the plans.

Materials

(1) Concrete shall be ready-mix concrete and shall conform to ASTM designation C-94-92 Standard Specifications The maximum size aggregate shall be as shown. The maximum slump at the point of delivery shall be four (4) inches (100 mm) except in the case of extrusions. Extrusions shall have a slump of one and one-half inches plus or minus one inch (1½ ± 1) The concrete shall be air-entrained with an air content of between six and one-half percent plus or minus one and one-half percent (6½% ± 1½%) and shall conform to ASTM C-260-97. The concrete shall have a minimum twenty-eight (28) day compressive strength of four thousand (4,000) pounds per square inch (27580 kPa) and minimum cement content of six (6) bags per cubic yard. References to "Purchaser" in the ASTM C-94-92 Specifications shall mean the Engineer and references to "User" shall mean Contractor.
(2) The following conditions shall be in lieu of or in addition to the requirements of ASTM C-94-92 Specifications:
a) Truck mixers shall be equipped with electrically actuated counters by which the number of revolutions of the drum or blades may be readily verified. The counters shall be actuated at the time of starting the mixer.
b) No additional mixing water will be added to obtain the specified slump without permission of the Engineer.
c) Cement may be added to the mix prior to pouring with adequate mixing.
(3) Concrete curing compound shall be a liquid membrane forming colored compound conforming to AASHTO designation M 148-82 or approved equal.
(4) Preformed expansion material shall be one-half (½) inch thick and shall conform to AASHTO designation M-33.
(5) Preformed reinforcing bar shall conform to ASTM A-305, A-615, 616 and 617.

Workmanship

In addition to ISPWC Standards these specifications shall apply with the addition of the following:
(a) The work shall consist of removal of any obstructions which are in the area of construction.
(b) The contractor shall make all arrangements for disposal of existing materials to be removed. All surplus embankment, concrete and masonry materials shall be disposed of at a location approved by the Engineer.
(c) The Contractor shall dispose of all decomposable or burnable materials and all clearing, metal pipe, and all other debris associated with the project at an approved landfill.
(d) The root system of bushes shall be removed to a depth of one (1) foot below subgrade. Complete removal and disposal of trees and stumps and the removal of their top roots to a depth of one (1) foot below subgrade level and backfill of any hole or depression is required.
(e) The work shall include excavation and disposal of earth or other materials within the area of construction, maintenance of adequate drainage during construction, and supplying, hauling, placing and compacting approved embankment material.
(f) Natural ground, or compacted fill material upon which the concrete is to be placed, shall be firm, free of organic matter, and completely free of frost. The ground shall be graded to neat lines and grades.
(g) The subgrade shall be free from ruts, corrugations, segregated material or other irregularities. The finished surface shall not vary more than one-half (1/2) inch from a ten (10) foot straight edge when applied to the surface parallel with and at right angles to the centerline. The moisture content of the subgrade material shall be the optimum moisture content and the material shall be uniformly compacted to at least ninety-five percent (95%) of its maximum density as determined by AASHTO T-99-90 for a depth of six (6) inches.
(h) Forms shall be timber or metal. They shall be straight, clean and free from warp. Lumber used for forms shall be dressed to a uniform thickness and shall be free from loose knots and other defects.
(i) Forms used for surfaces exposed to public view shall be constructed and maintained in such a manner that ordinary surface finishing will provide a smooth surface with a uniform color and texture. No patches or repairs to forms or in the case of metal forms, no dents will be permitted that will leave protrusions or indentations in the finished concrete.
(j) Forms shall be mortar tight and of sufficient rigidity to prevent distortion due to the pressure of the concrete, vibration and loads incident to the construction operations.
(k) Forms shall be treated to prevent the adherence of concrete. Material used for treating shall not adhere to or discolor the concrete.
(l) Metal ties or anchorages within the forms shall be constructed so as to permit their removal to a depth of at least one-half (1/2) inch from the face of the concrete upon removal of the forms.
(m) Concrete shall not be placed until the forms have been checked and approved by the Engineer. The forms shall be clear of all debris, ice or frost before concrete is placed.
(n) Forms shall be thoroughly wetted or oiled and the base material to be poured upon shall be thoroughly dampened.
(o) Concrete shall be handled from the transporting vehicle to the place of final deposit as rapidly as practicable by methods which shall prevent the segregation of the materials and the displacement of reinforcing steel.
(p) Concrete, during and immediately after depositing, shall be tamped into place and thoroughly compacted, until decrease in volume is no longer apparent and all air has been removed, but shall not continue to the extent that localized areas of grout are formed.
(q) Vibrators shall be used in structures to assure adequate consolidation around pipes and reinforcing steel. Vibrators shall transmit vibrations to the concrete at frequencies of not less than five thousand (5,000) impulses per minute. Vibrators shall be manipulated so as to work the concrete thoroughly around the reinforcement, imbedded fixtures and into corners and angles of the forms. Vibrators shall not be used in lieu of placing as a means to cause the concrete to flow or run into position. The vibration at any point shall be of sufficient duration to accomplish thorough consolidation, but shall not be prolonged to the point where segregation of aggregate occurs.
(r) If the air temperature falls below forty degrees Fahrenheit (40° F) the following cold weather placement procedures shall apply: 1) No concrete shall be placed on frozen subgrade or gravel leveling course nor shall there be any ice, snow, or frost on the concrete forms; 2) The Contractor shall furnish concrete that has a temperature at the time of placement, of at least fifty degrees Fahrenheit (50°F) and not more than eighty degrees Fahrenheit (80°F); 3) Heating equipment shall heat the materials uniformly; 4) Heating shall be done in such a manner that occurrence of non-uniform moisture contents or contamination in the aggregate shall not occur; 5) The aggregate shall not contain frozen lumps, ice or snow; 6) Aggregate shall not be heated to temperatures in excess of one hundred fifty degrees Fahrenheit (150° F); 7) The aggregate and water mixture shall have a temperature below eighty degrees Fahrenheit (80° F) before any cement or air entraining agent is added; 8) The concrete shall be protected from frost, snow or freezing for a period of seven (7) days at a minimum concrete temperature of forty degrees Fahrenheit (40°F).
(s) An ordinary surface finish shall be applied to all concrete surfaces. Immediately after the forms have been removed, the Contractor shall remove form bolts and tie wires. If, in the judgment of the Engineer, rock pockets are of such extent or character as to materially affect the strength of the structure or to endanger the life of the steel reinforcement, he may declare the concrete defective and require the removal and replacement of that portion of the structure affected. All holes and depressions shall be cleaned, thoroughly wetted, and filled with a cement mortar composed of one part of cement to two parts of sand. All fins caused by form joints and other projections shall be removed above the ground line. The resulting surfaces shall be reasonably smooth and uniform in texture and color. All surfaces which cannot be finished to the satisfaction of the Engineer shall be given an approved rubbed surface finish or the structure shall be removed.
(t) Membrane forming curing compound shall not be applied to concrete surfaces before the finishing has been acceptably completed. The curing compound shall be uniformly applied at the rate of one (1) gallon to not more than two hundred (200) square feet of surface. The curing compound shall be thoroughly mixed with the pigment uniformly distributed throughout. The curing compound shall not be applied during rainfall unless the surface is immediately covered in an approved manner. No Curing compound shall be required during cold weather if the cement is covered with blankets. If heat is required during cold weather curing compound shall be used. Should the film become scuffed or damaged from any cause during the curing period, the damaged area shall be recoated immediately with additional curing compound.
(u) Curing of formed concrete structures shall be accomplished by leaving the forms in place for a minimum of twelve (12) hours. Immediately after removal of forms a curing compound shall be applied to all exposed surfaces.
(v) Curing of unformed or exposed concrete surfaces shall be accomplished by keeping the surface completely and continuously moist until curing compound is applied.
(w) The Contractor shall be responsible for the protection and repair of fresh concrete against footprints, tracks or any other objectionable marks.
(x) The Contractor shall trowel all contraction joints to one-fourth (1/4) the concrete depth unless otherwise instructed by the Engineer. All felt expansion material shall be placed in such a manner as to entirely separate the adjacent slabs.
(y) There shall be no vibrator rolling performed within fifty (50) feet of freshly poured concrete for a period not less than forty-eight (48) hours.
(z) Traffic: Curb-gutter and driveway approach must be protected from all traffic for a period of seven (7) days after which a foot of graded gravel may be placed over the concrete and light cars and pickups may drive over the concrete. At the end of fourteen (14) days the gravel may be removed. No loaded trucks shall be allowed over the concrete until the end of twenty-eight (28) days.
(aa) All work shall conform to the Idaho Standards For Public Works Construction (ISPWC) Standard Drawings.

These specifications shall apply with the addition of the following:
(1) The contractor shall notify the Engineer to check and approve subgrade, leveling course, forms, alignment reinforcement and expansion material prior to pouring concrete.
(2) Testing shall be in accordance with the following standard methods:
a) Compressive Strength of molded concrete cylinders: AASHTO T 22-90
b) Slump of Portland Cement Concrete: AASHTO T 119-82 (with particular attention being paid to Note No. 3)

PROFESSIONAL ENGINEER LICENSED 14924 STATE OF IDAHO DAVID L. THIBAULT 2/11/2022

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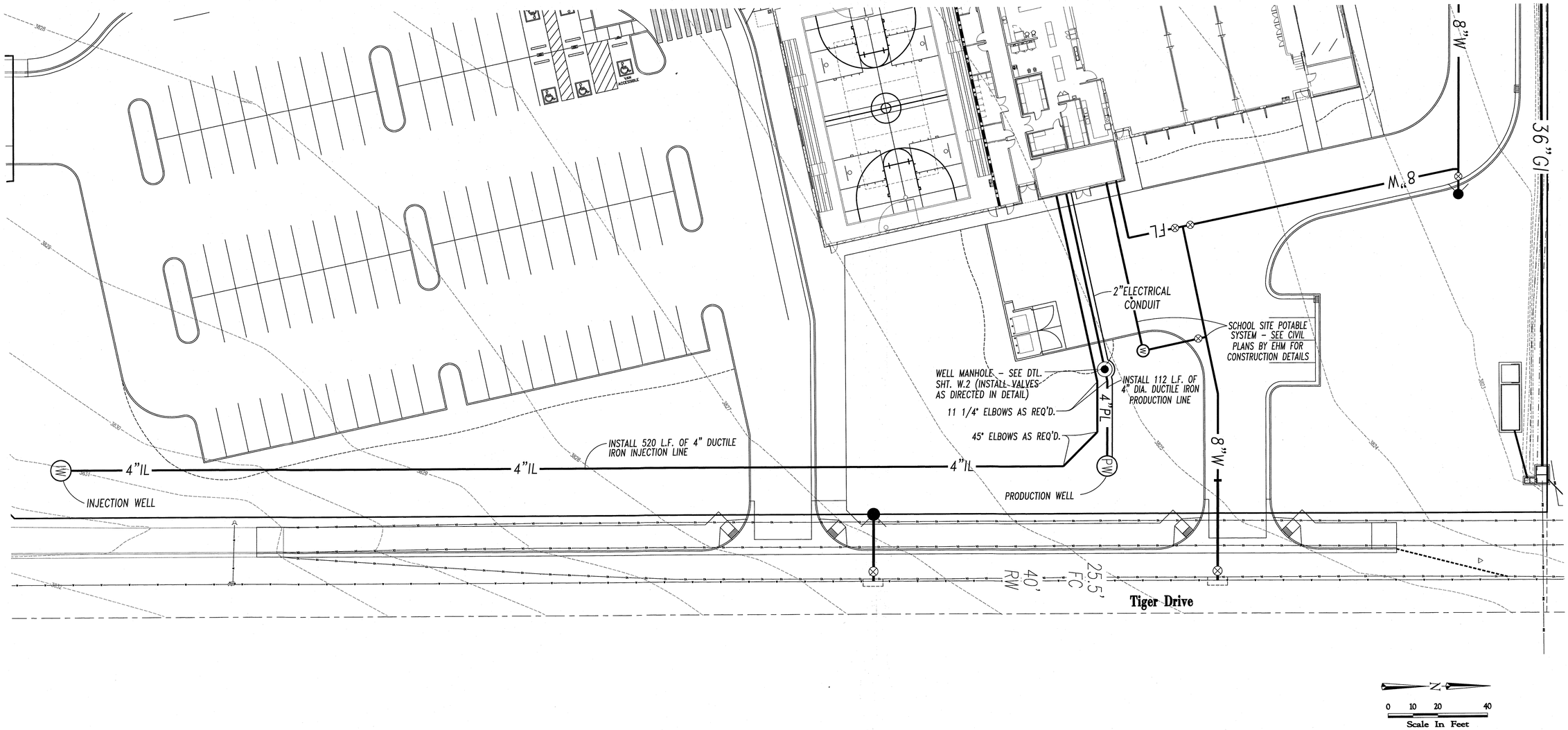
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
EHM PROJECT #: 351-21

DRAWN BY: TV
CHECKED BY: DT

BID SET

DRAWING NO.:
C.10
SPECIFICATIONS



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W.1
WELL PLAN

PROFESSIONAL ENGINEER
LICENSED
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STATE OF IDAHO
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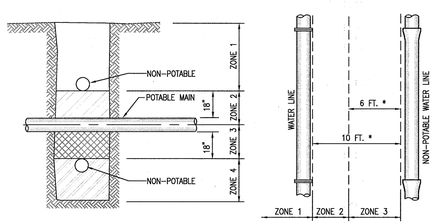

WELL SOURCE COOLING SYSTEM SPECIFICATIONS AND DETAILS

Sanitary Seal Installation Instructions

IDAPA 58.01.08.510.03

g. PERMANENT WELL CASING SHALL BE SURROUNDED BY A MINIMUM OF ONE AND ONE-HALF (1 ½) INCHES OF GROUT TO THE DEPTH REQUIRED BY SUBSECTION 510.03.B. OF THESE RULES, OR BY THE RULES OF THE IDAHO WATER RESOURCES BOARD REFERENCED IN SUBSECTION 002.02, WHICHEVER IS GREATER. ALL CASING IDENTIFIED IN PLANS AND SPECIFICATIONS AS TEMPORARY CASING SHALL BE REMOVED PRIOR TO WELL COMPLETION. (5-8-09)

i. NEAT CEMENT GROUT CONSISTING OF CEMENT THAT CONFORMS TO AWWA STANDARD A-100, AND WATER, WITH NOT MORE THAN SIX (6) GALLONS OF WATER PER NINETY-FOUR (94) POUNDS OF CEMENT, SHALL BE USED FOR ONE AND ONE-HALF (1 ½) INCH OPENINGS. ADDITIVES MAY BE USED TO ENHANCE EFFECTIVENESS AND ARE SUBJECT TO APPROVAL BY THE REVIEWING AUTHORITY AND THE IDAHO DEPARTMENT OF WATER RESOURCES ON A CASE-BY-CASE BASIS. (3-30-07)

ii. BENTONITE GROUT SHALL HAVE A SOLIDS CONTENT NOT LESS THAN TWENTY-FIVE (25) PERCENT BY WEIGHT WHEN MIXED WITH WATER AND BE SPECIFICALLY MANUFACTURED FOR USE IN SEALING OF WELL CASING. BENTONITE GROUT SHALL NOT CONTAIN WEIGHTING AGENTS TO INCREASE SOLIDS CONTENT. BENTONITE GROUT SHALL NOT BE USED ABOVE THE WATER TABLE. ALL BENTONITE GROUT SHALL BE INSTALLED BY POSITIVE DISPLACEMENT FROM THE BOTTOM UP THROUGH A TREMMIE OR FLOAT SHOE. (3-30-07)

iii. WHERE A DRY ANNULAR SPACE IS TO BE SEALED, A MINIMUM OF TWO (2) INCHES ON ALL SIDES OF THE CASING SHALL BE REQUIRED TO PLACE BENTONITE TO DEPTHS NOT GREATER THAN ONE HUNDRED (100) FEET, USING #8 MESH GRANULAR BENTONITE. ALL DRY POUR GRANULAR BENTONITE SHALL BE TAGGED AT APPROPRIATE INTERVALS TO VERIFY PLACEMENT. IF A BRIDGE OCCURS, A TREMMIE PIPE SHALL BE WASHED OR JETTED THROUGH THE BRIDGE TO ALLOW FOR PUMPING OF GROUT. BENTONITE CHIPS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE PROPER PLACEMENT FOR THE EXISTING SUBSURFACE CONDITIONS. (3-30-07)

iv. DRY GRANULAR BENTONITE USED IN WELLS WHERE A DRY ANNULAR SPACE IS TO BE SEALED WITH DEPTHS GREATER THAN ONE HUNDRED (100) FEET SHALL REQUIRE AN ANNULUS OF AT LEAST THREE (3) INCHES ON ALL SIDES OF THE CASING, OR AS APPROVED BY THE REVIEWING AUTHORITY AND THE IDAHO DEPARTMENT OF WATER RESOURCES. IF A BRIDGE OCCURS, A TREMMIE PIPE SHALL BE WASHED OR JETTED THROUGH THE BRIDGE TO ALLOW FOR PUMPING OF GROUT. BENTONITE CHIPS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE PROPER PLACEMENT FOR THE EXISTING SUBSURFACE CONDITIONS. (3-30-07)

v. ALL CHIP BENTONITE SEALS INSTALLED THROUGH WATER SHALL ONLY BE USED IN ANNULAR SPACES OF AT LEAST FOUR (4) INCHES ON ALL SIDES OF THE CASING. IF A BRIDGE OCCURS, A TREMMIE PIPE SHALL BE WASHED OR JETTED THROUGH THE BRIDGE TO ALLOW FOR PUMPING OF GROUT. BENTONITE CHIPS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE PROPER PLACEMENT FOR THE EXISTING SUBSURFACE CONDITIONS. CHIP BENTONITE SEALS INSTALLED THROUGH WATER SHALL BE: (3-30-07)

(1) INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS; OR (3-30-07)

(2) INSTALLED BY POURING CHIPS OVER A ONE-QUARTER (1/4) INCH MESH SCREEN FOR THREE-EIGHTHS (3/8) INCH CHIPS TO REMOVE FINES TO PREVENT BRIDGING AT THE WATER TABLE; OR (3-30-07)

(3) INSTALLED USING COATED PELLETS TO RETARD HYDRATION IF APPROVED BY THE REVIEWING AUTHORITY AND THE IDAHO DEPARTMENT OF WATER RESOURCES. (3-30-07)

vi. CONCRETE MAY BE APPROVED ON A CASE-BY-CASE BASIS BY THE REVIEWING AUTHORITY AND THE IDAHO DEPARTMENT OF WATER RESOURCES. UPON SUCH APPROVAL, THE APPROVED METHOD SHALL USE A SIX (6) SACK MINUS ONE-HALF (1/2) INCH PORTLAND CEMENT CONCRETE AND SHALL BE INSTALLED BY POSITIVE DISPLACEMENT FROM THE BOTTOM UP THROUGH A TREMMIE PIPE. (3-30-07)

Source Pump Test Instructions

IDAPA 58.01.08.501.01

06. TEST PUMPING. UPON COMPLETION OF A GROUND WATER SOURCE, TEST PUMPING SHALL BE CONDUCTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES TO MEET THE SPECIFIED REQUIREMENTS: (12-10-92)

a. THE WELL SHALL BE TEST PUMPED AT THE DESIRED YIELD (DESIGN CAPACITY) OF THE WELL FOR AT LEAST TWENTYFOUR (24) CONSECUTIVE HOURS AFTER THE DRAWDOWN TREND HAS STABILIZED, AS DETERMINED BY THE SUPERVISING ENGINEER OR GEOLOGIST. ALTERNATIVELY, THE WELL MAY BE PUMPED AT A RATE OF ONE HUNDRED FIFTY PERCENT (150%) OF THE DESIRED YIELD FOR AT LEAST SIX (6) CONTINUOUS HOURS AFTER THE DRAWDOWN TREND HAS STABILIZED, AS DETERMINED BY THE SUPERVISING ENGINEER OR GEOLOGIST. THE FIELD PUMPING EQUIPMENT MUST BE CAPABLE OF MAINTAINING A CONSTANT RATE OF DISCHARGE DURING THE TEST. DISCHARGE WATER MUST BE PIPED AN ADEQUATE DISTANCE TO PREVENT RECHARGE OF THE WELL DURING THE TEST. IF THE WELL FAILS THE TEST PROTOCOL, DESIGN OF THE WATER SYSTEM SHALL BE RE-EVALUATED AND SUBMITTED TO THE DEPARTMENT FOR APPROVAL.
(3-30-07)

b. UPON COMPLETION OF WELL DEVELOPMENT, THE WELL SHALL BE TESTED FOR SAND PRODUCTION. FIFTEEN (15) MINUTES AFTER THE START OF THE TEST PUMPING (AT OR ABOVE THE DESIGN PRODUCTION RATE), THE SAND CONTENT OF A NEW WELL SHALL NOT BE MORE THAN FIVE (5) PARTS PER MILLION. SAND PRODUCTION SHALL BE MEASURED BY A CENTRIFUGAL SAND SAMPLER OR OTHER MEANS ACCEPTABLE TO THE DEPARTMENT. IF SAND PRODUCTION EXCEEDS FIVE (5) PPM, THE WELL SHALL BE SCREENED GRAVEL PACKED, OR RE-DEVELOPED. (3-30-07)

c. THE FOLLOWING DATA SHALL BE PROVIDED: (5-3-03)

i. STATIC WATER LEVEL IN THE WELL PRIOR TO TEST PUMPING; (5-3-03)

ii. WELL YIELD IN GPM AND DURATION OF THE PUMP TEST, INCLUDING A DISCUSSION OF ANY DISCREPANCY BETWEEN THE DESIRED YIELD AND THE YIELD OBSERVED DURING THE TEST; (5-3-03)

iii. WATER LEVEL IN THE WELL RECORDED AT REGULAR INTERVALS DURING PUMPING; (5-3-03)

iv. PROFILE OF WATER LEVEL RECOVERY FROM THE PUMPING LEVEL PROJECTED TO THE ORIGINAL STATIC WATER LEVEL. (5-3-03)

v. DEPTH AT WHICH THE TEST PUMP WAS POSITIONED IN THE WELL; (5-3-03)

vi. TEST PUMP CAPACITY AND HEAD CHARACTERISTICS; (5-3-03)

vii. SAND PRODUCTION DATA. (5-3-03)

viii. RESULTS OF ANALYSIS BASED ON THE DRAWDOWN AND RECOVERY TEST PERTAINING TO AQUIFER PROPERTIES, LONG TERM SUSTAINED YIELD, AND BOUNDARY CONDITIONS AFFECTING DRAWDOWN. (4-7-11)

Pitless Adaptor Installation Instructions

IDAPA 58.01.08.511.08

08. PITLESS ADAPTERS AND UNITS. PITLESS ADAPTERS OR PITLESS UNITS: (3-30-07)

A. SHALL BE OF THE TYPE MARKED APPROVED BY THE NATIONAL SANITATION FOUNDATION OR PITLESS ADAPTER DIVISION OF THE WATER SYSTEMS COUNCIL. (12-10-92)

B. SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED TO BE WATERTIGHT INCLUDING THE CAP, COVER, CASING EXTENSION AND OTHER ATTACHMENTS. (12-10-92)

C. SHALL BE FIELD TESTED FOR LEAKS BEFORE BEING PUT INTO SERVICE. THE PROCEDURE OUTLINED IN "MANUAL OF INDIVIDUAL AND NON-PUBLIC WATER SUPPLY SYSTEMS," REFERENCED IN SUBSECTION 002.02, OR OTHER PROCEDURE APPROVED BY THE DEPARTMENT SHALL BE FOLLOWED. (3-30-07)

D. PITLESS ADAPTERS WITH A TWO (2) INCH OR SMALLER DISCHARGE LINE SHALL BE PROVIDED WITH A SWING JOINT OUTSIDE THE PITLESS ADAPTER UNIT TO REDUCE STRAIN, DEFORMATION, AND POSSIBLE LEAKAGE OF THE PITLESS SEAL CAUSED BY SETTLING SOILS IN THE TRENCH. THE ORIENTATION OF SWING JOINTS SHALL BE SUCH THAT ANY SETTLING THAT OCCURS WILL TIGHTEN THE THREADS. THE HOLE IN THE CASING SHALL BE CUT WITH A SAW RATHER THAN A TORCH WITH AN OPENING LARGE ENOUGH TO ALLOW SEATING OF GASKETS. (3-30-07)

E. SHALL BE PROVIDED WITH A CONTAMINATION-PROOF ENTRANCE CONNECTION FOR ELECTRICAL CABLE. (3-30-07)

F. IN THE CASE OF PITLESS ADAPTERS: (3-30-07)
I. THREADED ADAPTERS SHALL BE INSTALLED BY DRILLING A HOLE NOT MORE THAN ONE QUARTER (1/4) INCH LARGER THAN THE OUTER DIAMETER OF THE PITLESS SHANK. NO TORCH-CUT HOLES SHALL BE ACCEPTED. THE ORIENTATION OF SWING JOINTS SHALL BE SUCH THAT ANY SETTLING THAT OCCURS WILL TIGHTEN THE THREADS. (3-30-07)
II. THE ONLY FIELD WELDING PERMITTED WILL BE THAT NEEDED TO CONNECT A PITLESS ADAPTER TO THE CASING. (3-30-07)

G. IN THE CASE OF PITLESS UNITS: (3-30-07)
I. SHALL BE SHOP-FABRICATED FROM THE POINT OF CONNECTION WITH THE WELL CASING TO THE UNIT CAP OR COVER. (3-30-07)
II. SHALL BE CONSTRUCTED OF MATERIALS AND WEIGHT AT LEAST EQUIVALENT TO AND COMPATIBLE WITH THE WELL CASING. (3-30-07)
III. SHALL BE THREADED OR WELDED TO THE WELL CASING. THREADED UNITS SHALL BE INSTALLED BY DRILLING A HOLE NOT MORE THAN ONE QUARTER (¼) INCH LARGER THAN THE OUTER DIAMETER OF THE PITLESS SHANK. NO TORCH-CUT HOLES SHALL BE ACCEPTED. IF THE CONNECTION TO THE CASING IS BY FIELD WELD, THE SHOP-ASSEMBLED UNIT MUST BE DESIGNED SPECIFICALLY FOR FIELD WELDING TO THE CASING. (3-30-07)
IV. SHALL TERMINATE AT LEAST EIGHTEEN (18) INCHES ABOVE FINAL GROUND ELEVATION OR THREE (3) FEET ABOVE THE 100-YEAR FLOOD LEVEL OR THE HIGHEST KNOWN FLOOD ELEVATION, WHICHEVER IS HIGHER, OR AS OTHERWISE APPROVED BY THE DEPARTMENT. (3-30-07)
V. SHALL BE PROVIDED WITH ACCESS TO DISINFECT THE WELL. (3-30-07)
VI. SHALL HAVE FIELD CONNECTION TO THE LATERAL DISCHARGE FROM THE PITLESS UNIT OF THREADED, FLANGED, OR MECHANICAL JOINT CONNECTION. (3-30-07)

H. AFTER INSTALLATION OF A PITLESS ADAPTER OR UNIT, THE DISTURBED WELL SEAL SHALL BE REPAIRED OR REPLACED TO MEET ORIGINAL SEAL SPECIFICATIONS UNLESS OTHERWISE PROPOSED BY THE DESIGN ENGINEER AND APPROVED BY THE DEPARTMENT. THE ENGINEERING PROPOSAL SHALL ENSURE THAT THE MATERIAL SURROUNDING THE FINAL SEAL IS MOISTURE CONTROLLED AND COMPACTED SUCH THAT IT EQUALS OR EXCEEDS THE CHARACTERISTICS OF THE NATIVE SOIL PRIOR TO BEING DISTURBED. (4-4-13)

Water Notes

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STANDARDS, THE 2012 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE UNIFORM PLUMBING CODE, THE CITY OF TWIN FALLS AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. THE WELL SHALL BE CONSTRUCTED, TESTED, INSPECTED, AND PROPER RECORDS RECORDED IN ACCORDANCE WITH IDAPA 37.03.09., 58.01.03., AND 51.01.08. THE WELL DRILLER AND PUMP INSTALLER SHALL BE FAMILIAR WITH AND MAINTAIN THIS SECTION OF IDAPA CODE ON SITE DURING INSTALLATION.
3. ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE ENGINEER.
4. COMPONENTS, MATERIALS AND DISINFECTION CHEMICALS INCORPORATED INTO POTABLE WATER SYSTEM INSTALLATIONS, INCLUDING SERVICE LINES, MUST BE COMPLIANT WITH ANSI/NSF STANDARD 60/61.
5. ALL FITTINGS, SERVICE LINES, VALVE BOXES AND LIDS, SHALL BE OF MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE AFOREMENTIONED STANDARDS, AWWA, AND UTILIZE LOW LEAD (<0.25% LEAD BY WEIGHT) COMPLIANT MATERIALS. FLOW-MEASURING DEVICES, VALVES, PITLESS ADAPTORS, PUMPS AND MOTORS MUST BE AWWA COMPLIANT AND ANSI/NSF 61 CERTIFIED, INTENDED FOR POTABLE USE SHALL BE NSF CERTIFIED PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL PROVIDE APPURTENANCES TO PERFORM PRESSURE TEST AND DISINFECTION AS REQUIRED BY STANDARDS.
7. CONSTRUCTION SHALL NOT INTERRUPT SERVICE WITHOUT PRIOR DISTRICT APPROVALS AND PROPER NOTIFICATION. TEMPORARY SERVICE FEEDS MAY BE REQUIRED AND MUST HAVE PRIOR AGENCY APPROVAL. ANY SHUT-OFF OF WATER SERVICE DURING INSTALLATION OF NEW SERVICE AS WELL AS ACCESS AND OTHER UTILITY FEEDS TO EXISTING ADJACENT FACILITIES SHALL BE COORDINATED WITH AFFECTED USERS BY THE CONTRACTOR TO AVOID THE LEAST POSSIBLE INCONVENIENCE TO ADJACENT FACILITIES. UNDER NO CIRCUMSTANCE SHALL EMERGENCY VEHICLE ACCESS BE INTERRUPTED TO ANY ADJACENT PARCEL.
8. MAINTAIN 48" MIN. COVER OVER ALL MAINS AND OVER ALL SERVICE LINES.
9. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS LISTED ON THIS SHEET, SEE WATER SEPARATION NOTES.
10. THE WELL DRILLER SHALL MAINTAIN ACCURATE GEOLOGICAL DATA THAT INCLUDES, BUT NOT LIMITED TO, GEOGRAPHICAL LOCATION (LAT & LONG), DRILL HOLE DIAMETERS, DEPTHS, SIZE AND LENGTH OF CASING, SCREENS AND LINERS, GROUTING DEPTHS, FORMATIONS PENETRATED, AND WATER LEVELS IN ACCORDANCE WITH IDAPA 58.01.08.510.03.d.
11. UPON COMPLETION OF WELL THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER FOR SUBMISSION TO DEQ:
    - 11.1. WELL COMPLETION REPORT
    - 11.2. PUMP TEST REPORT
    - 11.3. DISINFECTION TEST RESULTS
    - 11.4. PRESSURE TEST RESULTS
    - 11.5. PLUMBNESS & ALIGNMENT REPORT
    - 11.6. DRILLER'S LOG INCLUDING DATA ON CONSTRUCTION PROGRESS, FORMATIONS, WATER LEVELS, AND SAMPLING.
    - 11.7. REPORTS SHALL BE SUBMITTED IN ACCORDANCE WITH IDAPA 58.01.08.510.05.
12. SHOULD THE SOURCE NEED TO BE ABANDONED FOR ANY REASON, IT MUST BE ABANDONED IN ACCORDANCE WITH IDWR REQUIREMENTS.

11. WELL CONNECTION TO THE SYSTEM MAY COMMENCE UPON WRITTEN APPROVAL FROM DEQ.

New Water Main Cleaning Notes

A. CLEAN AND DISINFECT WATER-DISTRIBUTION PIPING AS FOLLOWS:

1. PURGE NEW WATER-DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USE.

2. USE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED BY AUTHORITIES HAVING JURISDICTION, USE PROCEDURE DESCRIBED IN NFPA 24 FOR FLUSHING OF PIPING. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT POINTS OF OUTLET.

3. USE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED BY AUTHORITIES HAVING JURISDICTION, USE PROCEDURE DESCRIBED IN AWWA C651 OR DO AS FOLLOWS:

a. FILL SYSTEM OR PART OF SYSTEM WITH WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PPM OF CHLORINE; ISOLATE AND ALLOW TO STAND FOR 24 HOURS.
b. AFTER STANDING TIME, FLUSH SYSTEM WITH CLEAN POTABLE WATER UNTIL NO CHLORINE REMAINS IN WATER COMING FROM SYSTEM.
c. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION, ONE SAMPLE AFTER FLUSHING AND A SECOND ONE 24 HOURS AFTER FIRST IS COLLECTED. REPEAT PROCEDURE IF BIOLOGICAL EXAMINATION SHOWS EVIDENCE OF CONTAMINATION.

B. PREPARE REPORTS OF PURGING AND DISINFECTING ACTIVITIES.

FLUSHING NOTES: 1. SHOULD BE POTENTIAL FOR FLUSH WATER GO OFF SITE, THE FLUSH WATER MUST BE DECHLORINATED TO OBTAIN A MAXIMUM CHLORINE CONCENTRATION OF 0.12 PPM.

2. SHOULD THERE BE A POTENTIAL FOR FLUSH WATER TO ENTER A WATER OF THE STATE OR U.S. THEN A TEMPORARY NPDES EXEMPTION WILL BE NECESSARY. CONTACT TWIN FALLS DEQ.

3. FLUSHING SHALL OCCUR FROM THE NEW FLUSHING HYDRANT TO BE PLACED ALONG 1800 SOUTH, CARRIED IN A FIRE HOSE TO DISCHARGE INTO THE ABANDONED CANAL OR OTHER APPROVED MEANS.

Well Disinfection Requirements

IDAPA 58.01.08.510.04

04. DISINFECTION.
ALL TOOLS, BITS, PIPE, AND OTHER MATERIALS TO BE INSERTED IN THE BOREHOLE SHALL BE CLEANED AND DISINFECTED IN ACCORDANCE WITH THE WELL CONSTRUCTION STANDARDS AND PERMITTING REQUIREMENTS OF THE IDAHO WATER RESOURCES BOARD, REFERENCED IN SUBSECTION 002.02 THIS APPLIES TO NEW WELL CONSTRUCTION AND REPAIR OF EXISTING WELLS.
(3-30-07)

Quality Control & Testing

ALL MATERIAL SAMPLING AND TESTING SHALL BE ACCOMPLISHED BY THE ENGINEER OR A LABORATORY INDEPENDENT OF THE MATERIAL SUPPLIER APPROVED BY THE ENGINEER.

THE FOLLOWING APPLICABLE MATERIAL TESTING WILL BE REQUIRED:

1. SOILS AND GRAVEL COMPACTION:
   FREQUENCY IN TRENCH; EVERY 300LF, 12"LIFTS, 95% OF
   ASTM D 698, STANDARD PROCTOR DENSITY OF SOIL AND SOIL AGGREGATE IN PLACE
   ASTM D 2922, NUCLEAR METHODS.
2. WATER MAIN PRESSURE TEST
   ALL LINES
   ISPWC SECTION 401, 3.6 (1.5*WORKING PRESSURE, 2HOURS)
3. WATER MAIN CLEANING
   ALL NEW OR ALTERED LINES
   SEE NOTES ON THIS SHEET

Plumbness & Alignment Testing

A. WELLS IN UNCONSOLIDATED FORMATIONS WHICH ARE LESS THAN 100 FEET IN DEPTH ARE EXEMPT FROM TESTING.
B. FINAL PLUMBNESS AND ALIGNMENT TEST SHALL BE CONDUCTED IN THE PRESENCE OF OWNER'S REPRESENTATIVE.
C. PLUMBNESS & ALIGNMENT SHALL BE TESTED BY LOWERING A 40' DUMMY TO A DEPTH GREATER THAN THE LOWEST ANTICIPATED PUMP SETTING.
   1. OUTER DIAMETER OF DUMMY SHALL NOT BE MORE THAN ½" SMALLER THAN THE DIAMETER OF CASING OR HOLE BEING TESTED.
   2. DUMMY SHALL CONSIST OF A RIGID SPINDEL WITH THREE RINGS, EACH RING BEING 12" LONG.
      2.1. RINGS SHALL BE CYLINDRICAL AND SHALL BE FASTENED AT THE ENDS AND CENTER OF SPINDEL.
D. TOLERANCES
   1. DUMMY SHALL MOVE FREELY THROUGHOUT THE LENGTH OF THE CASING OR HOLE TO THE REQUIRED DEPTH.
   2. WELL SHALL NOT VARY FROM THE VERTICAL IN EXCESS OF ⅔ THE SMALLEST INSIDE DIAMETER OF THAT PART OF THE WELL BEING TESTED PER 100' OF DEPTH.
   3. PLUMBNESS & ALIGNMENT EXCEEDING TOLERANCES SHALL BE CORRECTED, FAILURE OF CORRECTION SHALL BE CAUSE TO REJECT WELL.

IDAPA 58.01.08.542.07 - SEPARATION OF POTABLE, NON-POTABLE, AND RAW WATER PIPELINES

07. SEPARATION OF POTABLE, NON-POTABLE, AND RAW WATER PIPELINES. THE REQUIREMENTS FOR THE PROTECTION OF POTABLE MAINS FROM CONTAMINATION BY NON-POTABLE PIPELINES ARE DESCRIBED IN SUBSECTIONS 542.07.a. THROUGH 542.07.c. FOR THE PURPOSES OF SUBSECTION 542.07, THE TERM "PIPELINE" APPLIES TO BOTH MAINS AND SERVICES. THE DEPARTMENT WILL USE THE MEMORANDUM OF UNDERSTANDING WITH THE PLUMBING BUREAU AS GUIDANCE IN DETERMINING THE RELATIVE RESPONSIBILITIES FOR REVIEWING SERVICE LINES. THE CONDITIONS OF SUBSECTIONS 542.07.a. AND 542.07.b. SHALL APPLY TO ALL POTABLE SERVICES CONSTRUCTED OR RECONSTRUCTED AFTER APRIL 15, 2007 AND WHERE THE DEPARTMENT OR THE QLPE IS THE REVIEWING AUTHORITY. RAW WATER PIPELINES MUST BE PROTECTED FROM CONTAMINATION FROM NON-POTABLE PIPELINES, AND MUST NOT CONTAMINATE POTABLE PIPELINES. THEY SHALL THEREFORE MEET EQUIVALENT SEPARATION DISTANCES SHOWN BELOW FROM EITHER POTABLE OR NON-POTABLE PIPELINES. (4-4-13)

a. PARALLEL INSTALLATION REQUIREMENTS. (5-8-09)

i. POTABLE MAINS IN RELATION TO NON-POTABLE MAINS. (5-8-09)

(1) GREATER THAN TEN (10) FEET SEPARATION: NO ADDITIONAL REQUIREMENTS. (4-4-13)

(2) TEN (10) FEET TO SIX (6) FEET SEPARATION: SEPARATE TRENCHES, WITH THE BOTTOM OF THE POTABLE MAIN ABOVE THE TOP OF THE NON-POTABLE MAIN, AND NON-POTABLE MAIN CONSTRUCTED WITH POTABLE WATER CLASS PIPE. (4-4-13)

(3) LESS THAN SIX (6) FEET SEPARATION: DESIGN ENGINEER TO SUBMIT DATA TO THE DEPARTMENT FOR REVIEW AND APPROVAL SHOWING THAT THIS INSTALLATION WILL PROTECT PUBLIC HEALTH AND THE ENVIRONMENT, NON-POTABLE MAIN TO BE CONSTRUCTED OF POTABLE WATER CLASS PIPE, AND WITH THE BOTTOM OF THE POTABLE MAIN ABOVE THE TOP OF THE NON-POTABLE MAIN. (4-4-13)

(4) NON-POTABLE MAINS ARE PROHIBITED FROM BEING LOCATED IN THE SAME TRENCH AS POTABLE MAINS.(3-30-07)

(5) PRESSURE WASTEWATER MAINS OR OTHER PRESSURIZED MAINS OR LINES CONTAINING NON-POTABLE FLUIDS SHALL BE NO CLOSER HORIZONTALLY THAN TEN (10) FEET FROM POTABLE MAINS. (4-7-11)

ii. NEW POTABLE SERVICES IN RELATION TO NON-POTABLE SERVICES, NEW POTABLE SERVICES IN RELATION TO NON-POTABLE MAINS, AND NEW NON-POTABLE SERVICES IN RELATION TO POTABLE MAINS. (5-8-09)

(1) GREATER THAN SIX (6) FEET SEPARATION: NO ADDITIONAL REQUIREMENTS BASED ON SEPARATION DISTANCE.(5-8-09)

(2) LESS THAN SIX (6) FEET SEPARATION: DESIGN ENGINEER TO SUBMIT DATA THAT THIS INSTALLATION WILL PROTECT PUBLIC HEALTH AND THE ENVIRONMENT AND NON-POTABLE SERVICE CONSTRUCTED WITH POTABLE WATER CLASS PIPE. (5-8-09)

(3) NEW POTABLE SERVICES ARE PROHIBITED FROM BEING LOCATED IN THE SAME TRENCH AS NON-POTABLE MAINS OR NON-POTABLE SERVICES. (5-8-09)

b. REQUIREMENTS FOR POTABLE WATER MAINS OR SERVICES CROSSING NON-POTABLE WATER MAINS OR SERVICES. (4-4-13)

i. IF THERE IS EIGHTEEN (18) INCHES OR MORE VERTICAL SEPARATION WITH THE POTABLE WATER PIPELINE ABOVE THE NON-POTABLE PIPELINE, THEN THE POTABLE PIPELINE JOINTS MUST BE AS FAR AS POSSIBLE FROM THE NON-POTABLE WATER PIPELINE. (4-7-11)

ii. IF THERE IS EIGHTEEN (18) INCHES OR MORE VERTICAL SEPARATION WITH THE POTABLE WATER PIPELINE BELOW THE NON-POTABLE PIPELINE, THEN THE POTABLE PIPELINE JOINTS MUST BE AS FAR AS POSSIBLE FROM THE NON-POTABLE PIPELINE, AND THE NON-POTABLE PIPELINE MUST BE SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING. (4-7-11)

iii. LESS THAN EIGHTEEN (18) INCHES VERTICAL SEPARATION: (5-8-09)

(1) POTABLE PIPELINE JOINT TO BE AS FAR AS POSSIBLE FROM THE NON-POTABLE PIPELINE; AND EITHER:(5-8-09)

(a) NON-POTABLE PIPELINE CONSTRUCTED WITH POTABLE WATER CLASS PIPE FOR A MINIMUM OF TEN (10) FEET EITHER SIDE OF POTABLE PIPELINE WITH A SINGLE TWENTY (20) FOOT SECTION OF POTABLE WATER CLASS PIPE CENTERED ON THE CROSSING; OR(5-8-09)

(b) SLEEVE NON-POTABLE OR POTABLE PIPELINE WITH POTABLE WATER CLASS PIPE FOR TEN (10) FEET EITHER SIDE OF CROSSING. USE OF HYDRAULIC CEMENTITIOUS MATERIALS SUCH AS CONCRETE, CONTROLLED DENSITY FILL, AND CONCRETE SLURRY ENCASEMENT IS NOT ALLOWED AS A SUBSTITUTE FOR SLEEVING. (5-8-09)

(2) IF POTABLE PIPELINE IS BELOW NON-POTABLE PIPELINE, THE NON-POTABLE PIPELINE MUST ALSO BE SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING. (5-8-09)

iv. PRESSURE WASTEWATER MAINS OR OTHER PRESSURIZED MAINS OR LINES CONTAINING NON-POTABLE FLUIDS SHALL BE NO CLOSER VERTICALLY THAN EIGHTEEN (18) INCHES FROM POTABLE MAINS. (4-7-11)

c. EXISTING POTABLE SERVICES IN RELATION TO NEW NON-POTABLE MAINS, EXISTING NON-POTABLE SERVICES IN RELATION TO NEW POTABLE MAINS, AND EXISTING POTABLE SERVICES IN RELATION TO NEW NON-POTABLE SERVICES SHALL MEET THE REQUIREMENTS OF SUBSECTION 542.07.b., WHERE PRACTICAL, BASED ON COST, CONSTRUCTION FACTORS, AND PUBLIC HEALTH SIGNIFICANCE. IF THE DEPARTMENT DETERMINES THAT THERE ARE SIGNIFICANT HEALTH CONCERNS WITH THESE SERVICES, SUCH AS WHERE A LARGE EXISTING SERVICE SERVES AN APARTMENT BUILDING OR A SHOPPING CENTER, THEN THE DESIGN SHALL CONFORM WITH SUBSECTION 542.07.b. (5-8-09)

MAINLINE SEPARATION DETAIL

REQUIRED MAINLINE SEPARATIONS: PER IDAPA 58.01.08 – IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEM.

WATER AND NON-POTABLE WATER MAINS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NO LESS THAT TEN(10) FEET. IN ANY INSTANCE WHERE SUCH SEPARATION IS NOT ACHIEVABLE, THE FOLLOWING STANDARDS SHALL BE MET:
THE WATER AND NON-POTABLE WATER MAINS SHALL BE SEPARATED BY AT LEAST SIX (6) HORIZONTAL FEET MEASURED BETWEEN THE OUTSIDE WALLS OF THE PIPES, AND THE SEWER MAIN SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
THE WATER MAIN SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE SEWER MAIN.
THE REQUIREMENTS FOR VERTICAL SEPARATION OF WATER AND SEWER MAINS ARE AS FOLLOWS:
AT ANY POINT WHERE THE NON-POTABLE WATER AND WATER MAINS CROSS, THE SHALL BE SEPARATED BY A VERTICAL DISTANCE OF NO LESS THAN EIGHTEEN (18) INCHES.
AT ANY POINT WHERE THE NON-POTABLE WATER MAIN CROSSES ABOVE THE WATER MAIN, THE NON-POTABLE WATER MAIN

AT ANY POINT WHERE THE NON-POTABLE WATER AND WATER MAINS CROSS, THE WATER MAIN SHALL BE CENTERED AT THE CROSSING SO THAT THE JOINTS WILL BE AN EQUAL DISTANCE AS FAR AS POSSIBLE FROM THE NON-POTABLE WATER MAIN. IF THE WATER MAIN IS BELOW THE NON-POTABLE WATER MAIN, THE NON-POTABLE WATER MAIN SHALL BE CONSTRUCTED OF MATERIALS CONFORMING TO WATER MAIN STANDARDS IF THE EIGHTEEN (18) INCH VERTICAL SEPARATION CAN NOT BE

ALL OTHER PIPELINES WHICH CARRY NON-POTABLE LIQUIDS SHALL MEET THE MINIMUM SEPARATION REQUIREMENTS LIST ABOVE.

VERTICAL SEPARATION REQUIREMENTS

HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1: A) WATER AND NPWL MUST BE SEPARATED BY AT LEAST 18 INCHES.
AND B) ONE FULL, UNCUT LENGTH OF WATER PIPE MUST BE CENTERED OVER THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NPWL.

ZONE 2: A) ONE FULL, UNCUT LENGTH OF WATER PIPE MUST BE CENTERED OVER THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NON-POTABLE MAIN.
AND EITHER B) NPWL MAIN MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF CROSSING.
OR C) THE WATERMAIN SHALL BE SLEEVED WITH PVC CLASS 160 POTABLE WATER PIPE W/ ENDS SEALED WITH FERNCO COUPLER OR OTHER WATER TIGHT SEAL. THE SEALS

ZONE 3:) SAME REQUIREMENTS AS ZONE 2 EXCEPT THAT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4:) SAME REQUIREMENTS AS ZONE 1 EXCEPT THAT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 1: NO SPECIAL REQUIREMENTS.

ZONE 2: A) WATER AND NPWL SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS.
AND B) WATER AT LEAST 18 INCHES HIGHER IN ELEVATION THAT THE NPWL.
AND EITHER C) NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS.
OR D) THE WATERMAIN SHALL BE SLEEVED WITH PVC CLASS 160 POTABLE WATER PIPE W/ ENDS SEALED WITH FERNCO COUPLER OR OTHER WATER TIGHT SEAL. THE SEALS SHALL BE PRESSURE TESTED AT 100 PSI.
OR E) SITE SPECIFIC REQUIREMENTS APPROVED BY DEQ.

ZONE 3: NOT ALLOWED

NOTE: SANITARY SEWER FORCE MAINS MUST HAVE A MIN. 10 FEET HORIZONTAL SEPARATION AND 18 INCH VERTICAL SEPARATION. ZONE 2 AND ZONE 3 PLACEMENTS NOT ALLOWED.

STANDARD PENETRATION DETAIL

N.T.S.

NOTE: WELL CONSTRUCTION SHALL ADHERE TO THE REQUIREMENTS OF IDAPA 37.03.09 & 58.01.08.510 & .511. A COPY OF THESE RULES SHALL BE ON SITE.

PUMP SPECIFICATIONS					
TDH (ft)	GPM (min)	PUMP TYPE	RPM	POWER	HP
360	220	SUBMERSIBLE	3600	3 PHASE 480V	20

PRODUCTION WELL DETAIL

N.T.S.

NOTE: WELL CONSTRUCTION SHALL ADHERE TO THE REQUIREMENTS OF IDAPA 37.03.09 & .03 AND 58.01.08.510 & .511. A COPY OF THESE RULES SHALL BE ON SITE. VACUUM BREAKER-AIR RELIEF VALVE MAY BE REQUIRED.

INJECTION WELL DETAIL

N.T.S.

MANHOLE BASE SECTION A-A

N.T.S.

WELL MANHOLE DETAIL A

N.T.S.

DETAIL B

N.T.S.

PROFESSIONAL ENGINEER
LICENSED
14924
2/11/2022
STATE OF IDAHO
DAVID L. THIBAULT

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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #:
EHM PROJECT #: 351-21

DRAWN BY: __
CHECKED BY: DT

BID SET

DRAWING NO.:
W.2

IDAPA 58.01.08.542.07
Separation of Potable, Non-Potable, and Raw Water Pipelines

07. Separation of Potable, Non-Potable, and Raw Water Pipelines. The requirements for the protection of potable mains from contamination by non-potable pipelines are described in Subsections 542.07.a. through 542.07.c. For the purposes of Subsection 542.07, the term "pipeline" applies to both mains and services. The Department will use the Memorandum of Understanding with the Plumbing Bureau as guidance in determining the relative responsibilities for reviewing service lines. The conditions of Subsections 542.07.a. and 542.07.b. shall apply to all potable services constructed or reconstructed after April 15, 2007 and where the Department or the QLPE is the reviewing authority. Raw water pipelines must be protected from contamination from non-potable pipelines, and must not contaminate potable pipelines. They shall therefore meet equivalent separation distances shown below from either potable or non-potable pipelines. (4-4-13)

a. Parallel installation requirements. (5-8-09)

i. Potable mains in relation to non-potable mains. (5-8-09)

(1) Greater than ten (10) feet separation: no additional requirements. (4-4-13)

(2) Ten (10) feet to six (6) feet separation: separate trenches, with the bottom of the potable main above the top of the non-potable main, and non-potable main constructed with potable water class pipe. (4-4-13)

(3) Less than six (6) feet separation: design engineer to submit data to the Department for review and approval showing that this installation will protect public health and the environment, non-potable main to be constructed of potable water class pipe, and with the bottom of the potable main above the top of the non-potable main. (4-4-13)

(4) Non-potable mains are prohibited from being located in the same trench as potable mains. (3-30-07)

(5) Pressure wastewater mains or other pressurized mains or lines containing non-potable fluids shall be no closer horizontally than ten (10) feet from potable mains. (4-7-11)

ii. New potable services in relation to non-potable services, new potable services in relation to non-potable mains, and new non-potable services in relation to potable mains. (5-8-09)

(1) Greater than six (6) feet separation: no additional requirements based on separation distance. (5-8-09)

(2) Less than six (6) feet separation: design engineer to submit data that this installation will protect public health and the environment and non-potable service constructed with potable water class pipe. (5-8-09)

(3) New potable services are prohibited from being located in the same trench as non-potable mains or non-potable services. (5-8-09)

b. Requirements for potable water mains or services crossing non-potable water mains or services. (4-4-13)

i. If there is eighteen (18) inches or more vertical separation with the potable water pipeline above the non-potable pipeline, then the potable pipeline joints must be as far as possible from the non-potable water pipeline. (4-7-11)

ii. If there is eighteen (18) inches or more vertical separation with the potable water pipeline below the non-potable pipeline, then the potable pipeline joints must be as far as possible from the non-potable pipeline, and the non-potable pipeline must be supported through the crossing to prevent settling. (4-7-11)

iii. Less than eighteen (18) inches vertical separation: (5-8-09)

(1) Potable pipeline joint to be as far as possible from the non-potable pipeline; and either: (5-8-09)

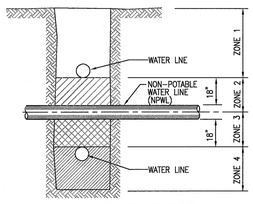
(a) Non-potable pipeline constructed with potable water class pipe for a minimum of ten (10) feet either side of potable pipeline with a single twenty (20) foot section of potable water class pipe centered on the crossing; or (5-8-09)

(b) Sleeve non-potable or potable pipeline with potable water class pipe for ten (10) feet either side of crossing. Use of hydraulic cementitious materials such as concrete, controlled density fill, and concrete slurry encasement is not allowed as a substitute for sleeving. (5-8-09)

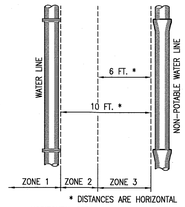
(2) If potable pipeline is below non-potable pipeline, the non-potable pipeline must also be supported through the crossing to prevent settling. (5-8-09)

iv. Pressure wastewater mains or other pressurized mains or lines containing non-potable fluids shall be no closer vertically than eighteen (18) inches from potable mains. (4-7-11)

c. Existing potable services in relation to new non-potable mains, existing non-potable services in relation to new potable mains, and existing potable services in relation to new non-potable services shall meet the requirements of Subsection 542.07.b., where practical, based on cost, construction factors, and public health significance. If the Department determines that there are significant health concerns with these services, such as where a large existing service serves an apartment building or a shopping center, then the design shall conform with Subsection 542.07.b. (5-8-09)



VERTICAL SEPARATION REQUIREMENTS



HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1: A) WATER AND NPWL MUST BE SEPARATED BY AT LEAST 18 INCHES AND B) ONE FULL, UNCUT LENGTH OF PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

ZONE 2: A) ONE FULL, UNCUT LENGTH OF BOTH PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

AND EITHER B) NPWL MAIN MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF CROSSING.

OR C) EITHER THE NPWL OR WATER LINE OR BOTH MUST BE ENCASED WITH A SLEEVING MATERIAL ACCEPTABLE TO DEQ FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING.

ZONE 3:) SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NPWL ALSO MUST BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4:) SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 1: NO SPECIAL REQUIREMENTS.

ZONE 2: A) NO SPECIAL REQUIREMENTS FOR POTABLE OR NON-POTABLE SERVICES.

B) WATER AND NPWL SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS.

AND C) WATER AT LEAST 18 INCHES HIGHER IN ELEVATION THAT THE NPWL. WATER TIGHTNESS.

AND EITHER D) NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS.

OR E) SITE SPECIFIC REQUIREMENTS APPROVED BY DEQ.

ZONE 3: NOT ALLOWED WITHOUT DEQ WAIVER.

NOTE: SANITARY SEWER FORCE MAINS MUST HAVE MIN. 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION. ZONE 2 AND ZONE 3 PLACEMENTS ARE NOT ALLOWED WITHOUT A WAIVER GRANTED BY DEQ.

Mainline Separation Detail
Per 2017 ISPWC SD407

Water Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STANDARDS, THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, THE UNIFORM PLUMBING CODE, AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STDS.
2. ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE ENGINEER.
3. COMPONENTS, MATERIALS AND DISINFECTION CHEMICALS INCORPORATED INTO POTABLE WATER SYSTEM INSTALLATIONS, INCLUDING SERVICE LINES, MUST BE COMPLIANT WITH ANSI/NSF STANDARD 60/61.
4. ALL FITTINGS, SERVICE LINES, VALVE BOXES AND LIDS, SHALL BE OF MATERIALS AND CONSTRUCTION APPROVED BY THE CITY OF JEROME. FLOW-MEASURING DEVICES INTENDED FOR POTABLE USE SHALL BE NSF CERTIFIED PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL PROVIDE APPURTENANCES TO PERFORM PRESSURE TEST AND DISINFECTION AS REQUIRED BY STANDARDS.
6. CONSTRUCTION SHALL NOT INTERRUPT SERVICE WITHOUT PRIOR CITY APPROVALS AND PROPER NOTIFICATION. TEMPORARY SERVICE FEEDS MAY BE REQUIRED AND MUST HAVE PRIOR AGENCY APPROVAL. ANY SHUT-OFF OF WATER SERVICE DURING INSTALLATION OF NEW SERVICE AS WELL AS ACCESS AND OTHER UTILITY FEEDS TO EXISTING ADJACENT FACILITIES SHALL BE COORDINATED WITH AFFECTED USERS BY THE CONTRACTOR TO AVOID THE LEAST POSSIBLE INCONVENIENCE TO ADJACENT FACILITIES. UNDER NO CIRCUMSTANCE SHALL EMERGENCY VEHICLE ACCESS BE INTERRUPTED TO ANY ADJACENT PARCEL.
7. ALL UTILITY SERVICE FEEDS SHALL BE VERIFIED FOR CONFORMANCE WITH THE ARCHITECT'S PLANS. THE CONTRACTOR SHALL EXTEND ALL UTILITY FEEDS TO WITHIN 5' OF THE BUILDING AT THE ARCHITECT'S TIE-IN POINTS.
8. MAINTAIN 36" MIN. COVER OVER ALL MAINS AND 42" MIN. COVER OVER ALL SERVICE LINES.
9. AN APPROVED BACKFLOW PREVENTER SHALL BE INSTALLED ON FIRE LINE(S).
10. ALL DRYWELLS SHALL BE INSTALLED TO MAINTAIN A MIN. SEPARATION OF 25' FROM POTABLE MAINS.
11. ALL APPLICABLE MATERIALS INCLUSIVE OF RESILIENT SEAT GATE VALVES TO BE LOW LEAD COMPLIANT (A MAX. OF 0.25% LEAD BY WEIGHT) AND MUST BE UTILIZED WHERE APPLICABLE DURING CONSTRUCTION.
12. CONTRACTOR SHALL INSTALL HYDRANTS AND THRUST BLOCK SYSTEMS IN ACCORDANCE WITH THE AFOREMENTIONED CONSTRUCTION STANDARDS.
13. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Water Main Cleaning

A. Clean and disinfect water-distribution piping as follows:
   1. Purge new water-distribution piping systems and parts of existing systems that have been altered, extended, or repaired before use.
   2. Use purging and disinfecting procedure prescribed by authorities having jurisdiction or, if method is not prescribed by authorities having jurisdiction, use procedure described in AWWA C651 or do as described in ISPWC or as follows:
      a. Fill system or part of system with water/chlorine solution containing at least 50 ppm of chlorine; isolate and allow to stand for 24 hours.
      b. After standing time, flush system with clean, potable water until no chlorine remains in water coming from system.
      c. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat procedure if biological examination shows evidence of contamination.
      d. Two biological samples must be collected from each sample location twenty-four hours apart and be deemed bacteria absent by a certified lab prior to potable operation. If one of the samples is found to be bacteria positive at a location then two consecutive clean samples collected twenty-four hours apart must be obtained from that location before public use.

B. Prepare reports of purging and disinfecting activities.

Flushing Note: Flushing shall occur from a fire hydrant at the northwest corner of construction and carried in a fire hose that discharges into a retention basin.

General Notes:

1. THE CONTRACTOR SHALL HAVE A CURRENT SET OF CONSTRUCTION PLANS STAMPED BY THE ENGINEER WITH AN APPROVAL STAMP BY THE CITY AND DEQ AT THE WORKSITE.
2. ALL CONSTRUCTION SHALL CONFORM TO THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, AND ALL OTHER LOCAL, STATE AND FEDERAL AGENCIES WHICH ARE APPLICABLE UNLESS OTHERWISE SHOWN.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM RUNOFF AND OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH SITE CONSTRUCTION. THE CONTRACTOR, AND EACH SUBCONTRACTOR, SHALL BE RESPONSIBLE FOR THE CLEAN-UP AND REMOVAL FROM THE JOB-SITE ANY TRASH OR EXCESS MATERIAL CREATED BY THE PERFORMANCE OF THEIR WORK. SUCH MATERIAL SHALL BE PLACED IN A DUMPSTER OR SIMILAR DEVICE PROVIDED BY THE CONTRACTOR OR TRANSPORTED FROM THE JOB-SITE.
4. RECORDED AND/OR FILED SURVEY MONUMENTS EXIST WITHIN THE LIMITS OF THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT OR HAVE REPLACED ANY DISTURBED/DESTROYED MONUMENTS.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE, INGRESS AND EGRESS.
6. THE CONTRACTOR SHALL REMOVE AND SORT ALL ON-SITE EXCAVATED NATIVE MATERIAL AND USE SUITABLE MATERIAL AS NEEDED WHERE FILL IS REQUIRED. FILL SHALL BE PLACED AND COMPACTED BY METHODS APPROVED BY THE CITY OF TWIN FALLS AND THE DESIGN ENGINEER. ALL STRIPPINGS NOT SUITABLE FOR FILL SHALL BE USED AS DIRECTED BY THE ENGINEEER OR DISCARDED OFF-SITE AT THE CONTRACTOR'S EXPENSE. REMOVAL OF SUITABLE MATERIAL NOT NEEDED ON SITE SHALL BE COORDINATED WITH THE OWNER.
7. EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND.
8. AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL "DIGLINE" 48 HOURS PRIOR TO BEGINNING WORK. COORDINATE TIE-INS WITH APPROPRIATE UTILITY COMPANIES.
9. THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT ALL EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
10. ALL CHANGES REQUIRE APPROVAL BY THE PROJECT ENGINEER AND THE CITY ENGINEER. THE ENGINEER TAKES NO RESPONSIBILITY FOR ANY DEVIATIONS FROM THESE PLANS UNLESS AUTHORIZED, IN WRITING, BY THE ENGINEER.
11. IDAHO CODE 39-118 REQUIRES IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ) APPROVAL PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE CONFORMANCE WITH THESE PLANS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILL OUT AND SUBMIT A NOTICE OF INTENT (NOI) TO EPA AND HAVE A COPY OF THE POLLUTION PREVENTION PLAN AVAILABLE AT THE JOBSITE PRIOR TO CONST. SEE WEBSITE http://cfpub.epa.gov/npdes/stormwater/cgp.cfm.
13. CONTRACTOR SHALL INSTALL PIPE BEDDING AND TRENCH SYSTEMS IN CONFORMANCE WITH THE AFOREMENTIONED DESIGN STANDARDS.

Sanitary Sewer Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STD'S., THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. ALL TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH STANDARDS.
3. ALL SEWER MAINS AND FITTINGS TO BE CONSTRUCTED OUT OF ASTM D 3034-89, SDR 35 PVC PIPE.
4. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Pressure Irrigation Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH TEN STATES STD'S., THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, AND ALL OTHER APPLICABLE AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. ALL PRESSURE IRRIGATION MAINS SHALL BE PVC ASTM D 2241 (SDR-PR) CLASS 200, SDR 21 OR BETTER.
3. ALL PRESSURE IRRIGATION SERVICES SHALL CONFORM TO ISPWC STD. DWG. SD-902.
3. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

Gravity Irrigation & Drainage Notes:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NORTH SIDE CANAL CO. (NSCC), THE 2020 IDAHO STANDARDS. FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF JEROME, AND ALL OTHER APPLICABEL AGENCIES UNLESS OTHERWISE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE STANDARDS.
2. ALL TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH STANDARDS.
3. ALL IRRIGATION AND STORM DRAIN MAINS SHALL BE CONSTRUCTED OF MATERIALS AS NOTED ON THESE PLANS.
4. POTABLE & NON-POTABLE MAINLINE SEPARATIONS SHALL CONFORM TO IDAPA RULES AND REGULATIONS AS NOTED WITHIN THESE PLANS.

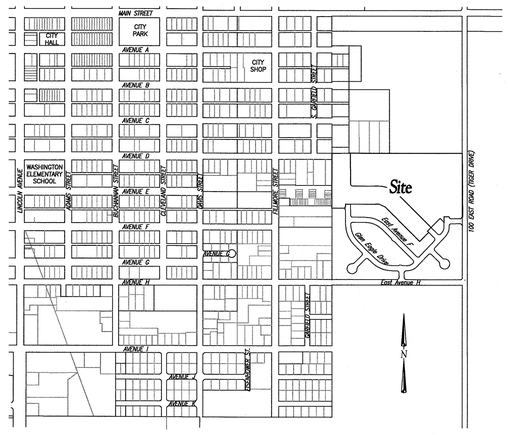
Glen Eagle Subdivision
Construction Plans

Site Data

OWNER:	JEROME SCHOOL DISTRICT NO. 261 125 4TH AVENUE WEST JEROME, ID 83338 (208) 208-324-2392 CONTACT: DR. PAT CHARLTON
ENGINEER:	EHM ENGINEERS, INC. 621 N. COLLEGE RD., SUITE 100 TWIN FALLS, ID 83301 (208) 734-4888 CONTACT: TIM VAWSER
EXISTING USE:	VACANT
PROPOSED USE:	SINGLE FAMILY RESIDENTIAL DEV.
EXISTING ZONE:	R-2, P.U.D.
VARIANCE:	NONE REQUESTED
BENCHMARK:	5/8" REBAR WITH ORANGE CAP AT THE INTERSECTION OF GLEN EAGLE DRIVE. 200' W. OF TIGER DR. ELEV. = 3828.77.
IRRIGATION:	EXTENSION OF EXISTING SYSTEM FOR ALL LOTS EXCEPT SCHOOL PARCEL WHICH WILL BE A PRIVATE PUMP STATION.
STORMWATER:	STORM WATER FOR PROJECT SHALL BE DETAINED ON SITE.
SEWER:	CITY OF JEROME MUNICIPAL SYSTEM.
WATER:	CITY OF JEROME MUNICIPAL SYSTEM.
UTILITIES:	UNDERGROUND JOINT TRENCH INCLUDING IDAHO POWER, INTERMOUNTAIN GAS, CABLE TV, LUMEN, AND PMT.
SETBACKS:	ALL BUILDING AND YARD SETBACKS WILL BE IN ACCORDANCE WITH THE CURRENT CITY OF JEROME ORDINANCES.
EASEMENTS:	AS DEPICTED ON FINAL PLAT.

Sheet Index

Vicinity Sketch:



EHM Engineers, Inc.
BUILDING THE FUTURE ON A FOUNDATION OF EXCELLENCE
Engineers / Surveyors / Planners
621 North College Road, Suite 100 Twin Falls, Idaho 83301
p (208)-734-4888 fax (208)-734-6049 web: ehminc.com

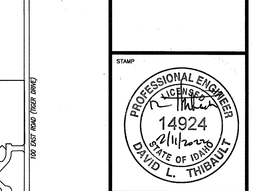
Cover Sheet For GLEN EAGLE Subdivision
Jerome, Idaho

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ENGINEER OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

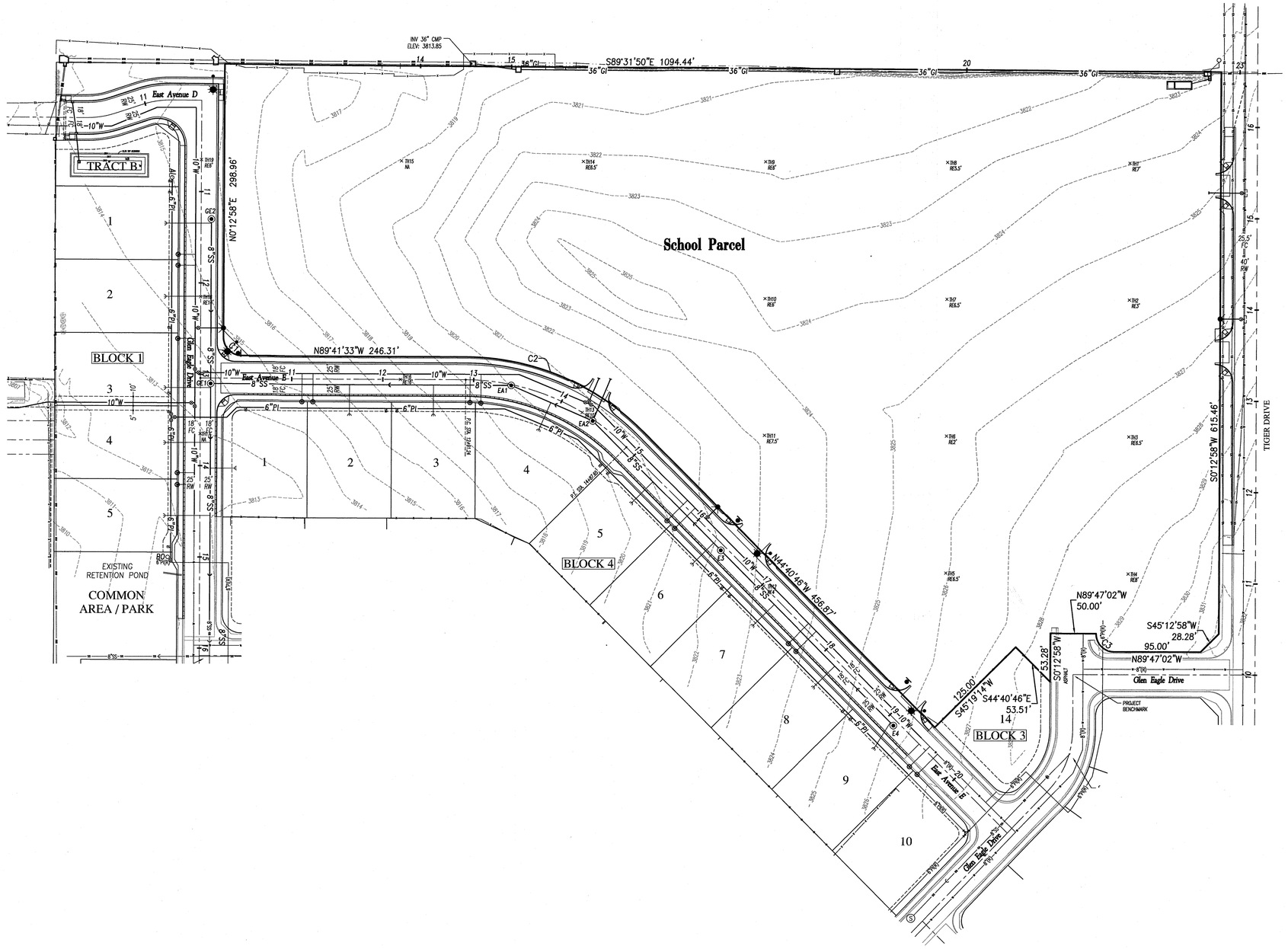
REVISIONS:
Water Per City 12-21-'21

STAMP



APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	FEB., 2022
SCALE	SHOWN
CAD FILE	352-21 BASE
JOB NO.	352-21

C - 1



Legend:

	EXISTING	PROPOSED
SUBDIVISION BOUNDARY LINE		
LOT LINE		
STREET CENTERLINE		
EASEMENT AS NOTED		
WATER MAIN	"W"	"W"
SEWER MAIN		
PRESSURE IRRIGATION		"PI"
GRAVITY IRRIGATION	IRR	"GI"
STORM DRAIN		"SD"
PERF. PIPE		"PP"
STANDARD CURB & GUTTER		
ROLL CURB & GUTTER		
CONTOUR LINE	3670	
MANHOLE	S	
FIRE HYDRANT		
GATE VALVE		
IRRIG. ASSEMBLY (AIR INJ. OR BLOWOFF)		AI BO
WATER SERVICE		W
SEWER SERVICE		
PRESSURE IRR. SERVICE		
SIGN		
LIGHT POLE		
CATCH BASIN		
DRAINAGE ARROW		

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Master Development Plan For

GLEN EAGLE Subdivision

Jerome, Idaho

DO NOT SCALE DRAWINGS

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REVISIONS:
Water Per City 12-21-'21

STAMP

PROFESSIONAL ENGINEER
LICENSED
14924
2/14/2022
STATE OF IDAHO
DAVID L. THIBAULT

APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	OCT., 2021
SCALE	SHOWN
CAD FILE	352-21 BASE
JOB NO.	352-21

7+81± – 27.5' RT. EXPOSE EXISTING 6" WATER MAIN & INSTALL 6" TO 10" REDUCER – EXTEND 10" MAIN TO EAST

8+00 – 33.6' RT. INSTALL 11 1/4° WATER MAIN ELBOW

8+31.5 – 27.5' RT. INSTALL 11 1/4° WATER MAIN ELBOW

9+68.00 – 43' RT. INSTALL 6"x6"x6" PI TEE W/ 3" – 6" R.W. GATE VALVES

9+94.00 – 27.5' RT. INSTALL 10"x10"x10" WATER TEE W/ 2 – 10" R.W. GATE VALVES AS SHOWN

9+94.00 – 6' LT. INSTALL 10"x10"x8" WATER TEE W/ 2 – 10" R.W. GATE VALVES AS SHOWN

10+28.05 – 43' RT. & 10+40.04 32' RT. INSTALL 45° PI ELBOW AT EA. LOCATION

INSTALL STOP AND STREET SIGNS PER MOTCD STANDARDS

13+40.43 – 27.73' RT. INSTALL 22 1/2° BB ELBOW

13+42.61 – 11.5' LT. INSTALL 22 1/2° WATER ELBOW

14+26.32– 11.26' LT. INSTALL 10"x6"x10" WATER TEE & 3 R.W. GATE VALVES

14+27.54 – 41.48' LT. END 8" WATER STUB – CAPPED DRY W/ MARKER

14+27.56 – LT. – CTR. OF 5' WIDE APPROACH W/ 20' RADII & 6" V. GUTTER (ACCESSIBLE RAMPS PER ISPWC STD. DWG. SD-712C – TY. 4)

14+32.06– 47.51' LT. END 8" SEWER STUB – CAP & MARKER REQUIRED (STUB 50 LF @ +0.80% INV. = 13.96)

14+32.40– 12.8' LT. INSTALL 22 1/2° WATER ELBOW

14+38.28 – 27.68' RT. INSTALL 22 1/2° PI ELBOW

16+05.00 – 25' LT. INSTALL FIRE HYDRANT W/ 6" R.W. G. VALVE – CL FLANGE EL. = 22.35

INSTALL STOP SIGN PER MUTCD STDS.

16+55.74 – LT. – CTR. OF 38' WIDE APPROACH W/ 20' RADII & 6" V. GUTTER (ACCESSIBLE RAMPS PER ISPWC STD. DWG. SD-712C – TY. 4)

INSTALL STOP SIGN PER MUTCD STDS.

19+05.37 – LT. – CTR. OF 25' WIDE APPROACH W/ 20' RADII & 6" V. GUTTER (ACCESSIBLE RAMPS PER ISPWC STD. DWG. SD-712C – TY. 4)

19+42.50± – 6' LT. EXPOSE EXISTING 8" WATER MAIN – INSTALL 8" TO 10" REDUCER & EXTEND 10" MAIN TO WEST

19+59.90± – 32' RT. EXPOSE EXISTING 6" PI MAIN & EXTEND TO WEST

CONTRACTOR TO COORDINATE OFFSITE WATER CONNECTION WITH PROPERTY OWNER. ALL EXISTING LANDSCAPING AND SURFACES TO BE REPAIRED TO EQUAL OR BETTER CONDITION AND TO THE OWNER'S SATISFACTION INCLUDING REMOVAL OF TREES WHICH SHALL INCLUDE TRUNKS AND ROOTS IN THE PIPE TRENCH.

N89°41'33"W 246.31'

N44°40'46"W 456.87'

BLOCK 1

BLOCK 4

East Avenue E

Glen Eagle Drive

+50.07 PI. SERV.
+11.39 WATER SERV.
+23.39 WATER SERV.
+63.56 SEWER SERV.
+03.74 PI. SERV.
+15.74 PI. SERV.
+55.89 SEWER SERV.
+66.60 WATER SERV.
+09.94 WATER SERV.
+89.03 SEWER SERV.
+80.77 PI. SERV.
+93.65 PI. SERV.
+35.06 SEWER SERV.
+76.47 WATER SERV.
+88.47 WATER SERV.
+29.87 SEWER SERV.
+71.28 PI. SERV.
+83.28 PI. SERV.
+24.67 SEWER SERV.
+66.07 WATER SERV.
+78.07 WATER SERV.
+19.47 SEWER SERV.
+60.88 PI. SERV.
+72.88 PI. SERV.
+14.27 SEWER SERV.
+55.67 WATER SERV.
+67.67 WATER SERV.

INSTALL STD. CURB & GUTTER (SD-701) W/ 5' SIDEWALK – LT. / INSTALL ROLL CURB & GUTTER (SD-704) W/ 5' SIDEWALK – RT. WITH ASPHALT ROADWAY PER DTL. SHT. DT-1 WITH APPROACHES WHERE NOTED.

10+17.97 14.40PITC LT. 10+37.94 14.65TC LT.
10+18.03 14.24PITC RT. 10+38.06 14.54TC RT. 10+48.06 14.62TRC RT.
11+00.00 V.G.B. 15.44TC LT. / 15.39TRC RT.
12+00.00 / 17.24TC LT. / 17.19TRC RT.
13+00.00 B.V.C. 20.75TC LT. / 20.70TRC RT.
15+50.00 21.12TC LT. / 21.07TRC RT.
16+00.00 E.V.C. 21.69TC LT. / 21.64TRC RT.
17+00.00 23.03TC LT. / 22.98TRC RT.
18+00.00 24.37TC LT. / 24.32TRC RT.
19+00.00 25.66TRC RT.
19+37.81 V.G.B. LT. 26.22TC LT.
19+42.17 MATCH EXIST. 26.39TRC LT.
19+45.20 V.G.B. RT. MATCH EXIST. 26.27TRC RT.

13+50.00 V.P.I. 19.89 RT. / 19.94 LT.
14+00.55 20.27TC LT.
14+18.51 20.31PITC LT.
14+41.01 20.43PITC LT.
14+52.85 20.52TC LT.
16+18.73 21.94TC LT.
16+36.77 22.18PITC LT.
16+74.70 22.69PITC LT.
16+94.70 22.96TC LT.
18+72.81 25.35TC LT.
18+92.88 25.61PITC LT.
19+17.88 25.95PITC LT.

15+50.00 V.P.I. 20.97 LT. / 21.02 RT.

EXIST. TRC @ +1.35% LT.
EXIST. TRC @ +1.50% RT.
+1.34% RT.
+2.52% LT.
10' STD. TO ROLL CURB TRANS. – LT.
+0.54% LT. & RT.
NAT. GROUND @ CL
100' V.C. LT. & RT.
+1.34% LT. & RT.
INSTALL 270 L.F. PVC SEWER MAIN
S = +1.20%
INSTALL 200 L.F. PVC SEWER MAIN
S = +1.80%
INSTALL 97.68 L.F. PVC SEWER MAIN
S = +1.02%
TOP OF STD. CURB – LT.
+1.80% LT. & RT.
100' V.C. LT. & RT.
10' STD. TO ROLL CURB TRANS. – RT.
+1.27% LT.
+1.48% RT.
TOP OF ROLL CURB – RT.
INSTALL 330 L.F. PVC SEWER MAIN
S = +1.00%

STA. 10+11.25 – 6.25' RT.
INSTALL SEWER MANHOLE GE1
RIM EL. = 3814.04
N. INV. EL. = 3808.60
S. INV. EL. = 3808.50
E. INV. EL. = 3808.83

STA. 13+41.79 – 0.93' RT.
INSTALL SEWER MANHOLE EA1
RIM EL. = 3819.61
W. INV. EL. = 3812.13
SE. INV. EL. = 3812.23

STA. 14+40.61 – 1.62' RT.
INSTALL SEWER MANHOLE EA2
RIM EL. = 3820.35
NW. INV. EL. = 3813.23
NE. INV. EL. = 3813.56
SE. INV. EL. = 3813.33

STA. 16+41.19 – 6' RT.
INSTALL SEWER MANHOLE EA3
RIM EL. = 3821.12
NW. INV. EL. = 3816.93
SE. INV. EL. = 3817.03

STA. 19+11.19 – 6' RT.
INSTALL SEWER MANHOLE EA4
RIM EL. = 3825.71
NW. INV. EL. = 3820.27

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00

3830 3825 3820 3815 3810 3805

PROFESSIONAL ENGINEER
DAVID L. THIBAULT
14924
STATE OF IDAHO
2/17/22

0 25 50 100
Scale In Feet

EHM Engineers, Inc.
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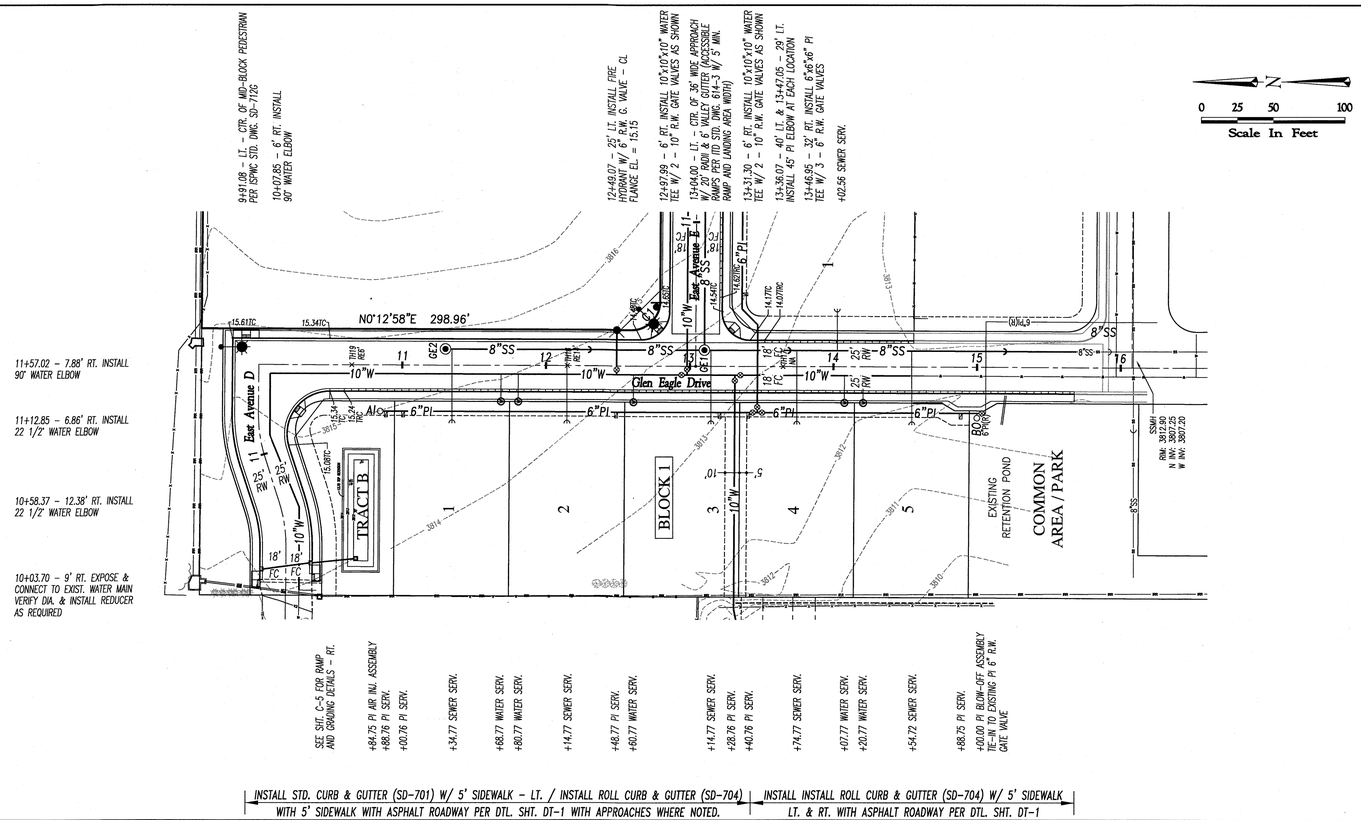
Construction Plan for East Avenue E
CLEN EAGLE Subdivision
Jerome, Idaho

APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	OCT., 2021
SCALE	AS SHOWN
DWG. NO.	352-21 BASE

Rev'd. Water Per City 12-21-'21



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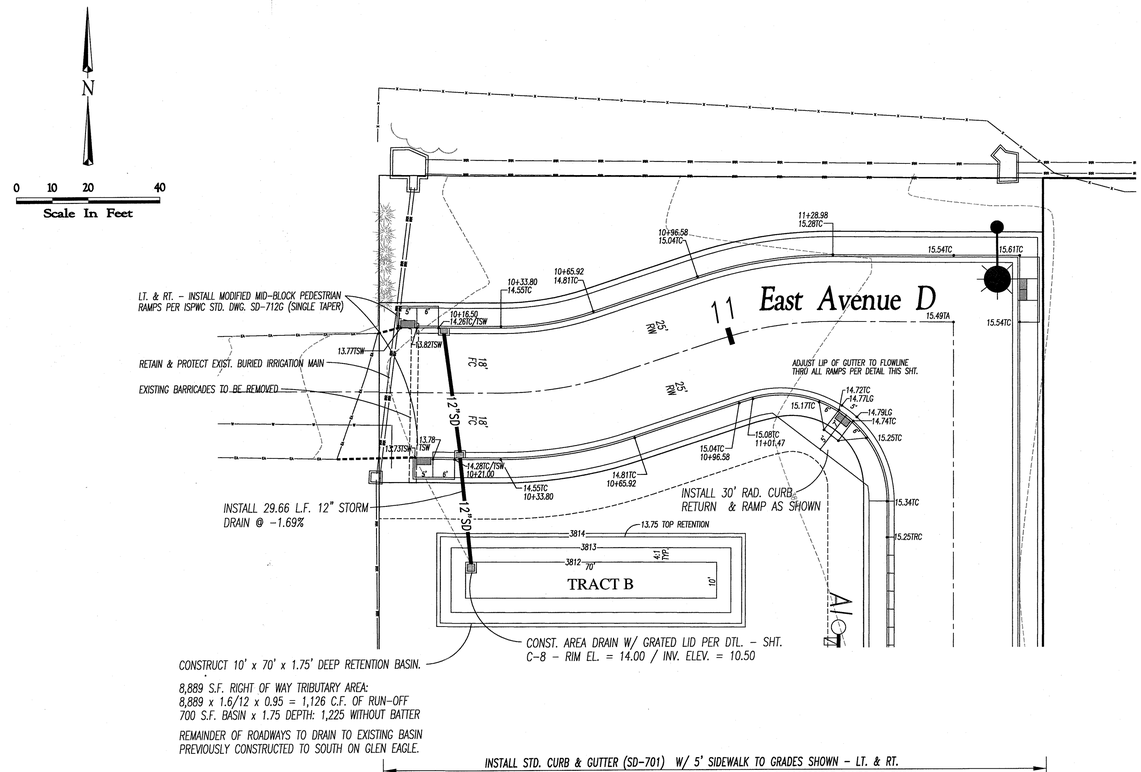
Construction Plan for Glen Eagle Drive
GLEN EAGLE Subdivision
Jerome, Idaho

APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	OCT., 2021
SCALE	AS SHOWN
DWG. NO.	352-21 BASE

Rev'd. Water Per City 12-21-'21

PROFESSIONAL ENGINEER LICENSED 14924 STATE OF IDAHO DAVID L. THIBAULT



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Construction Plan for East Avenue D
GLEN EAGLE Subdivision
Jerome, Idaho

APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	OCT., 2021
SCALE	AS SHOWN
DWG. NO.	352–21 BASE

PROFESSIONAL ENGINEER LICENSED 14924 STATE OF IDAHO DAVID L. THIBAULT

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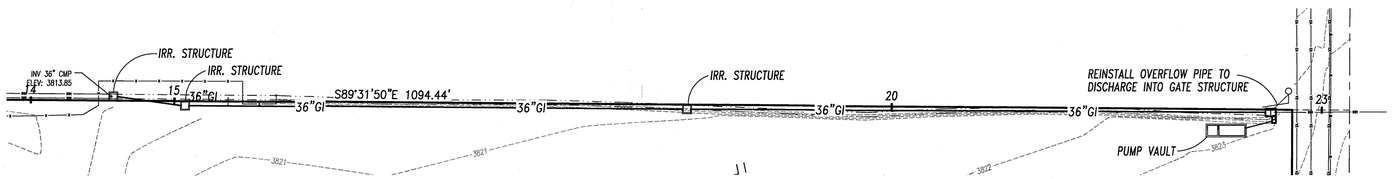
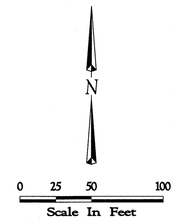
Construction Plan for Tiger Drive
CLEN EAGLE Subdivision
Jerome, Idaho

APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	OCT., 2021
SCALE	AS SHOWN
DWG. NO.	352-21 BASE

PROFESSIONAL ENGINEER
LICENSED
14924
STATE OF IDAHO
DAVID L. THIBAULT





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Construction Plan for North Boundary Irrigation
GLEN EAGLE Subdivision
Jerome, Idaho

APPROVED	
DESIGN	T. VAWSER
DRAWN	T. VAWSER
DATE	OCT., 2021
SCALE	AS SHOWN
DWG. NO.	352-21 BASE

INSTALL 36" GRAVITY IRRIGATION MAIN AND IRRIGATION BOXES WHERE NOTED

14+57.60
BEGIN IRRIGATION

BACKFILL TO A MIN.
OF 30" OF COVER

NAT. GROUND @ N. BOUNDARY

CONST. 350 L.F. 36" GRAVITY IRRIGATION
(ASTM F679 PS 46 PVC PIPE)
S = +0.40%

CONST. 406.95 L.F. 36" GRAVITY IRRIGATION
(ASTM F679 PS 46 PVC PIPE)
S = +0.40%

EXIST. 36" CMP

CONST. 50.37 L.F.
36" GRAVITY IRRIGATION
(ASTM F679 PS 46 PVC PIPE)
S = +0.60%

EXIST. 36" CMP

14+57.60 – 2.8' LT.
TIE INTO EXISTING IRRIGATION
CMP WITH NEW 5'x5' IRR. BOX
MATCH EXIST. INV. = 13.85

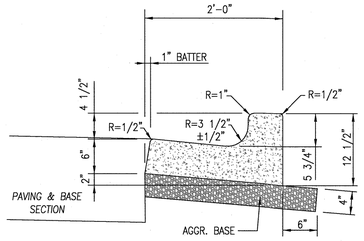
15+07.50 – 3.17' RT.
CONST. 5'x5' IRR. BOX
INV. ELEV. = 14.15

18+57.50 – 3.17' RT.
CONST. 5'x5' IRR. BOX
INV. ELEV. = 15.55

22+64.45 – 1.95' RT.
CONST. IRR. GATE STRUCTURE OVER EXIST. PIPE
TOP OF STRUCTURE ELEV. = 25.00
W. INV. ELEV. = 17.00
E. INV. ELEV. = 18.85 (MATCH EXIST.)
N. INV. ELEV. = (MATCH EXIST.)
SEE SHEET C-8 FOR ADDITIONAL DETAILS

14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00

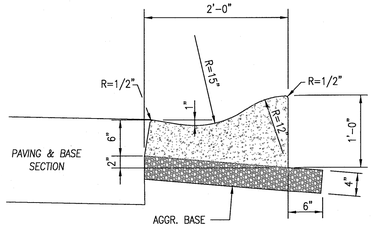
PROFESSIONAL ENGINEER
LICENSED
14924
STATE OF IDAHO
DAVID L. THIBAULT



6" Vert. Curb & Gutter Detail

CURB REF: I.S.P.W.C. STD. DWG. SD-701

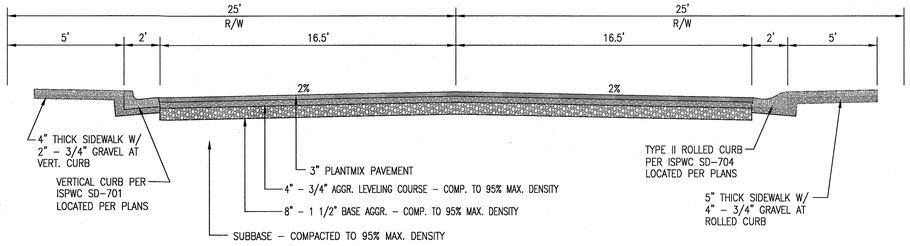
n.t.s.



Type II Curb & Gutter Detail

CURB REF: I.S.P.W.C. STD. DWG. SD-704

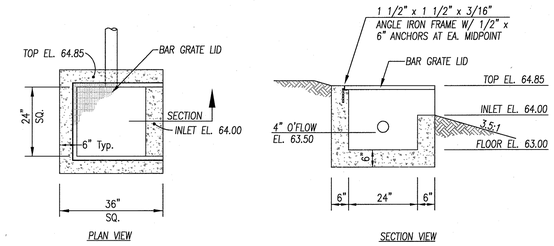
n.t.s.



NOTES: SUBBASE MATERIAL TO BE APPROVED BY THE ENGINEER PRIOR TO BASE AGGREGATE PLACEMENT. 3/4" AGGREGATE MAY BE SUBSTITUTED FOR 1 1/2" BASE AGGREGATE.

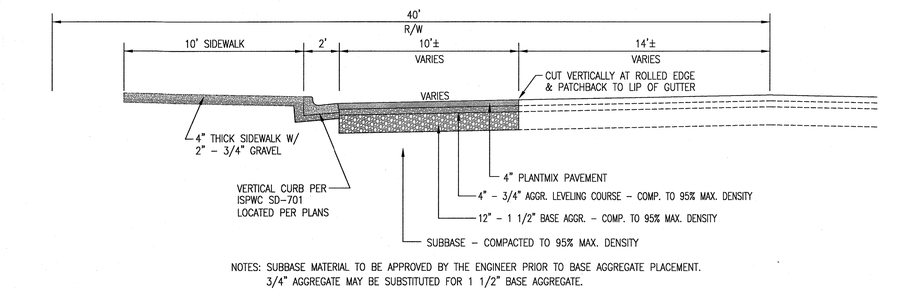
Typical Street Section
Glen Eagle Drive and East Avenue E

n.t.s.



Storm Drain Overflow Structure

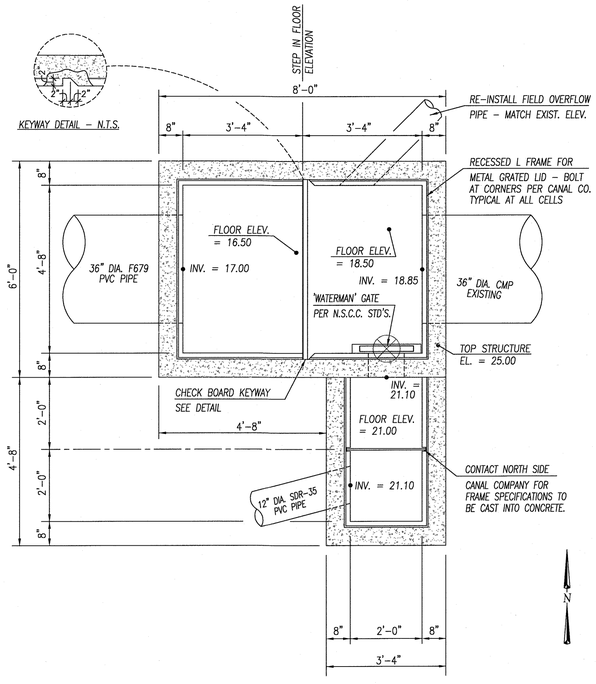
n.t.s.



NOTES: SUBBASE MATERIAL TO BE APPROVED BY THE ENGINEER PRIOR TO BASE AGGREGATE PLACEMENT. 3/4" AGGREGATE MAY BE SUBSTITUTED FOR 1 1/2" BASE AGGREGATE.

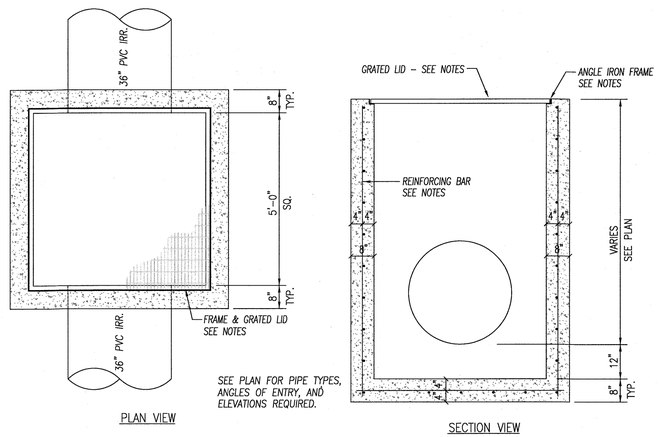
Typical Street Section
Tiger Drive

n.t.s.



IRRIGATION STRUCTURE IRR-15 DETAIL

n.t.s.



Typ. 5' X 5' Irrigation Structure

n.t.s.

IRRIGATION NOTES:

- ** PANEL OR V-NOTCH GATE PER CANAL COMPANY SPECIFICATION. GATE CAN BE BUILT BY THE CONTRACTOR OR MAY PURCHASED FROM THE NORTH SIDE CANAL COMPANY. WATERMAN GATES TO BE USED UNLESS AN APPROVED EQUAL IS AUTHORIZED BY THE CANAL COMPANY.
- ALL FLOORS TO BE 6" THICK & ALL WALLS OR AS DETAILED ON THIS DRAWING WITH NO. 4 REBAR AT 12" O.C. EACH WAY UNLESS OTHERWISE NOTED.
- LAP DISTANCE ON ALL #4 REINFORCING TO BE 22" MIN. UNLESS NOTED OTHERWISE.
- MIN. CONCRETE F'c = 3,000 PSI IN 28 DAYS / REBAR Fy = 60 KSI, GRADE 60
- ALL OTHER STRUCTURES NOT DETAILED ON THIS SHEET SHALL BE CONSTRUCTED AS NOTED (INSIDE DIMENSION) TO THE GRADES DEPICTED ON THE PLANS. ALL CONSTRUCTION SHALL BE SIMILAR TO THAT OF THE DETAILS ON THIS PAGE INCLUDING LIDS, REINFORCING, WITH A MIN. OF 6" WALL AND FLOOR THICKNESS. FLOOR ELEVATIONS OF ALL BOXES TO BE PLACED 6" LOWER THAN THE LOWEST FLOWLINE TO ACCEPT PIPE UNLESS NOTE OTHERWISE.
- ALL FRAMES SHALL BE CONSTRUCTED FROM 1 3/4"x1 3/4"x3/16" ANGLE IRON FRAME WITH 1/2"x6" WELD STUD ANCHORS @ 12" O.C. ALL AROUND.
- ALL LIDS SHALL BE CONSTRUCTED FROM 1 1/2"x3/16" BAR GRATE ON 1 3/16" SPACING. ALL LIDS SHALL BE STRUCTURALLY REINFORCED W/ 3/16" x 1 1/2" FLAT BAR ON ALL SIDES. HINGES SHALL BE PLACED ON BAR GRATING OVER CHECK BOARD AND V-NOTCH GATE TO ALLOW ACCESS FOR CHECK BOARD ADJUSTMENT AND MONITORING BY DITCH RIDER. ALL LIDS IN NON-SECURED AREAS SHALL BE BOLTED FIRMLY IN PLACE.
- BEDDING MATERIAL TO BE APPROVED 3/4" MAXIMUM BACKFILL IN CONFORMANCE WITH THE 2017 ISPWC OR AS APPROVED BY THE NORTH SIDE CANAL COMPANY. BEDDING UNDER IRRIGATION STRUCTURES TO BE 4" MINIMUM IN CONFORMANCE WITH THE 2020 ISPWC.
- ALL CAST IN PLACE STRUCTURES SHALL HAVE GREENSTREAK #679 WATERSTOP INSTALLED CONTINUOUSLY BETWEEN VERTICAL WALLS AND FLOOR SLABS. WATERSTOP SHALL BE WELDED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

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Misc. Details For
GLEN EAGLE Subdivision
Jerome, Idaho

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ENGINEER OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

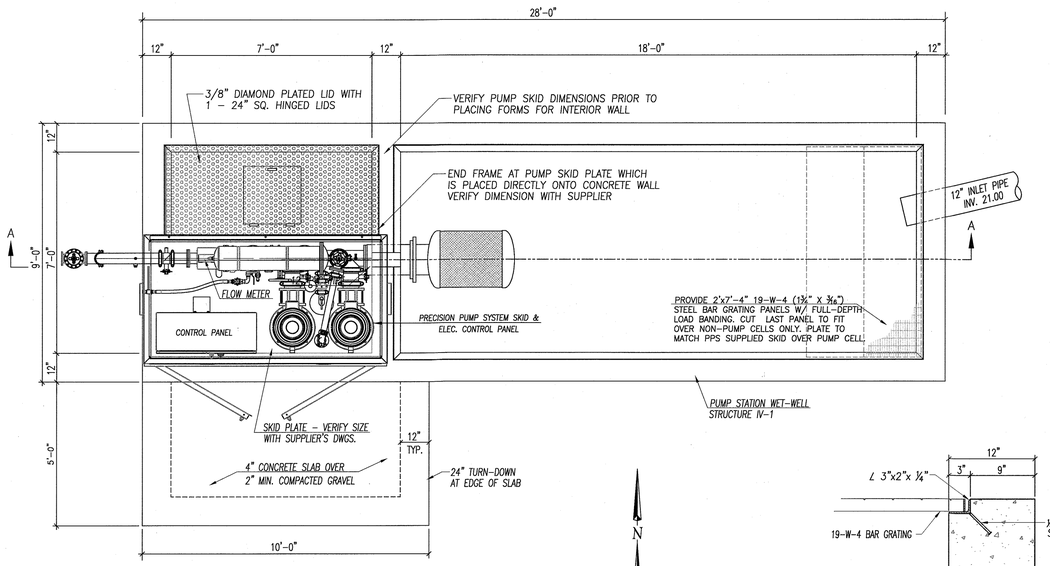
REVISIONS:

STAMP

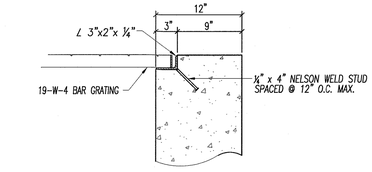
PROFESSIONAL ENGINEER — LICENSED — 14924 — STATE OF IDAHO — DAVID L. THIBAULT

APPROVED	
DESIGN	T. Vawser
DRAWN	T. Vawser
DATE	OCT., 2021
SCALE	Not To Scale
CAD FILE	352-21 Base
JOB NO.	352-21

PUMP SYSTEM TO BE SUPPLIED BY JEROME SCHOOL DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FORMING OF VAULT TO ACHIEVE APPROPRIATE BEARING AREA OF PUMP SKID.



PLAN VIEW



Grated Frame Detail:

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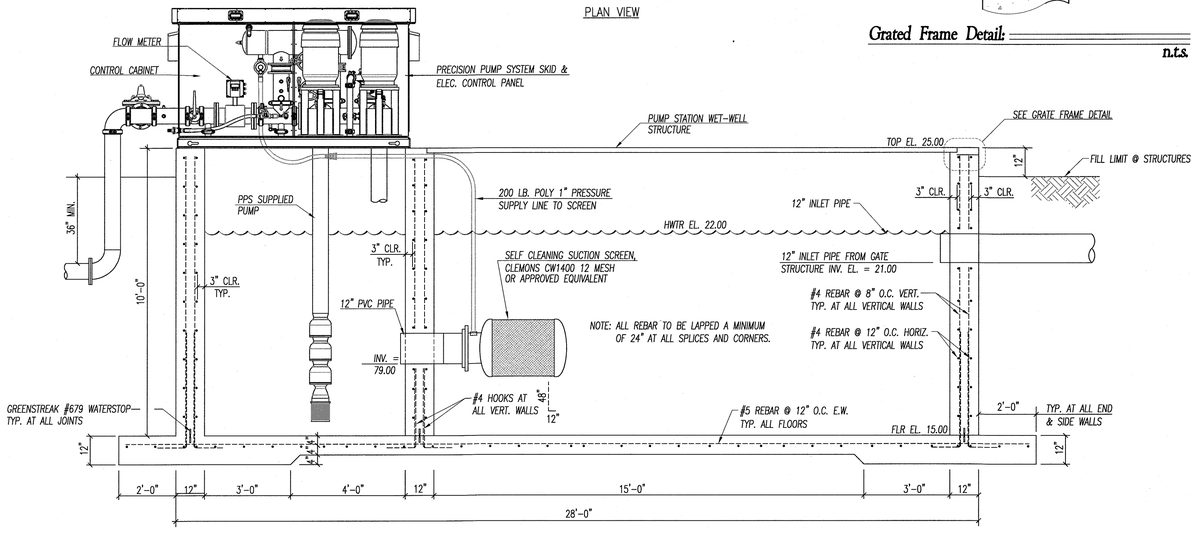

SECTION A–A

Pump Station Details

n.t.s.

PREFABRICATED VARIABLE SPEED PUMP STATION SPECS. & REQUIREMENTS:

Design Data:

Total Shares in Station = 13.4 NSCC
*13.4 Shares/50 Miner's Inches*0.625 Miner's Inch/Share = 0.1675 CFS = 75.17 GPM*

Pump Station Criteria:

120 GPM Discharge at 180' TDH
Pump Filter and Clemons Self-Cleaning Screens Required
Main Line Tie In Check Valves Required
Flow Meter w/ Totalizer Required
Meter Base and Main Electrical Disconnect
Variable Frequency Drive on Motor
PLC Programmer in Lockable Control Panel
477V – 3 Phase Power – Availability to be Verified.

Qualifications:

The VFD pump control system shall be manufactured and installed by trained and certified technicians.

The pump station manufacturer shall employ certified service technicians that are trained in service on the pump station, including the VFD/PLC control system.

Pump Control System:

The UL listed control panel shall include variable frequency drives inverters (VFD), and programmable logic controllers (PLC).

The VFD pump control panel shall be manufactured and listed by a UL508 Panel Shop The panel shall be UL labeled as an "Enclosed Industrial Control Panel". The pump control panel shall be completely manufactured, tested and programmed prior to delivery to the job site. A wiring schematic and pump(s) nameplate information shall be permanently affixed to the inside of the control enclosure.

The VFD and associate electrical equipment shall be mounted in a UL Type 3R enclosure for outdoor installation. The cooling system shall prevent the VFD from reaching high ambient temperatures, which will cause temperature faults or warnings. The cooling system shall not allow dust and/or dirt inside the pump control panel.

Variable Frequency Drives (VFD):

The VFDs shall be appropriately sized to meet the FLA, full load amps, required by the pump motor as stated on the motor nameplate.

Pressure Transducer:

A stainless steel pressure transducer shall continually monitor system pressure. A 4–20 mA or 1–10v signal shall be transmitted to the VFD – the VFD shall react according to pre–programmed criteria.

Programmable Logic Controller (PLC):

The control panel door shall include a PLC with a digital operator interface. The operator interface shall have an alpha/numeric display with a minimum of 64 characters. The operator interface shall allow the used to make adjustment to the PLC program locally, without requiring any additional equipment, such as a laptop computer. The VFD control keypad is not an acceptable substitution for the digital operator interface.

The PLC shall be fully programmed prior to pump panel installation.

The PLC and operator interface shall provide (at a minimum) the flowing functions:
**Display run status of all pumps*
**Display systems pressure with password protected set point control*
**Display any fault condition and log fault with time and date stamp*
**Display motor run hours–User re–settable*
**Pre–programmed start–up routines for initial start–up, mainline fill, power outages, and re–start after a system fault*
**Allow user to adjust operating variables and timing functions such as low pressure, high pressure, low water, start–up pressure and ramp time, and restart delays*
**VFD bypass routine to allow emergency pressure differential operation of pumps if the VFD fails–User selectable*
**Control of automatic valve supplying intake screen system*
**Display of options such as flow and total flow*

Disconnect Switch:

A circuit breaker disconnect switch shall be integrated into the pump control panel and shall be the disconnect means for the equipment.

Overcurrent Protection:

The VFD bridge rectifiers shall be protected from over current by appropriately sized circuit breakers.

Thermal Overload:

In case of VFD failure, the pump control panel shall include a magnetic starter, which consists of a contactor, circuit breaker, and thermal overload, so that the motor may be operated across–the–line manually until the VFD is repaired or replaced.

Voltage and Phase Monitoring

The Pump Control Panel shall monitor incoming power and automatically disconnection power if it does not meet specified criteria. A magnetic contactor disconnect to the VFD shall be required. The system shall have an automatic re–start routine when the power returns to normal.

Lighting and Surge Protection:

The Pump Control Panel shall be equipped with transient voltage and surge arrestors.

Pre-programmed Start-up Routines:

The PLC shall be programmed with various start–up routines that limit and/or delay, the starting, and acceleration of the pump to ensure that excessive velocity and pressure do not damage and distribution system. The program shall include individual routines for initial start–up, mainline fill, re–start after a power outage, and re–start after a system fault. The operator shall be able to adjust the timing of the routines via the operator interface.

High Discharge Pressure Switch:

The pump system shall be equipped with a high–pressure switch.

Low Water Shutdown:

The pump control panel shall include field terminals for a low water probe control relay. If the water level reaches a low level, the control relay will send a signal to the PLC and signal a low water shutdown. The system shall automatically restart when the water levels return to normal.

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Pressure Irrigation Vault Details For
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Jerome, Idaho

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REVISIONS:

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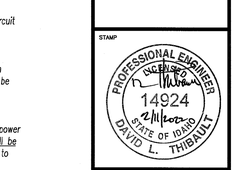

APPROVED	
DESIGN	T. Vawser
DRAWN	T. Vawser
DATE	OCT., 2021
SCALE	Not To Scale
CAD FILE	352–21 Base
JOB NO.	352–21

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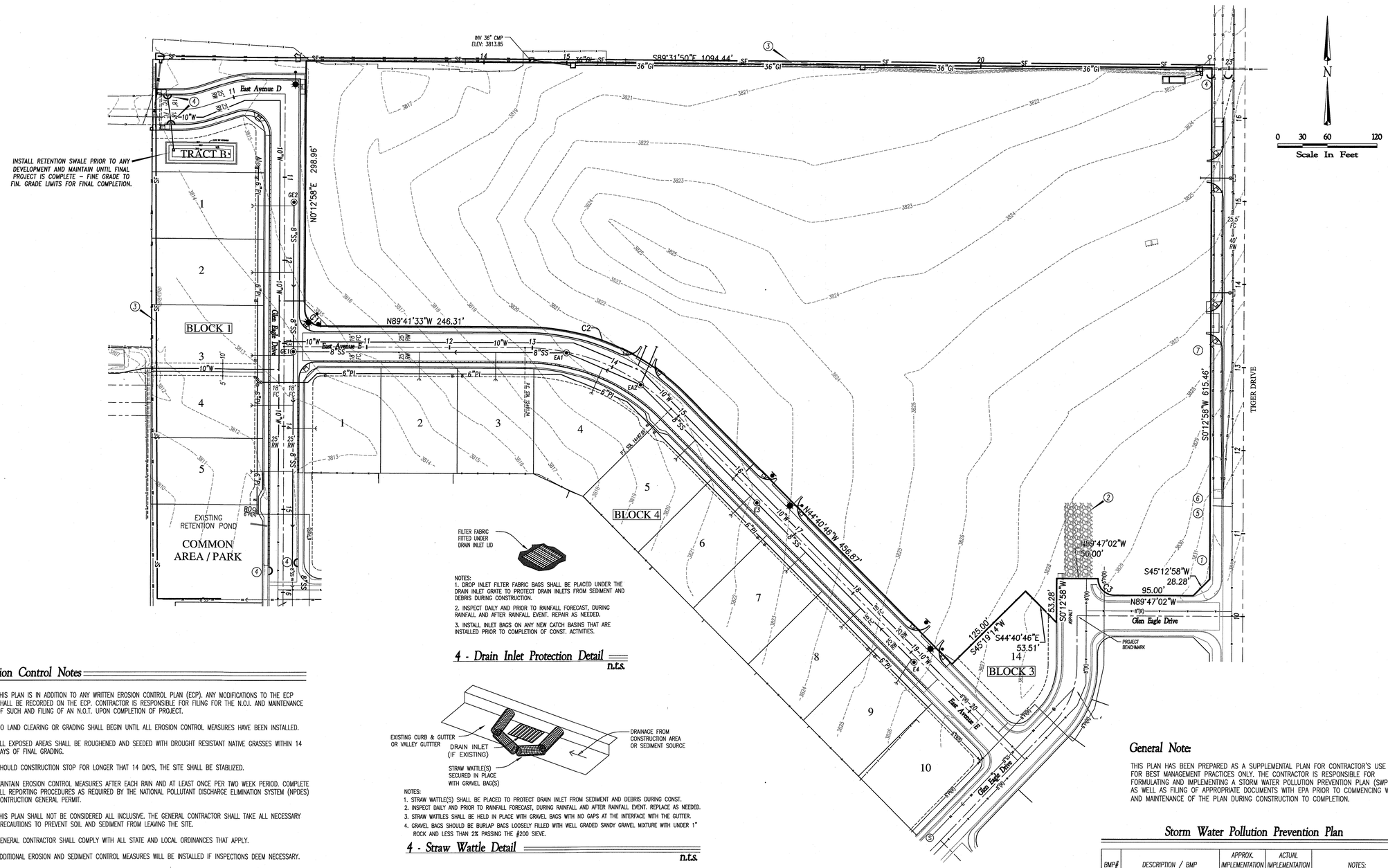


FILTER FABRIC FITTED UNDER DRAIN INLET LID

NOTES:
1. DROP INLET FILTER FABRIC BAGS SHALL BE PLACED UNDER THE DRAIN INLET GRATE TO PROTECT DRAIN INLETS FROM SEDIMENT AND DEBRIS DURING CONSTRUCTION.
2. INSPECT DAILY AND PRIOR TO RAINFALL FORECAST, DURING RAINFALL AND AFTER RAINFALL EVENT. REPAIR AS NEEDED.
3. INSTALL INLET BAGS ON ANY NEW CATCH BASINS THAT ARE INSTALLED PRIOR TO COMPLETION OF CONST. ACTIVITIES.

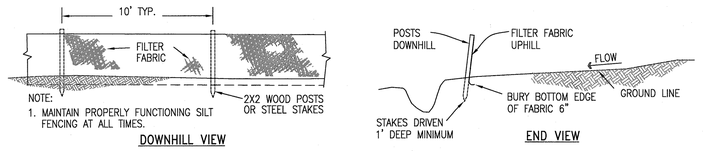
4 - Drain Inlet Protection Detail

n.t.s.

NOTES:
1. STRAW WATTLE(S) SHALL BE PLACED TO PROTECT DRAIN INLET FROM SEDIMENT AND DEBRIS DURING CONST.
2. INSPECT DAILY AND PRIOR TO RAINFALL FORECAST, DURING RAINFALL AND AFTER RAINFALL EVENT. REPLACE AS NEEDED.
3. STRAW WATTLES SHALL BE HELD IN PLACE WITH GRAVEL BAGS WITH NO GAPS AT THE INTERFACE WITH THE GUTTER.
4. GRAVEL BAGS SHOULD BE BURLAP BAGS LOOSELY FILLED WITH WELL GRADED SANDY GRAVEL MIXTURE WITH UNDER 1" ROCK AND LESS THAN 2% PASSING THE #200 SIEVE.

4 - Straw Wattle Detail

n.t.s.



3 - Silt Fence Detail

n.t.s.

Erosion Control Notes

1. THIS PLAN IS IN ADDITION TO ANY WRITTEN EROSION CONTROL PLAN (ECP). ANY MODIFICATIONS TO THE ECP SHALL BE RECORDED ON THE ECP. CONTRACTOR IS RESPONSIBLE FOR FILING FOR THE N.O.I. AND MAINTENANCE OF SUCH AND FILING OF AN N.O.T. UPON COMPLETION OF PROJECT.
2. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. ALL EXPOSED AREAS SHALL BE ROUGHENED AND SEEDED WITH DROUGHT RESISTANT NATIVE GRASSES WITHIN 14 DAYS OF FINAL GRADING.
4. SHOULD CONSTRUCTION STOP FOR LONGER THAT 14 DAYS, THE SITE SHALL BE STABLIZED.
5. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE PER TWO WEEK PERIOD. COMPLETE ALL REPORTING PROCEDURES AS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONTRUCTION GENERAL PERMIT.
6. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL AND SEDIMENT FROM LEAVING THE SITE.
7. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF INSPECTIONS DEEM NECESSARY.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH PERMANENT SOIL STABILIZATION.
10. SEDIMENT SHALL BE REMOVED FROM BMP'S BEFORE THEY ARE 25% FULL.
11. PORTABLE RESTROOM SPILL CONTAINMENT: PLACE SAND BAGS AT 7' AROUND FACILITY AND 1' IN HEIGHT TO CONTAIN POSSIBLE SPILLAGE.
12. OFFSITE VEHICLE TRACKING ON ROADWAYS SHALL BE REMOVED IMMEDIATELY.
13. CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SHALL BE RECORDED ON THE EROSION CONTROL PLAN. WASHOUT AREA TO BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION.
14. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE SWPPP DURING CONSTRUCTION OPERATIONS.
15. UNAUTHORIZED CHANGES ARE NOT THE RESPONSIBILITY OF THE PROJECT ENGINEER OR THE ORIGINAL PREPARER OF THE PLAN. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILTIY FOR IMPLEMENTATION AND MAINTENANCE.

General Note:

THIS PLAN HAS BEEN PREPARED AS A SUPPLEMENTAL PLAN FOR CONTRACTOR'S USE FOR BEST MANAGEMENT PRACTICES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FORMULATING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AS WELL AS FILING OF APPROPRIATE DOCUMENTS WITH EPA PRIOR TO COMMENCING WORK AND MAINTENANCE OF THE PLAN DURING CONSTRUCTION TO COMPLETION.

Storm Water Pollution Prevention Plan

BMP #	DESCRIPTION / BMP	APPROX. IMPLEMENTATION	ACTUAL IMPLEMENTATION	NOTES:
1	NOI / DEV'R. / CONTR. POSTINGS	____, 2022		
2	CONSTRUCTION ENTRANCE	____, 2022		
3	SILT FENCE	____, 2022		
4	STRAW WATTLES/INLET PROTECTION	____, 2022		
5	PORTABLE RESTROOM	____, 2022		
6	STAGING / STORAGE / TRAILER	____, 2022		
7	CONCRETE WASHOUT	____, 2022		
8	STOCK PILE STABILIZATION	AS NEEDED		
9	DUST CONTROL	AS NEEDED		

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Erosion & Sediment Control Plan For
GLEN EAGLE Subdivision
Jerome, Idaho

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REVISIONS:
REV'D. PER TFCC 4-27-'20

STAMP
PROFESSIONAL ENGINEER
LICENSED
14924
2/11/2022
STATE OF IDAHO
DAVID L. THIBAULT

APPROVED	
DESIGN	T. Vawser
DRAWN	T. Vawser
DATE	OCT., 2021
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Sheet C - 10

SUPPLEMENTAL DESIGN SPECIFICATIONS

IN ADDITION TO IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), 2020 EDITION

GENERAL SPECIFICATIONS

Scope

This section includes the scope of each item of work, the materials the Contractor shall use, the quality of workmanship the Contractor shall attain, the manner in which the work shall progress, be controlled, surveyed, inspected and tested, and the method of measurement and payment for the work performed. All construction shall conform to these requirements and shall be in accordance with the 2020 Edition of the Idaho Standards For Public Works Construction (ISPWC).

Materials

Prior to ordering any materials the Contractor shall submit sufficient data to the Engineer to determine the acceptability of the product. After written approval of the material the supporting data and documents shall become a part of the Contract, and may not be deviated from except upon written approval of the Engineer.

The Contractor shall supply all samples required by the City Engineer or testing laboratory to test the materials for acceptability. Samples shall be submitted to the City approved laboratory thirty (30) days prior to their use for testing and evaluation.

Workmanship

(1) All workmanship shall conform to the applicable standard practices established by the manufacturers or association of manufacturers, unless otherwise noted in these specifications.
(2) The Contractor shall acquaint himself with all rules and regulations governing work on public rights-of-way and all provisions of easements or agreements governing work on private property. All work performed within a public right-of-way shall conform to all rules and regulations of the State, highway district, canal company or City agency having jurisdiction over the right-of-way. All work performed on private property shall conform to all provisions of the easement or agreement authorizing the work across private property. The Contractor shall notify the appropriate public or private landowner two (2) working days before construction begins across the lands of the owner.
(3) Structures and utilities, whether above ground or below thirty (30) inches underground, shall be retained and protected unless otherwise noted on the Plans or in the Specifications. Small miscellaneous incidental structures such as culverts, fences, mail boxes and sign posts shall be removed and replaced by the Contractor in a condition as good as, or better than their original condition. The Contractor shall provide for the continued functioning of incidental structures during construction. Any legally placed structure or utility damaged by the Contractor shall be repaired or replaced in a condition equal to or better than the condition prior to damage. If directed by the Engineer or utility owner involved, the Contractor shall repair or assist in the repair of all damaged utilities or structures. All utility or structure repair shall be done under the direct supervision of the Engineer or utility owner involved.
(4) The Contractor shall be responsible for and shall provide, erect and maintain adequate barricades and signs, flagmen, fences or other approved protection devices in the standards established by the Manual for Uniform Traffic Control Devices or other applicable safety standards to insure the protection and safety of the public and those engaged in construction. The Engineer reserves the right to require any additional safety precautions which are necessary for the protection of the public.
(5) The Contractor shall maintain traffic control at all times. All work shall be carried out so as to cause the minimum dislocation of normal private and commercial pursuits. Traffic flow must be maintained on streets where no detour is practical. A traffic control plan shall be submitted to and approved by the City Engineer prior to the commencing work. This plan shall show all signing, detour routes and intended public media contract schedules. Street and road crossings shall be constructed in such a manner that at least one-half (1/2) the street is kept open to traffic at all times, unless special permission is granted by the City Engineer due to unusual circumstances no public street shall be closed more than twenty four (24) hours when permission to close the street is given. All street crossings requiring an asphaltic patch shall be patched back within twenty four (24) hours of the start of work.
(6) No blasting shall be done nor shall any explosives or blasting caps be used on this project.
(7) Clean up of the construction site shall be performed in a conscientious manner. The Contractor shall remove from all public and private property, all temporary structures, rubbish, waste materials and surplus materials resulting from his operations or caused by his employees, and shall leave the site smooth, clean and true to line and grade. Materials cleared from the site and deposited on adjacent property will not be considered as having been disposed of satisfactorily. Debris and rubbish shall be disposed of in an approved location.
(8) All work shall conform to the 2020 Idaho Standards For Public Works Construction.

Progress and Control

(1) The sequence of construction shall be as follows unless special approval in writing is obtained from the City Engineer:
A) Waste water sewers and service connections
B) Waste water manholes and cleanouts
C) Storm sewers and catch basins
D) Irrigation pipes and boxes
E) Water lines and service connections
F) Gas lines, power lines, telephone lines, fiber optic lines and cable vision lines
G) Any other underground improvements that are required
H) Sub-base preparation for public ways
I) Gravel base course for public ways
J) Curb-gutter, valley-gutter and sidewalk
K) Gravel leveling course
L) Asphalt paving
(2) PUBLIC WAYS
Required Inspections
A) Approval of all material before placement
B) Approval of sub-base before placing any gravel base course
C) Approval of forms and gravel base before pouring any concrete curb-gutter or sidewalk or valley-gutter
D) Approval of each layer of gravel base before placing of gravel leveling course
E) Approval of the gravel leveling course before placing any asphaltic prime coat
F) Inspection and testing during placement of asphaltic concrete surface course
G) Final inspection after all work is completed
(3) WATER SYSTEMS
Required Inspections
A) Approval of all material before placement
1) The Contractor shall supply a copy of the factories or suppliers invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of all fittings and valves by the City Water Superintendent or City Engineer before backfilling around the fitting and valve.
C) Approval of each layer of backfill before placing the next layer.
D) Approval of the pipe by leakage and pressure tests in conformance with ISPWC. A Written Notice must be issued.
E) Final approval after all work is completed and before any improvements are constructed over the pipes
(4) WASTEWATER SYSTEM
Required Inspections
A) Approval of all materials before placement.
1) The Contractor shall supply a copy of the factory's or supplier's invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of the excavation and pipe placement before pouring a concrete manhole base.
C) Approval of the in-place pipe, sewer services, and manholes before backfilling.
D) For flexible pipe, approval of maximum pipe deflection after backfilling.
E) Approval of the pipe joints (ex-filtration test) after backfilling and before any users are connected to the system, a Written Notice must be issued.
F) Final approval after all work is completed and before any improvements are constructed over the pipes.
(5) DRAINAGE SYSTEMS
Required Inspections
A) Approval of all materials before placement
1) The contractor shall supply a copy of the factory's or supplier's invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of forms and base before placement of any concrete.
C) Approval of in-place pipe, catch basins and other appurtenances before backfilling.
D) Approval of each layer of backfill before placing the next layer.
E) For flexible pipe, approval of maximum pipe deflection after backfilling.
F) Approval of maximum leakage, (exfiltration) after backfilling.
G) Final approval after all work is completed and before any improvements are constructed over any pipes
(6) IRRIGATION SYSTEMS – PRESSURE & GRAVITY
Required Inspection
A) Approval of all materials before placement
1) The Contractor shall supply a copy of the factory's or supplier's invoice showing the types and classes of all pipe as well as the quantity of each.
2) All pipe shall be laid with the factory class markings visible and a tracer wire taped to the upper one-third (1/3) of the pipe.
B) Approval of the forms and base before placement of any concrete.
C) Approval of in-place pipe, irrigation boxes, pressure irrigation structures and other appurtenances before backfilling.

Progress and Control (Continued)

D) Approval of each layer of backfill before placing the next layer.
E) For flexible pipe, approval of maximum pipe deflection after backfilling on gravity irrigation.
F) Approval of maximum leakage, (exfiltration) after backfilling.
G) Final approval after all work is completed and before any improvements are constructed over any pipes.

(7) STAKING BY SURVEY CREW
The survey controls specified in this section are the minimum requirements. All controls specifically designated herein to be performed by the Contractor and any other controls the Contractor may require are the responsibility of the Contractor. All survey work shall be done by an independent survey crew. It shall be the responsibility of the Contractor to lay out the work from the lines set and to transfer elevations from the grade stakes. The designated staking shall be as shown below.
a) Sidewalk. (From existing curb and gutter)
b) Curb-Gutter. Stakes shall be set every fifty (50) feet, at all corner radius points, vertical points of intersection, and at the center of each drive approach to indicate its location and size.
c) Valley Gutter. Stakes shall be set at each end.
d) Driveway Approach Slabs. For standard driveway approach slabs the grade and alignment will be defined by the existing curb-gutter. For arterial driveways, stakes will be set at all corner radii points. End of Radius grades will be set.
e) Catch Basin. A stake shall be set indicating the location, elevation of top of curb and inverts of all pipes.
f) Irrigation Box. A stake shall be set indicating the location, top of box and inverts of all pipe in the box.
g) Manholes. A stake shall be set indicating the location, top of box and inverts of all pipe in the manhole.
h) Pipes. Stakes shall be set at reasonable intervals, at changes in grade or alignment and at each manhole. The stakes will indicate pipe invert depth and location. Stakes shall also be set for water valves and fire hydrants, showing location and finished grade.
i) General Excavation and Embankment. Stakes shall be set on a twenty-five (25) foot grid.
j) Rock Excavation. The same as above except that payment for rock will be made based on field measurements made by the Owner's/Engineer's representative based on required trench width and depth.
k) Streets & Alleys. (As shown below)
1) Excavation & Embankment. Stakes shall be set along each side of the street showing the alignment and grade. and designating the limits of construction and shall be set at fifty (50) foot intervals.
2) Gravel. Blue top stakes shall be set at fifty (50) foot intervals along the crown line of the subgrade, one and one-half (1/2) inch max. gravel and three-fourths (3/4) inch max. gravel leveling courses. Grade stakes shall be set at ± 0.03 feet of actual grade.
3) Pavement. Stakes shall be set at twenty-five (25) foot intervals for crownline finished grade.
(8) INSPECTION AND TESTING OF SOILS, GRAVEL AND ASPHALT PAVEMENT.
The inspection and testing procedures specified in this section are the minimum requirements.
a) Trench – Common and Gravel Backfill and Street – Subgrade and Gravel.
One (1) – moisture density curve (proctor) with gradation per two thousand (2000) feet and at any noticeable change in soil type or five hundred (500) cubic yards of gravel.
One – nuclear density and moisture test per two hundred (200) feet of trench above the pipe zone until the compaction method is established and consistent results are achieved. Then one (1) per three hundred (300) feet or less. Not more than two (2) out of ten (10) shall be at the same depth. The pipe zone shall be tested every one hundred fifty (150) feet minimum. Streets shall be tested once per lane per lift or course per two hundred (200) feet or part thereof. Sidewalk, valley gutter and curb-gutter shall be tested once every fifty (50) feet or part thereof per lift or course of material.
b) Trench and Street, Plant-Mix Pavement.
One (1) plant sample per day of paving or part thereof.
One (1) set of two (2) in-place samples (cores) per plant-mix sample and per two hundred (200) feet of project.
One (1) in-place nuclear density per one hundred (100) feet of traveled lane or trench patch back.
c) Gravel shall be tested for gradation, angularity, sand equivalent, and other tests as required, with a frequency of at least one passing test per 2,000 tons of crushed or graded product.
(9) INSPECTIONS AND TESTING FOR CONCRETE SLABS, SIDEWALKS, ETC.
a) Compressive strength test – one (1) set of four (4) each for: one (1) seven (7) days, one(1) fourteen (14) days and two (2) twenty-eight (28) days per five hundred (500) cubic yards or per days run which ever is smaller.
b) Slump of portland cement – one (1) per truck.
c) Cement content – as shown in specifications.
d) Air content of freshly mixed concrete – one (1) per day.
Note: Other tests and inspections are in accordance with the applicable sections of the ISPWC.

Measurement and Payment

1) All measurements shall be U.S. Standard Measure. All measurements shall be as shown on the plans or as specified herein unless the dimensions are specifically changed or modified by the Owner. All work acceptably completed under the terms of these specifications shall be measured jointly by the Engineer and Contractor. Should the Contractor discover an error in the dimensions as shown on the plans or disagree with the field measurements he shall immediately notify the Engineer, suspend work and request a measurement verification. Should the Contractor proceed with any item of work it shall be considered as evidence that he has verified all measurements and concurs with the Engineer in the quantity measure.
2) All materials, labor and equipment necessary to complete the project in accordance with the plans and specifications shall be considered incidental to the bid items shown in the bid schedule. No payment will be made for work not shown on the plans or in the specifications unless specifically ordered and required by the Engineer. No payment will be made for work after a work item has been suspended or terminated.
3) All costs or claims resulting from damage by the Contractor to any unknown but properly covered utility line or structure, due to the Contractor's failure to properly notify the utility owner shall be paid by the Contractor with no additional compensation by the Owner. The Contractor shall keep a record of all notifications and of all known utility lines or structures. All lines or structures shall be considered as properly covered and known unless the Contractor can produce written evidence that the utility owner was notified and failed to locate the utility line or structure. If the Contractor is ordered to repair or assist in the repair of a damaged unknown utility and is due compensation or payment by the utility owner for his work, the amount of compensation or payment shall be agreed upon prior to performing the work.

TRAFFIC SIGNAGE AND STRIPING

(1) All striping and signage to be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD) and the Idaho Standards for Public Works Construction (2020 Edition).
(2) Pavement marking paint shall be MPI #32, alkyd or MPI #97, latex traffic marking paint. Color: white.
(3) Glass beads: AASHTO M 247, Type 1.
(4) VOC content: Pavement markings used on building interior shall have a VOC content of 150 g/L or less.

Application:
A. Do not apply pavement marking paint until layout, colors, and placement have been verified with Architect.
B. Allow paving to age for a minimum of 30 days before starting pavement marking.
C. Sweep and clean surface to eliminate loose material and dust.
D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
   1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils. Apply paint so that it cannot run beneath the stencil.
   2. Broadcast glass beads uniformly into wet markings at a rate of 6 lb/gal. (0.72 kg/L).

EARTHWORK

This work shall conform to Division 200 of the Idaho Standards For Public Works Construction (ISPWC) 2020 Edition.

BASE COURSE AND LEVELING COURSE

This work shall consist of graded aggregate spread and compacted on a prepared surface in accordance with the specifications and in reasonably close conformity with the lines, grades, thicknesses and typical cross sections shown on the plans or established by the Engineer.

Materials

(1) The moisture density relationship of the base and leveling material shall be determined in accordance with AASHTO T-99-90 methods A and C. The in-place density of the base shall be determined in accordance with AASHTO T-238-86. Density tests will be taken with a nuclear densometer.

(2) TYPE I AGGREGATE The aggregate material to be used will be produced from sound, tough, durable rock and shall be uniform in quality and gradation. The crushed material will be reasonably free from soft or disintegrated pieces, organic materials, and other objectionable matter. The material will show a loss of not more than thirty-five percent (35%) in the Los Angeles Abrasion Test. The percentage of soft particles as determined by the Clay Lumps and Friable Particles AASHTO T 112-87 shall not be more than five percent (5%). The material used will not have a sand equivalent less than thirty (30) if five percent (5%) or more of the material passes the No. 200 (0.075 mm) sieve. Eighty percent (80%) of the gravel by weight, of the combined course aggregate shall have three (3) or more rough angular surfaces as approved by the City Engineer and produced by crushing of the rock. The plasticity of the finished product will not exceed six (6).

(3) TYPE II AGGREGATE Shall conform to section (2) except that the aggregates shall have a Los Angeles abrasion of thirty-five percent (35%) to seventy percent (70%) wear, come from a quarry and have a surface fracture of ninety-five percent (95%) to one hundred percent (100%).

(4) The Contractor shall use aggregate conforming to the following gradations for the base course one and one-half inch (1 1/2") (37.5 mm) maximum gravel, leveling course three quarter inch (3/4") (19.0 mm) maximum gravel, and leveling course one-half inch (1/2") (12.5 mm) maximum gravel if specified:

PERCENTAGE BY WEIGHT PASSING SIEVES

	TYPE II	TYPE I	TYPE I *
SIEVE SIZE	1 1/2 Inch Max. (37.5 mm)	3/4 Inch Max. (19 mm)	1/2 Inch Max. (12.5 mm)
1 1/2 Inch	100		
1 Inch	55-83	100	
3/4 Inch		90-100	100
1/2 Inch			90-100
3/8 Inch			90 Max.
NO. 4	30-60	40-65	
NO. 8		30-50	28-58
NO. 30	10-25		
NO. 200	0-8 (washed)	3-9 (washed)	2-10 (washed)

NOTES:
A. Type I Crushed Aggregate that has a Los Angeles abrasion of not more than 35% and may be used anywhere that aggregates are required as per Standard Specifications.
B. Type II Crushed Quarry Aggregate that has a Los Angeles abrasion of between 35% and 70% with a 95 – 100% fractured surfaces and may be used anywhere except plant mix pavement and except base gravel or leveling course gravel on a designated forty-eight foot (48') wide or larger street.
C. *This material may only be used with written permission from the Engineer.

PLANT MIX PAVEMENT

The work shall consist essentially of the application of a hot plant mix asphaltic pavement upon an approved base in accordance with the specifications and in reasonably close conformity with the lines, grades, thicknesses and typical cross sections shown on the plans.
(1) Tack Coat shall be liquid asphalt grade SS-1h and shall conform to the Specifications Series No. 2 (SS-2) of the Asphalt Institute. For this project Prime Coat will not be required.
(2) Placement of hot plant mix asphalt shall begin within (forty-eight) 48 hours of final testing and observation of the base course, excepting delays for inclement weather. Extensive delays may require additional testing or inspection.
(3) The mix used for the hot plant mix asphalt must be an approved asphalt mix. Mix design characteristics must be submitted to and approved by the City of Jerome and applicable Highway District prior to its use. Superpave hot mix asphalt shall meet the mixture requirements as specified within the Idaho Transportation Department Standard Specifications for Highway Construction, Table 405.02-1 Superpave Mixture Requirements and shall be utilized under the following conditions:
(a) The Contractor shall provide Superpave HMA composed of a combination of aggregate, approved additives, mineral filler (if required), RAP (if used), WMA additives or process (if used), and performance graded (PG) asphalt binder material. A job mix formula (JMF) shall be required to be submitted to the City of Jerome for approval prior to placement of any hot-mix asphalt.
(b) Either SP-2 or SP-3 Superpave Mix Designs may be acceptable to the City. Roadways with an existing or anticipated traffic volume greater than 1 million ESAL's shall require SP-3 Superpave Mix Design.
(c) Superpave Mix Design shall conform to the latest requirements and specifications of the Idaho Transportation Department Standard Specifications for Highway Construction, Section 405. Except that no more than seventeen (17) percent RAP may be included within any particular mix design, therefore, no adjustments to (PG) binder grades shall be necessary.
(d) 1/2" aggregate size Superpave Mix Designs may be utilized for paving of residential classed roadways with prior approval granted by the City. 3/4" aggregate size Superpave Mix Designs shall be required for paving of all other roadways (i.e. collectors and arterials) unless previously approved by the City Engineer.
(4) The aggregate used in the hot-mix asphalt mix shall meet the following gradation:

PERCENTAGE BY WEIGHT PASSING SIEVES

Sieve Size	3/4 Inch Max. (19 mm)	1/2 Inch Max. (12.5 mm)
3/4 Inch(19 mm)	95-100	100
1/2 Inch (12.5 mm)	75-90	95-100
3/8 Inch(9.5 mm)	60-85	75-90
NO. 4 (4.78 mm)	40-65	50-75
NO. 10 (3.00 mm)	25-50	35-60
NO. 50 (2.00 mm)	9-21	10-25
NO. 200 (0.075 mm)	3-8	3-8

Note: The aggregate shall have a percent of wear not greater than 30 on the Los Angeles Abrasion Test, a Sand Equivalent not less than 35, and absorption not greater than 2 percent. Not less than 90 percent by weight of the aggregate particles retained on the No. 4 sieve shall have a least one fractured face, and not less than 70 percent shall have two fractured faces.

(5) Performance grade asphalt binder designated as 58-28 shall be required for use in approved mix designs, unless otherwise approved by the City of Jerome.

(6) When directed by the City of Jerome, asphalt products shall be treated with a heat-stable anti-stripping additive of not less that 0.5 percent by weight.

(7) The asphalt mix shall be laid only when the ambient air temperature is greater than 55 degrees Fahrenheit and rising and the mix is a temperature of 235 degrees Fahrenheit or greater.

(8) Paving may be allowed at lower ambient air temperatures (45 degrees F and rising) with special permission of the City Engineer and under the following conditions:
(a) Testing: Testing and inspection frequency shall double.
(b) Ground Surface Temperature shall exceed 45 degrees Fahrenheit.

(9) After spreading, the mixture shall be thoroughly and uniformly compacted with power rollers as directed by the City. Rolling of the mix shall begin as soon after spreading as it will bear the roller without undue displacement or hairline cracking. Initial rolling shall be done longitudinally. The rollers shall overlap on successive trips. Alternate trips of the roller shall be slightly different lengths. Unless otherwise directed, the initial or breakdown rolling shall consist of one complete coverage of the paving mixture performed with a two-axle tandem roller. Initial breakdown rolling shall be followed by three complete coverages with a pneumatic-tired roller while the temperature of the mixture is at or above 140 degrees Fahrenheit. The final rolling shall be performed in such a manner that cracking, shoving, or displacement shall be avoided. Final rolling shall be completed the same day the pavement is placed. Sufficient rollers shall be furnished to handle the output from the plant. Rolling shall continue until all rolling marks are eliminated and the surface is of uniform texture and true to grade and cross-section.

(10) To prevent adhesion of the mixture to the rollers, the wheels shall be kept properly moistened with water or water mixed with very small quantities of detergent or other approved material. Excessive water will not be permitted on the roller surfaces. Diesel fuel, kerosene, or other solvents shall not be applied to roller drums of wheels.

The final matt thickness after compaction shall be no less than the thickness depicted on these plans.

The completed hot-mix asphalt surface course shall have a field density equal to or greater than 92 percent for sections paved with Superpave SP-2 or SP-3 mix designs. In street sections, when utilizing a corrected nuclear densometer in the backscatter mode, the allowable tolerance ranges shall be in accordance with WAQTC TM-8 in place density of hot-mix asphalt.

The final surface shall be of a uniform texture and shall conform to the line and grade shown on the plans. Before final acceptance of the project or during the progress of the work, the thickness of all courses will be determined by the City of Jerome's representative.

All unsatisfactory work shall be repaired, replaced, or corrected at the Contractor's expense. The method of correcting unsatisfactory work shall be approved by the City of Jerome prior to correction.

Both density and thickness shall be carefully controlled during construction and shall be in full compliance with plans and specifications. For the purposes of testing the surface on all courses, one 10-foot straightened edge shall be used. The straightedge shall be held in successive positions parallel and perpendicular to the street centerline in contact with the surface, and the entire areas checked from one side to the other. Advances along the pavement shall be in successive stages of not more than half the length of the straightedge.

Irregularities which may develop before the completion of rolling shall be remedied by loosening the surface mix and removing or adding materials as may be required. Any irregularities or defects which are found after final rolling, which vary more than 0.02 of a foot in 10 feet for surface courses shall be corrected at the Contractor's expense. All minor surface projections, joints, and minor honey-combed surfaces shall be iron smooth to grade, as may be directed by the City of Jerome.

CONCRETE

This section shall apply to all concrete placed within the City rights of way for the construction of or in conjunction with curb and gutter, valley gutter, sidewalks, approved curb cuts, sanitary sewers, storm sewers, concrete slabs, concrete structures and footings. Portland cement concrete shall be composed of Portland cement, fine aggregate, coarse aggregate and water, proportioned and mixed in accordance with these specifications and placed in reasonably close conformity with the lines and grades shown on the plans.

Materials

(1) Concrete shall be ready-mix concrete and shall conform to ASTM designation C-94-92 Standard Specifications The maximum size aggregate shall be as shown. The maximum slump at the point of delivery shall be four (4) inches (100 mm) except in the case of extrusions. Extrusions shall have a slump of one and one-half inches plus or minus one inch (1½ ± 1) The concrete shall be air-entrained with an air content of between six and one-half percent plus or minus one and one-half percent (6½% ± 1½%) and shall conform to ASTM C-260-97. The concrete shall have a minimum twenty-eight (28) day compressive strength of four thousand (4,000) pounds per square inch (27580 kPa) and minimum cement content of six (6) bags per cubic yard. References to "Purchaser" in the ASTM C-94-92 Specifications shall mean the Engineer and references to "User" shall mean Contractor.
(2) The following conditions shall be in lieu of or in addition to the requirements of ASTM C-94-92 Specifications:
a) Truck mixers shall be equipped with electrically actuated counters by which the number of revolutions of the drum or blades may be readily verified. The counters shall be actuated at the time of starting the mixer.
b) No additional mixing water will be added to obtain the specified slump without permission of the City Engineer.
c) Cement may be added to the mix prior to pouring with adequate mixing.
(3) Concrete curing compound shall be a liquid membrane forming colored compound conforming to AASHTO designation M 148-82 or approved equal.
(4) Preformed expansion material shall be one-half (½) inch thick and shall conform to AASHTO designation M-33.
(5) Preformed reinforcing bar shall conform to ASTM A-305, A-615, 616 and 617.

Workmanship

In addition to ISPWC Standards these specifications shall apply with the addition of the following:
(a) The work shall consist of removal of any obstructions which are in the area of construction.
(b) The contractor shall make all arrangements for disposal of existing materials to be removed. All surplus embankment, concrete and masonry materials shall be disposed of at a location approved by the Engineer.
(c) The Contractor shall dispose of all decomposable or burnable materials and all fencing, metal pipe, and all other debris associated with the project at an approved landfill.
(d) The root system of bushes shall be removed to a depth of one (1) foot below subgrade. Complete removal and disposal of trees and stumps and the removal of their top roots to a depth of one (1) foot below subgrade level and backfill of any hole or depression is required.
(e) The work shall include excavation and disposal of earth or other materials within the area of construction, maintenance of adequate drainage during construction, and supplying, hauling, placing and compacting approved embankment material.
(f) Natural ground, or compacted fill material upon which the concrete is to be placed, shall be firm, free of organic matter, and completely free of frost. The ground shall be graded to neat lines and grades.
(g) The subgrade shall be free from ruts, corrugations, segregated material or other irregularities. The finished surface shall not vary more than one-half (1/2) inch from a ten (10) foot straight edge when applied to the surface parallel with and at right angles to the centerline. The moisture content of the subgrade material shall be the optimum moisture content and the material shall be uniformly compacted to at least ninety-five percent (95%) of its maximum density as determined by AASHTO T-99-90 for a depth of six (6) inches.
(h) Forms shall be timber or metal. They shall be straight, clean and free from warp. Lumber used for forms shall be dressed to a uniform thickness and shall be free from loose knots and other defects.
(i) Forms used on surfaces exposed to public view shall be constructed and maintained in such a manner that ordinary surface finishing will provide a smooth surface with a uniform color and texture. No patches or repairs to forms or in the case of metal forms, no dents will be permitted that will leave protrusions or indentations in the finished concrete.
(j) Forms shall be mortar tight and of sufficient rigidity to prevent distortion due to the pressure of the concrete, vibration and loads incident to the construction operations.
(k) Forms shall be treated to prevent the adherence of concrete. Material used for treating shall not adhere to or discolor the concrete.
(l) Metal ties or anchorages within the forms shall be constructed so as to permit their removal to a depth of at least one-half (1/2) inch from the face of the concrete upon removal of the forms.
(m) Concrete shall not be placed until the forms have been checked and approved by the Engineer. The forms shall be clear of all debris, ice or frost before concrete is placed.
(n) Forms shall be thoroughly wetted or oiled and the base material to be poured upon shall be thoroughly dampened.
(o) Concrete shall be handled from the transporting vehicle to the place of final deposit as rapidly as practicable by methods which shall prevent the segregation of the materials and the displacement of reinforcing steel.
(p) Concrete, during and immediately after depositing, shall be tamped into place and thoroughly compacted, until decrease in volume is no longer apparent and all air has been removed, but shall not continue to the extent that localized areas of grout are formed.
(q) Vibrators shall be used in structures to assure adequate consolidation around pipes and reinforcing steel. Vibrators shall transmit vibrations to the concrete at frequencies of not less than five thousand (5,000) impulses per minute. Vibrators shall be manipulated so as to work the concrete thoroughly around the reinforcement, imbedded fixtures and into corners and angles of the forms. Vibrators shall not be used in lieu of placing as a means to cause the concrete to flow or run into position. The vibration at any point shall be of sufficient duration to accomplish thorough consolidation, but shall not be prolonged to the point where segregation of aggregate occurs.
(r) If the air temperature falls below forty degrees Fahrenheit (40° F) the following cold weather placement procedures shall apply: 1) No concrete shall be placed on frozen subgrade or gravel leveling course nor shall there be any ice, snow, or frost on the concrete forms; 2) The Contractor shall furnish concrete that has a temperature at the time of placement, of at least fifty degrees Fahrenheit (50°F) and not more than eighty degrees Fahrenheit (80°F); 3) Heating equipment shall heat the materials uniformly; 4) Heating shall be done in such a manner that occurrence of non-uniform moisture contents or contamination in the aggregate shall not occur; 5) The aggregate shall not contain frozen lumps, ice or snow; 6) Aggregate shall not be heated to temperatures in excess of one hundred fifty degrees Fahrenheit (150° F); 7) The aggregate and water mixture shall have a temperature below eighty degrees Fahrenheit (80° F) before any cement or air entraining agent is added; 8) The concrete shall be protected from cost, snow or freezing for a period of seven (7) days at a minimum concrete temperature of forty degrees Fahrenheit (40°F).
(s) An ordinary surface finish shall be applied to all concrete surfaces. Immediately after the forms have been removed, the Contractor shall remove form bolts and tie wires. If, in the judgment of the Engineer, rock pockets are of such extent or character as to materially affect the strength of the structure or to endanger the life of the steel reinforcement, he may declare the concrete defective and require the removal and replacement of that portion of the structure affected. All holes and depressions shall be cleaned, thoroughly wetted, and filled with a cement mortar composed of one part of cement to two parts of sand. All fins caused by form joints and other projections shall be removed above the ground line. The resulting surfaces shall be reasonably smooth and uniform in texture and color. All surfaces which cannot be finished to the satisfaction of the Engineer shall be given an approved rubbed surface finish or the structure shall be removed.
(t) Membrane forming curing compound shall not be applied to concrete surfaces before the finishing has been acceptably completed. The curing compound shall be uniformly applied at the rate of one (1) gallon to not more than two hundred (200) square feet of surface. The curing compound shall be thoroughly mixed with the pigment uniformly distributed throughout. The curing compound shall not be applied during rainfall unless the surface is immediately covered in an approved manner. No Curing compound shall be required during cold weather if the cement is covered with blankets. If heat is required during cold weather curing compound shall be used. Should the film become scuffed or damaged from any cause during the curing period, the damaged area shall be recoated immediately with additional curing compound.
(u) Curing of formed concrete structures shall be accomplished by leaving the forms in place for a minimum of twelve (12) hours. Immediately after removal of forms a curing compound shall be applied to all exposed surfaces.
(v) Curing of unformed or exposed concrete surfaces shall be accomplished by keeping the surface completely and continuously moist until curing compound is applied.
(w) The Contractor shall be responsible for the protection and repair of fresh concrete against footprints, tracks or any other objectionable marks.
(x) The Contractor shall trowel all contraction joints to one-fourth (1/4) the concrete depth unless otherwise instructed by the Engineer. All felt expansion material shall be placed in such a manner as to entirely separate the adjacent slabs.
(y) There shall be no vibrator rolling performed within fifty (50) feet of freshly poured concrete for a period not less than forty-eight (48) hours.
(z) Traffic: Curb-gutter and driveway approach must be protected from all traffic for a period of seven (7) days after which a foot of graded gravel may be placed over the concrete and light cars and pickups may drive over the concrete. At the end of fourteen (14) days the gravel may be removed. No loaded trucks shall be allowed over the concrete until the end of twenty-eight (28) days.
(aa) All work shall conform to the Idaho Standards For Public Works Construction (ISPWC) Standard Drawings.

These specifications shall apply with the addition of the following:
(1) The contractor shall notify the Engineer to check and approve subgrade, leveling course, forms, alignment reinforcement and expansion material prior to pouring concrete.
(2) Testing shall be in accordance with the following standard methods:
a) Compressive Strength of molded concrete cylinders: AASHTO T 22-90
b) Slump of Portland Cement Concrete: AASHTO T 119-82 (with particular attention being paid to Note No. 3)

EHM Engineers, Inc.
BUILDING THE FUTURE ONE FOUNDATION OF EXCELLENCE
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Design Specifications For
GLEN EAGLE Subdivision
Jerome, Idaho

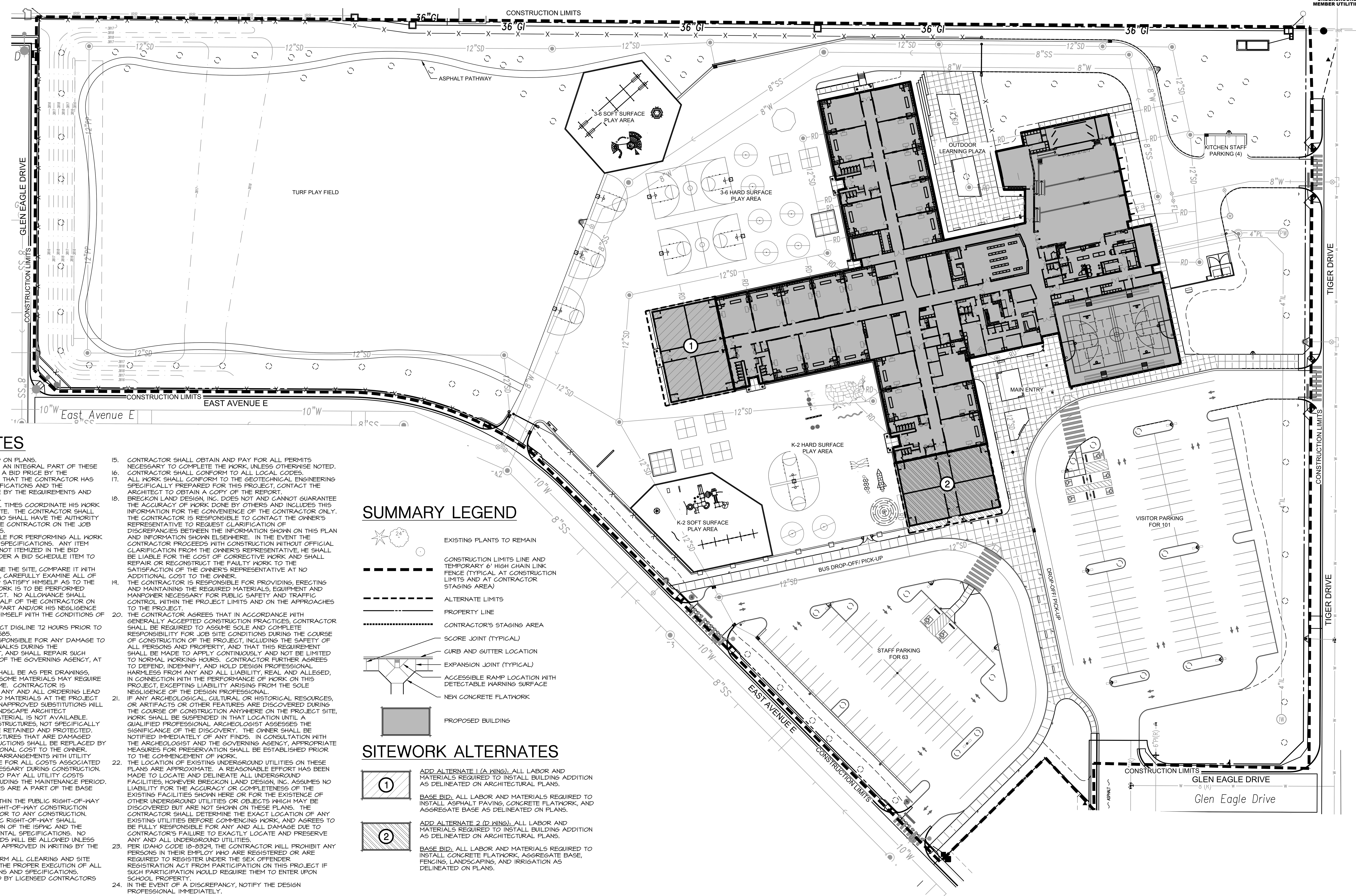
DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ENGINEER OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

REVISIONS:

STAMP
PROFESSIONAL ENGINEER
LICENSED
Thibault
14924
2/11/2022
STATE OF IDAHO
DAVID L. THIBAULT

APPROVED	
DESIGN	T. Vawser
DRAWN	T. Vawser
DATE	OCT., 2021
SCALE	Not To Scale
CAD FILE	352-21 Base
JOB NO.	352-21

Sheet C - 11



SUMMARY NOTES

1. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
2. TECHNICAL SPECIFICATIONS ARE AN INTEGRAL PART OF THESE DRAWINGS. UPON SUBMITTAL OF A BID PRICE BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE TECHNICAL SPECIFICATIONS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED THEREIN.
3. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
4. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK INDICATED IN THESE PLANS AND SPECIFICATIONS. ANY ITEM INDICATED IN THESE PLANS, BUT NOT ITEMIZED IN THE BID SCHEDULE, WILL BE INCLUDED UNDER A BID SCHEDULE ITEM TO WHICH IT MOST PERTAINS.
5. THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS AND SPECIFICATIONS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS, AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS PART AND/OR HIS NEGLIGENCE AND/OR FAILURE TO ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE.
6. THE CONTRACTOR SHALL CONTACT DIGLINE 72 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREETS OR SIDEWALKS DURING THE CONSTRUCTION OF THIS PROJECT, AND SHALL REPAIR SUCH DAMAGE TO THE SATISFACTION OF THE GOVERNING AGENCY, AT NO EXTRA COST TO THE OWNER.
8. ALL MATERIALS AND FINISHES SHALL BE AS PER DRAWINGS, DETAILS AND SPECIFICATIONS. SOME MATERIALS MAY REQUIRE SEVERAL WEEK ORDER LEAD TIME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ANY AND ALL ORDERING LEAD TIMES, AND PROVIDING REQUIRED MATERIALS AT THE PROJECT SITE IN A TIMELY MANNER. NO UNAPPROVED SUBSTITUTIONS WILL BE ALLOWED. CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY IF A SPECIFIED MATERIAL IS NOT AVAILABLE.
9. ALL EXISTING CONDITIONS AND STRUCTURES, NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAINED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH UTILITY COMPANIES AND IS RESPONSIBLE FOR ALL COSTS ASSOCIATED FOR TEMPORARY UTILITIES NECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO PAY ALL UTILITY COSTS DURING CONSTRUCTION AND INCLUDING THE MAINTENANCE PERIOD. COSTS FOR TEMPORARY UTILITIES ARE A PART OF THE BASE BID.
11. ALL CONTRACTORS WORKING WITHIN THE PUBLIC RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT, AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.
12. ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE ISPWC AND THE GOVERNING AGENCY'S SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO THESE STANDARDS WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY THE GOVERNING AGENCY.
13. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK INDICATED ON THESE PLANS AND SPECIFICATIONS.
14. ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
15. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED.
16. CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES.
17. ALL WORK SHALL CONFORM TO THE GEOTECHNICAL ENGINEERING SPECIFICALLY PREPARED FOR THIS PROJECT, CONTACT THE ARCHITECT TO OBTAIN A COPY OF THE REPORT.
18. BRECKON LAND DESIGN, INC. DOES NOT AND CANNOT GUARANTEE THE ACCURACY OF WORK DONE BY OTHERS AND INCLUDES THIS INFORMATION FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE OWNER'S REPRESENTATIVE TO REQUEST CLARIFICATION OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THIS PLAN AND INFORMATION SHOWN ELSEWHERE. IN THE EVENT THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT OFFICIAL CLARIFICATION FROM THE OWNER'S REPRESENTATIVE, HE SHALL BE LIABLE FOR THE COST OF CORRECTIVE WORK AND SHALL REPAIR OR RECONSTRUCT THE FAULTY WORK TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, ERECTING AND MAINTAINING THE REQUIRED MATERIALS, EQUIPMENT AND MANPOWER NECESSARY FOR PUBLIC SAFETY AND TRAFFIC CONTROL WITHIN THE PROJECT LIMITS AND ON THE APPROACHES TO THE PROJECT.
20. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
21. IF ANY ARCHEOLOGICAL, CULTURAL OR HISTORICAL RESOURCES, OR ARTIFACTS OR OTHER FEATURES ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION ANYWHERE ON THE PROJECT SITE, WORK SHALL BE SUSPENDED IN THAT LOCATION UNTIL A QUALIFIED PROFESSIONAL ARCHEOLOGIST ASSESSES THE SIGNIFICANCE OF THE DISCOVERY. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY FINDS. IN CONSULTATION WITH THE ARCHEOLOGIST AND THE GOVERNING AGENCY, APPROPRIATE MEASURES FOR PRESERVATION SHALL BE ESTABLISHED PRIOR TO THE COMMENCEMENT OF WORK.
22. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ON THESE PLANS ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES, HOWEVER BRECKON LAND DESIGN, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HERE OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
23. PER IDAHO CODE 18-8329, THE CONTRACTOR WILL PROHIBIT ANY PERSONS IN THEIR EMPLOY WHO ARE REGISTERED OR ARE REQUIRED TO REGISTER UNDER THE SEX OFFENDER REGISTRATION ACT FROM PARTICIPATION ON THIS PROJECT IF SUCH PARTICIPATION WOULD REQUIRE THEM TO ENTER UPON SCHOOL PROPERTY.
24. IN THE EVENT OF A DISCREPANCY, NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY.

SUMMARY LEGEND

- EXISTING PLANTS TO REMAIN
- CONSTRUCTION LIMITS LINE AND TEMPORARY 6' HIGH CHAIN LINK FENCE (TYPICAL AT CONSTRUCTION LIMITS AND AT CONTRACTOR STAGING AREA)
- ALTERNATE LIMITS
- PROPERTY LINE
- CONTRACTOR'S STAGING AREA
- SCORE JOINT (TYPICAL)
- CURB AND GUTTER LOCATION
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- PROPOSED BUILDING

SITEWORK ALTERNATES

(1) ADD ALTERNATE 1 (A WING): ALL LABOR AND MATERIALS REQUIRED TO INSTALL BUILDING ADDITION AS DELINEATED ON ARCHITECTURAL PLANS.

BASE BID: ALL LABOR AND MATERIALS REQUIRED TO INSTALL ASPHALT PAVING, CONCRETE FLATWORK, AND AGGREGATE BASE AS DELINEATED ON PLANS.

(2) ADD ALTERNATE 2 (D WING): ALL LABOR AND MATERIALS REQUIRED TO INSTALL BUILDING ADDITION AS DELINEATED ON ARCHITECTURAL PLANS.

BASE BID: ALL LABOR AND MATERIALS REQUIRED TO INSTALL CONCRETE FLATWORK, AGGREGATE BASE, FENCING, LANDSCAPING, AND IRRIGATION AS DELINEATED ON PLANS.

SUMMARY PLAN

40 0 40 80 120

SCALE: 1"= 40'-0"

811 Know what's below. Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

BRECKON landdesign
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www.breckonlanddesign.com
Fax: 208-376-6528
Phone: 208-376-5153
6661 North Glenwood Street
Garden City, Idaho 83714

STATE OF IDAHO
JON FRITZ BRECKON
LA-16536
2/11/2022
LICENSED LANDSCAPE ARCHITECT

Revisions

Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

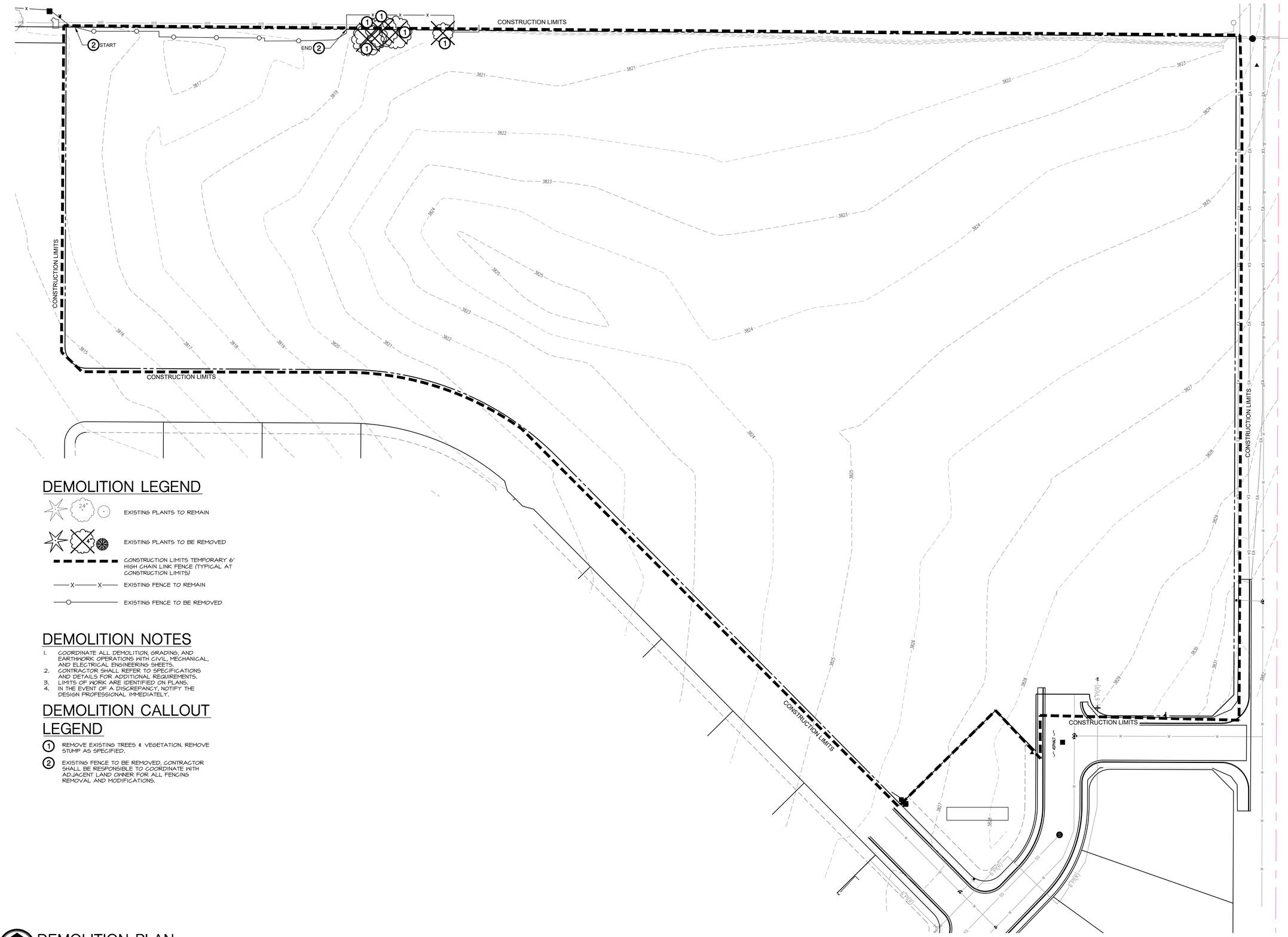
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:

SD0.0

SUMMARY PLAN



DEMOLITION PLAN

SCALE: 1"= 40'-0"

DEMOLITION LEGEND

✶ 24" ○	EXISTING PLANTS TO REMAIN
✶ 4" ✺	EXISTING PLANTS TO BE REMOVED
▬ ▬ ▬ ▬	CONSTRUCTION LIMITS TEMPORARY 6' HIGH CHAIN LINK FENCE (TYPICAL AT CONSTRUCTION LIMITS)
——X——X——	EXISTING FENCE TO REMAIN
——○——	EXISTING FENCE TO BE REMOVED

DEMOLITION NOTES

1. COORDINATE ALL DEMOLITION, GRADING, AND EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
2. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
3. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
4. IN THE EVENT OF A DISCREPANCY, NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY.

DEMOLITION CALLOUT LEGEND

① REMOVE EXISTING TREES & VEGETATION. REMOVE STUMP AS SPECIFIED.

② EXISTING FENCE TO BE REMOVED, CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ADJACENT LAND OWNER FOR ALL FENCING REMOVAL AND MODIFICATIONS.

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JON FRITZ BRECKON
Jon Breckon
LA-16536
2/11/2022

Revisions		
	Description	Date
1		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

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CHECKED BY: JB

BID SET

DRAWING NO.:
SD1.0
DEMOLITION PLAN

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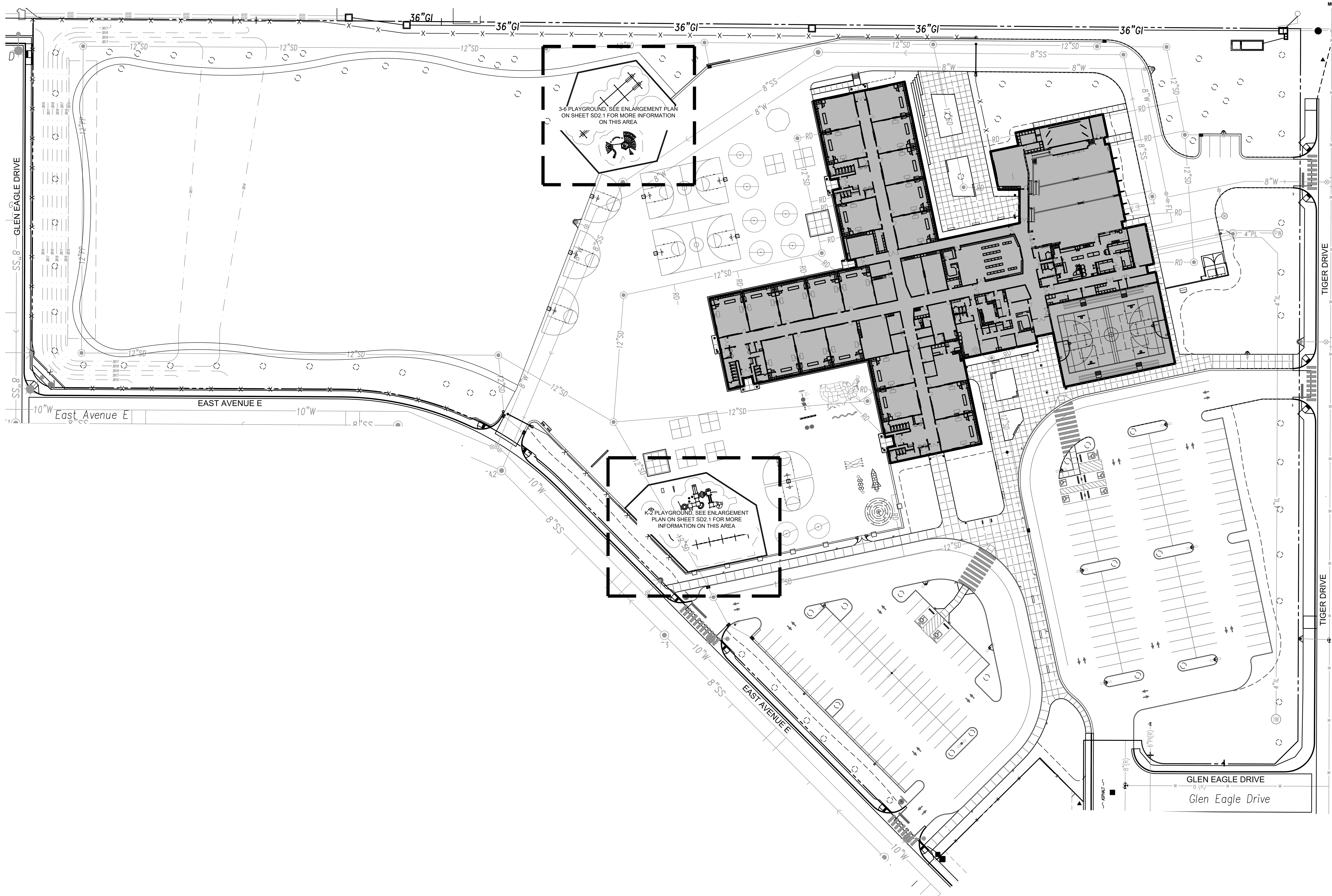

OVERALL PLAYGROUND LAYOUT PLAN

40 0 40 80 120
SCALE: 1"= 40'-0"

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N. 100 E. Jerome, Idaho

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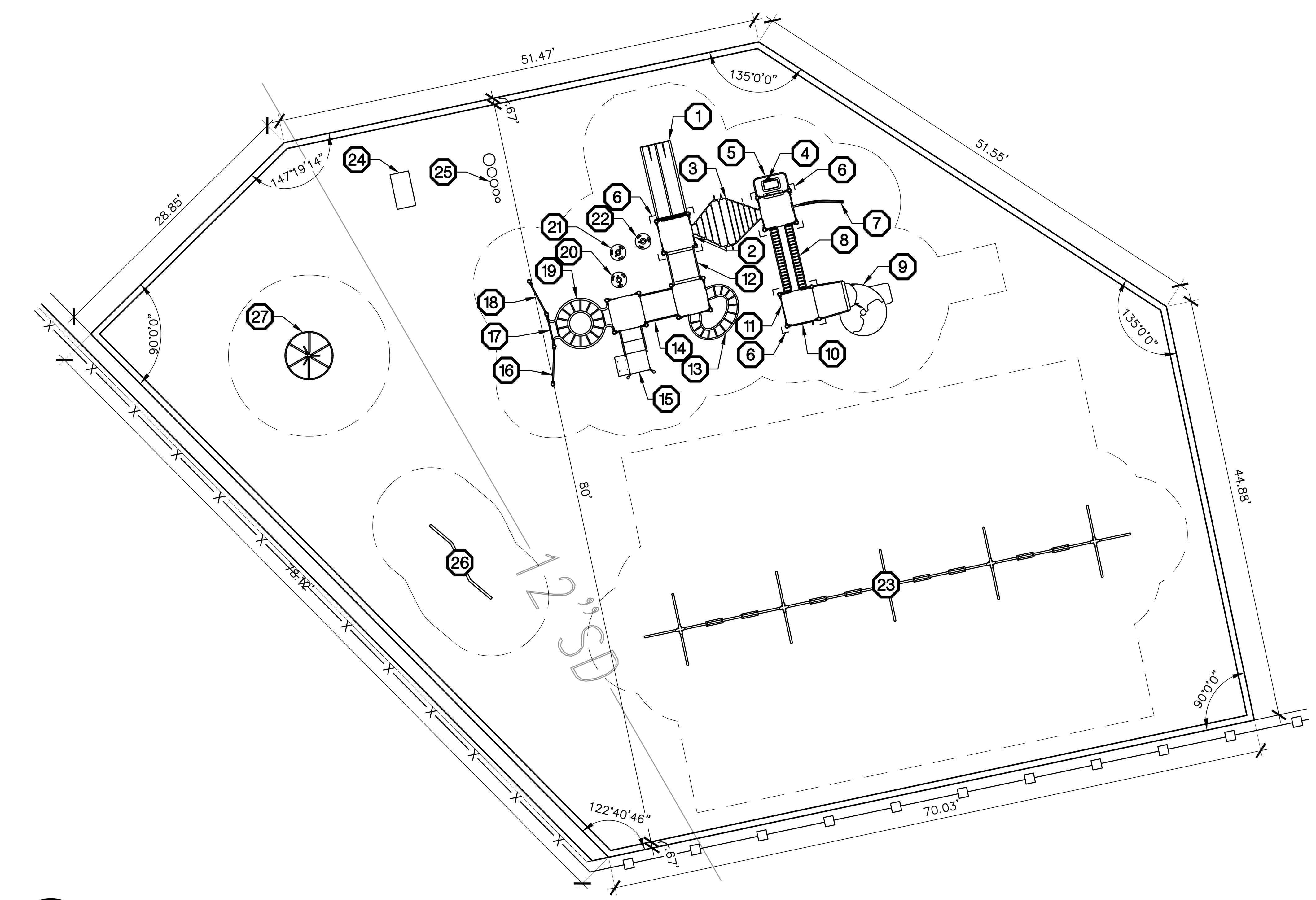
BID SET

DRAWING NO.:
SD2.0
OVERALL PLAYGROUND LAYOUT PLAN

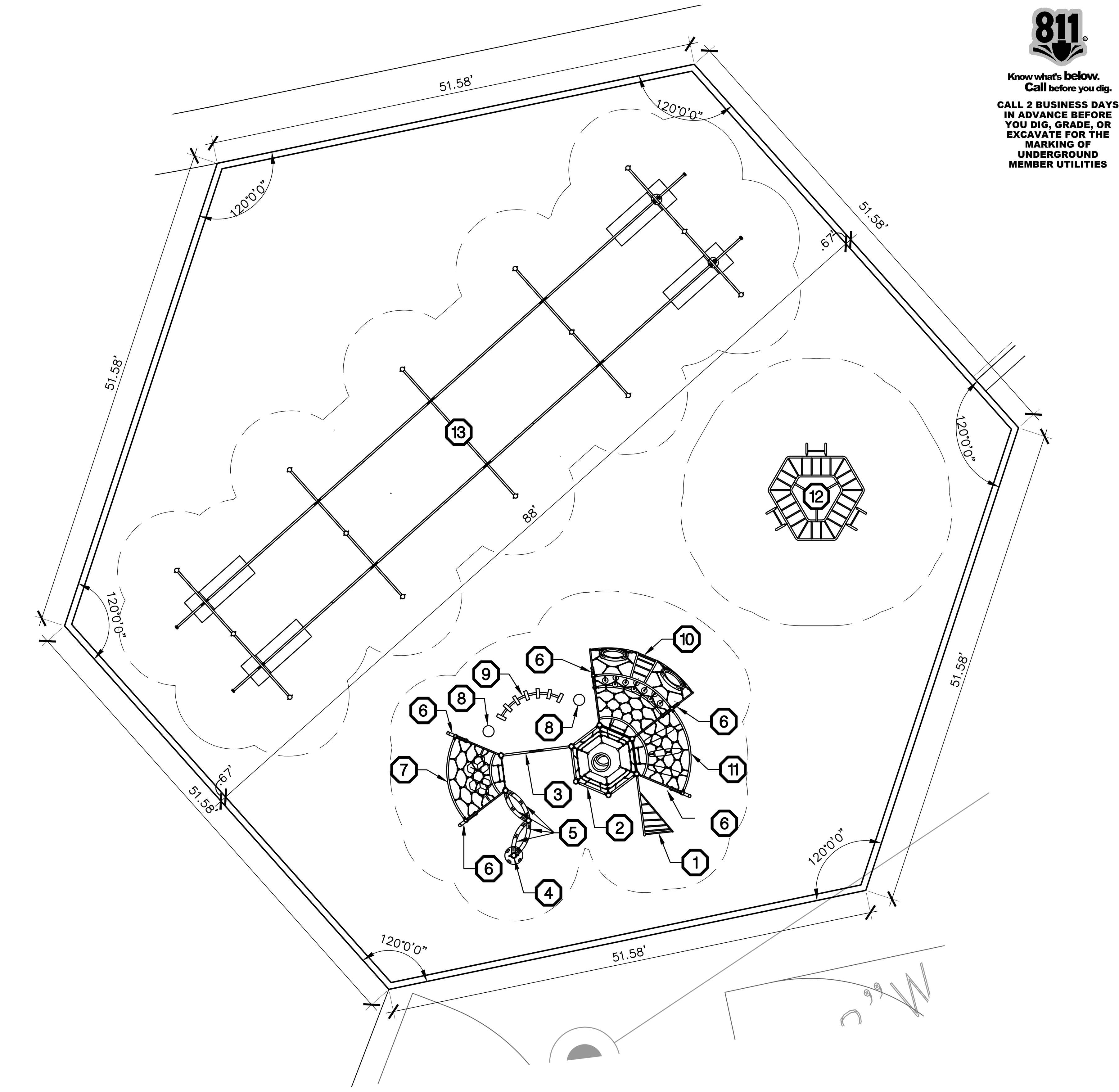
PLAY EQUIPMENT NOTES

1. THE DRAWINGS OF PLAY EQUIPMENT SHOWN ON THESE PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED FITTINGS, RAILINGS, ATTACHMENTS GRAB BARS, AND OTHER SUPPLEMENTAL ATTACHMENTS ARE INCLUDED IN THIS INSTALLATION IN CONFORMANCE WITH ALL APPLICABLE REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) LATEST EDITION.
2. PLAY EQUIPMENT SHALL BE PLAYCRAFT SYSTEMS AS AVAILABLE THROUGH LUCKYDOG RECREATION, 208-521-8997, CONTACT: LESLIE ANN SMITH, (OR APPROVED EQUAL).
3. PLAYGROUND EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. DELIVERY OF THE EQUIPMENT TO THE SITE SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PLAYGROUND EQUIPMENT SALES REPRESENTATIVE. PLAYGROUND EQUIPMENT SHALL BE INSTALLED BY AN EXPERIENCED INSTALLER WHO SPECIALIZES IN WORK SIMILAR TO WORK DESCRIBED IN DRAWINGS. INSTALLER SHALL BE ACCEPTABLE TO MANUFACTURER OF PLAYGROUND EQUIPMENT. INSTALLER SHALL BE LICENSED IN THE STATE OF IDAHO AND SHALL BE NPSI CERTIFIED.
4. STANDARD MANUFACTURER'S COLORS TO BE SELECTED BY THE LANDSCAPE ARCHITECT AT THE TIME OF SUBMITTALS.
4. INSTALL PLAYGROUND EQUIPMENT PER THE DESIGN AND MANUFACTURERS SPECIFICATIONS AND INSURE ALL FALL ZONES ARE INSTALLED PER NPSI AND ASTM STANDARDS. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OF REQUIRED FALL ZONES PRIOR TO INSTALLATION.
5. COORDINATE PLAY AREA DRAINAGE WITH SITE DRAINAGE SYSTEM, REFER TO CIVIL PLANS FOR MORE INFORMATION.
6. SHOP DRAWINGS WITH PLAY EQUIPMENT LAYOUT AND COMPLETE PARTS LIST INCLUDING COLOR SELECTIONS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO BID SUBMITTAL.
7. PLAY EQUIPMENT INSTALLER SHALL PROVIDE, TO THE OWNER, A LETTER THAT CERTIFIES THAT THE PLAY EQUIPMENT HAS BEEN INSTALLED IN CONFORMANCE WITH THE MANUFACTURE'S SPECIFICATIONS AND TO ALL APPLICABLE CODES AND STANDARDS.
8. THE PLAY EQUIPMENT SPECIFIED WITHIN THESE PLANS SHALL BE DEEMED TO BE A MEASURE OF QUALITY, UTILITY AND STANDARD AND SHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR APPROVED EQUAL". PLAY EQUIPMENT MANUFACTURERS ARE REQUIRED TO PROVIDE PROOF OF LIABILITY INSURANCE IN THE AMOUNT OF ONE MILLION DOLLARS ($1,000,000) PRIOR TO APPROVAL OF THE PLAY EQUIPMENT MATERIAL LIST AND SHOP DRAWING SUBMITTAL. CONTRACTOR REQUESTS(S) FOR EQUIPMENT SUBSTITUTION SHALL BE MADE PER THE GENERAL CONDITIONS.
9. ALL DIMENSIONS ARE FROM THE FACE OF CONCRETE EDGING. DIMENSIONS ARE SHOWN AS REFERENCES TO INSURE PROPER PLACEMENT OF THE STRUCTURE WITHIN THE PLAY AREA BOUNDARIES. VERIFY THAT ALL SHOWN DIMENSIONS ARE COORDINATED WITH THE MANUFACTURERS LAYOUT AND THAT ALL REQUIRED CLEAR ZONES ARE ACHIEVED. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF A DISCREPANCY IS DISCOVERED.
10. INSTALL SYNTHETIC TURF PLAYGROUND SURFACING WITHIN ENTIRE PLAYGROUND BOUNDARY. DEPTH OF PLAYGROUND SURFACING IN THE PLAY AREA VARIES. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE SUBGRADE ELEVATIONS AND FINISH GRADE OF PLAYGROUND SURFACING IN ORDER TO SET THE CORRECT FINAL ELEVATIONS OF PLAY EQUIPMENT. ALL PLAY EQUIPMENT SHALL BE INSTALLED TO MEET MINIMUM INSTALLATION HEIGHT REQUIREMENTS.
11. CONTRACTOR SHALL PROVIDE THE OWNER WITH MANUFACTURE'S PLAY EQUIPMENT MAINTENANCE MANUAL AND REPAIR KIT FOR ALL PLAY EQUIPMENT INSTALLED.
12. NO CHANGES TO THE PLAY EQUIPMENT LAYOUT SHALL BE ALLOWED BY THE CONTRACTOR WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE LANDSCAPE ARCHITECT PRIOR TO BID OPENING.



K-2 PLAYGROUND LAYOUT PLAN

SCALE: 1"= 10'-0"



3-6 PLAYGROUND LAYOUT PLAN

SCALE: 1"= 10'-0"

GRADES K-2 EQUIPMENT LIST

(THIS PLAYGROUND WAS DESIGNED UTILIZING PLAYCRAFT SYSTEMS 2021 CATALOG. EQUAL SUBSTITUTIONS ARE ACCEPTABLE UPON REVIEW AND APPROVAL. THE FOLLOWING IS A LIST OF THE MINIMUM QUANTITIES AND COMPONENTS THAT MUST BE USED.) SEE SPECIFICATIONS FOR SUBSTITUTION REQUIREMENTS.

POSTS AND HARDWARE
65 COLLARS (HS-1004-R35)
12 R3.5 DOME CAP (GG-8135)
1 9FT R3.5 POST (S-1009-R35-09ft)
3 10FT R3.5 POST (S-1010-R35-10ft)
8 11FT R3.5 POST (S-1011-R35-11ft)
4 14FT R3.5 POST (S-1014-R35-14ft)
8 16FT R3.5 POST (S-1016-R35-16ft)

DECKS AND KICK PLATES
5 SQUARE DECK (S-1101-R35)
1 OBSERVATION DECK WITH WHEEL (S-1109-LRG-R35-OB-W)

ADA ITEMS
1 TRANSFER STATION, 36in-L (S-1209-24-R35)

SLIDES
1 SLIDE, WAVE 48" (DOUBLE) (S-1702-4R35)
1 SLIDE, TWISTER SPIRAL 72 (R) (S-1706-S6R-R35)

ACTIVITY PANELS
1 MEMORY PANEL (S-1608-R35G)
1 STORE PANEL (S-1615-R35G)
1 JUMP PANEL (S-1620-R35)

BARRIERS
3 HALF WALLS (PAIR) R35 (S-1309-2-R35)

OVERHEAD EVENTS
1 TRAVERSE, HORIZONTAL LADDER (360 DEG) (S-1420-R35)
2 CHINNING BAR (S-1930-R35)
3 ROOF, SQUARE PYRAMID (RIBBED W/ FLAG) (S-1823-R35)

CLIMBERS AND NETS
1 CLIMBER, DISC 30-36" (W/ HW) (S-1233-3-HW)
1 CLIMBER, DISC 42-48" (W/HW) (S-1233-4-HW)
1 CLIMBER, DISC 54-60" (S-1233-5-MC)
1 CLIMBER, VERTICAL ROCK 66-72" (S-1237-6R35)
1 CLIMBER, FREEFORM 66-72" (S-1238-6)
1 CLIMBER, SWOOP RUNG 42-48" (S-1280-4R35)
1 LINK, ANGLED NET (90") (S-1528-R35)

LADDERS AND BRIDGES
1 END ACCESS LADDER (3-RUNG) (S-1403-R35)
1 BRIDGE, BELT (42") (S-1504-R35)
1 BRIDGE, BURMA W/ TRAVERSE (84") (S-1509-84TR35)
1 BRIDGE, INCLINED ARCH (S-1514-R35)

ADDITIONAL TOOL AND MAINTENANCE KITS
2 EXTRA HARDWARE KIT (HS-1007-R35)

INDEPENDENT ITEMS
4 TRADITIONAL SWING WITH (2) BELT SEATS (PC2130-8)
1 POWER TOWER CLIMBER CLIMBER (A2-2292)
1 LIGHTNING BALANCE BEAM (A2-2400)
1 TUNED DRUMS (1G) (RAINBOW LIDS) (TD-1G-N-RNBW)
1 SERENADE STEEL POST (1G) (SRND-1G-STL)

K-2 PLAY AREA EQUIPMENT SCHEDULE

1 POLY DOUBLE WAVE SLIDE
2 MEMORY PANEL (BELOW)
3 ANGLED NET LINK
4 OBSERVATION DECK WITH WHEEL (ABOVE)
5 STORE PANEL (BELOW)
6 RIBBED PYRAMID ROOF WITH FLAG
7 FREEFORM CLIMBER
8 BURMA BRIDGE WITH TRAVERSE
9 TWISTER SPIRAL SLIDE
10 VERTICAL ROCK CLIMBER
11 JUMP PANEL
12 BELT BRIDGE
13 SWOOP RUNG CLIMBER
14 INCLINED ARCH BRIDGE
15 TRANSFER STATION
16 CHINNING BAR
17 3-RUNG END ACCESS LADDER
18 TURNING BAR
19 360 DEGREE HORIZONTAL LADDER
20 36" DISC CLIMBER
21 60" DISC CLIMBER
22 48" DISC CLIMBER
23 8 SEAT SWING SET
24 SERENADE STEEL POST
25 TUNED DRUMS 1G
26 LIGHTNING BALANCE BEAM
27 POWER TOWER CLIMBER

GRADES 3-6 EQUIPMENT LIST

(THIS PLAYGROUND WAS DESIGNED UTILIZING PLAYCRAFT SYSTEMS 2021 CATALOG. EQUAL SUBSTITUTIONS ARE ACCEPTABLE UPON REVIEW AND APPROVAL. THE FOLLOWING IS A LIST OF THE MINIMUM QUANTITIES AND COMPONENTS THAT MUST BE USED.) SEE SPECIFICATIONS FOR SUBSTITUTION REQUIREMENTS.

POSTS AND HARDWARE
2 11 FT R5 POST (S-1011-R5-11ft)
2 12 FT R5 POST (S-1012-R5-12ft)
6 16 FT R5 POST (S-1016-R5-16ft)
72 COLLARS (HS-1004-R)
10 R5 DOME CAP (GF-7002)

MODULAR COMPONENTS
1 HEX NET HUB (S-1925-R5)
1 BALANCE STEP BAY (S-5202)
1 TRI-RING BAY (S-5203)
1 EXPLORERS ARCH BAY (S-5206)
1 CRAZE HANDLE R5 (S-1295-R5)
2 CRAZE LINK R5 (LEFT) (S-1296-R5)
2 CRAZE LINK R5 (RIGHT) (S-1296-R5)
1 LAUNCH PAD R5 (S-21263-R5)

CLIMBERS
1 ARCH TWIST 60" (RIGHT) CLIMBER (S-1281-R-5R5)
1 MATRIX ROPE NET WALL CLIMBER (S-1283-R5)

STAIRS AND LADDERS
5 2-RUNG ACCESS LADDER (S-5102)

ADDITIONAL TOOL AND MAINTENANCE KITS
2 EXTRA HARDWARE KIT (HS-1007-R5)

INDEPENDENT ITEMS
1 CURVED (90 DEGREE) BOARDWALK (A2-2430)
2 LILY PAD STEP 12-18 INCH (S-1414)
1 HEX CLIMB-AROUND CLIMBER (A2-2620)
1 DUAL TRACK ULTRA-ZIP WITH STANDARD SEAT (PC-2445-D-STD)

3-6 PLAY AREA EQUIPMENT SCHEDULE

1 ARCH TWIST CLIMBER
2 HEX NET HUB
3 MATRIX ROPE NET WALL
4 LAUNCH PAD WITH CRAZE HANDLE
5 (4) CRAZE LINKS
6 2-RUNG ACCESS LADDER
7 BALANCE STEP BAY
8 LILY PAD
9 CURVED BOARDWALK
10 EXPLORERS ARCH BAY
11 TRI-RING BAY
12 HEX CLIMB-AROUND CLIMBER
13 DUAL TRACK ULTRA-ZIP WITH STANDARD SEAT

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DRAWN BY: CP
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DRAWING NO.:
SD2.1
PLAYGROUND LAYOUT PLANS

MAIN PLAZA ENLARGEMENT PLAN

10 0 10 20 30

SCALE: 1"= 10'-0"

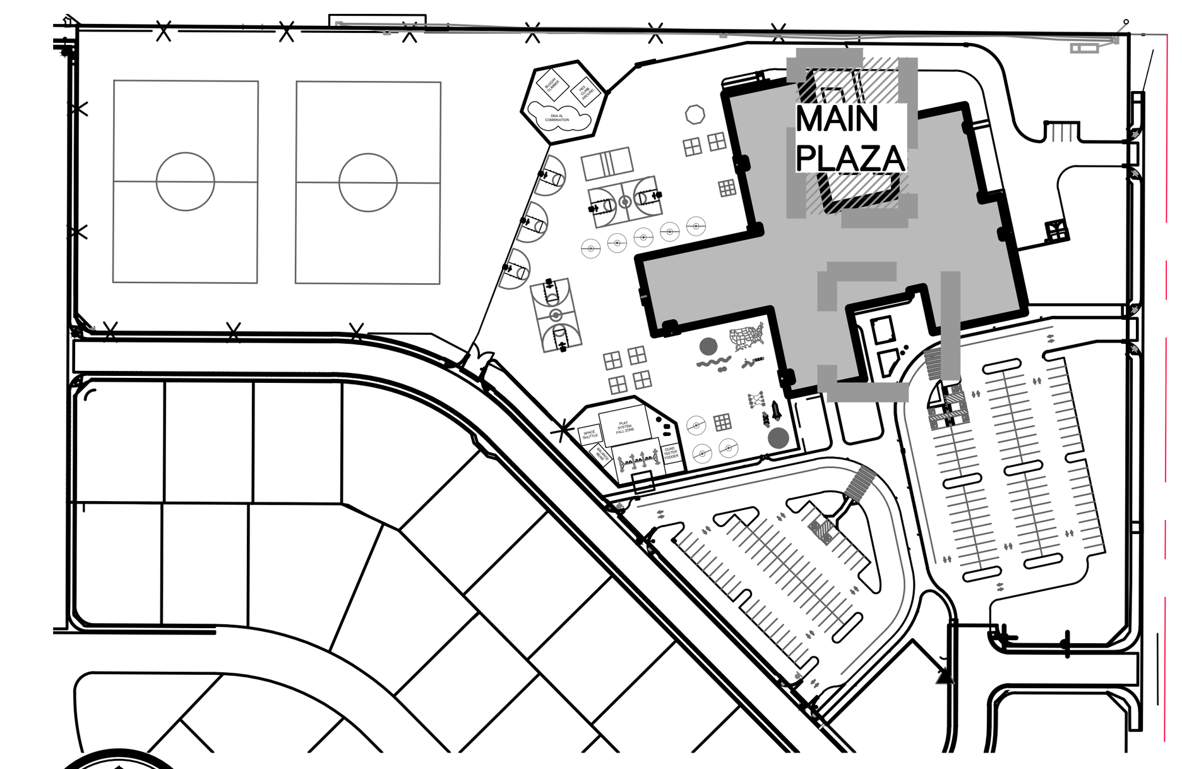
LAYOUT LEGEND

- PROPERTY LINE (VERIFY)
- 1040' PROPOSED CONTOUR
- 1050 EXISTING CONTOUR
- 1050.24 EXISTING SPOT ELEVATION
- TC 1132.76± BC 1132.26 SPOT ELEVATION
- 2.55% FLOW DIRECTION AND GRADIENT
- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP
- TRASH RECEPTACLE
- BENCH AS SPECIFIED
- CHAIN LINK FENCE LOCATION
- TUBE STEEL FENCE LOCATION
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON

TW/BW	TOP OF WALL/BOTTOM OF WALL
TS/BS	TOP OF STAIR/BOTTOM OF STAIR
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GRADE ELEVATION
TA	TOP OF ASPHALT ELEVATION
TOC	TOP OF CONCRETE ELEVATION
HP	HIGH POINT OF FINISH GRADE
LP	LOW POINT OF FINISH GRADE
TC/BC	TOP OF CURB/BOTTOM OF CURB

CALLOUT LEGEND

1. BIKE RACK AS SPECIFIED.
2. CONCRETE SEAT WALL TYPE ONE, SEE DETAIL 1 AND 2/SD3.5.
3. CONCRETE SEAT WALL TYPE TWO, SEE DETAIL 3/SD3.5.
4. TOOLED CONCRETE SCORE JOINTS, SEE DETAIL 10/SD5.1, TYPICAL.
5. FLAG POLE AS SPECIFIED.
6. 6'-0" BENCH AS SPECIFIED.
7. TRASH RECEPTACLE AS SPECIFIED.



KEY MAP

200 0 200 400 600

SCALE: 1"= 200'-0"

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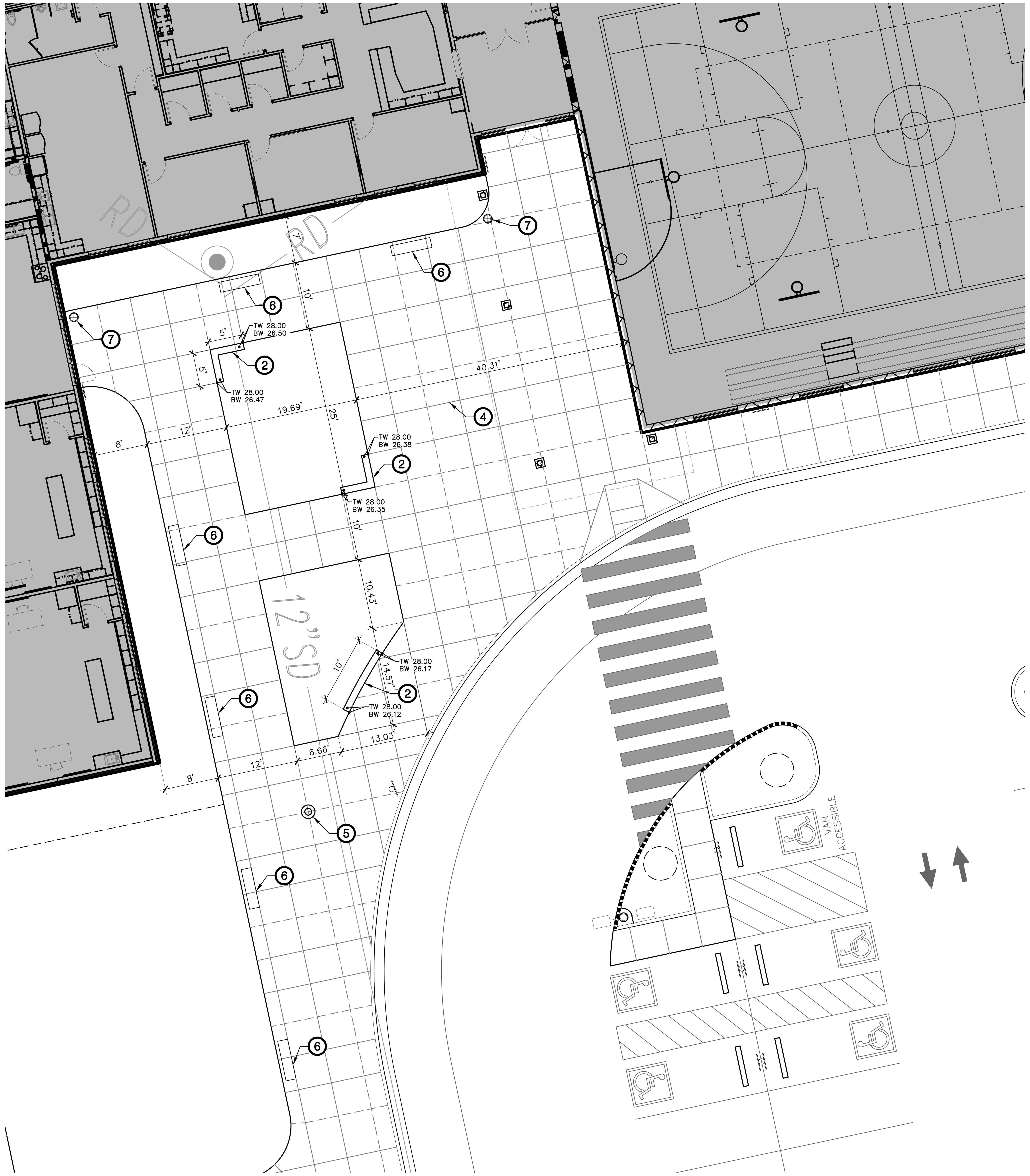
MAIN PLAZA ENLARGEMENT PLAN



ENTRY PLAZA ENLARGEMENT PLAN

10 0 10 20 30
SCALE: 1"= 10'-0"

LAYOUT LEGEND

Symbol	Description
	PROPERTY LINE (VERIFY)
1040'	PROPOSED CONTOUR
1050	EXISTING CONTOUR
x 1050.24	EXISTING SPOT ELEVATION
TC 1132.76± BC 1132.26	SPOT ELEVATION
2.55%	FLOW DIRECTION AND GRADIENT
	BIKE RACK AS SPECIFIED
	CONCRETE WHEEL STOP
	TRASH RECEPTACLE
	BENCH AS SPECIFIED
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	VERTICAL CURBING LOCATION
	CURB AND GUTTER LOCATION
	SCORE JOINT (TYPICAL)
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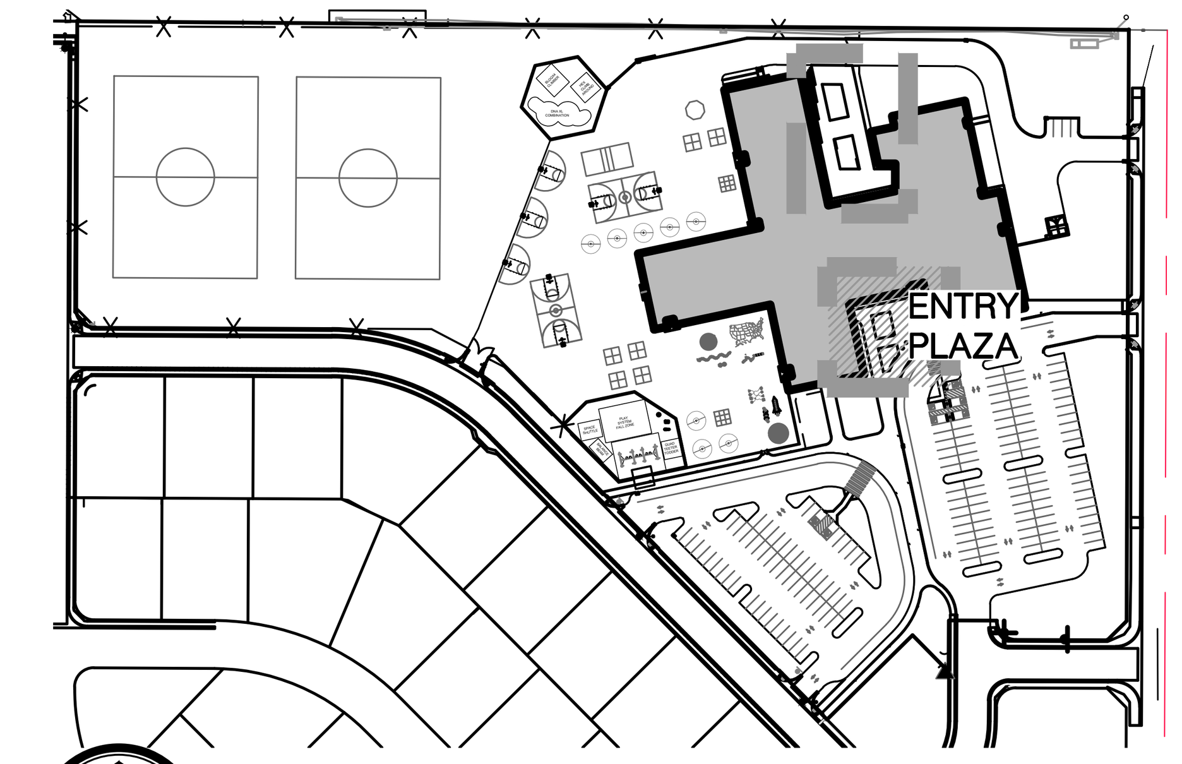
TA	TOP OF ASPHALT ELEVATION
TOC	TOP OF CONCRETE ELEVATION
HP	HIGH POINT OF FINISH GRADE
LP	LOW POINT OF FINISH GRADE
TC/BC	TOP OF CURB/BOTTOM OF CURB

CALLOUT LEGEND

1. BIKE RACK AS SPECIFIED.
2. CONCRETE SEAT WALL TYPE ONE, SEE DETAIL 1 AND 2/SD3.5.
3. CONCRETE SEAT WALL TYPE TWO, SEE DETAIL 3/SD3.5.
4. TOOLED CONCRETE SCORE JOINTS, SEE DETAIL 10/SD5.1, TYPICAL.
5. FLAG POLE AS SPECIFIED.
6. 6'-0" BENCH AS SPECIFIED.
7. TRASH RECEPTACLE AS SPECIFIED.



KEY MAP

200 0 200 400 600
SCALE: 1"= 200'-0"

811 Know what's below. Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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Phone: 208-376-5153
6661 North Glenwood Street
Garden City, Idaho 83714

STATE OF IDAHO
JON FRITZ BRECKON
LICENSED LANDSCAPE ARCHITECT
LA-16536
2/11/2022

Revisions		
	Description	Date
1		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

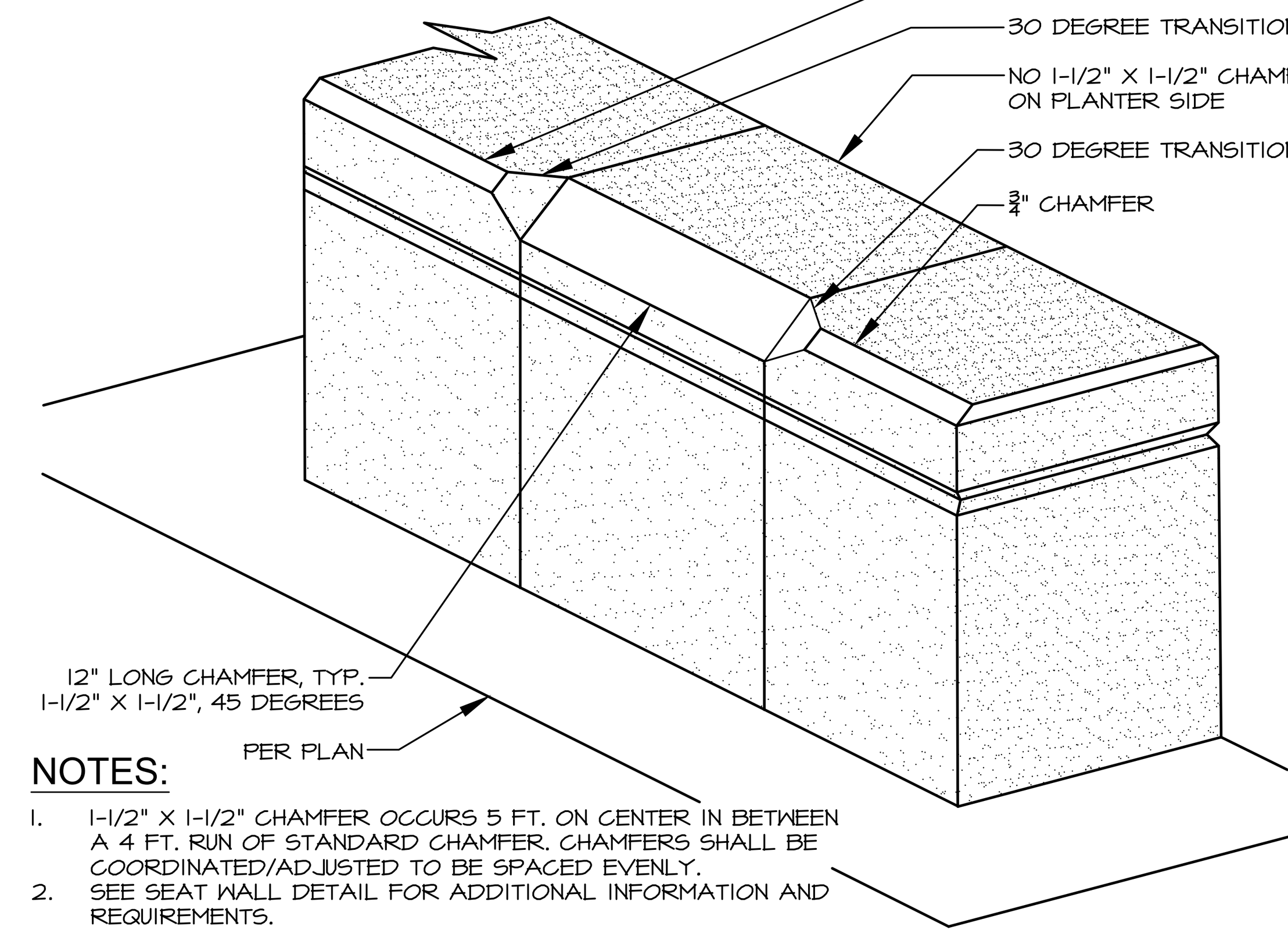
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:

SD3.2
ENTRY PLAZA ENLARGEMENT PLAN

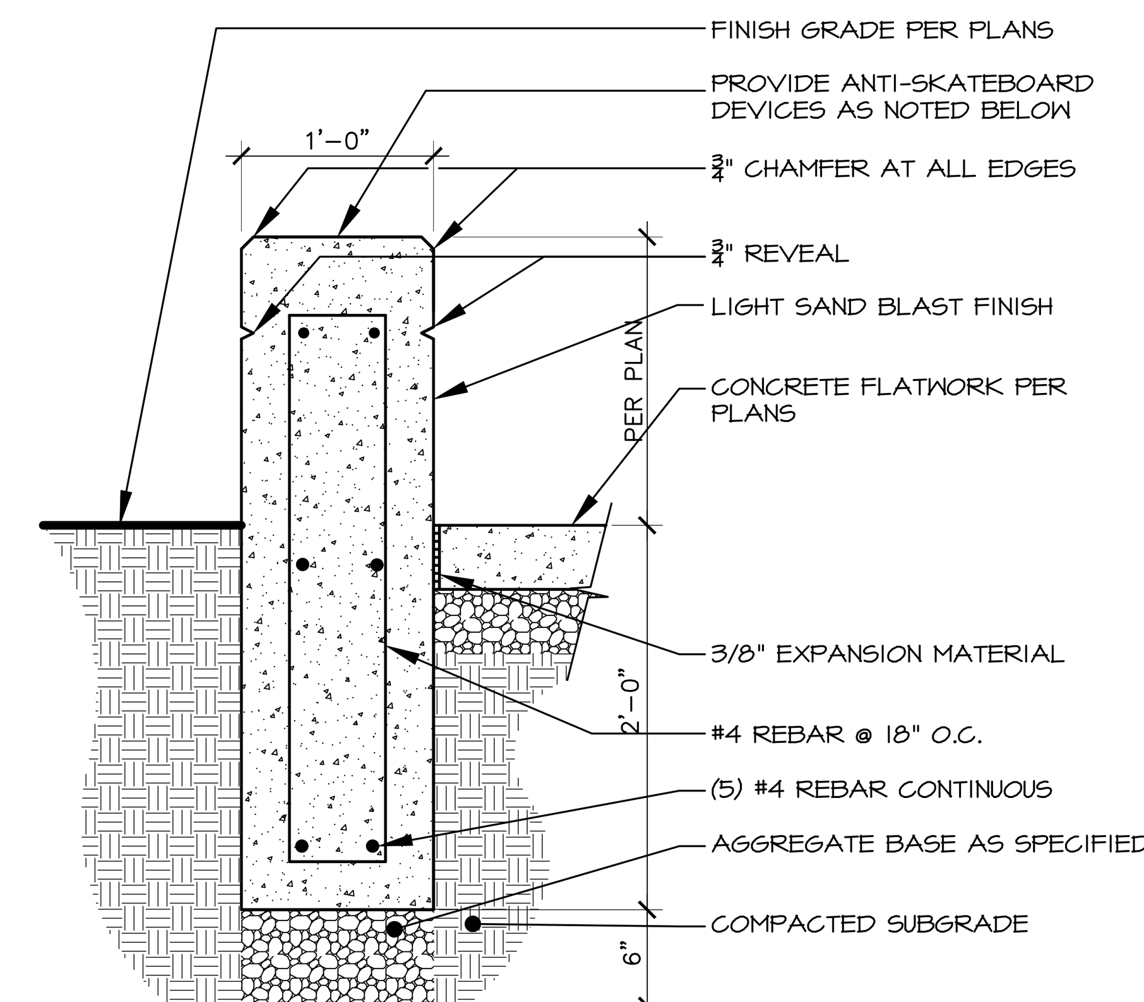


NOTES:

1. 1-1/2" X 1-1/2" CHAMFER OCCURS 5 FT. ON CENTER IN BETWEEN A 4 FT. RUN OF STANDARD CHAMFER. CHAMFERS SHALL BE COORDINATED/ADJUSTED TO BE SPACED EVENLY.
2. SEE SEAT WALL DETAIL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

1 CONCRETE WALL CHAMFER

Scale: 3/4"= 1'-0"

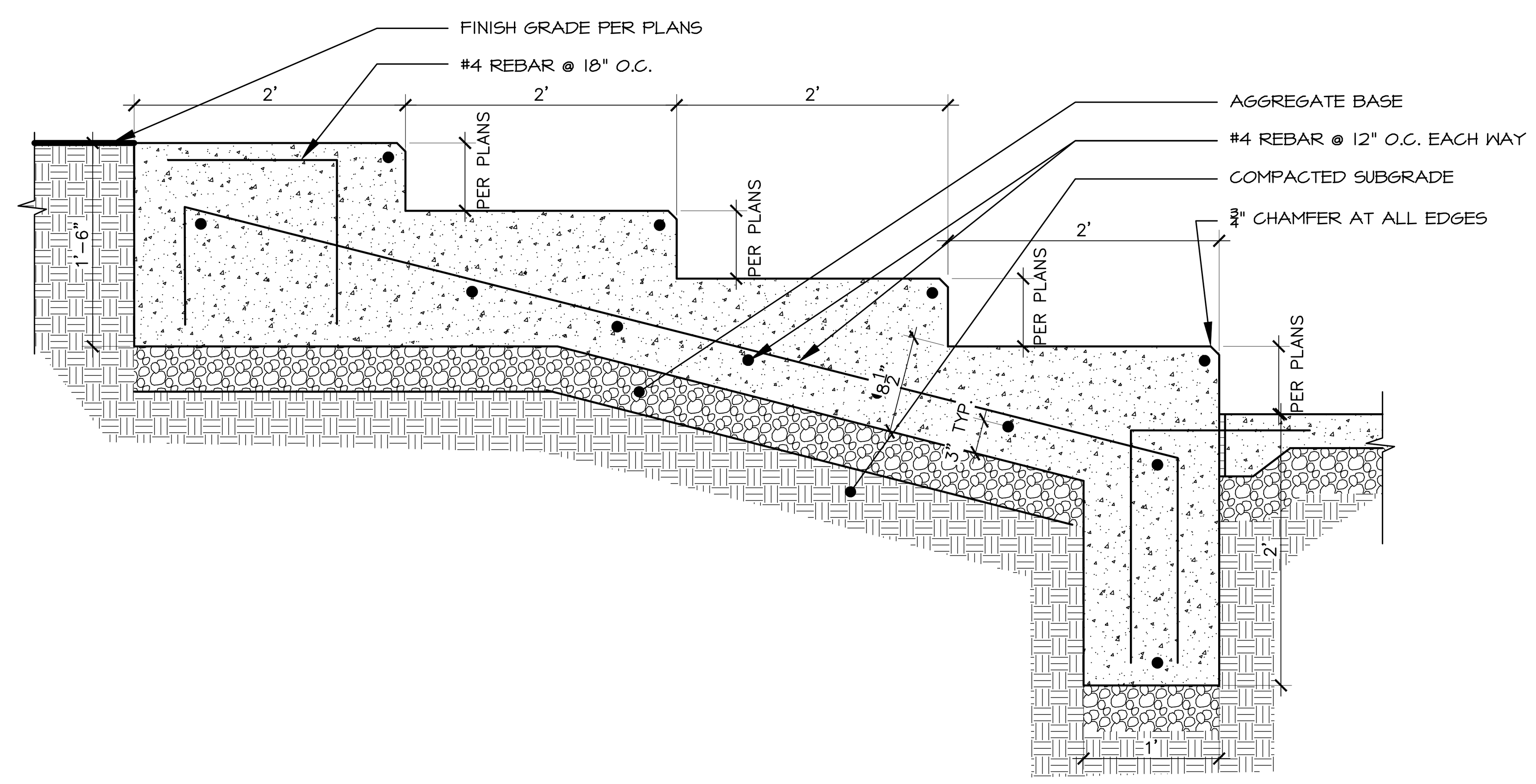


NOTE:

1. ANTI-SKATEBOARD CHAMFER SHALL BE CAST INTO WALL, SEE DETAIL 1, THIS SHEET.
2. SKATE STOP CHAMFER SHALL BE SPACED EVENLY AS REQUIRED.
3. PROVIDE LIGHT SAND BLAST FINISH AT ALL EXPOSED SURFACES.

2 CONCRETE SEATWALL (TYPE ONE)

Scale: 1"= 1'-0"



3 CONCRETE SEATWALL (TYPE TWO)

Scale: 1"= 1'-0"

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STATE OF IDAHO — LICENSED LANDSCAPE ARCHITECT — LA-16836 — 2/11/2022

Revisions	
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

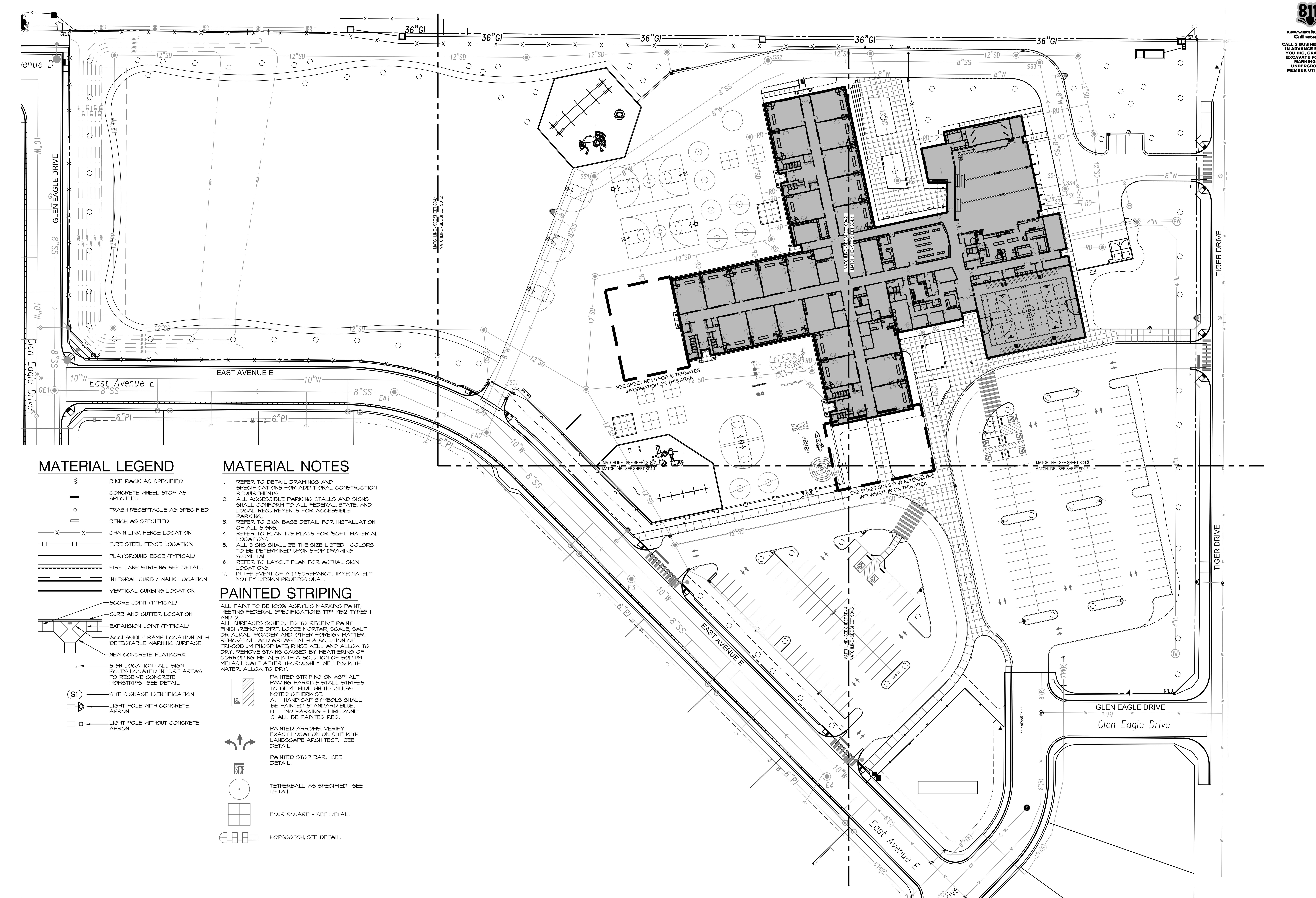
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:

SD3.5

PLAZA DETAILS



MATERIAL LEGEND

- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP AS SPECIFIED
- TRASH RECEPTACLE AS SPECIFIED
- BENCH AS SPECIFIED
- CHAIN LINK FENCE LOCATION
- TUBE STEEL FENCE LOCATION
- PLAYGROUND EDGE (TYPICAL)
- FIRE LANE STRIPING SEE DETAIL.
- INTEGRAL CURB / WALK LOCATION
- VERTICAL CURBING LOCATION
- SCORE JOINT (TYPICAL)
- CURB AND GUTTER LOCATION
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
- S1 — SITE SIGNAGE IDENTIFICATION
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON

MATERIAL NOTES

1. REFER TO DETAIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
2. ALL ACCESSIBLE PARKING STALLS AND SIGNS SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR ACCESSIBLE PARKING.
3. REFER TO SIGN BASE DETAIL FOR INSTALLATION OF ALL SIGNS.
4. REFER TO PLANTING PLANS FOR 'SOFT' MATERIAL LOCATIONS.
5. ALL SIGNS SHALL BE THE SIZE LISTED. COLORS TO BE DETERMINED UPON SHOP DRAWING SUBMITTAL.
6. REFER TO LAYOUT PLAN FOR ACTUAL SIGN LOCATIONS.
7. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY DESIGN PROFESSIONAL.

PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1952 TYPES 1 AND 2.
ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH:REMOVE DIRT, LOOSE MORTAR, SCALE, SALT OR ALKALI POWDER AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE; RINSE WELL AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING OF CORRODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

- PAINTED STRIPING ON ASPHALT PAVING PARKING STALL STRIPES TO BE 4" WIDE WHITE; UNLESS NOTED OTHERWISE.
  A. HANDICAP SYMBOLS SHALL BE PAINTED STANDARD BLUE.
  B. "NO PARKING - FIRE ZONE" SHALL BE PAINTED RED.
- PAINTED ARROWS, VERIFY EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT. SEE DETAIL.
- STOP — PAINTED STOP BAR. SEE DETAIL.
- TETHERBALL AS SPECIFIED -SEE DETAIL
- FOUR SQUARE - SEE DETAIL
- HOPSCOTCH, SEE DETAIL.

OVERALL MATERIALS, STRIPING, AND SIGNAGE PLAN

40 0 40 80 120
SCALE: 1"= 40'-0"

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STATE OF IDAHO
JON FRITZ BRECKON
LICENSED LANDSCAPE ARCHITECT
LA-16536
2/11/2022

Revisions		
#	Description	Date

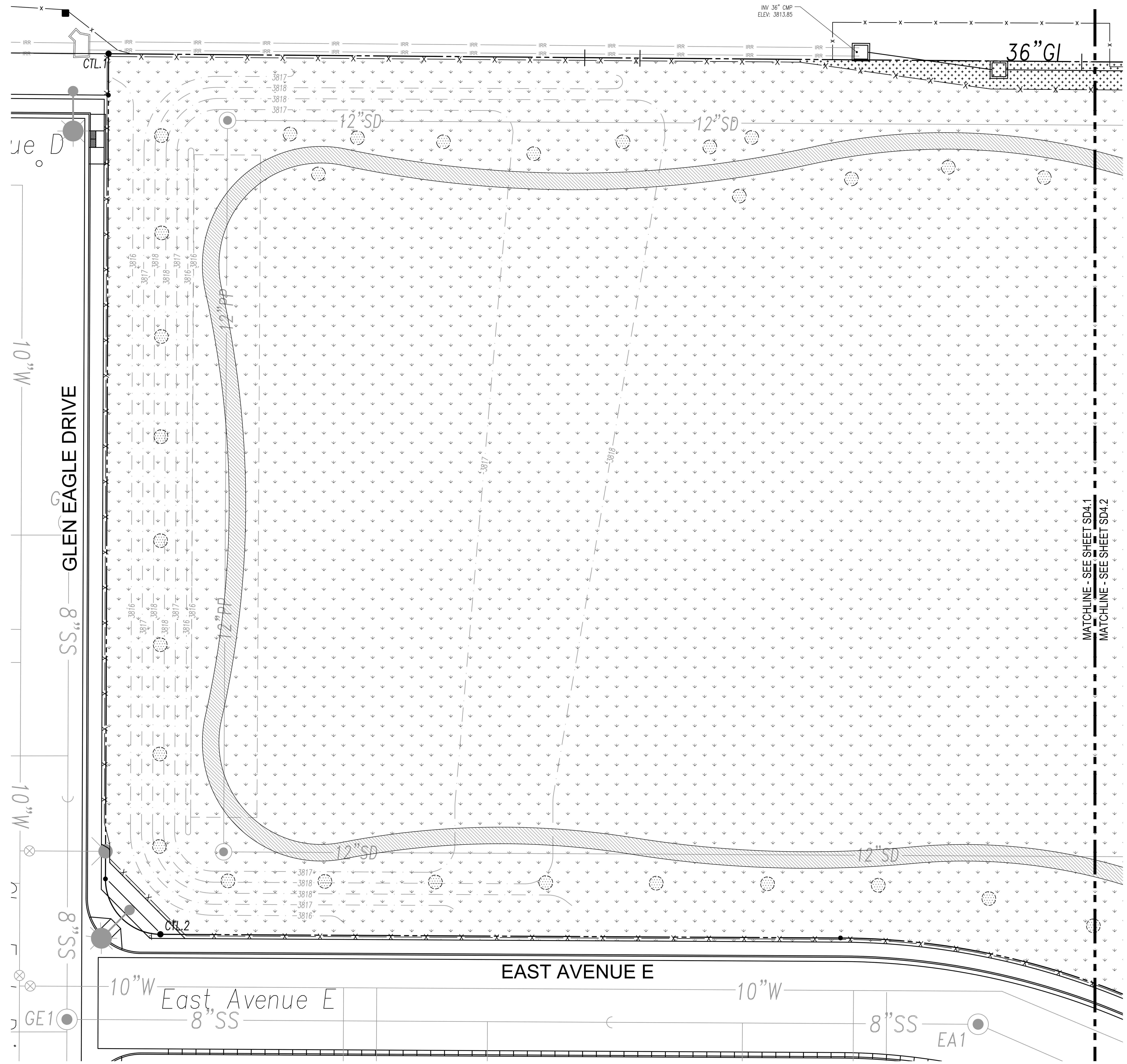
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD4.0
OVERALL MATERIALS, STRIPING, AND SIGNAGE PLAN



MATERIALS, STIPING, AND SIGNAGE PLAN- AREA ONE

SCALE: 1"= 20'-0"

PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1952 TYPES 1 AND 2.
ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH:REMOVE DIRT, LOOSE MORTAR, SCALE, SALT OR ALKALI POWDER AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE; RINSE WELL AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING OF CORRODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

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B. "NO PARKING - FIRE ZONE" SHALL BE PAINTED RED.

PAINTED ARROWS, VERIFY EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT. SEE DETAIL.

STOP — PAINTED STOP BAR. SEE DETAIL.

TETHERBALL AS SPECIFIED -SEE DETAIL

FOUR SQUARE - SEE DETAIL

HOPSCOTCH, SEE DETAIL.

CALLOUT LEGEND

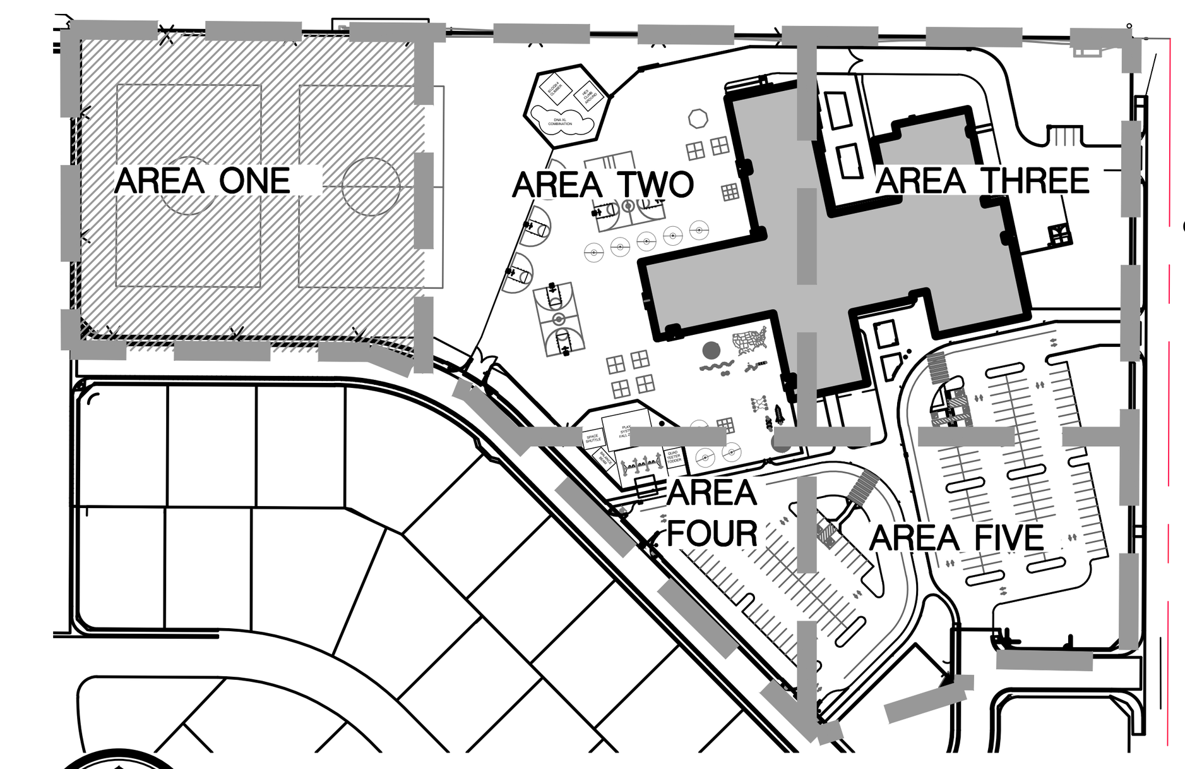
1. SIGN POST AND FOOTING, SEE DETAILS 7, 8, AND 9/SD4.7, TYPICAL. PROVIDE CONCRETE APRON IN TURF LOCATIONS. MOUNT SIGN TO POST.
2. MOUNT SIGN TO BUILDING. COORDINATE WITH ARCHITECT FOR MOUNTING REQUIREMENTS.
3. MOUNT SIGN TO FENCING.
4. 4" WIDE WHITE PARKING LOT STRIPING, SEE DETAIL 3/SD4.7.
5. CROSSWALK STRIPING, SEE DETAIL 2/SD4.7.
6. PAINTED ARROWS, SEE DETAIL 1/SD4.7.
7. ACCESSIBLE PARKING STALL LAYOUT, SEE DETAIL 5/SD4.7.
8. 12" WIDE TRAFFIC CONTROL STRIPE
9. BASKETBALL COURT, SEE DETAIL 10/SD4.7.
10. BASKET BALL HALF COURT, SEE DETAIL 13/SD4.7.
11. FOUR SQUARE STRIPING, SEE DETAIL 12/SD4.7.
12. TETHERBALL COURT, SEE DETAIL 11/SD4.7.
13. ROCKET SHIP HOPSCOTCH STRIPING, SEE DETAIL 14/SD4.7.
14. HEXAGON HOPSCOTCH STRIPING, SEE DETAIL 1/SD4.8.
15. WALL BALL, SEE DETAILS 3 AND 4/SD4.8.
16. USA MAP STRIPING AS SPECIFIED.
17. 9 SQUARE IN THE AIR AS SPECIFIED. SURFACE MOUNT ON A 20' X 20' CONCRETE PAD.
18. GAGA BALL AS SPECIFIED.
19. FIRE LANE STRIPING, SEE DETAIL 4/SD4.7.
20. PAINTED LETTERINGS AND STOP BAR, SEE DETAIL 6/SD4.7.
21. 'PLAYGROUND CIRCLE MAZE' STRIPING AS SPECIFIED.
22. 'FIND THE CORRECT PATH GAME' STRIPING AS SPECIFIED.
23. 'MIRROR ME GAME' STRIPING AS SPECIFIED.
24. 'SNAKE HOPSCOTCH (LETTERS)' STRIPING AS SPECIFIED.
25. 'SOLAR SYSTEM KIT' STRIPING AS SPECIFIED.
26. 'MOON BOOTS BODY HOP' STRIPING AS SPECIFIED.
27. REFER TO CIVIL PLANS FOR HARDSCAPE MATERIALS IN THIS AREA.
28. SIGN POST IN STEEL BOLLARD, SEE DETAILS 7 AND 9/SD4.7 AND 5 AND 6/SD4.8.
29. 3' X 10' CONCRETE PAD. BIKE RACKS TO BE MOUNTED ON CONCRETE PAD.

SIGNAGE LEGEND

S1	S2	S3	S4
STOP	STUDENT LOADING/ UNLOADING NO PARKING ANYTIME	BUS LOADING/ UNLOADING NO PARKING DURING SCHOOL HOURS	SERVICE VEHICLES ONLY NO ACCESS SERVICE AND FIRE LANE ONLY
30"x 30"	18"x 24"	18"x 24"	18"x 24"

S5 — VISITORS WELCOME PLEASE REPORT TO OFFICE DURING SCHOOL HOURS — 12"x 18"

S6 — RESERVED PARKING — STATE APPROVED DISABLED PARKING SIGN 12"x 18"
VAN ACCESSIBLE — PROVIDE VAN SIGN WHERE APPLICABLE 12"x 6"



KEY MAP

SCALE: 1"= 200'-0"

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MATERIAL LEGEND

- BIKE RACK AS SPECIFIED
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- TRASH RECEPTACLE AS SPECIFIED
- BENCH AS SPECIFIED
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- TUBE STEEL FENCE LOCATION
- PLAYGROUND EDGE (TYPICAL)
- FIRE LANE STRIPING SEE DETAIL.
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- SCORE JOINT (TYPICAL)
- CURB AND GUTTER LOCATION
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- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
- (S1) SITE SIGNAGE IDENTIFICATION
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON

MATERIAL LEGEND

- ASPHALT WALKING PATH PER DETAIL 9/SD5.7
- PLAYGROUND SYNTHETIC TURF SURFACING. SEE DETAIL 2/SD4.8 AND SPECIFICATIONS
- TURF SOD OVER APPROVED TOPSOIL AS SPECIFIED
- 3" DEPTH OF 1/2" MINUS BLACK CINDER ROCK MULCH OVER DEWITT 5 PRO WEED BARRIER FABRIC AND TOPSOIL AS SPECIFIED OR APPROVED EQUAL
- PROPOSED BUILDING
- TURF SEED MIX AND TOPSOIL AS SPECIFIED

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Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LICENSED LANDSCAPE ARCHITECT — LA-16536 — 2/11/2022

Revisions	
Description	Date

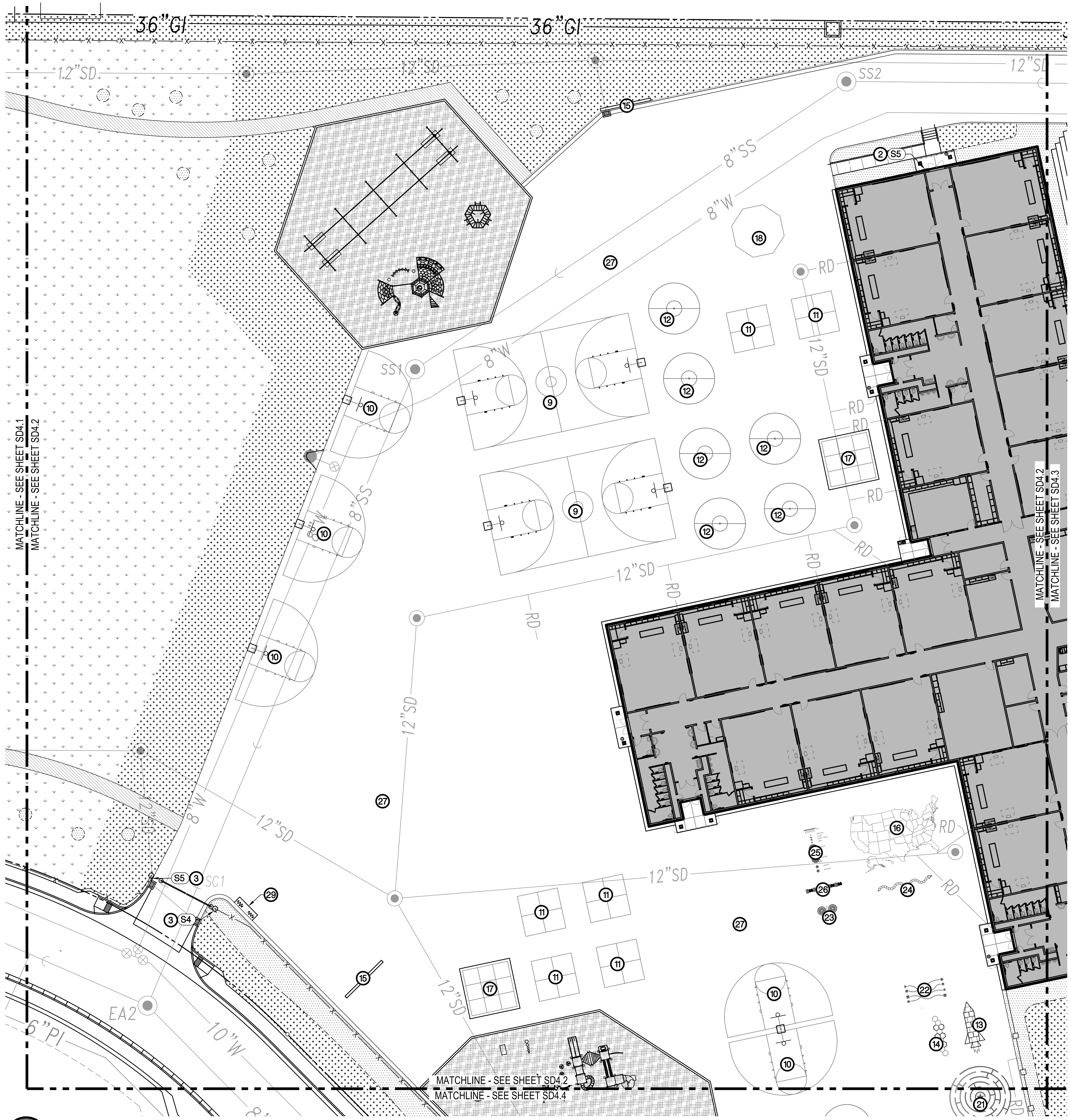
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD4.1
MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA ONE



MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA TWO

SCALE: 1"= 20'-0"

PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1952 TYPES I AND 2.
ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH: REMOVE DIRT, LOOSE MORTAR, SCALE, SALT OR ALKALI POWDER AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE; RINSE WELL AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING OF CORRODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

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  B. "NO PARKING - FIRE ZONE" SHALL BE PAINTED RED.
- PAINTED ARROWS, VERIFY EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT. SEE DETAIL.
- PAINTED STOP BAR. SEE DETAIL.
- TETHERBALL AS SPECIFIED -SEE DETAIL
- FOUR SQUARE - SEE DETAIL
- HOPSCOTCH, SEE DETAIL.

CALLOUT LEGEND

1. SIGN POST AND FOOTING, SEE DETAILS 7, 8, AND 9/SD4.7, TYPICAL. PROVIDE CONCRETE APRON IN TURF LOCATIONS. MOUNT SIGN TO POST.
2. MOUNT SIGN TO BUILDING. COORDINATE WITH ARCHITECT FOR MOUNTING REQUIREMENTS.
3. MOUNT SIGN TO FENCING.
4. 4" WIDE WHITE PARKING LOT STRIPING, SEE DETAIL 3/SD4.7.
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6. PAINTED ARROWS, SEE DETAIL 1/SD4.7.
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22. 'FIND THE CORRECT PATH GAME' STRIPING AS SPECIFIED.
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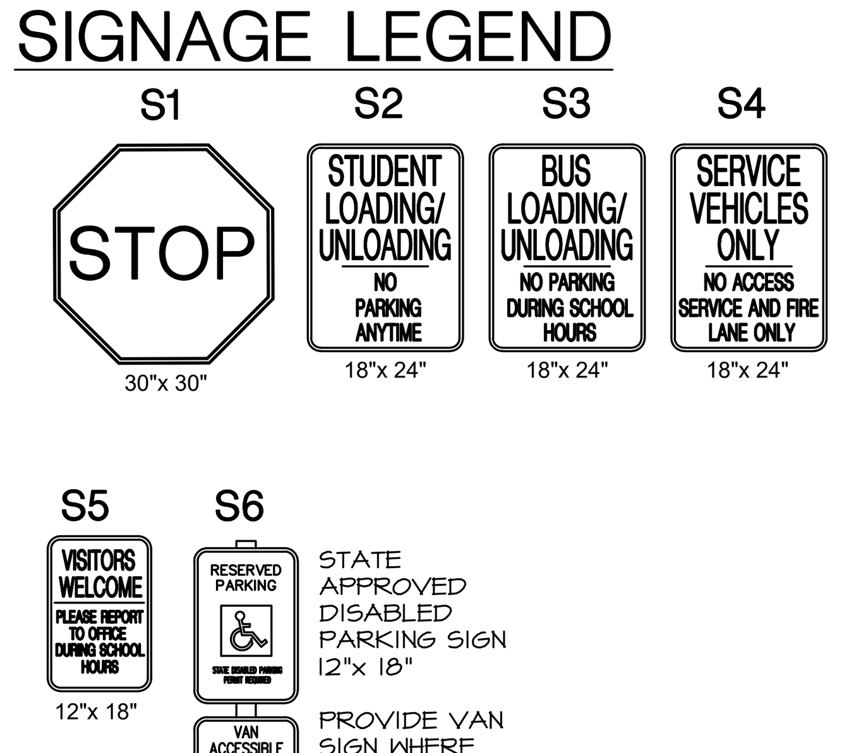
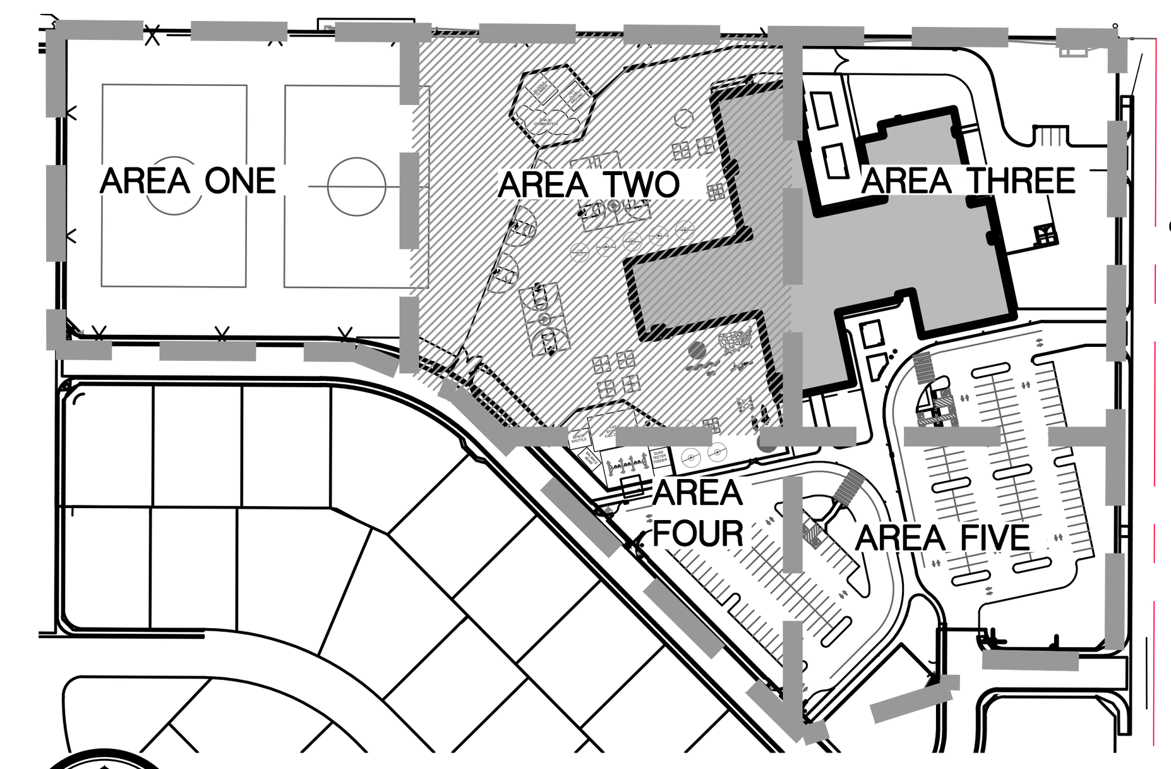
29. 3' X 10' CONCRETE PAD. BIKE RACKS TO BE MOUNTED ON CONCRETE PAD.

SIGNAGE LEGEND



STATE APPROVED DISABLED PARKING SIGN 12"x 18"

PROVIDE VAN SIGN WHERE APPLICABLE 12"x 6"



KEY MAP

SCALE: 1"= 200'-0"

811
Know what's below. Call before you dig.
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MATERIAL LEGEND

- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP AS SPECIFIED
- TRASH RECEPTACLE AS SPECIFIED
- BENCH AS SPECIFIED
- CHAIN LINK FENCE LOCATION
- TUBE STEEL FENCE LOCATION
- PLAYGROUND EDGE (TYPICAL)
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- VERTICAL CURBING LOCATION
- SCORE JOINT (TYPICAL)
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- LIGHT POLE WITH CONCRETE APRON
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- PROPOSED BUILDING
- TURF SEED MIX AND TOPSOIL AS SPECIFIED

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STATE OF IDAHO
JON FRITZ BRECKON
LA-16536
2/11/2022
LICENSED LANDSCAPE ARCHITECT

Revisions	
Description	Date

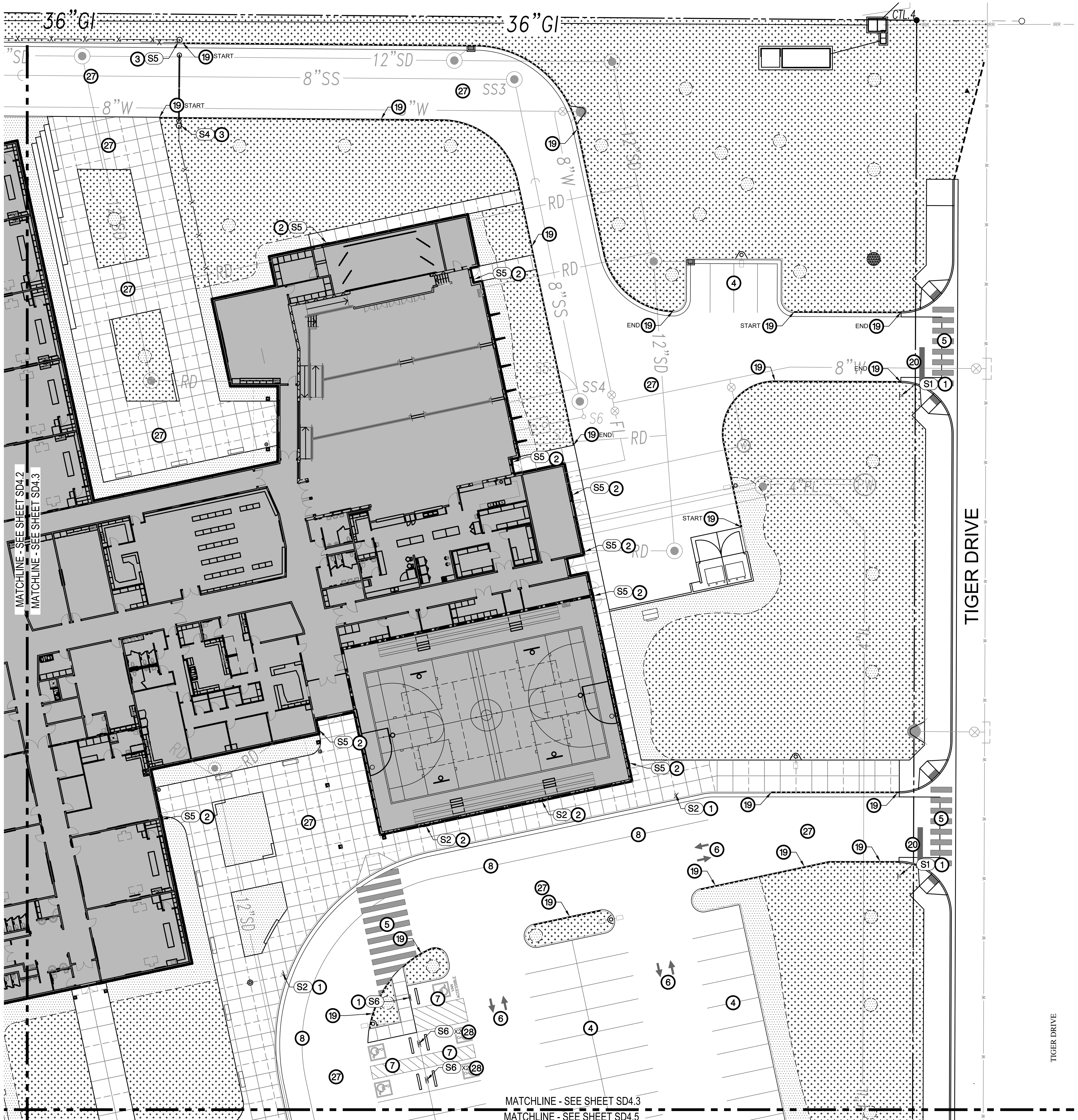
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD4.2
MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA TWO



MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA THREE

SCALE: 1"= 20'-0"

PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1952 TYPES 1 AND 2.
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  B. "NO PARKING - FIRE ZONE" SHALL BE PAINTED RED.
- PAINTED ARROWS, VERIFY EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT. SEE DETAIL.
- STOP — PAINTED STOP BAR. SEE DETAIL.
- TETHERBALL AS SPECIFIED -SEE DETAIL
- FOUR SQUARE - SEE DETAIL
- HOPSCOTCH, SEE DETAIL.

CALLOUT LEGEND

1. SIGN POST AND FOOTING, SEE DETAILS 7, 8, AND 9/SD4.7, TYPICAL. PROVIDE CONCRETE APRON IN TURF LOCATIONS. MOUNT SIGN TO POST.
2. MOUNT SIGN TO BUILDING. COORDINATE WITH ARCHITECT FOR MOUNTING REQUIREMENTS.
3. MOUNT SIGN TO FENCING.
4. 4" WIDE WHITE PARKING LOT STRIPING, SEE DETAIL 3/SD4.7.
5. CROSSWALK STRIPING, SEE DETAIL 2/SD4.7.
6. PAINTED ARROWS, SEE DETAIL 1/SD4.7.
7. ACCESSIBLE PARKING STALL LAYOUT, SEE DETAIL 5/SD4.7.
8. 12" WIDE TRAFFIC CONTROL STRIPE
9. BASKETBALL COURT, SEE DETAIL 10/SD4.7.
10. BASKET BALL HALF COURT, SEE DETAIL 13/SD4.7.
11. FOUR SQUARE STRIPING, SEE DETAIL 12/SD4.7.
12. TETHERBALL COURT, SEE DETAIL 11/SD4.7.
13. ROCKET SHIP HOPSCOTCH STRIPING, SEE DETAIL 14/SD4.7.
14. HEXAGON HOPSCOTCH STRIPING, SEE DETAIL 1/SD4.8.
15. WALL BALL, SEE DETAILS 3 AND 4/SD4.8.
16. USA MAP STRIPING AS SPECIFIED.
17. 9 SQUARE IN THE AIR AS SPECIFIED. SURFACE MOUNT ON A 20' X 20' CONCRETE PAD.
18. GAGA BALL AS SPECIFIED.
19. FIRE LANE STRIPING, SEE DETAIL 4/SD4.7.
20. PAINTED LETTERING AND STOP BAR, SEE DETAIL 6/SD4.7.
21. 'PLAYGROUND CIRCLE MAZE' STRIPING AS SPECIFIED.
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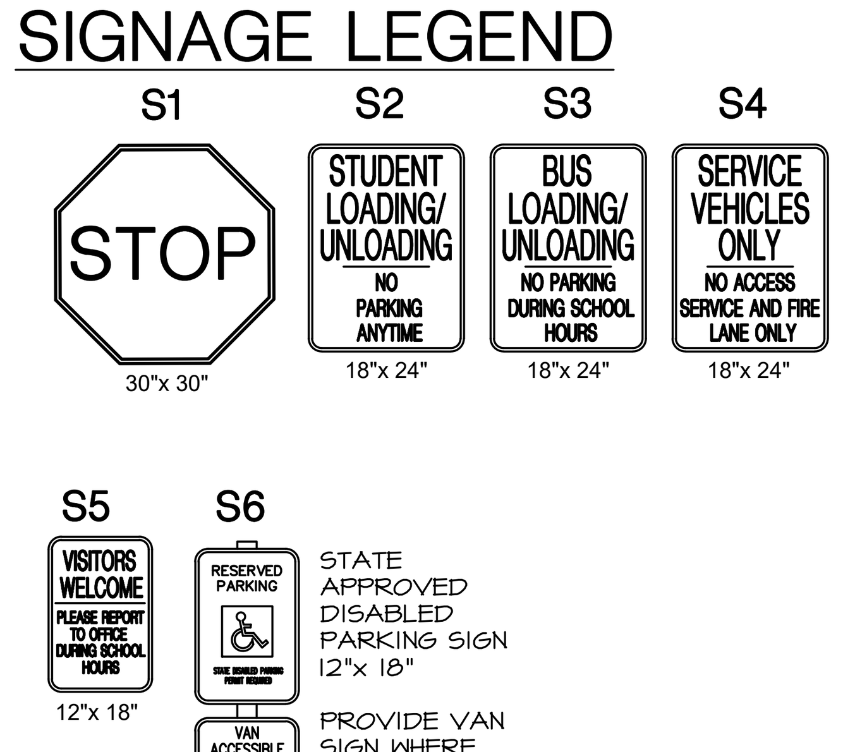
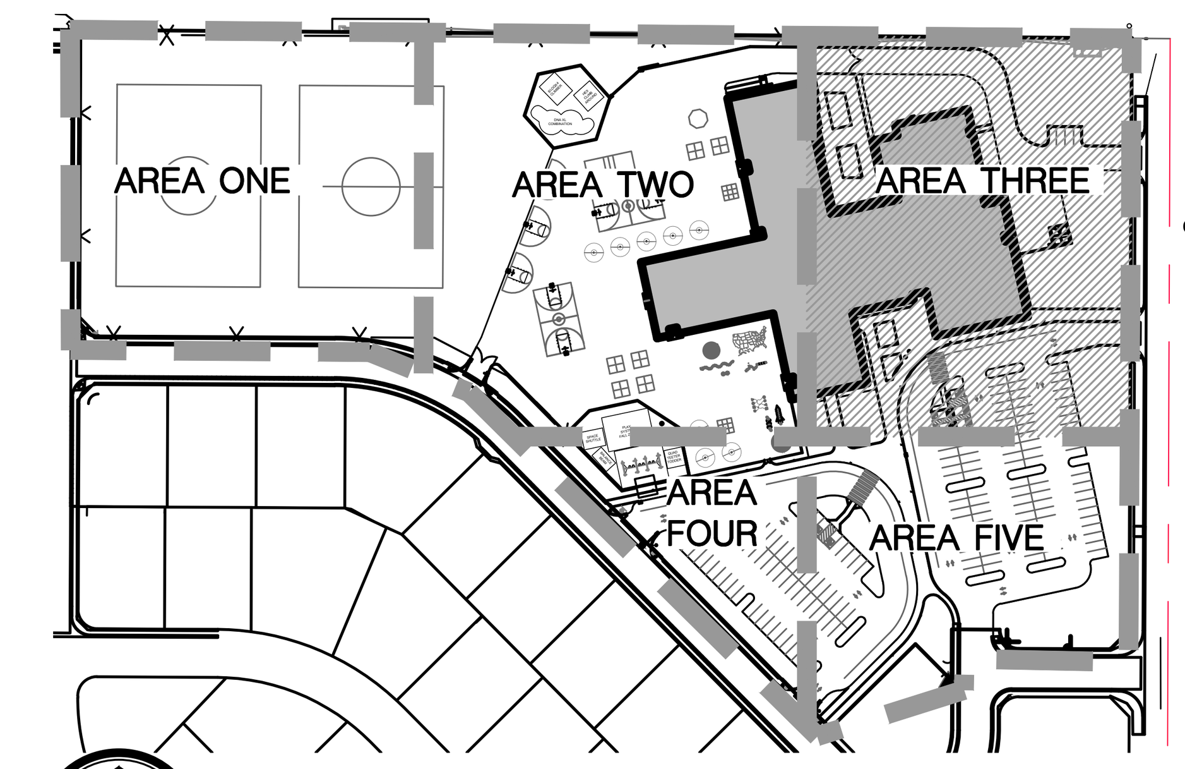
26. 'MOON BOOTS BODY HOP' STRIPING AS SPECIFIED.
27. REFER TO CIVIL PLANS FOR HARDSCAPE MATERIALS IN THIS AREA.
28. SIGN POST IN STEEL BOLLARD, SEE DETAILS 7 AND 9/SD4.7 AND 5 AND 6/SD4.8.
29. 3' X 10' CONCRETE PAD. BIKE RACKS TO BE MOUNTED ON CONCRETE PAD.

SIGNAGE LEGEND



STATE APPROVED DISABLED PARKING SIGN 12"x 18"

PROVIDE VAN SIGN WHERE APPLICABLE 12"x 6"



KEY MAP

SCALE: 1"= 200'-0"

MATERIAL LEGEND

- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP AS SPECIFIED
- TRASH RECEPTACLE AS SPECIFIED
- BENCH AS SPECIFIED
- CHAIN LINK FENCE LOCATION
- TUBE STEEL FENCE LOCATION
- PLAYGROUND EDGE (TYPICAL)
- FIRE LANE STRIPING SEE DETAIL.
- INTEGRAL CURB / WALK LOCATION
- VERTICAL CURBING LOCATION
- SCORE JOINT (TYPICAL)
- CURB AND GUTTER LOCATION
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
- S1 — SITE SIGNAGE IDENTIFICATION
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON

MATERIAL LEGEND

- ASPHALT WALKING PATH PER DETAIL 9/SD5.7
- PLAYGROUND SYNTHETIC TURF SURFACING. SEE DETAIL 2/SD4.8 AND SPECIFICATIONS
- TURF SOD OVER APPROVED TOPSOIL AS SPECIFIED
- 3" DEPTH OF 1/2" MINUS BLACK CINDER ROCK MULCH OVER DEWITT 5 PRO WEED BARRIER FABRIC AND TOPSOIL AS SPECIFIED OR APPROVED EQUAL
- PROPOSED BUILDING
- TURF SEED MIX AND TOPSOIL AS SPECIFIED

811
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LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

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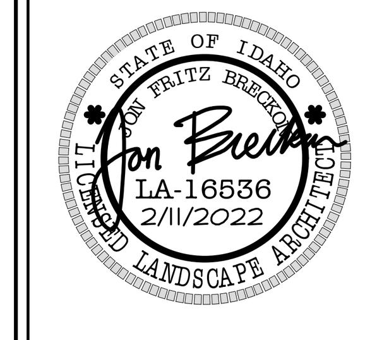
Fax: 208-376-6528
Phone: 208-376-5153
6661 North Glenwood Street
Garden City, Idaho 83714



Revisions	
Description	Date

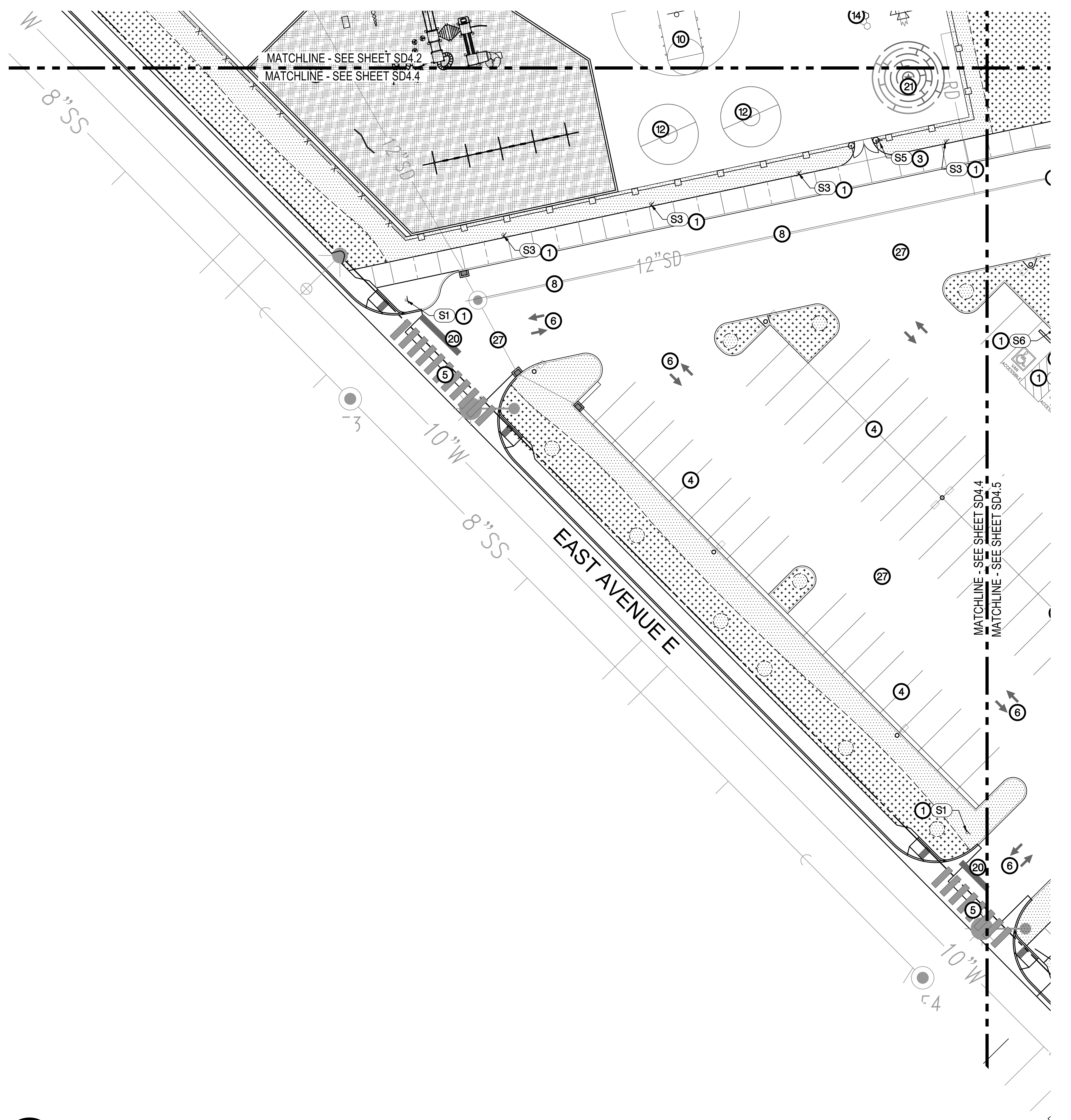
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD4.3
MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA THREE

S:_projects\2021\21114 jerome elementary\CAD\sheets\SD4.0 MATERIALS PLAN.dwg plotted by: cvalle on Fri, February 18 2022 at 03:31 PM



MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA FOUR

SCALE: 1"= 20'-0"

PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1952 TYPES 1 AND 2.
ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH:REMOVE DIRT, LOOSE MORTAR, SCALE, SALT OR ALKALI POWDER AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE; RINSE WELL AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING OF CORRODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

PAINTED STRIPING ON ASPHALT PAVING PARKING STALL STRIPES TO BE 4" WIDE WHITE; UNLESS NOTED OTHERWISE.
A. HANDICAP SYMBOLS SHALL BE PAINTED STANDARD BLUE.
B. "NO PARKING - FIRE ZONE" SHALL BE PAINTED RED.

PAINTED ARROWS, VERIFY EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT. SEE DETAIL.

STOP — PAINTED STOP BAR. SEE DETAIL.

TETHERBALL AS SPECIFIED -SEE DETAIL

FOUR SQUARE - SEE DETAIL

HOPSCOTCH, SEE DETAIL.

CALLOUT LEGEND

1. SIGN POST AND FOOTING, SEE DETAILS 7, 8, AND 9/SD4.7, TYPICAL. PROVIDE CONCRETE APRON IN TURF LOCATIONS. MOUNT SIGN TO POST.
2. MOUNT SIGN TO BUILDING. COORDINATE WITH ARCHITECT FOR MOUNTING REQUIREMENTS.
3. MOUNT SIGN TO FENCING.
4. 4" WIDE WHITE PARKING LOT STRIPING, SEE DETAIL 3/SD4.7.
5. CROSSWALK STRIPING, SEE DETAIL 2/SD4.7.
6. PAINTED ARROWS, SEE DETAIL 1/SD4.7.
7. ACCESSIBLE PARKING STALL LAYOUT, SEE DETAIL 5/SD4.7.
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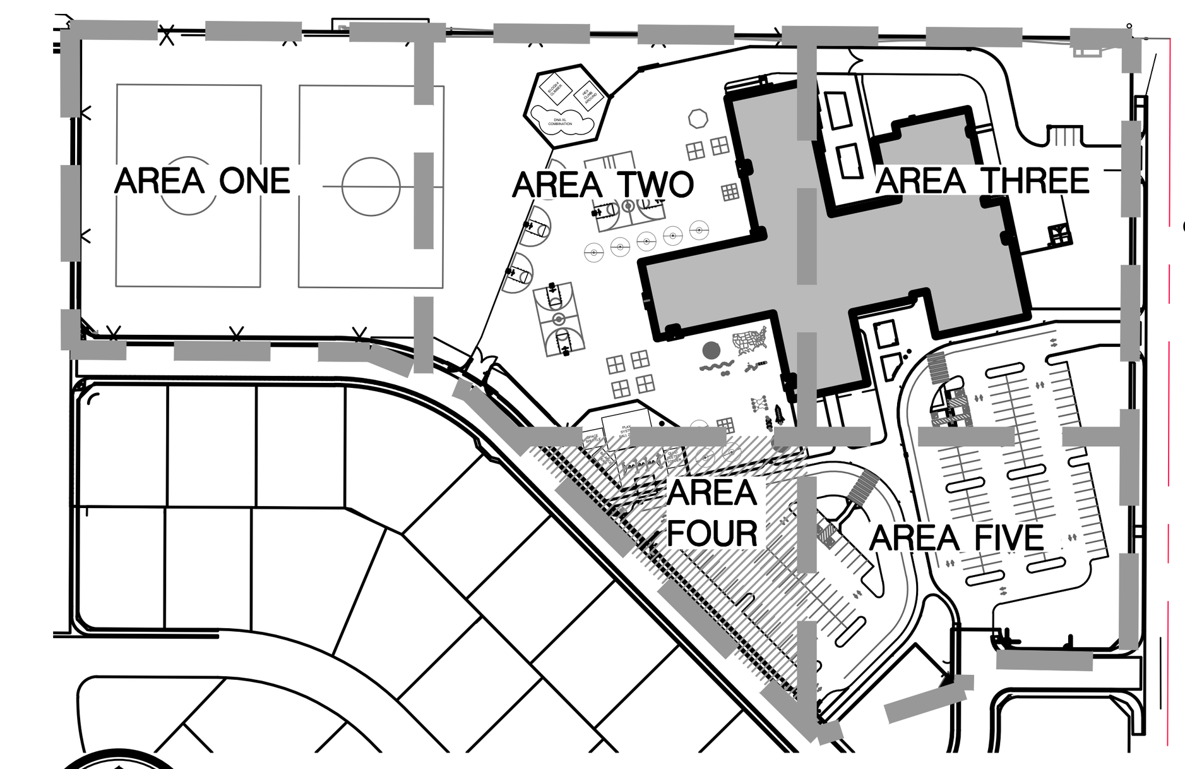

KEY MAP

SCALE: 1"= 200'-0"

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MATERIAL LEGEND

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MATERIAL LEGEND

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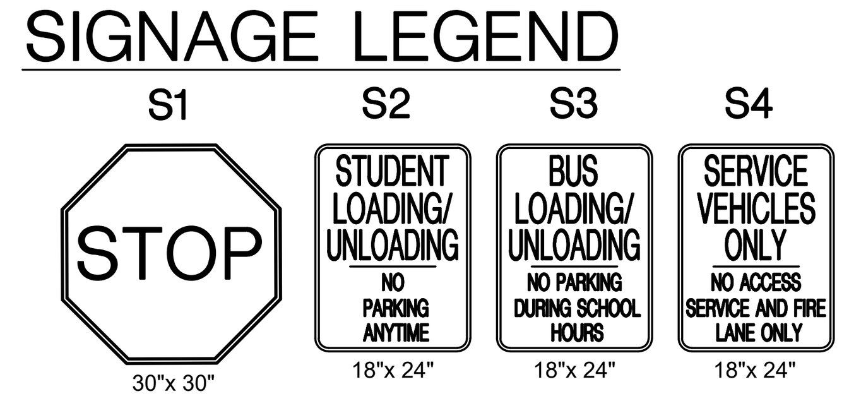
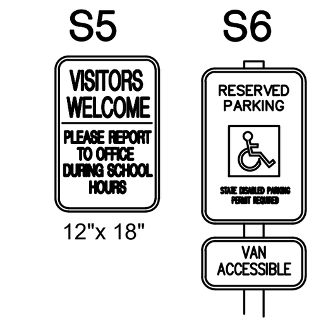
SIGNAGE LEGEND





STATE APPROVED DISABLED PARKING SIGN 12"x 18"

PROVIDE VAN SIGN WHERE APPLICABLE 12"x 6"

LKV ARCHITECTS
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Phone: 208-376-5153
6661 North Glenwood Street
Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LICENSED LANDSCAPE ARCHITECT — LA-16536 — 2/11/2022

Revisions	Description	Date
1		

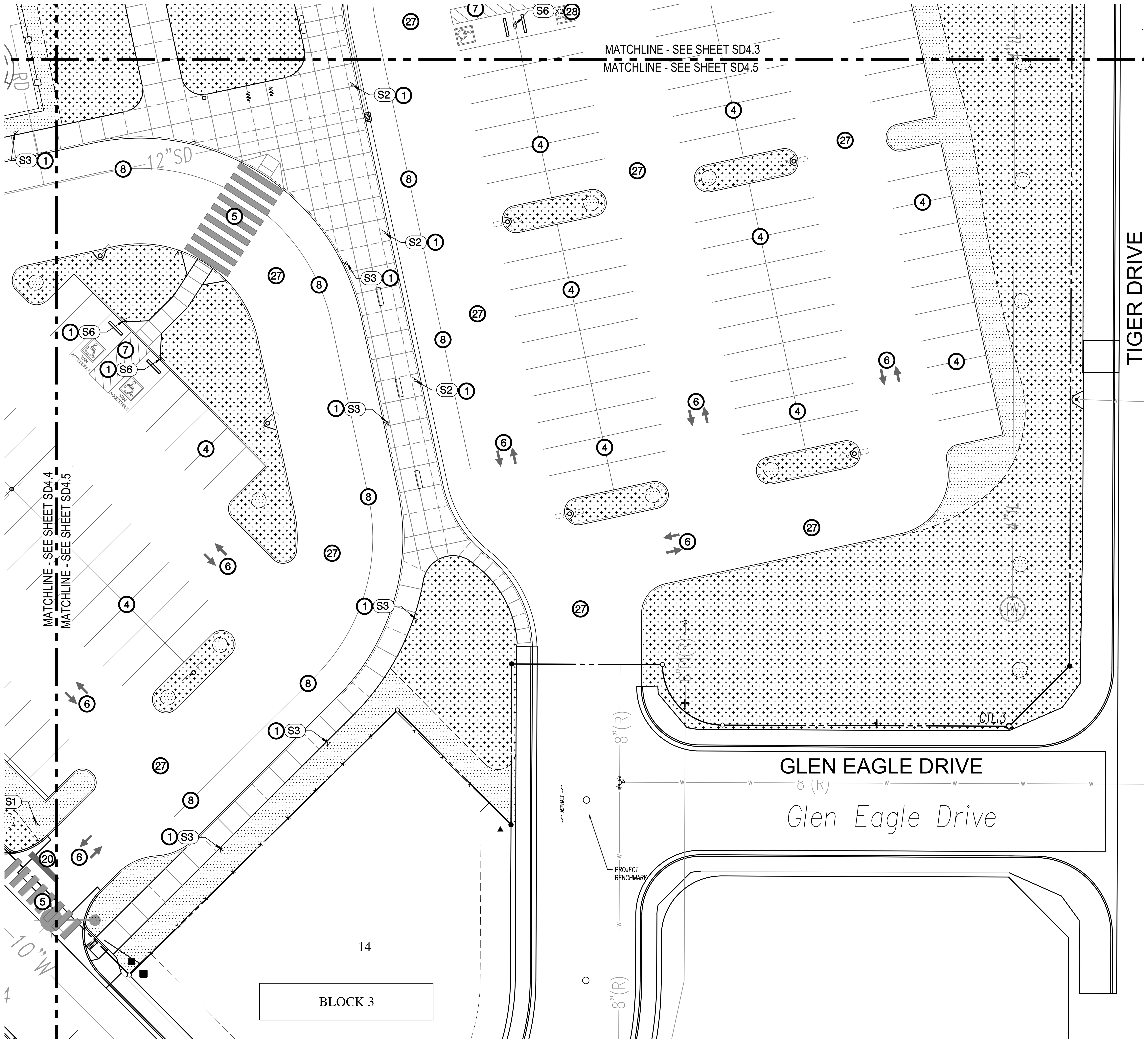
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD4.4
MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA FOUR



MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA FIVE

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FOUR SQUARE - SEE DETAIL

HOPSCOTCH, SEE DETAIL.

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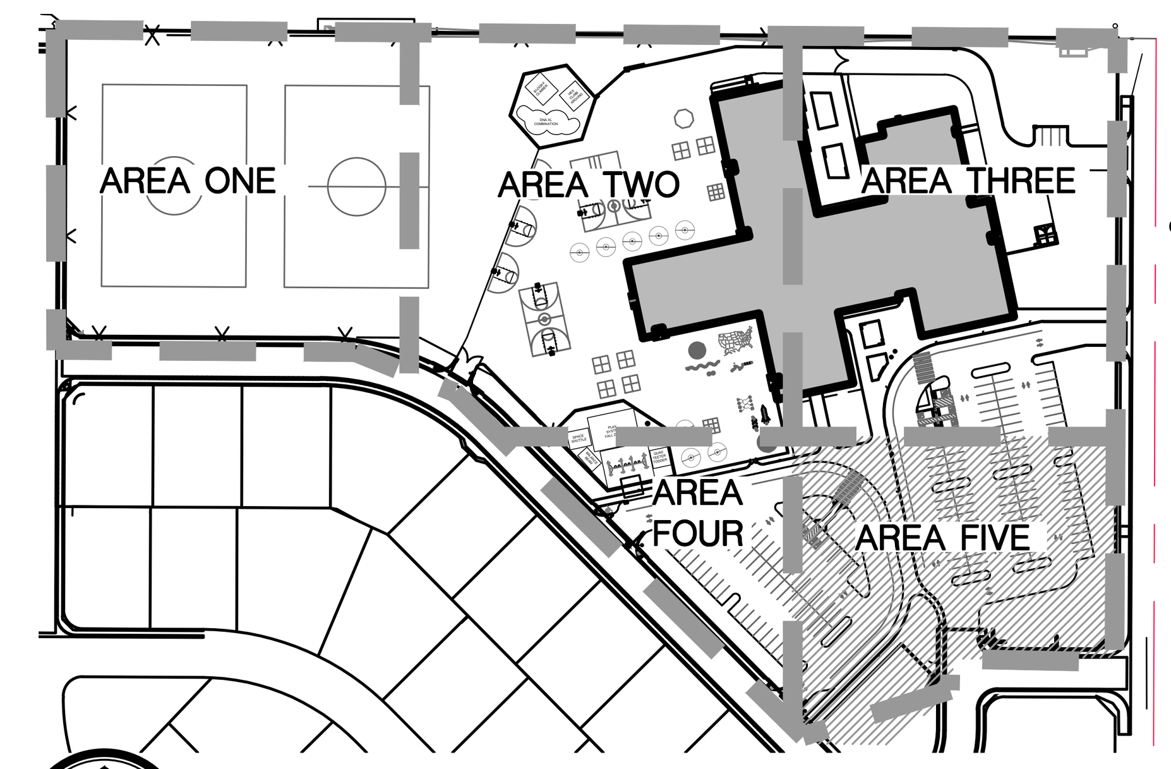

KEY MAP

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- LIGHT POLE WITH CONCRETE APRON
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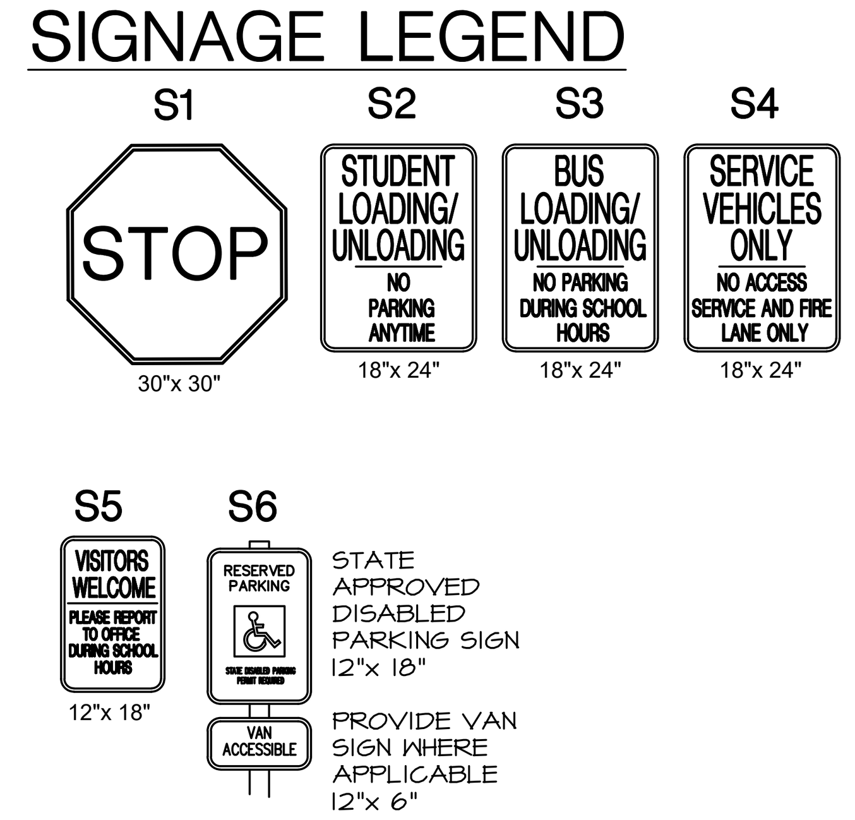

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6661 North Glenwood Street
Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LA-16536 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions	
Description	Date
#	

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

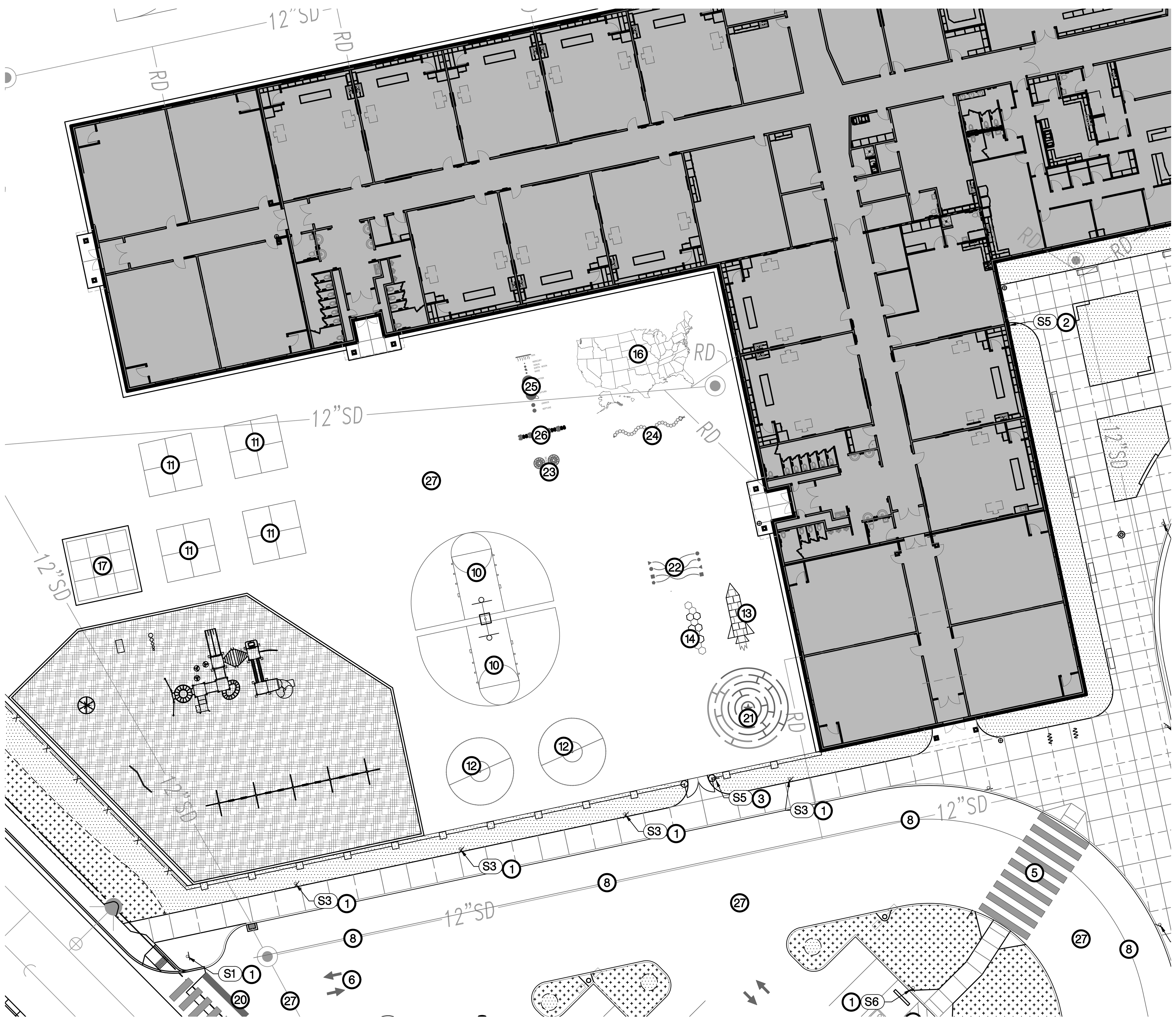
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD4.5

MATERIALS, STRIPING, AND SIGNAGE PLAN- AREA FIVE

S:_projects\2021\21114 jerome elementary\CAD\sheets\SD4.0 MATERIALS PLAN.dwg plotted by: cvalle on Fri, February 18 2022 at 09:30 AM



MATERIALS, STRIPING, AND SIGNAGE PLAN- ADD ALTERNATES

20 0 20 40 60

SCALE: 1"= 20'-0"

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TRASH RECEPTACLE AS SPECIFIED

BENCH AS SPECIFIED

CHAIN LINK FENCE LOCATION

TUBE STEEL FENCE LOCATION

PLAYGROUND EDGE (TYPICAL)

FIRE LANE STRIPING SEE DETAIL.

INTEGRAL CURB / WALK LOCATION

VERTICAL CURBING LOCATION

SCORE JOINT (TYPICAL)

CURB AND GUTTER LOCATION

EXPANSION JOINT (TYPICAL)

ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE

NEW CONCRETE FLATWORK

SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL

S1 — SITE SIGNAGE IDENTIFICATION

LIGHT POLE WITH CONCRETE APRON

LIGHT POLE WITHOUT CONCRETE APRON

MATERIAL LEGEND

ASPHALT WALKING PATH PER DETAIL 9/SD5.7

PLAYGROUND SYNTHETIC TURF SURFACING. SEE DETAIL 2/SD4.8 AND SPECIFICATIONS

TURF SOD OVER APPROVED TOPSOIL AS SPECIFIED

3" DEPTH OF 1/2" MINUS BLACK CINDER ROCK MULCH OVER DEWITT 5 PRO WEED BARRIER FABRIC AND TOPSOIL AS SPECIFIED OR APPROVED EQUAL

PROPOSED BUILDING

TURF SEED MIX AND TOPSOIL AS SPECIFIED

SIGNAGE LEGEND

S1	S2	S3	S4
STOP	STUDENT LOADING/ UNLOADING NO PARKING ANYTIME	BUS LOADING/ UNLOADING NO PARKING DURING SCHOOL HOURS	SERVICE VEHICLES ONLY NO ACCESS SERVICE AND FIRE LANE ONLY
30"x 30"	18"x 24"	18"x 24"	18"x 24"

S5: VISITORS WELCOME PLEASE REPORT TO OFFICE DURING SCHOOL HOURS — 12"x 18"

S6: RESERVED PARKING — STATE APPROVED DISABLED PARKING SIGN 12"x 18"

VAN ACCESSIBLE — PROVIDE VAN SIGN WHERE APPLICABLE 12"x 6"

811
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6661 North Glenwood Street
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STATE OF IDAHO
JON FRITZ BRECKON
LA-16536
2/11/2022
LICENSED LANDSCAPE ARCHITECT

Revisions		
#	Description	Date

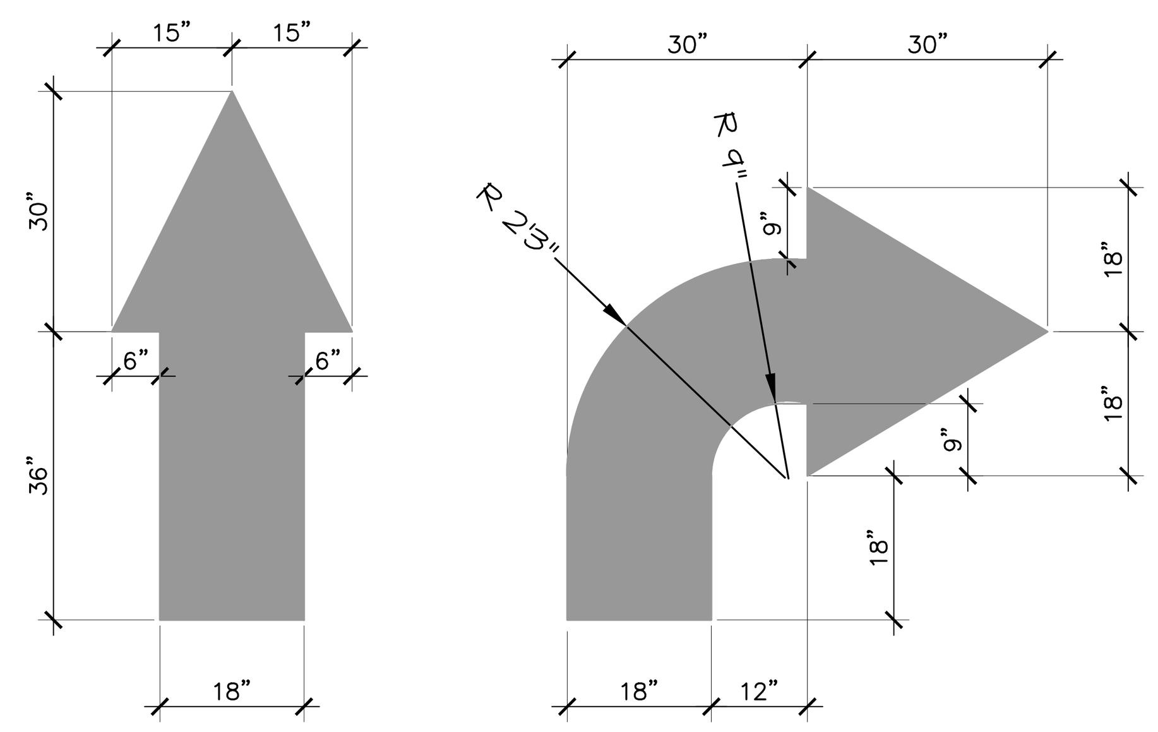
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

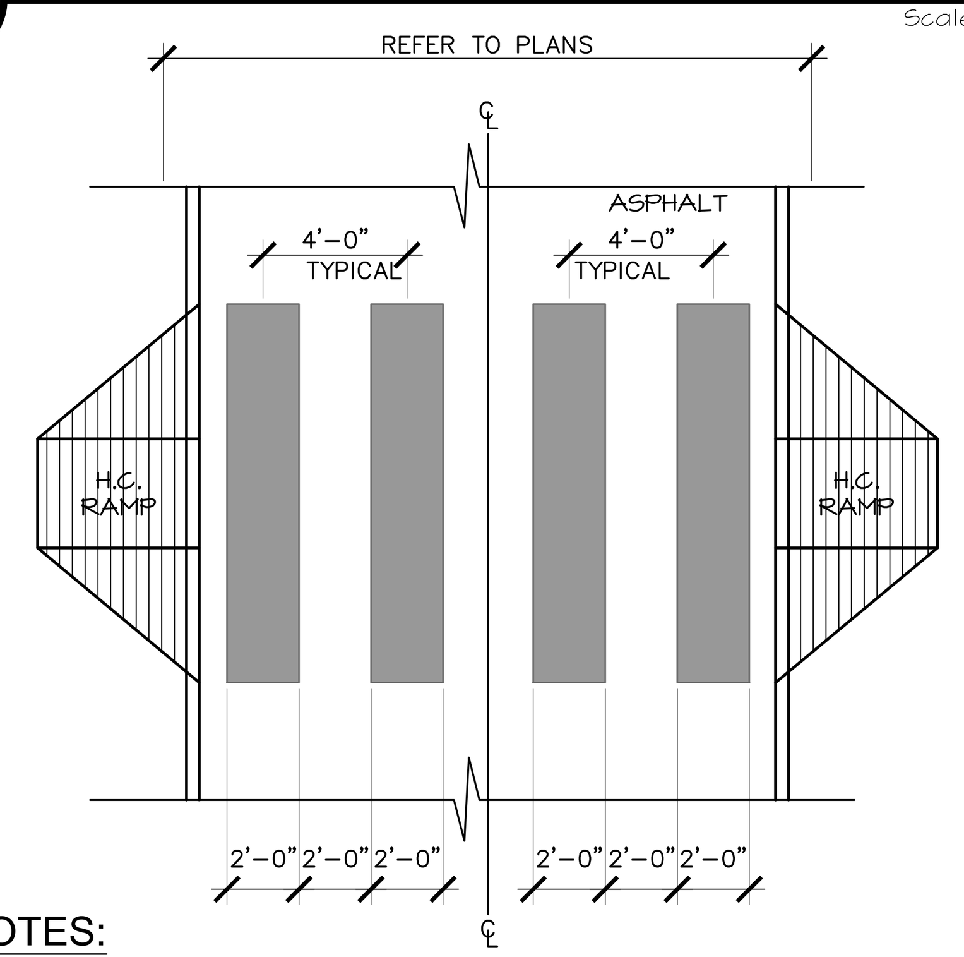
BID SET

DRAWING NO.:
SD4.6
MATERIALS, STRIPING, AND SIGNAGE PLAN- ADD ALTERNATES



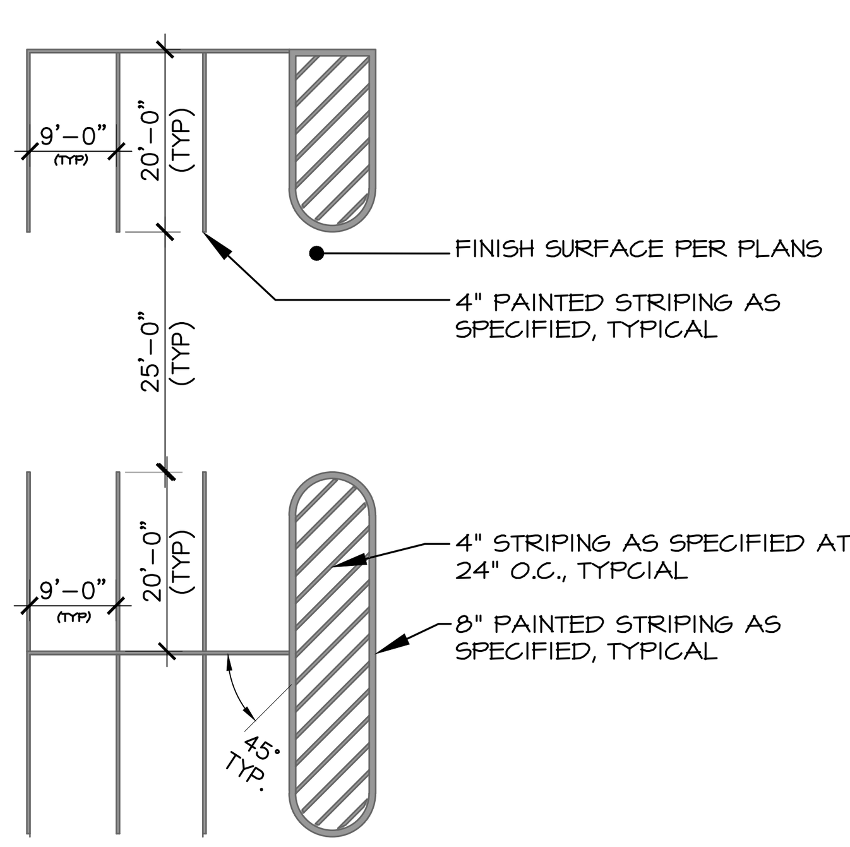
NOTES:
1. PAINT TRAFFIC LINES SOLID WHITE
2. REFER TO SITE PLAN FOR LOCATION AND DIRECTION.
3. SEE SPECIFICATIONS FOR ADDITONAL INFORMATION

1 PAINTED ARROWS
Scale: 1/2"= 1'-0"



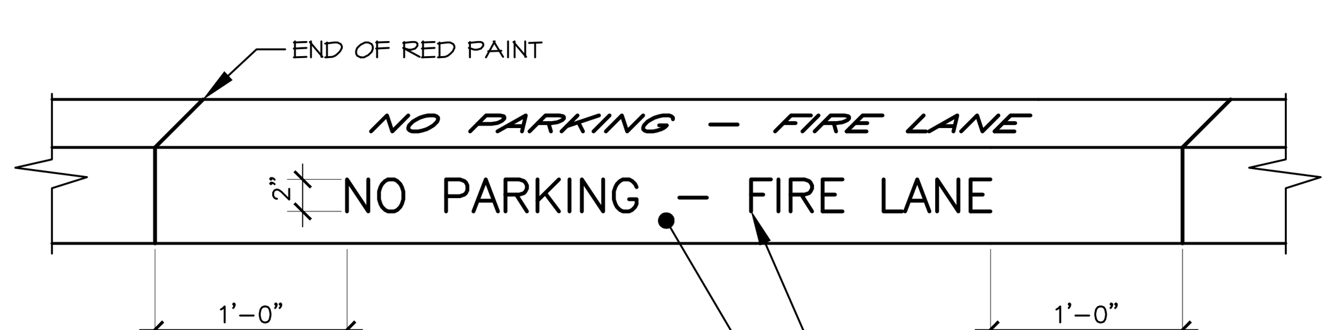
NOTES:
1. REFER TO LAYOUT PLAN FOR EXACT LOCATIONS AND WIDTH OF CROSSWALKS.
2.
3. STRIPING SHALL BE "HOT TAPE" TO MEET ALL CITY OF JEROME REQUIREMENTS.
4.
5. STRIPING SHALL NOT BE PLACED IN THE WHEEL TRACK AREA. COORDINATE WITH CITY TO FIELD VERIFY EXACT STRIPING LOCATIONS.

2 CROSSWALK STRIPING TYPE ONE
Scale: 3/16"= 1'-0"



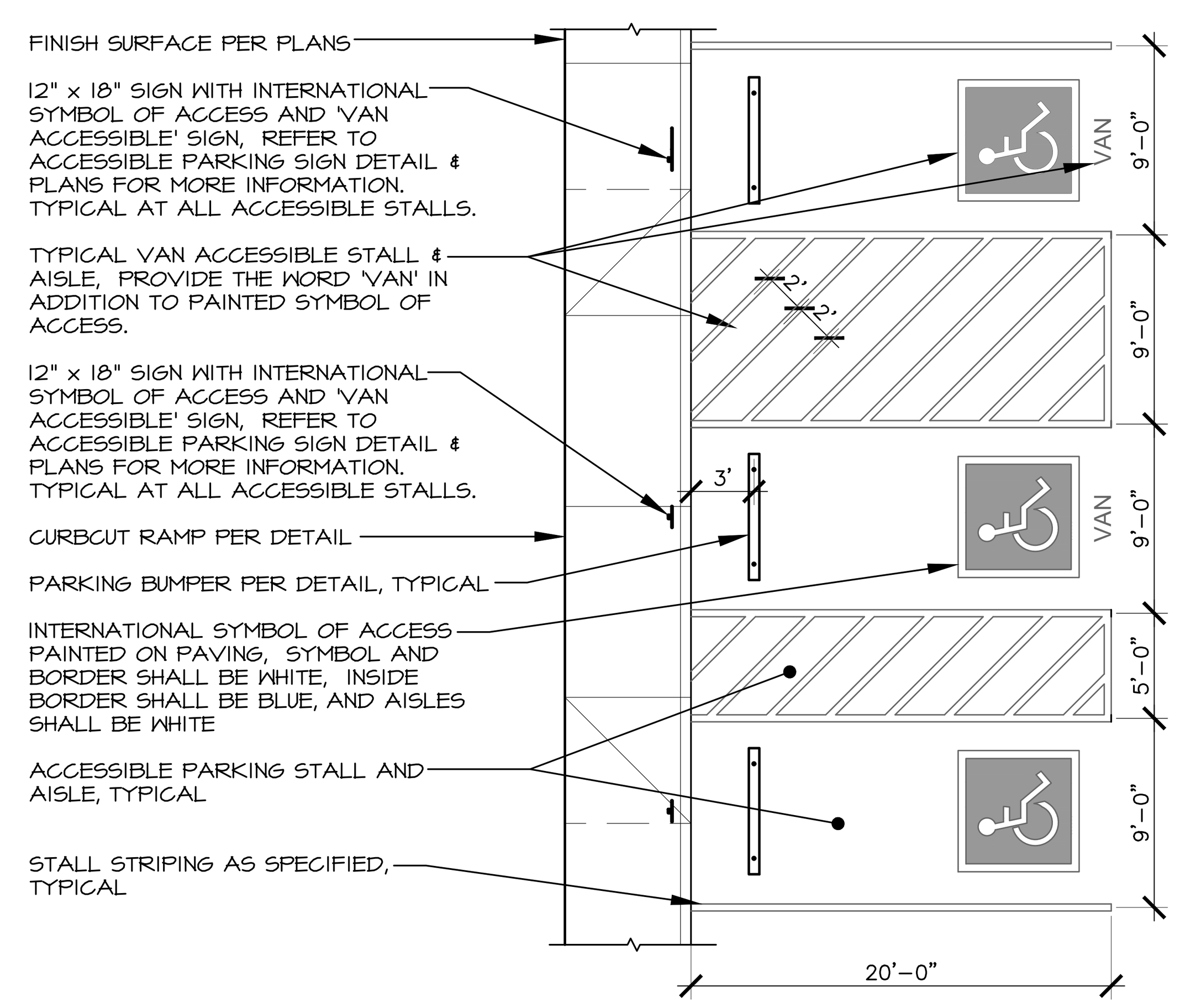
NOTE:
1. REFER TO LAYOUT PLAN FOR SPECIFIC STALL LOCATIONS AND DIMENSIONS.
2. DIMENSIONS ON THE PLANS SHALL SUPERCEDE THOSE OF THE DETAIL

3 PARKING LOT STRIPING
Scale: 1"= 20'-0"

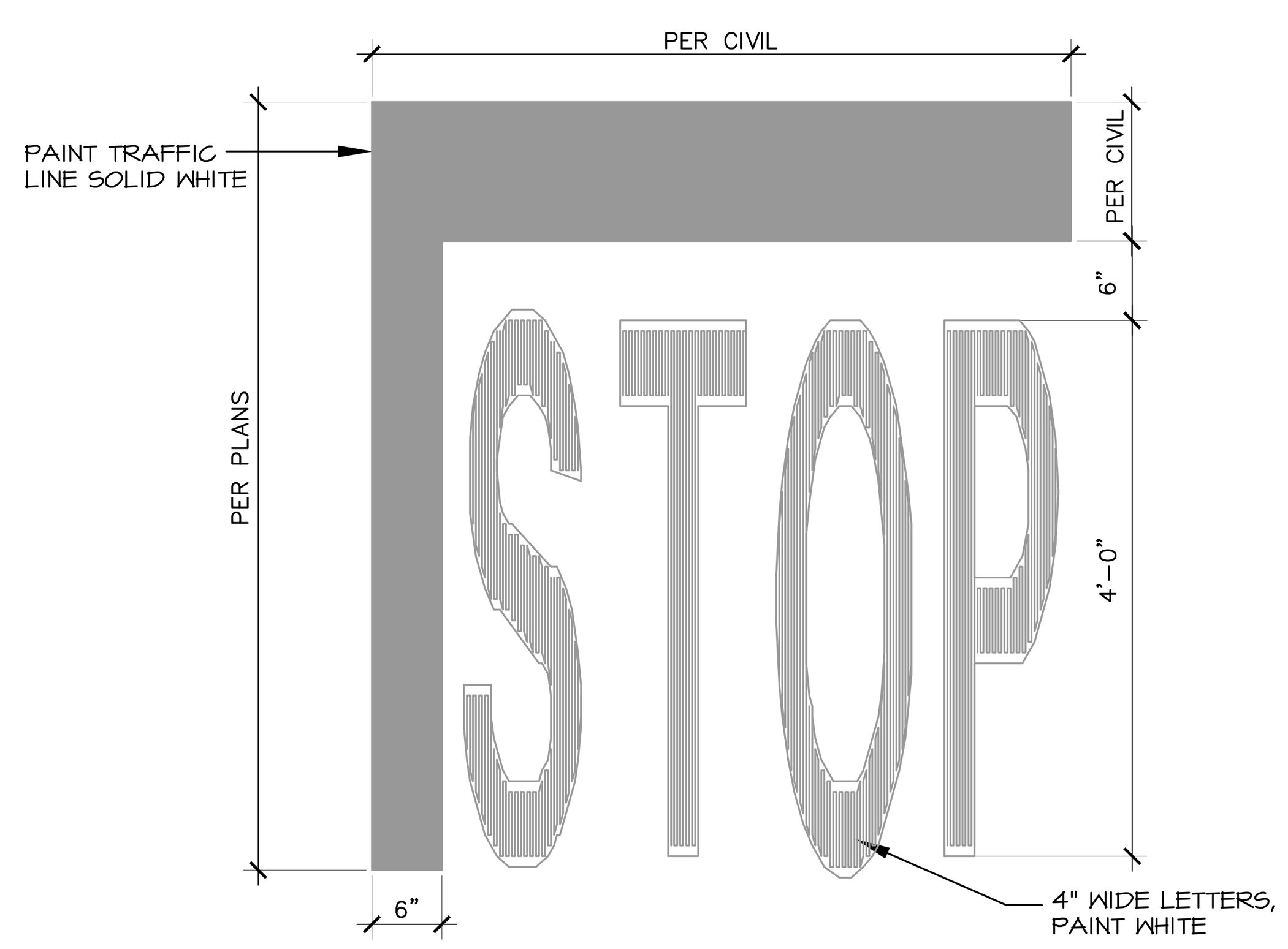


NOTE:
1. VERIFY LOCATION WITH LOCAL FIRE DEPARTMENT PRIOR TO INSTALLATION.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4 PAINTED CURB DETAIL FIRE ZONE
SCALE: 1"=1'-0"

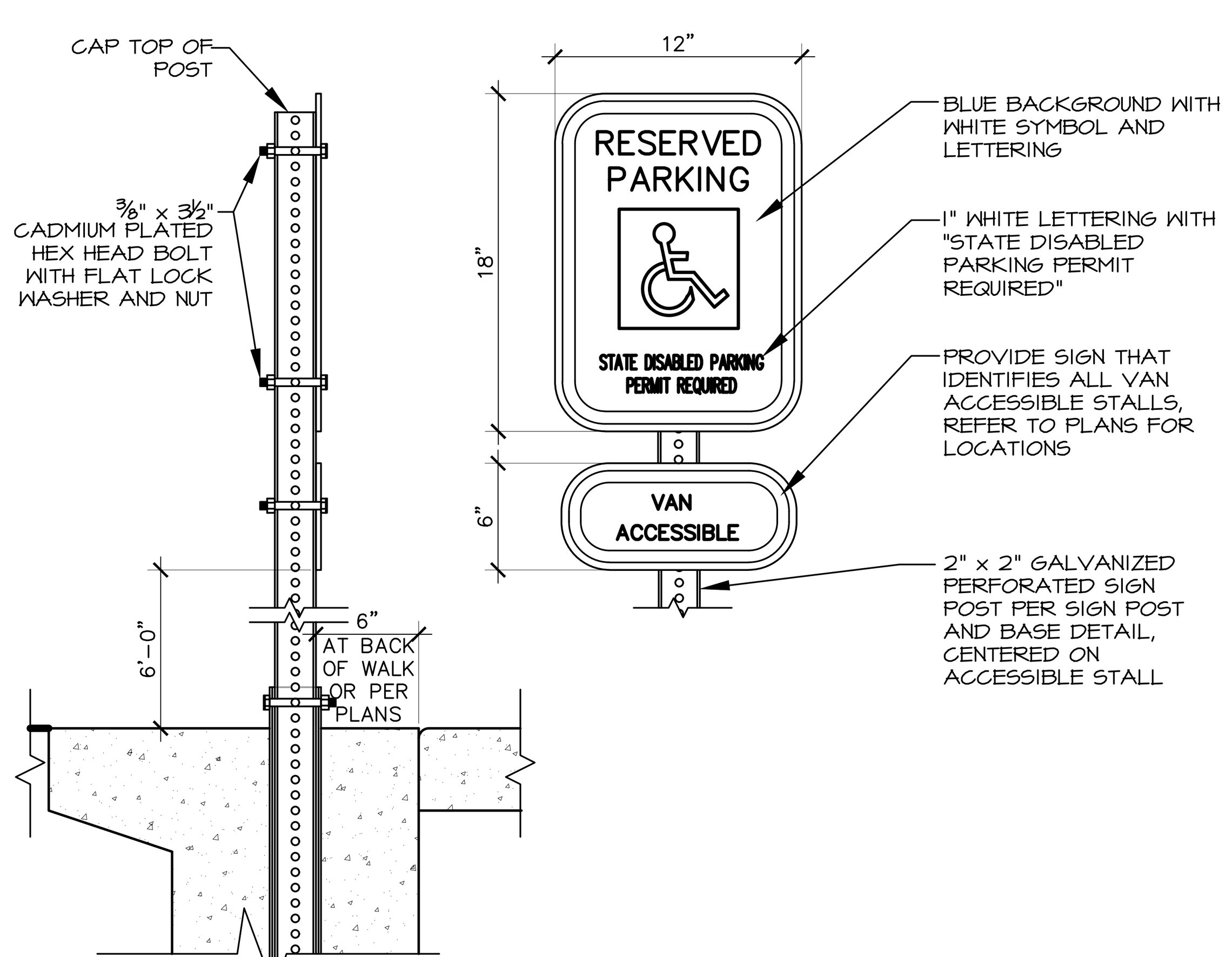


5 ACCESSIBLE PARKING STALL LAYOUT
Scale: 1/8"= 1'-0"

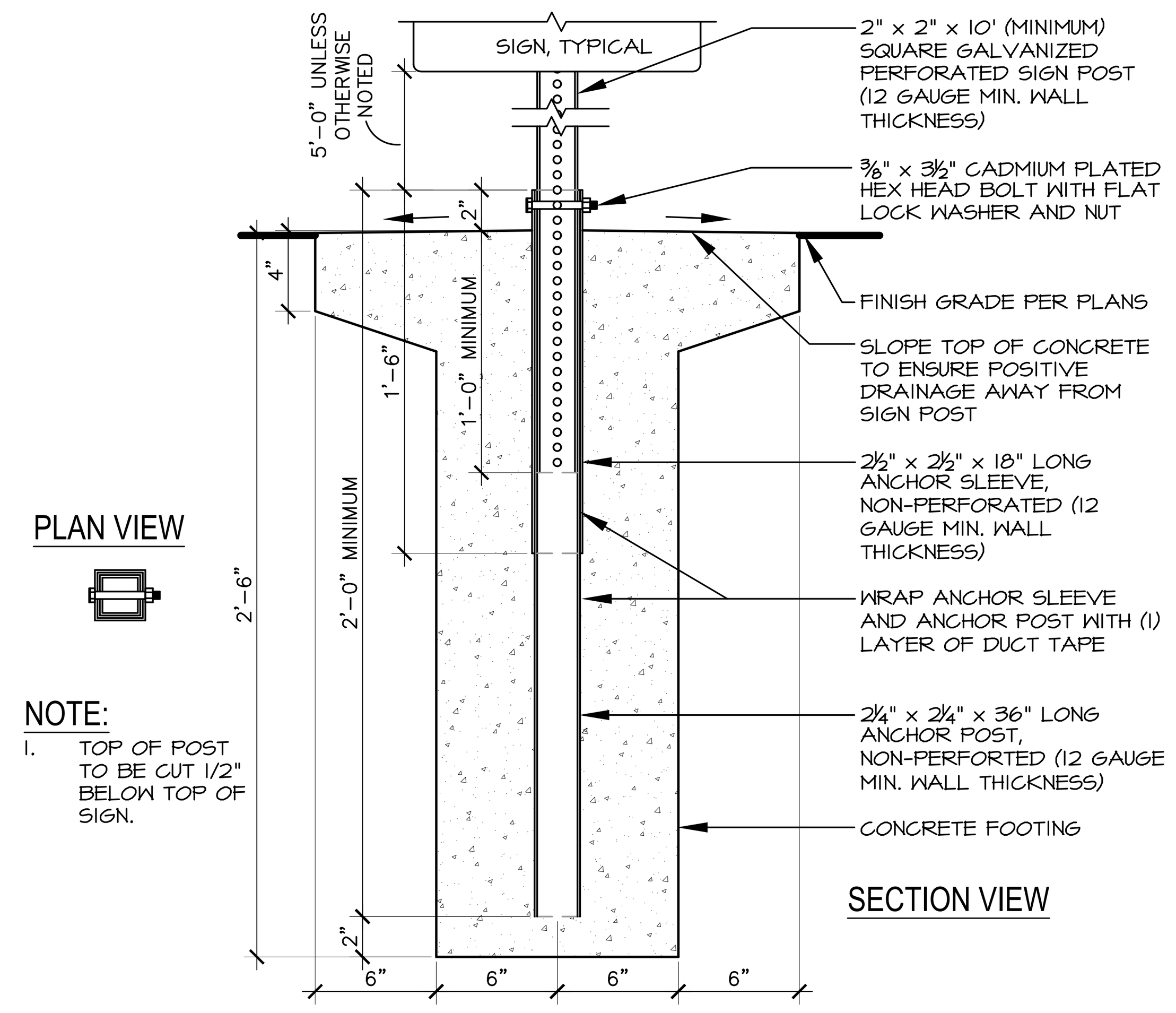


NOTE:
1. VERIFY LOCATION PRIOR TO INSTALLATION.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6 PAINTED TEXT
Scale: 3/4"= 1'-0"

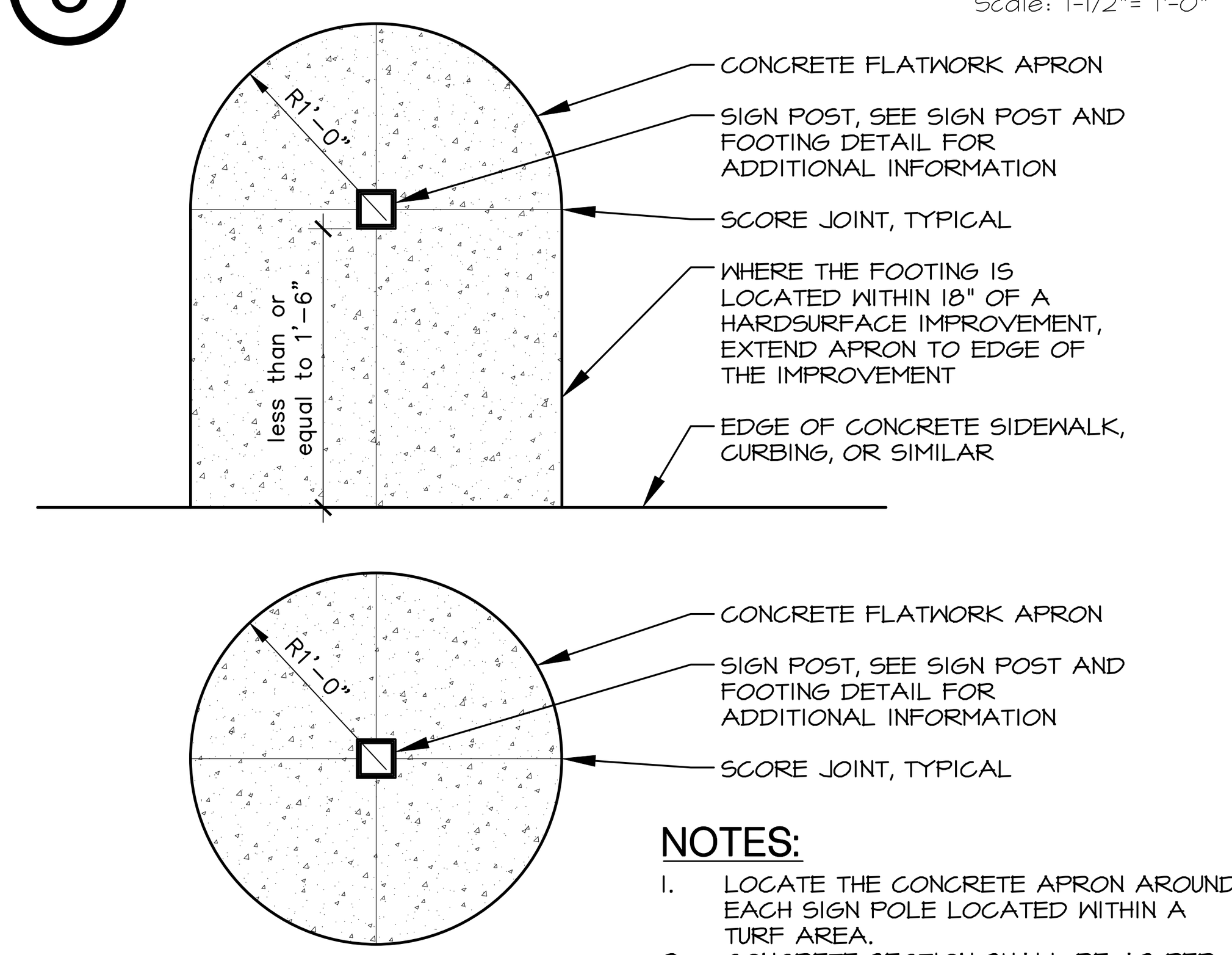


7 ACCESSIBLE PARKING SIGN
Scale: 1-1/2"= 1'-0"



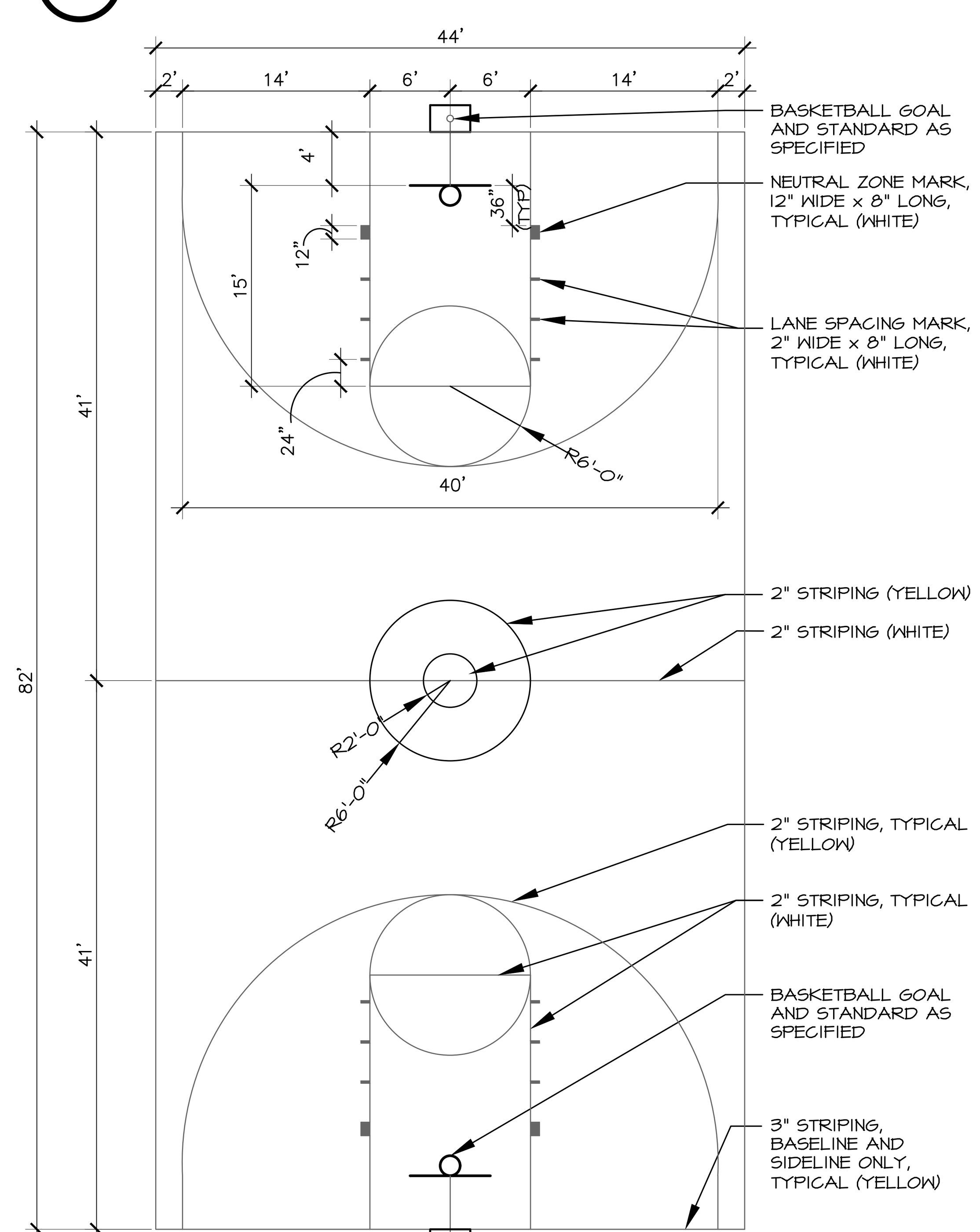
NOTE:
1. TOP OF POST TO BE CUT 1/2" BELOW TOP OF SIGN.

8 SIGN POST AND FOOTING
Scale: 1-1/2"= 1'-0"

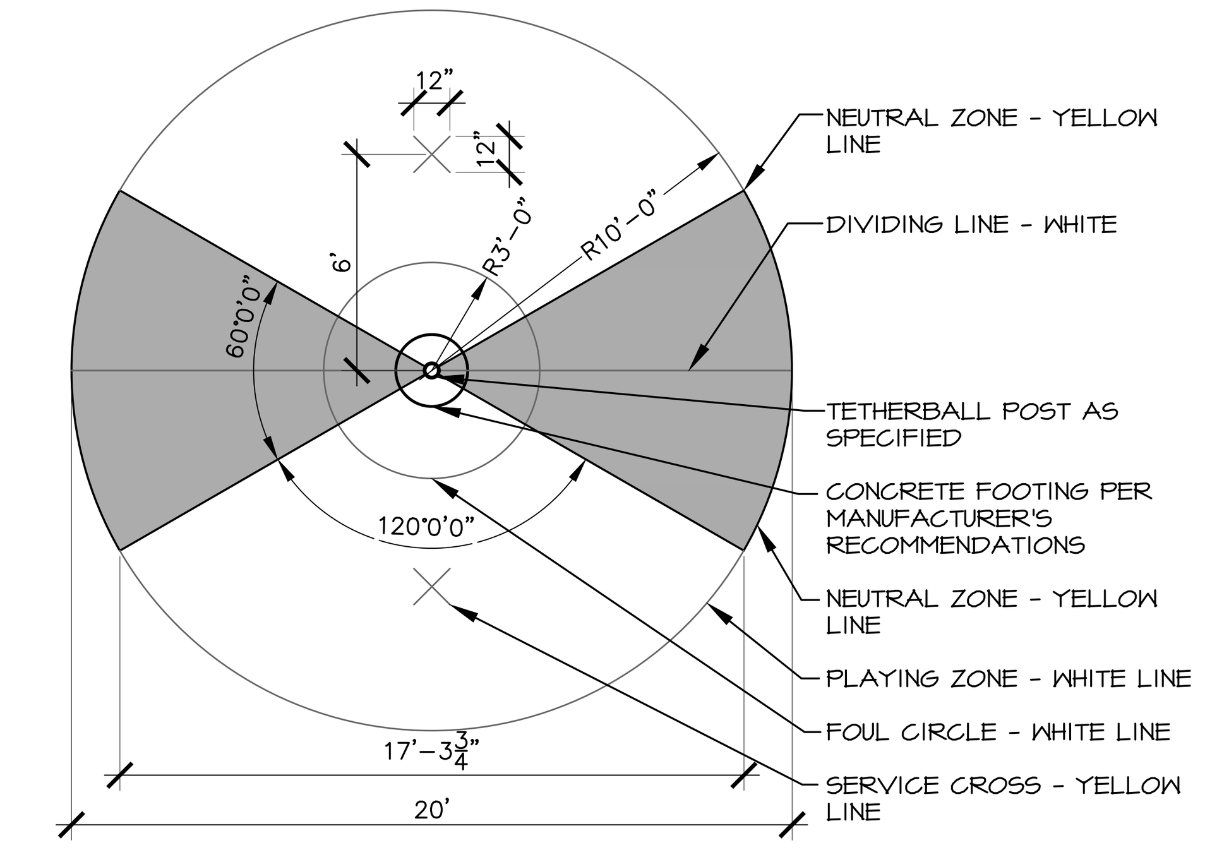


NOTES:
1. LOCATE THE CONCRETE APRON AROUND EACH SIGN POLE LOCATED WITHIN A TURF AREA.
2. CONCRETE SECTION SHALL BE AS PER SIGN POST AND FOOTING DETAIL.

9 SIGN POST APRON
Scale: 1"= 1'-0"

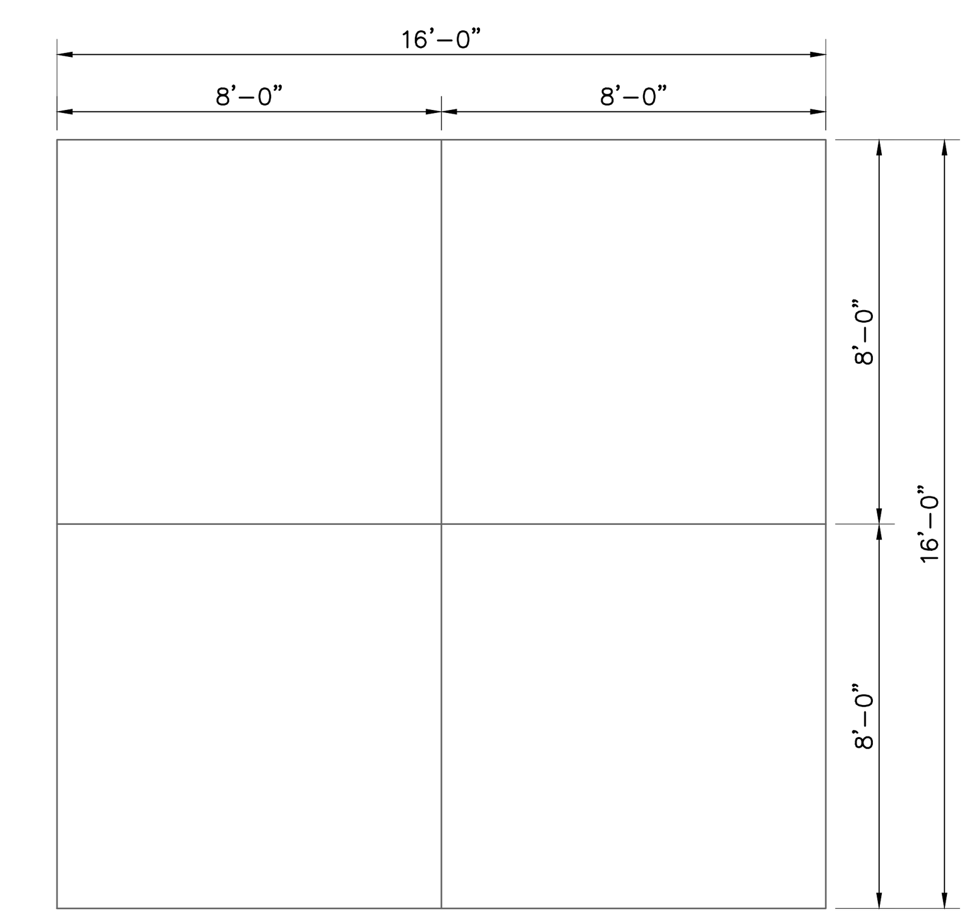


10 BASKETBALL LAYOUT
Scale: 1"= 10'-0"

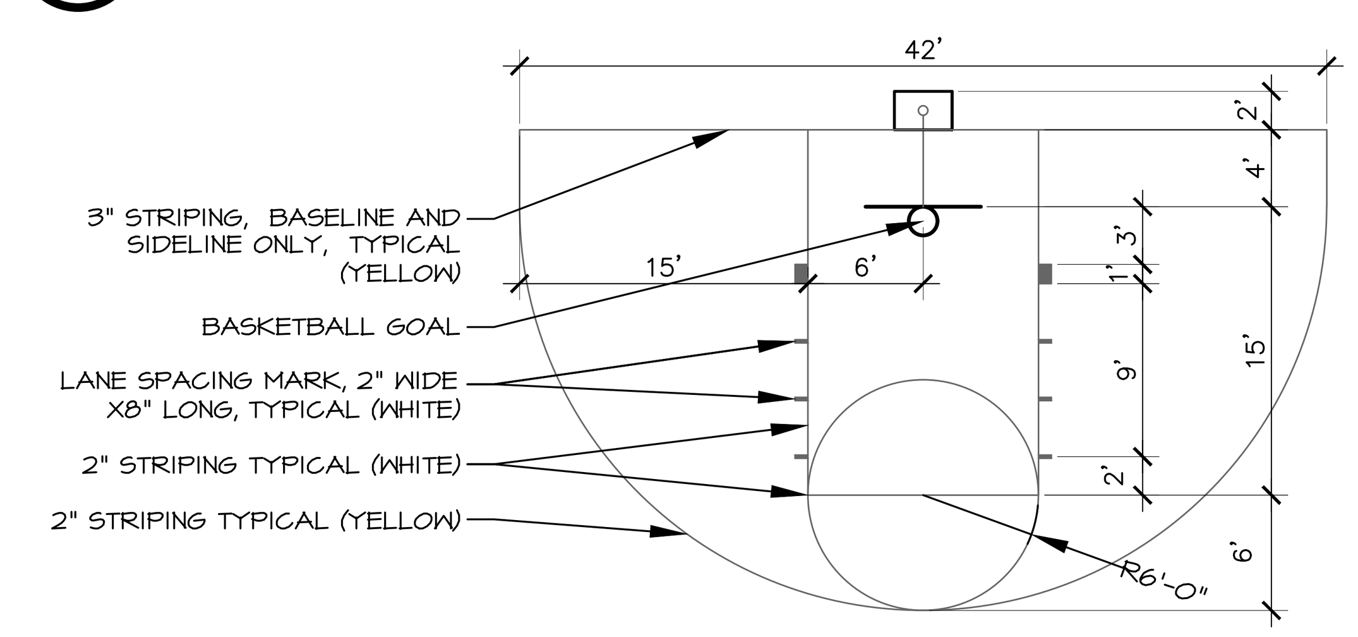


NOTES:
1. ALL COURT LINES TO BE 2" WIDE.
2. REFER TO SPECIFICATIONS FOR PAINT TYPE.

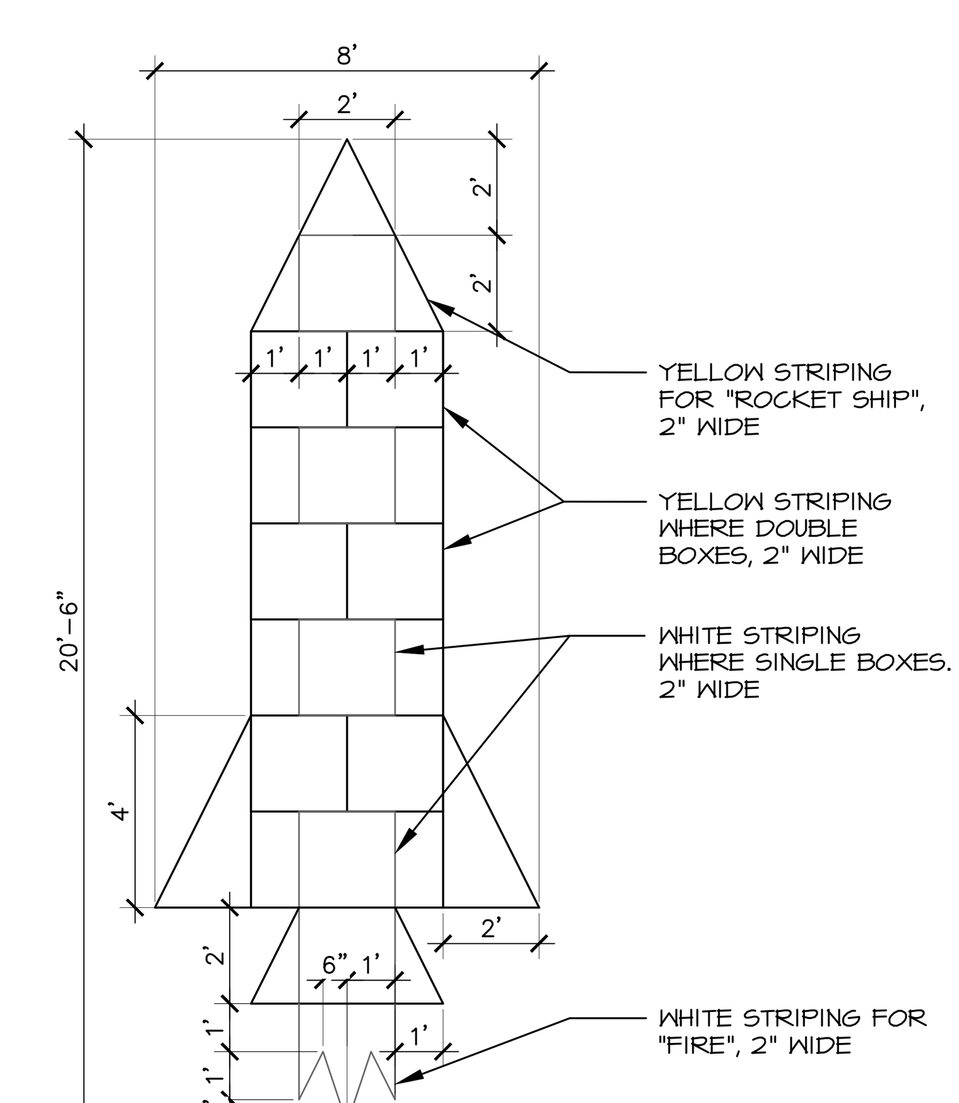
11 TETHERBALL STRIPPING
Scale: 3/16"= 1'-0"



12 FOUR SQUARE STRIPING
Scale: 1/4"= 1'-0"



13 BASKETBALL 1/2 COURT LAYOUT
Scale: 1"= 10'-0"



14 HOPSCOTCH STRIPING ROCKET SHIP
Scale: 1/4"= 1'-0"

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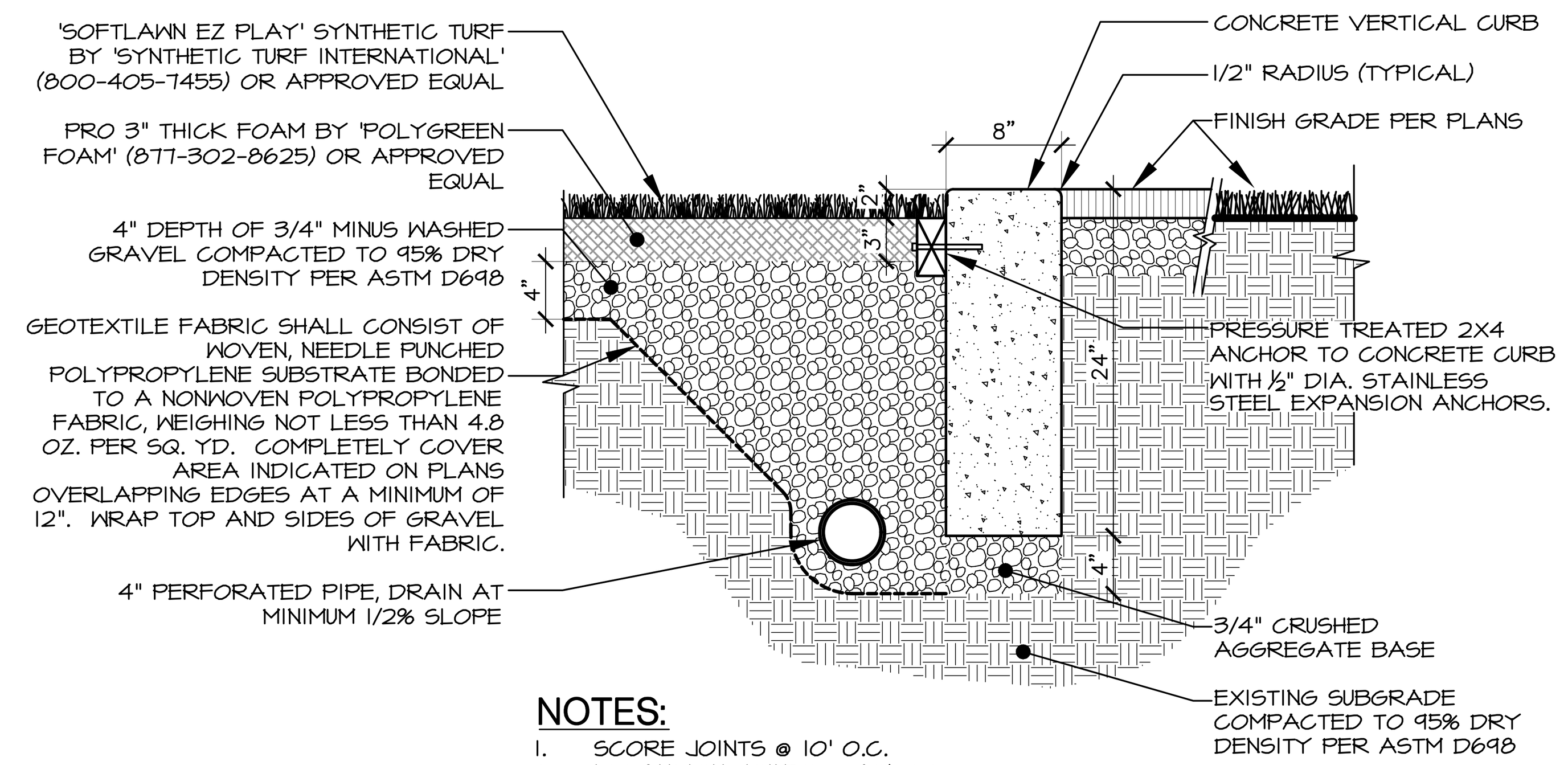
LICENSED LANDSCAPE ARCHITECT — STATE OF IDAHO — JON FRITZ BRECKON — LA-16836 — 2/11/2022

Revisions — Description — Date

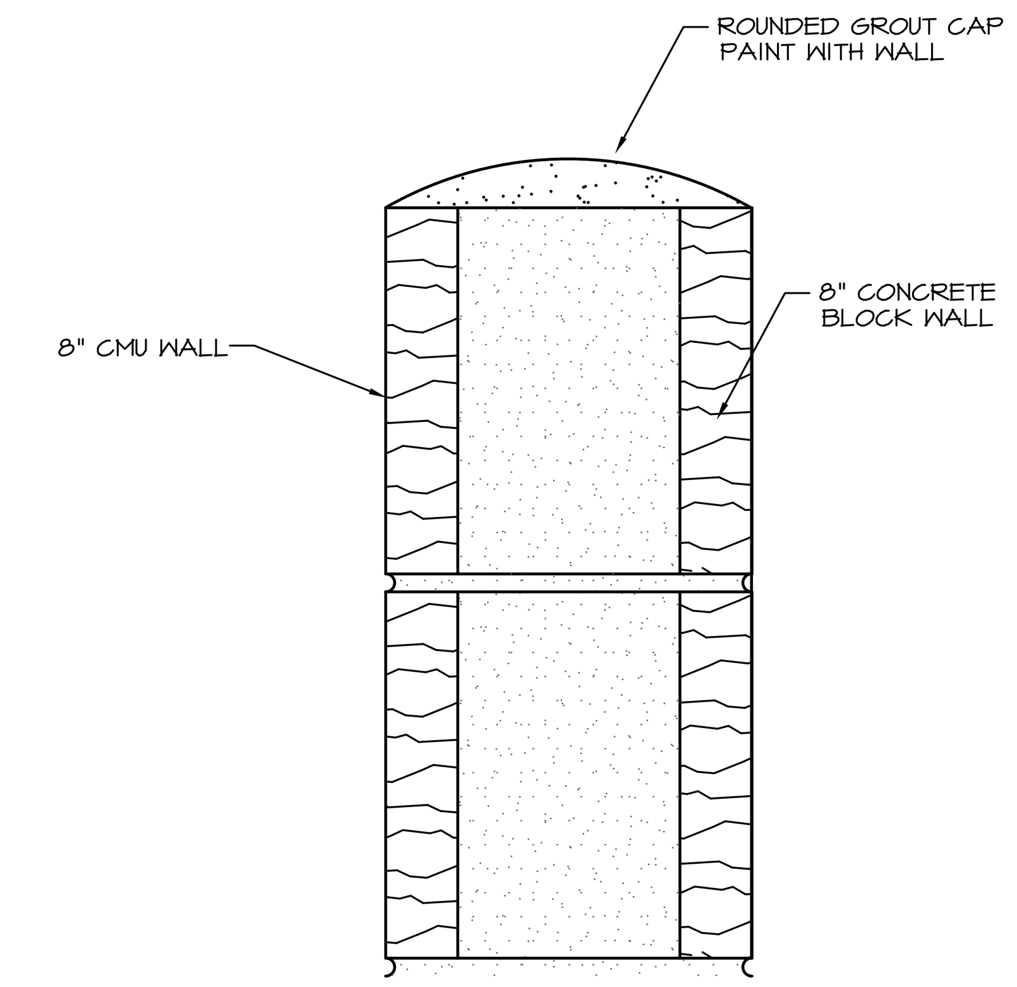
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB
BID SET
DRAWING NO.: SD4.7
MATERIALS, STRIPING, AND SIGNAGE DETAILS

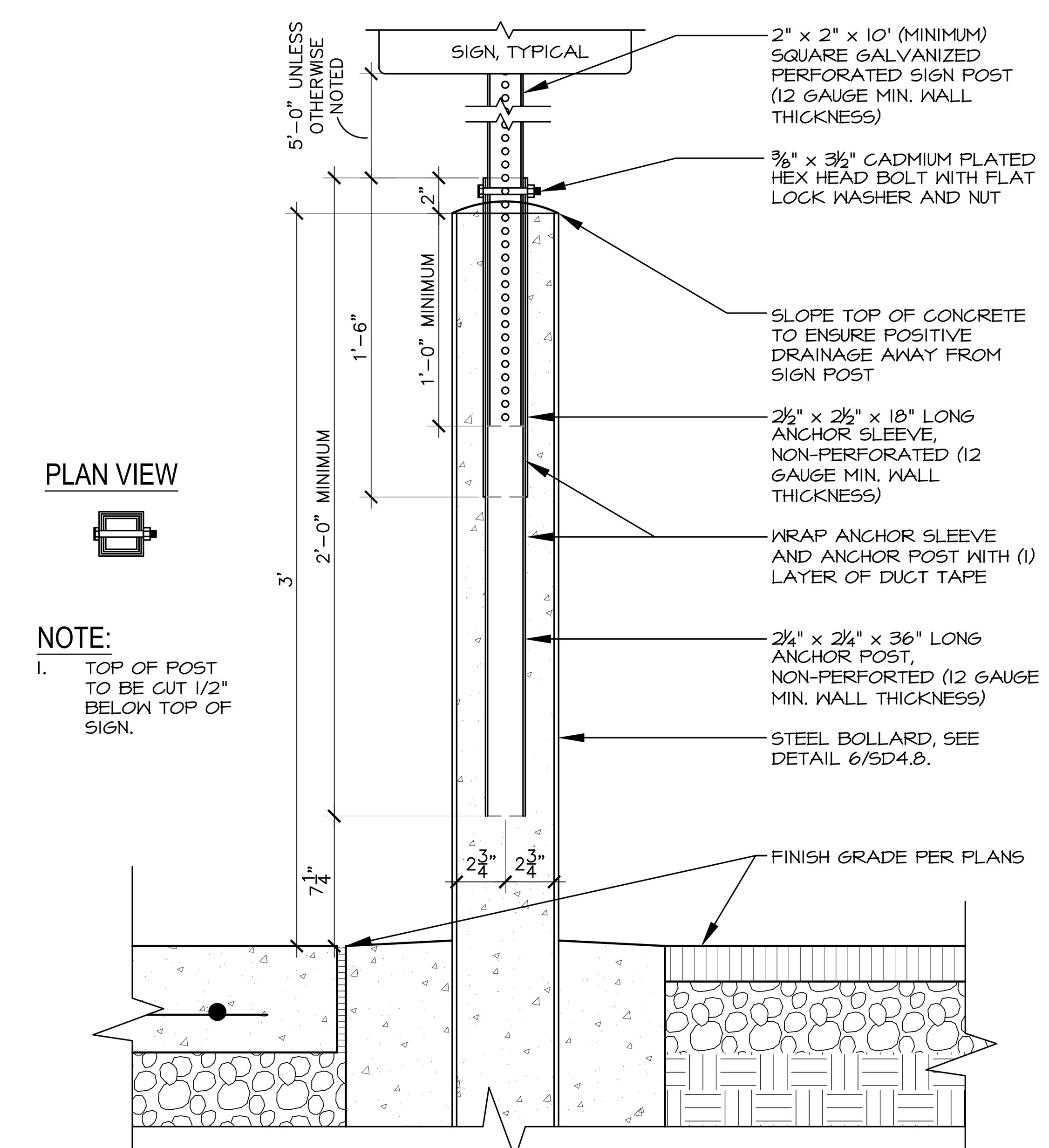


NOTES:
1. SCORE JOINTS @ 10' O.C.
2. EXPANSION JOINTS @ 40' O.C.
3. PROVIDE EXPANSION JOINTS AT THE INTERSECTION OF STRAIGHT CURB & RADII.
4. EXPANSION JOINTS SHALL BE PREFORMED JOINT FILLER OF 3/8" THICKNESS.
5. SCORE JOINTS SHALL BE MINIMUM 1/8" WIDE, 1-1/2" DEEP, AND ROUNDED CORNERS.

2 CONCRETE PLAYGROUND CURB AND SURFACING
Scale: 1"= 1'-0"

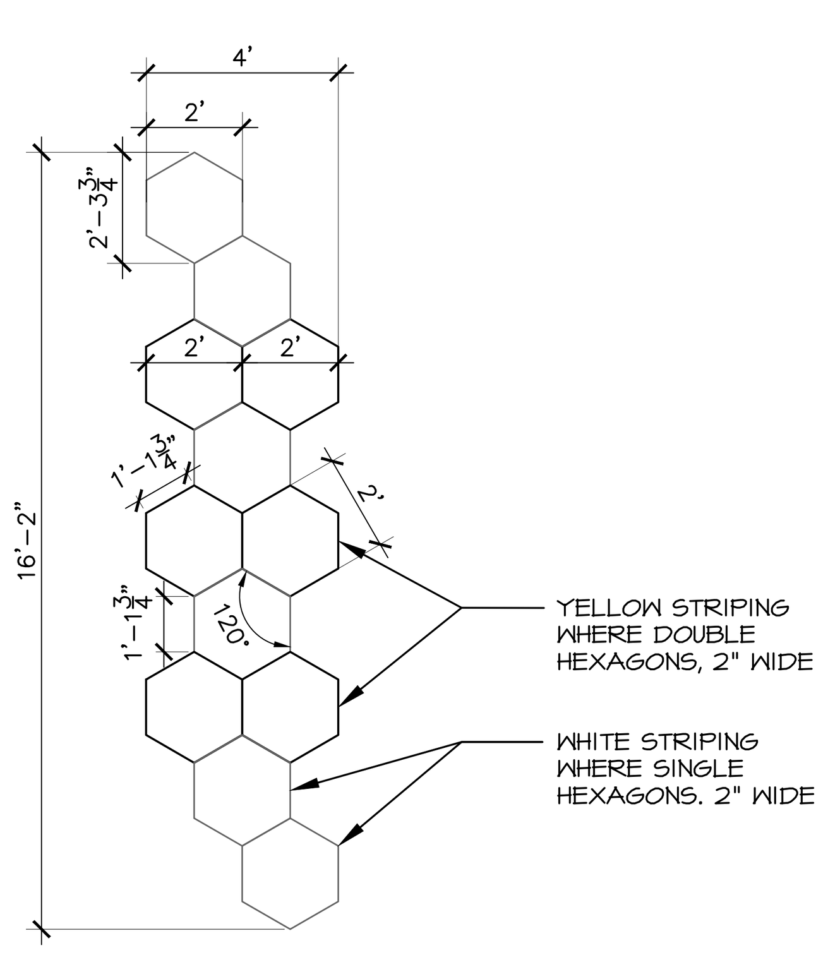


4 COPING CAP DETAIL
Scale: 3"= 1'-0"

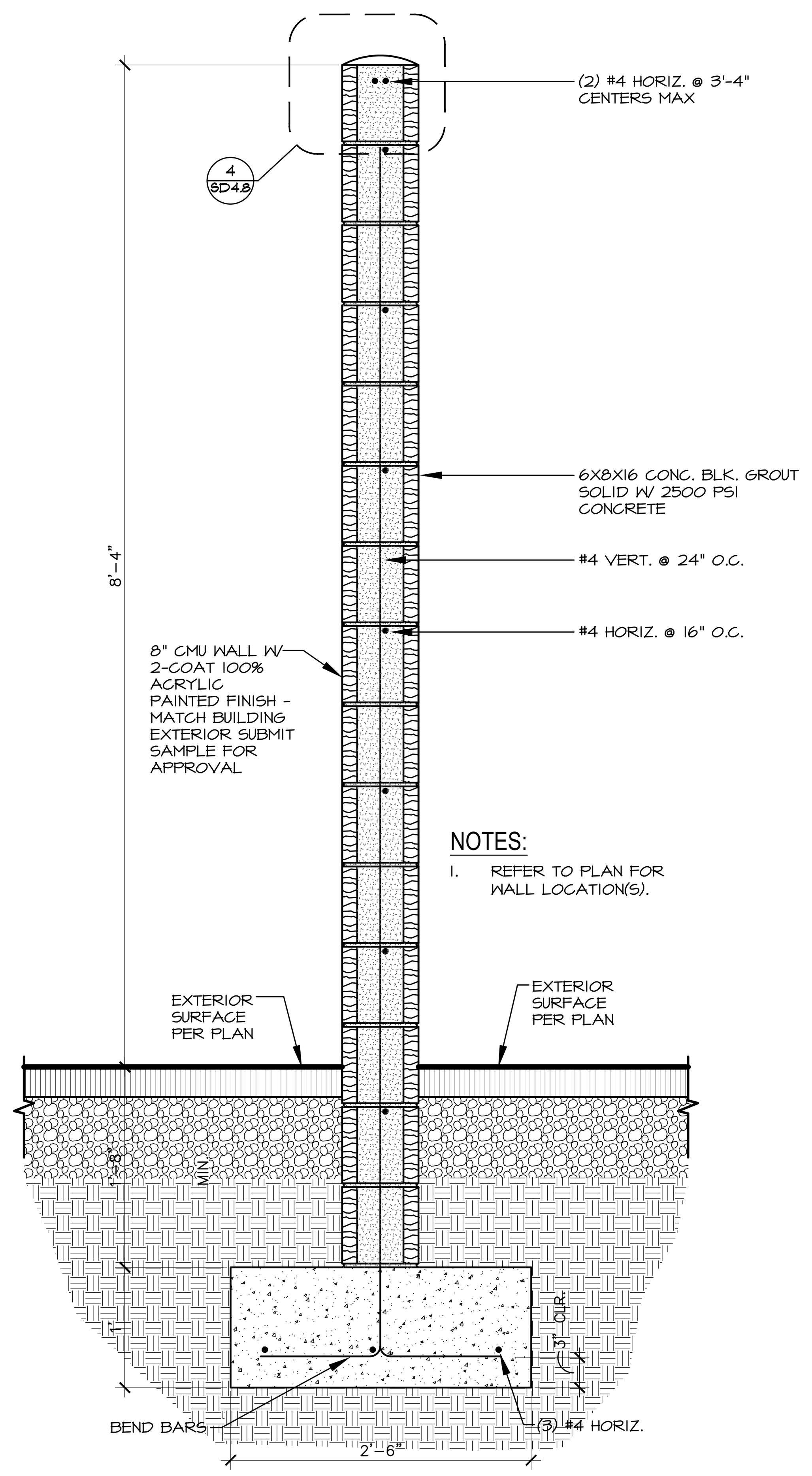


NOTE:
1. TOP OF POST TO BE CUT 1/2" BELOW TOP OF SIGN.

5 SIGN POST SET IN STEEL BOLLARD
Scale: 1-1/2"= 1'-0"

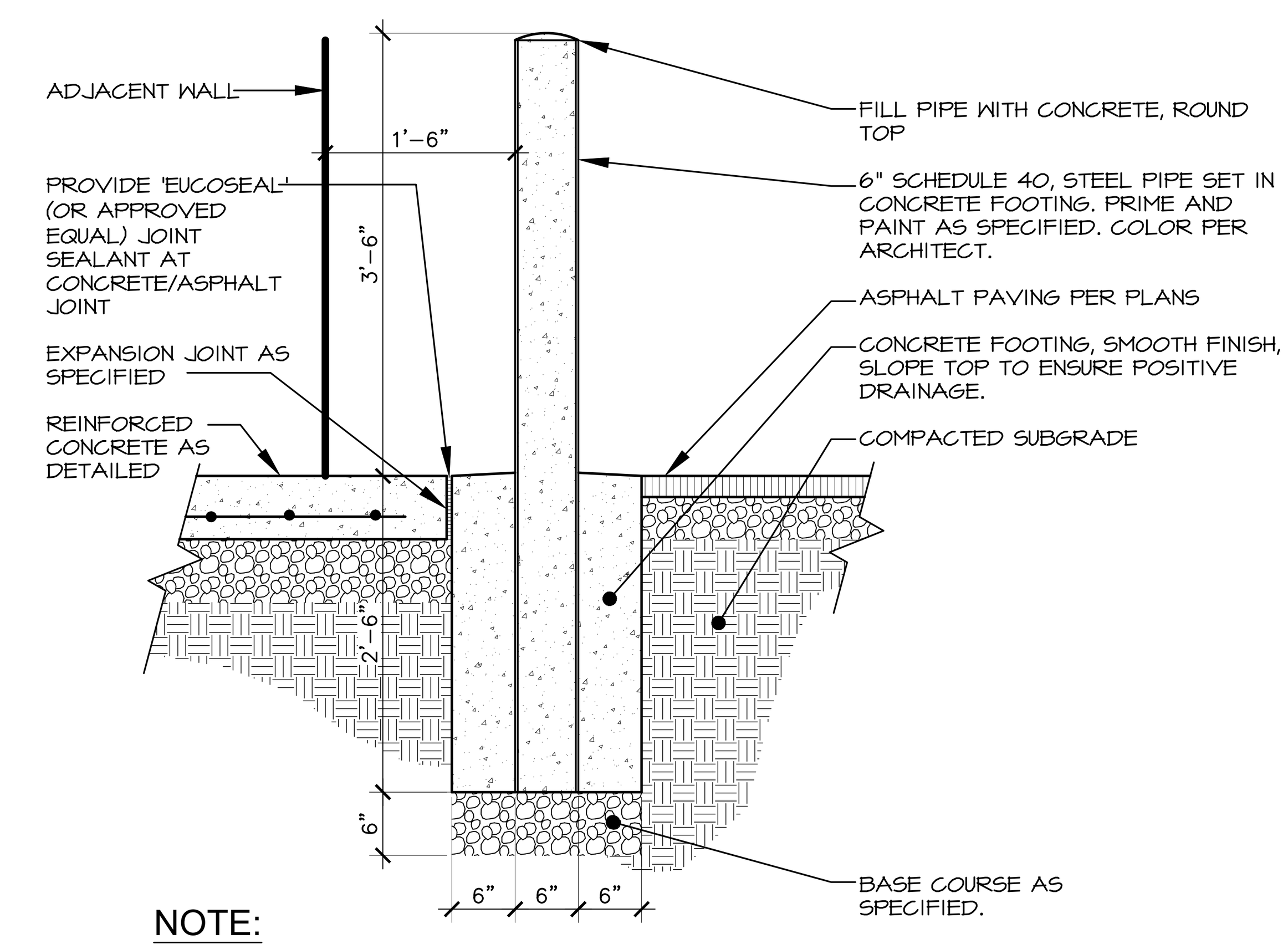


1 HOPSCOTCH STRIPING HEXAGONS
Scale: 1/4"= 1'-0"



NOTES:
1. REFER TO PLAN FOR WALL LOCATION(S).

3 BALL WALL
Scale: 1"= 1'-0"



NOTE:
1. REFER TO PLANS FOR EXACT BOLLARD LOCATIONS.

6 STEEL BOLLARD
Scale: 3/4"= 1'-0"

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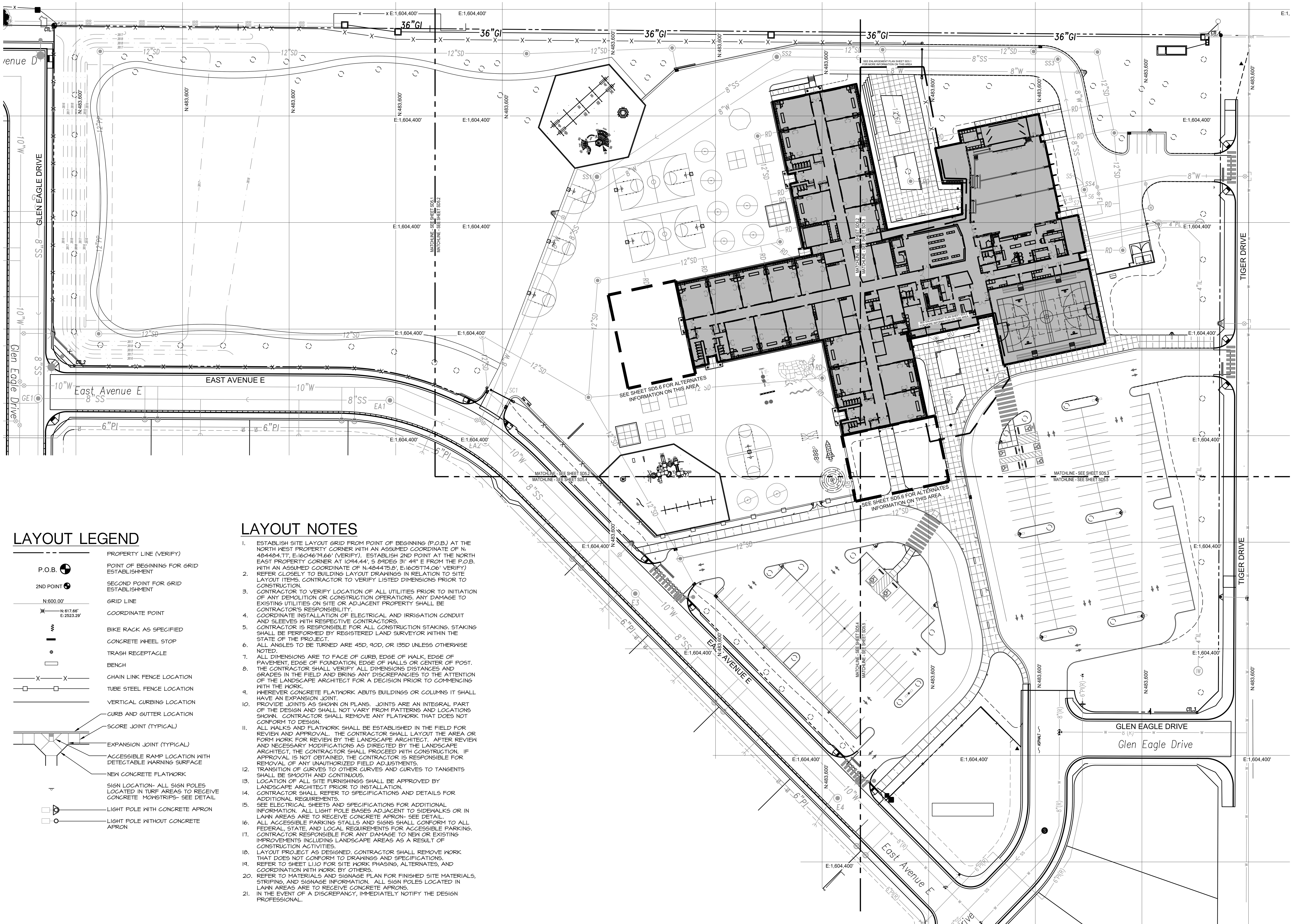
STATE OF IDAHO — JON FRITZ BRECKON — LA-16836 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions	
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB
BID SET
DRAWING NO.:
SD4.8
MATERIALS, STRIPING, AND SIGNAGE DETAILS



LAYOUT LEGEND

Symbol	Description
	PROPERTY LINE (VERIFY)
P.O.B.	POINT OF BEGINNING FOR GRID ESTABLISHMENT
2ND POINT	SECOND POINT FOR GRID ESTABLISHMENT
N:600.00'	GRID LINE
N: 617.66' E: 2523.29'	COORDINATE POINT
	BIKE RACK AS SPECIFIED
	CONCRETE WHEEL STOP
	TRASH RECEPTACLE
	BENCH
	CHAIN LINK FENCE LOCATION
	TUBE STEEL FENCE LOCATION
	VERTICAL CURBING LOCATION
	CURB AND GUTTER LOCATION
	SCORE JOINT (TYPICAL)
	EXPANSION JOINT (TYPICAL)
	ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
	NEW CONCRETE FLATWORK
	SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
	LIGHT POLE WITH CONCRETE APRON
	LIGHT POLE WITHOUT CONCRETE APRON

LAYOUT NOTES

1. ESTABLISH SITE LAYOUT GRID FROM POINT OF BEGINNING (P.O.B.) AT THE NORTH WEST PROPERTY CORNER WITH AN ASSUMED COORDINATE OF N: 484484.77', E:1604679.66' (VERIFY). ESTABLISH 2ND POINT AT THE NORTH EAST PROPERTY CORNER AT 1094.44', S 89DEG 31' 49" E FROM THE P.O.B. WITH AN ASSUMED COORDINATE OF N:484475.8', E:1605774.06' VERIFY)
2. REFER CLOSELY TO BUILDING LAYOUT DRAWINGS IN RELATION TO SITE LAYOUT ITEMS. CONTRACTOR TO VERIFY LISTED DIMENSIONS PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
4. COORDINATE INSTALLATION OF ELECTRICAL AND IRRIGATION CONDUIT AND SLEEVES WITH RESPECTIVE CONTRACTORS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING. STAKING SHALL BE PERFORMED BY REGISTERED LAND SURVEYOR WITHIN THE STATE OF THE PROJECT.
6. ALL ANGLES TO BE TURNED ARE 45D, 90D, OR 135D UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF WALK, EDGE OF PAVEMENT, EDGE OF FOUNDATION, EDGE OF WALLS OR CENTER OF POST.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS DISTANCES AND GRADES IN THE FIELD AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR A DECISION PRIOR TO COMMENCING WITH THE WORK.
9. WHEREVER CONCRETE FLATWORK ABUTS BUILDINGS OR COLUMNS IT SHALL HAVE AN EXPANSION JOINT.
10. PROVIDE JOINTS AS SHOWN ON PLANS. JOINTS ARE AN INTEGRAL PART OF THE DESIGN AND SHALL NOT VARY FROM PATTERNS AND LOCATIONS SHOWN. CONTRACTOR SHALL REMOVE ANY FLATWORK THAT DOES NOT CONFORM TO DESIGN.
11. ALL WALKS AND FLATWORK SHALL BE ESTABLISHED IN THE FIELD FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL LAYOUT THE AREA OR FORM WORK FOR REVIEW BY THE LANDSCAPE ARCHITECT. AFTER REVIEW AND NECESSARY MODIFICATIONS AS DIRECTED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION. IF APPROVAL IS NOT OBTAINED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ANY UNAUTHORIZED FIELD ADJUSTMENTS.
12. TRANSITION OF CURVES TO OTHER CURVES AND CURVES TO TANGENTS SHALL BE SMOOTH AND CONTINUOUS.
13. LOCATION OF ALL SITE FURNISHINGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
15. SEE ELECTRICAL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL LIGHT POLE BASES ADJACENT TO SIDEWALKS OR IN LAWN AREAS ARE TO RECEIVE CONCRETE APRON- SEE DETAIL.
16. ALL ACCESSIBLE PARKING STALLS AND SIGNS SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR ACCESSIBLE PARKING.
17. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING IMPROVEMENTS INCLUDING LANDSCAPE AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.
18. LAYOUT PROJECT AS DESIGNED. CONTRACTOR SHALL REMOVE WORK THAT DOES NOT CONFORM TO DRAWINGS AND SPECIFICATIONS.
19. REFER TO SHEET L1.10 FOR SITE WORK PHASING, ALTERNATES, AND COORDINATION WITH WORK BY OTHERS.
20. REFER TO MATERIALS AND SIGNAGE PLAN FOR FINISHED SITE MATERIALS, STRIPING, AND SIGNAGE INFORMATION. ALL SIGN POLES LOCATED IN LAWN AREAS ARE TO RECEIVE CONCRETE APRONS.
21. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL.

OVERALL LAYOUT PLAN

40 0 40 80 120

SCALE: 1"= 40'-0"

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6661 North Glenwood Street Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LA-16536 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions	
Description	Date

Jerome Elementary School

Jerome School District No. 261

N. 100 E. Jerome, Idaho

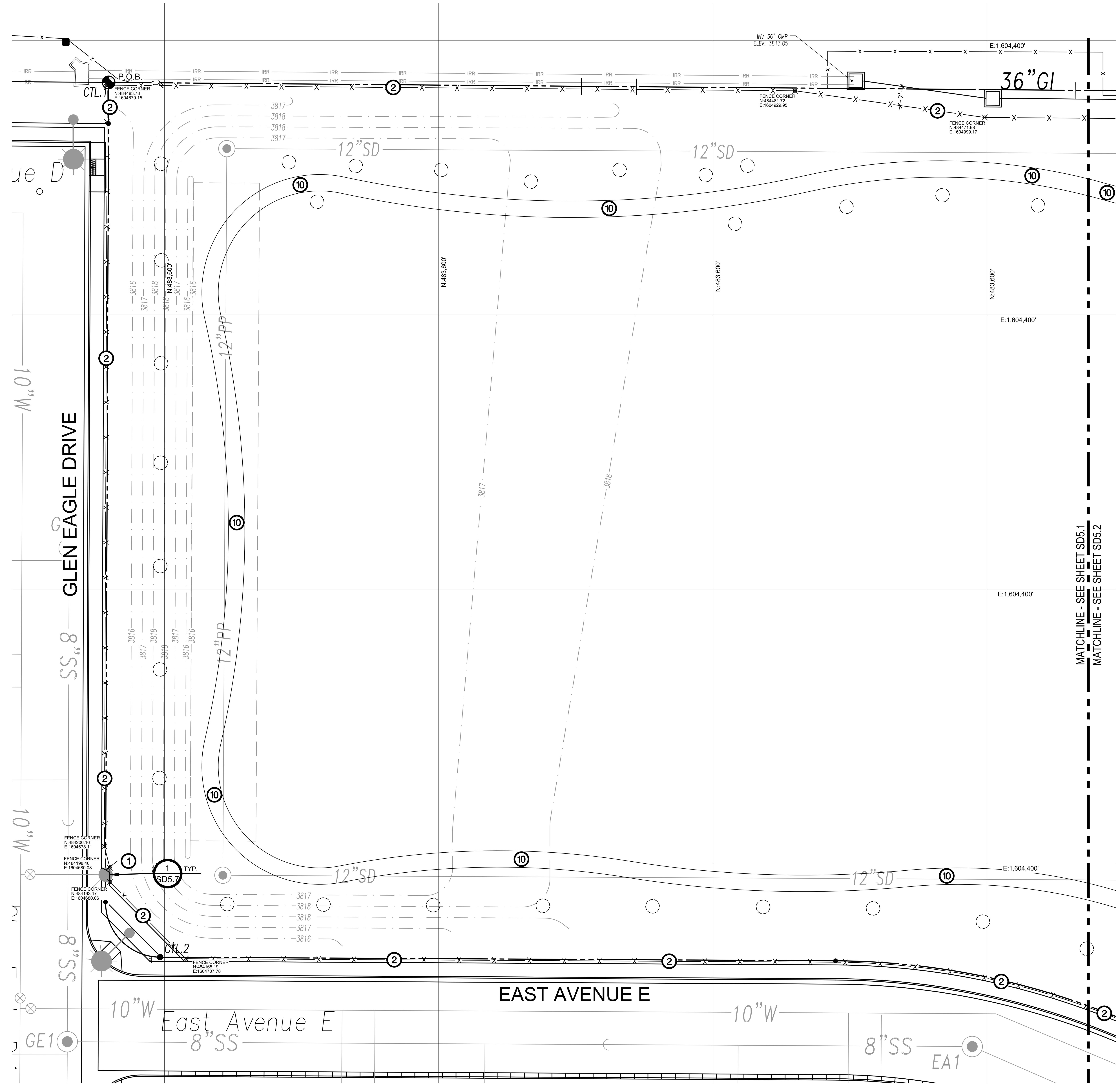
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD5.0

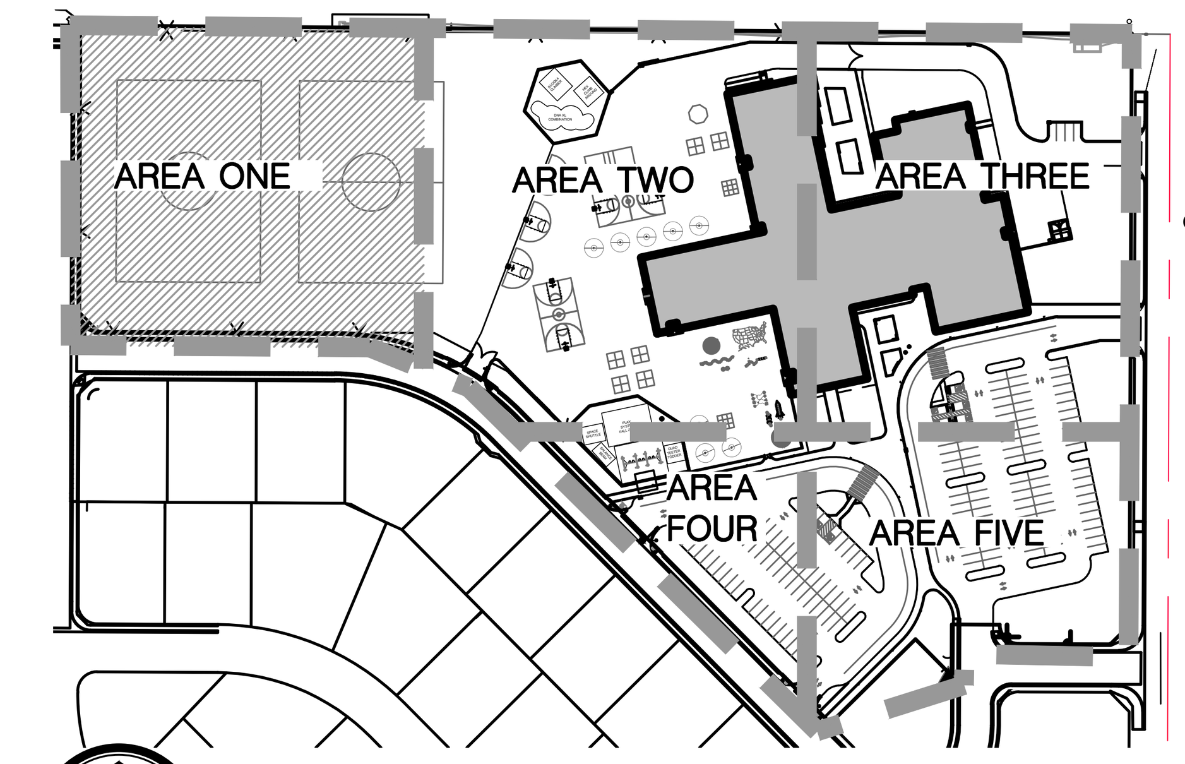
OVERALL LAYOUT PLAN



LAYOUT PLAN- AREA ONE

20 0 20 40 60

SCALE: 1"= 20'-0"



KEY MAP

200 0 200 400 600

SCALE: 1"= 200'-0"

LAYOUT LEGEND

- PROPERTY LINE (VERIFY)
- P.O.B. — POINT OF BEGINNING FOR GRID ESTABLISHMENT
- 2ND POINT — SECOND POINT FOR GRID ESTABLISHMENT
- N:600.00' — GRID LINE
- N: 617.66' E: 2523.29' — COORDINATE POINT
- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP
- TRASH RECEPTACLE
- BENCH
- CHAIN LINK FENCE LOCATION
- TUBE STEEL FENCE LOCATION
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON

CALLOUT LEGEND

1. FIRE HYDRANT APRON, SEE DETAIL 1/SD5.7.
2. 6'-0" HIGH CHAIN LINK FENCE, SEE DETAILS 1-8/SD5.8. LOCATE 1'-0" OFF OF BACK OF SIDEWALK OR PER PLAN.
3. 22'-0" WIDE DOUBLE SWING STEEL VEHICLE GATE, SEE DETAILS 9 AND 10/SD5.8.
4. 25'-0" WIDE DOUBLE SWING STEEL VEHICLE GATE, SEE DETAILS 9 AND 10/SD5.8.
5. 4'-0" HIGH TUBE STEEL FENCING, SEE DETAIL 4/SD5.7.
6. 4'-0" HIGH X 8'-4" WIDE DOUBLE SWING TUBE STEEL GATE, SEE DETAIL 5-8/SD5.7.
7. CONCRETE MOWSTRIP AT BUILDING, TYPICAL WHERE ASPHALT ABUTS THE BUILDINGS, SEE DETAIL 3/SD5.7.
8. LIGHTPOLE APRON, SEE DETAIL 2/SD5.7.
9. BIKE RACK AS SPECIFIED.
10. 6' WIDE ASPHALT WALKING PATHWAY, SEE DETAIL 9/SD5.7.
11. 17' WIDE X 5'-4" TALL DOUBLE SWING CHAIN LINK TRASH ENCLOSURE GATE WITH PRIVACY SLATS, SEE DETAILS 1-3/SD5.9. PRIVACY SLATS BY PRIVACY LINK OR APPROVED EQUAL. MODEL NO:ULTIMATE SLATS, TO BE FACTORY INSTALLED. WWW.PRIVACYLINK.COM PHONE: 800-574-1076. COLOR PER ARCHITECT.
12. REFER TO ARCHITECTURAL PLANS FOR TRASH ENCLOSURE STRUCTURE.
13. BENCH AS SPECIFIED
14. TRASH RECEPTACLE AS SPECIFIED
15. PLAYGROUND CURBING, SEE DETAIL 2/SD4.8.
16. BASKETBALL STANDARD AS SPECIFIED.

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STATE OF IDAHO — JON FRITZ BRECKON — LA-16536 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions	Description	Date
#		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

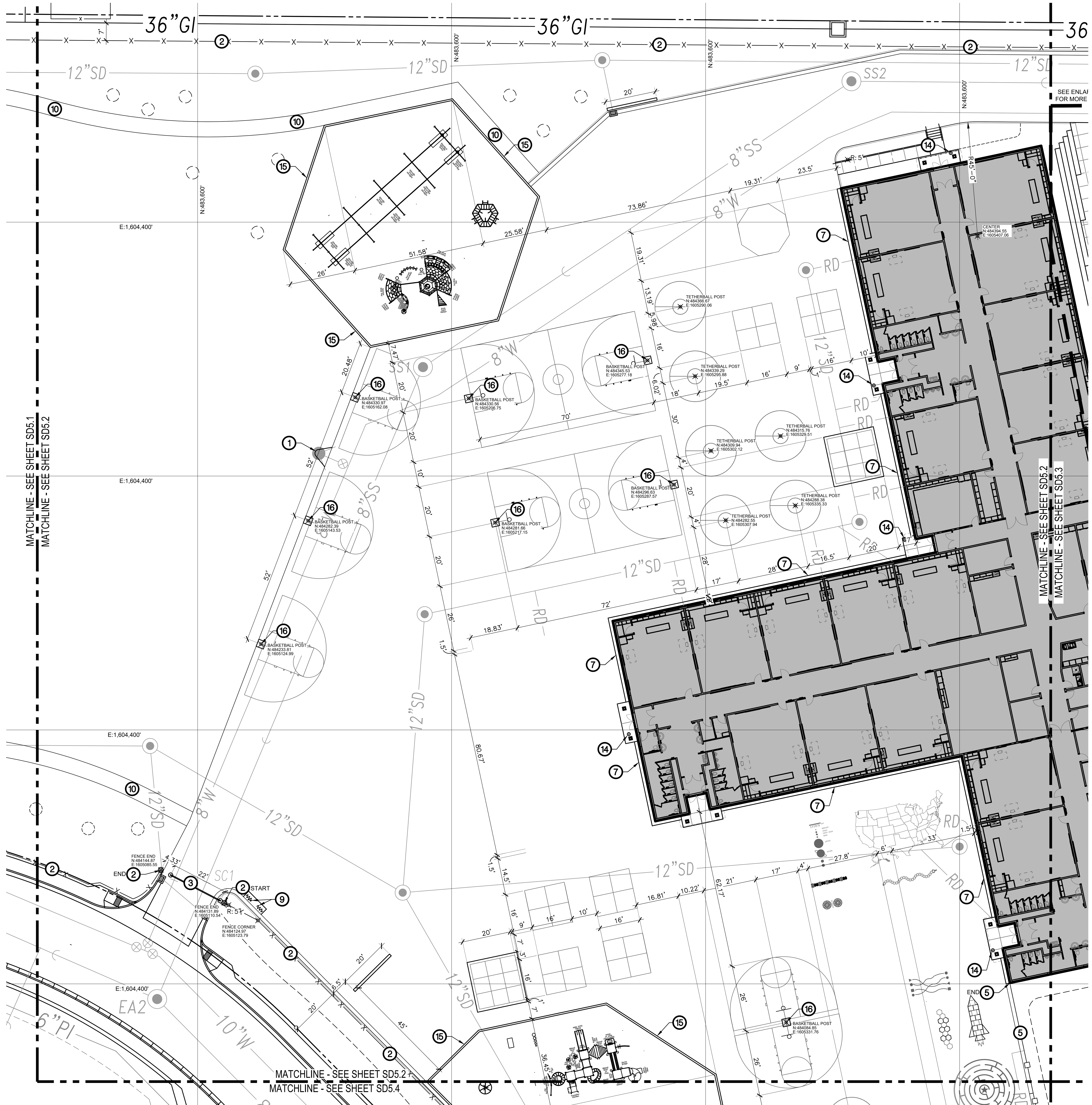
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

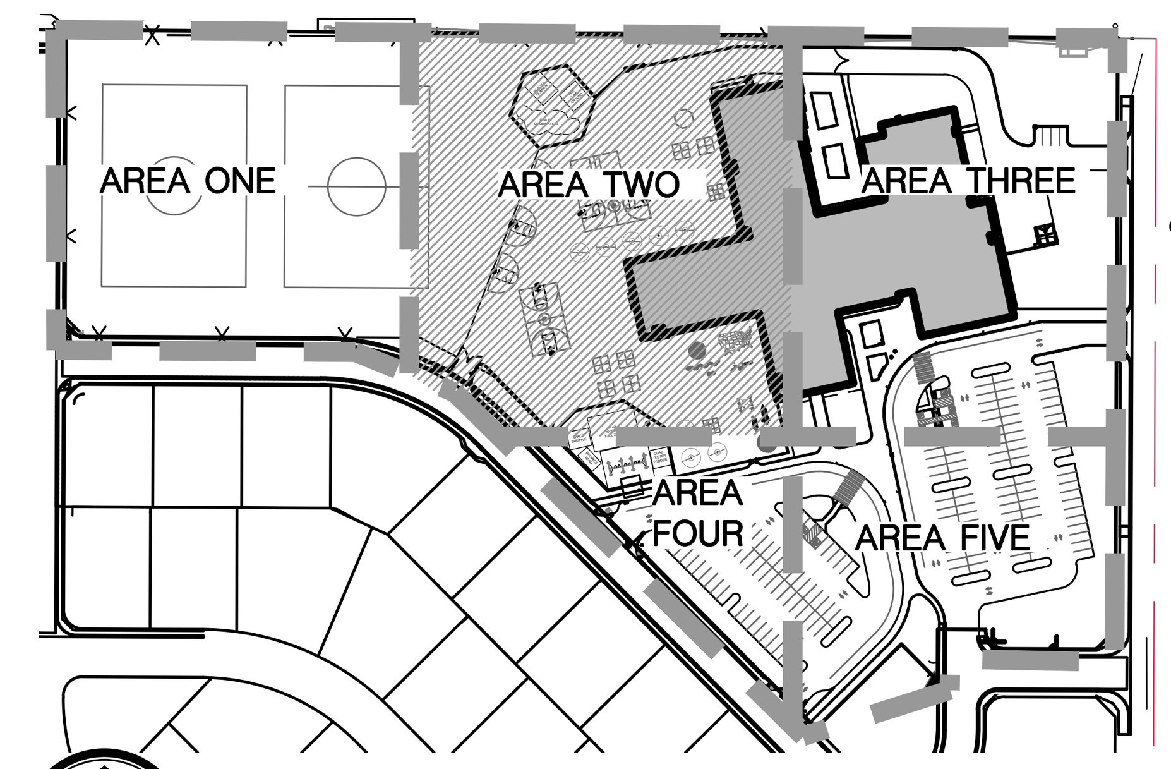
DRAWING NO.:
SD5.1

LAYOUT PLAN- AREA ONE



LAYOUT PLAN- AREA TWO

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

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LAYOUT LEGEND

- PROPERTY LINE (VERIFY)
- P.O.B. — POINT OF BEGINNING FOR GRID ESTABLISHMENT
- 2ND POINT — SECOND POINT FOR GRID ESTABLISHMENT
- N:600.00' — GRID LINE
- N: 617.66' E: 2523.29' — COORDINATE POINT
- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP
- TRASH RECEPTACLE
- BENCH
- CHAIN LINK FENCE LOCATION
- TUBE STEEL FENCE LOCATION
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON

CALLOUT LEGEND

1. FIRE HYDRANT APRON, SEE DETAIL 1/SD5.7.
2. 6'-0" HIGH CHAIN LINK FENCE, SEE DETAILS 1-8/SD5.8. LOCATE 1'-0" OFF OF BACK OF SIDEWALK OR PER PLAN.
3. 22'-0" WIDE DOUBLE SWING STEEL VEHICLE GATE, SEE DETAILS 9 AND 10/SD5.8.
4. 25'-0" WIDE DOUBLE SWING STEEL VEHICLE GATE, SEE DETAILS 9 AND 10/SD5.8.
5. 4'-0" HIGH TUBE STEEL FENCING, SEE DETAIL 4/SD5.7.
6. 4'-0" HIGH X 8'-4" WIDE DOUBLE SWING TUBE STEEL GATE, SEE DETAIL 5-8/SD5.7.
7. CONCRETE MOWSTRIP AT BUILDING, TYPICAL WHERE ASPHALT ABUTS THE BUILDINGS, SEE DETAIL 3/SD5.7.
8. LIGHTPOLE APRON, SEE DETAIL 2/SD5.7.
9. BIKE RACK AS SPECIFIED.
10. 6' WIDE ASPHALT WALKING PATHWAY, SEE DETAIL 9/SD5.7.
11. 17' WIDE X 5'-4" TALL DOUBLE SWING CHAIN LINK TRASH ENCLOSURE GATE WITH PRIVACY SLATS, SEE DETAILS 1-3/SD5.9. PRIVACY SLATS BY PRIVACY LINK OR APPROVED EQUAL. MODEL NO:ULTIMATE SLATS, TO BE FACTORY INSTALLED. WWW.PRIVACYLINK.COM PHONE: 800-574-1076. COLOR PER ARCHITECT.
12. REFER TO ARCHITECTURAL PLANS FOR TRASH ENCLOSURE STRUCTURE.
13. BENCH AS SPECIFIED
14. TRASH RECEPTACLE AS SPECIFIED
15. PLAYGROUND CURBING, SEE DETAIL 2/SD4.8.
16. BASKETBALL STANDARD AS SPECIFIED.

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208.336.3443

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6661 North Glenwood Street Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LA-16536 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions #	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

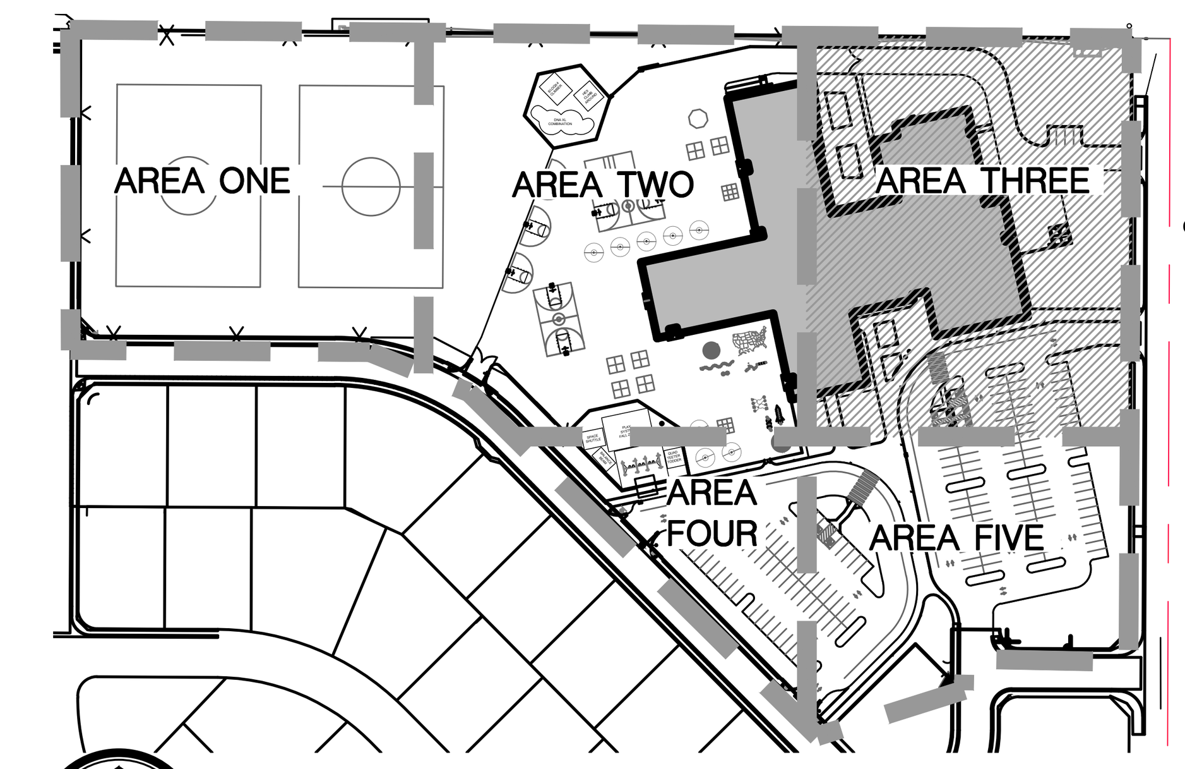
BID SET

DRAWING NO.: **SD5.2**

LAYOUT PLAN- AREA TWO

LAYOUT PLAN- AREA THREE

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

811 Know what's below. Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

LAYOUT LEGEND

- PROPERTY LINE (VERIFY)
- P.O.B. — POINT OF BEGINNING FOR GRID ESTABLISHMENT
- 2ND POINT — SECOND POINT FOR GRID ESTABLISHMENT
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- N: 617.66', E: 2523.29' — COORDINATE POINT
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- CONCRETE WHEEL STOP
- TRASH RECEPTACLE
- BENCH
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- TUBE STEEL FENCE LOCATION
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- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MOWSTRIPS- SEE DETAIL
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STATE OF IDAHO — JON FRITZ BRECKON — LA-16836 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions	
Description	Date

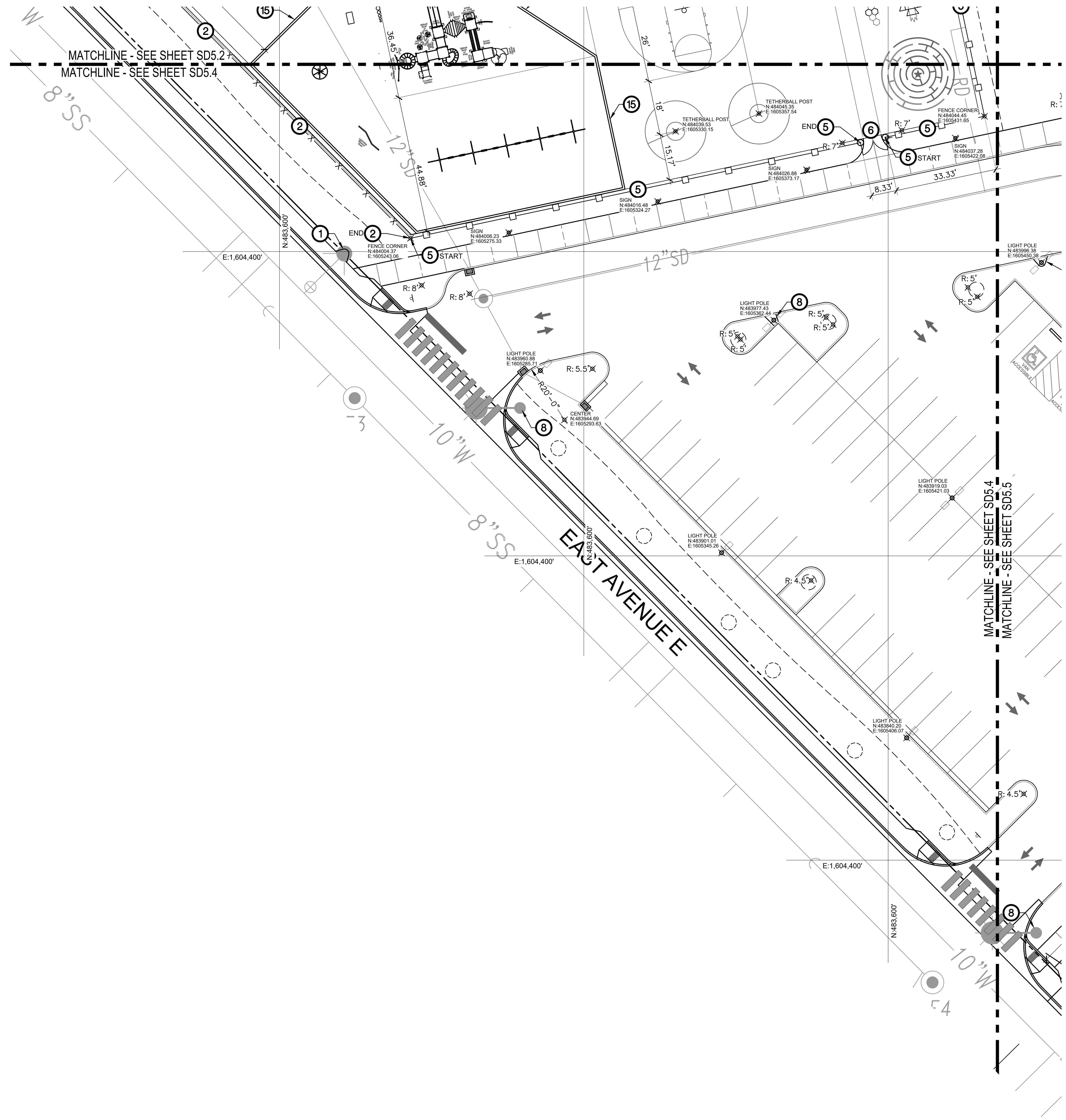
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB

BID SET

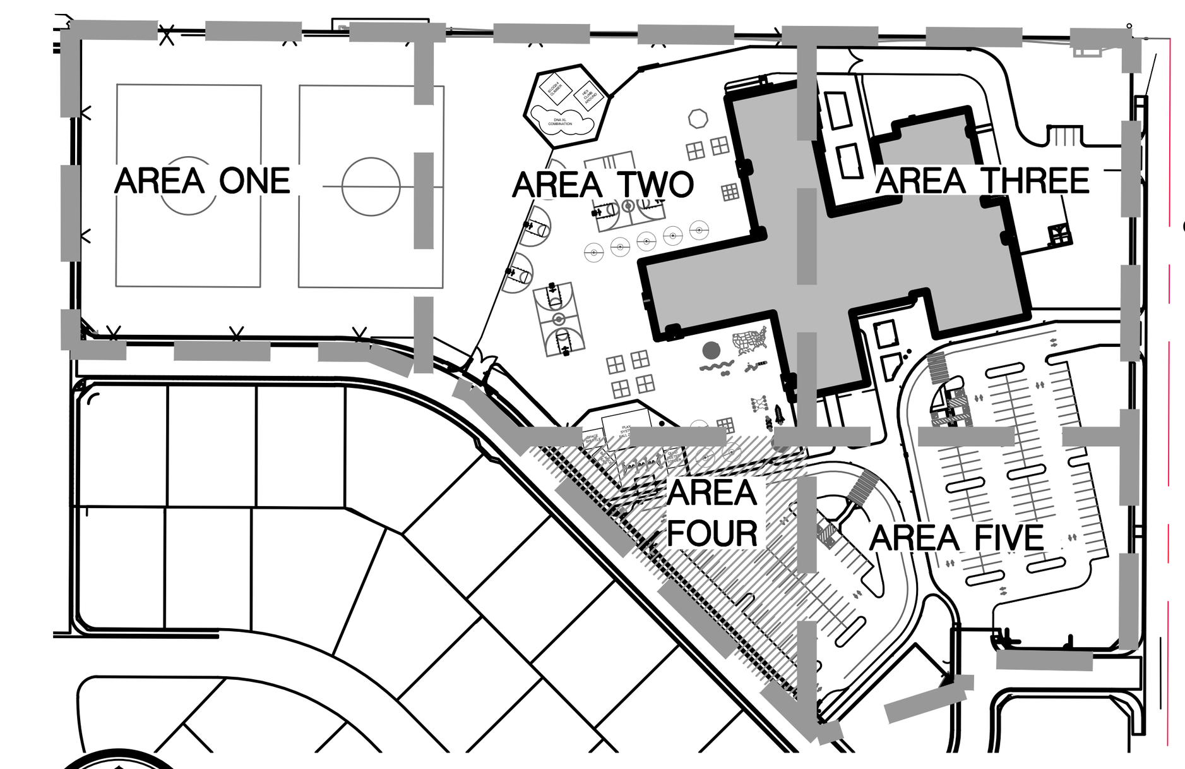
DRAWING NO.: SD5.3

LAYOUT PLAN- AREA THREE



LAYOUT PLAN- AREA FOUR

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

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- NEW CONCRETE FLATWORK
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STATE OF IDAHO — JON FRITZ BRECKON — LICENSED LANDSCAPE ARCHITECT — LA-16536 — 2/11/2022

Revisions	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

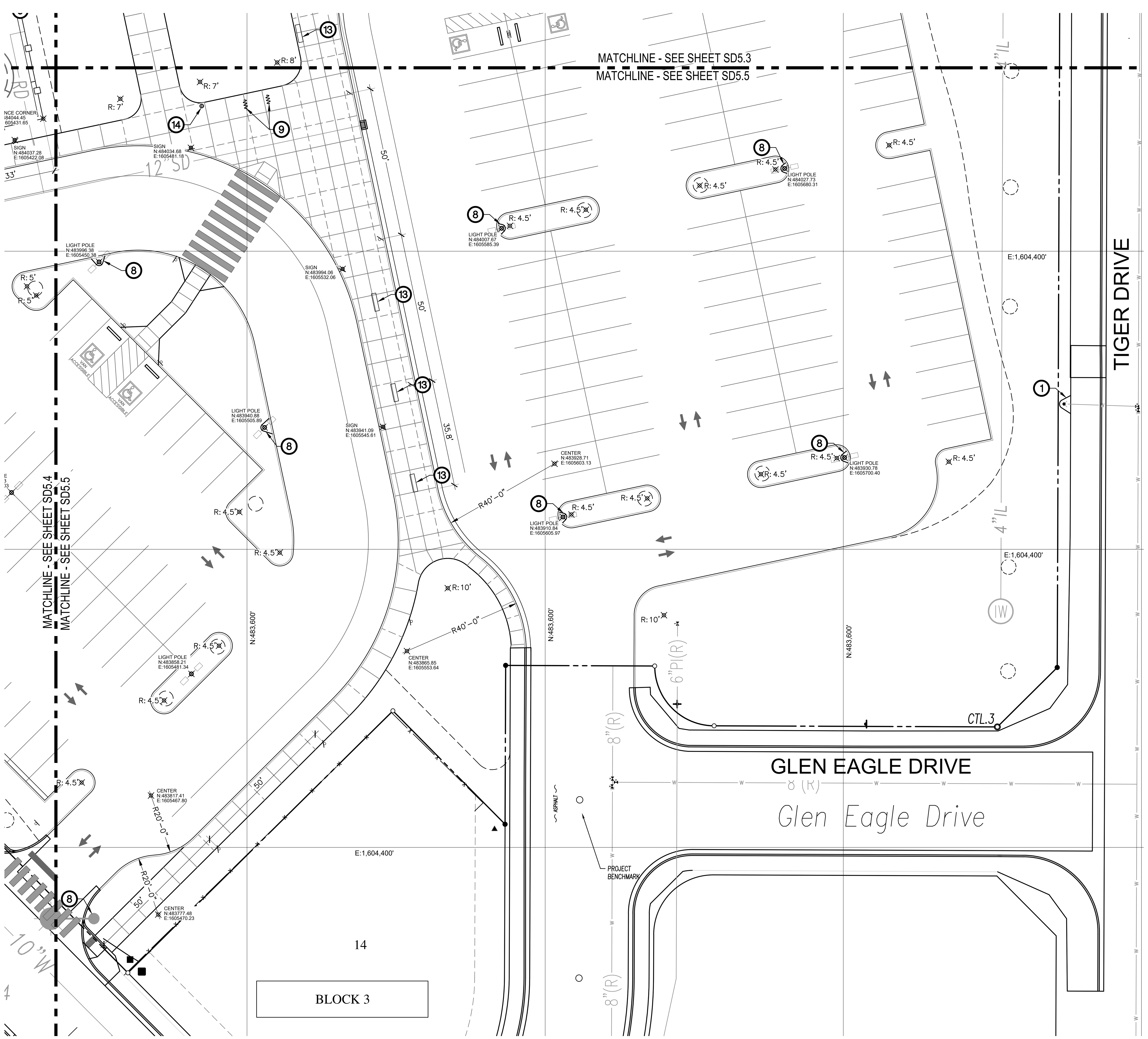
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.: SD5.4

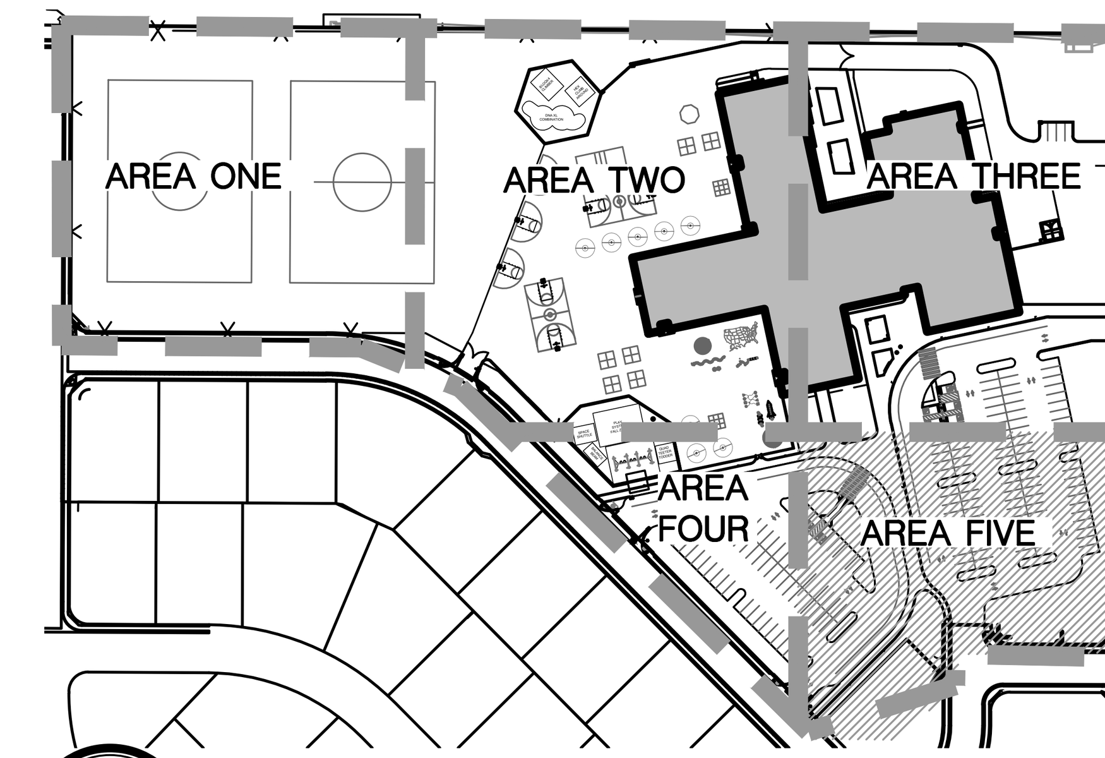
LAYOUT PLAN- AREA FOUR

S:_projects\2021\21114 jerome elementary\CAD\sheets\SD5.0 LAYOUT PLAN.dwg plotted by: cvalle on Fri, February 18 2022 at 10:01 AM



LAYOUT PLAN- AREA FIVE

SCALE: 1"= 20'-0"



KEY MAP

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STATE OF IDAHO — JON FRITZ BRECKON — LICENSED LANDSCAPE ARCHITECT — LA-16536 — 2/11/2022

Revisions	
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

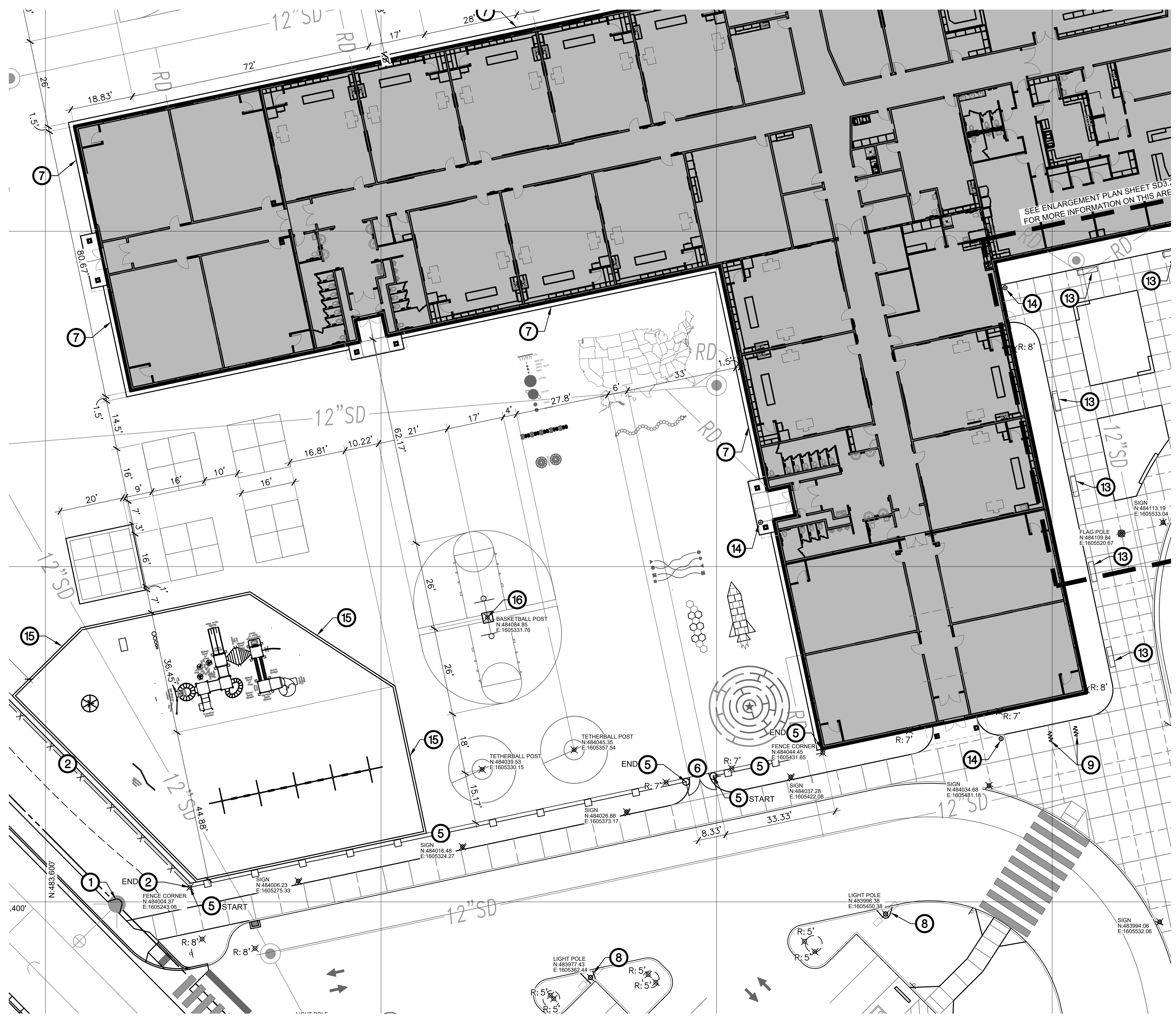
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD5.5

LAYOUT PLAN- AREA FIVE



LAYOUT PLAN- ADD ALTERNATES

20 0 20 40 60
SCALE: 1" = 20'-0"

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BRECKON landdesign

LA-16836
2/11/2022
LICENSED LANDSCAPE ARCHITECT, STATE OF IDAHO

Revisions
Description | Date

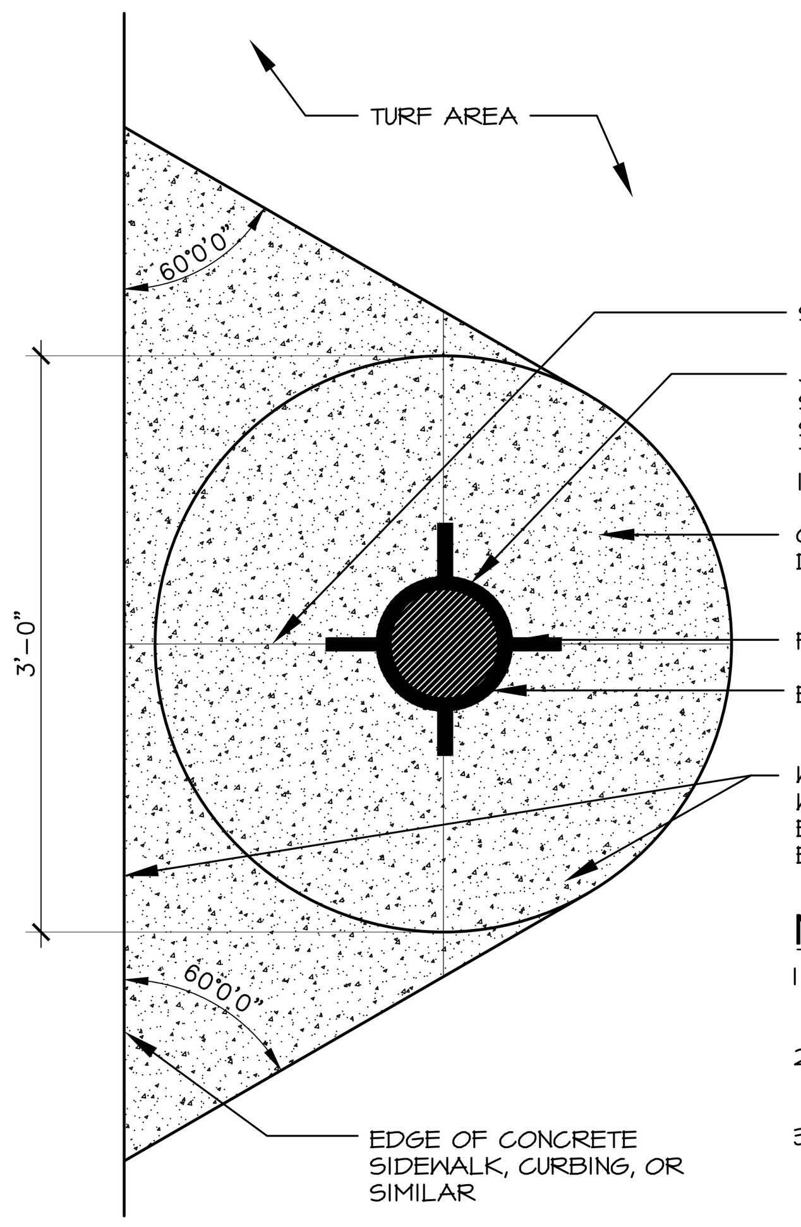
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD5.6
LAYOUT PLAN- ADD ALTERNATES

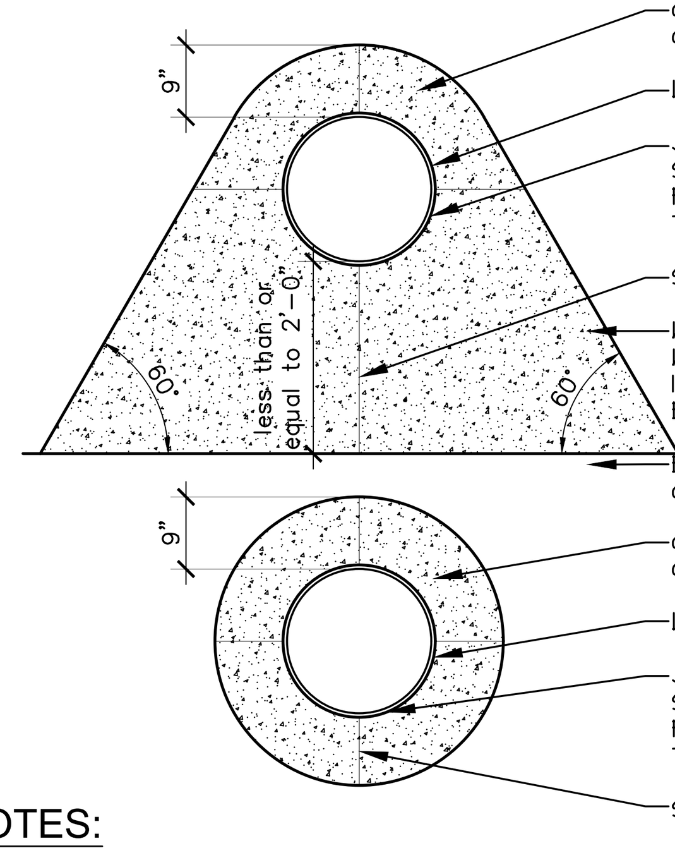


NOTE:

1. LOCATE THE CONCRETE APRON AROUND EACH FIRE HYDRANT LOCATED WITHIN A TURF AREA.
2. CONCRETE SECTION SHALL BE AS PER CONCRETE FLATWORK DETAIL.
3. REFER TO I.S.P.W.C. SD-404 FOR BOLT CLEARANCE REQUIREMENTS AND ADDITIONAL INFORMATION.

1 FIRE HYDRANT APRON

Scale: 1" = 1'-0"

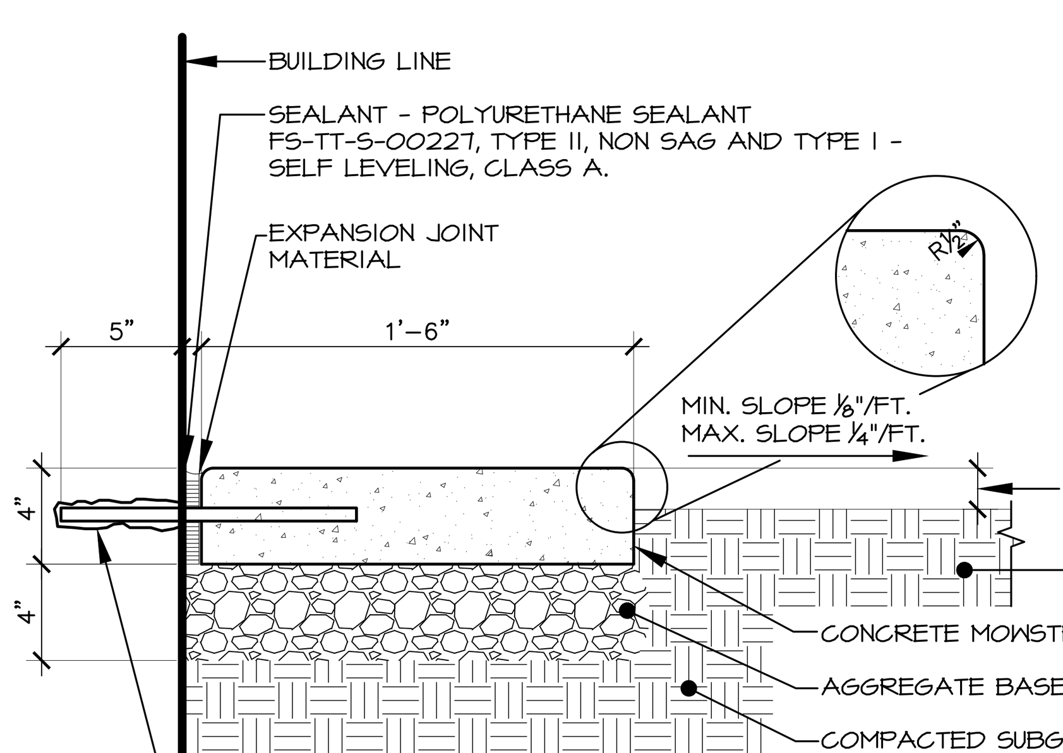


NOTES:

1. LOCATE THE CONCRETE APRON AROUND EACH LIGHT POST LOCATED WITHIN A TURF AREA.
2. CONCRETE SECTION SHALL BE AS PER CONCRETE FLATWORK DETAIL.

2 LIGHT POLE APRON

Scale: 1/2" = 1'-0"

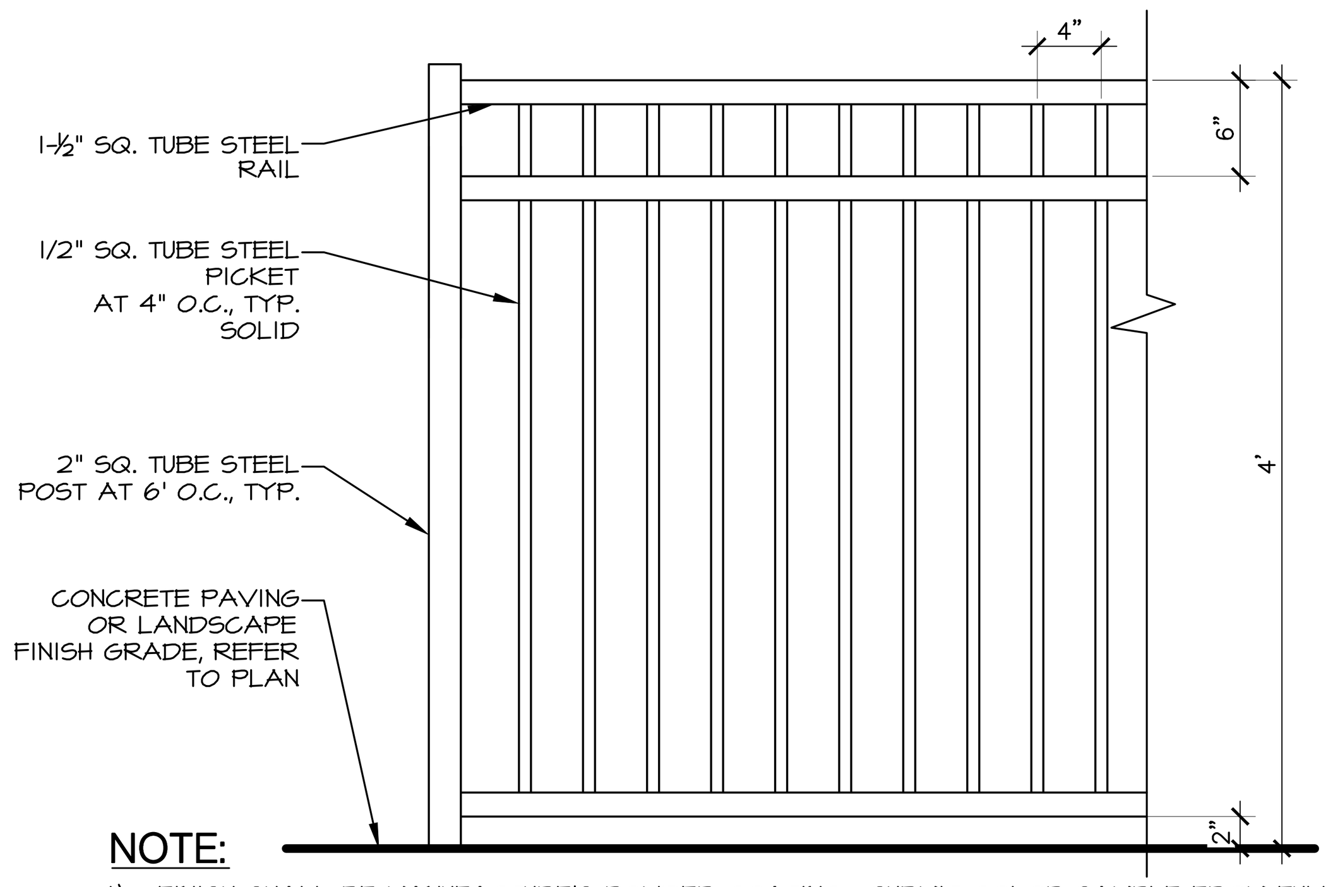


NOTES:

1. REFER TO LAYOUT PLAN FOR MOWSTRIP LOCATIONS.
2. SCORE JOINTS @ 5'-0" O.C.

3 CONCRETE MOWSTRIP

Scale: 1-1/2" = 1'-0"

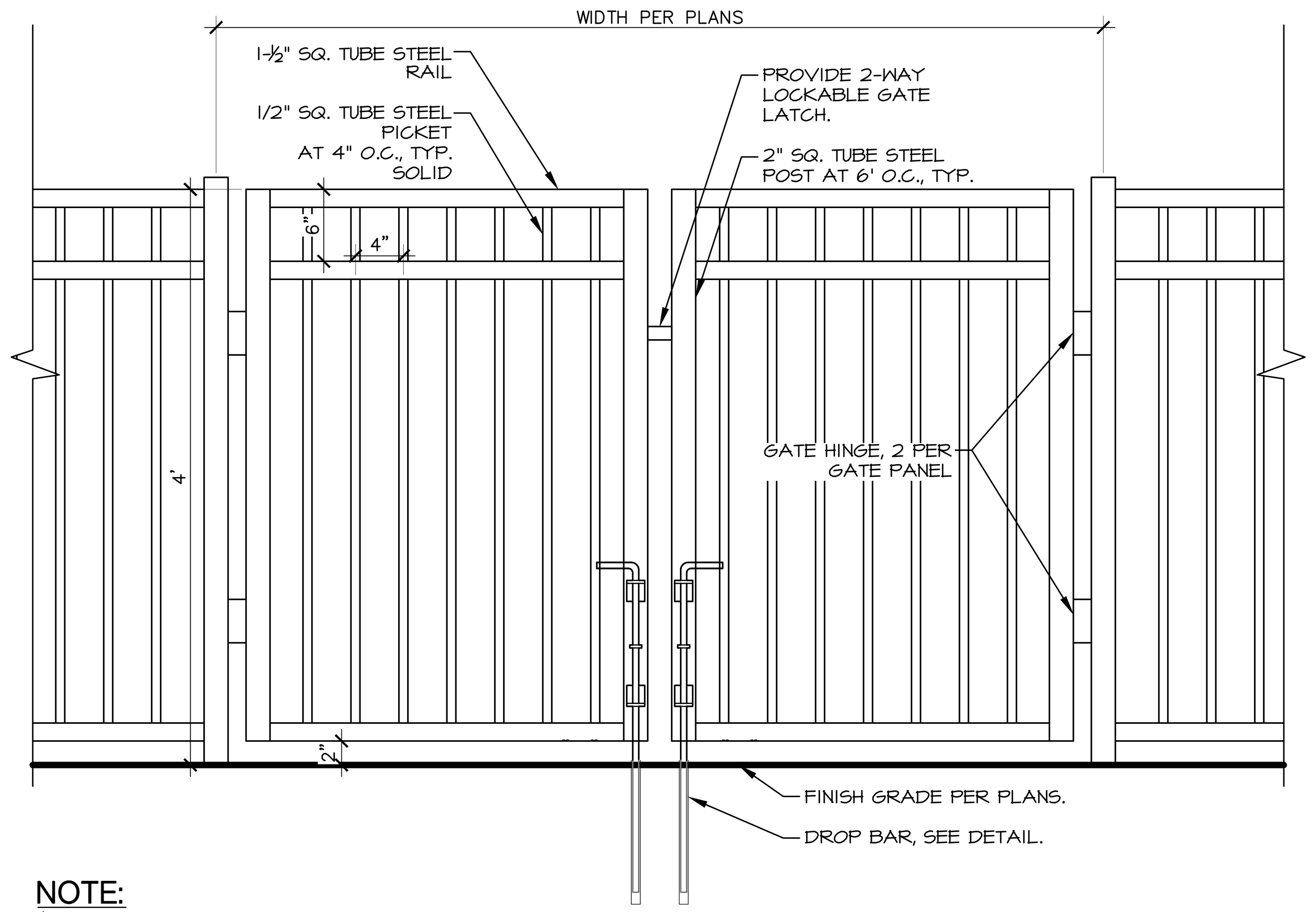


NOTE:

1) FINISH SHALL BE MANUFACTURE'S POWDER COATING. SUBMIT COLOR SAMPLE FROM FULL COLOR PALETTE FOR OWNER APPROVAL PRIOR TO ORDERING.
2) CONCRETE POST FOOTING SHALL BE 12" MINIMUM DIAMETER X 36" DEEP (4500 PSI).
3) ALL FIELD WELDS SHALL BE GROUND SMOOTH AND POWDER COATED TO MATCH ADJACENT SURFACES.
4) CONTRACTORS ARE RESPONSIBLE FOR SHOP DRAWINGS TO BE REVIEWED BY DESIGN PROFESSIONAL PRIOR TO INSTALLATION. TUBE STEEL GATES SHALL BE POWDER COATED - COLOR AS DIRECTED BY OWNER.

4 TUBE STEEL FENCE

Scale: 1"=1'-0"



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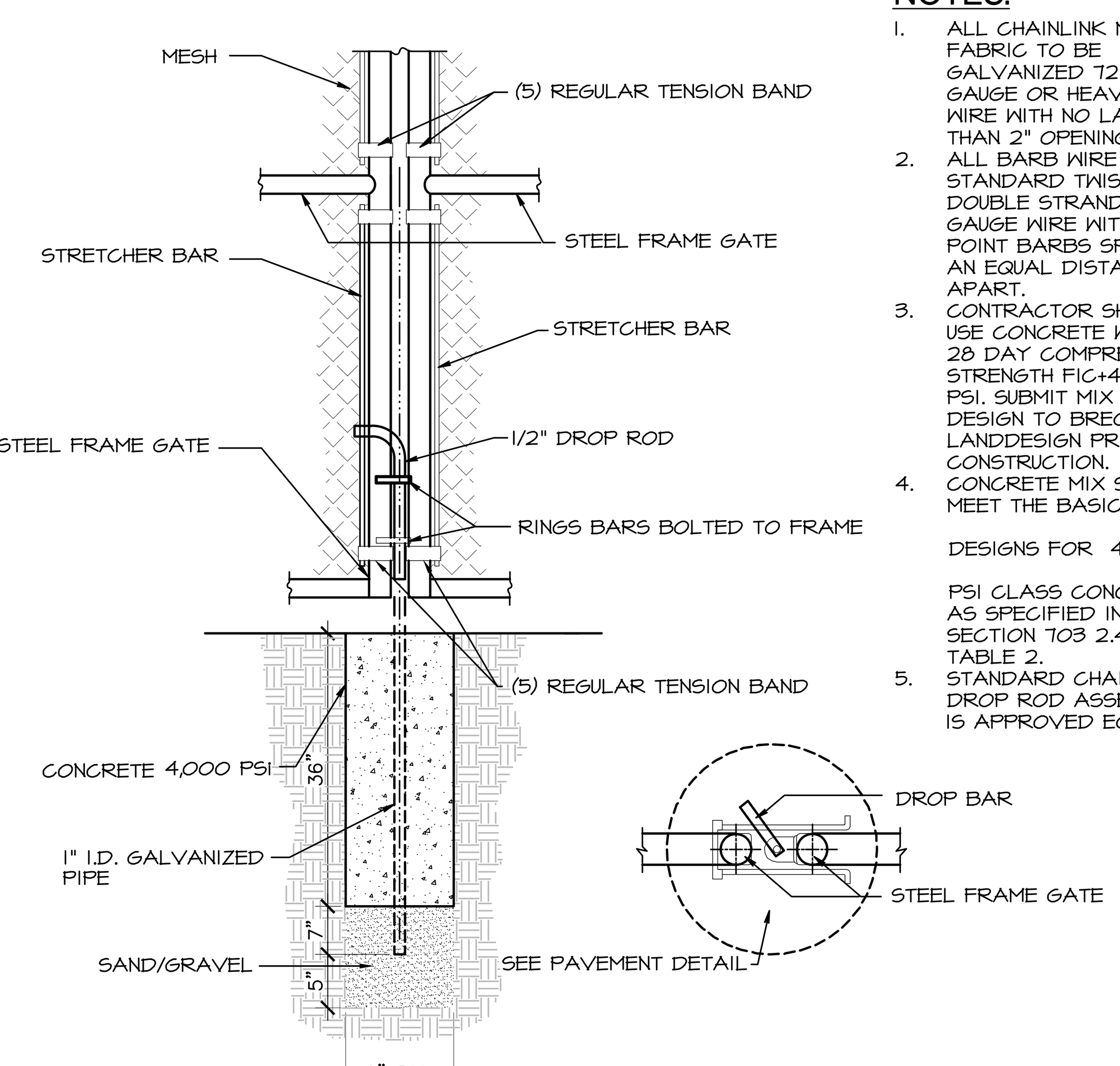
5 TUBE STEEL GATE

Scale: 1"=1'-0"



NOTES:

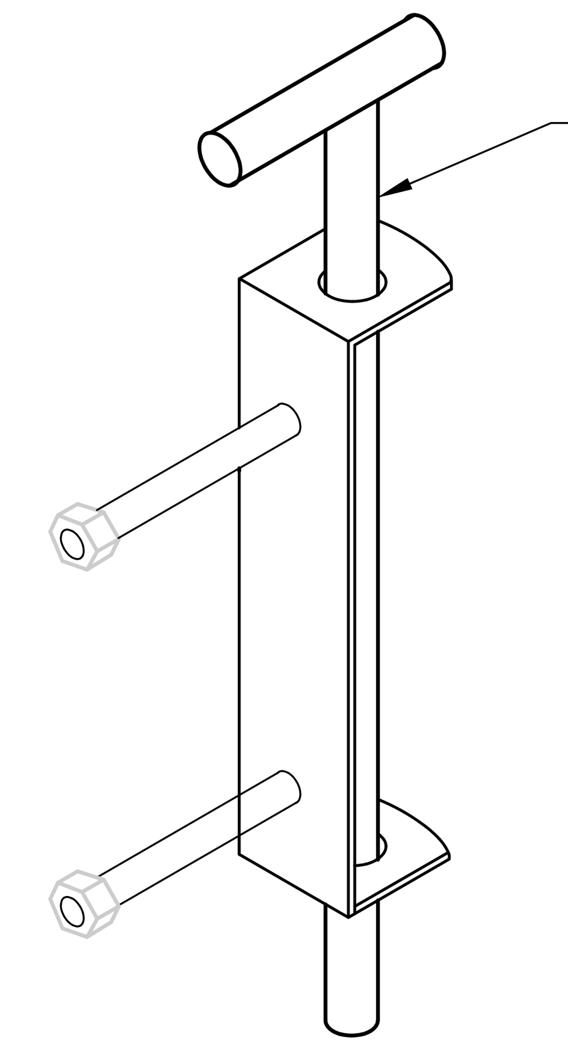
1. ALL CHAINLINK MESH FABRIC TO BE GALVANIZED "12" 9 GAUGE OR HEAVIER WIRE WITH NO LARGER THAN 2" OPENINGS.
2. ALL BARB WIRE TO BE STANDARD TWISTED DOUBLE STRAND 13.5 GAUGE WIRE WITH FOUR POINT BARBS SPACED AN EQUAL DISTANCE APART.
3. CONTRACTOR SHALL USE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTH F'C=4,000 PSI. SUBMIT MIX DESIGN TO BRECKON LANDDESIGN PRIOR TO CONSTRUCTION.
4. CONCRETE MIX SHALL MEET THE BASIC MIX

   DESIGNS FOR 4,500

   PSI CLASS CONCRETE AS SPECIFIED IN ISPWC SECTION 703 2.4 C TABLE 2.
5. STANDARD CHAIN LINK DROP ROD ASSEMBLY IS APPROVED EQUAL.

6 DROP BAR FOOTING

Scale: NTS

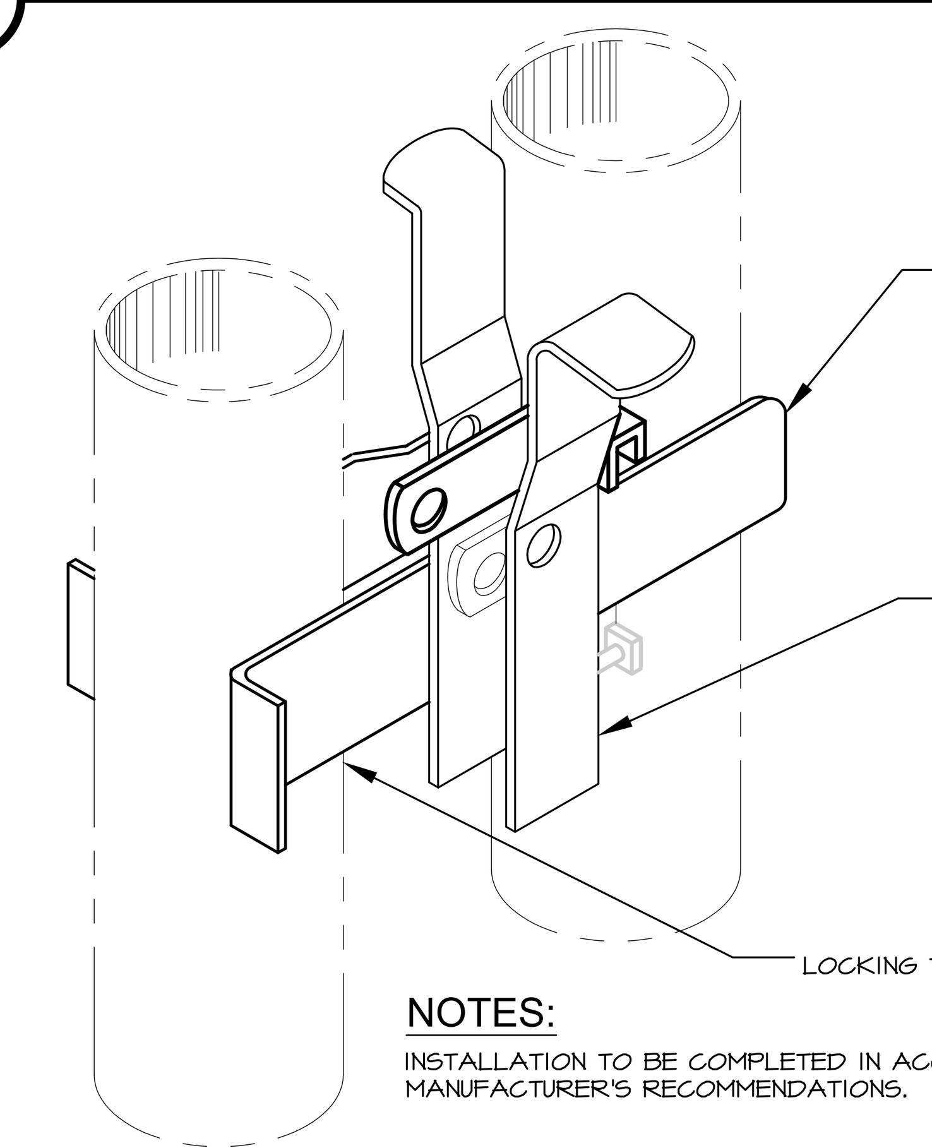


NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. STANDARD CHAIN LINK DROP ROD ASSEMBLY IS APPROVED EQUAL.

7 DROP ROD ASSEMBLY

Scale: NTS

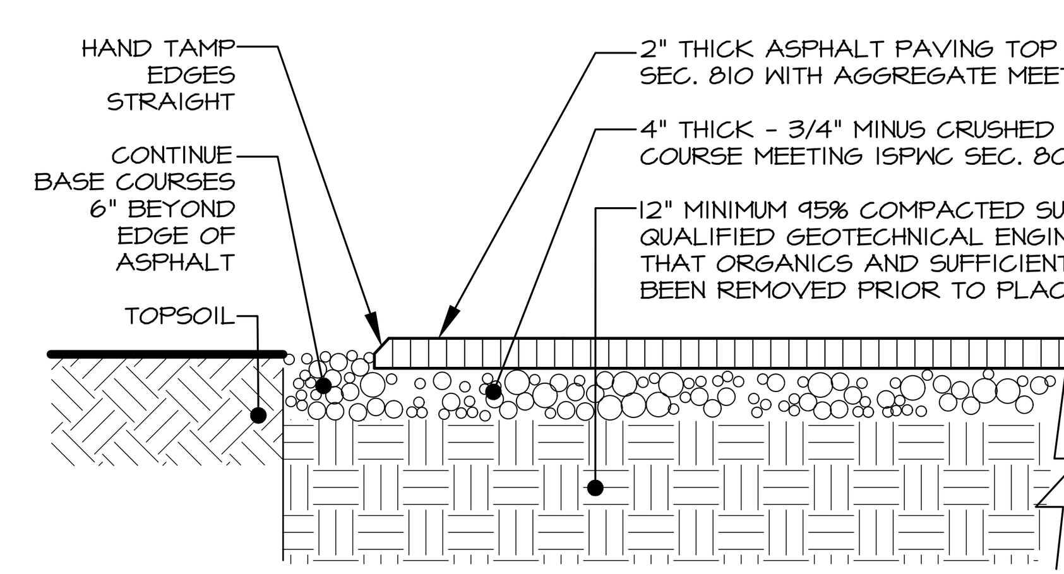


NOTES:

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

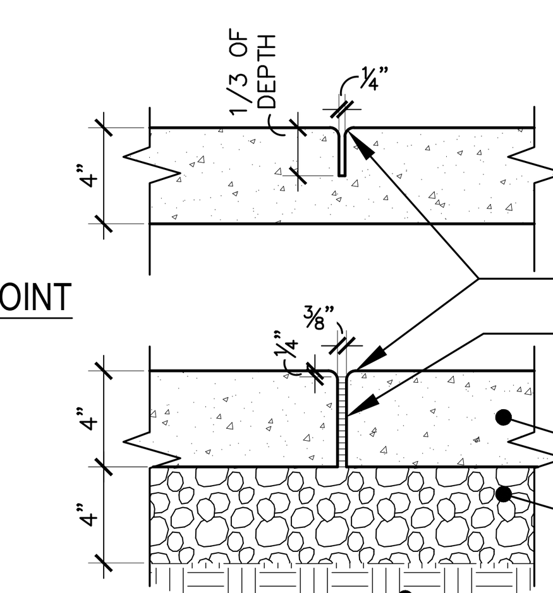
8 GATE LATCH

Scale: NTS



9 ASPHALT WALKING PATH

Scale: 3/4" = 1'-0"

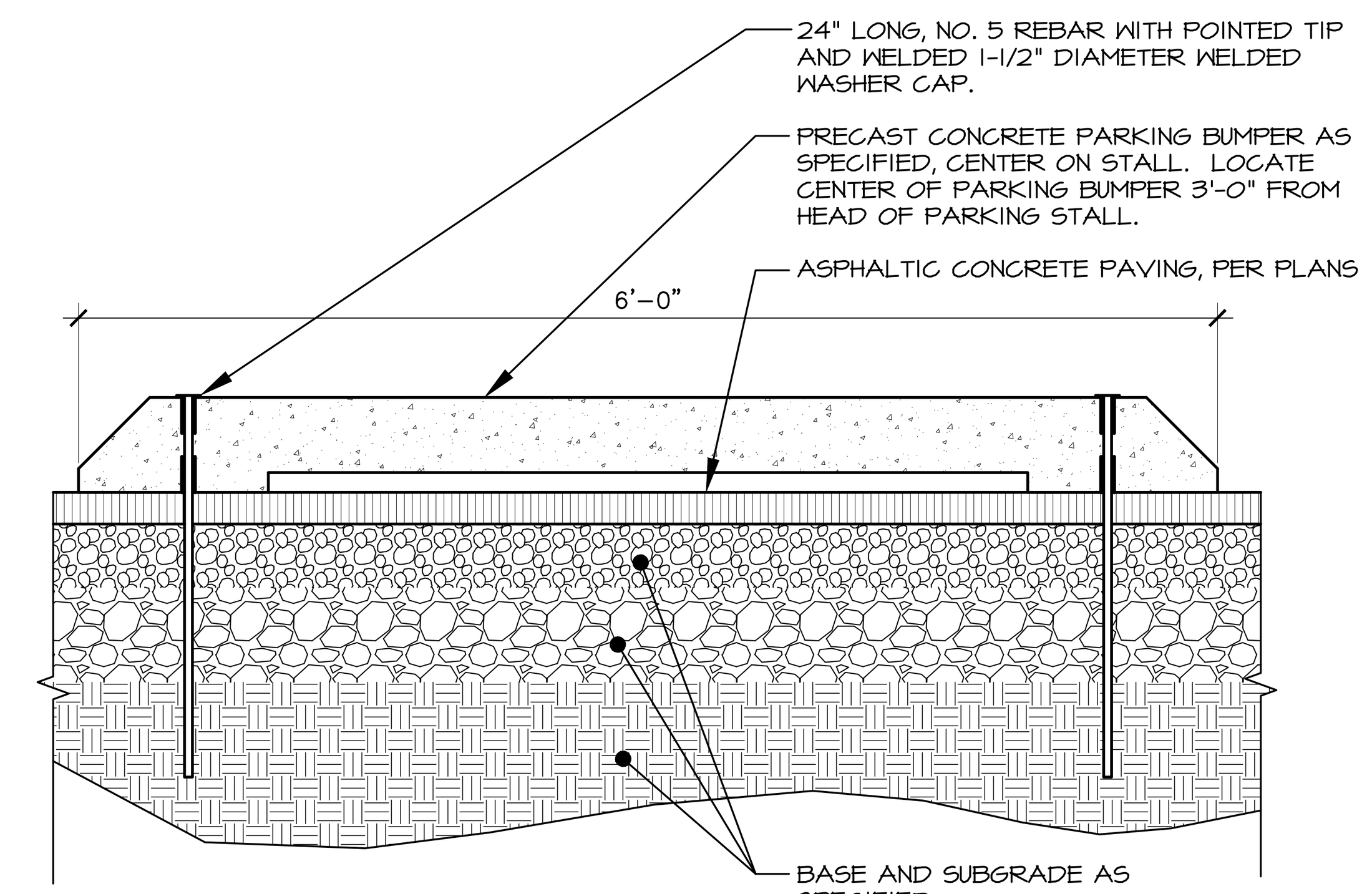


NOTE:

1. REFER TO SPECIFICATIONS FOR 28 DAY COMPRESSIVE STRENGTH REQUIREMENTS.

10 CONCRETE JOINTS

Scale: 1-1/2" = 1'-0"



11 CONCRETE PARKING BUMPER

Scale: 1" = 1'-0"

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LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
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208.336.3443

BRECKON landdesign

STATE OF IDAHO — FRITZ BRECKON — LA-16836 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions		
	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

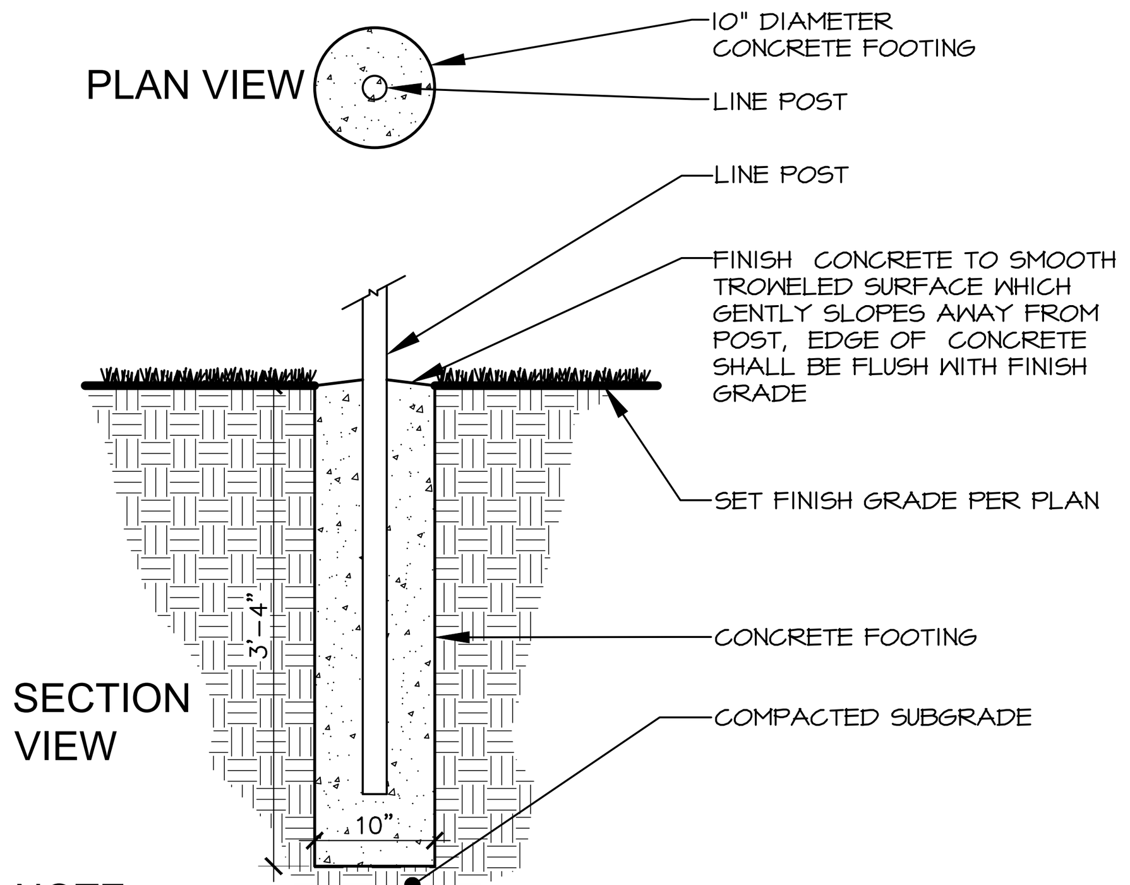
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD5.7

LAYOUT DETAILS

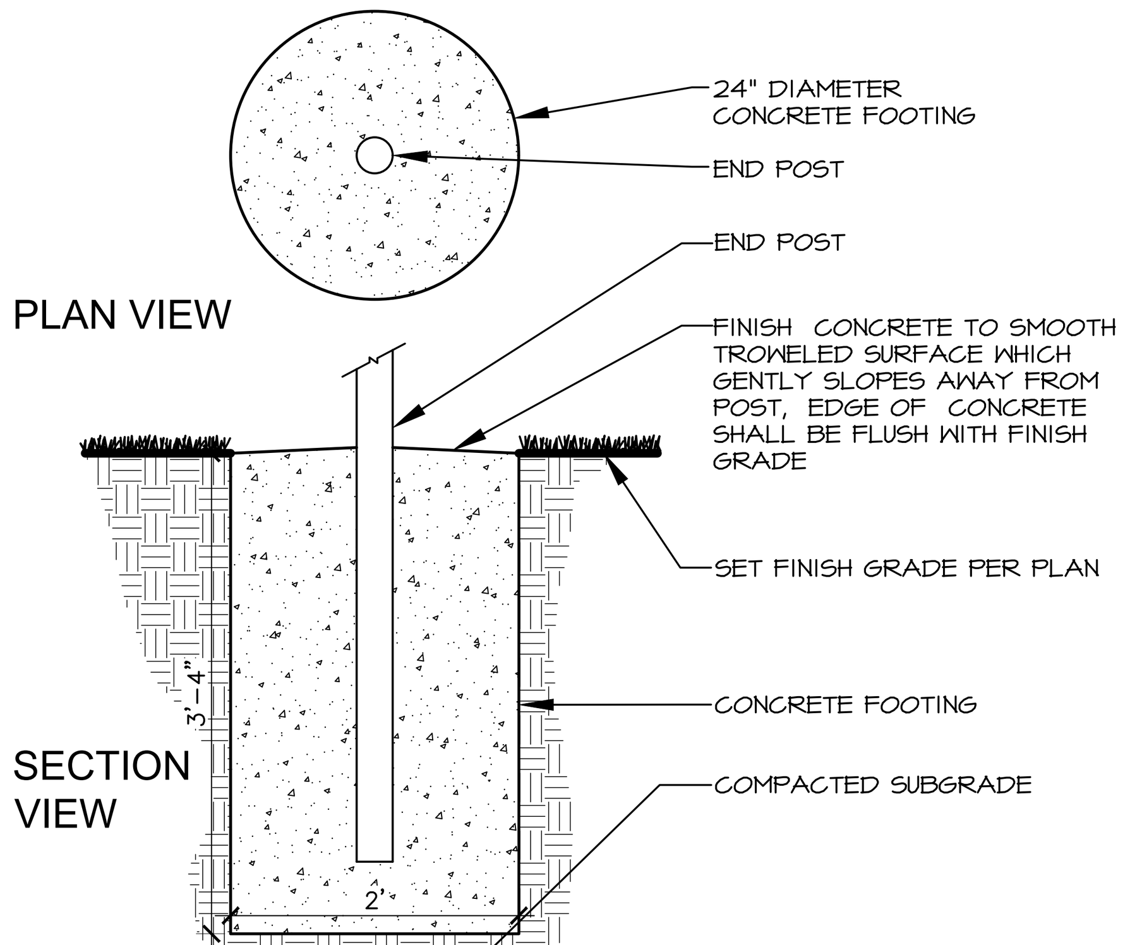


NOTE:

1. CONTRACTOR SHALL USE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTH F'C=4,000 PSI. SUBMIT MIX DESIGN TO BRECKON LANDDESIGN PRIOR TO CONSTRUCTION.
2. CONCRETE MIX SHALL MEET THE BASIC MIX DESIGNS FOR 4,000 PSI CLASS CONCRETE AS SPECIFIED IN ISPWC SECTION 703 2.4 C TABLE 2.

1 LINE POST FOOTING FOR CHAIN LINK WITHOUT SLATS

Scale: 3/4"= 1'-0"

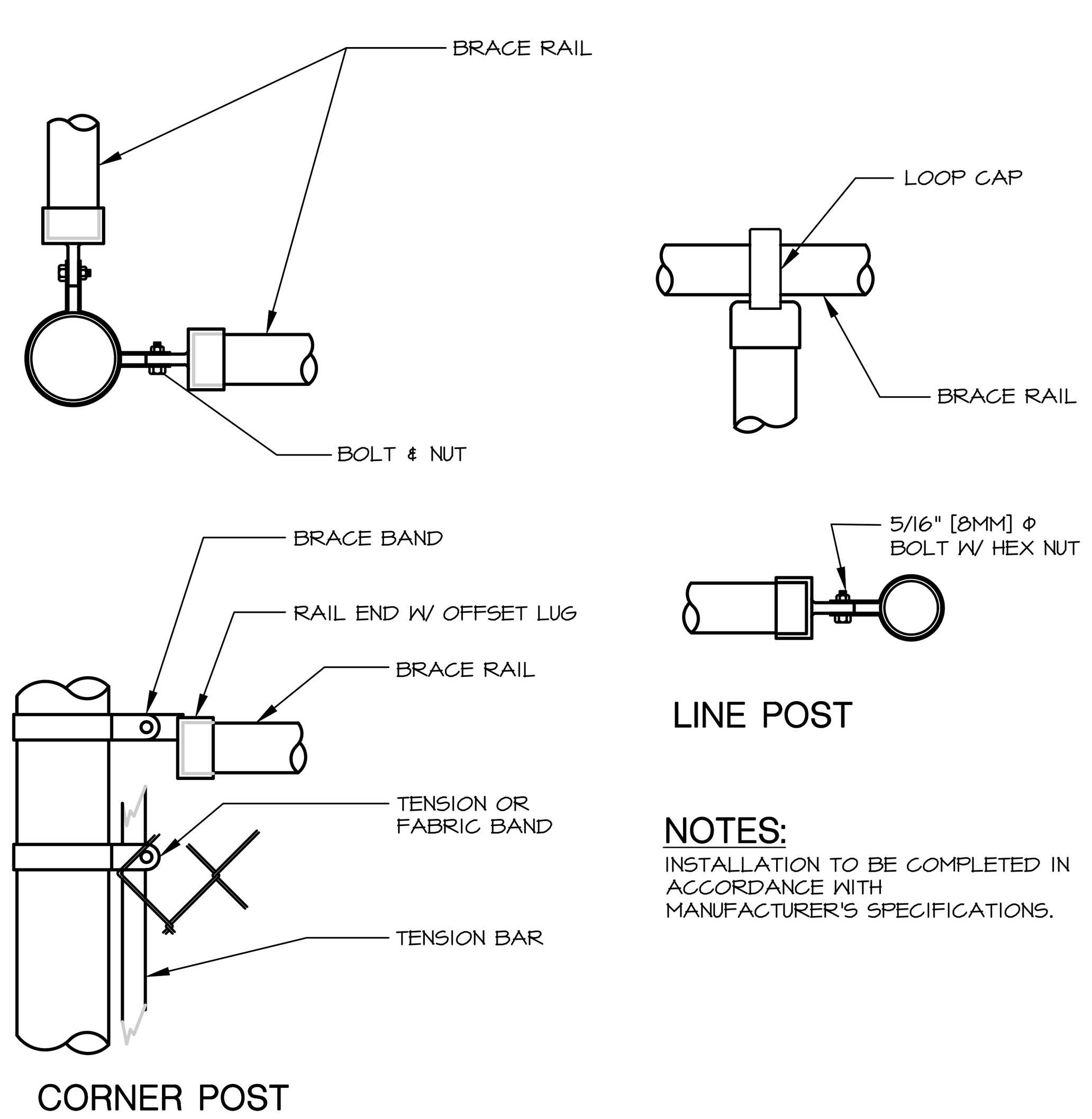


NOTE:

1. CONTRACTOR SHALL USE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTH F'C=4,000 PSI. SUBMIT MIX DESIGN TO BRECKON LANDDESIGN PRIOR TO CONSTRUCTION.
2. CONCRETE MIX SHALL MEET THE BASIC MIX DESIGNS FOR 4,000 PSI CLASS CONCRETE AS SPECIFIED IN ISPWC SECTION 703 2.4 C TABLE 2.

2 GATE, END OR CORNER POST FOOTING FOR CHAIN LINK WITHOUT SLATS

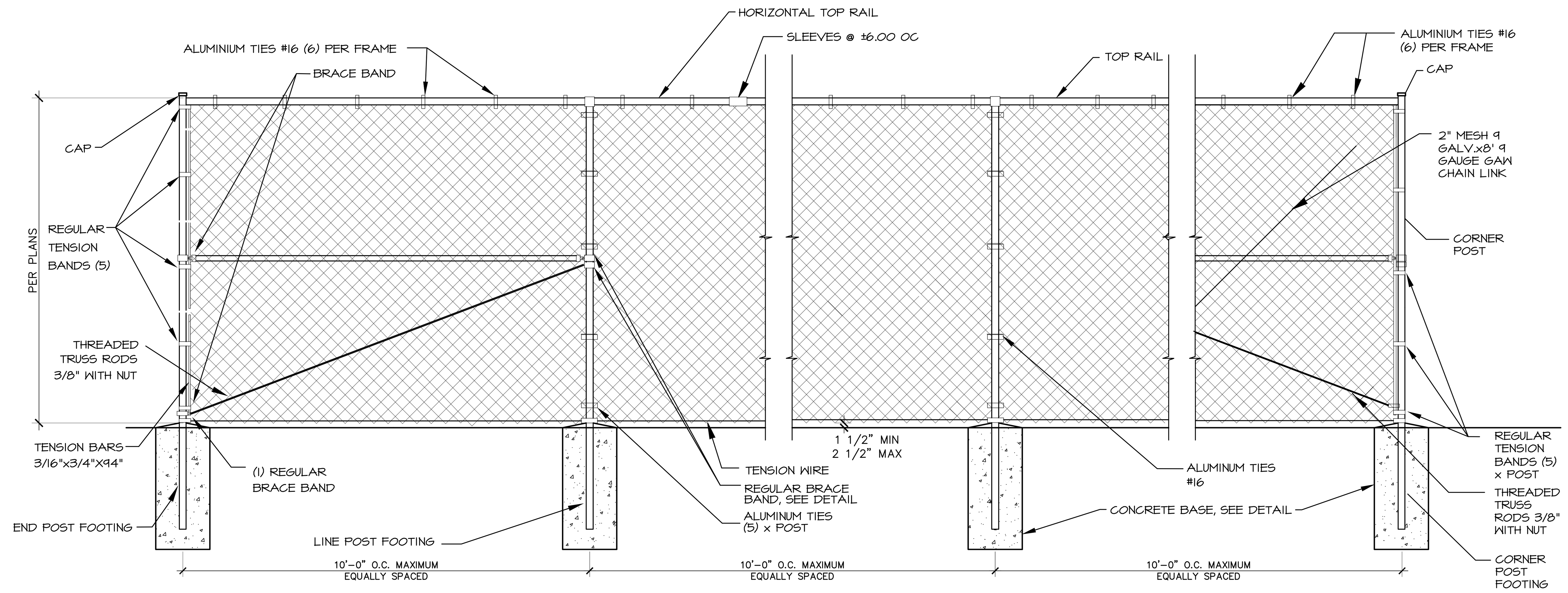
Scale: 3/4"= 1'-0"



NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3 BRACE CONNECTIONS

Scale: NTS



4 CHAIN LINK FENCE

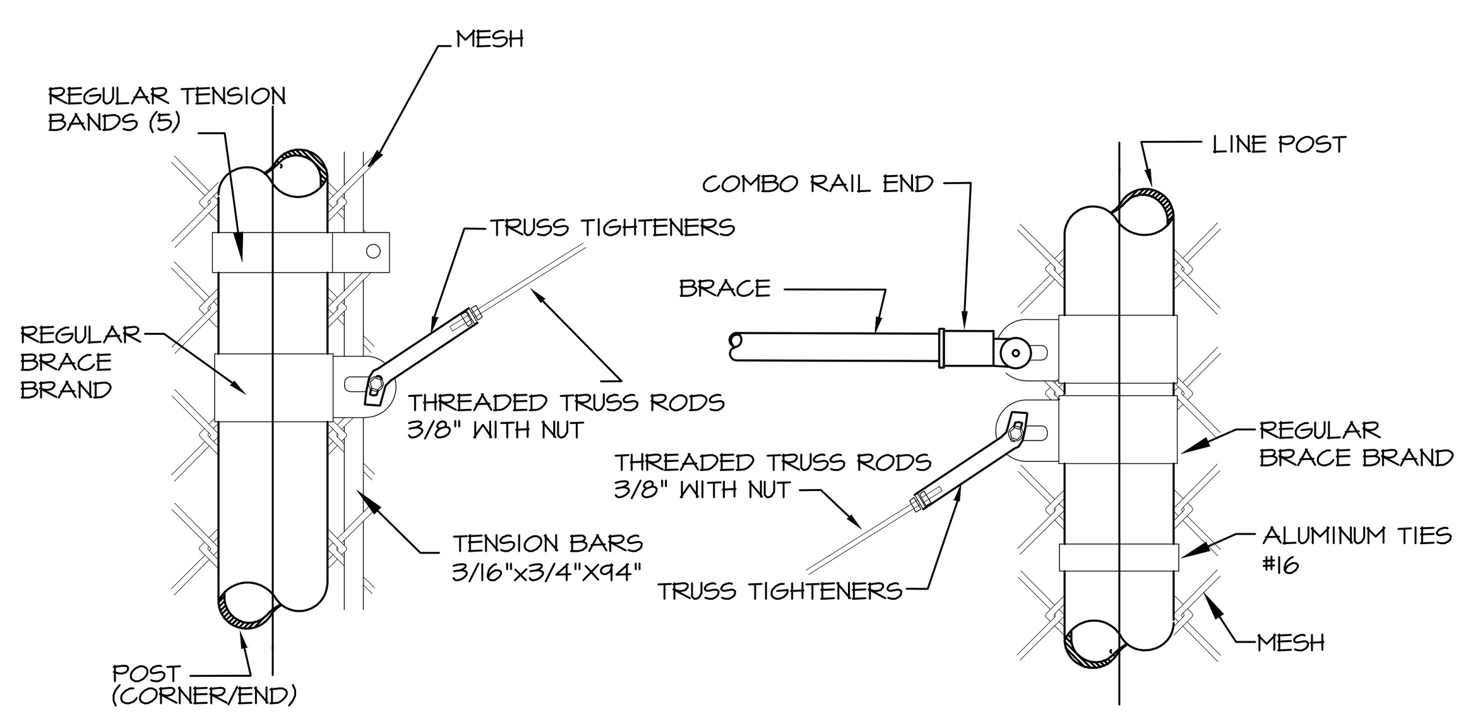
Scale: NTS

NOTES:

1. WIRE TIES, RAILS POSTS AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE OF THE SECURE AREA.
2. POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.
3. ALL CHAINLINK MESH FABRIC TO BE GALVANIZED 72" 9 GAUGE OR HEAVIER WIRE WITH NO LARGER THAN 2" OPENINGS.
4. ALL BARB WIRE TO BE STANDARD TWISTED DOUBLE STRAND 13.5 GAUGE WIRE WITH FOUR POINT BARBS SPACED AN EQUAL DISTANCE APART.
5. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS AS NOTED. PROVIDE KNOX PADLOCK AND CHAIN AT DOUBLE GATE TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS.
6. ALL GATES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900.90" NOMINAL (ROUND). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
7. ALL GATE POSTS SHALL BE SET IN CONCRETE AS SHOWN ON DETAILS AND SPECIFIED.

STEEL POST SCHEDULE

USE AND SECTION	MIN OUTSIDE DIMENSIONS (NOMINAL) FABRIC WIDTH 72" OR LESS
CORNER, END & PULL POSTS TUBULAR - ROUND	2.38" O.D. FOR UP TO 5' HIGH. 2.875" O.D. FOR OVER 5' HIGH.
LINE POSTS TUBULAR - ROUND	1.90" O.D. FOR UP TO 5' HIGH. 2.38" O.D. FOR OVER 5' HIGH.
TOP, BOTTOM & BRACE RAILS TUBULAR - ROUND	1.66" O.D. PLAIN END, SLEEVE COUPLED.

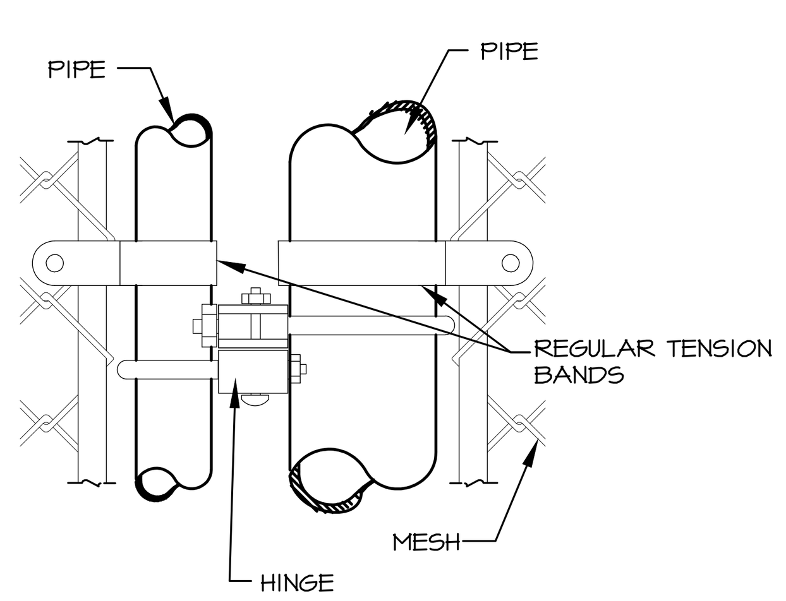


NOTES:

1. ALL CHAINLINK MESH FABRIC TO BE GALVANIZED 72" 9 GAUGE OR HEAVIER WIRE WITH NO LARGER THAN 2" OPENINGS.
2. USE CARRIAGE BOLTS 5/16" x 1 1/4" IF REQUIRED TO SECURE REGULAR TENSION BANDS

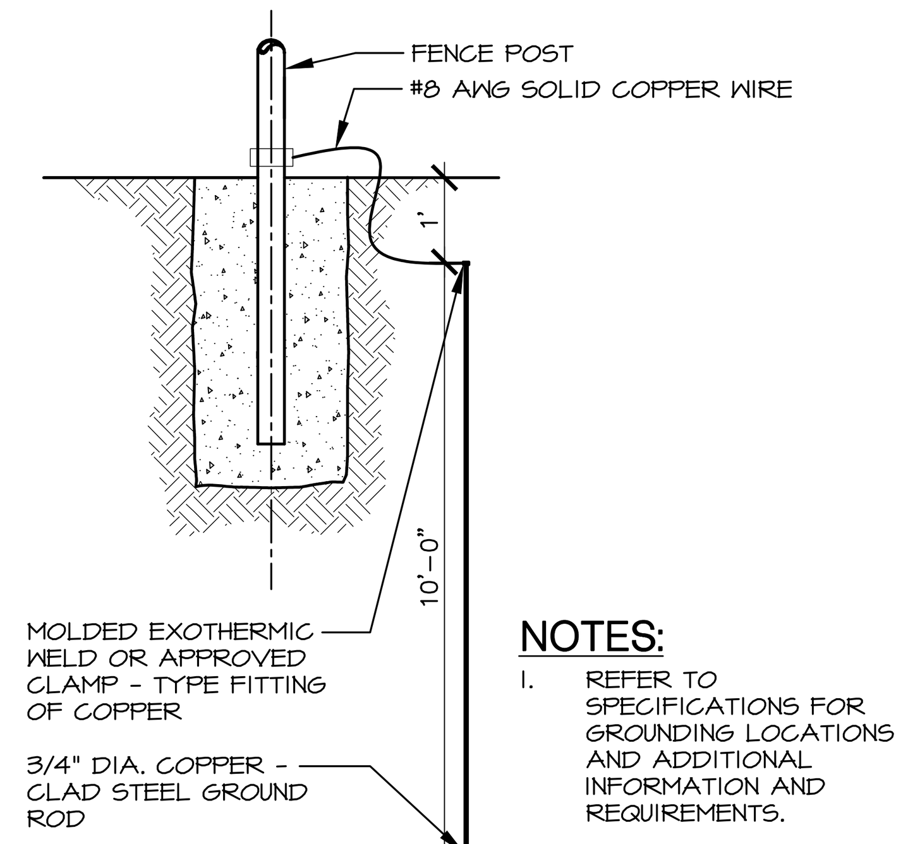
5 TRUSS ROD ASSEMBLY

Scale: NTS



6 HINGE ASSEMBLY

Scale: NTS

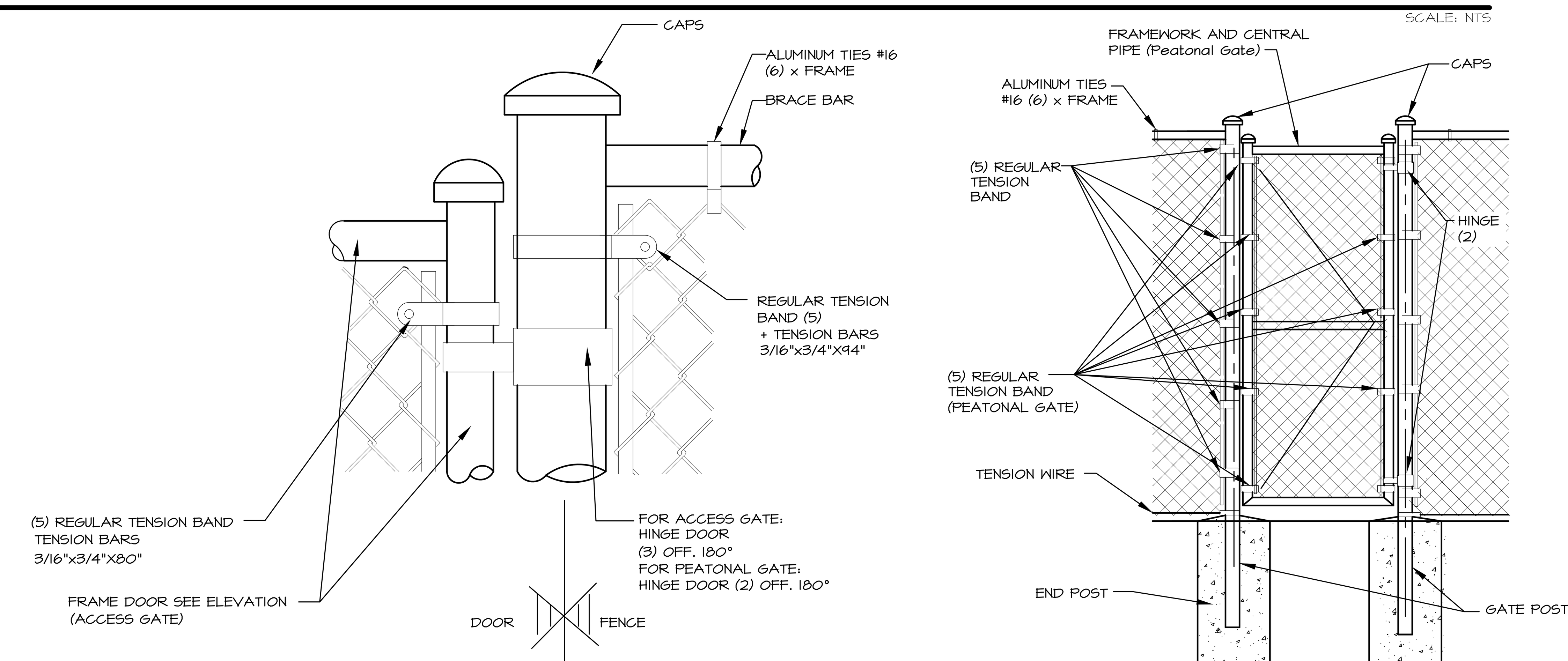


NOTES:

1. REFER TO SPECIFICATIONS FOR GROUNDING LOCATIONS AND ADDITIONAL INFORMATION AND REQUIREMENTS.

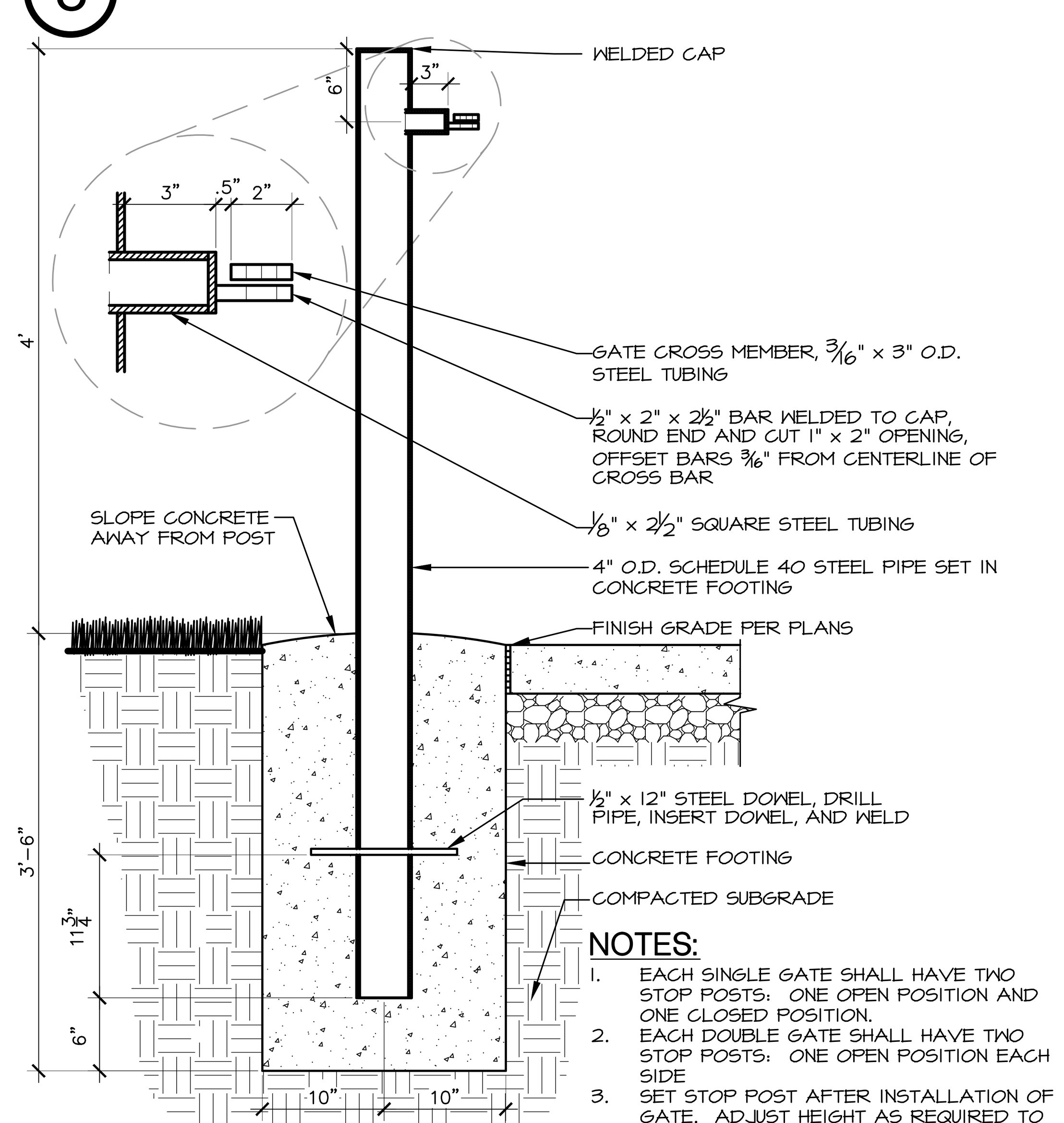
7 GROUNDING DETAIL

Scale: NTS



8 FENCE END AT GATE

NOT TO SCALE



NOTES:

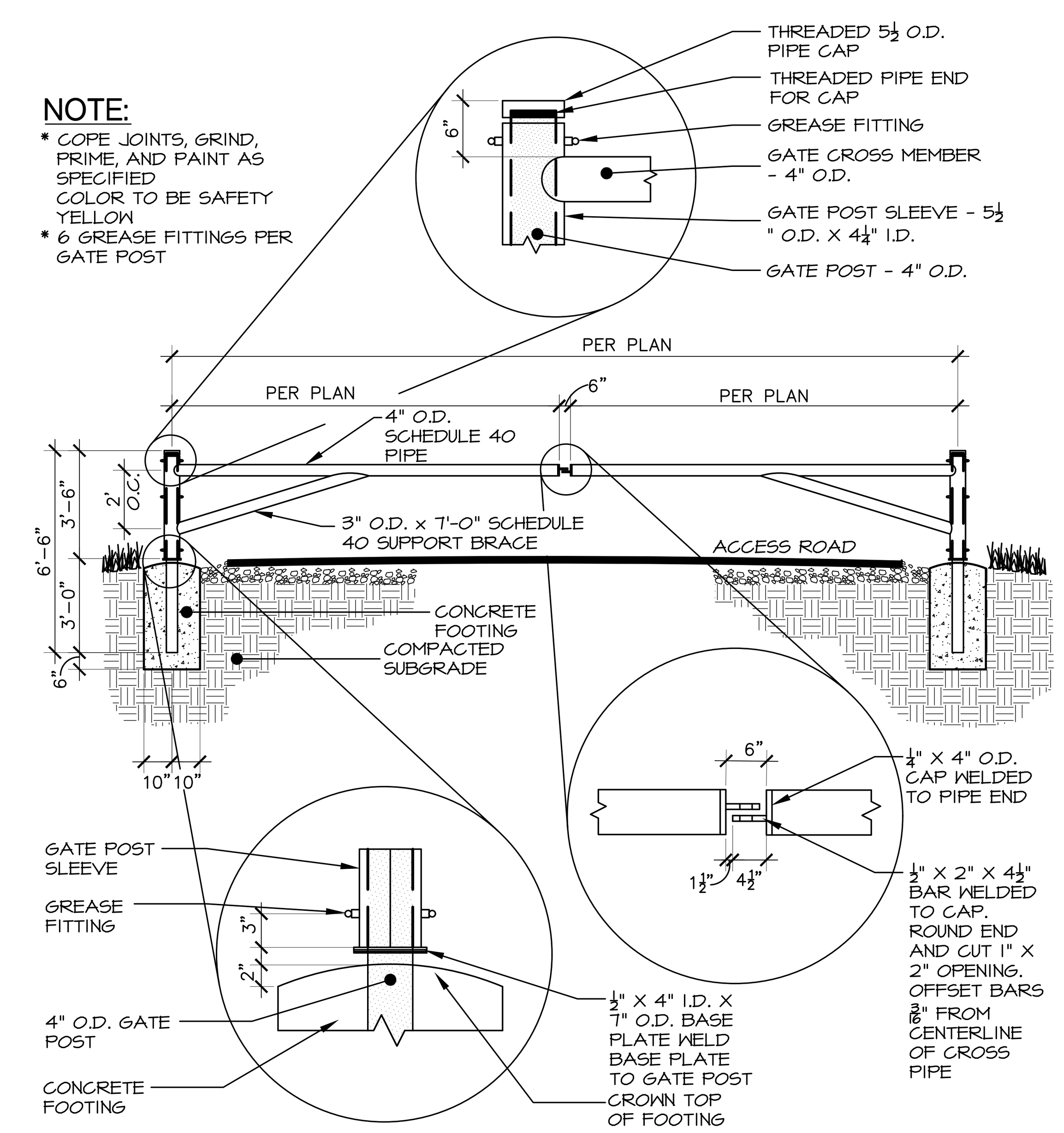
1. EACH SINGLE GATE SHALL HAVE TWO STOP POSTS: ONE OPEN POSITION AND ONE CLOSED POSITION.
2. EACH DOUBLE GATE SHALL HAVE TWO STOP POSTS: ONE OPEN POSITION EACH SIDE
3. SET STOP POST AFTER INSTALLATION OF GATE. ADJUST HEIGHT AS REQUIRED TO SUPPORT GATE FOR EASY OPENING AND CLOSING.
4. REFER TO GATE DETAIL FOR ADDITIONAL INFORMATION.
5. PROVIDE KNOX BOX PADLOCK SYSTEM AS REQUIRED BY STAR FIRE DEPARTMENT.

9 STEEL GATE STOP POST

Scale: 1"=1'-0"

NOTE:

- COPE JOINTS, GRIND, PRIME, AND PAINT AS SPECIFIED COLOR TO BE SAFETY YELLOW
- 6 GREASE FITTINGS PER GATE POST



10 STEEL GATE

Scale: NOT TO SCALE

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BRECKON landdesign

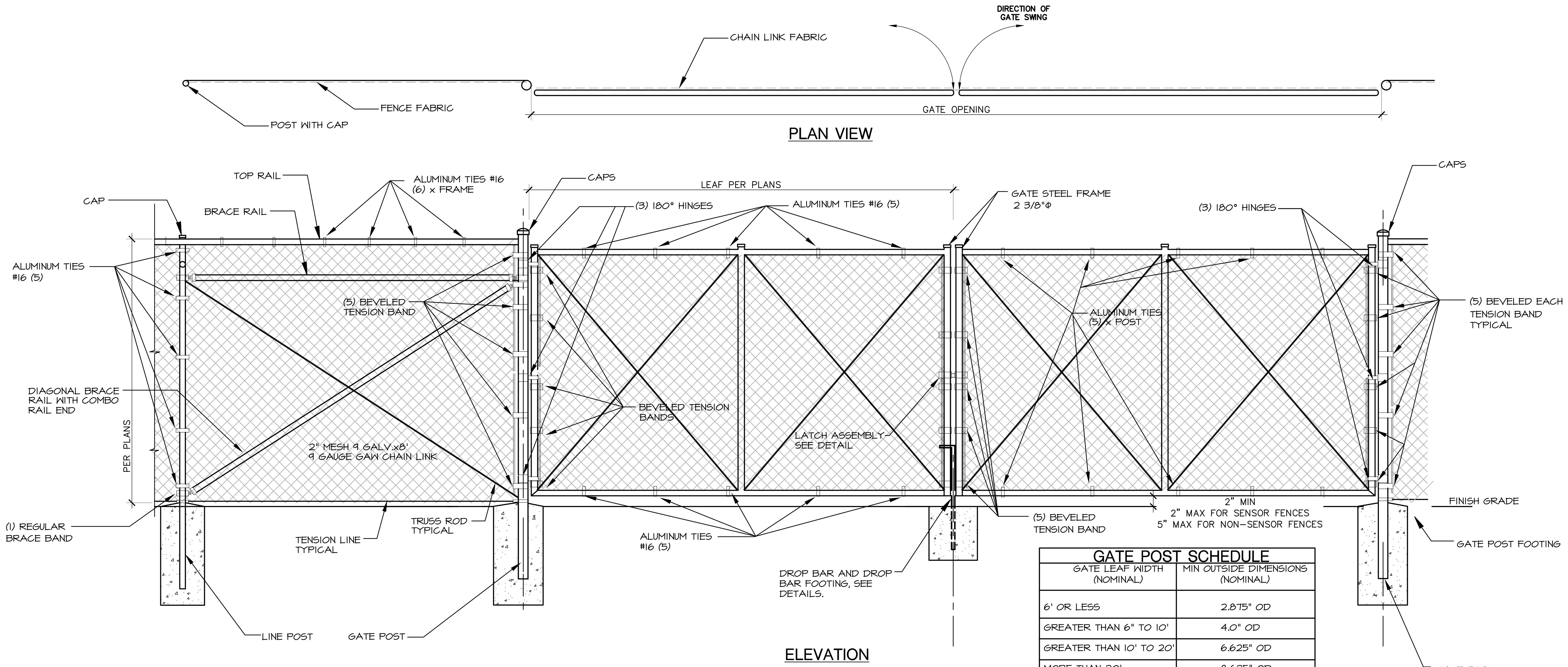
LICENSED LANDSCAPE ARCHITECT · STATE OF IDAHO · LA-16836 · 2/11/2022

Revisions
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB
BID SET
DRAWING NO.:
SD5.8
LAYOUT DETAILS

S:_projects\2021\21114 jerome elementary\CAD\sheets\SD5.0 LAYOUT PLAN.dwg plotted by: cvalle on Fri, February 18 2022 at 10:06 AM

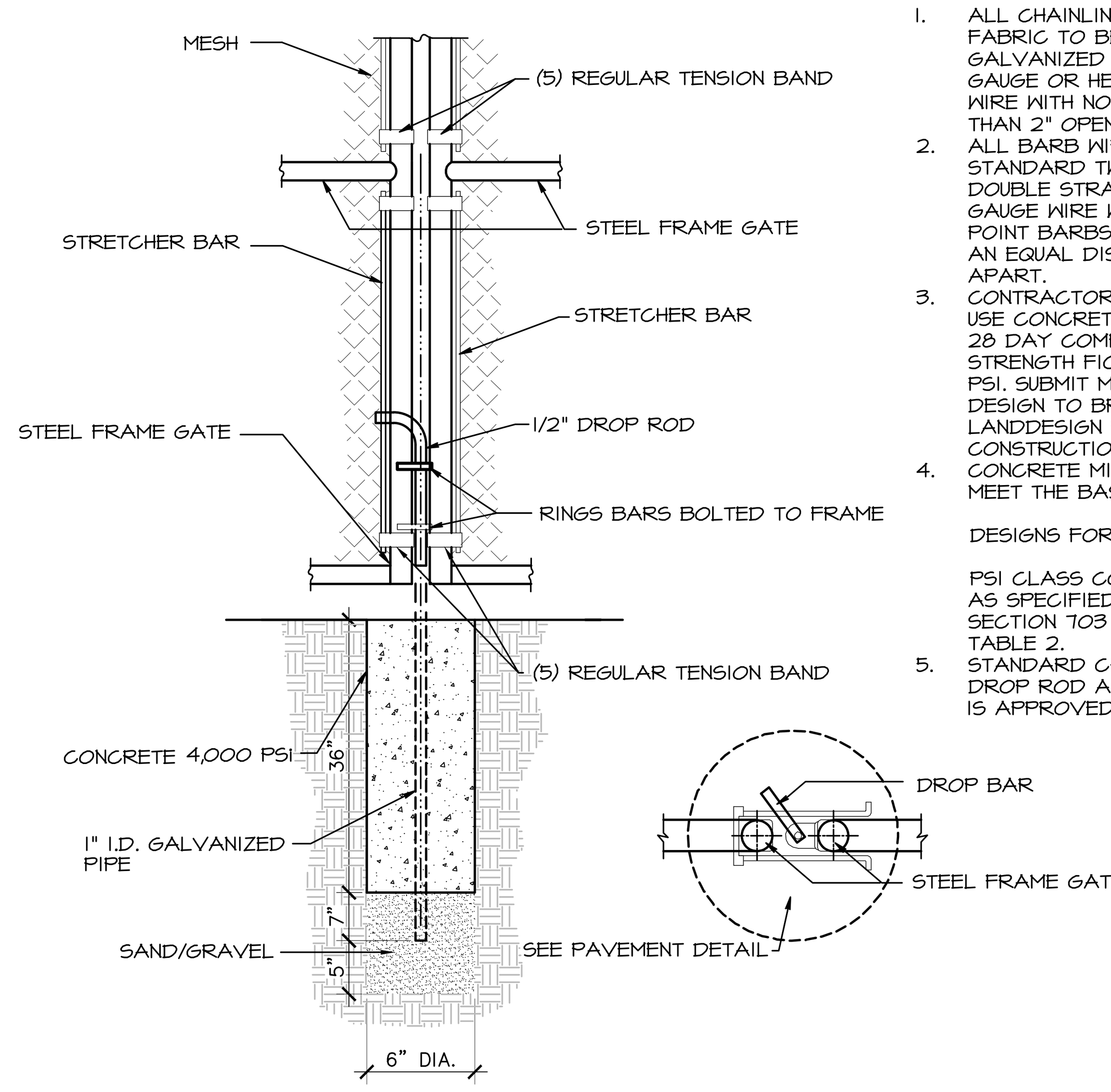


GATE POST SCHEDULE

GATE LEAF WIDTH (NOMINAL)	MIN OUTSIDE DIMENSIONS (NOMINAL)
6' OR LESS	2.875" OD
GREATER THAN 6' TO 10'	4.0" OD
GREATER THAN 10' TO 20'	6.625" OD
MORE THAN 20'	8.625" OD

1 DOUBLE SWING GATE

SCALE: NTS



NOTES:

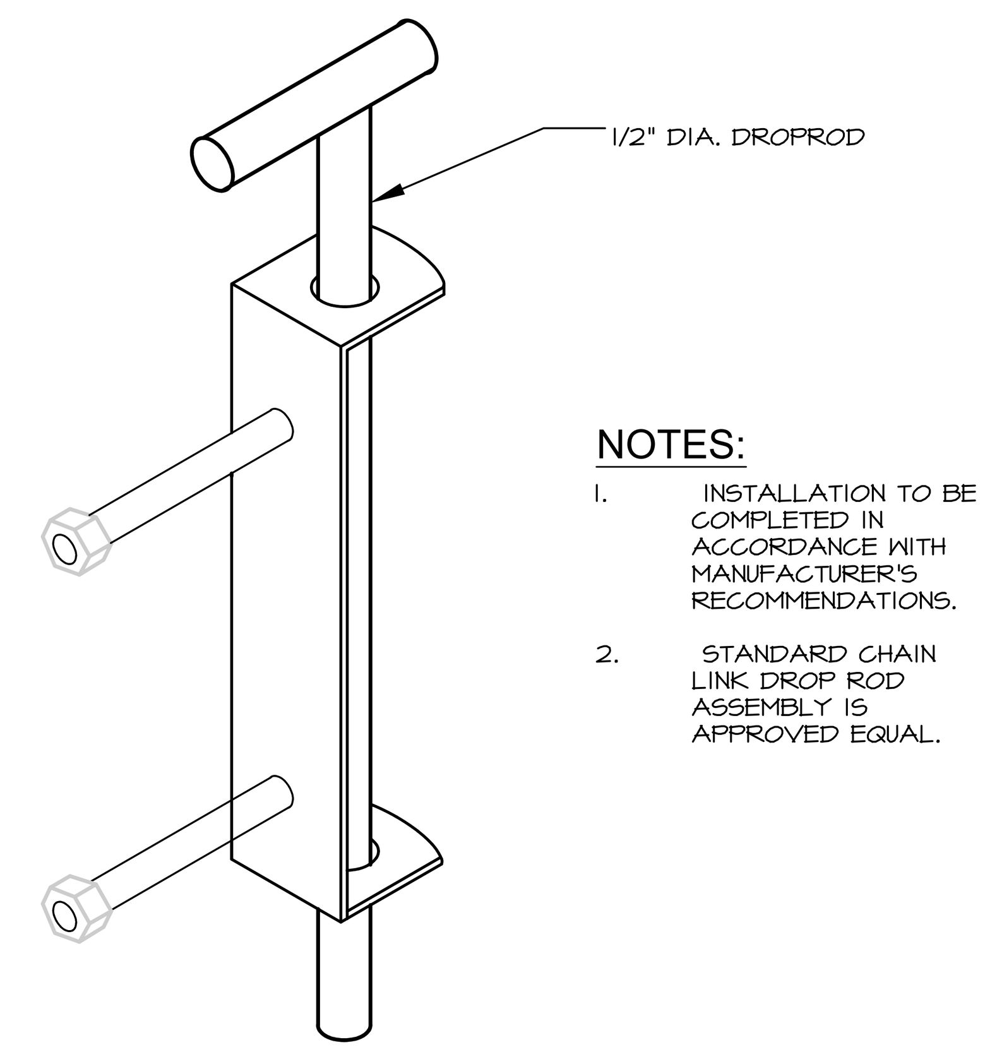
1. ALL CHAINLINK MESH FABRIC TO BE GALVANIZED "2" 9 GAUGE OR HEAVIER WIRE WITH NO LARGER THAN 2" OPENINGS.
2. ALL BARB WIRE TO BE STANDARD TWISTED DOUBLE STRAND 13.5 GAUGE WIRE WITH FOUR POINT BARBS SPACED AN EQUAL DISTANCE APART.
3. CONTRACTOR SHALL USE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTH F'C=4,000 PSI. SUBMIT MIX DESIGN TO BRECKON LANDDESIGN PRIOR TO CONSTRUCTION.
4. CONCRETE MIX SHALL MEET THE BASIC MIX

   DESIGNS FOR 4,500

   PSI CLASS CONCRETE AS SPECIFIED IN ISPWC SECTION 703 2.4 C TABLE 2.
5. STANDARD CHAIN LINK DROP ROD ASSEMBLY IS APPROVED EQUAL.

2 DROP BAR FOOTING

Scale: NTS



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. STANDARD CHAIN LINK DROP ROD ASSEMBLY IS APPROVED EQUAL.

3 DROP ROD ASSEMBLY

Scale: NTS

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Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

BRECKON landdesign

STATE OF IDAHO — LICENSED LANDSCAPE ARCHITECT — LA-16836 — 2/11/2022

Date	Revisions Description

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

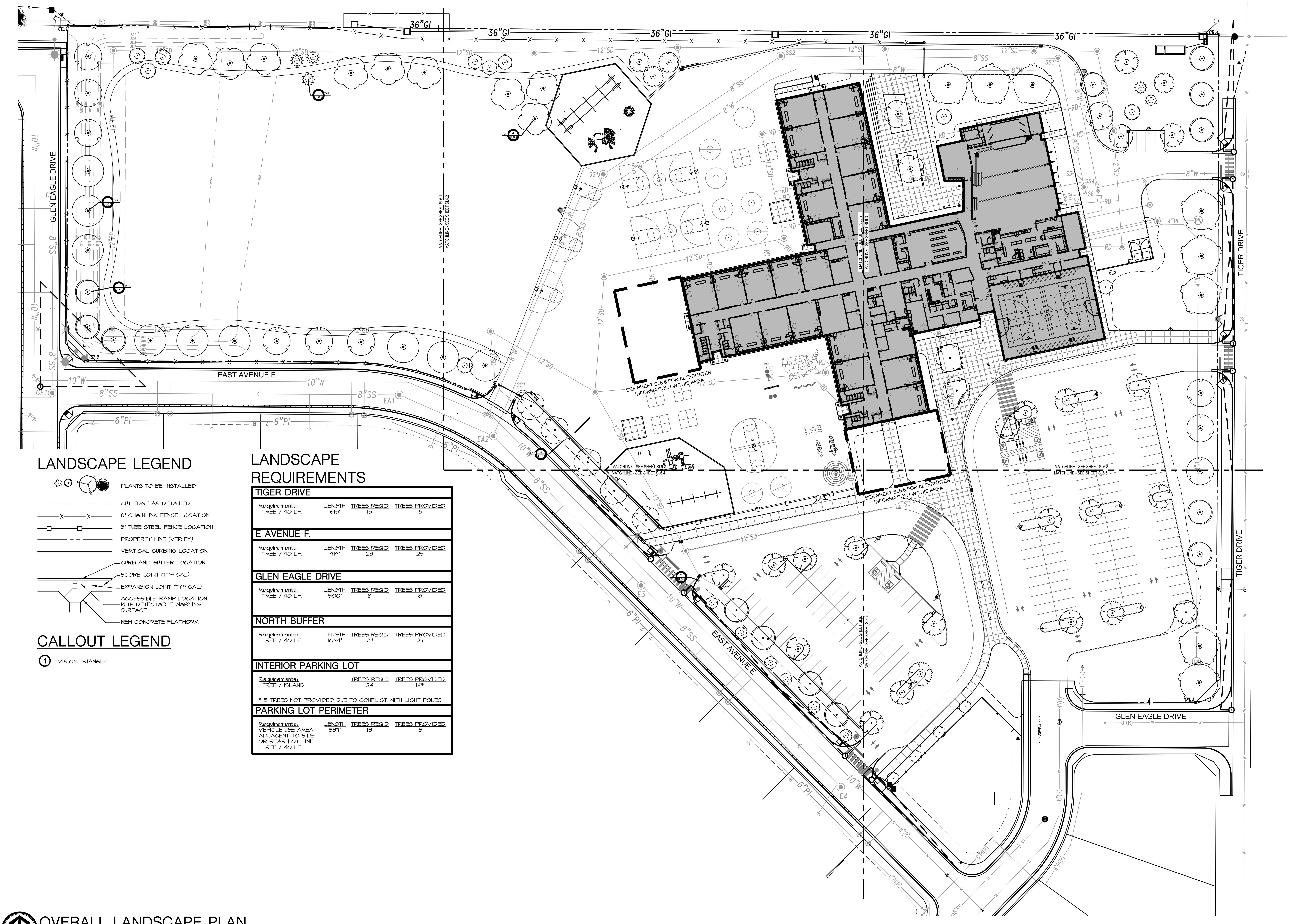
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SD5.9

LAYOUT DETAILS



LANDSCAPE LEGEND

- PLANTS TO BE INSTALLED
- CUT EDGE AS DETAILED
- 6' CHAINLINK FENCE LOCATION
- 3' TUBE STEEL FENCE LOCATION
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK

CALLOUT LEGEND

1 VISION TRIANGLE

LANDSCAPE REQUIREMENTS

TIGER DRIVE

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	615'	15	15

E AVENUE F.

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	919'	23	23

GLEN EAGLE DRIVE

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	300'	8	8

NORTH BUFFER

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	1094'	27	27

INTERIOR PARKING LOT

Requirements:	TREES REQ'D	TREES PROVIDED
1 TREE / ISLAND	24	19*

* 5 TREES NOT PROVIDED DUE TO CONFLICT WITH LIGHT POLES

PARKING LOT PERIMETER

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

OVERALL LANDSCAPE PLAN

40 0 40 80 120

SCALE: 1"= 40'-0"

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LA-16836
2/11/2022

Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

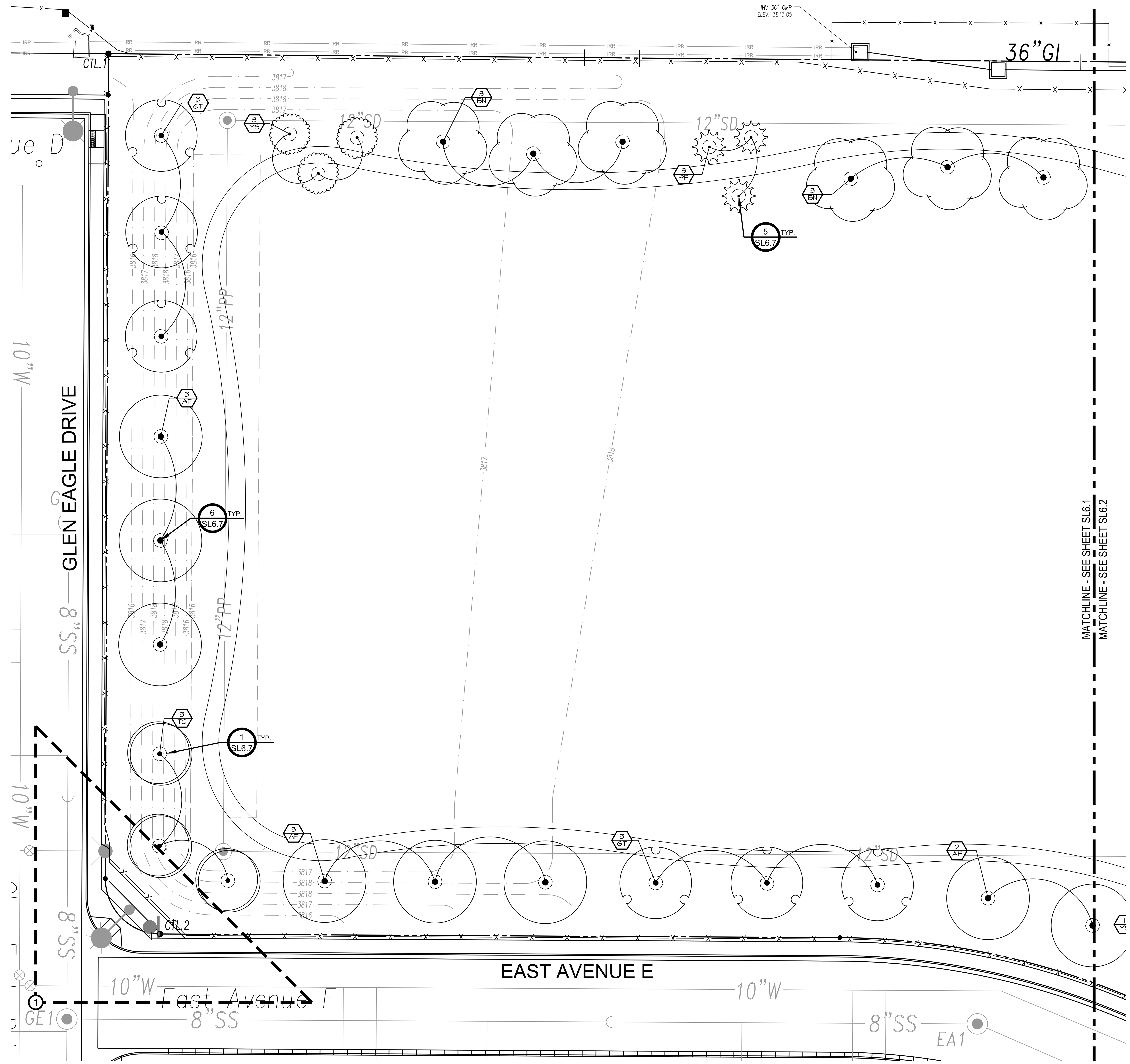
DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

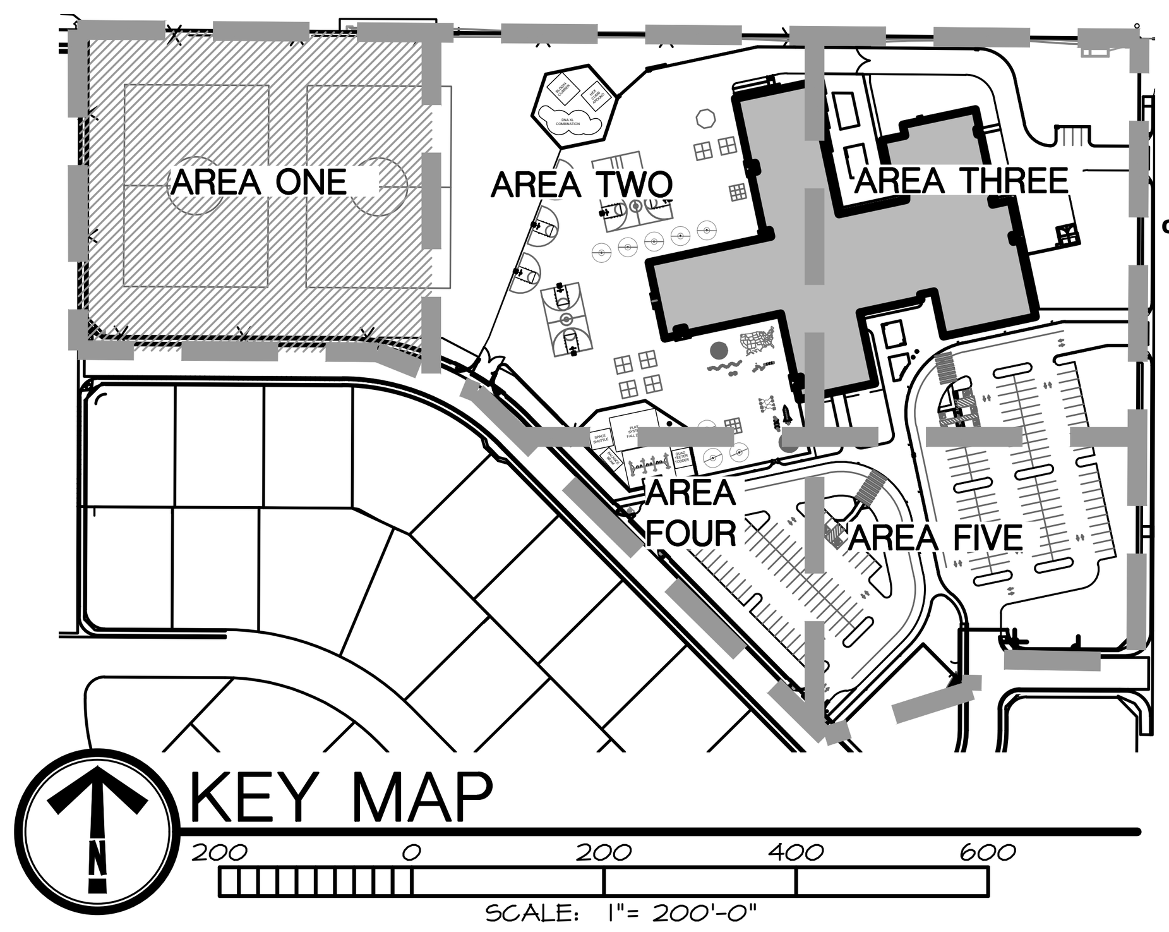
DRAWING NO.:

SL6.0
OVERALL LANDSCAPE PLAN



LANDSCAPE PLAN- AREA ONE

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

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LANDSCAPE REQUIREMENTS

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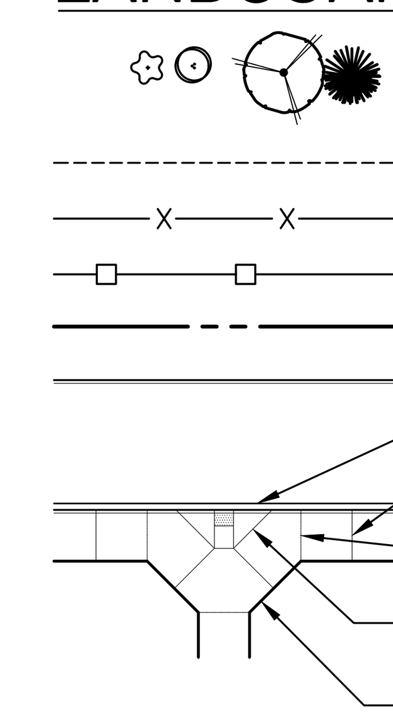
VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

LANDSCAPE LEGEND



PLANTS TO BE INSTALLED
CUT EDGE AS DETAILED
6' CHAINLINK FENCE LOCATION
3' TUBE STEEL FENCE LOCATION
PROPERTY LINE (VERIFY)
VERTICAL CURBING LOCATION
CURB AND GUTTER LOCATION
SCORE JOINT (TYPICAL)
EXPANSION JOINT (TYPICAL)
ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
NEW CONCRETE FLATWORK

CALLOUT LEGEND

(1) VISION TRIANGLE

PLANT SCHEDULE-BASE BID

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
9	AF	Acer x freemanii 'Sienna' TM	Sienna Glen Maple	2" Cal. B&B	50' H X 40' W
9	BN	Betula nigra	River Birch	2" Cal. B&B	45' H X 40' W
10	GB	Ginkgo biloba 'Autumn Gold' TM (Male only)	Autumn Gold Maidenhair Tree	2" Cal. B&B	45' H X 35' W
9	GT	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Honey Locust	2" Cal. B&B	45' H X 35' W
13	TC	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2" Cal. B&B	40' H X 30' W
8	UP	Ulmus americana 'Princeton'	Princeton American Elm	2" Cal. B&B	65' H X 50' W
22	ZG	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2" Cal. B&B	45' H X 30' W
CONIFEROUS TREES					
2	PG	Picea glauca 'Densata'	Black Hills White Spruce	6'-7' Ht. B&B	40' H X 15' W
3	PF	Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	6'-7' Ht. B&B	25' H X 15' W
4	PN	Pinus nigra	Austrian Pine	6'-7' Ht. B&B	40' H X 25' W
ORNAMENTAL TREES					
4	CC	Cercis canadensis	Eastern Redbud Multi-trunk	2" Cal. B&B	25' H X 20' W
6	MS	Malus x 'Spring Snow'	Spring Snow Crabapple	2" Cal. B&B	20' H X 20' W
10	PC	Pyrus calleryana 'Capital'	Capital Callery Pear	2" Cal. B&B	40' H X 15' W
SHRUBS/PERENNIALS/ORNAMENTAL GRASSES					
87	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	6' H X 3' W
37	CI	Cornus sericea 'Isanti'	Isanti Red Twig Dogwood	5 gal.	6' H X 6' W
36	EA	Euonymus alatus 'Coles Compact'	Coles Compact Burning Bush	5 gal.	8' H X 8' W
25	FG	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	1' H X 1' W
33	FI	Forsythia x intermedia 'Mindor' TM	Show Off Forsythia	5 gal.	6' H X 6' W
44	GA	Gaillardia x 'Arizona Sun'	Arizona Sun Blanket Flower	1 gal.	1' H X 2' W
36	HE	Hemerocallis x 'Sherwood Cheer'	Sherwood Cheer Daylily	1 gal.	3' H X 3' W
70	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	1 gal.	3' H X 3' W
62	LS	Leucanthemum x superbum	Shasta Daisy	1 gal.	3' H X 2' W
20	PO	Physocarpus opulifolius 'Jefam' TM	Amber Jubilee Ninebark	5 gal.	6' H X 4' W
83	PM	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	5 gal.	3' H X 5' W
22	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	2' H X 8' W
50	RR	Rosa x 'Radtkopink' TM	Pink Double Knock Out Rose	5 gal.	4' H X 4' W
45	RF	Rudbeckia fulgida	Black-Eyed Susan	1 gal.	2' H X 2' W
41	SN	Spiraea nipponica 'Snowmound'	Snowmound Spirea	5 gal.	4' H X 4' W
17	VM	Vinca minor 'Bowles'	Bowles Periwinkle	1 gal.	.5' H X SPREADING

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www.breckonlanddesign.com
Fax: 208-376-6528
Phone: 208-376-5153
6661 North Glenwood Street
Garden City, Idaho 83714

STATE OF IDAHO · JON FRITZ BRECKON · LICENSED LANDSCAPE ARCHITECT · LA-16536 · 2/11/2022

Revisions
Description | Date

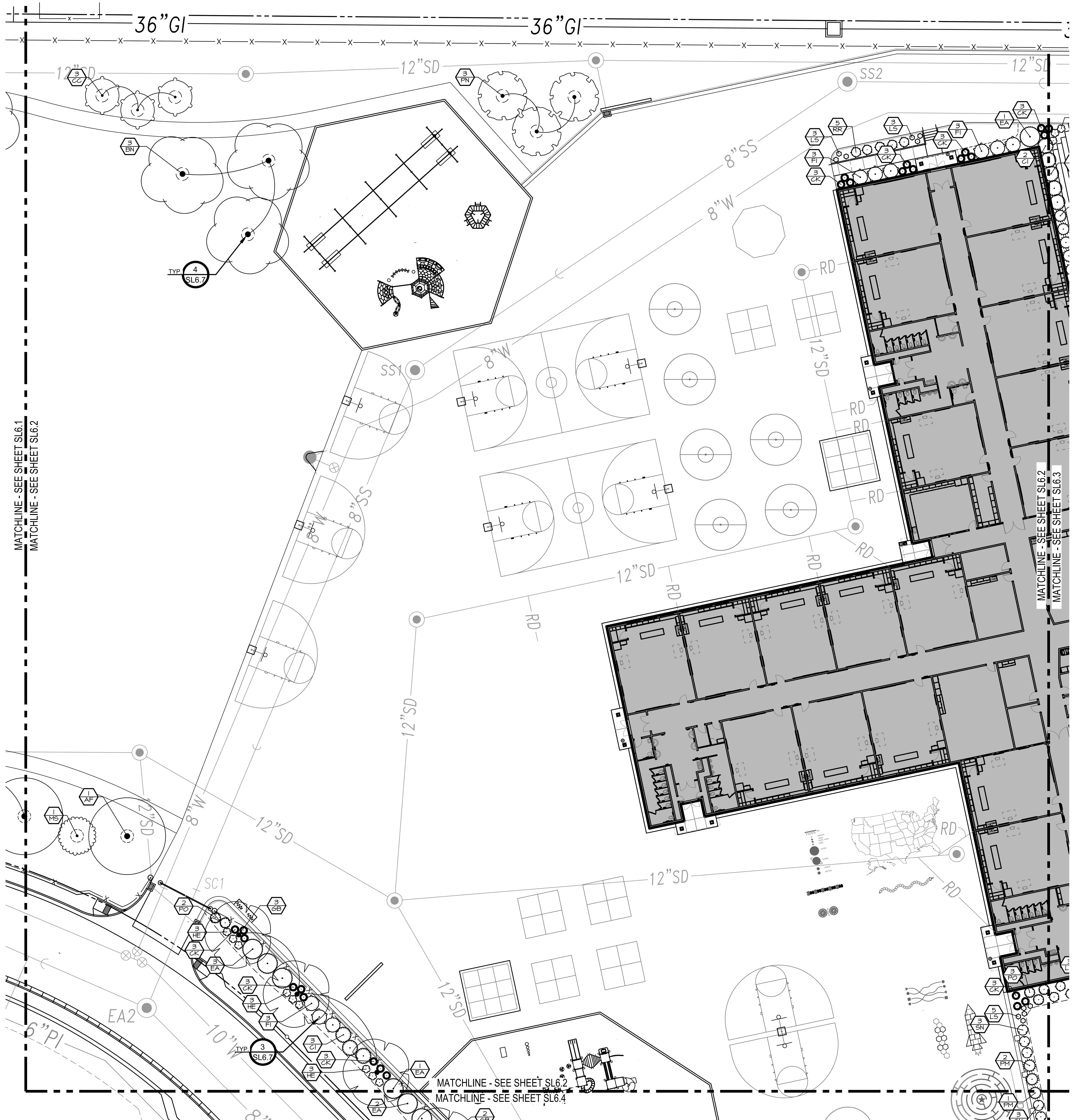
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

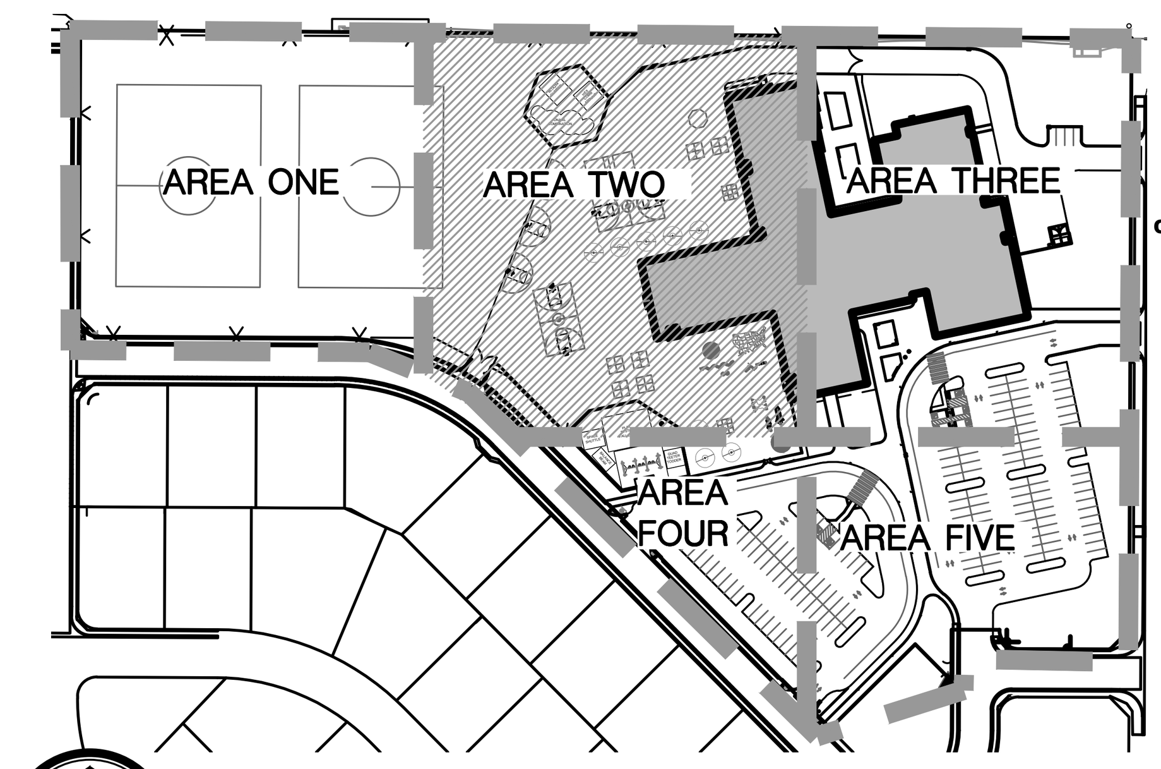
BID SET

DRAWING NO.:
SL6.1
LANDSCAPE PLAN- AREA ONE



LANDSCAPE PLAN- AREA TWO

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

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LANDSCAPE REQUIREMENTS

Section	Requirements	Length	Trees Req'd	Trees Provided
TIGER DRIVE	1 TREE / 40 LF.	615'	15	15
E AVENUE F.	1 TREE / 40 LF.	919'	23	23
GLEN EAGLE DRIVE	1 TREE / 40 LF.	300'	8	8
NORTH BUFFER	1 TREE / 40 LF.	1094'	27	27
INTERIOR PARKING LOT	1 TREE / ISLAND		24	19*
PARKING LOT PERIMETER	VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

* 5 TREES NOT PROVIDED DUE TO CONFLICT WITH LIGHT POLES

LANDSCAPE LEGEND

- PLANTS TO BE INSTALLED
- CUT EDGE AS DETAILED
- 6' CHAINLINK FENCE LOCATION
- 3' TUBE STEEL FENCE LOCATION
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK

CALLOUT LEGEND

1 VISION TRIANGLE

PLANT SCHEDULE-BASE BID

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
9	AF	Acer x freemanii 'Sienna' TM	Sienna Glen Maple	2" Cal. B&B	50' H X 40' W
9	BN	Betula nigra	River Birch	2" Cal. B&B	45' H X 40' W
10	GB	Ginkgo biloba 'Autumn Gold' TM (Male only)	Autumn Gold Maidenhair Tree	2" Cal. B&B	45' H X 35' W
9	GT	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Honey Locust	2" Cal. B&B	45' H X 35' W
13	TC	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2" Cal. B&B	40' H X 30' W
8	UP	Ulmus americana 'Princeton'	Princeton American Elm	2" Cal. B&B	65' H X 50' W
22	ZG	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2" Cal. B&B	45' H X 30' W
CONIFEROUS TREES					
2	PG	Picea glauca 'Densata'	Black Hills White Spruce	6'-7' Ht. B&B	40' H X 15' W
3	PF	Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	6'-7' Ht. B&B	25' H X 15' W
4	PN	Pinus nigra	Austrian Pine	6'-7' Ht. B&B	40' H X 25' W
ORNAMENTAL TREES					
4	CC	Cercis canadensis	Eastern Redbud Multi-trunk	2" Cal. B&B	25' H X 20' W
6	MS	Malus x 'Spring Snow'	Spring Snow Crabapple	2" Cal. B&B	20' H X 20' W
10	PC	Pyrus calleryana 'Capital'	Capital Callery Pear	2" Cal. B&B	40' H X 15' W
SHRUBS/PERENNIALS/ORNAMENTAL GRASSES					
87	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	6' H X 3' W
37	CI	Cornus sericea 'Isanti'	Isanti Red Twig Dogwood	5 gal.	6' H X 6' W
36	EA	Evonymus alatus 'Coles Compact'	Coles Compact Burning Bush	5 gal.	8' H X 8' W
25	FG	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	1' H X 1' W
33	FI	Forsythia x intermedia 'Mindor' TM	Show Off Forsythia	5 gal.	6' H X 6' W
44	GA	Gaillardia x 'Arizona Sun'	Arizona Sun Blanket Flower	1 gal.	1' H X 2' W
36	HE	Hemerocallis x 'Sherwood Cheer'	Sherwood Cheer Daylily	1 gal.	3' H X 3' W
70	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	1 gal.	3' H X 3' W
62	LS	Leucanthemum x superbum	Shasta Daisy	1 gal.	3' H X 2' W
20	PO	Physocarpus opulifolius 'Jefam' TM	Amber Jubilee Ninebark	5 gal.	6' H X 4' W
83	PM	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	5 gal.	3' H X 5' W
22	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	2' H X 8' W
50	RR	Rosa x 'Radtkopink' TM	Pink Double Knock Out Rose	5 gal.	4' H X 4' W
45	RF	Rudbeckia fulgida	Black-Eyed Susan	1 gal.	2' H X 2' W
41	SN	Spiraea nipponica 'Snowmound'	Snowmound Spirea	5 gal.	4' H X 4' W
17	VM	Vinca minor 'Bowles'	Bowles Periwinkle	1 gal.	.5' H X SPREADING

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www.breckonlanddesign.com Fax: 208-376-6528 Phone: 208-376-5153
6661 North Glenwood Street Garden City, Idaho 83714

STATE OF IDAHO JON FRITZ BRECKON LICENSED LANDSCAPE ARCHITECT LA-16536 2/11/2022

Revisions	Description	Date

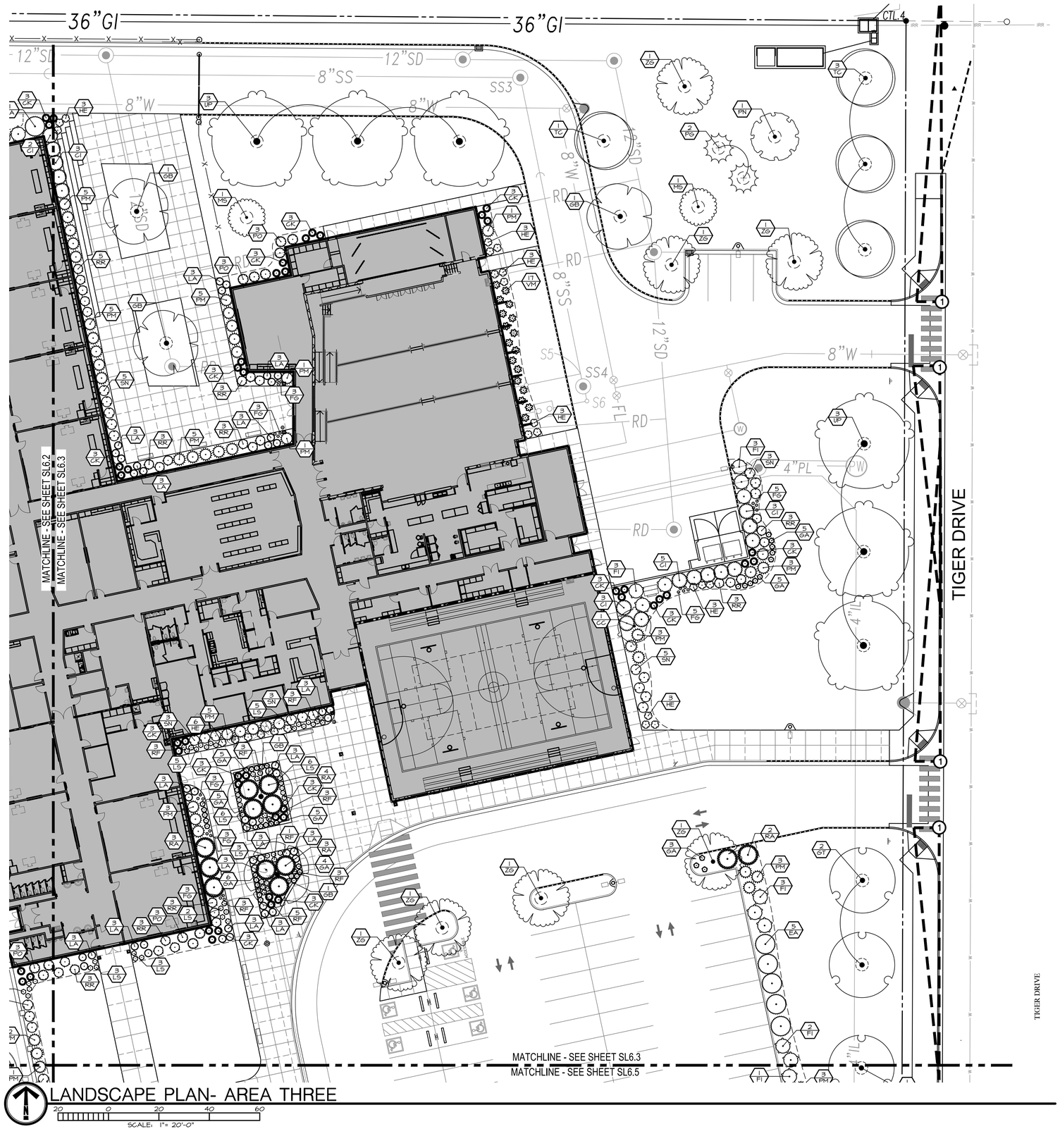
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SL6.2
LANDSCAPE PLAN- AREA TWO



LANDSCAPE PLAN- AREA THREE

20 0 20 40 60
SCALE: 1"= 20'-0"

KEY MAP

200 0 200 400 600
SCALE: 1"= 200'-0"

811
Know what's below. Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

LANDSCAPE REQUIREMENTS

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
TIGER DRIVE			
1 TREE / 40 LF.	615'	15	15
E AVENUE F.			
1 TREE / 40 LF.	919'	23	23
GLEN EAGLE DRIVE			
1 TREE / 40 LF.	300'	8	8
NORTH BUFFER			
1 TREE / 40 LF.	1094'	27	27
INTERIOR PARKING LOT			
1 TREE / ISLAND		24	19*
* 5 TREES NOT PROVIDED DUE TO CONFLICT WITH LIGHT POLES			
PARKING LOT PERIMETER			
VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

LANDSCAPE LEGEND

- PLANTS TO BE INSTALLED
- CUT EDGE AS DETAILED
- 6' CHAINLINK FENCE LOCATION
- 3' TUBE STEEL FENCE LOCATION
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK

CALLOUT LEGEND

① VISION TRIANGLE

PLANT SCHEDULE-BASE BID

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
9	AF	Acer x freemanii 'Sienna' TM	Sienna Glen Maple	2" Cal. B&B	50' H X 40' W
9	BN	Betula nigra	River Birch	2" Cal. B&B	45' H X 40' W
10	GB	Ginkgo biloba 'Autumn Gold' TM (Male only)	Autumn Gold Maidenhair Tree	2" Cal. B&B	45' H X 35' W
9	GT	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Honey Locust	2" Cal. B&B	45' H X 35' W
13	TC	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2" Cal. B&B	40' H X 30' W
8	UP	Ulmus americana 'Princeton'	Princeton American Elm	2" Cal. B&B	65' H X 50' W
22	ZG	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2" Cal. B&B	45' H X 30' W
CONIFEROUS TREES					
2	PG	Picea glauca 'Densata'	Black Hills White Spruce	6'-7' Ht. B&B	40' H X 15' W
3	PF	Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	6'-7' Ht. B&B	25' H X 15' W
4	PN	Pinus nigra	Austrian Pine	6'-7' Ht. B&B	40' H X 25' W
ORNAMENTAL TREES					
4	CC	Cercis canadensis	Eastern Redbud Multi-trunk	2" Cal. B&B	25' H X 20' W
6	MS	Malus x 'Spring Snow'	Spring Snow Crabapple	2" Cal. B&B	20' H X 20' W
10	PC	Pyrus calleryana 'Capital'	Capital Callery Pear	2" Cal. B&B	40' H X 15' W
SHRUBS/PERENNIALS/ORNAMENTAL GRASSES					
87	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	6' H X 3' W
37	CI	Cornus sericea 'Isanti'	Isanti Red Twig Dogwood	5 gal.	6' H X 6' W
36	EA	Evonymus alatus 'Coles Compact'	Coles Compact Burning Bush	5 gal.	8' H X 8' W
25	FG	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	1' H X 1' W
33	FI	Forsythia x intermedia 'Mindor' TM	Show Off Forsythia	5 gal.	6' H X 6' W
44	GA	Gaillardia x 'Arizona Sun'	Arizona Sun Blanket Flower	1 gal.	1' H X 2' W
36	HE	Hemerocallis x 'Sherwood Cheer'	Sherwood Cheer Daylily	1 gal.	3' H X 3' W
70	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	1 gal.	3' H X 3' W
62	LS	Leucanthemum x superbum	Shasta Daisy	1 gal.	3' H X 2' W
20	PO	Physocarpus opulifolius 'Jefam' TM	Amber Jubilee Ninebark	5 gal.	6' H X 4' W
83	PM	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	5 gal.	3' H X 5' W
22	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	2' H X 8' W
50	RR	Rosa x 'Radtkopink' TM	Pink Double Knock Out Rose	5 gal.	4' H X 4' W
45	RF	Rudbeckia fulgida	Black-Eyed Susan	1 gal.	2' H X 2' W
41	SN	Spiraea nipponica 'Snowmound'	Snowmound Spirea	5 gal.	4' H X 4' W
17	VM	Vinca minor 'Bowles'	Bowles Periwinkle	1 gal.	.5' H X SPREADING

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Garden City, Idaho 83714

Jon Fritz Breckon
LA-16536
2/11/2022
Jon Breckon

Revisions		
#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

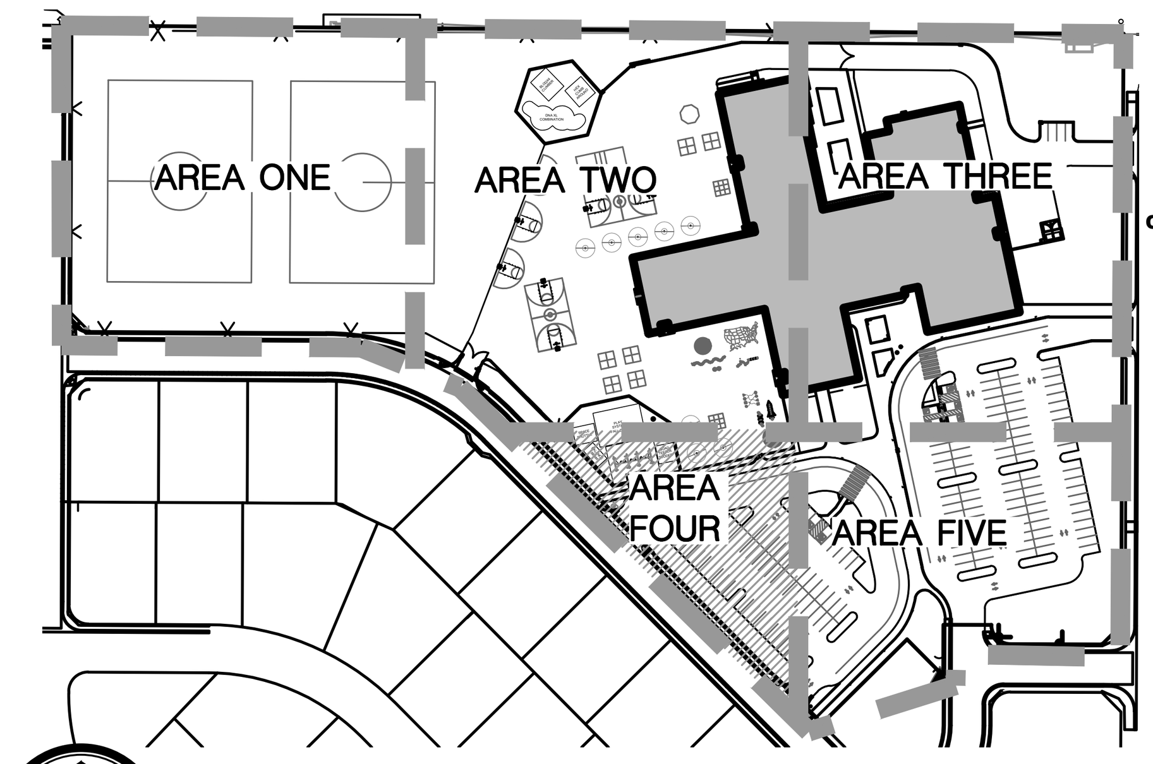
BID SET

DRAWING NO.:
SL6.3
LANDSCAPE PLAN- AREA THREE

S:_projects\2021\21114 jerome elementary\CAD\sheets\SL6.0 LANDSCAPE PLAN.dwg plotted by: cvalle on Fri, February 18 2022 at 09:46 AM

LANDSCAPE PLAN- AREA FOUR

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

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LANDSCAPE REQUIREMENTS

TIGER DRIVE

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	615'	15	15

E AVENUE F.

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	919'	23	23

GLEN EAGLE DRIVE

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	300'	8	8

NORTH BUFFER

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	1094'	27	27

INTERIOR PARKING LOT

Requirements:	TREES REQ'D	TREES PROVIDED
1 TREE / ISLAND	24	19*

* 5 TREES NOT PROVIDED DUE TO CONFLICT WITH LIGHT POLES

PARKING LOT PERIMETER

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

LANDSCAPE LEGEND

- PLANTS TO BE INSTALLED
- CUT EDGE AS DETAILED
- 6' CHAINLINK FENCE LOCATION
- 3' TUBE STEEL FENCE LOCATION
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK

CALLOUT LEGEND

1 VISION TRIANGLE

PLANT SCHEDULE-BASE BID

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
9	AF	Acer x freemanii 'Sienna' TM	Sienna Glen Maple	2" Cal. B&B	50' H X 40' W
9	BN	Betula nigra	River Birch	2" Cal. B&B	45' H X 40' W
10	GB	Ginkgo biloba 'Autumn Gold' TM (Male only)	Autumn Gold Maidenhair Tree	2" Cal. B&B	45' H X 35' W
9	GT	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Honey Locust	2" Cal. B&B	45' H X 35' W
13	TC	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2" Cal. B&B	40' H X 30' W
8	UP	Ulmus americana 'Princeton'	Princeton American Elm	2" Cal. B&B	65' H X 50' W
22	ZG	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2" Cal. B&B	45' H X 30' W
CONIFEROUS TREES					
2	PG	Picea glauca 'Densata'	Black Hills White Spruce	6'-7' Ht. B&B	40' H X 15' W
3	PF	Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	6'-7' Ht. B&B	25' H X 15' W
4	PN	Pinus nigra	Austrian Pine	6'-7' Ht. B&B	40' H X 25' W
ORNAMENTAL TREES					
4	CC	Cercis canadensis	Eastern Redbud Multi-trunk	2" Cal. B&B	25' H X 20' W
6	MS	Malus x 'Spring Snow'	Spring Snow Crabapple	2" Cal. B&B	20' H X 20' W
10	PC	Pyrus calleryana 'Capital'	Capital Callery Pear	2" Cal. B&B	40' H X 15' W
SHRUBS/PERENNIALS/ORNAMENTAL GRASSES					
87	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	6' H X 3' W
37	CI	Cornus sericea 'Isanti'	Isanti Red Twig Dogwood	5 gal.	6' H X 6' W
36	EA	Euonymus alatus 'Coles Compact'	Coles Compact Burning Bush	5 gal.	8' H X 8' W
25	FG	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	1' H X 1' W
33	FI	Forsythia x intermedia 'Mindor' TM	Show Off Forsythia	5 gal.	6' H X 6' W
44	GA	Gaillardia x 'Arizona Sun'	Arizona Sun Blanket Flower	1 gal.	1' H X 2' W
36	HE	Hemerocallis x 'Sherwood Cheer'	Sherwood Cheer Daylily	1 gal.	3' H X 3' W
70	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	1 gal.	3' H X 3' W
62	LS	Leucanthemum x superbum	Shasta Daisy	1 gal.	3' H X 2' W
20	PO	Physocarpus opulifolius 'Jefam' TM	Amber Jubilee Ninebark	5 gal.	6' H X 4' W
83	PM	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	5 gal.	3' H X 5' W
22	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	2' H X 8' W
50	RR	Rosa x 'Radtkopink' TM	Pink Double Knock Out Rose	5 gal.	4' H X 4' W
45	RF	Rudbeckia fulgida	Black-Eyed Susan	1 gal.	2' H X 2' W
41	SN	Spiraea nipponica 'Snowmound'	Snowmound Spirea	5 gal.	4' H X 4' W
17	VM	Vinca minor 'Bowles'	Bowles Periwinkle	1 gal.	.5' H X SPREADING

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Phone: 208-376-5153
6661 North Glenwood Street
Garden City, Idaho 83714

STATE OF IDAHO
JON FRITZ BRECKON
LICENSED LANDSCAPE ARCHITECT
LA-16536
2/11/2022

Revisions	
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

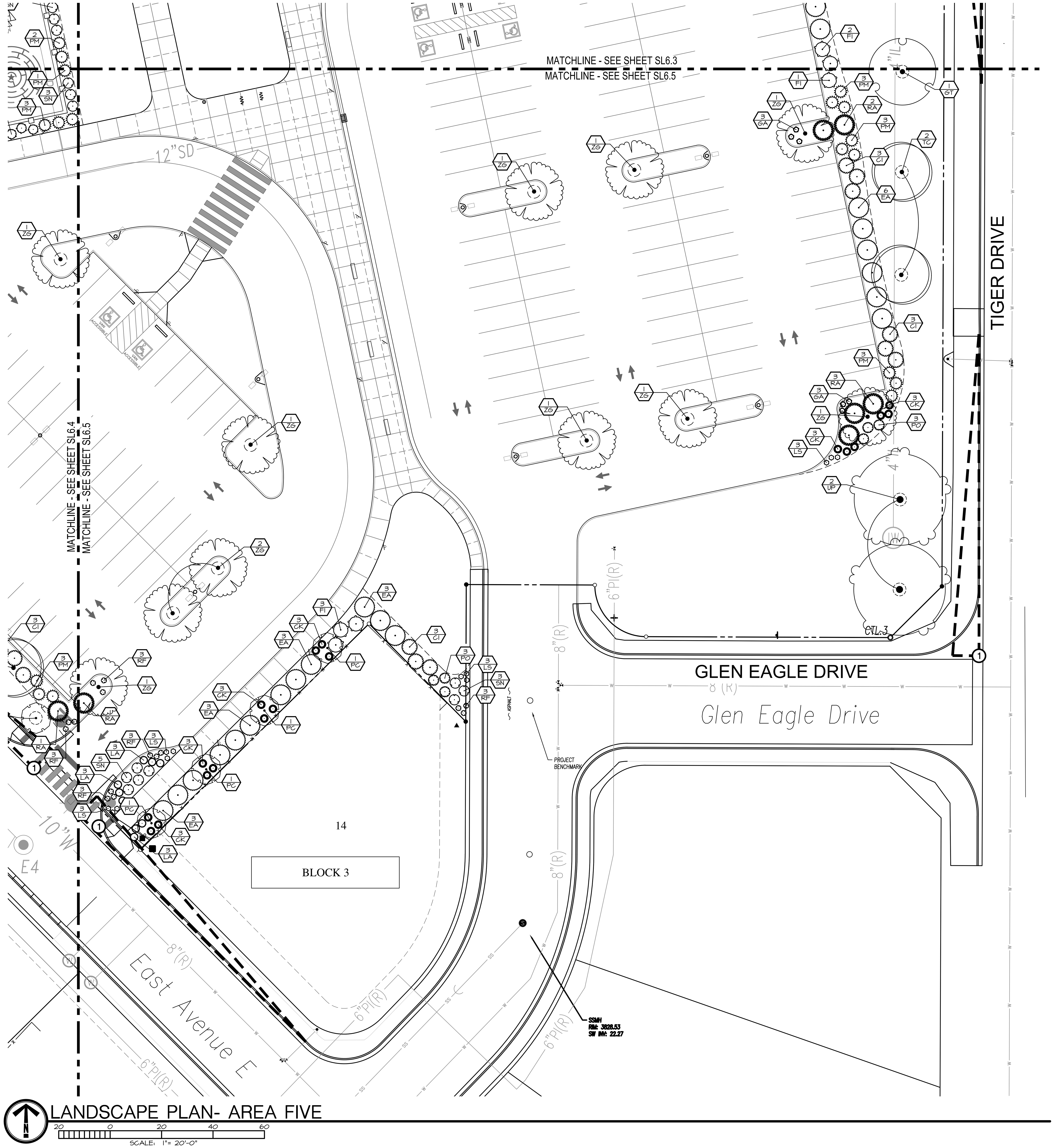
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:

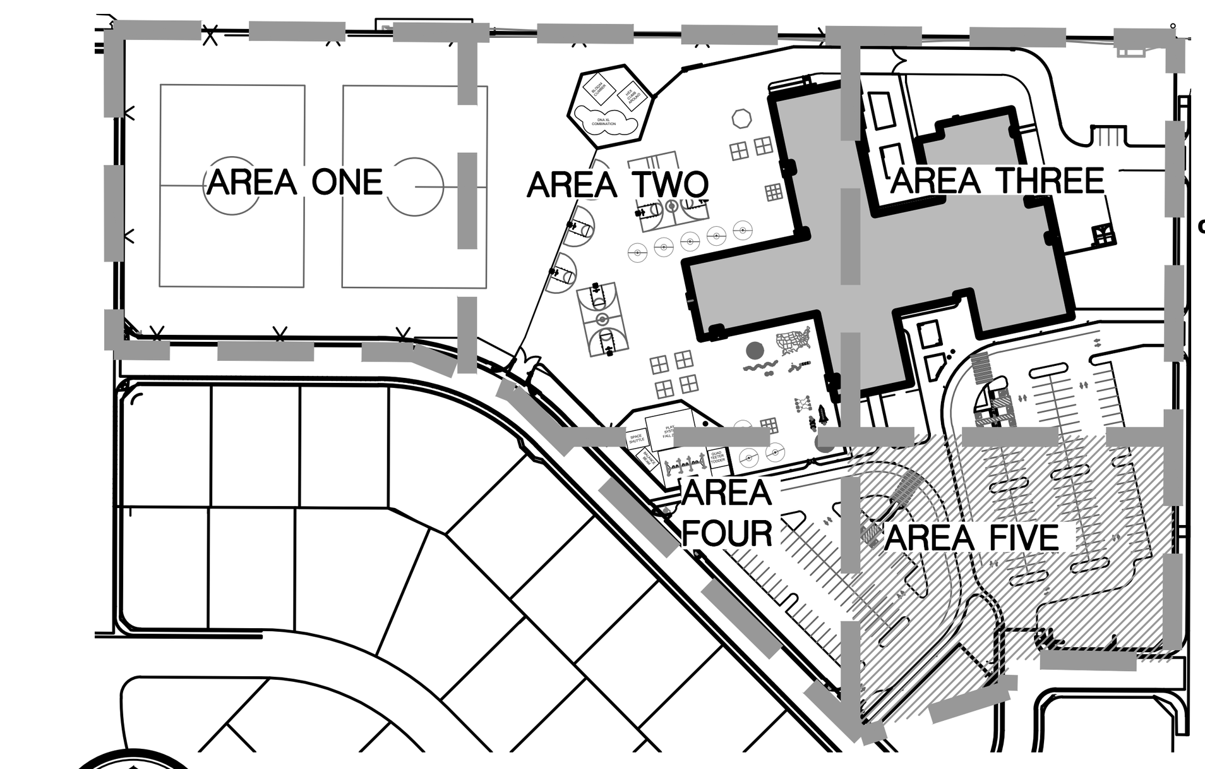
SL6.4

LANDSCAPE PLAN- AREA FOUR



LANDSCAPE PLAN- AREA FIVE

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

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LANDSCAPE REQUIREMENTS

Area	Requirements	LENGTH	TREES REQ'D	TREES PROVIDED
TIGER DRIVE	1 TREE / 40 LF.	615'	15	15
E AVENUE F.	1 TREE / 40 LF.	919'	23	23
GLEN EAGLE DRIVE	1 TREE / 40 LF.	300'	8	8
NORTH BUFFER	1 TREE / 40 LF.	1094'	27	27
INTERIOR PARKING LOT	1 TREE / ISLAND		24	19*
PARKING LOT PERIMETER	VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

* 5 TREES NOT PROVIDED DUE TO CONFLICT WITH LIGHT POLES

LANDSCAPE LEGEND

- PLANTS TO BE INSTALLED
- CUT EDGE AS DETAILED
- 6' CHAINLINK FENCE LOCATION
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CALLOUT LEGEND

(1) VISION TRIANGLE

PLANT SCHEDULE-BASE BID

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
9	AF	Acer x freemanii 'Sienna' TM	Sienna Glen Maple	2" Cal. B&B	50' H X 40' W
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13	TC	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2" Cal. B&B	40' H X 30' W
8	UP	Ulmus americana 'Princeton'	Princeton American Elm	2" Cal. B&B	65' H X 50' W
22	ZG	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2" Cal. B&B	45' H X 30' W
CONIFEROUS TREES					
2	PG	Picea glauca 'Densata'	Black Hills White Spruce	6'-7' Ht. B&B	40' H X 15' W
3	PF	Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	6'-7' Ht. B&B	25' H X 15' W
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70	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	1 gal.	3' H X 3' W
62	LS	Leucanthemum x superbum	Shasta Daisy	1 gal.	3' H X 2' W
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83	PM	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	5 gal.	3' H X 5' W
22	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	2' H X 8' W
50	RR	Rosa x 'Radtkopink' TM	Pink Double Knock Out Rose	5 gal.	4' H X 4' W
45	RF	Rudbeckia fulgida	Black-Eyed Susan	1 gal.	2' H X 2' W
41	SN	Spiraea nipponica 'Snowmound'	Snowmound Spirea	5 gal.	4' H X 4' W
17	VM	Vinca minor 'Bowles'	Bowles Periwinkle	1 gal.	.5' H X SPREADING

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6661 North Glenwood Street Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LICENSED LANDSCAPE ARCHITECT — LA-16536 — 2/11/2022

Revisions	
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

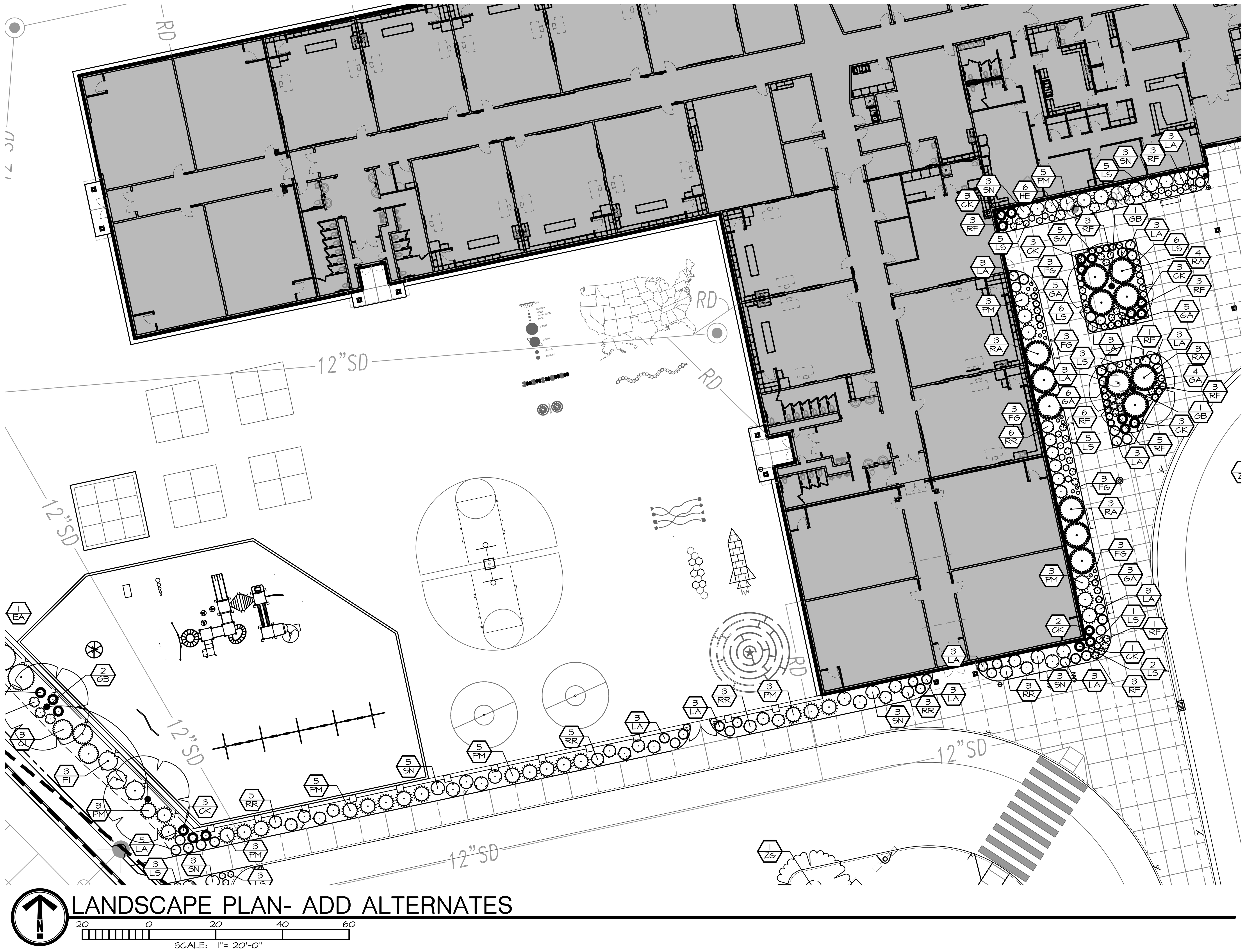
BID SET

DRAWING NO.:

SL6.5

LANDSCAPE PLAN- AREA FIVE

S:_projects\2021\21114 jerome elementary\CAD\sheets\SL6.0 LANDSCAPE PLAN.dwg plotted by: cvalle on Fri, February 18 2022 at 09:49 AM



LANDSCAPE PLAN- ADD ALTERNATES

SCALE: 1"= 20'-0"

LANDSCAPE REQUIREMENTS

TIGER DRIVE

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	615'	15	15

E AVENUE F.

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	919'	23	23

GLEN EAGLE DRIVE

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	300'	8	8

NORTH BUFFER

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
1 TREE / 40 LF.	1094'	27	27

INTERIOR PARKING LOT

Requirements:	TREES REQ'D	TREES PROVIDED
1 TREE / ISLAND	24	19*

* 5 TREES NOT PROVIDED DUE TO CONFLICT WITH LIGHT POLES

PARKING LOT PERIMETER

Requirements:	LENGTH	TREES REQ'D	TREES PROVIDED
VEHICLE USE AREA ADJACENT TO SIDE OR REAR LOT LINE 1 TREE / 40 LF.	537'	13	13

LANDSCAPE LEGEND

- PLANTS TO BE INSTALLED
- CUT EDGE AS DETAILED
- 6' CHAINLINK FENCE LOCATION
- 3' TUBE STEEL FENCE LOCATION
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK

CALLOUT LEGEND

(1) VISION TRIANGLE

PLANT SCHEDULE-ALTERNATES

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
9	AF	Acer x freemanii 'Sienna' TM	Sienna Glen Maple	2" Cal. B&B	50' H X 40' W
9	BN	Betula nigra	River Birch	2" Cal. B&B	45' H X 40' W
10	GB	Ginkgo biloba 'Autumn Gold' TM (Male only)	Autumn Gold Maidenhair Tree	2" Cal. B&B	45' H X 35' W
9	GT	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Honey Locust	2" Cal. B&B	45' H X 35' W
13	TC	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2" Cal. B&B	40' H X 30' W
8	UP	Ulmus americana 'Princeton'	Princeton American Elm	2" Cal. B&B	65' H X 50' W
22	ZG	Zelkova serrata 'Green Vase'	Green Vase Sawleaf Zelkova	2" Cal. B&B	45' H X 30' W
CONIFEROUS TREES					
2	PG	Picea glauca 'Densata'	Black Hills White Spruce	6'-7' Ht. B&B	40' H X 15' W
3	PF	Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	6'-7' Ht. B&B	25' H X 15' W
4	PN	Pinus nigra	Austrian Pine	6'-7' Ht. B&B	40' H X 25' W
ORNAMENTAL TREES					
4	CC	Cercis canadensis	Eastern Redbud Multi-trunk	2" Cal. B&B	25' H X 20' W
6	MS	Malus x 'Spring Snow'	Spring Snow Crabapple	2" Cal. B&B	20' H X 20' W
10	PC	Pyrus calleryana 'Capital'	Capital Callery Pear	2" Cal. B&B	40' H X 15' W
SHRUBS/PERENNIALS/ORNAMENTAL GRASSES					
84	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	6' H X 3' W
37	CI	Cornus sericea 'Isanti'	Isanti Red Twig Dogwood	5 gal.	6' H X 6' W
36	EA	Evonymus alatus 'Coles Compact'	Coles Compact Burning Bush	5 gal.	8' H X 8' W
31	FG	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	1' H X 1' W
33	FI	Forsythia x intermedia 'Mindor' TM	Show Off Forsythia	5 gal.	6' H X 6' W
47	GA	Gaillardia x 'Arizona Sun'	Arizona Sun Blanket Flower	1 gal.	1' H X 2' W
36	HE	Hemerocallis x 'Sherwood Cheer'	Sherwood Cheer Daylily	1 gal.	3' H X 3' W
73	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	1 gal.	3' H X 3' W
57	LS	Leucanthemum x superbum	Shasta Daisy	1 gal.	3' H X 2' W
14	PO	Physocarpus opulifolius 'Jefam' TM	Amber Jubilee Ninebark	5 gal.	6' H X 4' W
83	PM	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	5 gal.	3' H X 5' W
25	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	2' H X 8' W
53	RR	Rosa x 'Radtkopink' TM	Pink Double Knock Out Rose	5 gal.	4' H X 4' W
52	RF	Rudbeckia fulgida	Black-Eyed Susan	1 gal.	2' H X 2' W
41	SN	Spiraea nipponica 'Snowmound'	Snowmound Spirea	5 gal.	4' H X 4' W
17	VM	Vinca minor 'Bowles'	Bowles Periwinkle	1 gal.	.5' H X SPREADING

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
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208.336.3443

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6661 North Glenwood Street, Garden City, Idaho 83714

STATE OF IDAHO
JON FRITZ BRECKON
LA-16836
2/11/2022
LICENSED LANDSCAPE ARCHITECT

Revisions
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SL6.6
LANDSCAPE PLAN- ADD ALTERNATES

LANDSCAPE NOTES:

1. CONTRACTOR SHALL REPORT TO LANDSCAPE ARCHITECT ALL CONDITIONS WHICH IMPAIR AND/OR PREVENT THE PROPER EXECUTION OF THIS WORK, PRIOR TO BEGINNING WORK.
2. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT THE LANDSCAPE ARCHITECT'S PRIOR WRITTEN APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CAN NOT BE OBTAINED.
3. COORDINATE ALL WORK WITH ALL OTHER SITE RELATED DEVELOPMENT DRAWINGS.
4. COORDINATE WORK SCHEDULE AND OBSERVATIONS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION START-UP.
5. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS.
6. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN NURSERYMAN STANDARDS FOR TYPE AND SIZE SHOWN. PLANTS WILL BE REJECTED IF NOT IN A SOUND AND HEALTHY CONDITION.
7. IN THE EVENT OF A PLANT COUNT DISCREPANCY, PLANT SYMBOLS SHALL OVERRIDE SCHEDULE QUANTITIES AND CALL OUT SYMBOL NUMBERS.
8. ALL PLANTING BEDS SHALL BE COVERED WITH A MINIMUM OF 3" DEPTH OF (1/2" MINUS) BLACK CINDER ROCK MULCH. SUBMIT SAMPLE FOR APPROVAL.
9. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE BY THE OWNER. REPLACE ALL PLANT MATERIAL FOUND DEAD OR NOT IN A HEALTHY CONDITION IMMEDIATELY WITH THE SAME SIZE AND SPECIES AT NO COST TO THE OWNER.
10. FINISH GRADES SHALL PROVIDE A SMOOTH TRANSITION WITH ADJACENT SURFACES AND ENSURE POSITIVE DRAINAGE IN ACCORDANCE WITH THE SITE GRADING PLAN.
11. AMEND EXISTING APPROVED TOPSOIL AT A RATIO OF THREE CUBIC YARDS OF APPROVED COMPOST PER 1000 SQUARE FEET. ROTO-TILL ORGANIC MATTER A MINIMUM OF 6 INCHES INTO TOPSOIL.
12. FERTILIZE ALL TREES AND SHRUBS WITH 'AGRIFORM' PLANTING TABLETS. QUANTITY PER MANUFACTURER'S RECOMMENDATIONS.
13. ALL PLANTING BEDS SHALL HAVE A MINIMUM 18" DEPTH OF TOPSOIL. LAWN AREAS SHALL HAVE A MINIMUM 12" DEPTH OF TOPSOIL. SPREAD, COMPACT, AND FINE GRADE TOPSOIL TO A SMOOTH AND UNIFORM GRADE 3" BELOW ADJACENT SURFACES OF PLANTER BED AREAS, 1-1/2" BELOW ADJACENT SURFACES OF TURF SOD AREAS, AND 1" BELOW ADJACENT SURFACES OF TURF SEED AREAS.
14. REUSE EXISTING TOPSOIL STOCKPILED ON THE SITE. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. VERIFY SUITABILITY AND CONDITION OF TOPSOIL AS A GROWING MEDIUM. PERFORM SOIL TEST/ ANALYSIS AND PROVIDE ADDITIONAL AMENDMENT AS DETERMINED BY SOIL TESTS. TOPSOIL SHALL BE A LOOSE, FRIABLE, SANDY LOAM, CLEAN AND FREE OF TOXIC MATERIALS, NOXIOUS WEEDS, WEED SEEDS, ROCKS, GRASS OR OTHER FOREIGN MATERIAL AND A HAVE A PH OF 5.5 TO 7.0. IF ONSITE TOPSOIL DOES NOT MEET THESE MINIMUM STANDARDS, CONTRACTOR IS RESPONSIBLE TO EITHER:
   A) PROVIDE APPROVED IMPORTED TOPSOIL, OR
   B) IMPROVE ON-SITE TOPSOIL WITH METHODS APPROVED BY THE LANDSCAPE ARCHITECT.
15. IF IMPORTED TOPSOIL FROM OFF-SITE SOURCES IS REQUIRED, ENSURE IT IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
   A) OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THOSE FOUND ON THE PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT A DEPTH OF NOT LESS THAN 4 INCHES.
   B) REPRESENTATIVE SAMPLES SHALL BE TESTED FOR ACIDITY, FERTILITY, TOXICITY, AND GENERAL TEXTURE BY A RECOGNIZED COMMERCIAL OR GOVERNMENT AGENCY AND COPIES OF THE TESTING AGENCY'S FINDINGS AND RECOMMENDATIONS SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE BY THE CONTRACTOR. NO TOPSOIL SHALL BE DELIVERED IN A FROZEN OR MUDDY CONDITION. ACIDITY/ALKALINITY RANGE - PH. 5.5 TO 7.6.
16. IMMEDIATELY CLEAN UP ANY TOPSOIL OR OTHER DEBRIS ON THE SITE CREATED FROM LANDSCAPE OPERATIONS AND DISPOSE OF PROPERLY OFF SITE.
17. TREES SHALL NOT BE PLANTED WITHIN THE 10'-0" CLEAR ZONE OF ALL A.C.H.D. STORM DRAIN PIPE, STRUCTURES, OR FACILITIES. TREES SHALL NOT BE PLANTED WITHIN 5'-0" OF AN A.C.H.D. SIDEWALK.
18. ANY PERENNIAL TREES OR PLANTS THAT WILL EXTEND ROOTS DEEPER THAN 18" SHALL BE PROHIBITED OVER ACHD UNDERGROUND SEEPAGE BEDS, INFILTRATION FACILITIES OR PIPING SYSTEMS.
19. SEEPAGE BEDS AND OTHER STORM DRAINAGE FACILITIES MUST BE PROTECTED FROM ANY AND ALL CONTAMINATION DURING THE CONSTRUCTION AND INSTALLATION OF THE LANDSCAPE IRRIGATION SYSTEM.
20. IN THE EVENT OF A DISCREPANCY, NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY.

LANDSCAPE AREA PREPARATION NOTES:

1. LIMIT TURF SUBGRADE PREPARATION TO AREAS TO BE PLANTED.
2. NEWLY GRADED SUBGRADES: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
   A. SPREAD PLANTING SOIL TO A DEPTH OF 12 INCHES IN TURF AREAS AND 18 INCHES AT SHRUB BED AREAS BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
   B. SPREAD PLANTING SOIL OVER LOOSENED SUBGRADE.
   C. REDUCE ELEVATION OF PLANTING SOIL TO ALLOW FOR SOIL THICKNESS OF SOD OR SEED.
3. UNCHANGED SUBGRADES: IF TURF IS TO BE PLANTED IN AREAS UNALTERED OR UNDISTURBED BY EXCAVATING, GRADING, OR SURFACE-SOIL STRIPPING OPERATIONS, PREPARE SURFACE SOIL AS FOLLOWS:
   A. REMOVE EXISTING GRASS, VEGETATION, AND TURF. DO NOT MIX INTO SURFACE SOIL.
   B. LOOSEN SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES. PROVIDE WEED ABATEMENT PROCEDURE. APPLY SOIL AMENDMENTS AND FERTILIZERS ACCORDING TO PLANTING SOIL MIX PROPORTIONS AND MIX THOROUGHLY INTO TOP 6 INCHES OF SOIL. TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE.
   C. APPLY SOIL AMENDMENTS DIRECTLY TO SURFACE SOIL BEFORE LOOSENING.
   D. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, TRASH, AND OTHER EXTRANEOUS MATTER.
   E. LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION, AND TURF, OFF OWNER'S PROPERTY.
4. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
5. MOISTEN PREPARED AREA BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
6. BEFORE PLANTING, OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
7. DO NOT SOW IMMEDIATELY FOLLOWING RAIN, OR WHEN GROUND IS TOO DRY. TEMPERATURE SHALL BE BETWEEN 55 F AND 45 F FOR A 24 HOUR PERIOD. WIND SHALL BE LESS THAN 5 MPH.

TURF AREA PREPARATION NOTES:

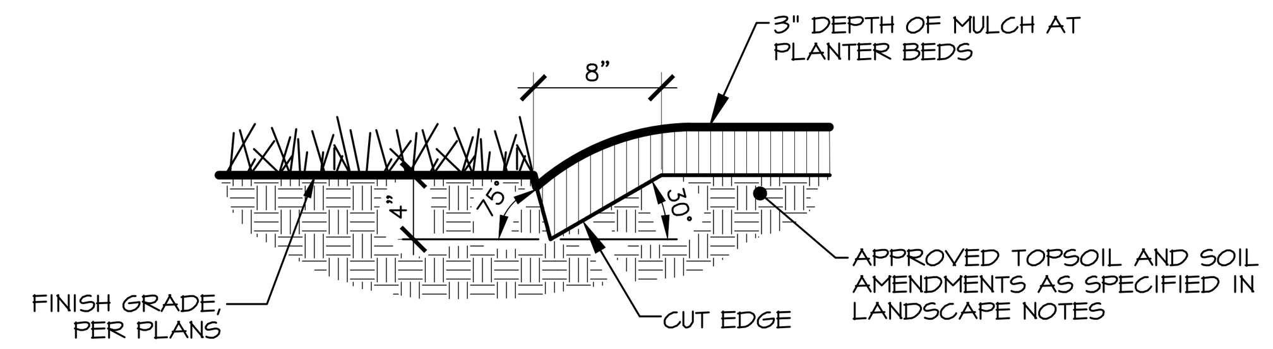
1. LIMIT TURF SUBGRADE PREPARATION TO AREAS TO BE PLANTED.
2. NEWLY GRADED SUBGRADES: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
3. SPREAD PLANTING SOIL OVER LOOSENED SUBGRADE.
4. REDUCE ELEVATION OF PLANTING SOIL TO ALLOW FOR SOIL THICKNESS OF SOD.
5. UNCHANGED SUBGRADES: IF TURF IS TO BE PLANTED IN AREAS UNALTERED OR UNDISTURBED BY EXCAVATING, GRADING, OR SURFACE-SOIL STRIPPING OPERATIONS, PREPARE SURFACE SOIL AS FOLLOWS:
   A. REMOVE EXISTING GRASS, VEGETATION, AND TURF. DO NOT MIX INTO SURFACE SOIL.
   B. LOOSEN SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS ACCORDING TO PLANTING SOIL MIX PROPORTIONS AND MIX THOROUGHLY INTO TOP 6 INCHES OF SOIL. TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE.
6. APPLY SOIL AMENDMENTS DIRECTLY TO SURFACE SOIL BEFORE LOOSENING.
   A. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, TRASH, AND OTHER EXTRANEOUS MATTER.
   B. LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION, AND TURF, OFF OWNER'S PROPERTY.
7. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
8. MOISTEN PREPARED AREA BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
9. BEFORE PLANTING, OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.

WEED ABATEMENT NOTES:

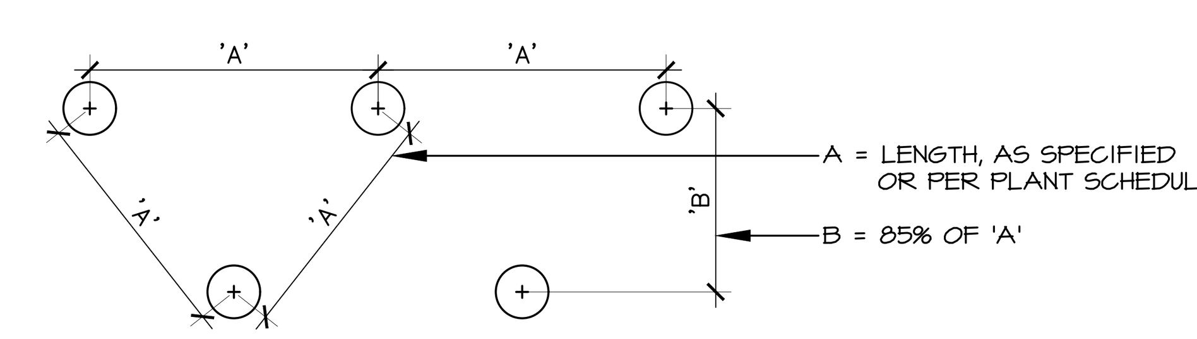
1. ALL AREAS TO BE PLANTED OR HYDROSEEDED SHALL HAVE WEED ABATEMENT OPERATIONS PERFORMED ON THEM PRIOR TO PLANTING OR HYDROSEEDING.
2. CONTRACTOR SHALL SPRAY ALL EXPOSED WEEDS WITH ROUND-UP® (CONTACT HERBICIDE) OR APPROVED EQUAL.
3. DO NOT WATER FOR AT LEAST SEVEN (7) DAYS. REMOVE EXPOSED WEEDS FROM THE SITE.
4. CONTRACTOR SHALL OPERATE THE AUTOMATIC IRRIGATION SYSTEM FOR A PERIOD OF FOURTEEN (14) DAYS. AT CONCLUSION OF THIS WATERING PERIOD, DISCONTINUE WATERING FOR THREE TO FIVE (3-5) DAYS.
5. APPLY SECOND APPLICATION OF ROUND-UP® TO ALL EXPOSED WEEDS. APPLY IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. DO NOT WATER FOR AT LEAST SEVEN (7) DAYS. REMOVE WEEDS FROM THE SITE.
6. IF ANY EVIDENCE OF WEED GERMINATION EXISTS AFTER TWO (2) APPLICATIONS, CONTRACTOR SHALL BE DIRECTED TO PERFORM A THIRD APPLICATION.
7. AT THE TIME OF PLANTING AND HYDROSEEDING, ALL PLANTING AREAS SHALL BE WEED FREE.

TOPSOIL NOTES

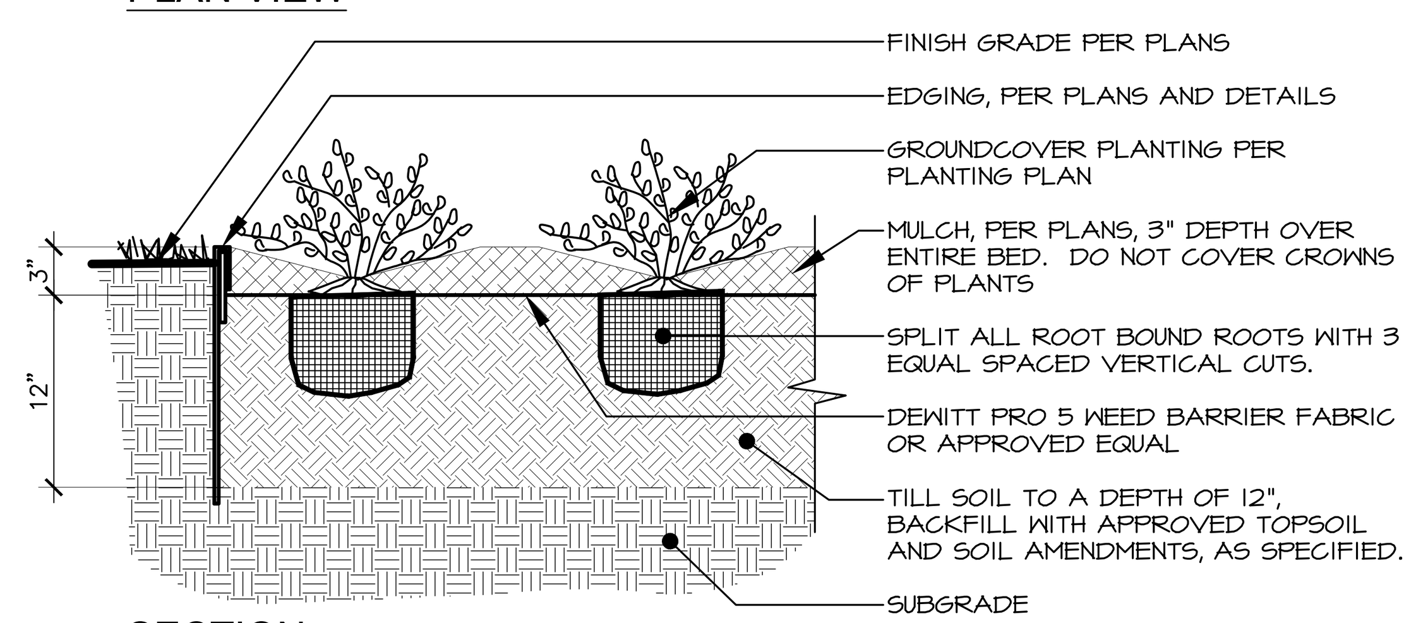
1. TOPSOIL REQUIREMENTS: ASTM D 5268, PH RANGE OF 5.5 TO 7, FOUR PERCENT ORGANIC MATERIAL MINIMUM, FREE OF STONES 1/2 INCH OR LARGER IN ANY DIMENSION, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
2. TOPSOIL SOURCE: STRIP EXISTING TOPSOIL FROM ALL AREAS OF THE SITE TO BE DISTURBED. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, ORGANIC MATTER LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED TO ACHIEVE THIS REQUIREMENT.
3. REPRESENTATIVE SAMPLES SHALL BE TESTED FOR ACIDITY, FERTILITY AND GENERAL TEXTURE BY A RECOGNIZED COMMERCIAL OR GOVERNMENT AGENCY AND COPIES OF THE TESTING AGENCY'S FINDINGS AND RECOMMENDATIONS SHALL BE FURNISHED TO THE ARCHITECTS REPRESENTATIVE BY THE CONTRACTOR. ALL TOPSOIL SHALL BE AMENDED TO ACHIEVE SPECIFIED PH AND ORGANIC REQUIREMENTS. RE-TEST TOPSOIL PRIOR TO FINAL COMPLETION TO ENSURE REQUIREMENTS HAVE BEEN MET. NO TOPSOIL SHALL BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION.
4. PLACE TOPSOIL IN AREAS WHERE REQUIRED TO OBTAIN THICKNESS AS SCHEDULED. PLACE TOPSOIL DURING DRY WEATHER. PROVIDE ADDITIONAL IMPORTED TOPSOIL REQUIRED TO BRING SURFACE TO PROPOSED FINISH GRADE, AS REQUIRED.
5. COMPACTED TOPSOIL THICKNESS AT THE FOLLOWING AREAS:
   A. LAWN AREAS: 4 INCHES MINIMUM OR AS NECESSARY TO ACHIEVE EVEN GRADES WITH SURROUNDING LAWN AREAS.
   B. PLANTER BEDS: 18 INCHES MINIMUM
6. FINE GRADE TOPSOIL TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. FINISH GRADE OF TOPSOIL SHALL BE 2" BELOW FINISH GRADE OF PAVEMENTS AREAS FOR SOD AND 1" FOR SEED.
7. TOPSOIL STOCKPILE LOCATIONS TO BE COVERED COORDINATE WITH EROSION AND SEDIMENT CONTROL PLAN.
8. ALL GRAVEL, SUBBASE, AND OTHER IMPORTED FILL MATERIALS OTHER THAN TOPSOIL SHALL ONLY BE STOCKPILED IN PROPOSED IMPERVIOUS AREAS. NO GRAVEL OR ROCK MATERIALS SHALL BE STOCKPILED OR TEMPORARILY PLACED IN PROPOSED LANDSCAPE AREAS TO PREVENT LANDSCAPE AREAS FROM BEING CONTAMINATED WITH ROCK MATERIALS. CONTRACTOR SHALL SUBMIT A DETAILED STOCKPILE PLAN TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ANY EARTHWORK OPERATIONS.



1 PLANTER BED CUT EDGE
(TYPICAL AT TREES IN TURF AREAS)
NOT TO SCALE



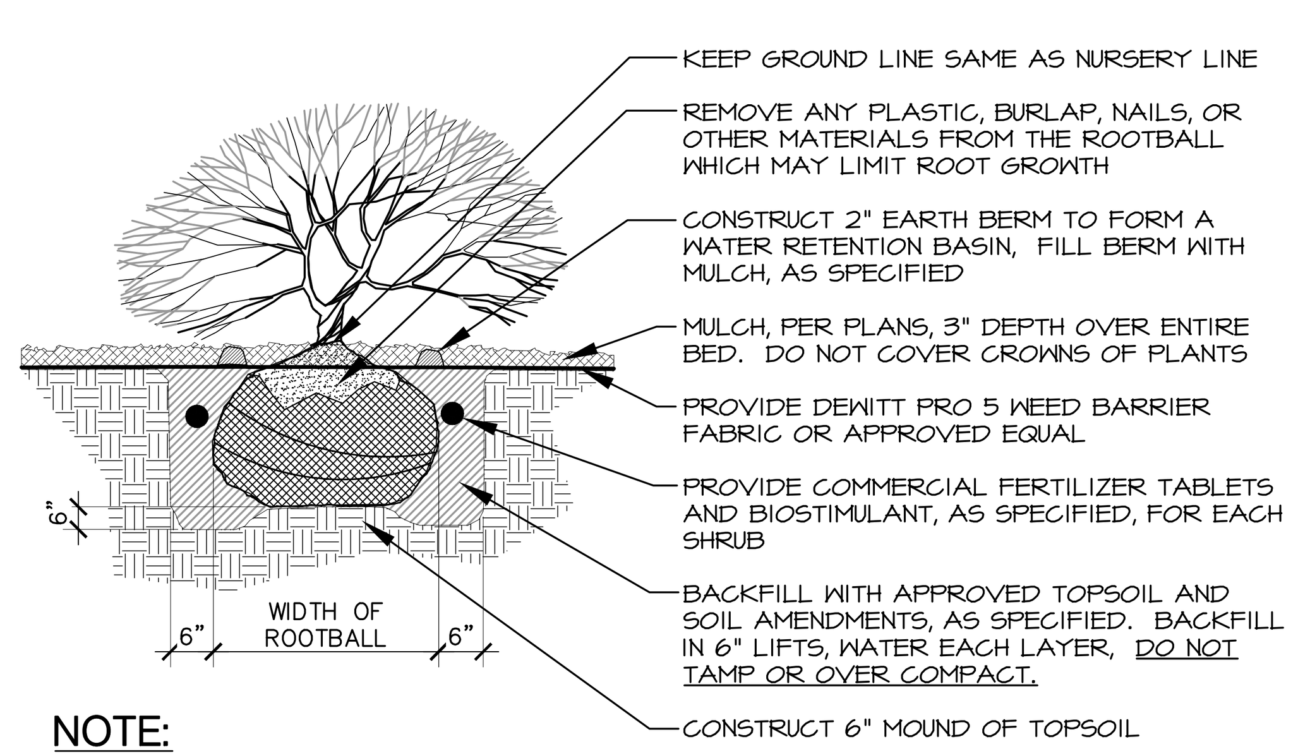
PLAN VIEW



SECTION

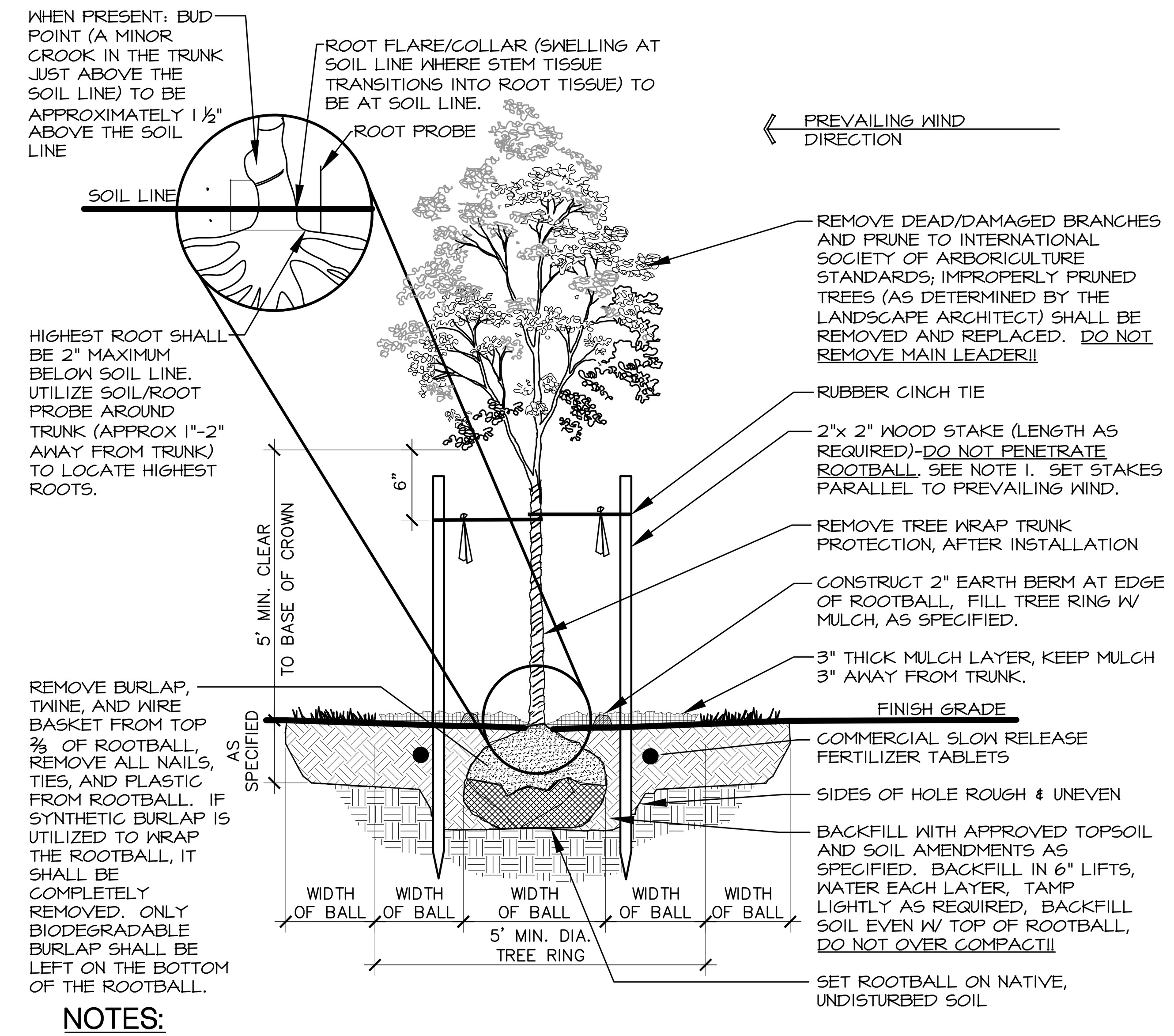
NOTES:
1. ALL GROUNDCOVER PLANTS TO BE PLANTED ON CENTER AND IN A TRIANGULAR PATTERN.
2. APPLY SPECIFIED PRE-EMERGENT PER MANUFACTURER'S RECOMMENDATIONS TO ALL GROUNDCOVER BEDS.

2 PERENNIAL & GROUNDCOVER PLANTING
Scale: 1"= 1'-0"



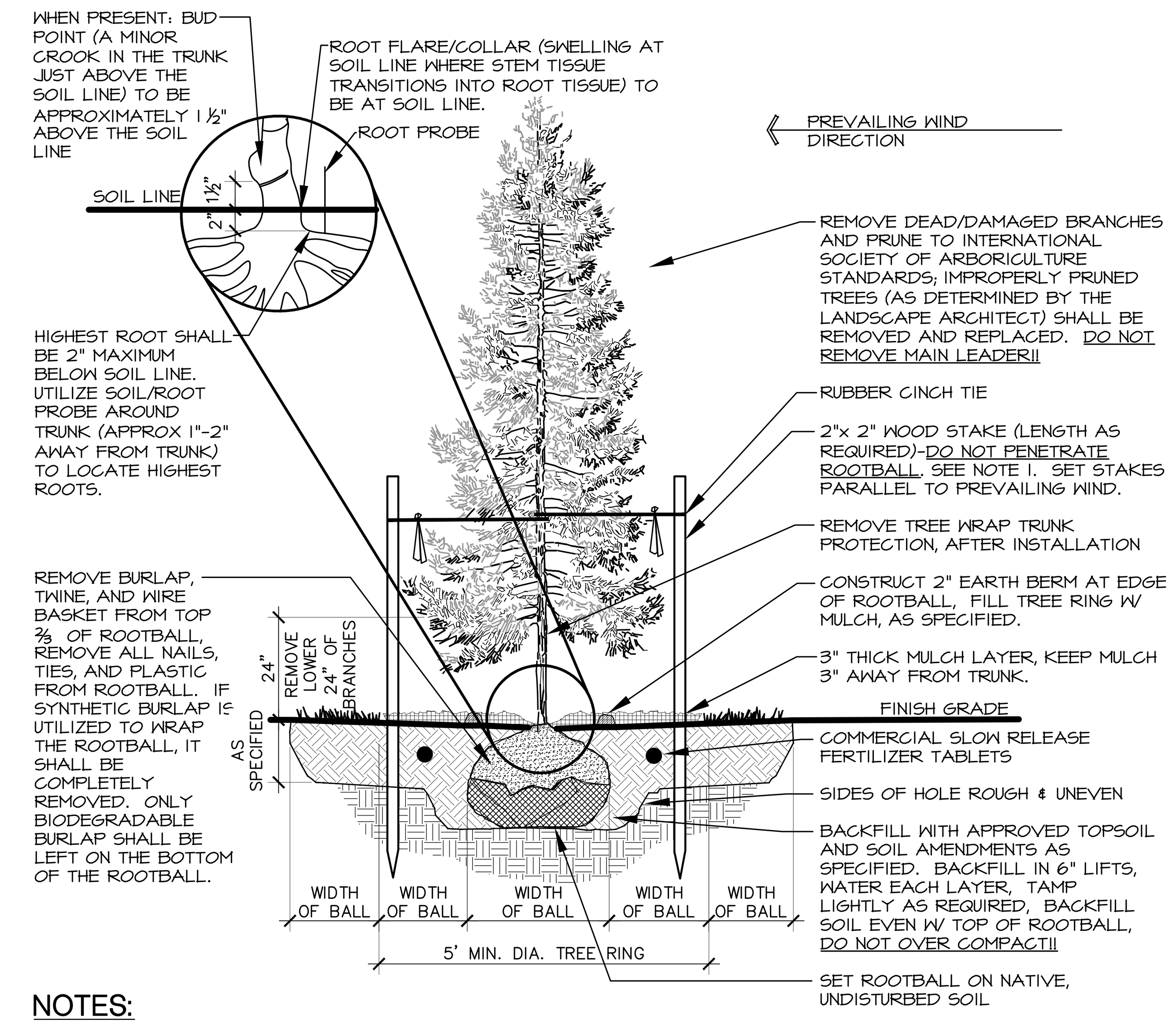
NOTE:
1. WATER SHRUB TWICE WITHIN FIRST 24 HOURS.
2. APPLY SPECIFIED PRE-EMERGENT PER MANUFACTURER'S RECOMMENDATIONS TO ALL GROUNDCOVER BEDS.

3 SHRUB PLANTING
NOT TO SCALE



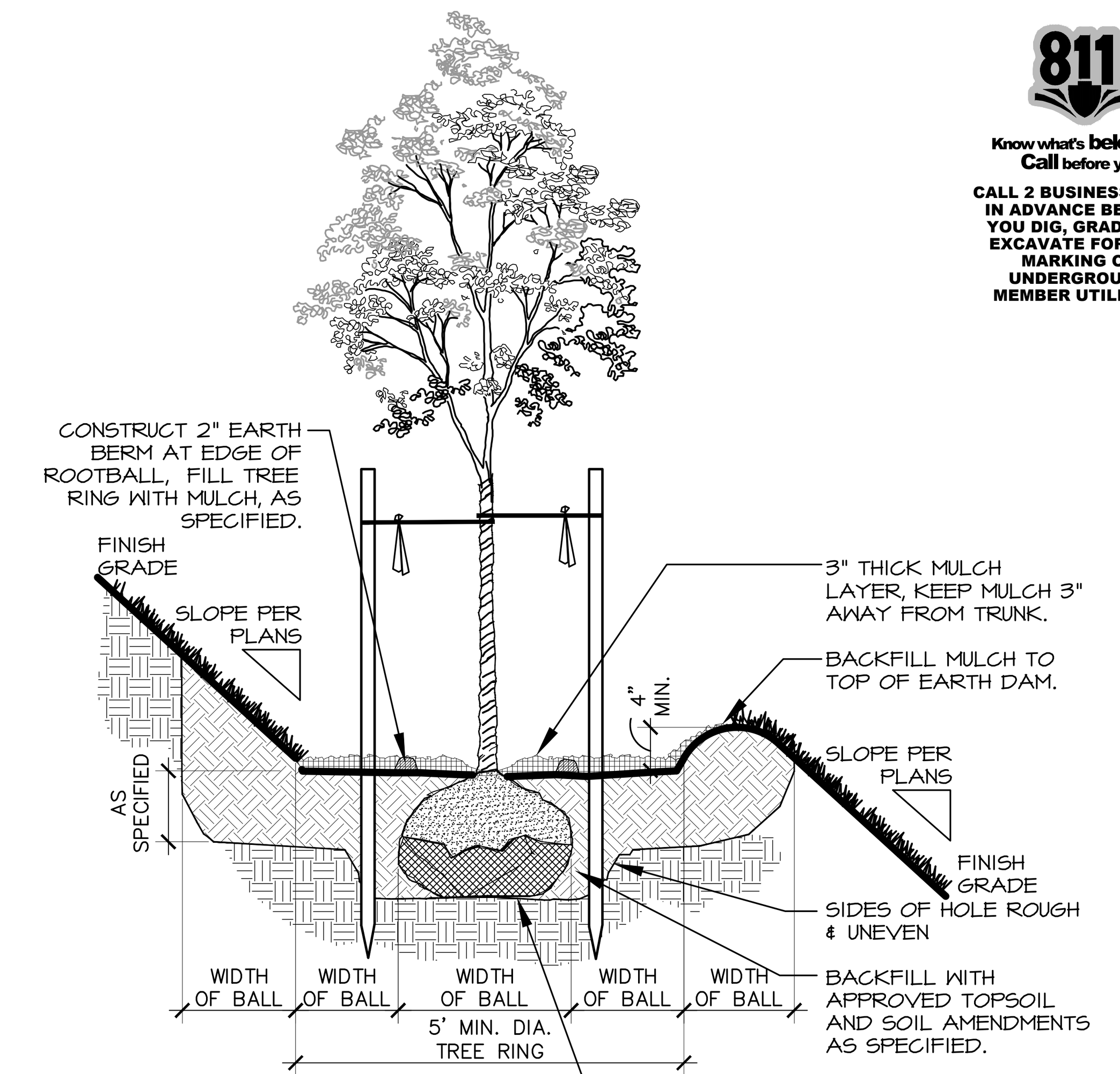
NOTES:
1. THE STAKING OF TREES IS TO THE CONTRACTOR'S OPTION; HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL TREES ARE PLANTED STRAIGHT AND THAT THEY REMAIN STRAIGHT FOR LENGTH OF WARRANTY PERIOD OR 1 YEAR AFTER SUBSTANTIAL COMPLETION WHICHEVER IS GREATER. ALL STAKING SHALL BE REMOVED AT THE END OF THE WARRANTY PERIOD.
2. IN THE EVENT OF A QUESTION OR LACK OF CLARITY ON THE DRAWINGS, THE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
3. LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. WRAP RUBBER CINCH TIES AROUND THE TREE TRUNKS AND STAKES USING EITHER THE STANDARD OR FIGURE EIGHT TYING METHOD. SECURE THE TIES TO THE STAKES WITH GALVANIZED NAILS TO PREVENT SLIPPAGE.
5. WATER TREE TWICE WITHIN THE FIRST 24 HOURS.
6. IN THE EVENT HARDPAN SOILS PREVENT TREE PLANTING AS DETAILED, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
7. FOR TREES LOCATED WITHIN ROADSIDE PLANTERS LESS THAN 8'-0" IN WIDTH, PROVIDE TREE ROOT BARRIER (DEEPROOT #24-2 OR APPROVED EQUAL). LOCATE ROOT BARRIER AT BACK OF CURB AND EDGE OF SIDEWALK. ALL TREE INSTALLATIONS SHALL CONFORM TO ALL AGENCY APPROVAL REQUIREMENTS, CONTRACTOR SHALL VERIFY PRIOR TO ANY INSTALLATIONS.

4 DECIDUOUS TREE PLANTING
NOT TO SCALE



NOTES:
1. THE STAKING OF TREES IS TO THE CONTRACTOR'S OPTION; HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL TREES ARE PLANTED STRAIGHT AND THAT THEY REMAIN STRAIGHT FOR LENGTH OF WARRANTY PERIOD OR 1 YEAR AFTER SUBSTANTIAL COMPLETION WHICH EVER IS GREATER. ALL STAKING SHALL BE REMOVED AT THE END OF THE WARRANTY PERIOD.
2. IN THE EVENT OF A QUESTION OR LACK OF CLARITY ON THE DRAWINGS, THE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
3. LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. WRAP RUBBER CINCH TIES AROUND THE TREE TRUNKS AND STAKES USING EITHER THE STANDARD OR FIGURE EIGHT TYING METHOD. SECURE THE TIES TO THE STAKES WITH GALVANIZED NAILS TO PREVENT SLIPPAGE.
5. WATER TREE TWICE WITHIN THE FIRST 24 HOURS.
6. IN THE EVENT HARDPAN SOILS PREVENT TREE PLANTING AS DETAILED, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.

5 CONIFEROUS TREE PLANTING
NOT TO SCALE



NOTES:
1. SEE DECIDUOUS AND/OR CONIFEROUS TREE PLANTING DETAILS FOR ADDITIONAL INFORMATION.
2. IN THE EVENT OF A QUESTION OR LACK OF CLARITY ON THE DRAWINGS, THE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
3. LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. WATER TREE TWICE WITHIN THE FIRST 24 HOURS. ENSURE EARTH DAM DOES NOT LEAK OR ERODE AND REPAIR AS REQUIRED.

6 TREE PLANTING ON BERM OR SLOPE
NOT TO SCALE

811 Know what's below. Call before you dig.
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www.breckonlanddesign.com Phone: (208) 376-5153
6661 North Glenwood Street Garden City, Idaho 83714

STATE OF IDAHO
JON FRITZ BRECKON
LA-16836
2/11/2022
LICENSED LANDSCAPE ARCHITECT

Revisions		
	Description	Date
A		

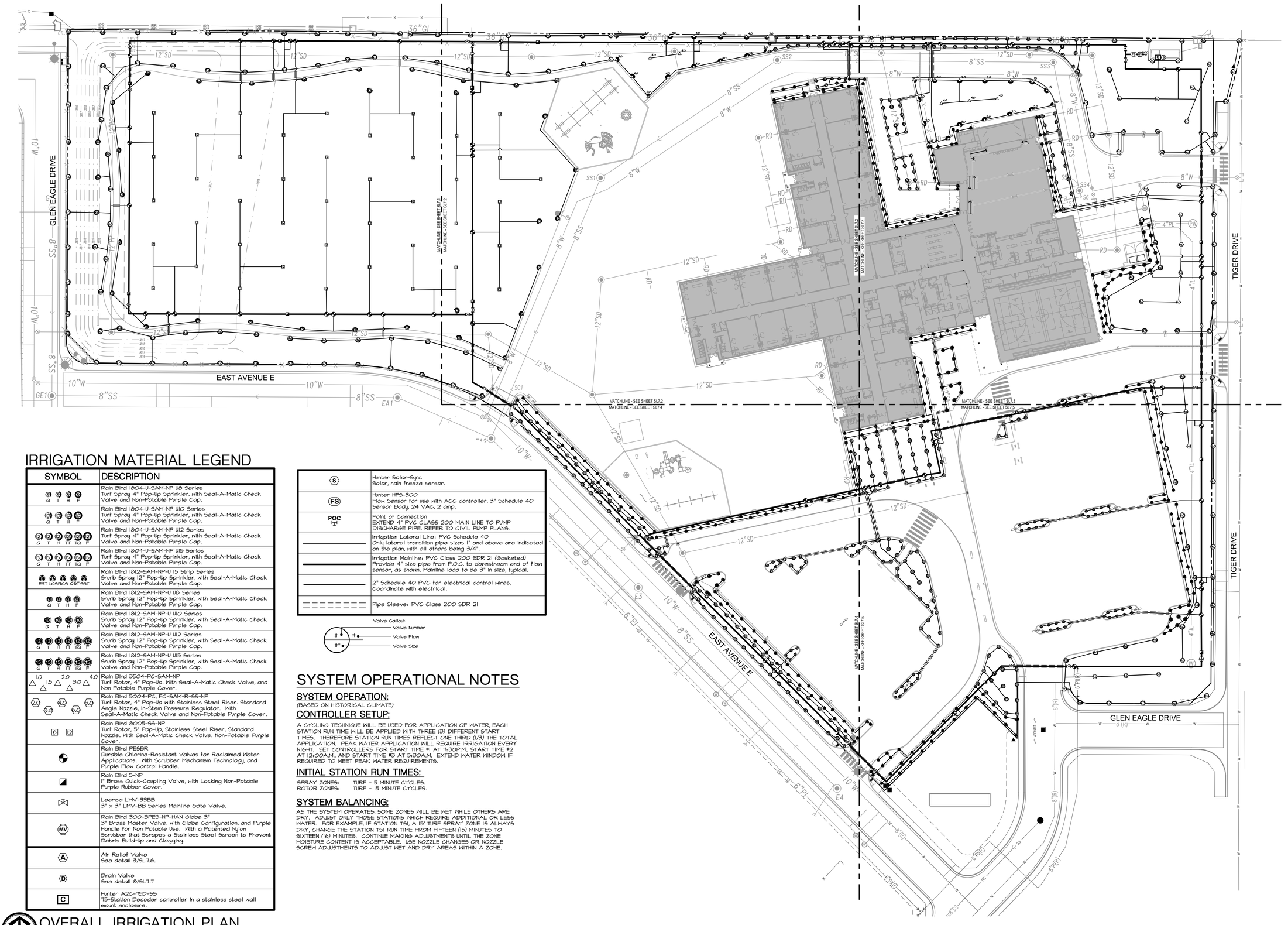
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SL6.7
LANDSCAPE DETAILS



IRRIGATION MATERIAL LEGEND

SYMBOL	DESCRIPTION
Q T H F	Rain Bird 1804-U-SAM-NP U8 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
Q T H F	Rain Bird 1804-U-SAM-NP U10 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
Q T H TT TQ F	Rain Bird 1804-U-SAM-NP U12 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
Q T H TT TQ F	Rain Bird 1804-U-SAM-NP U15 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
EST LCSRCS CST SST	Rain Bird 1812-SAM-NP-U 15 Strip Series Shrub Spray 12" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
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1.0 1.5 2.0 3.0 4.0	Rain Bird 3504-PC-SAM-NP Turf Rotor, 4" Pop-Up, With Seal-A-Matic Check Valve, and Non Potable Purple Cover.
2.4 4.0 5.0 6.4	Rain Bird 5004-PC, FC-SAM-R-SS-NP Turf Rotor, 4" Pop-Up with Stainless Steel Riser. Standard Angle Nozzle, In-Stem Pressure Regulator. With Seal-A-Matic Check Valve and Non-Potable Purple Cover.
6 12	Rain Bird 8005-SS-NP Turf Rotor, 5" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve. Non-Potable Purple Cover.
	Rain Bird PESBR Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.
	Rain Bird 5-NP 1" Brass Quick-Coupling Valve, with Locking Non-Potable Purple Rubber Cover.
	Leemco LMV-33BB 3" x 3" LMV-BB Series Mainline Gate Valve.
MV	Rain Bird 300-BPES-NP-HAN Globe 3" 3" Brass Master Valve, with Globe Configuration, and Purple Handle for Non Potable Use. With a Patented Nylon Scrubber that Scrapes a Stainless Steel Screen to Prevent Debris Build-Up and Clogging.
A	Air Relief Valve See detail 3/SL7.6.
D	Drain Valve See detail 8/SL7.7
C	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.

S	Hunter Solar-Sync Solar, rain freeze sensor.
FS	Hunter HFS-300 Flow Sensor for use with ACC controller, 3" Schedule 40 Sensor Body, 24 VAC, 2 amp.
POC 1"	Point of Connection EXTEND 4" PVC CLASS 200 MAIN LINE TO PUMP DISCHARGE PIPE. REFER TO CIVIL PUMP PLANS.
	Irrigation Lateral Line: PVC Schedule 40 Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4".
	Irrigation Mainline: PVC Class 200 SDR 21 (Gasketed) Provide 4" size pipe from P.O.C. to downstream end of flow sensor, as shown. Mainline loop to be 3" in size, typical.
	2" Schedule 40 PVC for electrical control wires. Coordinate with electrical.
	Pipe Sleeve: PVC Class 200 SDR 21

Valve Callout
Valve Number
Valve Flow
Valve Size

SYSTEM OPERATIONAL NOTES

SYSTEM OPERATION:
(BASED ON HISTORICAL CLIMATE)

CONTROLLER SETUP:

A CYCLING TECHNIQUE WILL BE USED FOR APPLICATION OF WATER, EACH STATION RUN TIME WILL BE APPLIED WITH THREE (3) DIFFERENT START TIMES. THEREFORE STATION RUN TIMES REFLECT ONE THIRD (1/3) THE TOTAL APPLICATION. PEAK WATER APPLICATION WILL REQUIRE IRRIGATION EVERY NIGHT. SET CONTROLLERS FOR START TIME #1 AT 1:30P.M., START TIME #2 AT 12:00A.M., AND START TIME #3 AT 5:30A.M. EXTEND WATER WINDOW IF REQUIRED TO MEET PEAK WATER REQUIREMENTS.

INITIAL STATION RUN TIMES:

SPRAY ZONES: TURF - 5 MINUTE CYCLES.
ROTOR ZONES: TURF - 15 MINUTE CYCLES.

SYSTEM BALANCING:

AS THE SYSTEM OPERATES, SOME ZONES WILL BE WET WHILE OTHERS ARE DRY. ADJUST ONLY THOSE STATIONS WHICH REQUIRE ADDITIONAL OR LESS WATER. FOR EXAMPLE, IF STATION 7S1, A 15' TURF SPRAY ZONE IS ALWAYS DRY, CHANGE THE STATION 7S1 RUN TIME FROM FIFTEEN (15) MINUTES TO SIXTEEN (16) MINUTES. CONTINUE MAKING ADJUSTMENTS UNTIL THE ZONE MOISTURE CONTENT IS ACCEPTABLE. USE NOZZLE CHANGES OR NOZZLE SCREW ADJUSTMENTS TO ADJUST WET AND DRY AREAS WITHIN A ZONE.

OVERALL IRRIGATION PLAN

SCALE: 1"= 40'-0"

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Jon Bruemmer
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N. 100 E. Jerome, Idaho

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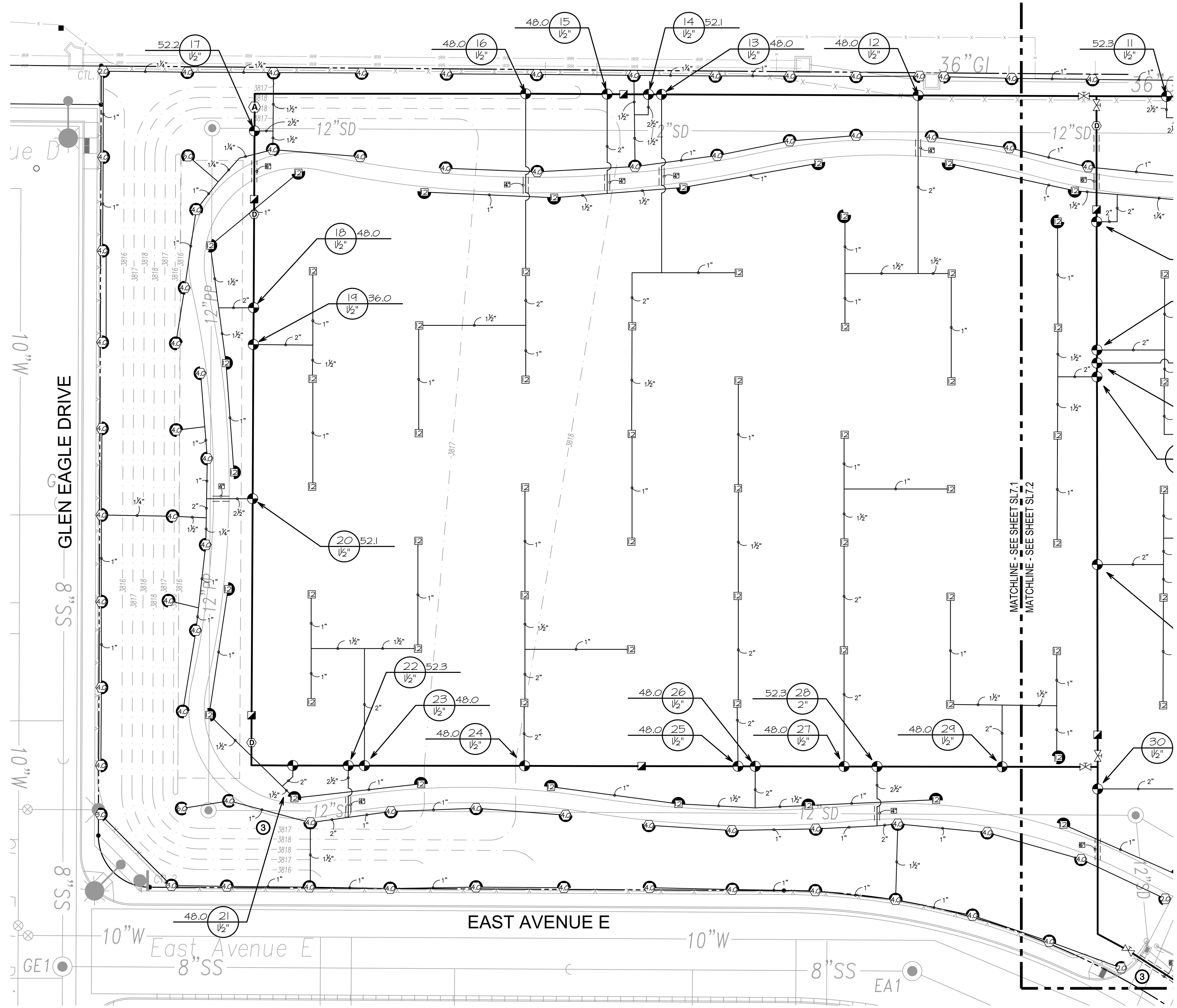
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

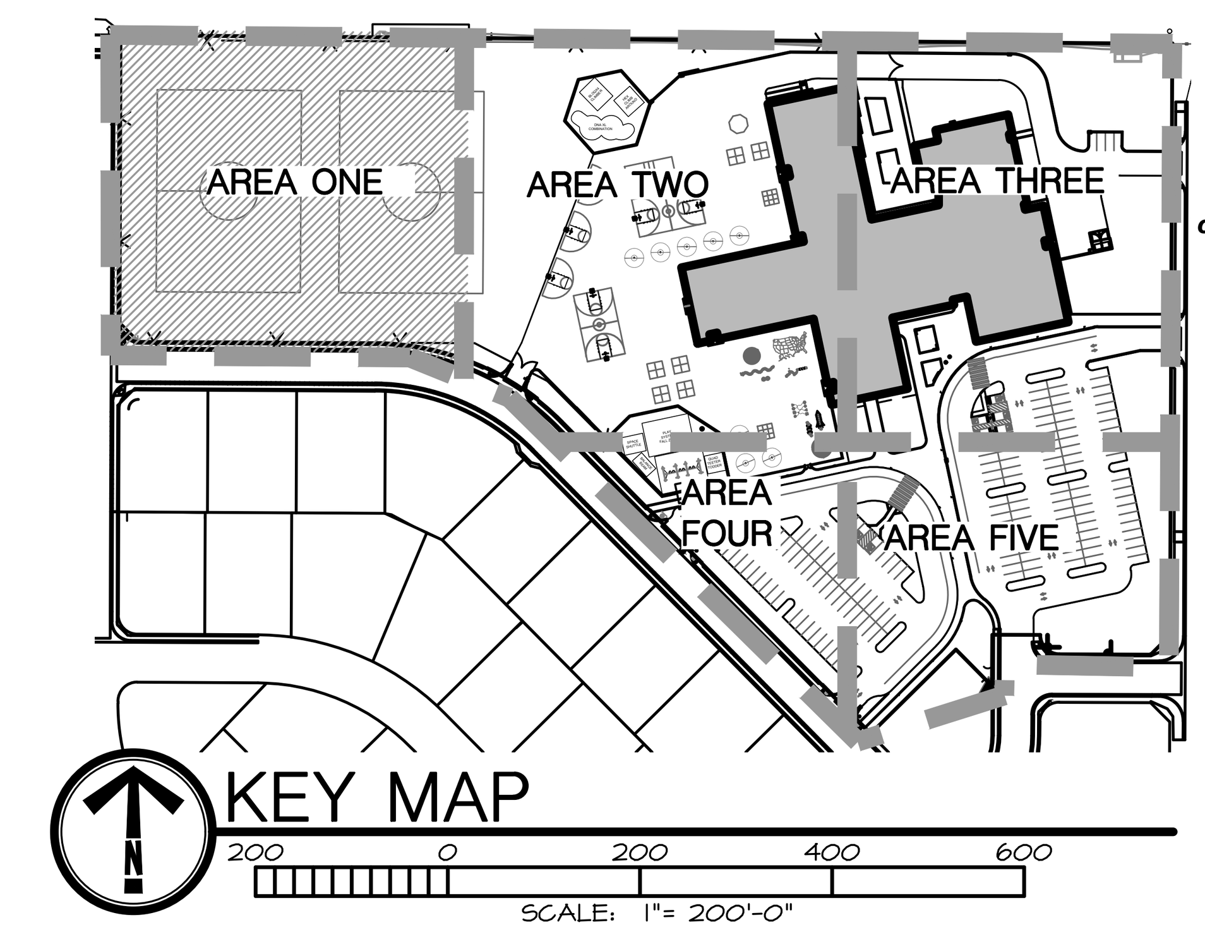
DRAWING NO.:
SL7.0
OVERALL IRRIGATION PLAN

S:_projects\2021\21114 jerome elementary\CAD\sheets\SL7.0 IRRIGATION PLAN.dwg plotted by: kharney on Fri, February 18 2022 at 11:59 AM



IRRIGATION PLAN- AREA ONE

SCALE: 1"= 20'-0"



KEY MAP

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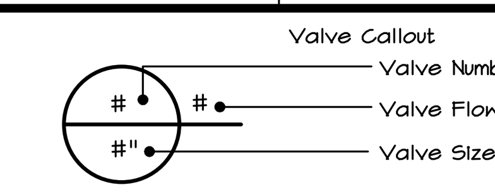

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LA-16536
2/11/2022
LICENSED LANDSCAPE ARCHITECT

Revisions

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N. 100 E. Jerome, Idaho

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LKV PROJECT #: 2120
BLD PROJECT #: 21114

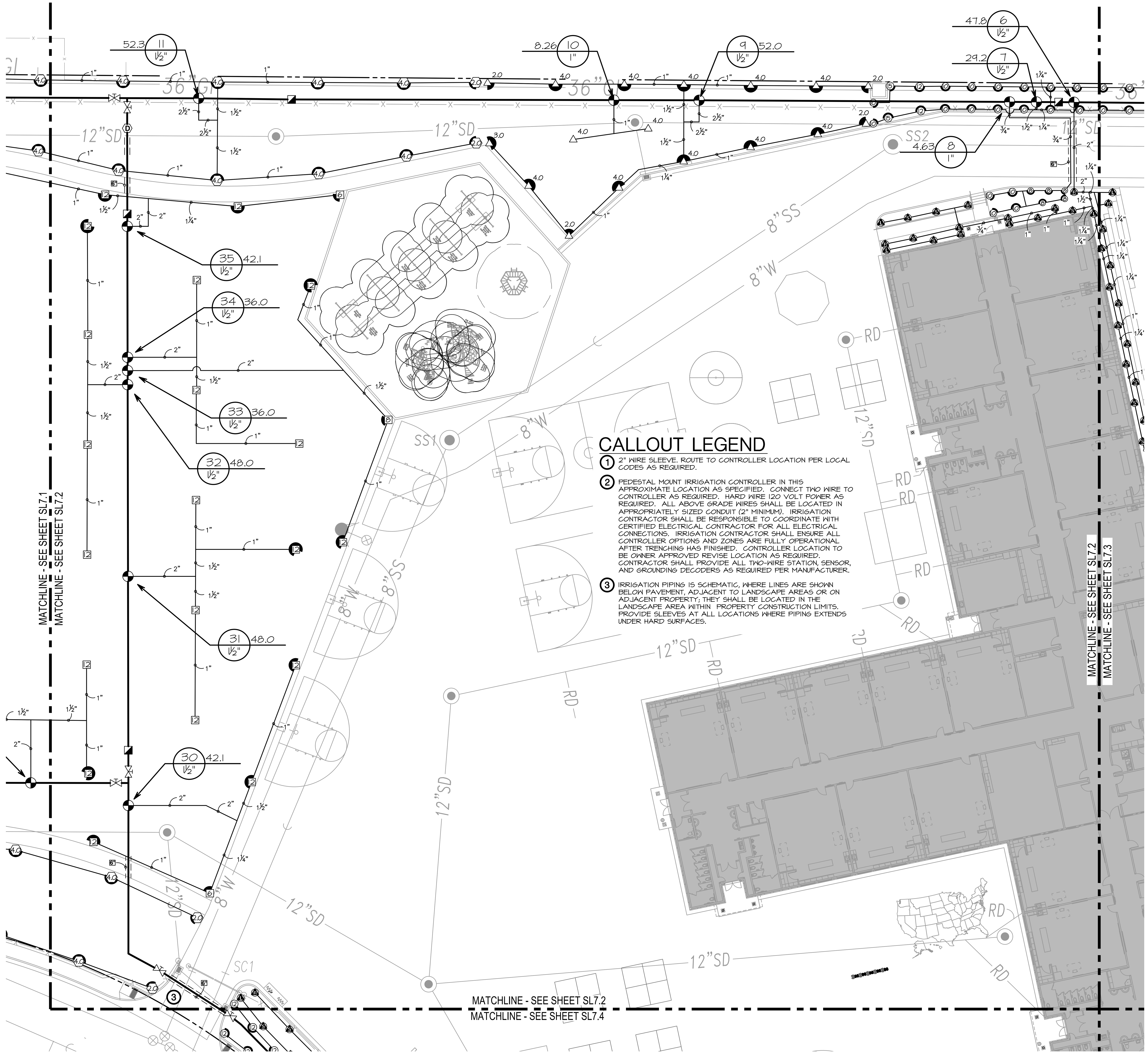
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:

SL7.1

IRRIGATION PLAN- AREA ONE



CALLOUT LEGEND

1. 2" WIRE SLEEVE. ROUTE TO CONTROLLER LOCATION PER LOCAL CODES AS REQUIRED.
2. PEDESTAL MOUNT IRRIGATION CONTROLLER IN THIS APPROXIMATE LOCATION AS SPECIFIED. CONNECT TWO WIRE TO CONTROLLER AS REQUIRED. HARD WIRE 120 VOLT POWER AS REQUIRED. ALL ABOVE GRADE WIRES SHALL BE LOCATED IN APPROPRIATELY SIZED CONDUIT (2" MINIMUM). IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CERTIFIED ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL CONNECTIONS. IRRIGATION CONTRACTOR SHALL ENSURE ALL CONTROLLER OPTIONS AND ZONES ARE FULLY OPERATIONAL AFTER TRENCHING HAS FINISHED. CONTROLLER LOCATION TO BE OWNER APPROVED REVISE LOCATION AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL TWO-WIRE STATION, SENSOR, AND GROUNDING DECODERS AS REQUIRED PER MANUFACTURER.
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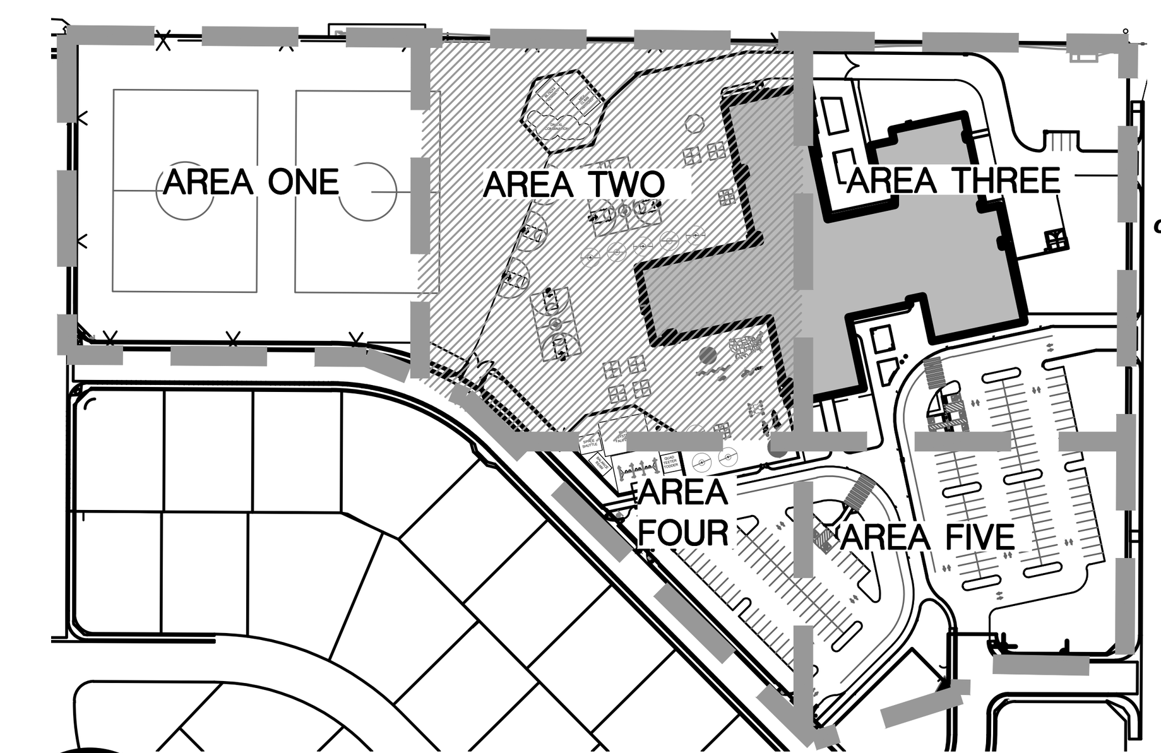
IRRIGATION PLAN- AREA TWO

SCALE: 1"= 20'-0"



KEY MAP

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Valve Callout
- Valve Number
- Valve Flow
- Valve Size

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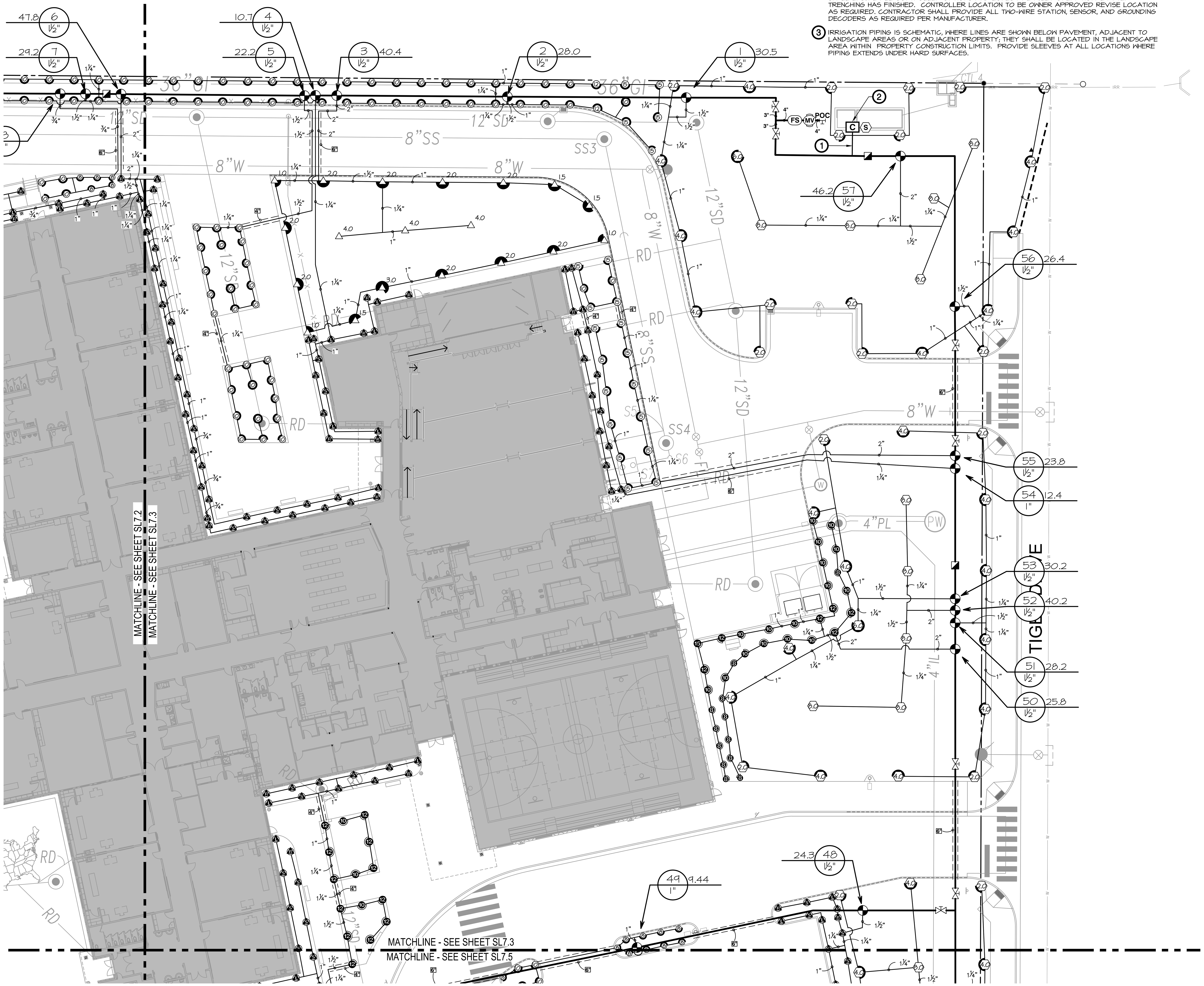
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB
BID SET
DRAWING NO.:
SL7.2
IRRIGATION PLAN- AREA TWO



IRRIGATION PLAN- AREA THREE

SCALE: 1"= 20'-0"

CALLOUT LEGEND

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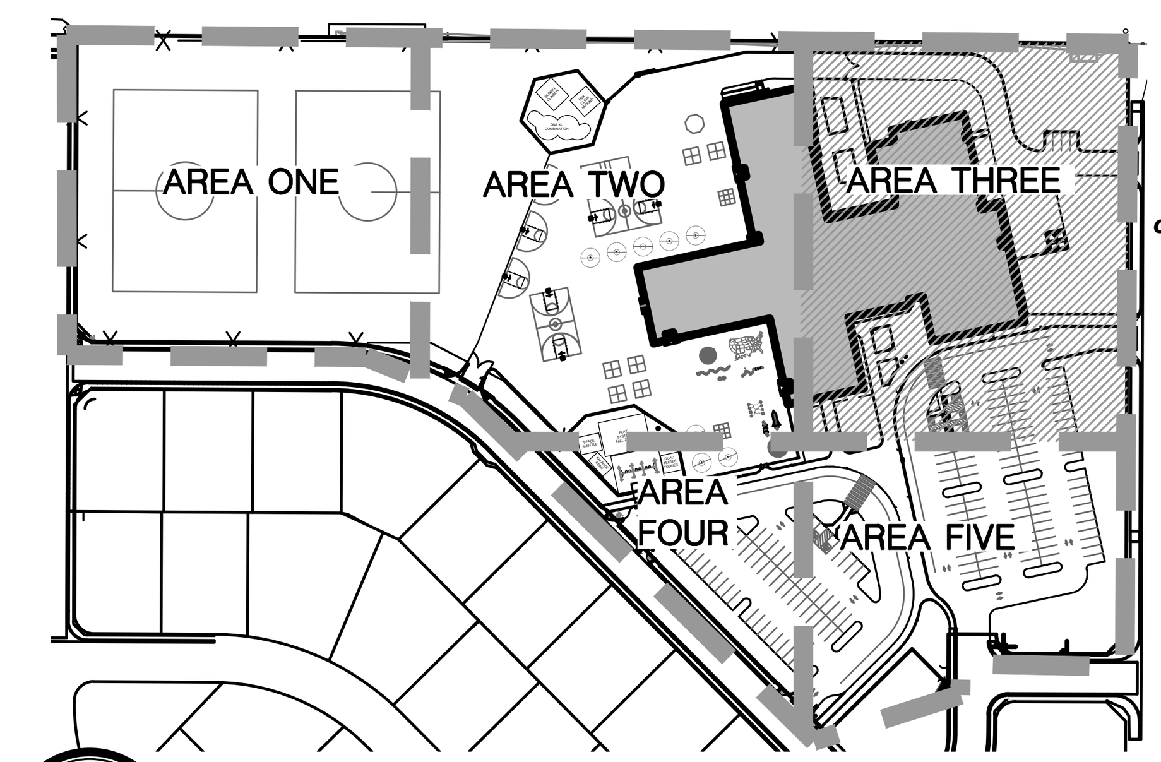

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POC	Point of Connection EXTEND 4" PVC CLASS 200 MAIN LINE TO PUMP DISCHARGE PIPE. REFER TO CIVIL PUMP PLANS.
	Irrigation Lateral Line: PVC Schedule 40 Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4".
	Irrigation Mainline: PVC Class 200 SDR 21 (Gasketed) Provide 4" size pipe from P.O.C. to downstream end of flow sensor, as shown. Mainline loop to be 3" in size, typical.
	2" Schedule 40 PVC for electrical control wires. Coordinate with electrical.
- - - - -	Pipe Sleeve: PVC Class 200 SDR 21

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

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• Civil Engineering • Landscape Architecture • Erosion & Sediment Control • Graphic Communication • Irrigation Design • Land Planning
www.breckonlanddesign.com Fax: 208-376-6528 Phone: 208-376-5153
6661 North Glenwood Street Garden City, Idaho 83714

STATE OF IDAHO — JON FRITZ BRECKON — LA-16536 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions

	Description	Date
#		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114

DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:

SL7.3
IRRIGATION PLAN- AREA THREE

VALVE SCHEDULE

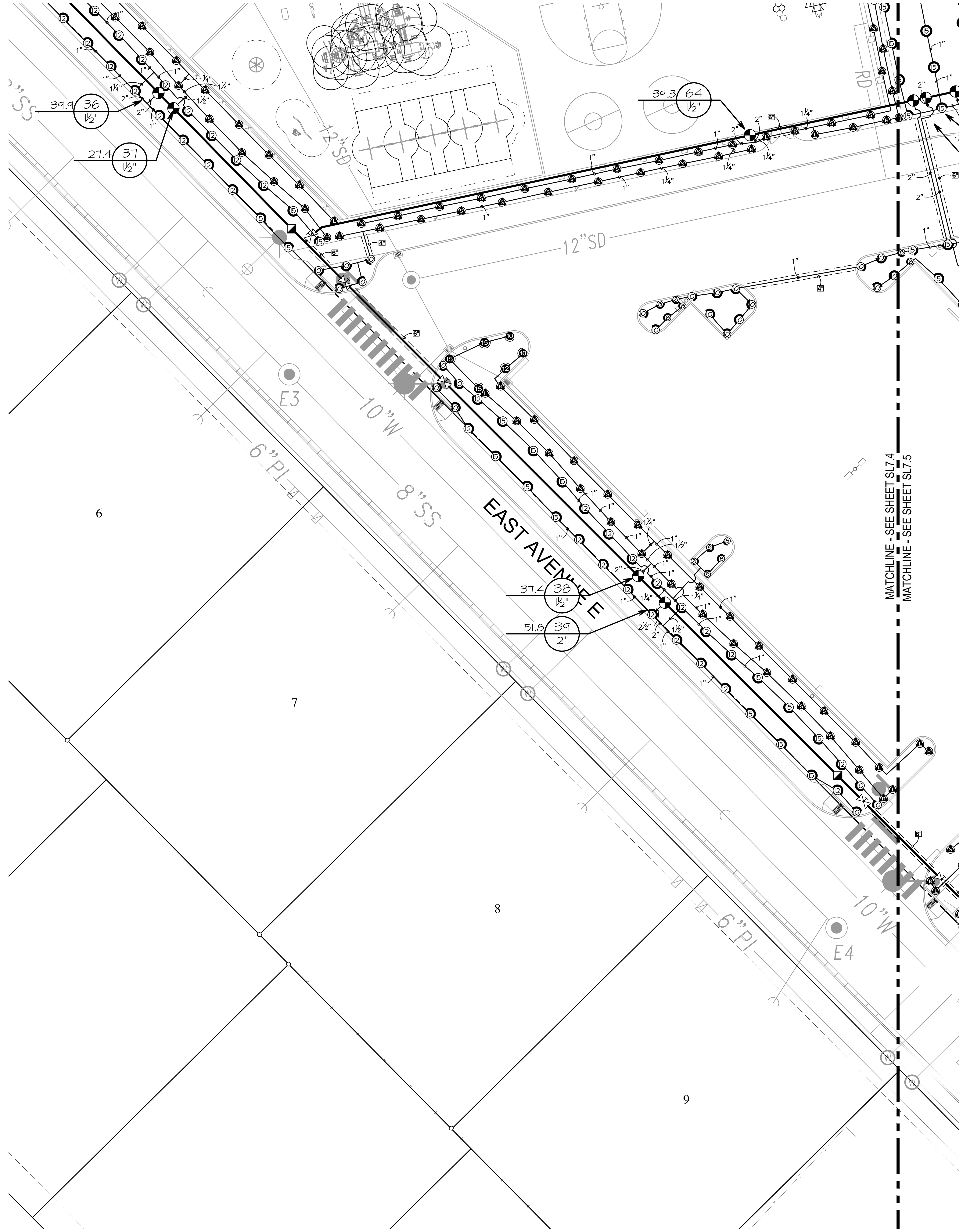
NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI
1	Rain Bird PESBR	1-1/2"	Turf Rotor	30.53	45
2	Rain Bird PESBR	1-1/2"	Turf Spray	28.03	30
3	Rain Bird PESBR	1-1/2"	Turf Rotor	40.38	45
4	Rain Bird PESBR	1-1/2"	Shrub Spray	10.72	30
5	Rain Bird PESBR	1-1/2"	Turf Spray	22.15	30
6	Rain Bird PESBR	1-1/2"	Shrub Spray	47.77	30
7	Rain Bird PESBR	1-1/2"	Turf Spray	29.15	30
8	Rain Bird PESBR	1"	Turf Spray	4.63	30
9	Rain Bird PESBR	1-1/2"	Turf Rotor	52.02	45
10	Rain Bird PESBR	1"	Turf Rotor	8.26	45
11	Rain Bird PESBR	1-1/2"	Turf Rotor	52.26	45
12	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
13	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
14	Rain Bird PESBR	1-1/2"	Turf Rotor	52.13	45
15	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
16	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
17	Rain Bird PESBR	1-1/2"	Turf Rotor	52.19	45
18	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
19	Rain Bird PESBR	1-1/2"	Turf Rotor	36.00	60
20	Rain Bird PESBR	1-1/2"	Turf Rotor	52.13	45
21	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
22	Rain Bird PESBR	1-1/2"	Turf Rotor	52.29	45
23	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
24	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
25	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
26	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
27	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
28	Rain Bird PESBR	2"	Turf Rotor	52.26	45
29	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
30	Rain Bird PESBR	1-1/2"	Turf Rotor	42.10	60
31	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
32	Rain Bird PESBR	1-1/2"	Turf Rotor	48.00	60
33	Rain Bird PESBR	1-1/2"	Turf Rotor	36.00	60
34	Rain Bird PESBR	1-1/2"	Turf Rotor	36.00	60
35	Rain Bird PESBR	1-1/2"	Turf Rotor	42.10	60
36	Rain Bird PESBR	1-1/2"	Turf Spray	39.87	30
37	Rain Bird PESBR	1-1/2"	Shrub Spray	27.37	30
38	Rain Bird PESBR	1-1/2"	Shrub Spray	37.35	30
39	Rain Bird PESBR	2"	Turf Spray	51.80	30
40	Rain Bird PESBR	1-1/2"	Shrub Spray	34.82	30
41	Rain Bird PESBR	1-1/2"	Turf Spray	33.73	30
42	Rain Bird PESBR	1-1/2"	Turf Rotor	50.39	45
43	Rain Bird PESBR	1"	Turf Spray	8.84	30
44	Rain Bird PESBR	1-1/2"	Shrub Spray	24.63	30
45	Rain Bird PESBR	1-1/2"	Turf Rotor	52.14	45
46	Rain Bird PESBR	1"	Turf Spray	8.84	30
47	Rain Bird PESBR	1-1/2"	Turf Rotor	46.25	45
48	Rain Bird PESBR	1-1/2"	Shrub Spray	24.26	30
49	Rain Bird PESBR	1"	Turf Spray	9.44	30
50	Rain Bird PESBR	1-1/2"	Shrub Spray	25.77	30
51	Rain Bird PESBR	1-1/2"	Turf Rotor	28.20	45
52	Rain Bird PESBR	1-1/2"	Turf Rotor	40.15	45
53	Rain Bird PESBR	1-1/2"	Turf Rotor	30.20	45
54	Rain Bird PESBR	1"	Shrub Spray	12.39	30
55	Rain Bird PESBR	1-1/2"	Turf Spray	23.80	30
56	Rain Bird PESBR	1-1/2"	Turf Rotor	26.39	45
57	Rain Bird PESBR	1-1/2"	Turf Rotor	46.16	45
58	Rain Bird PESBR	1"	Shrub Spray	17.98	30
59	Rain Bird PESBR	1-1/2"	Shrub Spray	23.51	30
60	Rain Bird PESBR	1-1/2"	Turf Spray	44.38	30
61	Rain Bird PESBR	1-1/2"	Turf Spray	29.58	30
62	Rain Bird PESBR	1-1/2"	Turf Spray	35.92	30
63	Rain Bird PESBR	1-1/2"	Turf Spray	26.45	30
64	Rain Bird PESBR	1-1/2"	Shrub Spray	39.33	30

PRESSURE LOSS CALCULATIONS

FLOW AVAILABLE	
Custom Max Flow:	120 GPM
Flow Available	120 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	78.00 PSI
Pressure Available:	78.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	120 GPM
Flow Available at POC:	120 GPM
Residual Flow Available:	0 GPM
Critical Station:	13
Design Pressure:	60 PSI
Friction Loss:	3.67 PSI
Fittings Loss:	0.37 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2.14 PSI
Pressure Req. at Critical Station:	66.18 PSI
Loss for Fittings:	0.43 PSI
Loss for Main Line:	4.28 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Master Valve:	1.8 PSI
Critical Station Pressure at POC:	72.69 PSI
Pressure Available:	78 PSI
Residual Pressure Available:	5.31 PSI

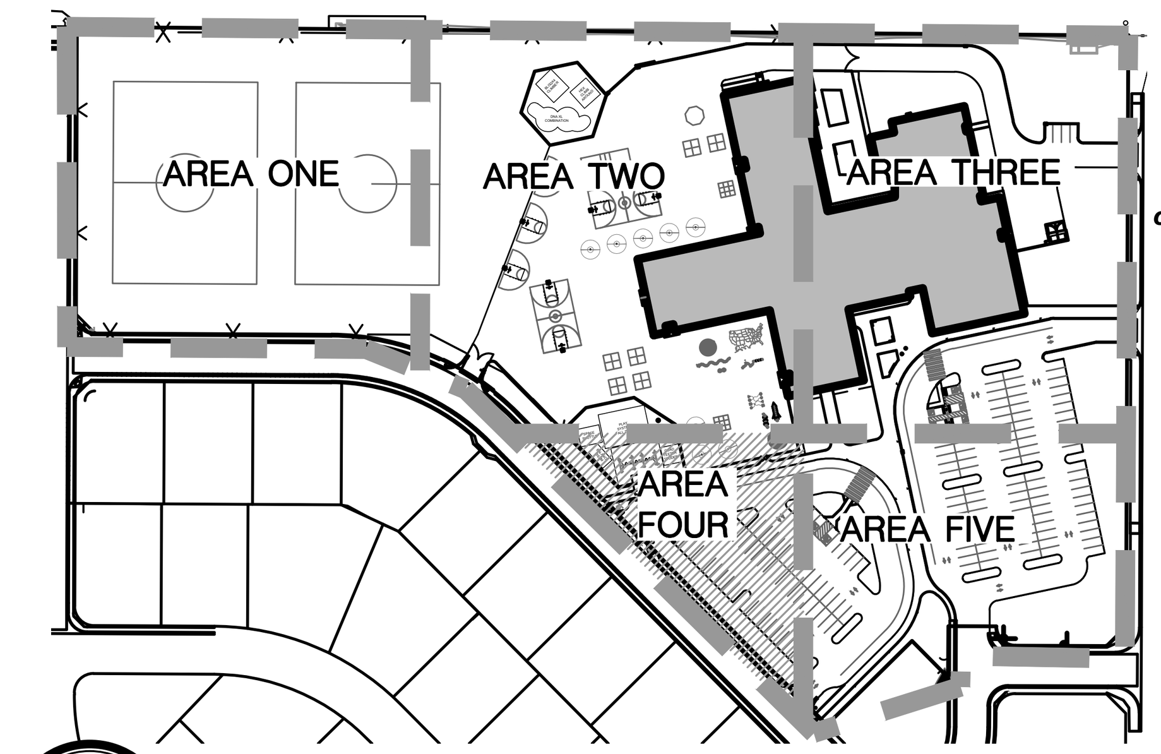
CALLOUT LEGEND

1. 2" WIRE SLEEVE. ROUTE TO CONTROLLER LOCATION PER LOCAL CODES AS REQUIRED.
2. PEDESTAL MOUNT IRRIGATION CONTROLLER IN THIS APPROXIMATE LOCATION AS SPECIFIED. CONNECT TWO WIRE TO CONTROLLER AS REQUIRED. HARD WIRE 120 VOLT POWER AS REQUIRED. ALL ABOVE GRADE WIRES SHALL BE LOCATED IN APPROPRIATELY SIZED CONDUIT (2" MINIMUM). IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CERTIFIED ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL CONNECTIONS. IRRIGATION CONTRACTOR SHALL ENSURE ALL CONTROLLER OPTIONS AND ZONES ARE FULLY OPERATIONAL AFTER TRENCHING HAS FINISHED. CONTROLLER LOCATION TO BE OWNER APPROVED REVISE LOCATION AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL TWO-WIRE STATION, SENSOR, AND GROUNDING DECODERS AS REQUIRED PER MANUFACTURER.
3. IRRIGATION PIPING IS SCHEMATIC, WHERE LINES ARE SHOWN BELOW PAVEMENT, ADJACENT TO LANDSCAPE AREAS OR ON ADJACENT PROPERTY; THEY SHALL BE LOCATED IN THE LANDSCAPE AREA WITHIN PROPERTY CONSTRUCTION LIMITS. PROVIDE SLEEVES AT ALL LOCATIONS WHERE PIPING EXTENDS UNDER HARD SURFACES.



IRRIGATION PLAN- AREA FOUR

SCALE: 1"= 20'-0"



KEY MAP

SCALE: 1"= 200'-0"

811 Know what's **below.** **Call** before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

IRRIGATION MATERIAL LEGEND

SYMBOL	DESCRIPTION
8: Q T H F	Rain Bird 1804-U-SAM-NP U8 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
10: Q T H F	Rain Bird 1804-U-SAM-NP U10 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
12: Q T H TT TQ F	Rain Bird 1804-U-SAM-NP U12 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
15: Q T H TT TQ F	Rain Bird 1804-U-SAM-NP U15 Series Turf Spray 4" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
E L R C S: EST LCS RCS CST SST	Rain Bird 1812-SAM-NP-U 15 Strip Series Shurb Spray 12" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
8: Q T H F	Rain Bird 1812-SAM-NP-U U8 Series Shurb Spray 12" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
10: Q T H F	Rain Bird 1812-SAM-NP-U U10 Series Shurb Spray 12" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
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15: Q T H TT TQ F	Rain Bird 1812-SAM-NP-U U15 Series Shurb Spray 12" Pop-Up Sprinkler, with Seal-A-Matic Check Valve and Non-Potable Purple Cap.
1.0 1.5 2.0 3.0 4.0	Rain Bird 3504-PC-SAM-NP Turf Rotor, 4" Pop-Up. With Seal-A-Matic Check Valve, and Non Potable Purple Cover.
2.0 3.0 4.0 6.0 8.0	Rain Bird 5004-PC, FC-SAM-R-SS-NP Turf Rotor, 4" Pop-Up with Stainless Steel Riser. Standard Angle Nozzle, In-Stem Pressure Regulator. With Seal-A-Matic Check Valve and Non-Potable Purple Cover.
6 12	Rain Bird 8005-SS-NP Turf Rotor, 5" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve. Non-Potable Purple Cover.
	Rain Bird PESBR Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.
	Rain Bird 5-NP 1" Brass Quick-Coupling Valve, with Locking Non-Potable Purple Rubber Cover.
	Leemco LMV-33BB 3" x 3" LMV-BB Series Mainline Gate Valve.
MV	Rain Bird 300-BPES-NP-HAN Globe 3" 3" Brass Master Valve, with Globe Configuration, and Purple Handle for Non Potable Use. With a Patented Nylon Scrubber that Scrapes a Stainless Steel Screen to Prevent Debris Build-Up and Clogging.
A	Air Relief Valve See detail 3/SL7.6.
D	Drain Valve See detail 8/SL7.7
C	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
S	Hunter Solar-Sync Solar, rain freeze sensor.
FS	Hunter HFS-300 Flow Sensor for use with ACC controller, 3" Schedule 40 Sensor Body, 24 VAC, 2 amp.
POC	Point of Connection EXTEND 4" PVC CLASS 200 MAIN LINE TO PUMP DISCHARGE PIPE. REFER TO CIVIL PUMP PLANS.
	Irrigation Lateral Line: PVC Schedule 40 Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4".
	Irrigation Mainline: PVC Class 200 SDR 21 (Gasketed) Provide 4" size pipe from P.O.C. to downstream end of flow sensor, as shown. Mainline loop to be 3" in size, typical.
	2" Schedule 40 PVC for electrical control wires. Coordinate with electrical.
- - - - -	Pipe Sleeve: PVC Class 200 SDR 21

Valve Callout
- # — Valve Number
- # — Valve Flow
- #" — Valve Size

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STATE OF IDAHO — JON FRITZ BRECKON — LICENSED LANDSCAPE ARCHITECT
LA-16536
2/11/2022

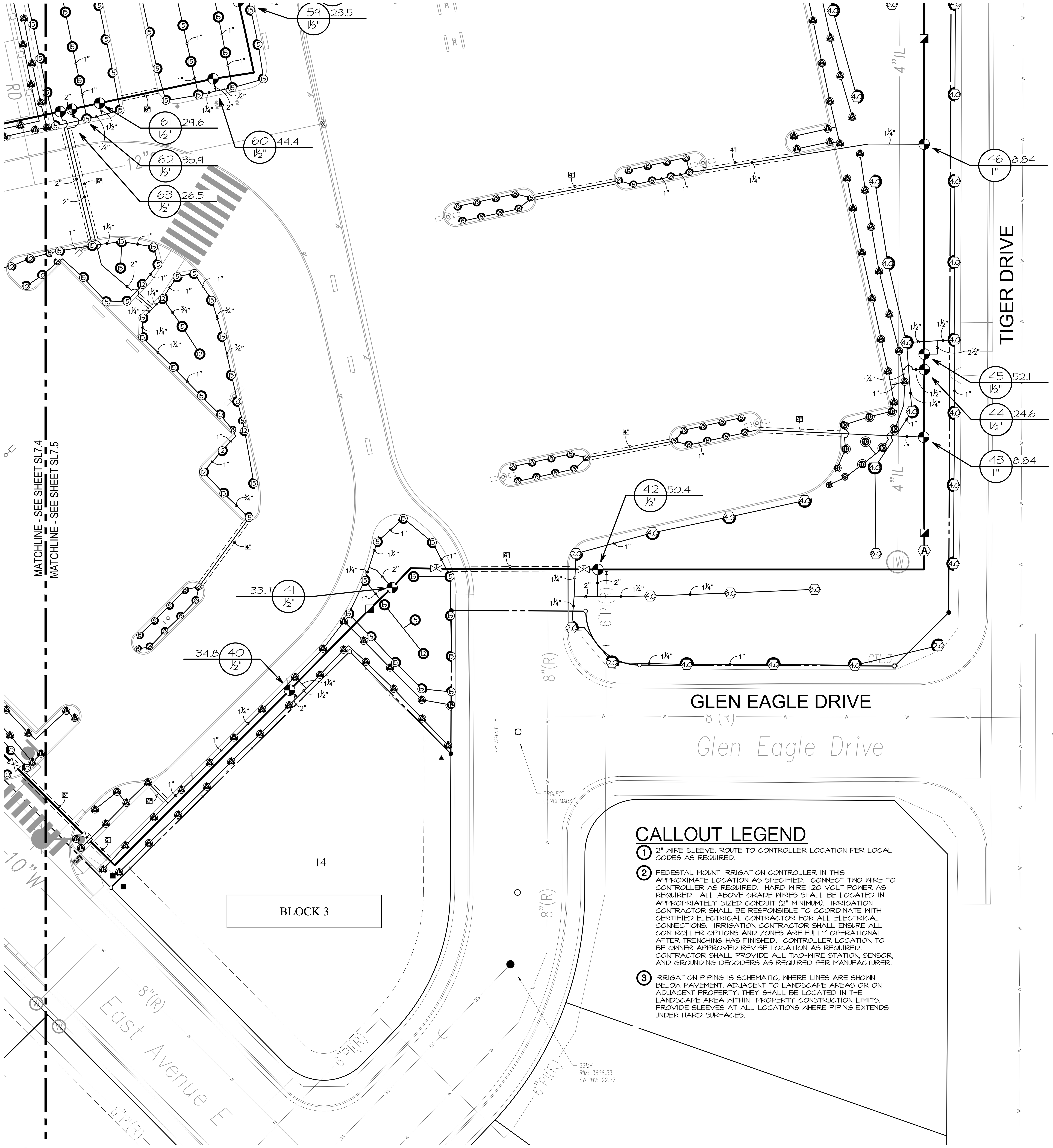
Revisions	
Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB

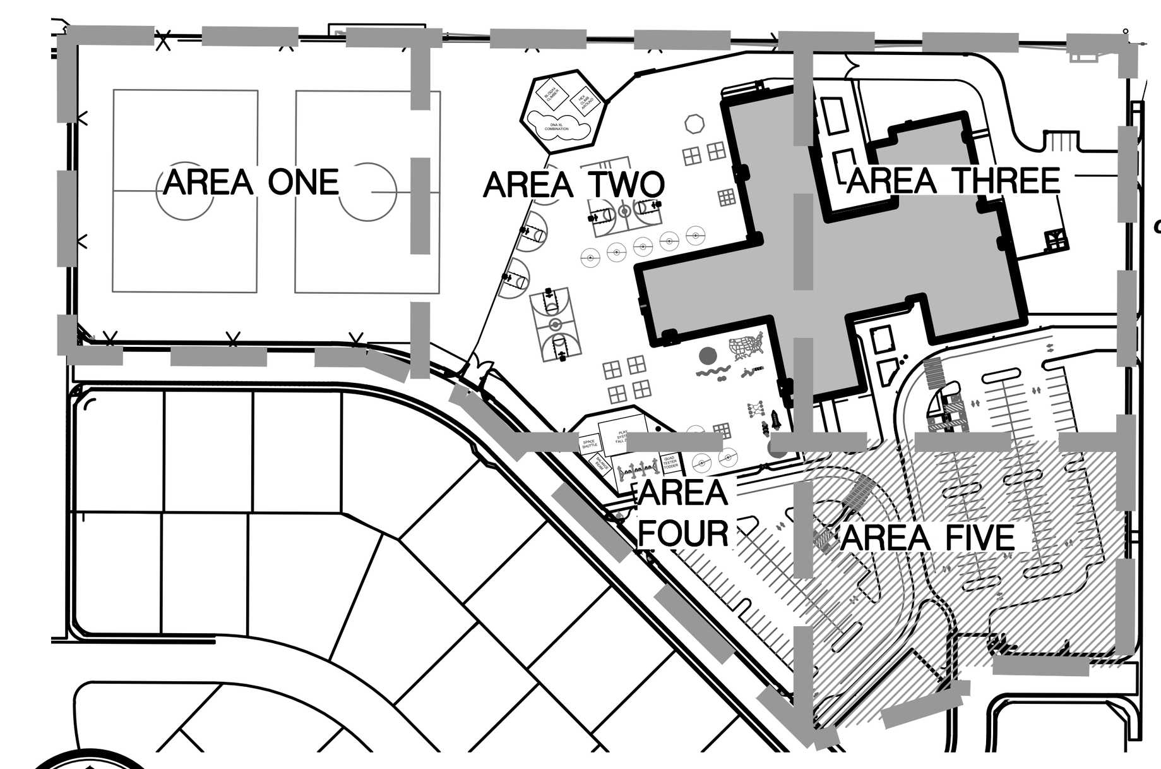
BID SET

DRAWING NO.:
SL7.4
IRRIGATION PLAN- AREA FOUR



IRRIGATION PLAN- AREA FIVE

SCALE: 1"= 20'-0"



KEY MAP

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Valve Callout
- Valve Number
- Valve Flow
- Valve Size

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STATE OF IDAHO — JON FRITZ BRECKON — LA-16536 — 2/11/2022 — LICENSED LANDSCAPE ARCHITECT

Revisions: # | Description | Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
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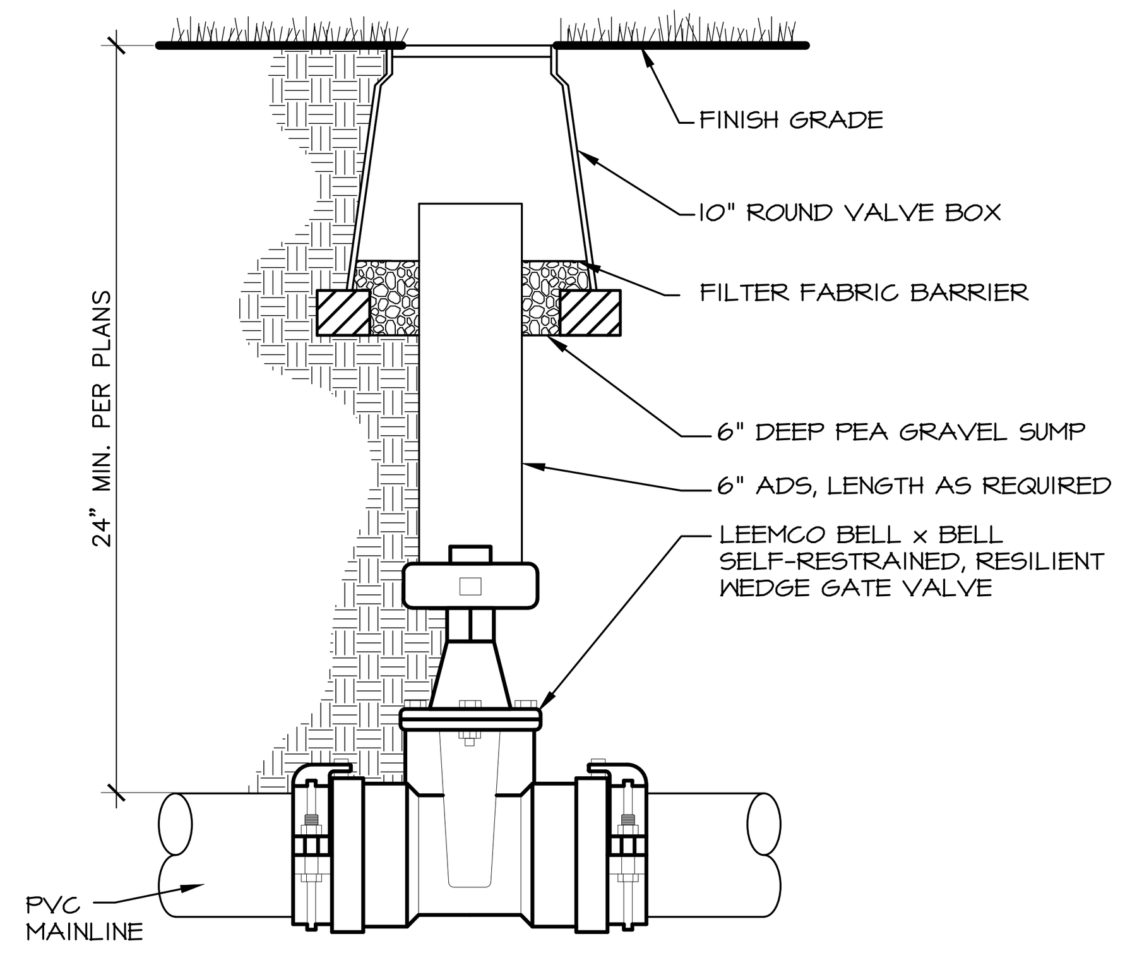
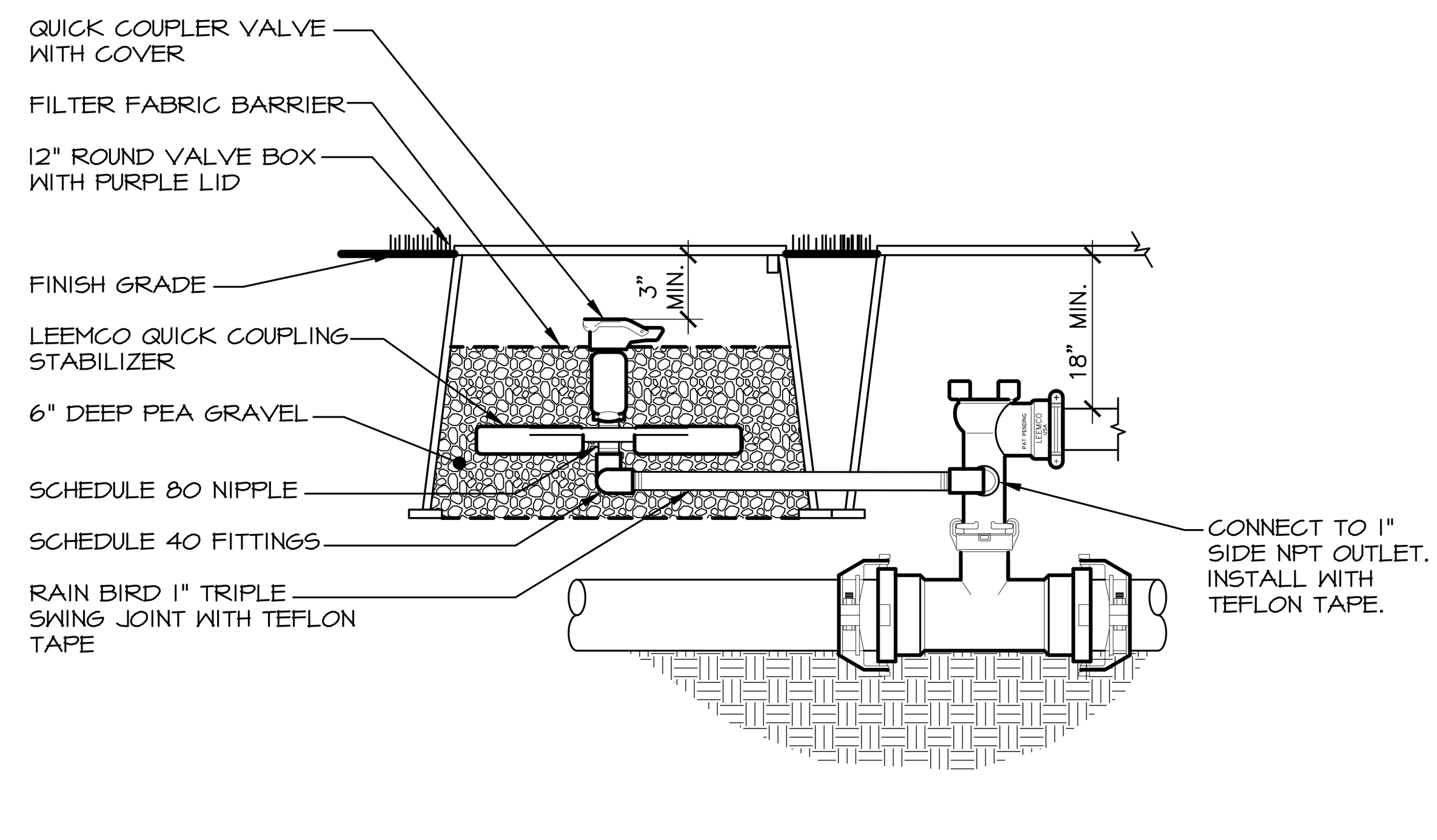
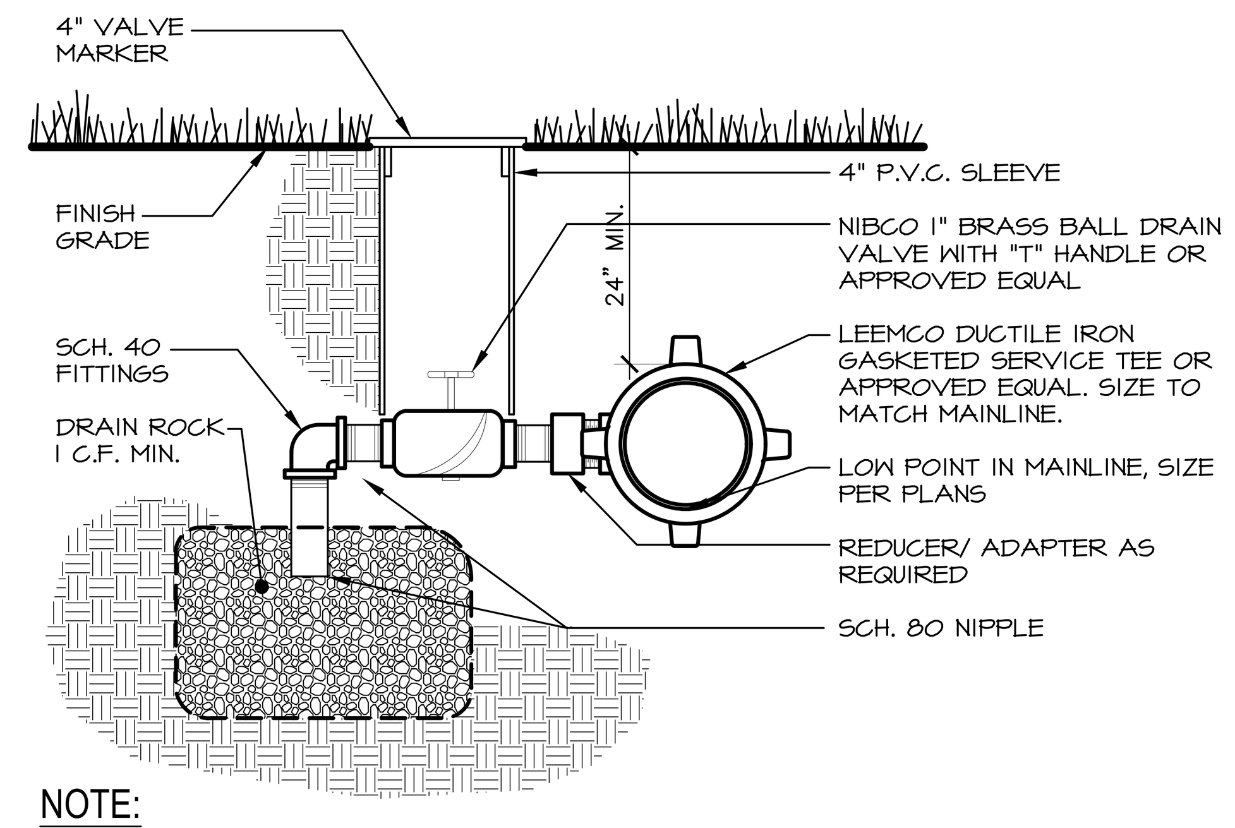
DRAWN BY: CP
CHECKED BY: JB
BID SET
DRAWING NO.:
SL7.5
IRRIGATION PLAN- AREA FIVE



1 MAIN LINE ISOLATION VALVE
NOT TO SCALE

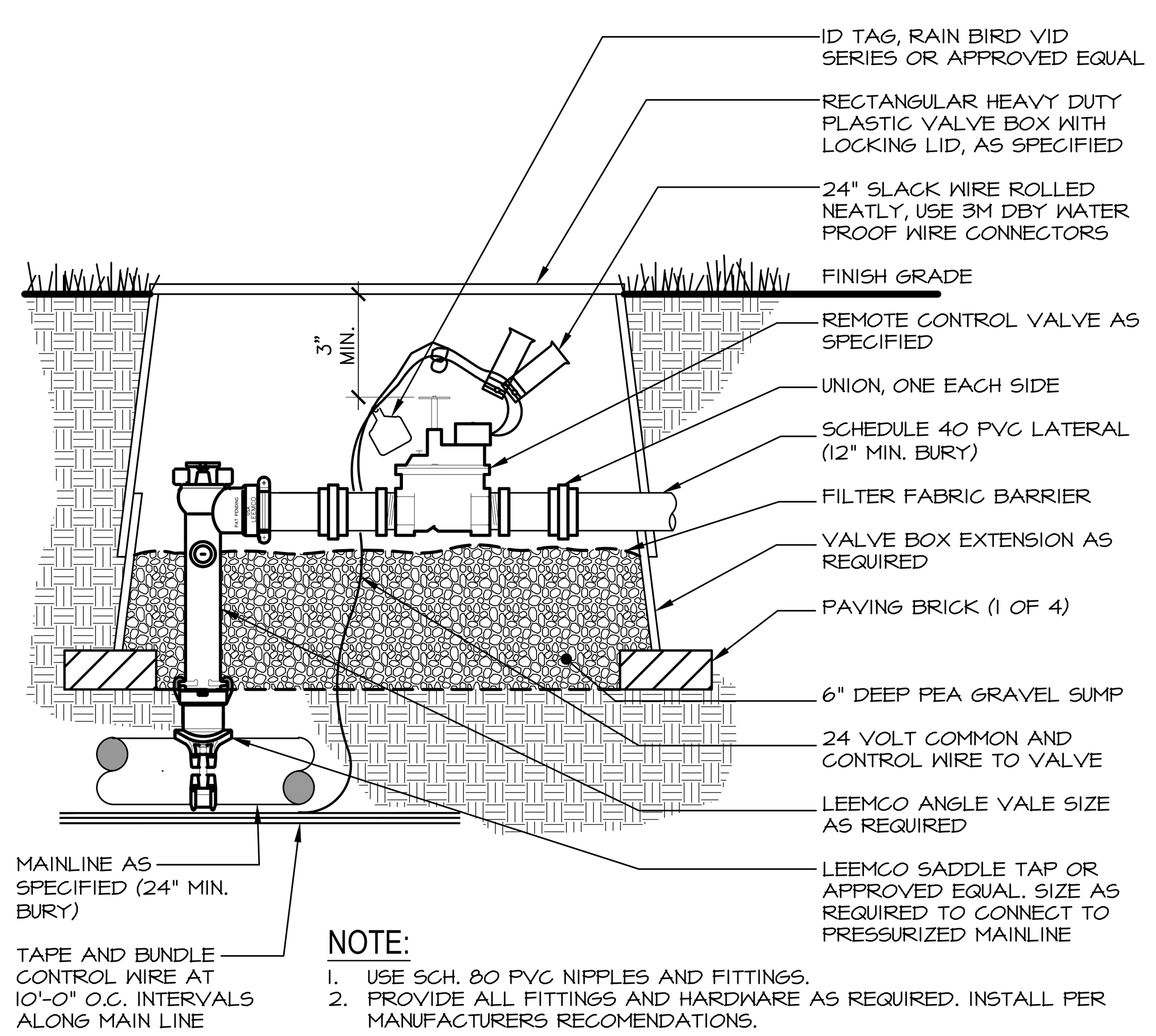


4 QUICK COUPLER VALVE
NOT TO SCALE



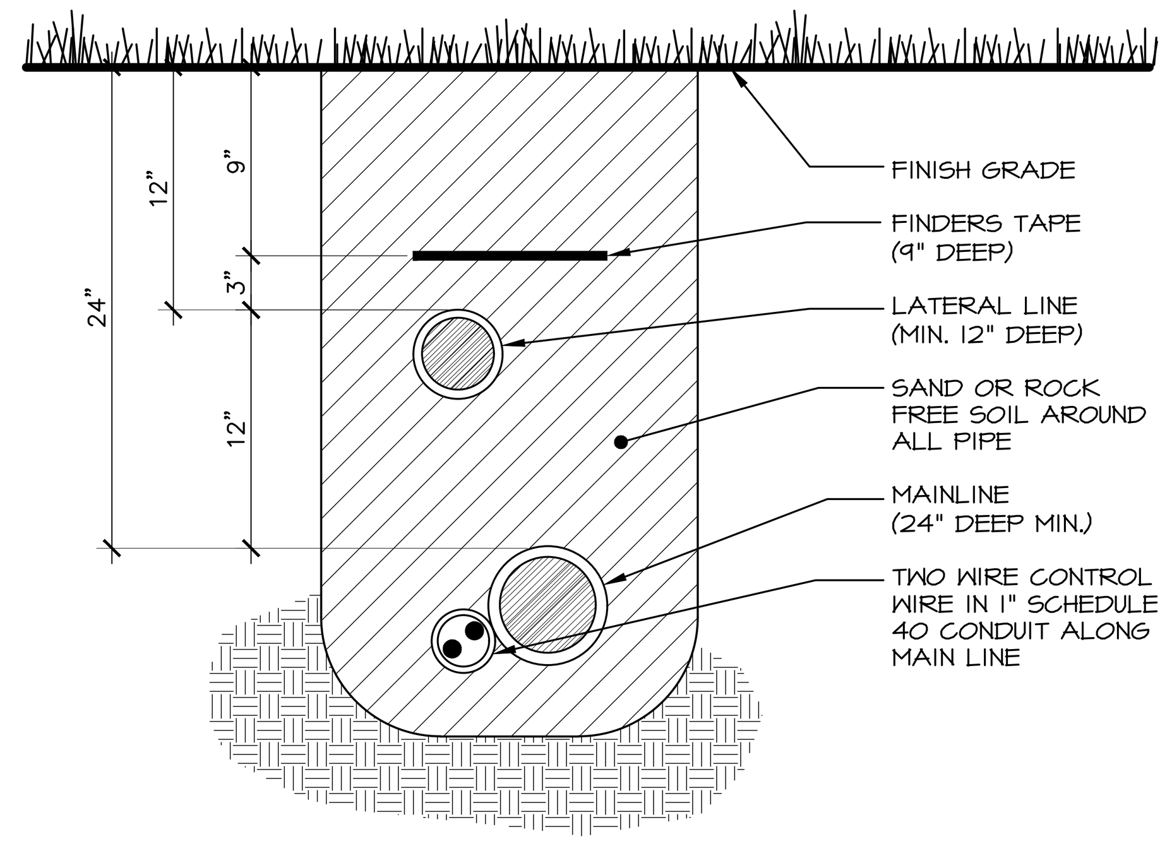
NOTE:
1. DRAIN LINES MAY BE DIRECTED TO THE SITE DRAINAGE SYSTEM WHERE APPLICABLE. REFER TO PLANS FOR MORE INFORMATION.

8 MANUAL DRAIN VALVE
NOT TO SCALE

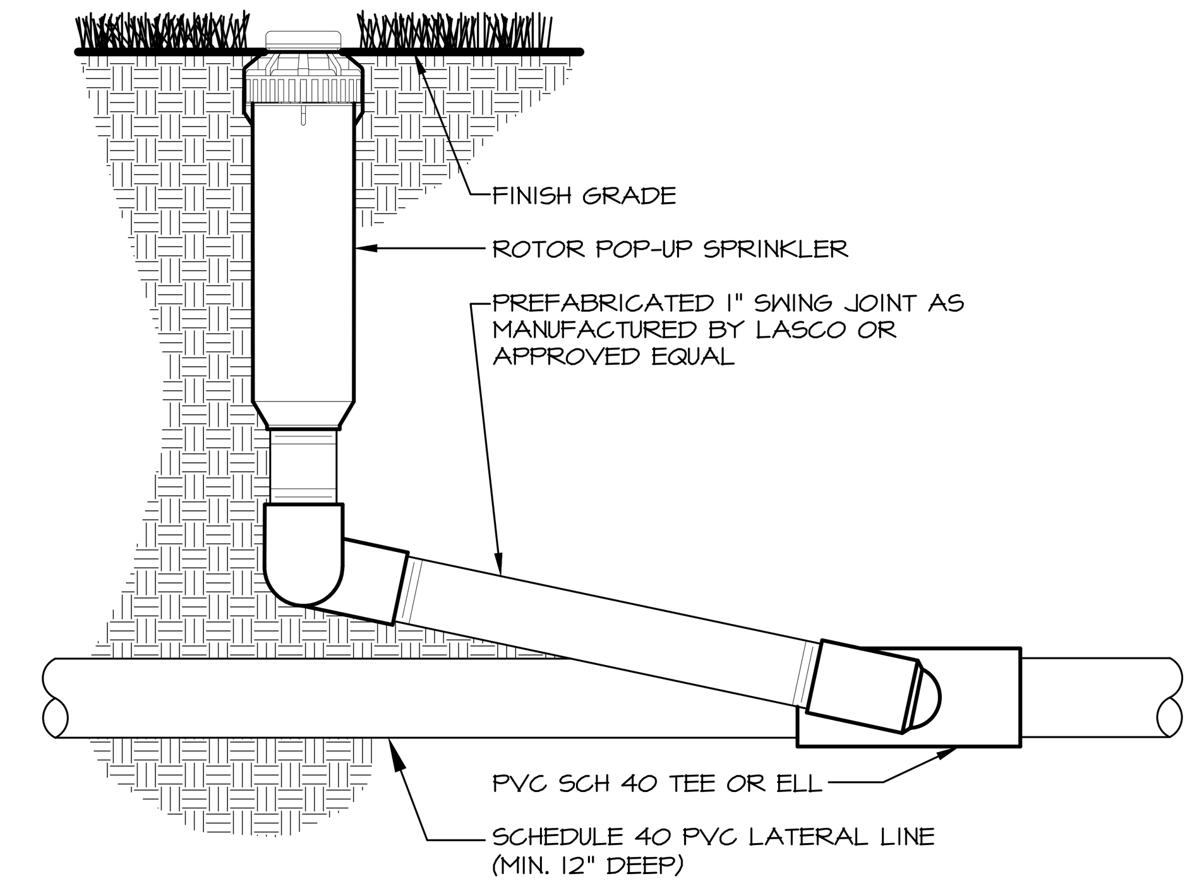


NOTE:
1. USE SCH. 80 PVC NIPPLES AND FITTINGS.
2. PROVIDE ALL FITTINGS AND HARDWARE AS REQUIRED. INSTALL PER MANUFACTURERS RECOMENDATIONS.

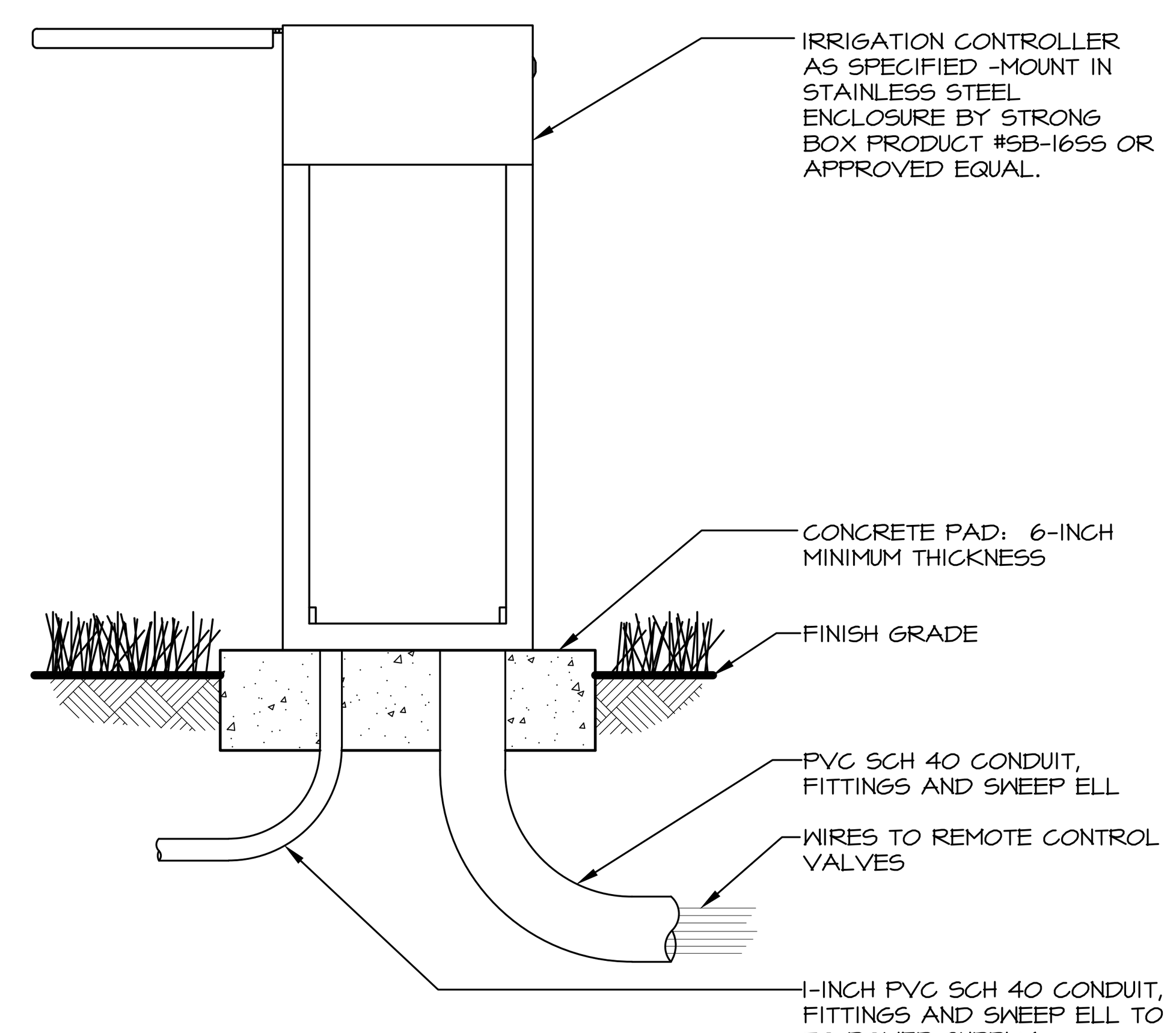
2 REMOTE CONTROL VALVE AT SADDLE TAP
NOT TO SCALE



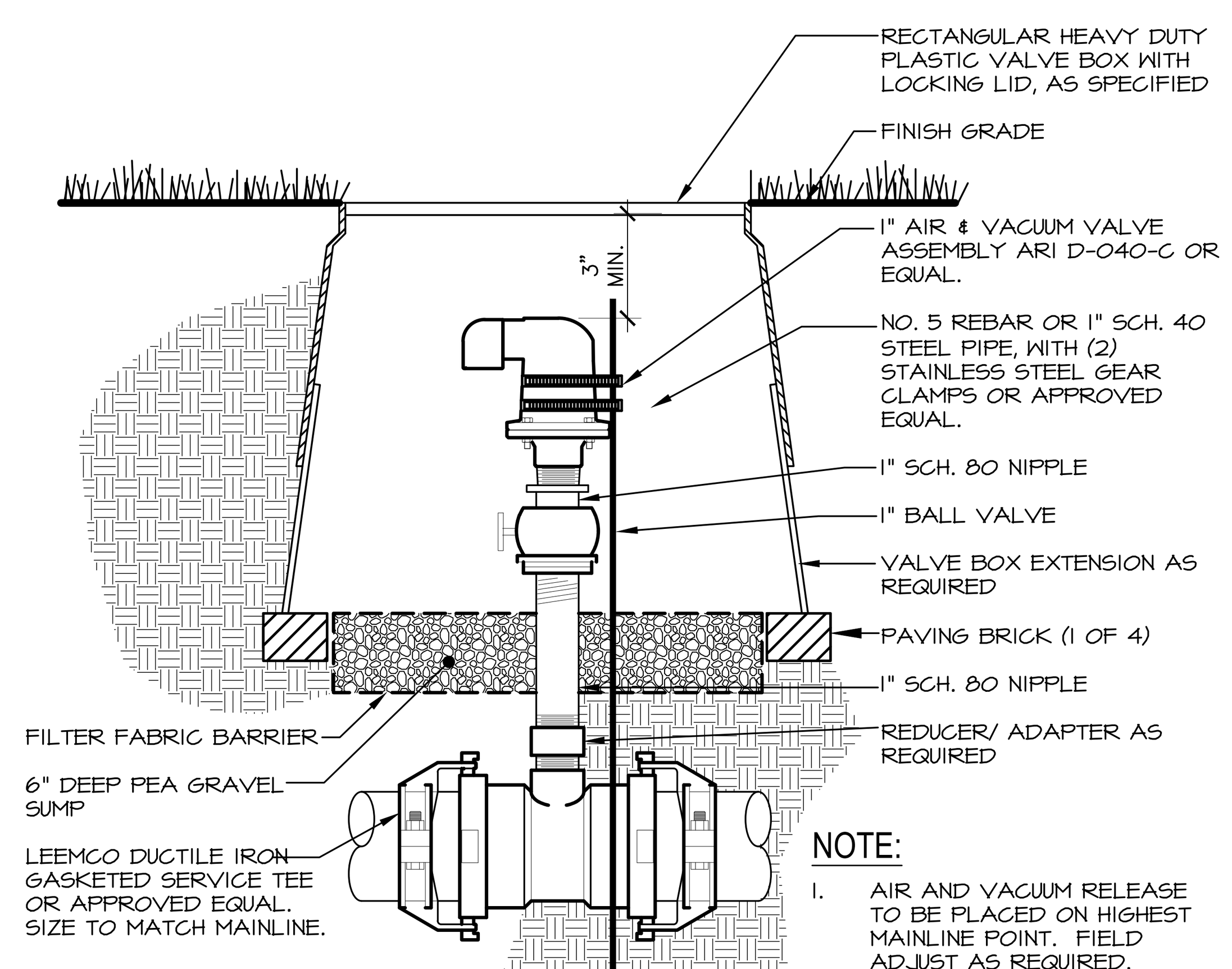
5 TRENCH SECTION
NOT TO SCALE



9 ROTOR POP-UP SPRINKLER
NOT TO SCALE

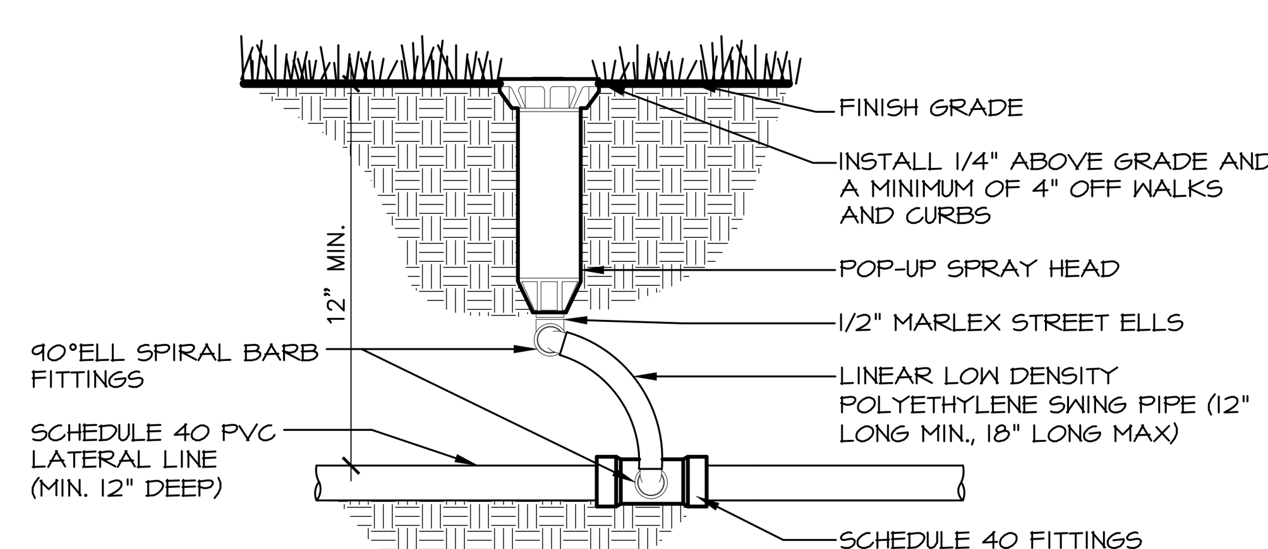


6 STAINLESS STEEL PEDESTAL CONTROLLER
NOT TO SCALE



NOTE:
1. AIR AND VACUUM RELEASE TO BE PLACED ON HIGHEST MAINLINE POINT. FIELD ADJUST AS REQUIRED.

3 AIR RELIEF VALVE
NOT TO SCALE



7 SPRAY HEAD POP-UP SPRINKLER
NOT TO SCALE

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS JUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.

AS AN EXAMPLE, IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE SIZE	BENDS				REDUCERS			DEAD END	
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.
2"	1'	1'	2'	6'	-	-	-	19'	6'
2.5"	1'	2'	4'	9'	4'	-	-	23'	10'
3"	2'	3'	6'	11'	8'	10'	-	30'	15'
4"	2'	4'	9'	20'	14'	20'	31'	45'	25'
6"	3'	6'	13'	29'	30'	40'	53'	63'	40'
8"	4'	8'	15	38'	33'	55'	63'	75'	70'
10"	5'	9'	19'	45'	36'	56'	75'	96'	90'
12"	5'	10'	21'	53'	38'	60'	83'	112'	110'

INSTALLATION CHART

REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS.
2"	2	3/8" x 2.5"	20
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
4"	2	1/2" x 3"	50
6"	2	1/2" x 3.5"	50
8"	4	1/2" x 4"	50
10"	4	5/8" x 5.5"	100
12"	4	5/8" x 5.5"	100

CONTACT TONY GARNER @ (208) 631-7787, THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS. COORDINATE AN INSTALLATION CLINIC WITH TONY GARNER PRIOR TO INSTALLING THE MAINLINE.

10 JOINT RESTRAINT NOTES
NOT TO SCALE

IRRIGATION NOTES

1. SYSTEM DESIGN BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 78 120 G.P.M WITH 78 P.S.I. AT THE SOURCE. CONTRACTOR TO FIELD VERIFY PRESSURE AND VOLUME AVAILABILITY ON SITE. IF THE SOURCE PRESSURE DOES NOT MEET THESE REQUIREMENTS CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CHANGE ORDER REQUIREMENTS.
2. ALL LATERAL LINES THAT ARE NOT LABELED SHALL BE 3/4" DIAMETER.
3. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
4. COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
5. CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND SLEEVES UNDER HARD SURFACES WITH RESPECTIVE CONTRACTORS.
6. ALL SLEEVES SHALL BE INSTALLED AS PART OF IRRIGATION CONTRACT. APPROXIMATE LOCATION OF SLEEVES ARE SHOWN ON THE IRRIGATION PLAN. FIELD VERIFY LOCATION. ALL ENDS OF SLEEVES SHALL BE TAPED OR CAPPED AND MARKED WITH A 2"X 4" PAINTED STAKE EXTENDING TO 24" ABOVE GRADE. STAKES SHALL NOT BE REMOVED UNTIL THE IRRIGATION SYSTEM IS COMPLETE. ALL SLEEVES SHALL EXTEND A MINIMUM OF 18" BEYOND BACK OF CURB OR EDGE OF PAVEMENT. PROVIDE COMPACTED BACKFILL AS NECESSARY AT HARD SURFACE LOCATIONS.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
8. IRRIGATION CONTROLLER(S) ARE TO BE LOCATED AS SHOWN ON THE PLAN. CONTROLLERS SHALL BE WIRED TO POWER SUPPLY BY A LICENSED ELECTRICIAN PER LOCAL CODES. IRRIGATION CONTRACTOR TO PROVIDE ALL REQUIRED CONNECTIONS TO 24 VOLT IRRIGATION CONTROL WIRE INSIDE THE BUILDING THROUGH APPROPRIATE SIZED CONDUIT.
9. ALL ELECTRICAL WORK TO MEET OR EXCEED N.E.C., STATE CODES, LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
10. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
11. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
12. ALL 24 VOLT POWER WIRES SHALL BE #14 AWG COPPER. ALL ABOVE GROUND 120 VOLT AND 24 VOLT WIRE SHALL BE IN PVC CONDUIT. ONE POWER WIRE SHALL BE PROVIDED BACK TO THE CONTROLLER FOR EACH VALVE. ALL COMMON WIRES SHALL BE #12 AWG COPPER. ALL 24 VOLT WIRES SHALL BE TAPED TOGETHER AT TEN FOOT (10'-0") INTERVALS.
13. INSTALLATION SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL LAWS AND ORDINANCES.
14. IRRIGATION CONTRACTOR SHALL PROVIDE A COMPLETE AS-BUILT DRAWING IN PDF FORMAT UPON COMPLETION OF INSTALLATION AND PRIOR TO FINAL PAYMENT.
15. THE ENTIRE SYSTEM SHALL BE GUARANTEED TO BE COMPLETE AND PERFECT IN EVERY DETAIL FOR A PERIOD OF ONE YEAR FROM THE DATE OF ITS ACCEPTANCE; REPAIR OR REPLACEMENT OF ANY DEFECTS OCCURRING WITHIN THE ONE YEAR SHALL BE FREE OF EXPENSE TO THE OWNER.
16. AS PART OF THIS CONTRACT, PERFORM AT NO EXTRA COST WINTERIZATION AND SPRING START UP OF THE SYSTEM DURING THE GUARANTEE PERIOD (ONE YEAR).
17. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF THE QUALITY AND PERFORMANCE SPECIFIED, AND SHALL MEET THE REQUIREMENTS OF THIS SYSTEM. USE MATERIALS AS SPECIFIED, NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN PERMISSION OF THE OWNER OR LANDSCAPE ARCHITECT.
18. IRRIGATION CONTRACTOR SHALL MAKE NECESSARY MINOR FIELD ADJUSTMENTS TO PIPE, AND OTHER IRRIGATION EQUIPMENT LOCATIONS TO FIT THE AS-BUILT SITE. ADJUST HEAD AND PIPE LOCATIONS AS REQUIRED TO AVOID DAMAGING EXISTING TREE ROOTS. ADJUSTMENTS SHALL ENSURE HEAD TO HEAD COVERAGE AND NOT OVERSPRAY THE BUILDING OR OTHER IMPROVEMENTS.
19. IRRIGATION PIPING LAYOUT IS SCHEMATIC. WHERE LINES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY SHALL BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL.
20. BASE PLAN AND LOCATION OF EXISTING EQUIPMENT ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL BASE AND EXISTING IRRIGATION ELEMENTS AND CONDITIONS PRIOR TO CONSTRUCTION AND PROVIDE NECESSARY ADJUSTMENTS.
21. ALL MAIN LINE FITTINGS SHALL BE LEEMCO DUCTILE IRON PUSH ON TYPE UNLESS NOTED FOR LATERAL SERVICE. (ON 3" OR LARGER ONLY)
22. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
23. ALL MAIN LINE FITTINGS SHALL BE SCHEDULE 40 SOLVENT WELD TYPE UNLESS NOTED FOR LATERAL SERVICE.
24. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
25. IRRIGATION DESIGN IS FOR SCHEMATIC USE ONLY, ALL VALVES AND BOXES ARE TO BE INSTALLED WITHIN PLANTER BEDS

CAUTION NOTICE

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

PRESSURE IRRIGATION SYSTEM NON-POTABLE WATER NOTES

1. ALL VALVE BOXES, QUICK COUPLER VALVES, SPRINKLER HEAD COVERS, AND AUTOMATIC CONTROL VALVES SHALL BE PURPLE TINTED IDENTIFICATION MATERIAL, MARKED WITH "DO NOT DRINK" WARNING.
2. INSTALL FINDER TAPE OVER ALL IRRIGATION MAINS. TAPE SHALL BE 2" WIDE, METALLIC RED IN COLOR, WITH THE WORDS "DANGER - UNSAFE WATER" OR "NON-POTABLE WATER" CLEARLY MARKED ALONG THE LENGTH OF THE TAPE. TAPE SHALL BE PLACED BETWEEN SIX INCHES (6") AND EIGHTEEN INCHES (18") BELOW THE SURFACE, DIRECTLY ABOVE THE TOP OF THE PIPE.

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BRECKON landdesign

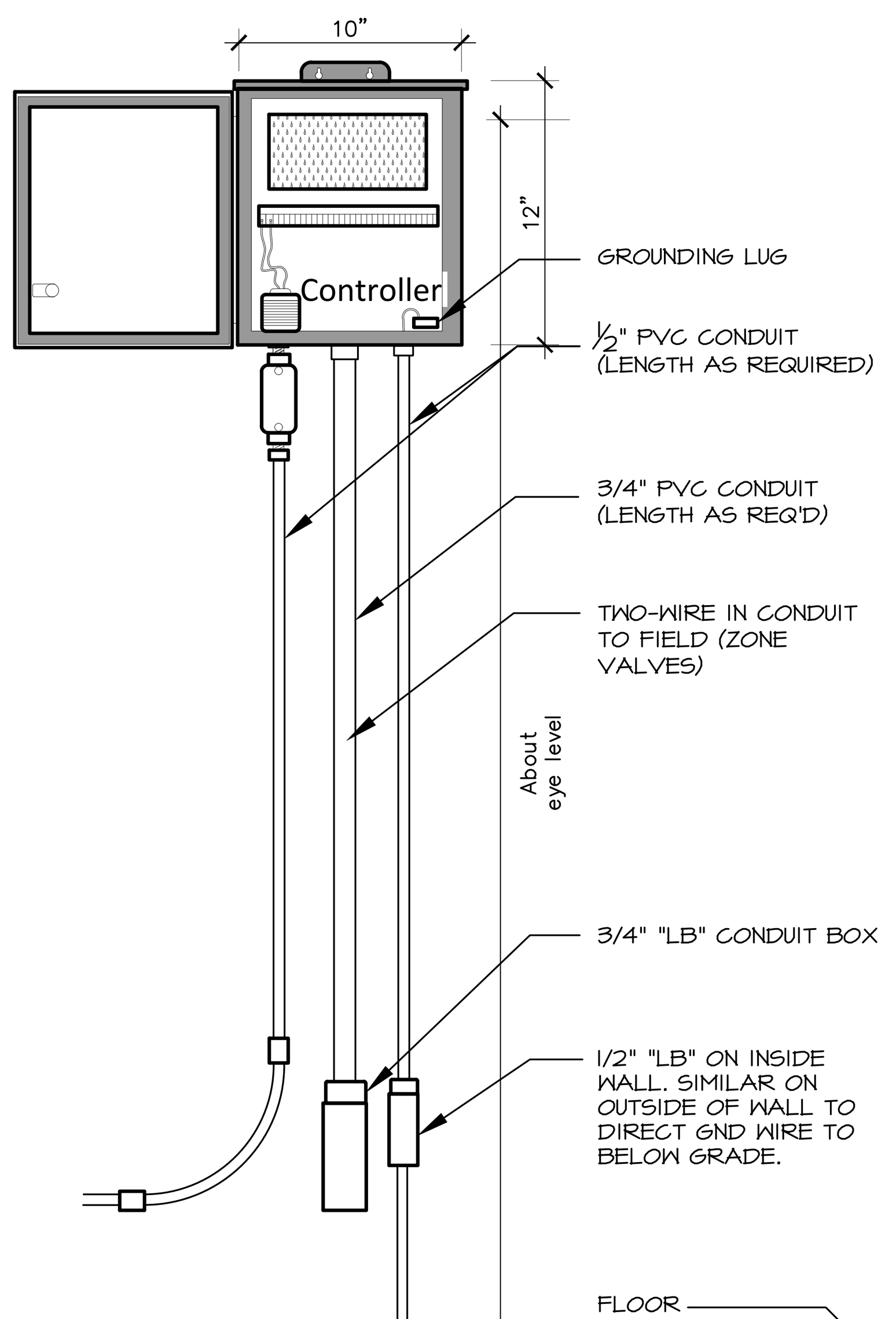
LICENSED LANDSCAPE ARCHITECT, STATE OF IDAHO
LA-16836
2/11/2022

Revisions
Description | Date

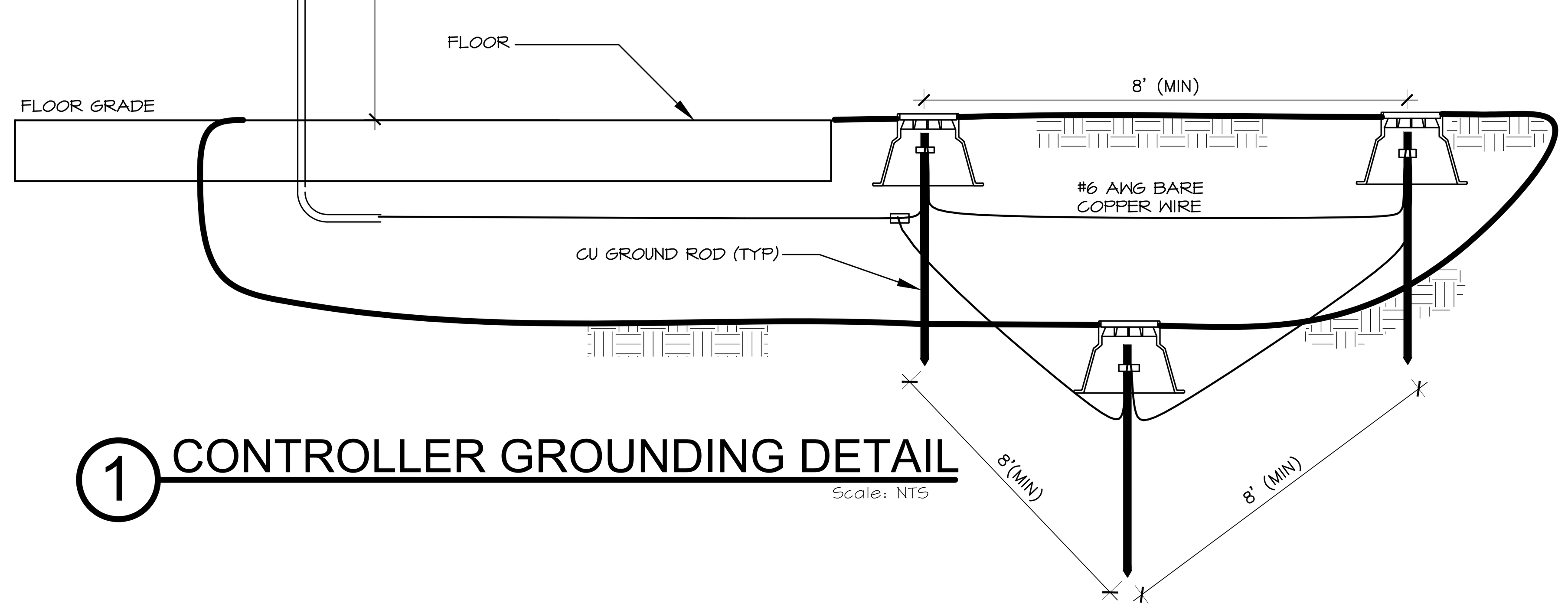
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB
BID SET
DRAWING NO.:
SL7.6
IRRIGATION DETAILS

S:_projects\2021\21114 jerome elementary\CAD\sheets\SL7.0 IRRIGATION PLAN.dwg plotted by: khancey on Fri, February 18 2022 at 11:57 AM

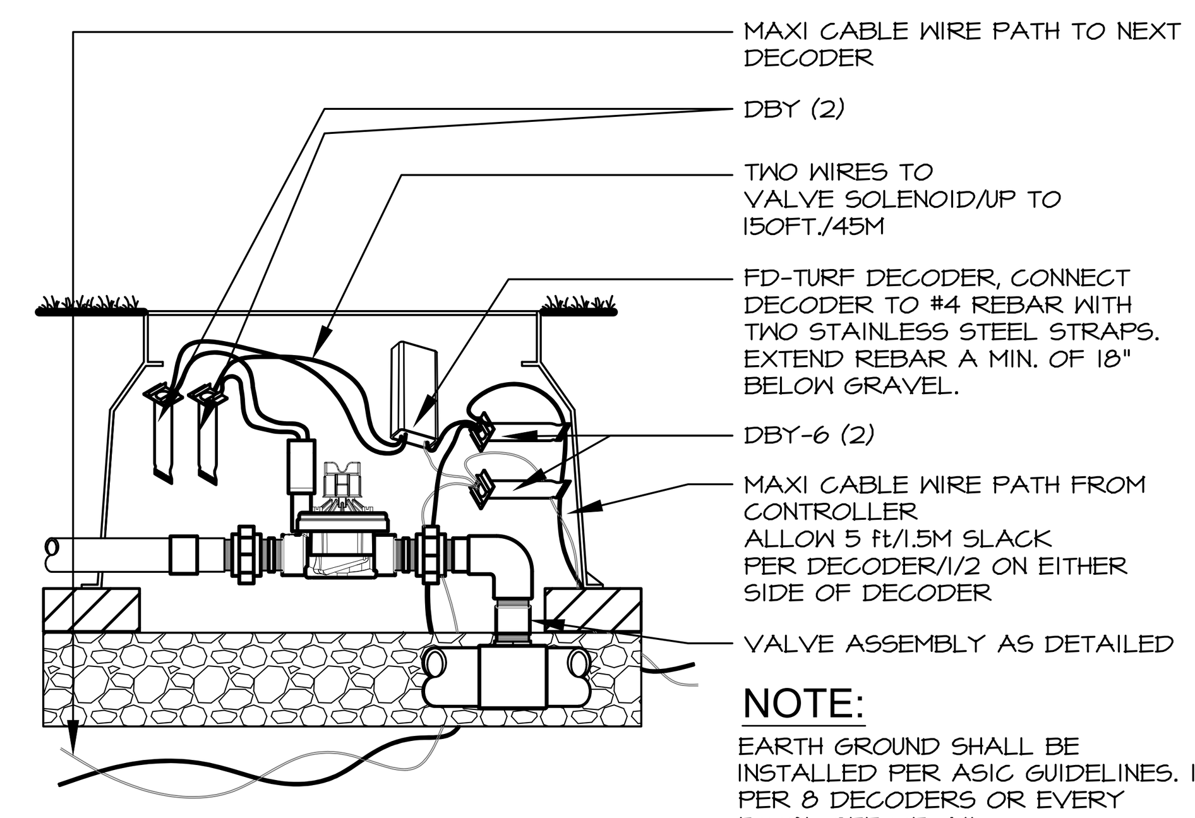


NOTE:
1. GROUNDING ROD PATTERN MAY BE USED WITH BL-LA01 BASELINE LIGHTNING ARRESTOR IN FIELD WIRING
2. GROUND RODS SHALL HAVE A MIN. DIA. OF 5/8" AND A LENGTH OF 10'. THE COPPER GROUNDING PLATES SHALL BE MADE ACCORDING TO THE MINIMUM REQUIREMENTS OF SECTION 250 OF THE NEC THEY ARE TO BE MADE OF COPPER ALLOY INTENDED FOR THE APPLICATION. THE WIRE IS TO BE CONNECTED TO AND THROUGH THE TOP OF THE GROUND ROD USING A CADWELD GT1161G "ONE-SHOT" WELDING KIT. DIFFERENT SOILS PRODUCE DIFFERENT RESISTENCE. THE EARTH-TO-GROUND RESISTANCE OF THIS CIRCUIT SHALL BE MEASURED USING A MEGGER OR OTHER SIMILAR INSTRUMENT, THE CRITICAL ELEMENT IS TO ACHIEVE 10 OHMS RESISTANCE AS A LOW CONDITION IF THE RESISTANCE IS MORE THAN 5 OHMS, THEN ADDITIONAL POWERSET SHALL BE INSTALLED IN THE DIRECTION OF THE IRRIGATION AREA. TO PREVENT THE ELECTRODE-DISCHARGED ENERGY FROM RE-ENTERING THE UNDERGROUND WIRES AND CABLES, ALL ELECTRODES SHALL BE INSTALLED AWAY FROM SAID WIRES AND CABLES. THE SPACING BETWEEN ANY TWO ELECTRODES SHALL BE 16 TO 20 FEET SO THAT THEY DON'T COMPETE FOR THE SAME SOIL. ALL GROUND CIRCUIT CONNECTIONS SHALL BE MADE USING AN EXOTHERMIC WELDING PROCESS BY UTILIZING PRODUCTS SUCH AS THE CADWELD "ONE-SHOT" KITS. SOLDER SHALL NOT BE ALLOWED TO MAKE CONNECTIONS. THE WIRES ARE TO BE INSTALLED IN AS STRAIGHT OF A LINE AS POSSIBLE, AND IF IT IS NECESSARY TO MAKE A TURN OR A BEND IT SHALL BE DONE IN A SWEEPING CURVE RATHER THAN A SHARP BEND. MECHANICAL CLAMPS SHALL BE PERMITTED TEMPORARILY DURING THE RESISTANCE TEST PROCESS, BUT SHALL BE REPLACED WITH CADWELD "ONE-SHOT" KITS IMMEDIATELY THEREAFTER. IT IS RECOMMENDED THAT THE SOIL SURROUNDING ALL THE COPPER ELECTRODES BE KEPT AT A MINIMUM MOISTURE LEVEL OF 15%. THE USE OF SALTS, FERTILIZERS, AND OTHER CHEMICALS SHALL NOT BE ALLOWED IN AN EFFORT TO IMPROVE SOIL CONDUCTIVITY BECAUSE THESE MATERIALS ARE CORROSIVE AND WILL CAUSE THE COPPER ELECTRODES TO BECOME INEFFECTIVE.



1 CONTROLLER GROUNDING DETAIL

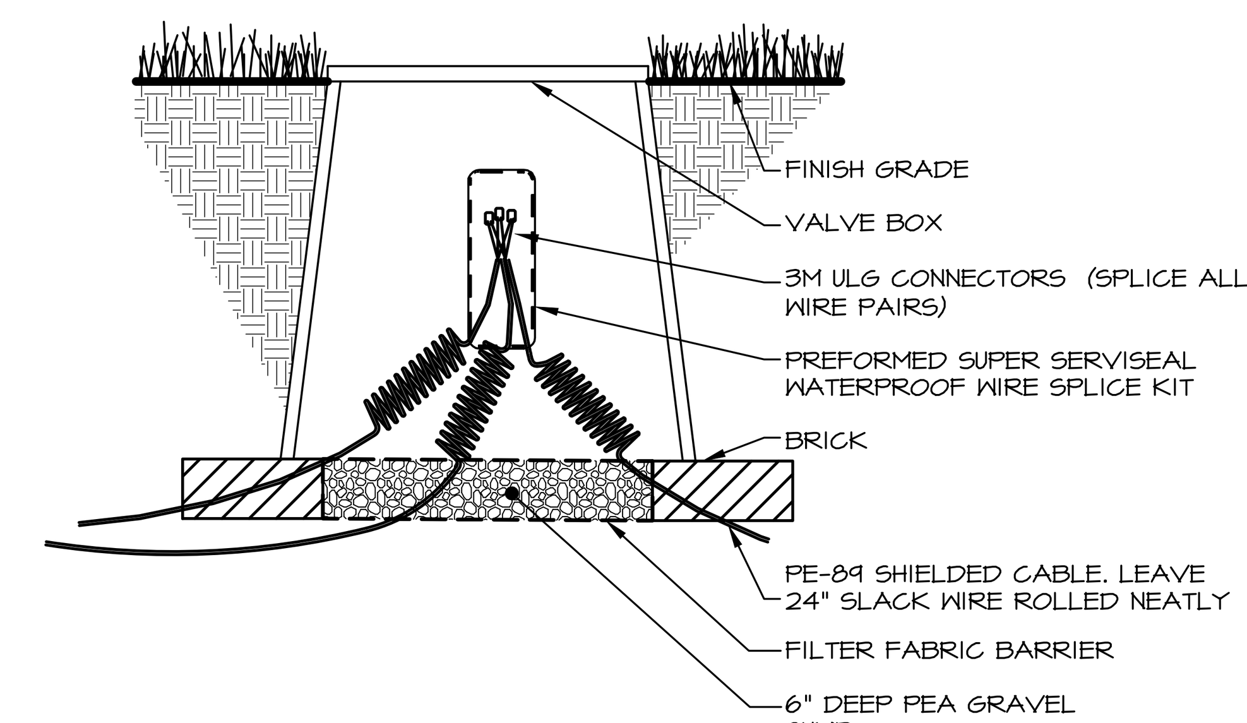
Scale: NTS



NOTE:
EARTH GROUND SHALL BE INSTALLED PER ASIC GUIDELINES. 1 PER 8 DECODERS OR EVERY 500ft. SEE DETAIL.

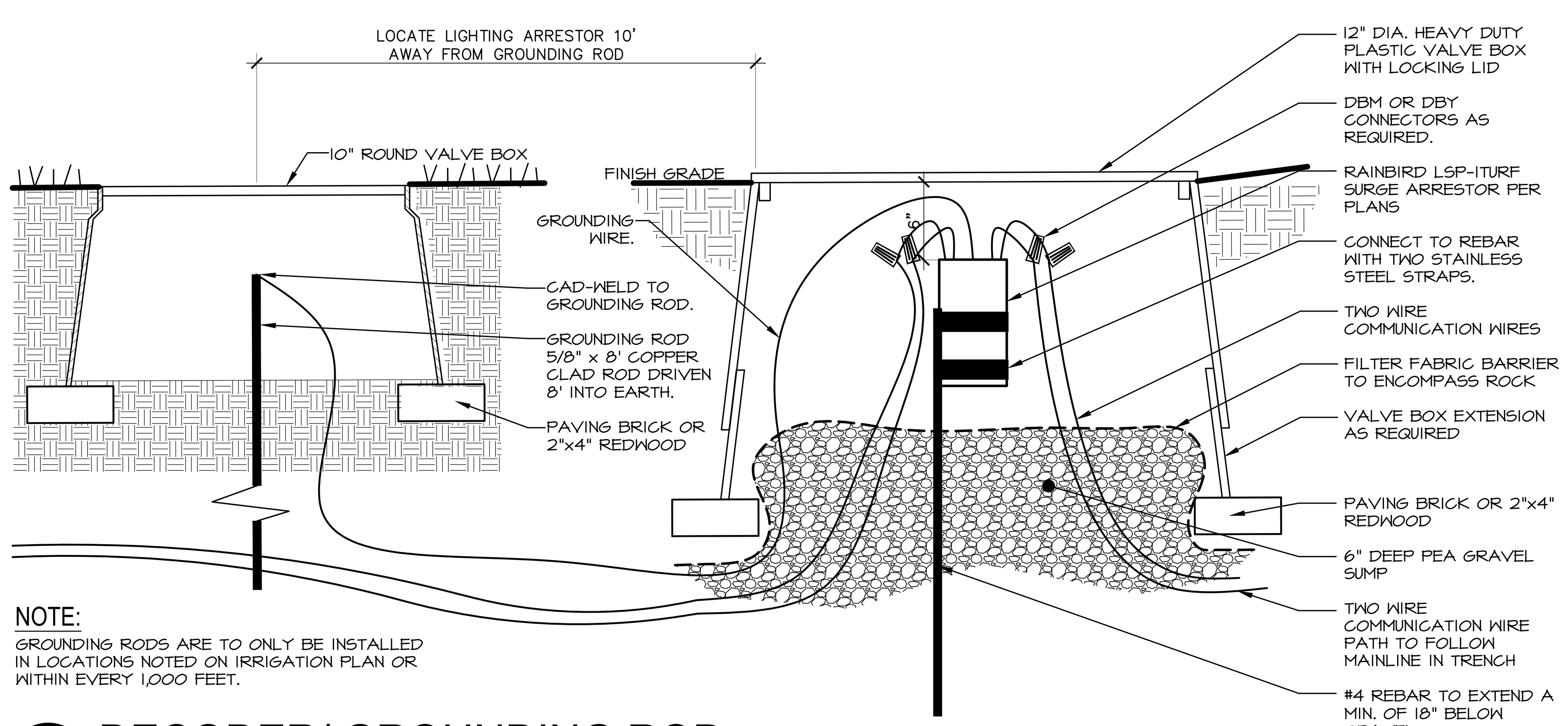
3 FD-TURF DECODER WIRING AT CONTROL VALVE

Scale: NTS



4 WIRE SPLICE

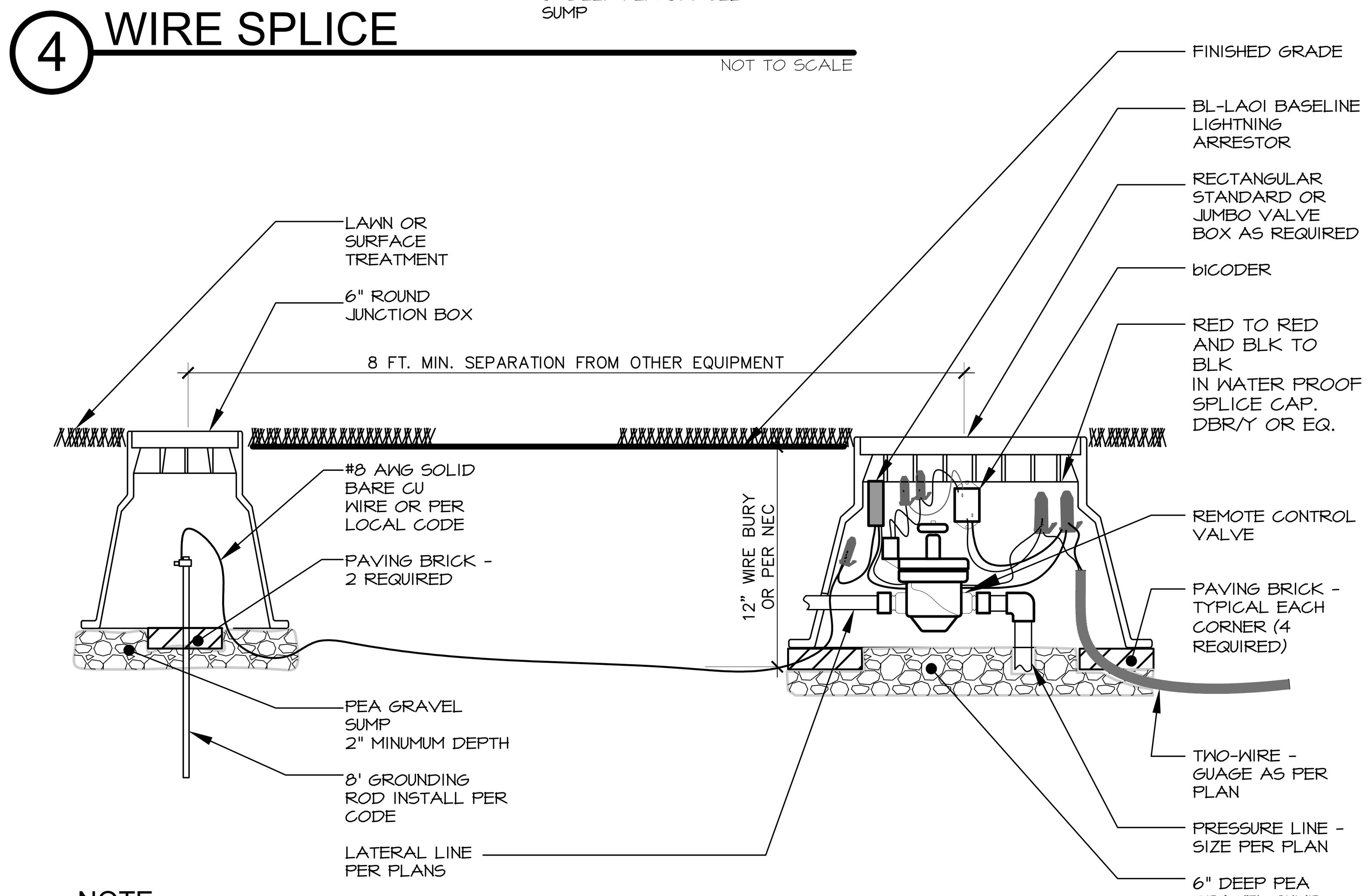
NOT TO SCALE



NOTE:
GROUNDING RODS ARE TO ONLY BE INSTALLED IN LOCATIONS NOTED ON IRRIGATION PLAN OR WITHIN EVERY 1,000 FEET.

2 DECODER/ GROUNDING ROD ASSEMBLY

NOT TO SCALE



NOTE:
1. WATERPROOF CONNECTORS 3M DBR/Y OR EQUAL TO BE INSTALLED IN VERTICLE POSITION AS SHOWN.
2. THIS BOX MAY BE A VALVE BOX OR A ROUND BOX. IF A VALVE BOX WITH VALVE, CONNECT BICODER FOR VALVES TO TWO-WIRE AND WIRE FROM BL-LA01

5 LIGHTNING ARRESTOR

Scale: NTS

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2400 E. Riverwalk Drive
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www.lkvarchitects.com
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BRECKON landdesign

STATE OF IDAHO — LICENSED LANDSCAPE ARCHITECT — LA-16836 — 2/11/2022

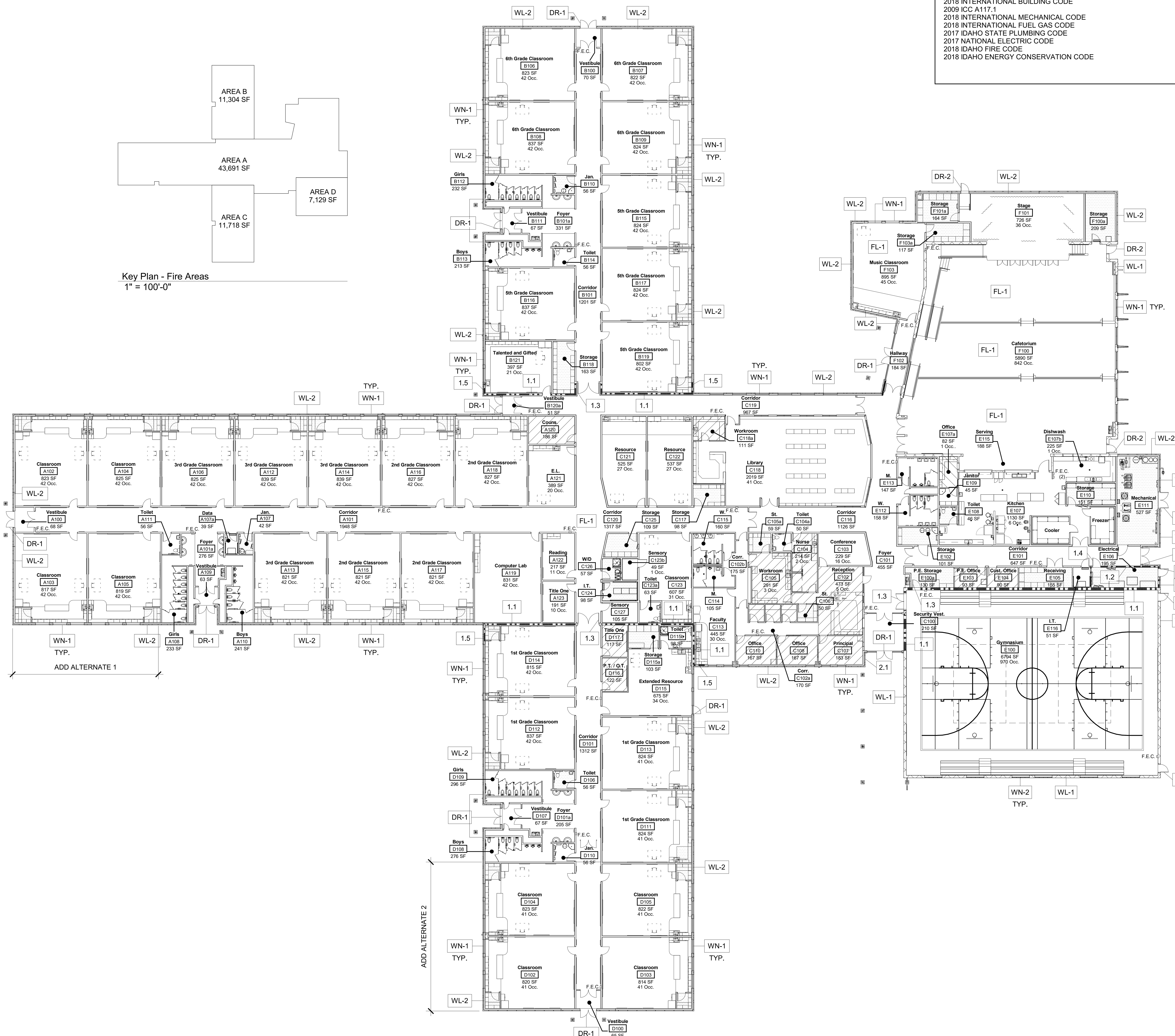
Revisions
Date
Description

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 2/11/2022
LKV PROJECT #: 2120
BLD PROJECT #: 21114
DRAWN BY: CP
CHECKED BY: JB

BID SET

DRAWING NO.:
SL7.7
IRRIGATION DETAILS



1 FLOOR PLAN - CODE PLAN
1" = 20'-0"

Applicable Codes

2018 INTERNATIONAL BUILDING CODE
2009 ICC A117.1
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2017 IDAHO STATE PLUMBING CODE
2017 NATIONAL ELECTRIC CODE
2018 IDAHO FIRE CODE
2018 IDAHO ENERGY CONSERVATION CODE

Building Code Compliance Summary

OCCUPANCY GROUP	GROUP E, EDUCATIONAL (S-1 ACCESSORY)	
CONSTRUCTION TYPE	V-B CONBUSTIBLE, BUILDING ELEMENTS NON RATED EXCEPT AS INDICATED OTHERWISE.	
BUILDING AREA	ACTUAL	ALLOWED
AREA A	7121 SF	45,125
AREA B	43759 SF	45,125
AREA C	11245 SF	45,125
AREA D	11844 SF	45,125
TOTAL AREA	73932 SF	
SPACE	S.F./OCC.	OCCUPANTS
CLASSROOMS	20 NET	1,439
LIBRARY	50 NET	41
CAFETERIA	7 NET	842
KITCHEN	200 GROSS	6
GYMNASIUM	7 NET	970
OFFICE/SUPPORT	100 GROSS	22
CONFERENCE/FACULTY	15 NET	46
STORAGE/ACCESSORY	300 GROSS	13
TOTAL		3,379

ALLOWABLE AREA CALCULATIONS

Aa = Allowable Area	Aa = At + (NS x If)
At = Tabular Area Factor 38,000 s.f. per TABLE 506.2	Aa = 38,000 s.f. + (9,500 s.f. x .75) Aa = 38,000 s.f. + 7,125 s.f.
NS = Tabular Area 9,500 s.f. per TABLE 506.2	Aa = 45,125 s.f.

BUILDING STORIES	ONE
BUILDING HEIGHT (MAX.)	28'-0"
EXTERIOR WALL RATING	NOT REQUIRED (FIRE SEPARATION DISTANCE > 10')
FIRE WALLS	WHERE SHOWN (2-HOUR)
DRAFTSTOPPING	NOT REQUIRED (WITH AUTOMATIC SPRINKLER SYSTEM THROUGHOUT)
FIRE PROTECTION SYSTEMS	AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT FIRE ALARM SYSTEM WITH AUDIBLE VOICE EVACUATION AND VISIBLE ALARMS THROUGHOUT
EXITS	(18) TOTAL, (10) FROM CORRIDORS, (8) FROM ROOMS
CORRIDOR CONSTRUCTION	NON-RATED (WITH AUTOMATIC SPRINKLER SYSTEM THROUGHOUT)
TRAVEL DISTANCE (MAXIMUM)	<250 FT. TO EXIT (WITH AUTOMATIC SPRINKLER SYSTEM THROUGHOUT)
COMMON PATH OF EGRESS TRAVEL (MAXIMUM)	<75 F. TO (2) PATHS OF EGRESS
DOORS	36" LEAFS WITH SWING AS SHOWN (OUTSWING REQUIRED WHERE OCCUPANT LOADS EXCEEDS 49)
DOOR HARDWARE	ADA COMPLIANT (PANIC HARDWARE REQUIRED WHERE OCCUPANT LOAD EXCEEDS 49)
ACCESSIBILITY	ACCESSIBLE ROUTE CONSISTING ON ADA COMPLIANT CORRIDORS, DOORWAYS, SHELVING, HARDWARE, FIXTURES, ELECTRICAL DEVICES, AND SIGNAGE
RATED CONSTURCTION	ONE AND TWO HOUR WALLS PER REFERENCED FIRE-RATED ASSEMBLIES. SEE BUILDING CODE REFERENCE NOTES
FIRE EXINGUISHER CABINET (F.E.C.)	WHERE SHOWN

General Notes

1. REFER TO UNDERWRITERS LABORATORIES INC. FIRE RESISTANCE DIRECTORY, GYPSUM ASSOCIATION FIRE RATED ASSEMBLY MANUAL, AND 2015 INTERNATIONAL BUILDING CODE FOR COMPLETE DESCRIPTION OF REFERENCED FIRE RATED ASSEMBLY MATERIAL AND INSTALLATION REQUIREMENTS.
2. DUCT AND MISCELLANEOUS PENETRATION OPENINGS IN FIRE RATED STEEL STUD WALLS SHALL BE WRAPPED WITH GYPSUM BOARD OF SAME TYPE AND TOTAL THICKNESS AS FACE OF WALL.
3. RE: DETAILS ON SHEET A1.3 FOR DETAILS AT FIRE WALL.
4. RE: MECHANICAL DRAWING SHEET M0.1 FOR BUILDING ENERGY MODEL.

Fire Rated Assemblies

1.1	2-HOUR CONCRETE MASONRY UNIT WALL ASSEMBLY: CONCRETE MASONRY UNIT CONSTRUCTION 3-1.4 PER I.B.C. TABLE 720.1. ALL CELLS GROUTED SOLID OR FILLED WITH SILICONE TREATED LOOSE FILL INSULATION. REQUIRED THICKNESS: 7 5/8", ACUTAL THICKNESS 11 5/8".
1.2	1-HOUR WOOD STUD AND GYPSUM BOARD WALL / CEILING ASSEMBLY: U.L. DESIGN NO. U-314. ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD BOTHS SIDES, MINIMUM 2X4 WOOD STUDS AT 24" O.C. WITH 6d COATED NAILS, 7" O.C. INTERIOR WALL RATING. (2) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON EACH SIDE OF STUDS. APPLY GYPSUM BOARD TO STUDS VERTICALLY. STUD CAVITIES FILLED WITH U.L. RATED GLASS FIBER BATT INSULATION.
1.3	1 1/2 HOUR RATED DOOR ASSEMBLY.
1.4	3/4 HOUR RATED DOOR ASSEMBLY.
1.5	5/8" EXTERIOR GRADE GYPSUM WALL SHEATHING 4'-0" BEYOND FIRE WALL EACH SIDE. SEE SHEET A1.3.
2.1	FIRE DEPARTMENT - KNOX BOX

Energy Analysis Reference Notes

SEE THERMAL ENVELOPE ASSEMBLIES BELOW. SEE WALL SECTIONS AND WALL TYPES FOR CONSTRUCTION DETAILS.

FL1	4" CONCRETE SLAB ON GRADE.
WL1	12" MASONRY WALLS 8" HIGH WITH HI-R BLOCK INSERTS.
WL2	6" WOOD STUDS WITH 5 1/2 INCHES OF CAVITY INSULATION AND MASONRY VENEER. (R-21)
WN1	FIXED ALUMINUM WINDOWS WITH TINTED LOW-E INSULATING GLASS.
WN2	KALWALL
DR1	ALUMINUM DOOR AND FRAME WITH TINTED LOW-E INSULATING GLASS.
DR2	INSULATED HOLLOW METAL DOOR AND STEEL FRAME.

PLUMBING FIXTURES

TOTAL OCCUPANT LOAD
EDUCATIONAL: 1567
ASSEMBLY: 1812

EDUCATIONAL:		ASSEMBLY:			
WATER CLOSETS @ 1:50	REQUIRED	WATER CLOSETS	REQUIRED	TOTAL REQ.	PROVIDED
BOYS	16	BOYS @ 1:125	8	24	29
GIRLS	16	GIRLS @ 1:65	14	30	30
LAVATORIES @ 1:50	REQUIRED	LAVATORIES	REQUIRED	TOTAL REQ.	PROVIDED
BOYS	16	BOYS @ 1:200	5	21	29
GIRLS	16	GIRLS @ 1:200	5	21	29
DRINKING FOUNTAINS @ 1:100	REQUIRED 15	DRINKING FOUNTAINS @ 1:500	REQUIRED 4	TOTAL REQ. 19	PROVIDED 8 HI-LO UNITS 34 CLASSROOM UNITS

LKV ARCHITECTS
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208.336.3443

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:
A1.1
CODE PLAN

Symbols and Abbreviations

GRID LINE (NUMBERS & LETTERS)

SECTION LETTER — **BUILDING SECTION** — SHEET NUMBER

SECTION NUMBER — **WALL SECTION** — SHEET NUMBER

DETAIL NUMBER — **DETAIL** — SHEET NUMBER

ELEVATION NUMBER — **BUILDING ELEVATION** — SHEET NUMBER

ELEVATION NUMBER/LETTER — **INTERIOR ELEVATION** — SHEET NUMBER

NAME

GRID LINE AREA LETTER / ROOM NUMBER

REFERENCE NOTE (NUMBER)

DOOR (NUMBER) (SEE DOOR SCHEDULE)

WINDOW (LETTER) (SEE WINDOW SCHEDULE)

ACCESSORY (NUMBER)

REVISION (NUMBER)

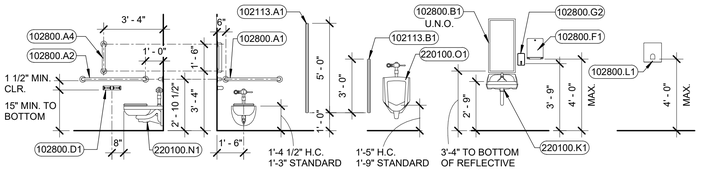
PARTITION TYPE (LETTER/NUMBER)

(LETTER/NUMBER) **MATCHLINE**

SPECIFICATION KEYED NOTE SPEC. SECTION ITEM DESIGNATION

AB	ANCHOR BOLT
L	ANGLE
BRG.	BEARING
B.M.	BENCH MARK
BLDG.	BUILDING
CLG.	CEILING
	CENTERLINE
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
D.F.	DRINKING FOUNTATION
DIM.	DIMENSION
EA.	EACH
ELECT.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXT.	EXTERIOR
FIN.	FINISH
F.E.C.	FIRE EXTINGUISHER CABINET
FLR.	FLOOR
F.R.T.	FIRE RETARDENT TREATED
FTG.	FOOTING
FDN.	FOUNDATION
GALV.	GALVANIZED
GA.	GAUGE
GL.	GLASS
G.B.	GYPSUM BOARD
GRD.	GRADE
HT.	HEIGHT
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
INT.	INTERIOR
MAX.	MAXIMUM
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
d	PENNY
PLWD.	PLYWOOD
P.T.	PRESSURE TREATED
R	RADIUS
REF.	REFERENCE
REV.	REVISION
R.D.	ROOF DRAIN
SIM.	SIMILAR
S.C.	SOLID CORE
SPEC.	SPECIFICATION
SQR.	SQUARE
STD.	STANDARD
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
T.O.	TOP OF
T & B	TOP AND BOTTOM
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.C.T.	VINYL COMPOSITION TILE
W.C.	WATER CLOSET
WWM.	WELDED WIRE MESH
W/	WITH
W/O	WITHOUT

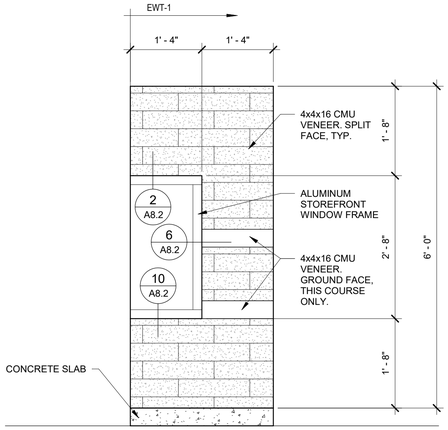
Toilet Room Fixture and Accessory Mounting Requirements



NOTES:
1. IF PAPER TOWEL DISPENSER IS ABOVE GRAB BAR, 12" MIN. MUST BE MAINTAINED BETWEEN THE TOP OF GRAB BAR AND THE BOTTOM OF THE PAPER TOWEL DISPENSER.
2. COORDINATE VALVE HEIGHTS WITH PLUMBING AND GRAB BARS.
3. FOR ACTUAL RESTROOM LAYOUT AND CONFIGURATIONS, SEE INDIVIDUAL RESTROOM ELEVATIONS.
4. SEE RESTROOM ELEVATIONS FOR OWNER FURNISHED ITEMS.
5. 4'-0" MAX. MOUNTING HEIGHT FOR PAPER PRODUCT DISPENSERS AND HAND DRYERS IS TO HIGHEST POINT OF REQUIRED REACH FROM FINISHED FLOOR LEVEL.

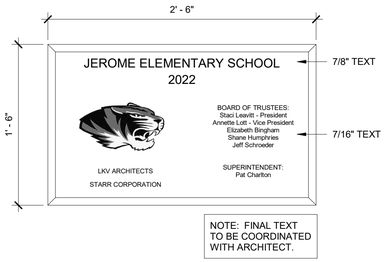
Mounting Heights

MIRRORS	+ 40" MAX. A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
GRAB BARS	+ 34 1/2" A.F.F. TO CENTER
TOILET PAPER DISPENSER	+ 15" A.F.F. MIN. TO BOTTOM
PAPER TOWEL DISPENSER	+ 48" A.F.F. MAX. TO DISPENSER OPENING
SOAP DISPENSER	+ 45" A.F.F. TO TOP OF DISPENSER
MARKER BOARDS	+ 6'-8" A.F.F. TO TOP
TACK BOARDS	+ 6'-8" A.F.F. TO TOP
INTERIOR SIGNS	+5'-0" A.F.F. TO TOP, 3" FROM DOOR FRAME, LATCH SIDE OF DOOR
FIRE EXTINGUISHER CABINETS	+4'-4" A.F.F. TO TOP
MOP SHELF / HOLDER	+6'-0" A.F.F. TO TOP



NOTE: MOCK-UP SHALL INCLUDE ALL SPECIFIED COMPONENTS PER APPLICABLE DETAILS.

1 MOCK UP
3/4" = 1'-0"



NOTE: FINAL TEXT TO BE COORDINATED WITH ARCHITECT.

2 BRONZE PLAQUE
1 1/2" = 1'-0"

Master Keyed Notes

033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C2	CONCRETE SLAB ON GRADE (EXTERIOR), 4" U.N.O.
033000.C4	CONCRETE SLAB ON DECK.
033000.D1	CONCRETE WALL
033000.M1	VAPOR RETARDER
033000.N1	BITUMINOUS DAMPROOFING, (2) COATS
034500.A1	CONCRETE SILL
042000.A1	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 8X8X16
042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.A4	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X4X16
042000.A8	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 10X8X16
042000.B1	CONCRETE MASONRY UNIT(S) SPLIT FACE, 8X8X16
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
042000.B4	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X4X16
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C4	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
042000.D1	SOLID GROUT
042000.D2	SOLID GROUT BOND BEAM
042000.E1	CONTROL JOINT WITH PREFORMED GASKETING
042000.F1	CAVITY DRAINAGE MATERIAL
042000.G2	ANCHOR BOLT, GALV.
042000.H1	WEEP VENT TUBING
042000.J1	MASONRY-CELL INSULATION
042000.K1	
042113.F1	ANCHOR BOLT(S)
051200.A1	STEEL BEAM
051200.B1	STEEL COLUMN
051200.I1	STEEL TUBE
052100.A1	OPEN WEB STEEL ROOF JOIST(S)
053100.A1	STEEL ROOF DECK, 1 1/2", 20 GUAGE, TYPE B UNO.
054000.A1	STEEL CEE STUD(S) 3 5/8", 20 GA. @ 24" O.C., U.N.O.
054000.A2	STEEL STUD(S) 6", 16 GA. @ 16" O.C., U.N.O.
054000.B1	STEEL CEE RUNNER 3 5/8" 20 GA. CONTINUOUS
054000.C1	STEEL STUD TRACK, SAME WIDTH AND GUAGE AS STUDS U.N.O.
054000.F1	STEEL CEE BLOCKING
054000.I1	
055000.A1	ROUGH HARDWARE
055000.B1	STEEL LADDER
055000.C1	PIPE BOLLARD
055000.D1	BOLT(S)
055000.E1	WELD
055000.G1	STEEL TUBE DOWNSPOUT. 4"X4"X1/8" STEEL TUBE. PRIME & PAINT.
055000.G2	2 1/2" X 4" X 3/16" X 3" LONG STEEL 'L' CLIPS. WELD TO DOWNSPOUTS BOTH SIDES. MINIMUM (3) EQUALLY SPACED W/ 5/8" DIA. X 3" EXP. BOLTS - PAINT.
055000.I1	STEEL GRATING
055000.J1	STEEL PLATE
055000.K1	STEEL ANGLE
055000.L1	STEEL TUBE
055000.P1	STEEL ROOF LADDER
055213.A1	STEEL PIPE / TUBE GUARDRAIL, MIN. OUTSIDE DIA. 1 1/2"
055213.A2	STEEL PIPE HANDRAIL, MIN. OUTSIDE DIA. 1 1/2"
061000.A1	DIMENSION LUMBER
061000.A2	WOOD STUD(S) 2X6 @ 16" O.C., U.N.O.
061000.A3	WOOD STUD(S) 2X4 @ 16" O.C., U.N.O.
061000.A5	2X P.T. WOOD SILL PLATE TO MATCH STUD WIDTH, U.N.O.
061000.A8	SOLID BLOCKING / BRIDGING
061000.A9	DIMENSION LUMBER BEAM / HEADER / LEDGER
061000.A12	WOOD STUD(S) 2X12 @ 16" O.C., U.N.O.
061000.A13	WOOD STUD(S) 2X10 @ 16" O.C., U.N.O.
061000.B2	WOOD JOIST(S) 2X6 @ 16" O.C., U.N.O.
061600.A1	SHEATHING, MISC. (TYPE AND THICKNESS INDICATED)
061600.A2	ROOF SHEATHING, SEE STRUCTURAL DRAWINGS.
061600.A4	WALL SHEATHING, SEE STRUCTURAL DRAWINGS.
061600.C1	GYPSUM SHEATHING BOARD, 5/8"
061753.A3	PRE-ENGINEERED WOOD ROOF TRUSS(ES) - PARALLEL CHORD - 24" O.C. U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
064023.A1	WOOD TRIM / MOLDING
064116.A1	3/4" MELAMINE COATED PARTICLE BOARD
064116.A2	1/2" MELAMINE COATED PARTICLE BOARD
064116.B1	3/4" PLYWOOD, EXTERIOR GRADE
064116.C1	3/4" PARTICLE BOARD
064116.C2	1/2" PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.E2	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 1" PARTICLE BOARD W/ H.P. DECORATIVE LAMINATE
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.F2	HANGING FILE TRACK
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
064116.H1	COAT HOOK
064116.I1	CYLINDER LOCK
064116.J1	HANGER ROD
064116.N2	1/4" PLEXIGLASS SHELVES
064116.O1	4" DIA. PIVOTING CASTER(S)
064116.P1	PLASTIC VENTILATION LOUVER
064116.Q1	STEEL ANGLE COUNTER SUPPORTS, MIN. 2'-6" O.C.
072100.A1	FOUNDATION / WALL INSULATION - EXTRUDED POLYSTYRENE, 2" U.N.O.
072100.A3	CLOSED CELL SPRAY POLYURETHANE FOAM
072100.B4	THERMAL & ACOUSTICAL FIBER GLASS INSULATION, UNFACED 5 1/2
072165.A1	THERMAX XARMOR WALL SYSTEM, 2 1/2"
072165.B1	LIQUID SPRAY FLASHING
072165.C1	FASTENER
072165.D1	PENETRATION FILLER
072165.E1	FLEXIBLE POLYETHYLENE FOAM GASKET STRIP
072700.A1	BUILDING WRAP
072700.B1	FLEXIBLE FLASHING
074213.A1	METAL WALL PANEL(S)
074213.B1	METAL WALL PANEL TRIM
074213.S1	SILICONE SEALANT PER MFR.
074243.A1	FIBER CEMENT SIDING PANELS.
074243.B1	STARTER CLIP
074243.B2	
074243.D1	
075423.A1	SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
075423.B1	ADHERED SINGLE-PLY MEMBRANE FLASHING
075423.B2	SA STRIPPING
075423.C2	TYPICAL PERIMETER FASTENERS
075423.D1	RIGID ROOF INSULATION - POLYISOCYANURATE, (2) LAYERS, 2 1/2"
075423.D2	TAPERED ROOF INSULATION - EPS BOARD
075423.D3	TAPERED ROOF INSULATION - POLYISO TAPERED SYSTEM
075423.E1	VAPOR RETARDER
075423.F1	SUBSTRATE BOARD, 1/2"
075423.F2	
075423.F3	
075423.J1	FASTENER(S)
075423.K1	TERMINATION BAR
075423.K2	PIPE CLAMP
076200.A1	FLASHING & SHEET METAL
076200.B1	CONTINUOUS CLEAT, 20 GA. GAVL. FASTEN AT MIN. 12" O.C.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
076200.C2	PRE-FINISHED METAL FLASHING, 24 GA.
076200.C4	PRE-FINISHED METAL FASCIA, 24 GA.
076200.C5	SURFACE MOUNTED 2-PIECE 24 GA. REGLET & COUNTERFLASHING ASSEMBLY
076200.C6	2-PIECE PRE-FINISHED 24 GA. MASONRY REGLET & COUNTERFLASHING ASSEMBLY., LET-IN
076200.F1	FASTENER
076200.F2	
076200.G1	BASE FLASHING, 26 GA. GALV.
076200.H2	JOINT SPLICE
077200.A1	PRE-FABRICATED ROOF HATCH AND CURB
077200.B1	ROOF LADDER SAFETY POST
078413.A1	PENETRATION FIRESTOPPING
079200.A1	ONE PART SILICON SEALANT
079200.B1	ONE PART URETHANE SEALANT
079200.C1	LATEX JOINT SEALANT
079200.E1	FOAM BACKER ROD
081113.A1	HOLLOW METAL DOOR
081113.B1	HOLLOW METAL DOOR FRAME
081113.B2	HOLLOW METAL DOOR / GLAZING FRAME
081113.C1	HOLLOW METAL GLAZING FRAME
081113.C2	GLAZING STOP
081113.E1	FRAME ANCHOR(S) FOR MASONRY WALLS
081113.E3	FRAME ANCHOR(S) FOR WOOD STUD WALLS
083113.A1	ACCESS DOOR
083313.A1	COILING COUNTER DOOR
083313.A2	COILING COUNTER DOOR TRACK
083323.A1	OVERHEAD COILING DOOR
083323.A2	OVERHEAD COILING DOOR TRACK
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
084113.D1	ALUMINUM STOREFRONT SILL FLASHING
084523.A1	FIBERGLASS - SANDWICH PANEL ASSEMBLIES
087100.B1	ALUMINUM THRESHOLD
092216.A1	STEEL STUD(S) 3 5/8" 20 GA. @ 16" O.C. U.N.O.
092216.A4	STEEL STUD(S) 6" 20 GA. @ 16" O.C. U.N.O.
092216.C1	STEEL STUD TRACK, SAME WIDTH AND GUAGE AS STUDS U.N.O.
092216.E2	CONTINUOUS SHEET METAL ANGLE
092216.I1	POWER DRIVEN ANCHOR(S)
092216.J1	SCREW(S)
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
092900.D1	METAL CORNER BEAD
092900.D2	METAL TRIM, LC
092900.E1	SOUND ATTENUATION BATT(S) 3 1/2"
092900.E2	SOUND ATTENUATION BATT(S) 5 1/2"
093013.A1	CERAMIC WALL TILE SYSTEM
093013.F1	CEMENTITIOUS BACKER UNITS, 5/8"
095113.A1	SUSPENDED ACOUSTICAL PANEL CEILING, STANDARD PANELS
095113.A2	SUSPENDED ACOUSTICAL PANEL CEILING, WASHABLE VINYL FACED PANELS
095113.A3	SUSPENDED ACOUSTICAL PANEL CEILING, 12"X12" SCORED PATTERN
095113.A4	SUSPENDED ACOUSTICAL PANEL CEILING, IMPACT RESISTANT PANELS
095113.A5	SUSPENDED PANEL CEILING, METAL PANELS.
095113.B1	SUSPENSION SYSTEM, INTERMEDIATE DUTY
095113.C1	WALL ANGLE TRIM
096466.A1	HARDWOOD FLOORING, 3/4"
096466.D1	PLYWOOD FLOORING, 1/4"
096466.E1	1/2" PLYWOOD (T&G)
096466.F1	RESILIENT PAD
097200.A1	VINYL WALL COVERING
097723.A1	FABRIC WRAPPED ACOUSTICAL PANELS
098413.A1	FIXED SOUND ABSORBING TECTUM WALL PANELS
098413.B1	EDGE BANDING
099113.A1	PAINT-EXTERIOR
099123.A1	PAINT-INTERIOR
099123.A2	PAINT-INTERIOR EPOXY
099600.A1	HIGH PERFORMANCE COATING
101100.A1	PORCELAIN ENAMEL MARKERBOARD, FIXED
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN
101400.A1	INTERIOR PLASTIC PANEL SIGN(S)
101419.A1	EXTERIOR METAL SIGNAGE
102113.A1	TOILET COMPARTMENT PARTITION(S)
102113.B1	URINAL SCREEN
102123.A1	CUBICLE CURTAIN
102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
102800.A1	GRAB BAR, 36" LONG
102800.A2	GRAB BAR, 42" LONG
102800.A4	GRAB BAR, 18" LONG
102800.B1	MIRROR, 18" WIDE X 36" HIGH, FRAMED
102800.C1	FOLDING SHOWER SEAT
102800.D1	TOILET PAPER DISPENSER
102800.F1	PAPER TOWEL DISPENSER WITH WASTE, RECESSED
102800.G2	SOAP DISPENSER, WALL MOUNTED
102800.I1	SHOWER CURTAIN ROD
102800.K1	MOP HOOK.
102800.L1	AUTOMATIC HAND DRYER
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED
104413.A2	FIRE EXTINGUISHER CABINET, SURFACED MOUNTED
105113.C2	METAL DRESSING LOCKERS, DOUBLE TIER.
107000.A1	METAL SUNSHADE ASSEMBLY
107000.A3	SUNSHADE LOUVER
107000.A4	SUNSHADE OUT-RIGGER
107000.A5	SUNSHADE SUPPORT BRACKET
107000.B1	SUNSHADE ASSEMBLY, VERTICAL.
113013.A1	REFRIGERATOR
113013.B1	DISHWASHER
113013.C1	RANGE AND OVEN
113013.D1	WASHER
113013.E1	DRYER
114000.A2	14 GA. STAINLESS STEEL COUNTER TOP WITH SPLASH
114000.A3	1" DIA 16 GA. GALVANIZED TUBULAR LEGS
114000.A4	14 GA. STAINLESS STEEL UNDER SHELF
114000.A5	14 GA. STAINLESS STEEL WALL SHELF
114000.A6	14 GA. STAINLESS STEEL SNEEZE GUARD
114000.A7	14 GA. STAINLESS STEEL PASS THROUGH COUNTER
114000.A8	16 GA. STAINLESS STEEL CLADDING
114000.C1	HOT FOOD WARMER / PROOFER
114000.D2	DOUBLE DROP-IN UNIT
114000.D3	TRIPLE DROP-IN UNIT
114000.E2	REFRIGERATOR (WALK-IN)
114000.F1	FREEZER (REACH-IN)
114000.F2	FREEZER (WALK-IN)
114000.G2	DISHWASHER
114000.Q1	SLICER
115213.A2	PROJECTION SCREEN, ELECTRIC, SIZE AS NOTED
116143.A1	PROSCENIUM CURTAIN
116143.A3	BORDER CURTAIN
116143.A4	REAR CURTAIN
116600.A1	SAFETY WALL PADS
116623.A1	BASKETBALL BACKSTOP - GLASS
116623.A2	BASKETBALL BACKSTOP - FIBERGLASS
116623.B2	BASKETBALL BACKSTOP SUPPORT - FORWARD FOLDING
116623.C1	VOLLEYBALL POST FLOOR SLEEVE AND COVER
116623.E1	GYMNASIUM WALL PADS (2' X 6')
126600.A1	TELESCOPING BLEACHERS, WALL ATTACHED, FORWARD FOLD
220100.E1	ROOF DRAIN
220100.E4	RECEIVER
220100.J1	SHOWER HEAD
220100.K1	LAVATORY
220100.M1	MOP SINK
220100.N1	WATER CLOSET
220100.O1	URINAL
230100.A1	ROOFTOP MECHANICAL UNIT. SEE MECH.
230100.A2	UNIT MFR'S. FACTORY CURB W/ 1" INSUL.
230100.B1	NEOPRENE GASKET
230100.B2	
312300.A1	COMPACTED IMPORTED STRUCTURAL FILL
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS
Division 07	THERMAL AND MOISTURE PROTECTION

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

REGISTERED ARCHITECT — BRENT TRUST — 02/11/2022 — STATE OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

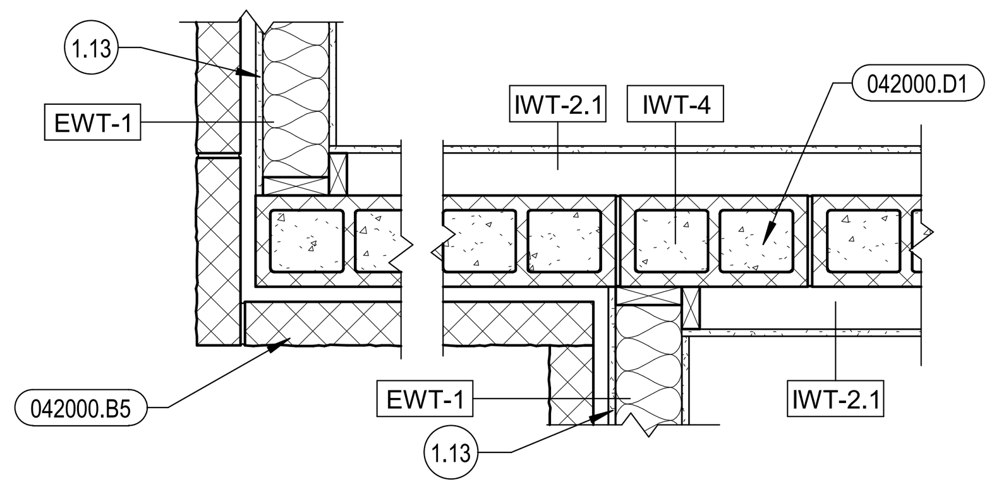
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

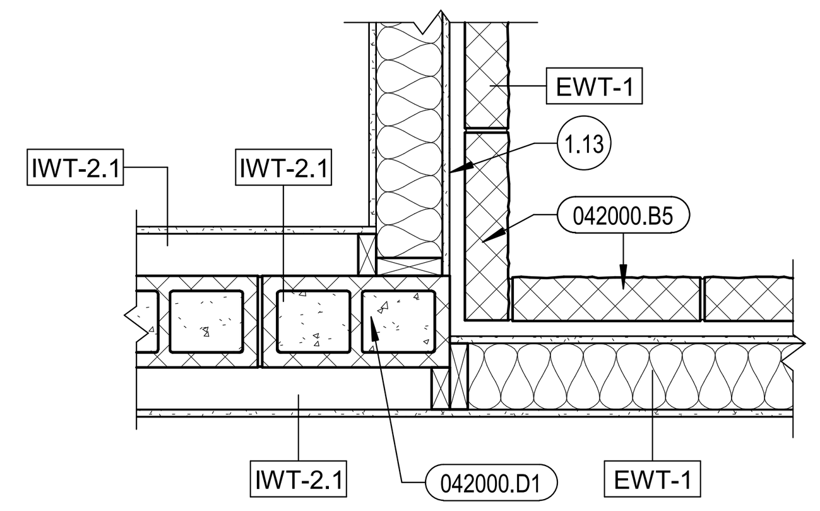
BID SET

DRAWING NO.:

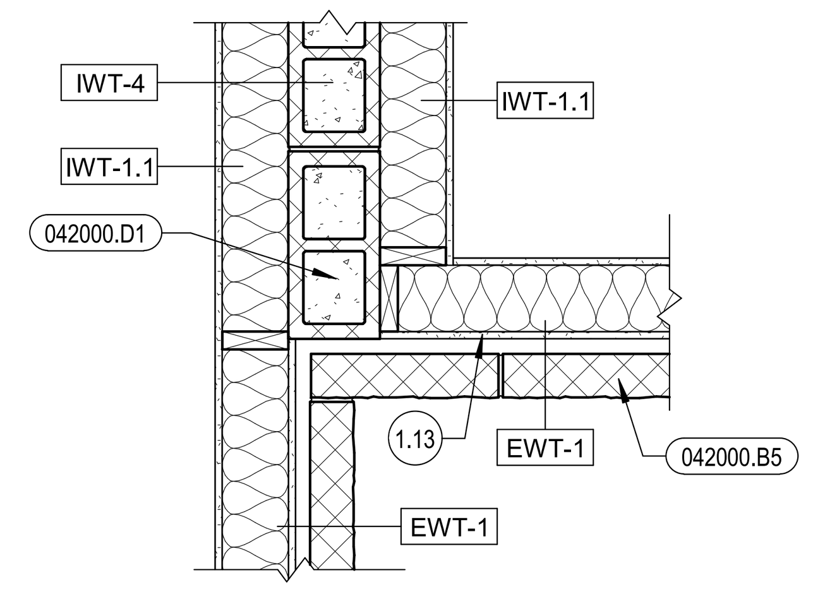
A1.2
KEYED NOTES



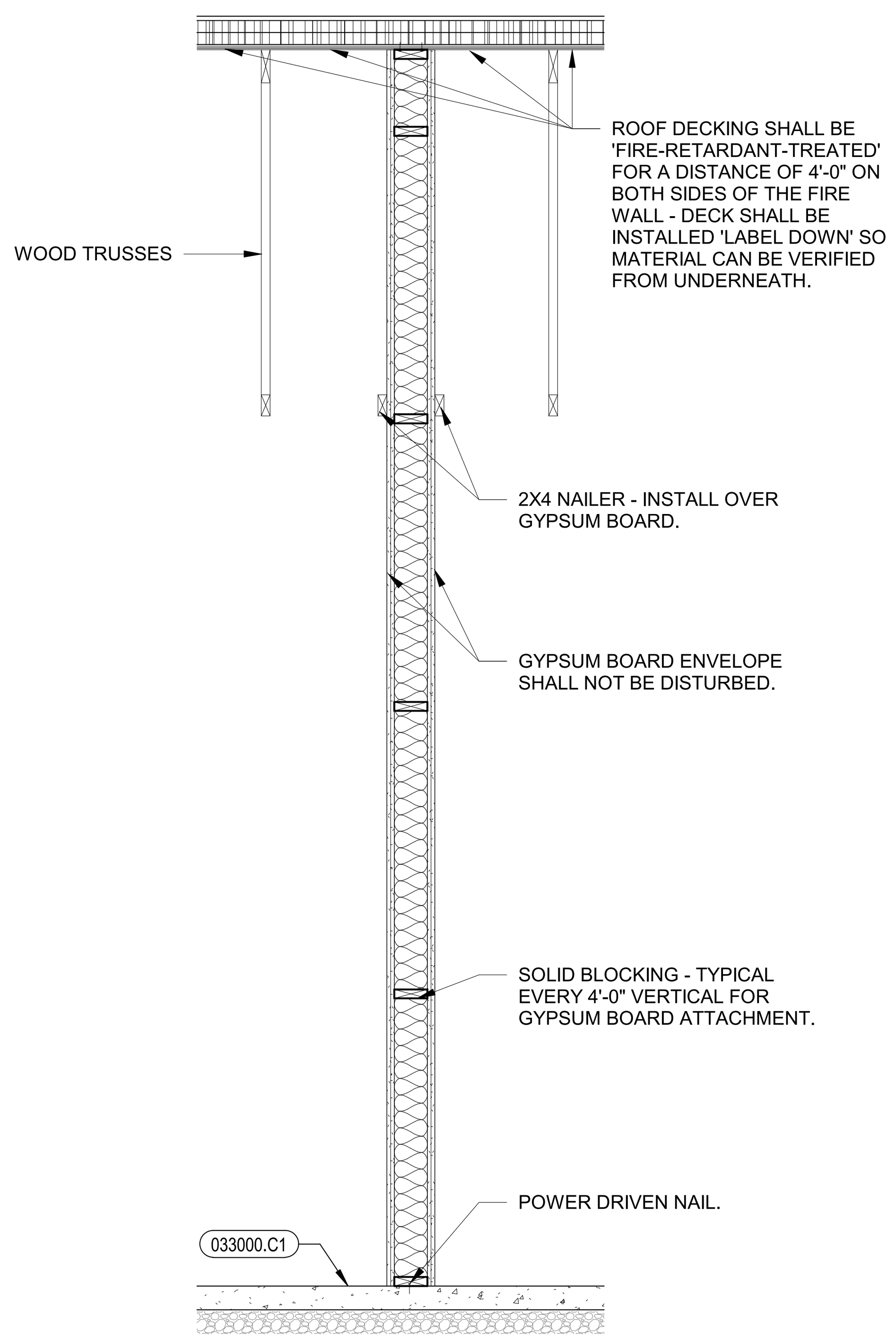
1 FIRE WALL TERMINATION 1
3/4" = 1'-0"



2 FIRE WALL TERMINATION 2
3/4" = 1'-0"



3 FIRE WALL TERMINATION 3
3/4" = 1'-0"



4 2 HOUR FIREWALL - U.L. #U-425
1/2" = 1'-0"

General Notes

1. ALL FIRE WALLS SHALL BE LABELED ABOVE CEILING EVERY 6'-0" O.C.

Reference Notes

1.13	5/8" GYPSUM SHEATHING 4'-0" BEYOND INTERSECTION.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.D1	SOLID GROUT

LKV
ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
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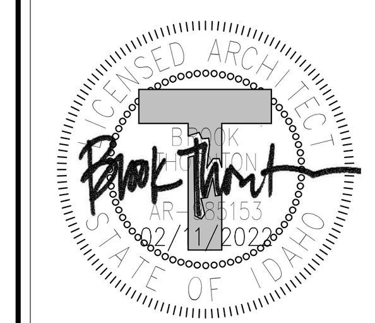
208.336.3443



Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

A1.3

FIRE WALL DETAILS

General Notes

1. SEE CIVIL SHEETS FOR GRADING, DRAINAGE, AND SITE UTILITIES.
2. SEE CIVIL SHEETS FOR PAVING SECTIONS.
3. SEE LANDSCAPE SHEETS FOR LANDSCAPING AND IRRIGATION PLANS.
4. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CMU UNLESS NOTED OTHERWISE.

Reference Notes

1.01	CLASSROOM ADD ALTERNATE 1
1.02	CLASSROOM ADD ALTERNATE 2
1.04	NEW BUILDING.
1.05	NEW CONCRETE SIDEWALK / PAVING. RE: CIVIL DRAWINGS.
1.06	NEW PARKING LOT. RE: CIVIL DRAWINGS.
1.07	NEW BIKE RACKS. RE: CIVIL DRAWINGS.
1.08	NEW PLAYGROUND AREAS. RE: CIVIL AND LANDSCAPE DRAWINGS.
1.09	NEW FLAGPOLE LOCATION.
1.10	NEW PLAYING FIELDS. RE: CIVIL AND LANDSCAPE DRAWINGS.

1 ARCHITECTRUAL SITE PLAN
1" = 40'-0"

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

LICENSED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

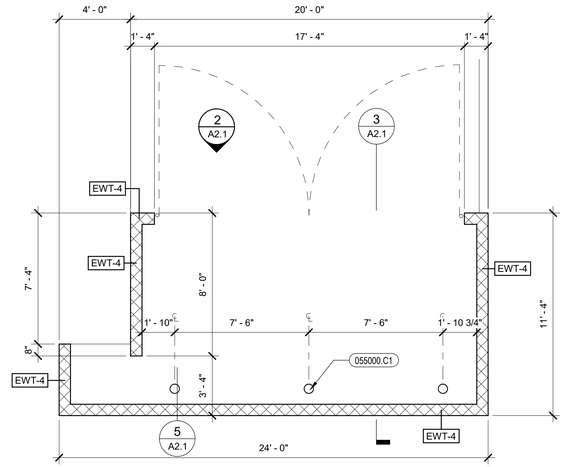
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

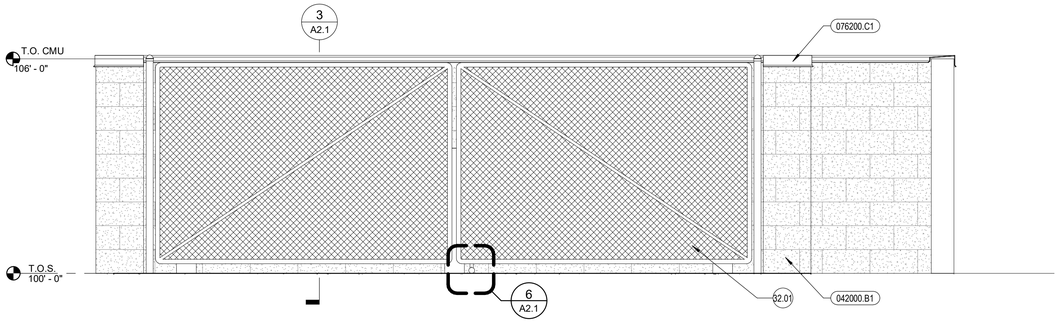
DRAWN BY: KB
CHECKED BY: BT

BID SET

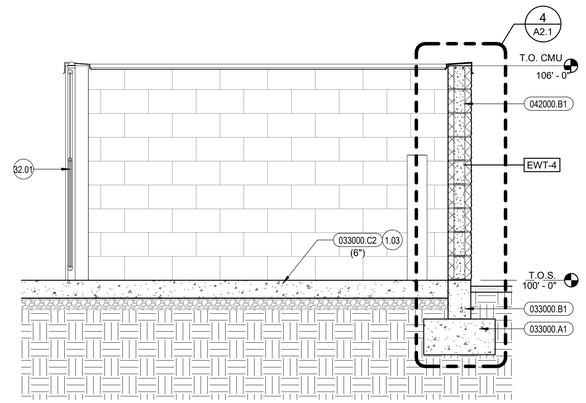
DRAWING NO.:
A2.0
SITE PLAN



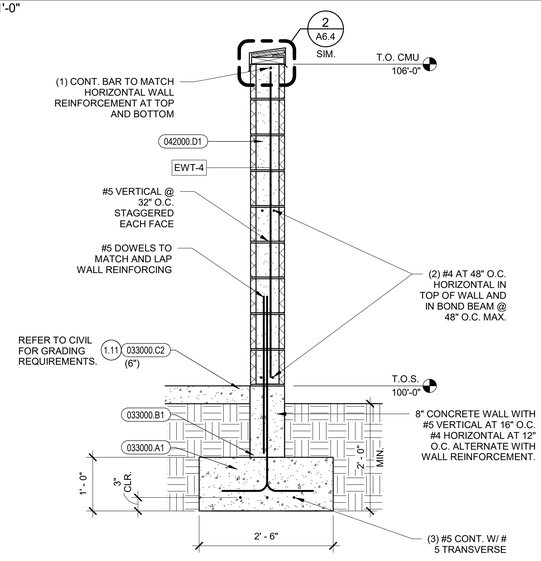
1 FLOOR PLAN - TRASH ENCLOSURE
1/4" = 1'-0"



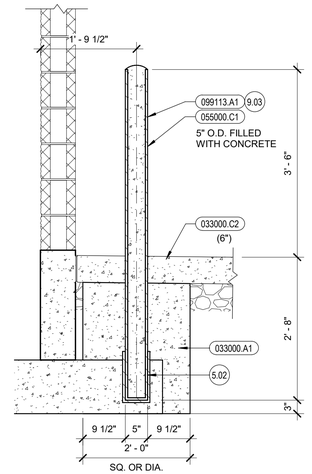
2 ELEVATION - TRASH ENCLOSURE
1/2" = 1'-0"



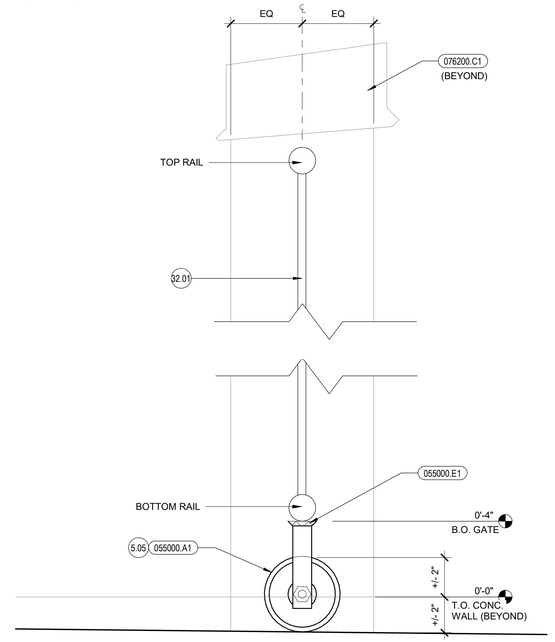
3 SECTION - TRASH ENCLOSURE
1/2" = 1'-0"



4 TRASH ENCLOSURE WALL
3/4" = 1'-0"



5 BOLLARD DETAIL
3/4" = 1'-0"



6 GATE SECTION
3" = 1'-0"

General Notes

1. SEE CIVIL SHEETS FOR GRADING, DRAINAGE, AND SITE UTILITIES.
2. SEE CIVIL SHEETS FOR PAVING SECTIONS.
3. SEE LANDSCAPE SHEETS FOR LANDSCAPING AND IRRIGATION PLANS.
4. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CMU UNLESS NOTED OTHERWISE.

Reference Notes

1.03	REFER TO CIVIL FOR GRADING REQUIREMENTS.
1.11	SEE CIVIL DRAWINGS.
5.02	INSTALL SLEEVES IN FOOTING FOR BOLLARDS.
5.05	HEAVY DUTY GALVANIZED STEEL CASTER.
9.03	PRIME AND PAINT ALL STEEL SURFACES. ARCHITECT TO DETERMINE COLOR.
32.01	REFER TO LANDSCAPE DRAWINGS FOR CHAIN LINK DETAIL.

Keyed Notes

033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C2	CONCRETE SLAB ON GRADE (EXTERIOR), 4" U.N.O.
042000.B1	CONCRETE MASONRY UNIT(S) SPLIT FACE, 8X8X16
042000.D1	SOLID GROUT
055000.A1	ROUGH HARDWARE
055000.C1	PIPE BOLLARD
055000.E1	WELD
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
099113.A1	PAINT-EXTERIOR

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LICENSED ARCHITECT
Brad Hunt
02/11/2022
STATE OF IDAHO

Revisions	Description	Date
#		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

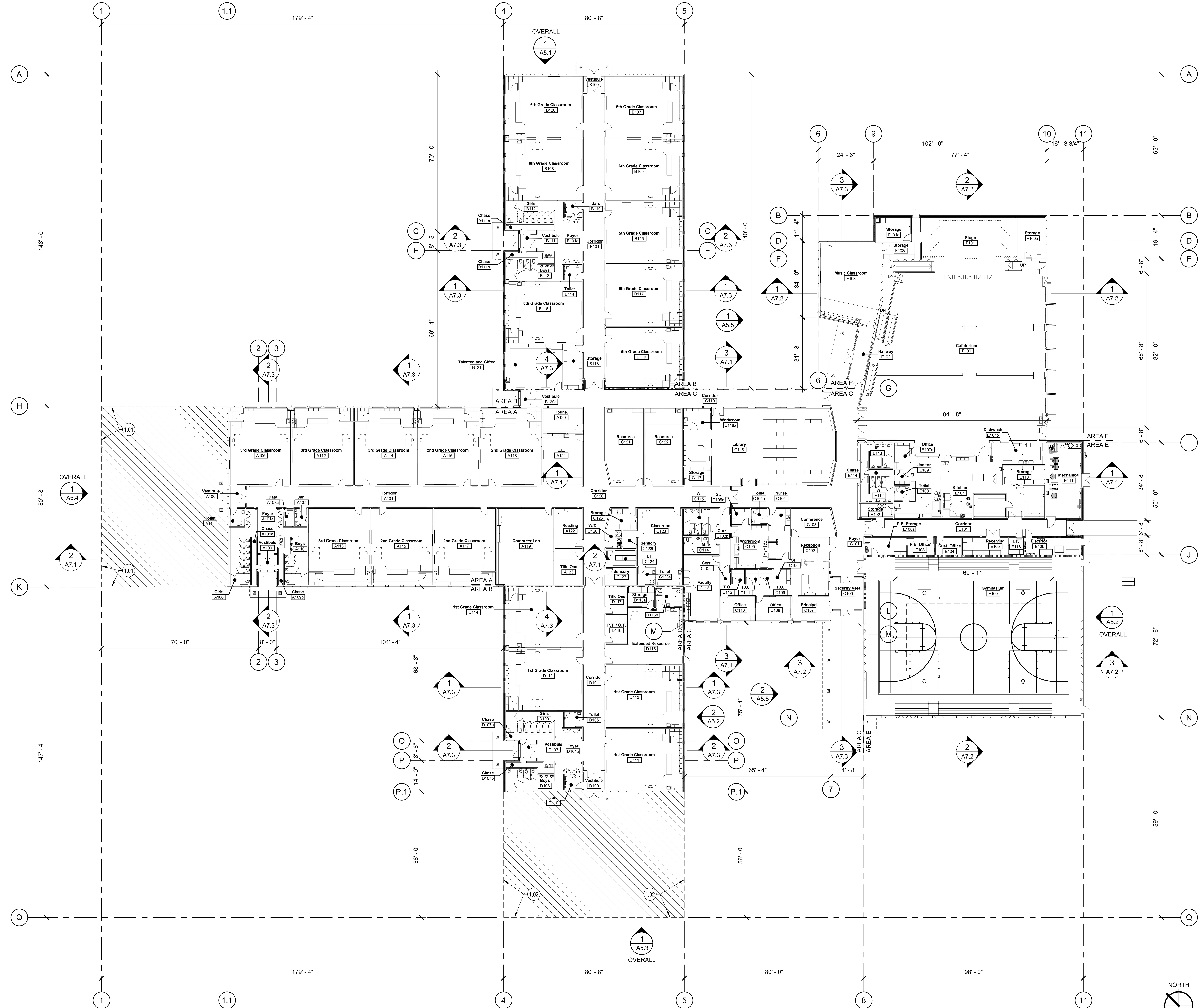
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

A2.1
TRASH ENCLOSURE DETAILS



1 FLOOR PLAN - OVERALL
1" = 20'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

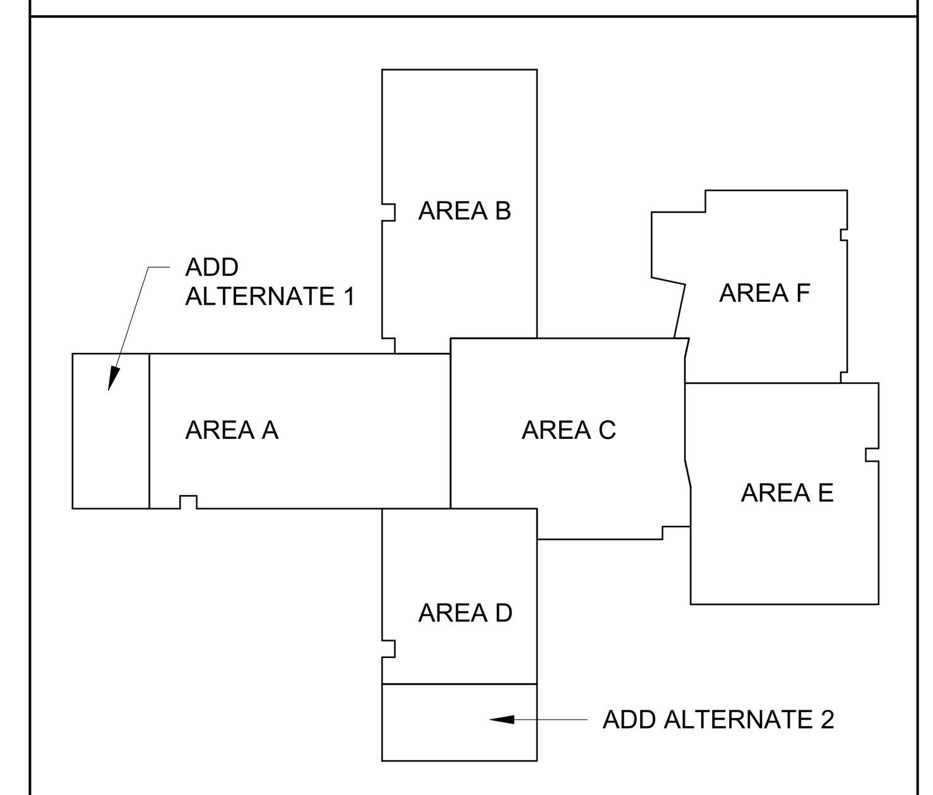
Reference Notes

1.01	CLASSROOM ADD ALTERNATE 1
1.02	CLASSROOM ADD ALTERNATE 2

Legend

FIRE WALL - 2 HR CMU
FIRE WALL - 1 HR STUD WALL
MATCHLINE

Keyed Plan



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Jerome Elementary School
Jerome School District No. 261
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DATE: 02/11/2022
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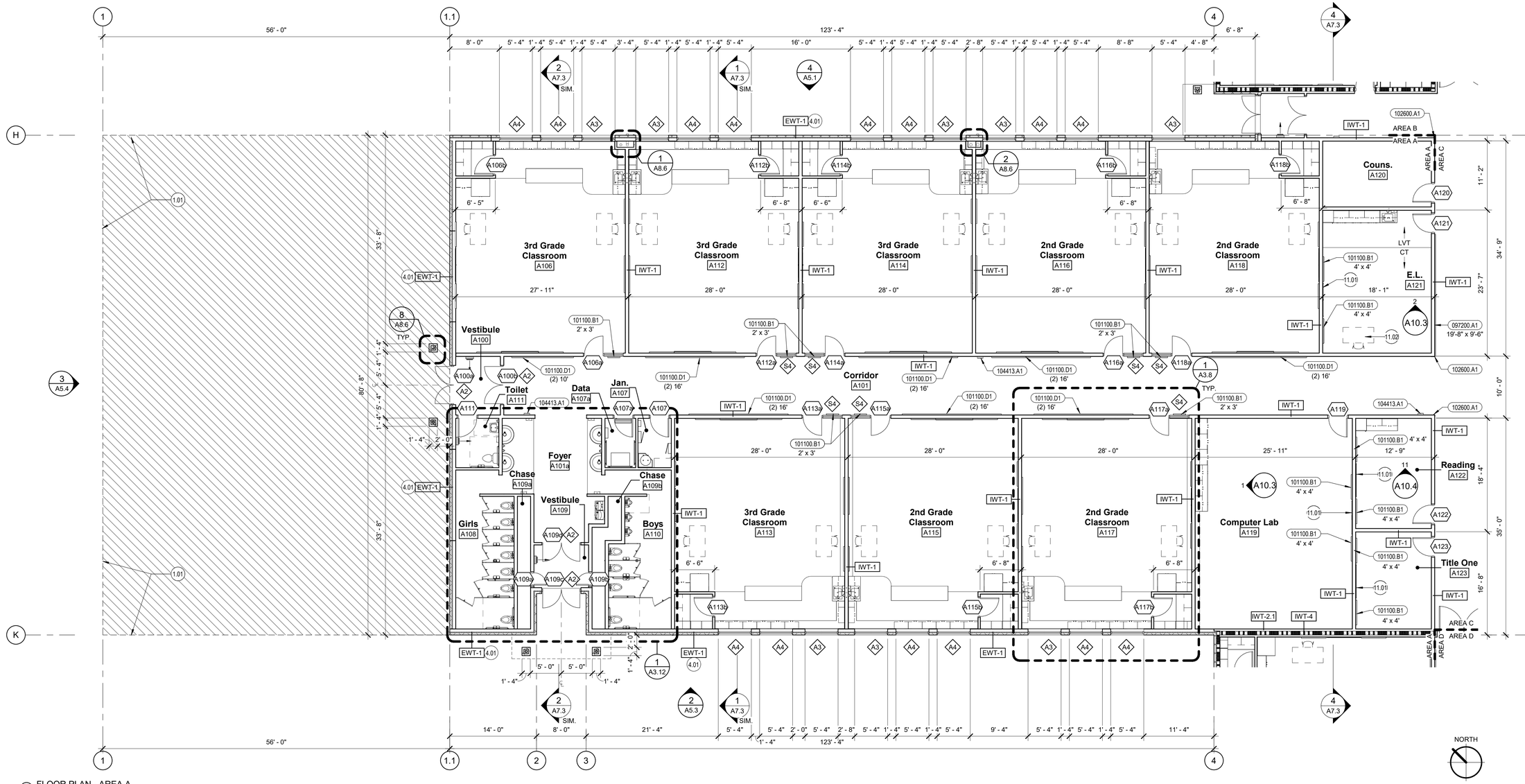
CHECKED BY: BT

BID SET

DRAWING NO.:
A3.1
FLOOR PLAN - OVERALL



1 FLOOR PLAN - AREA A
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Legend

- FIRE WALL - 2 HR CMU
- FIRE WALL - 1 HR STUD WALL
- MATCHLINE

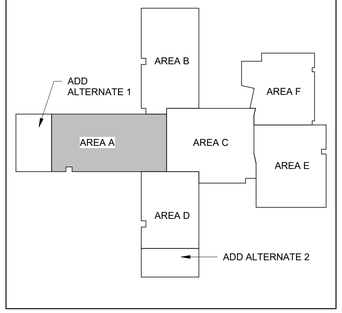
Reference Notes

1.01	CLASSROOM ADD ALTERNATE 1
4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)

Keyed Notes

097200.A1	VINYL WALL COVERING
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN
102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED

Keyed Plan



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02/11/2022

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

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LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

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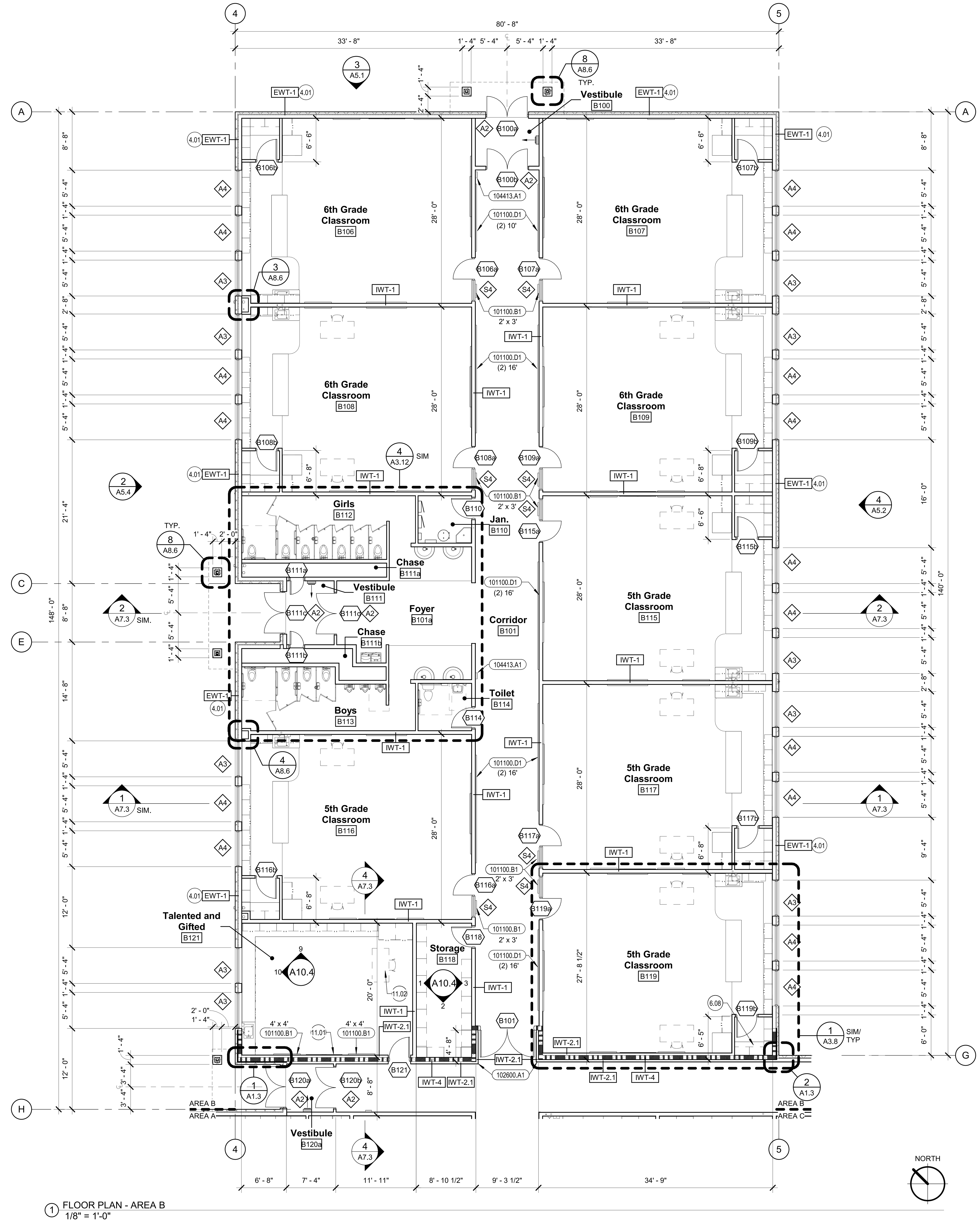
DRAWING NO.:

A3.2

FLOOR PLAN – AREA A



1 FLOOR PLAN - AREA B
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.
6.08	23" DEPTH BASE CABINET THIS CLASSROOM CLOSET.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)

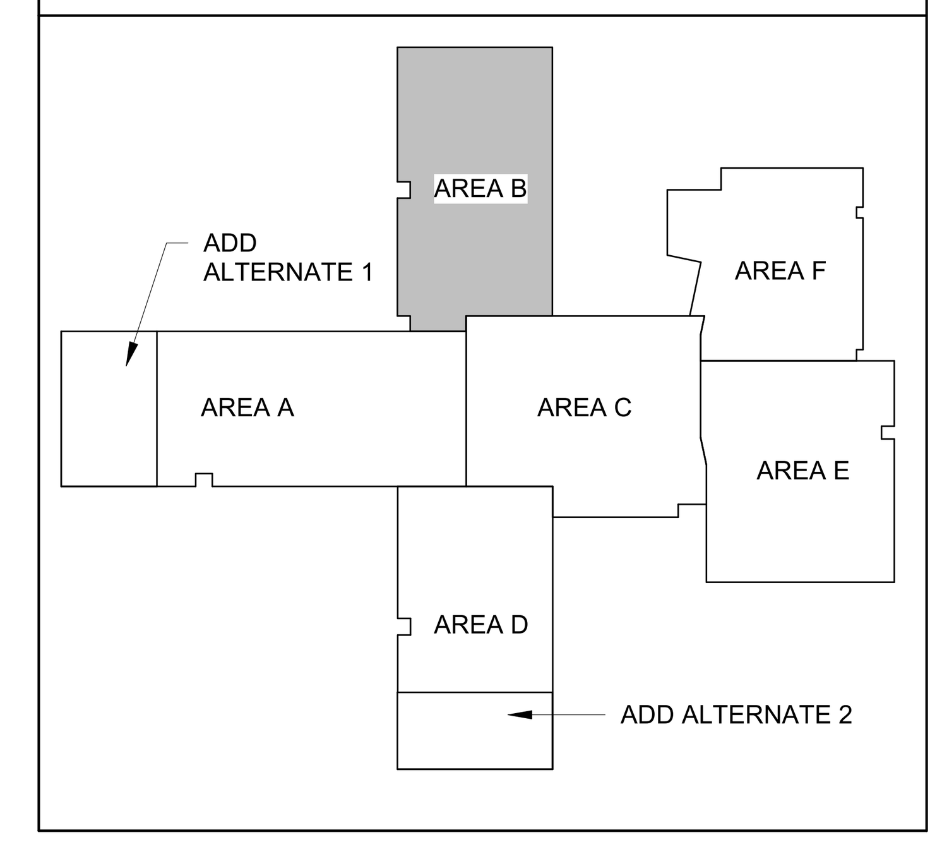
Keyed Notes

101100.B1	VINYL FABRIC FACED CORK TACKBOARD
101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN
102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED

Legend

FIRE WALL - 2 HR CMU
FIRE WALL - 1 HR STUD WALL
MATCHLINE

Keyed Plan



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#	Description	Date
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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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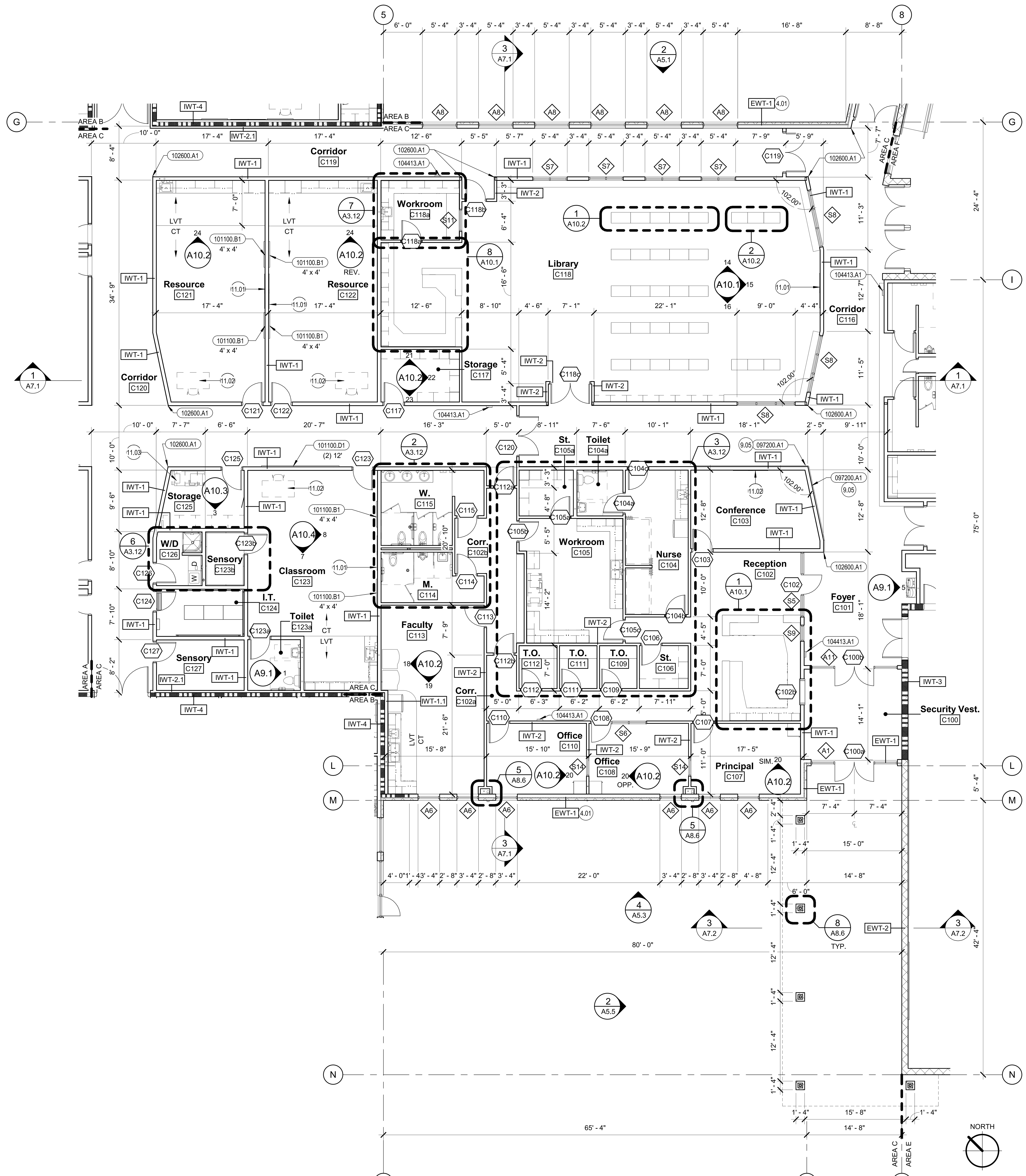
BID SET

DRAWING NO.:
A3.3
FLOOR PLAN - AREA B



1 FLOOR PLAN - AREA C
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.
9.05	ENTIRE LENGTH AND HEIGHT OF CONFERENCE WALL.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)
11.03	COPY MACHINE, O.F.O.I.

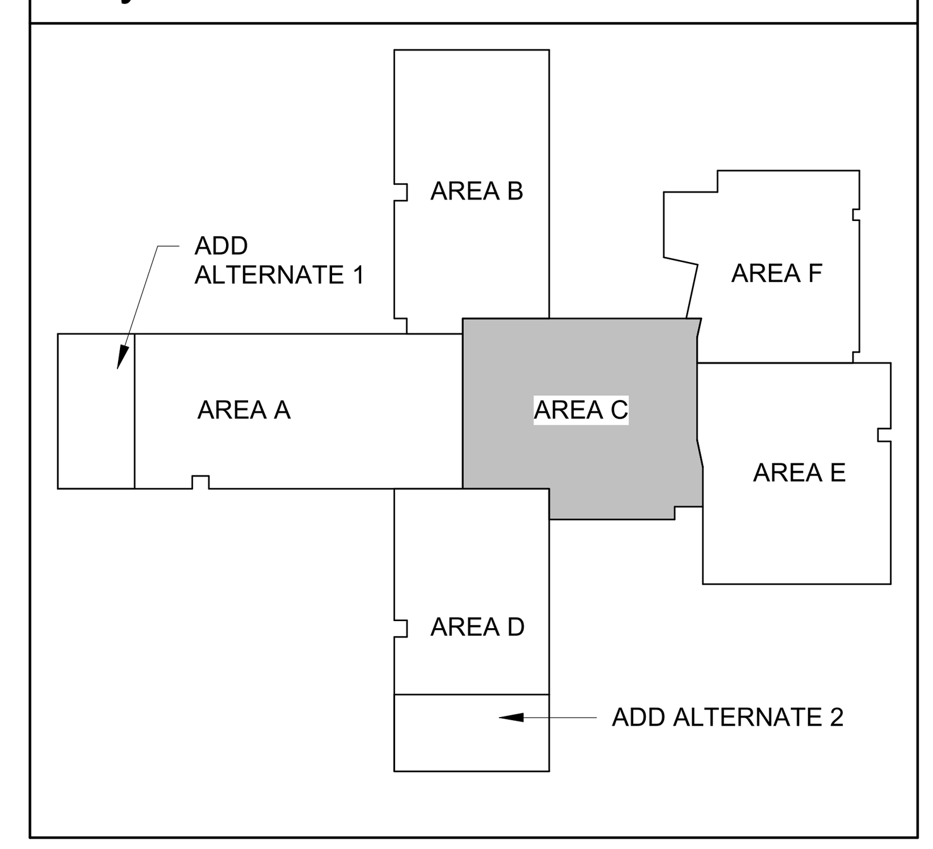
Keyed Notes

097200.A1	VINYL WALL COVERING
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN
102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED

Legend

FIRE WALL - 2 HR CMU
FIRE WALL - 1 HR STUD WALL
MATCHLINE

Keyed Plan



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N. 100 E. Jerome, Idaho

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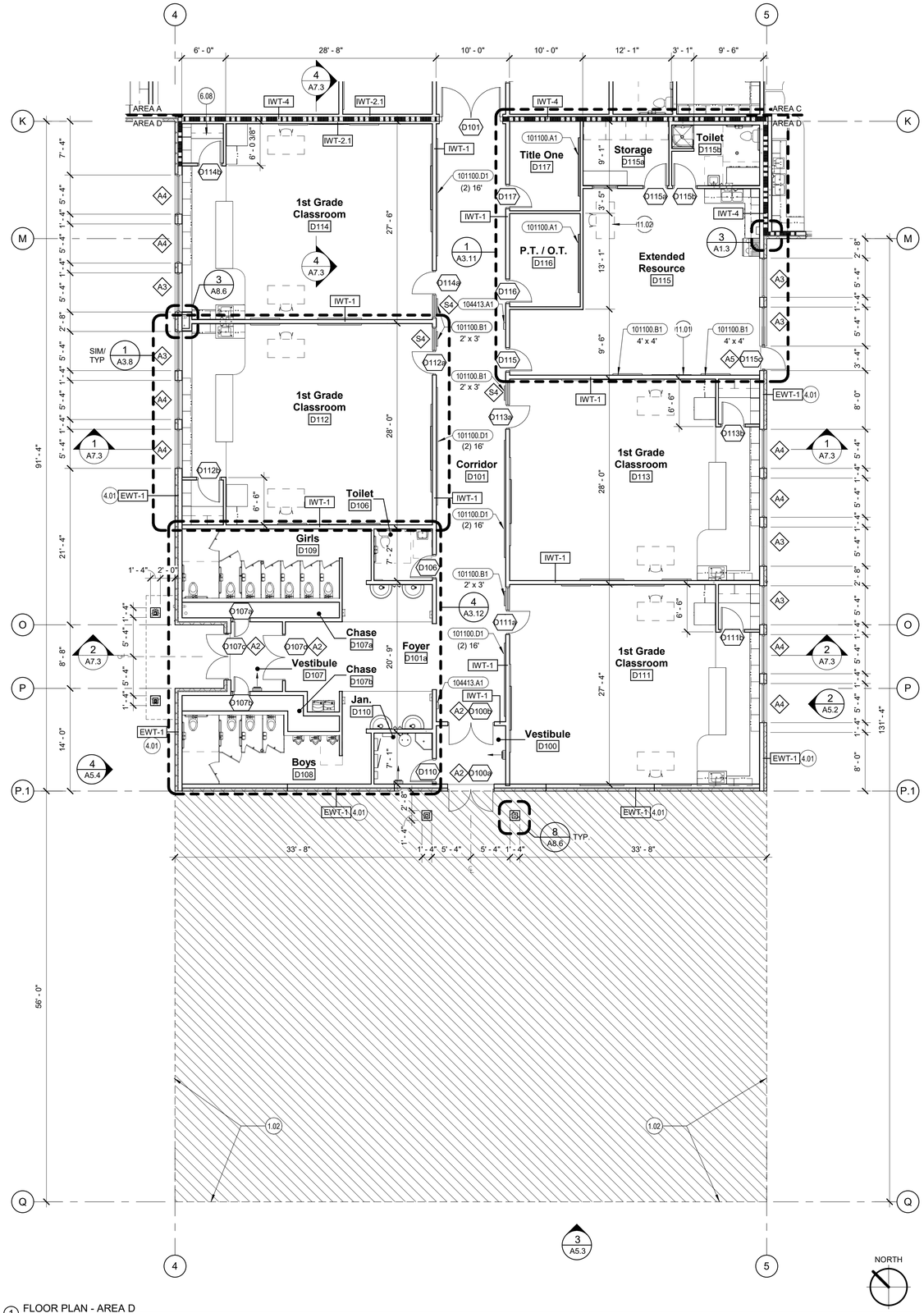
DRAWING NO.:
A3.4
FLOOR PLAN – AREA C



1 FLOOR PLAN - AREA D
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

1.02	CLASSROOM ADD ALTERNATE 2
4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES
6.08	23" DEPTH BASE CABINET THIS CLASSROOM CLOSET.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)

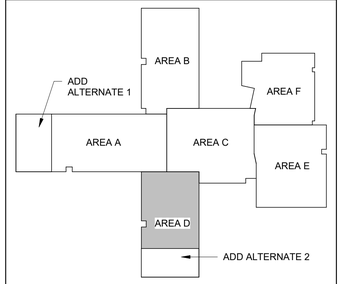
Keyed Notes

101100.A1	PORCELAIN ENAMEL MARKERBOARD, FIXED
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED

Legend

- FIRE WALL - 2 HR CMU
- FIRE WALL - 1 HR STUD WALL
- MATCHLINE

Keyed Plan



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REGISTERED ARCHITECT Brad Trust 02/11/2022

Revisions Description	Date
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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

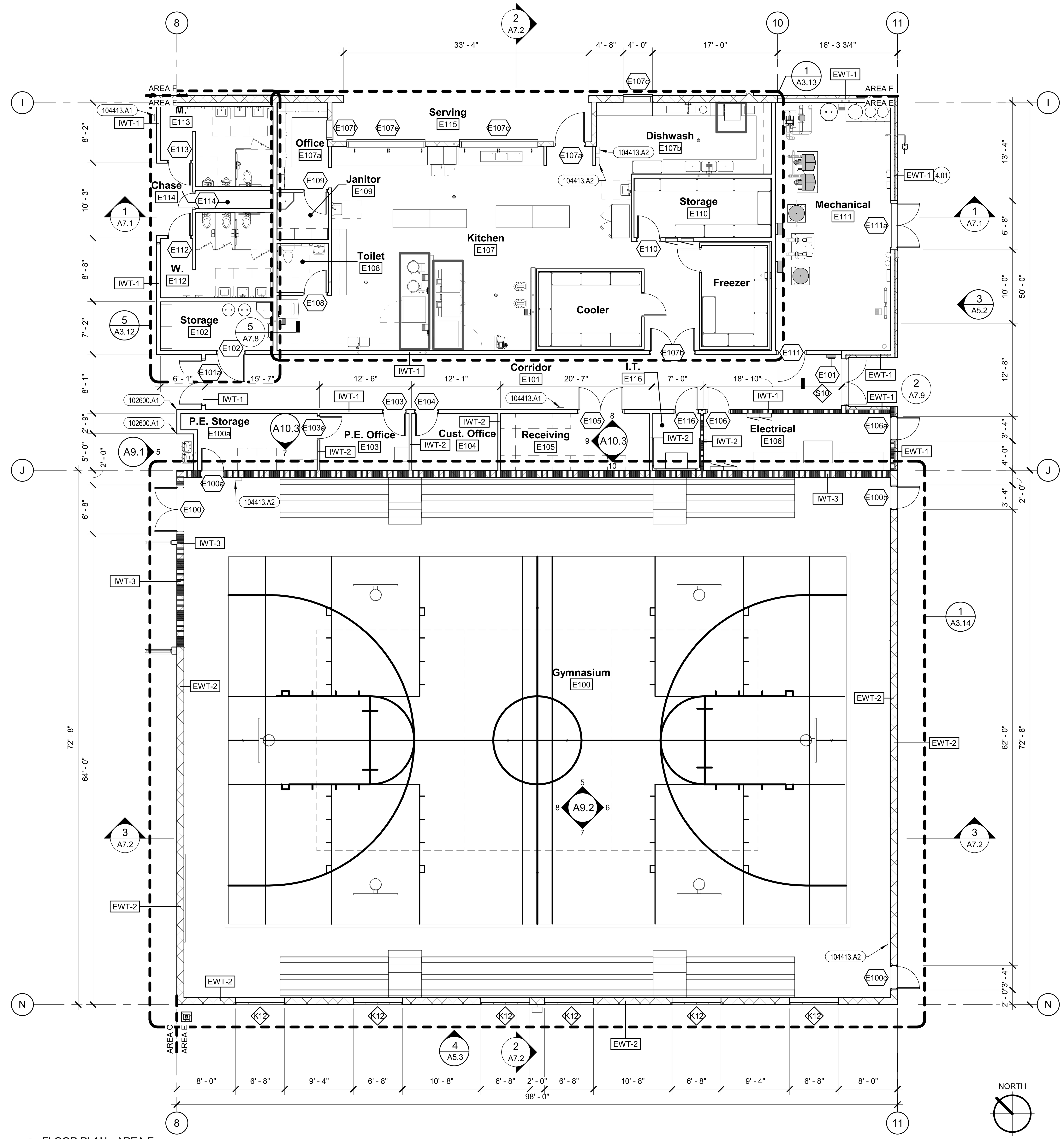
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:

A3.5
FLOOR PLAN – AREA D



1 FLOOR PLAN - AREA E
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.

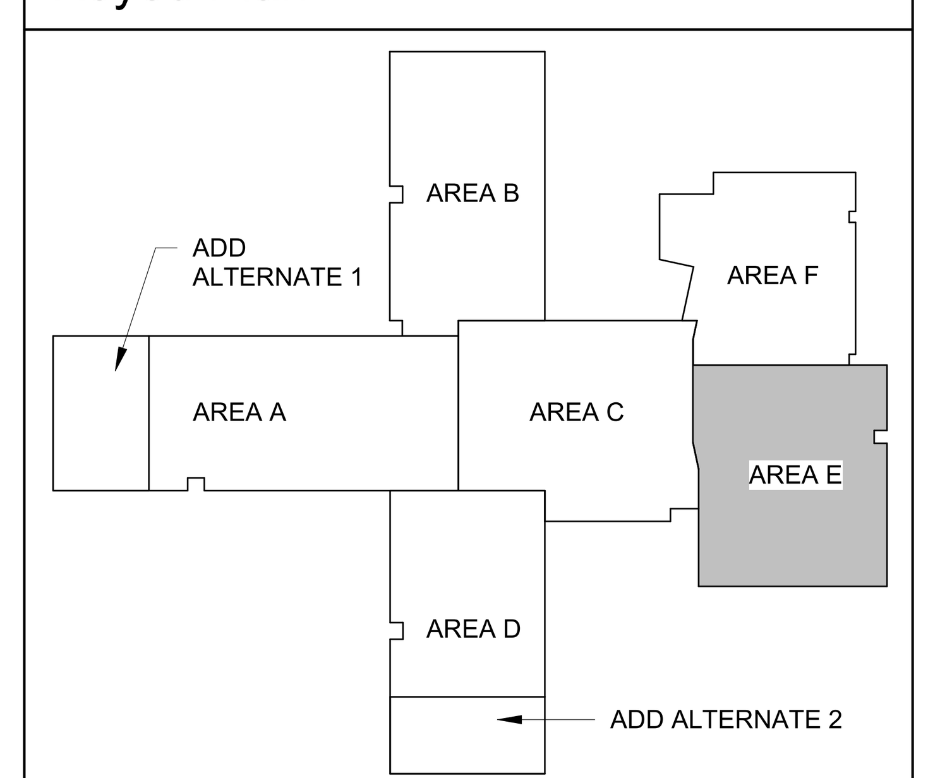
Keyed Notes

102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED
104413.A2	FIRE EXTINGUISHER CABINET, SURFACED MOUNTED

Legend

	FIRE WALL - 2 HR CMU
	FIRE WALL - 1 HR STUD WALL
	MATCHLINE

Keyed Plan



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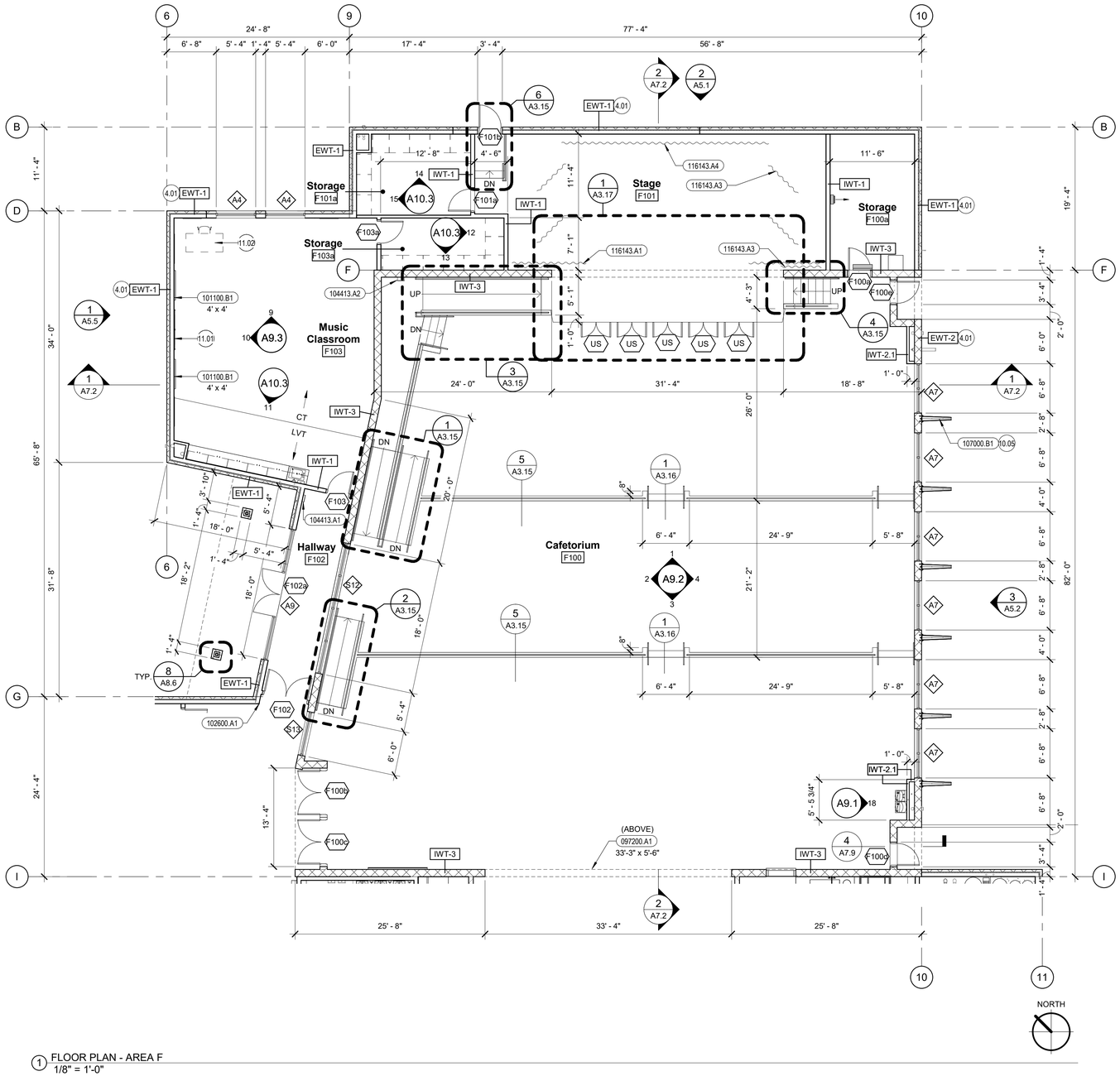
DRAWING NO.:

A3.6

FLOOR PLAN - AREA E



1 FLOOR PLAN - AREA F
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.
10.05	SUNSHADE TYPE 3. SEE DRAWING SHEET A4.2 FOR SUNSHADE TYPES.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)

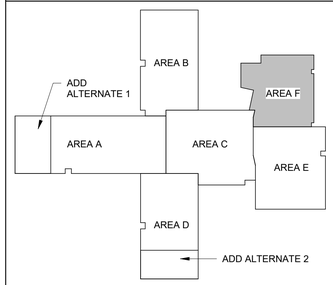
Keyed Notes

097200.A1	VINYL WALL COVERING
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED
104413.A2	FIRE EXTINGUISHER CABINET, SURFACED MOUNTED
107000.B1	SUNSHADE ASSEMBLY, VERTICAL.
116143.A1	PROSCENIUM CURTAIN
116143.A3	BORDER CURTAIN
116143.A4	REAR CURTAIN

Legend

- FIRE WALL - 2 HR CMU
- FIRE WALL - 1 HR STUD WALL
- MATCHLINE

Keyed Plan



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LICENSED ARCHITECT Brock Thrut 02/11/2022 STATE OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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CHECKED BY: BT

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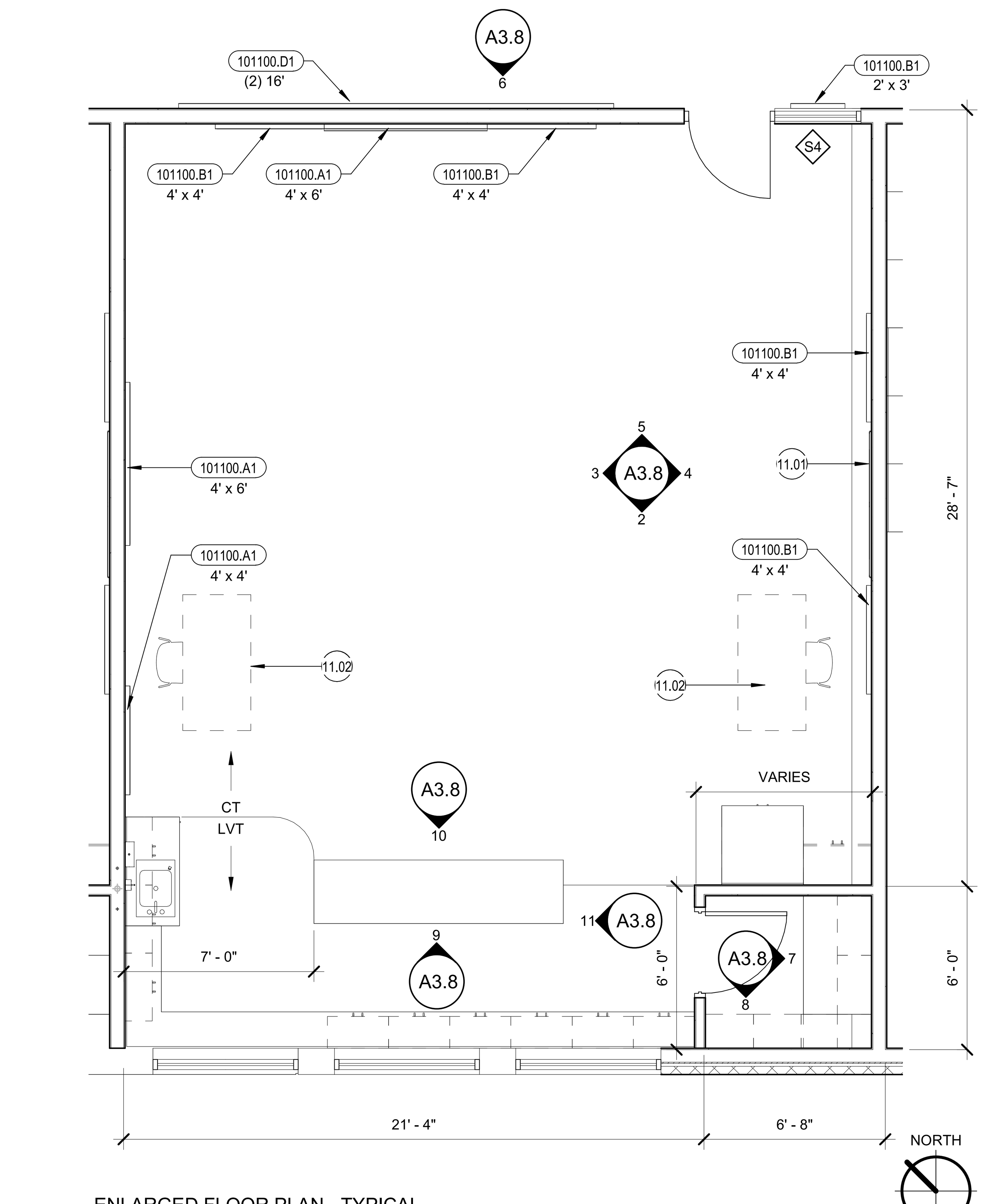
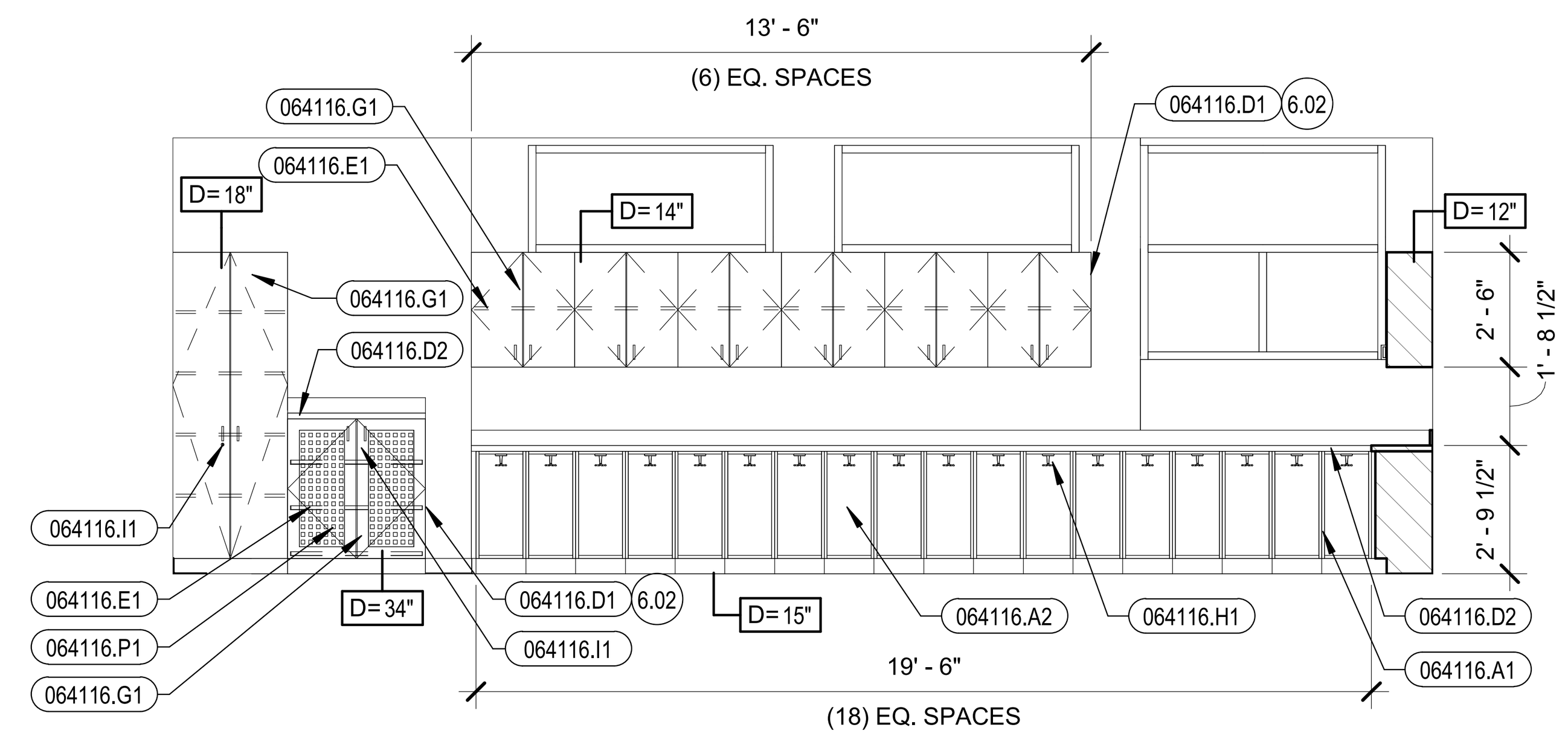
DRAWING NO.:

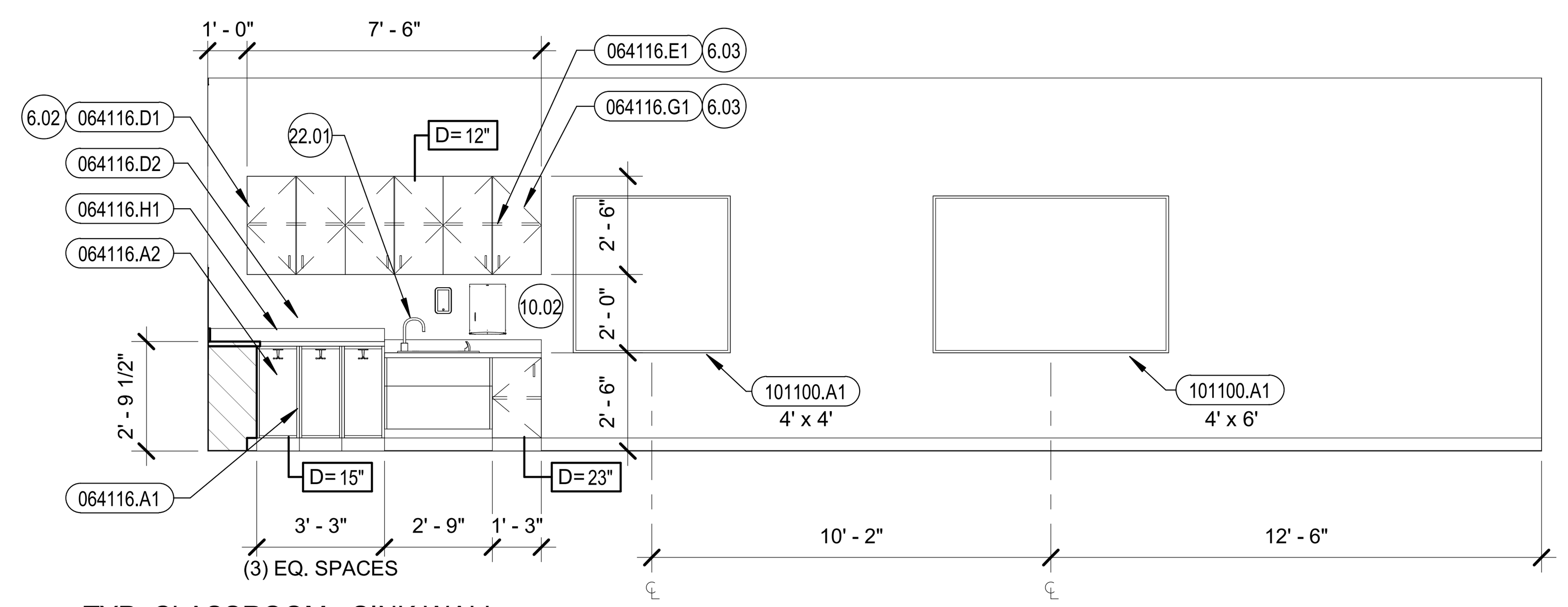
A3.7
FLOOR PLAN – AREA F



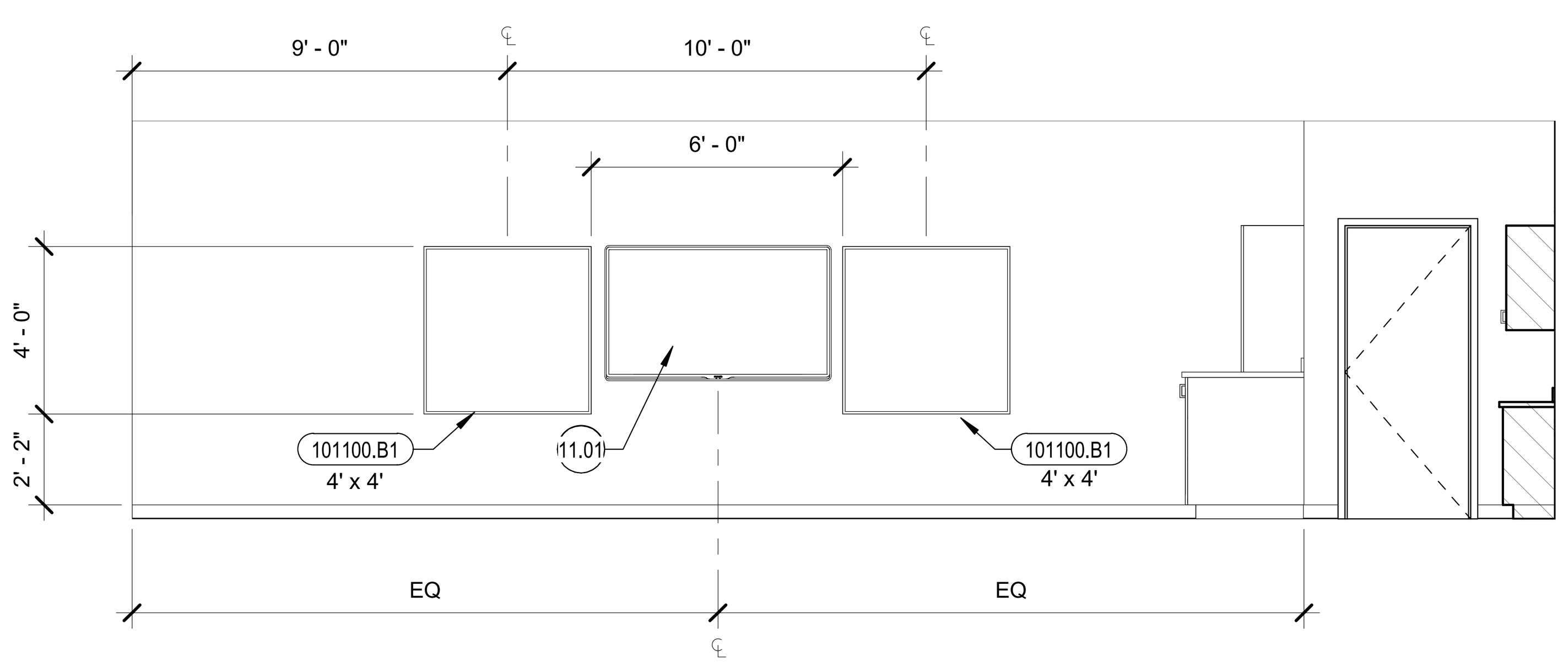
1 ENLARGED FLOOR PLAN - TYPICAL CLASSROOM
1/4" = 1'-0"



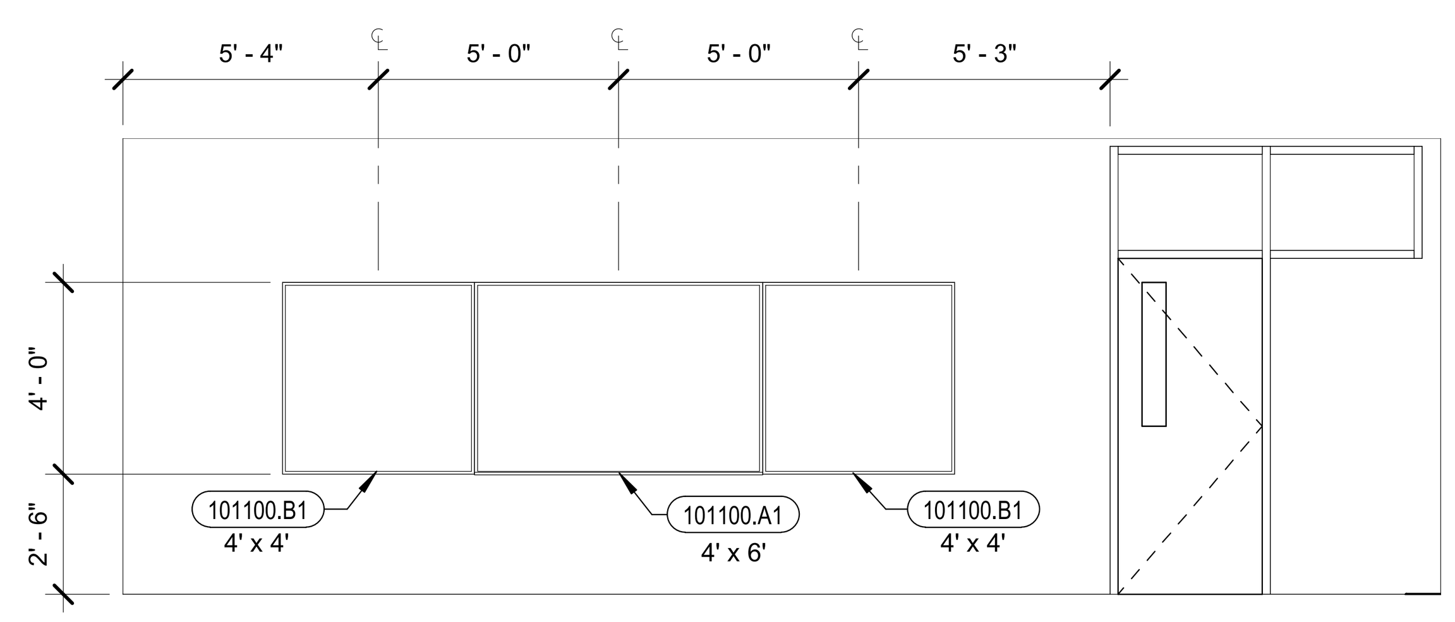
2 TYP. CLASSROOM - CUBBIE WALL
1/4" = 1'-0"



3 TYP. CLASSROOM - SINK WALL
1/4" = 1'-0"

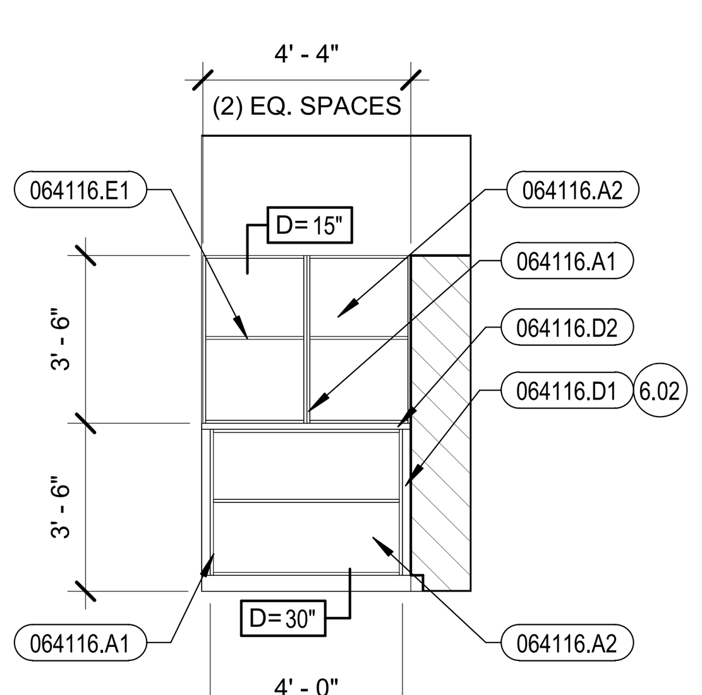


4 TYP. CLASSROOM - TEACHING WALL
1/4" = 1'-0"

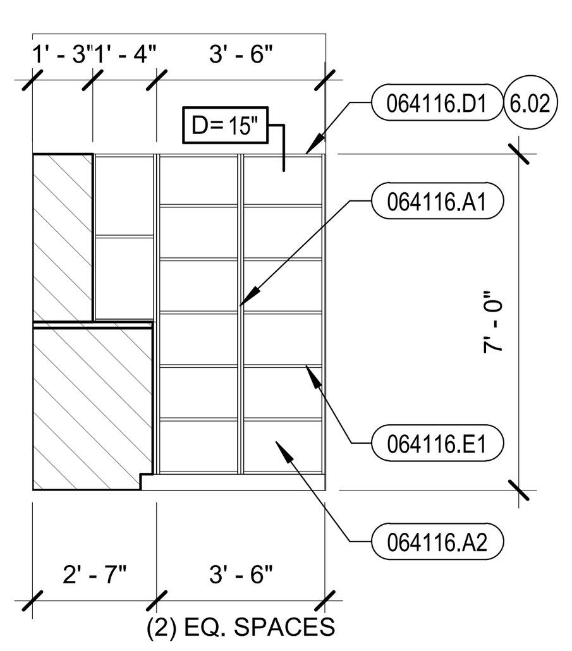


5 TYP. CLASSROOM - ENTRY WALL
1/4" = 1'-0"

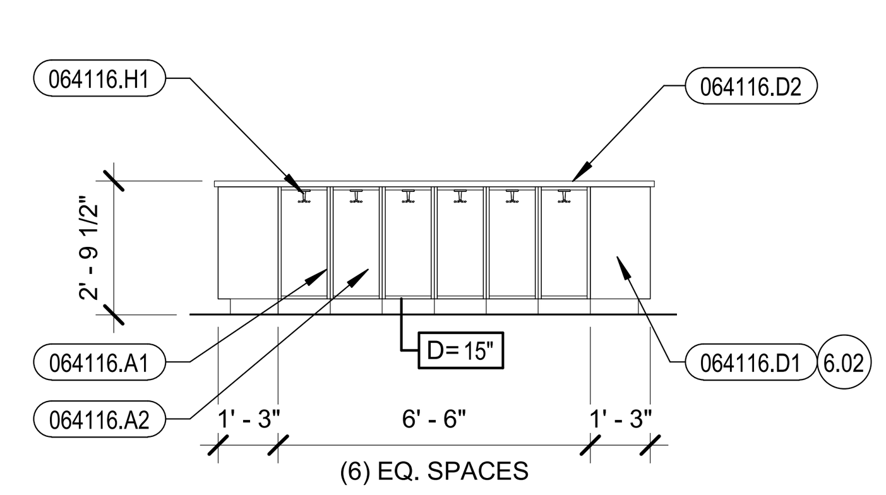
6 TYP. CLASSROOM - CORRIDOR WALL
1/4" = 1'-0"



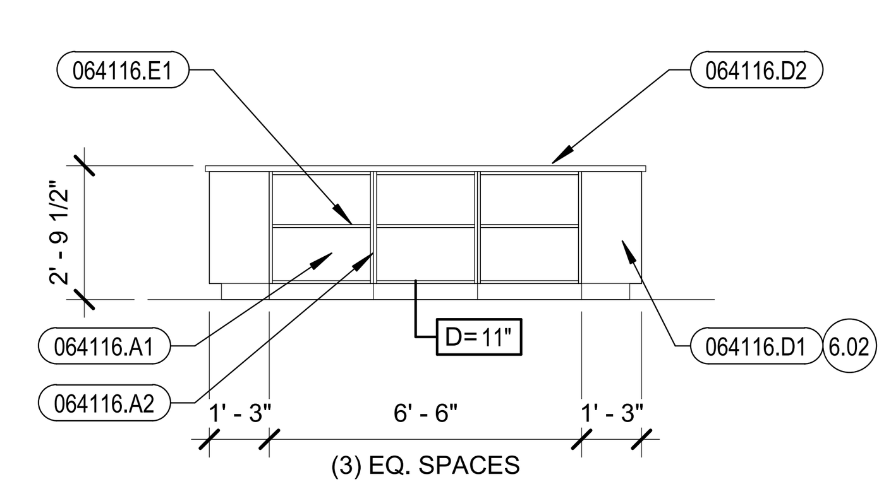
7 TYP. CLASSROOM STORAGE
1/4" = 1'-0"



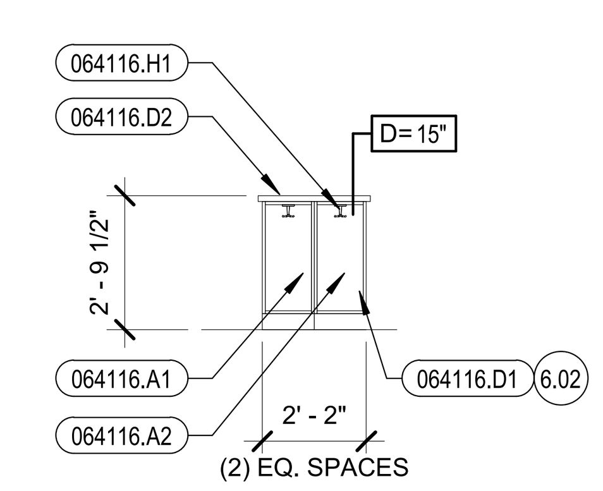
8 TYP. CLASSROOM STORAGE
1/4" = 1'-0"



9 TYP. CLASSROOM ISLAND - CUBBIES
1/4" = 1'-0"



10 TYP. CLASSROOM ISLAND - SHELVING
1/4" = 1'-0"



11 TYP. CLASSROOM ISLAND - END
1/4" = 1'-0"

General Millwork Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
7. TYPICAL COUNTERTOP CONSTRUCTION SHALL BE MINIMUM 3/4" PARTICLE BOARD WITH HIGH PRESSURE DECORATIVE LAMINATE AT TOPS AND BACKSPLASHES WITH 1 1/2" FRONT SELF EDGE UNLESS NOTED OTHERWISE. PVC EDGE BANDING, 0.12", (3mm) THICK, MATCHING LAMINATE COLOR, PATTERN, AND FINISH, TO BE AT VERTICAL COUNTER TOP SURFACES. RADIUS OUTSIDE COUNTER CORNERS WITH 1" RADIUS.
8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

6.02	SIDE / END / LEG PANELS. TYPICAL AT UPPERS AND BASE CABINETS.
6.03	TYPICAL CABINET COMPONENT IDENTICAL AT UPPERS AND BASE CABINETS.
10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)
22.01	SINK. SEE PLUMBING DOCUMENTS.

Keyed Notes

064116.A1	3/4" MELAMINE COATED PARTICLE BOARD
064116.A2	1/2" MELAMINE COATED PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
064116.H1	COAT HOOK
064116.I1	CYLINDER LOCK
064116.P1	PLASTIC VENTILATION LOUVER
101100.A1	PORCELAIN ENAMEL MARKERBOARD, FIXED
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN
101400.A1	INTERIOR PLASTIC PANEL SIGN(S)

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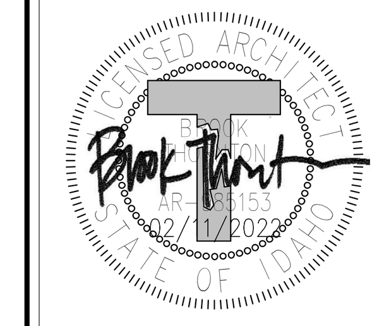


#	Description	Date
Revisions		

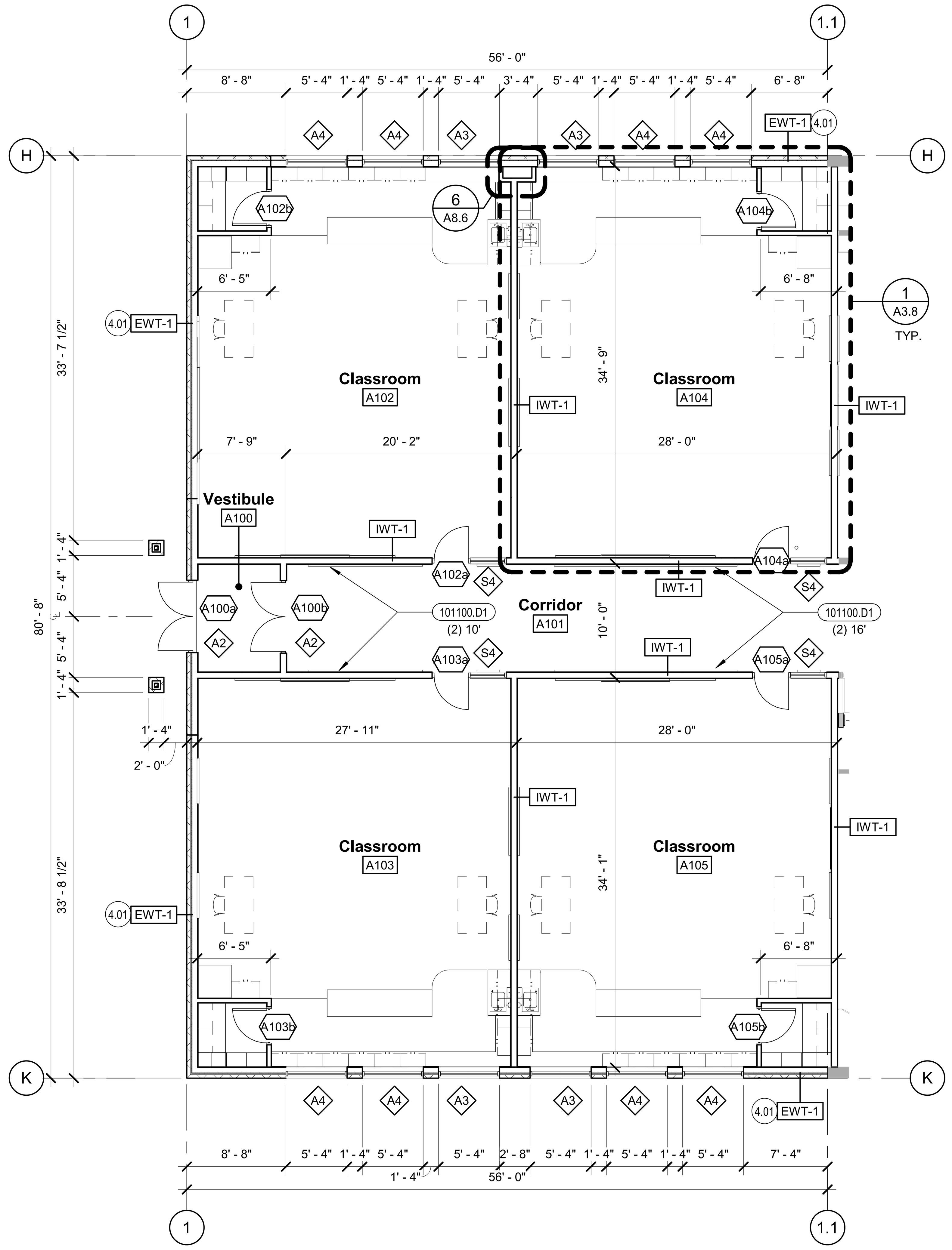
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:
A3.8
ENLARGED PLANS - TYPICAL CLASSROOM



1 ENLARGED FLOOR PLAN - ADD ALTERNATE 1
1/8" = 1'-0"

2 REFLECTED CEILING PLAN - ADD ALTERNATE 1
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.

Keyed Notes

101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN

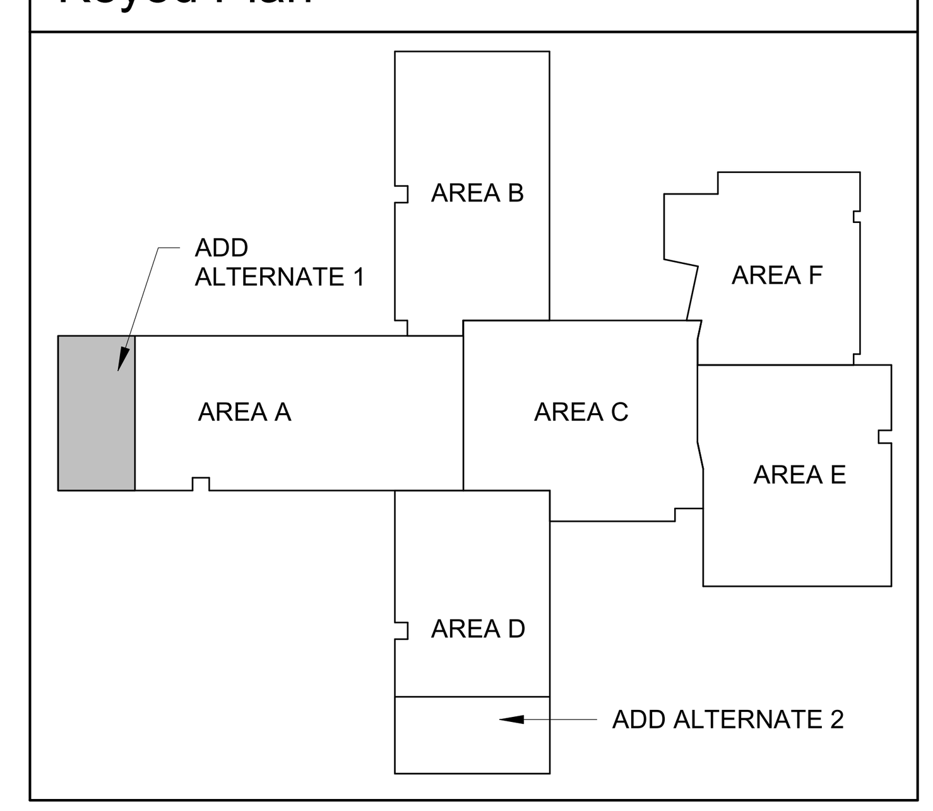
Legend

- FIRE WALL - 2 HR CMU
- FIRE WALL - 1 HR STUD WALL
- MATCHLINE

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD. (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. IMPACT RESISTANT PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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#	Description	Date
Revisions		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

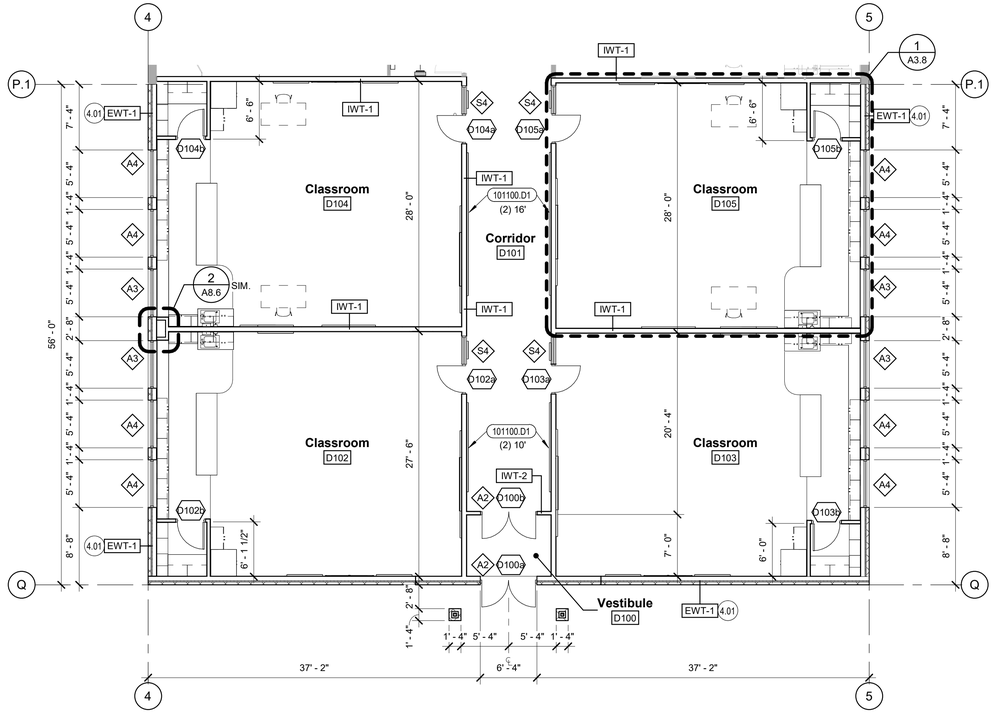
DRAWN BY: Author
CHECKED BY: Checker

BID SET

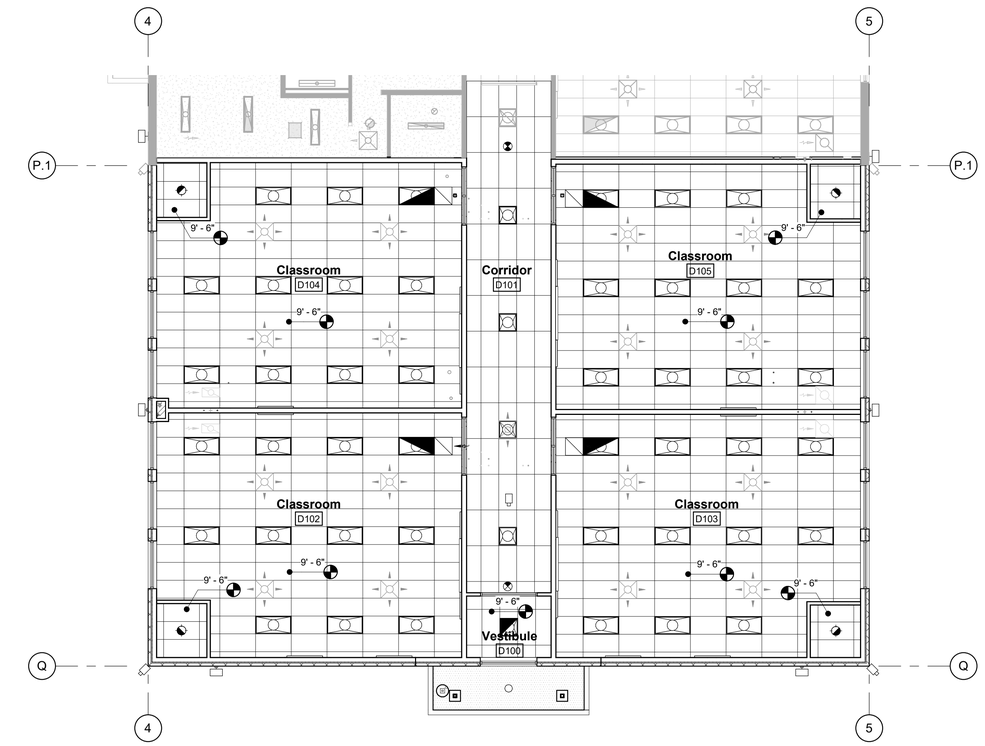
DRAWING NO.:

A3.9

FLOOR/CEILING PLAN - ADD ALTERNATE 1



1 ENLARGED FLOOR PLAN - ADD ALTERNATE 2
1/8" = 1'-0"



2 REFLECTED CEILING PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.

Keyed Notes

101100.D1	DISPLAY RAIL TACK STRIP, LENGTH PER PLAN

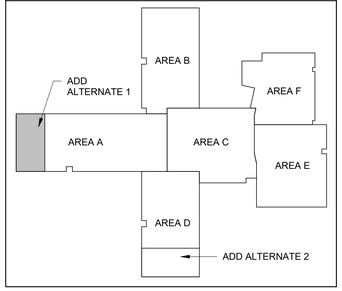
Legend

	FIRE WALL - 2 HR CMU
	FIRE WALL - 1 HR STUD WALL
	MATCHLINE

Legend

	TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
	TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
	CEILING HEIGHT ABOVE FINISHED FLOOR.
092900.A1	GYPSUM CEILING BOARD. SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
	SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
	SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
	SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. IMPACT RESISTANT PANELS.
	SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
	EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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LICENSED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

Revisions		
#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

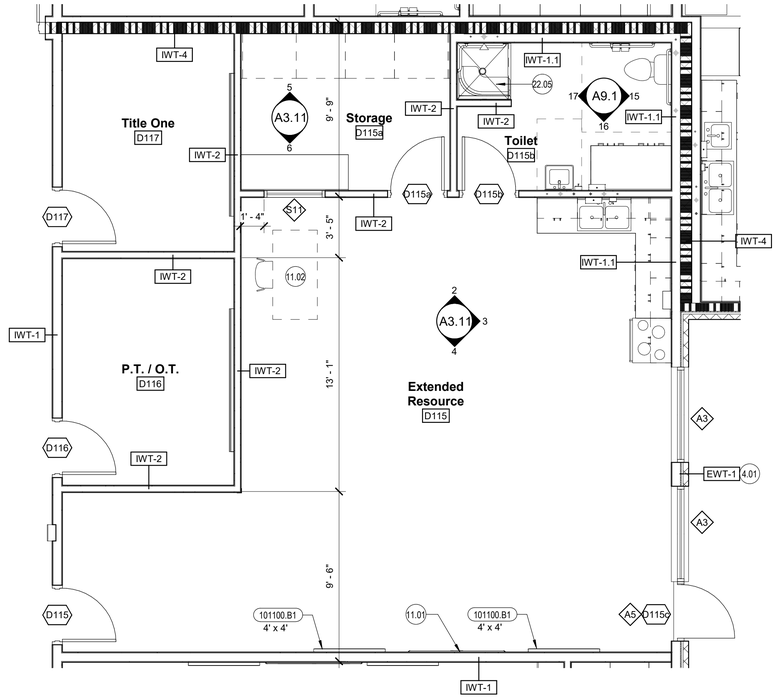
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

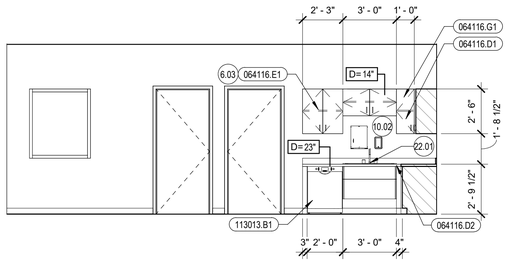
BID SET

DRAWING NO.:

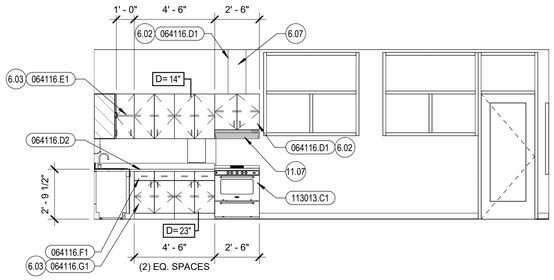
A3.10
FLOOR/CEILING PLAN – ADD ALTERNATE 2



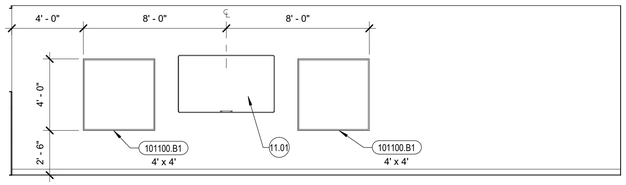
1 ENLARGED FLOOR PLAN - EXTENDED RESOURCE
1/4" = 1'-0"



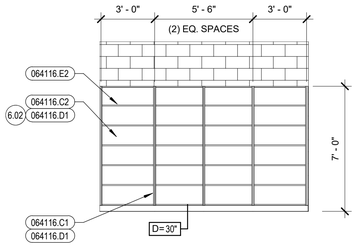
2 EXTENDED RESOURCE - NORTH
1/4" = 1'-0"



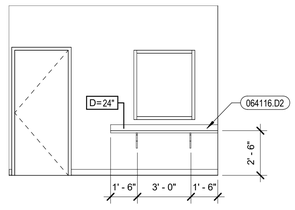
3 EXTENDED RESOURCE - EAST
1/4" = 1'-0"



4 EXTENDED RESOURCE - SOUTH
1/4" = 1'-0"



5 EXTENDED RESOURCE - STORAGE - NORTH
1/4" = 1'-0"



6 EXTENDED RESOURCE - STORAGE - SOUTH
1/4" = 1'-0"

General Millwork Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
7. TYPICAL COUNTERTOP CONSTRUCTION SHALL BE MINIMUM 3/4" PARTICLE BOARD WITH HIGH PRESSURE DECORATIVE LAMINATE AT TOPS AND BACKSPLASHES WITH 1 1/2" FRONT SELF EDGE UNLESS NOTED OTHERWISE. PVC EDGE BANDING, 0.12", (3mm) THICK, MATCHING LAMINATE COLOR, PATTERN, AND FINISH, TO BE AT VERTICAL COUNTER TOP SURFACES. RADIUS OUTSIDE COUNTER CORNERS WITH 1" RADIUS.
8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.
6.02	SIDE / END / LEG PANELS. TYPICAL AT UPPERS AND BASE CABINETS.
6.03	TYPICAL CABINET COMPONENT IDENTICAL AT UPPERS AND BASE CABINETS.
6.07	LAMINATE CLAD CHASE TO COVER HOOD VENT, 12"X12".
10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
11.01	O.F.C.I. FLAT SCREEN TV.
11.02	TEACHER STATION, O.F.O.I. (N.I.C.)
11.07	REFER TO MECHANICAL DOCUMENTS FOR OVEN HOOD AND VENT.
22.01	SINK. SEE PLUMBING DOCUMENTS.
22.05	SHOWER ASSEMBLY WITH COLLAPSIBLE THRESHHOLD. SEE PLUMBING DOCUMENTS.

Keyed Notes

064116.C1	3/4" PARTICLE BOARD
064116.C2	1/2" PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.E2	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 1" PARTICLE BOARD W/ H.P. DECORATIVE LAMINATE
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
113013.B1	DISHWASHER
113013.C1	RANGE AND OVEN

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LICENSED ARCHITECT
Brad Thrift
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

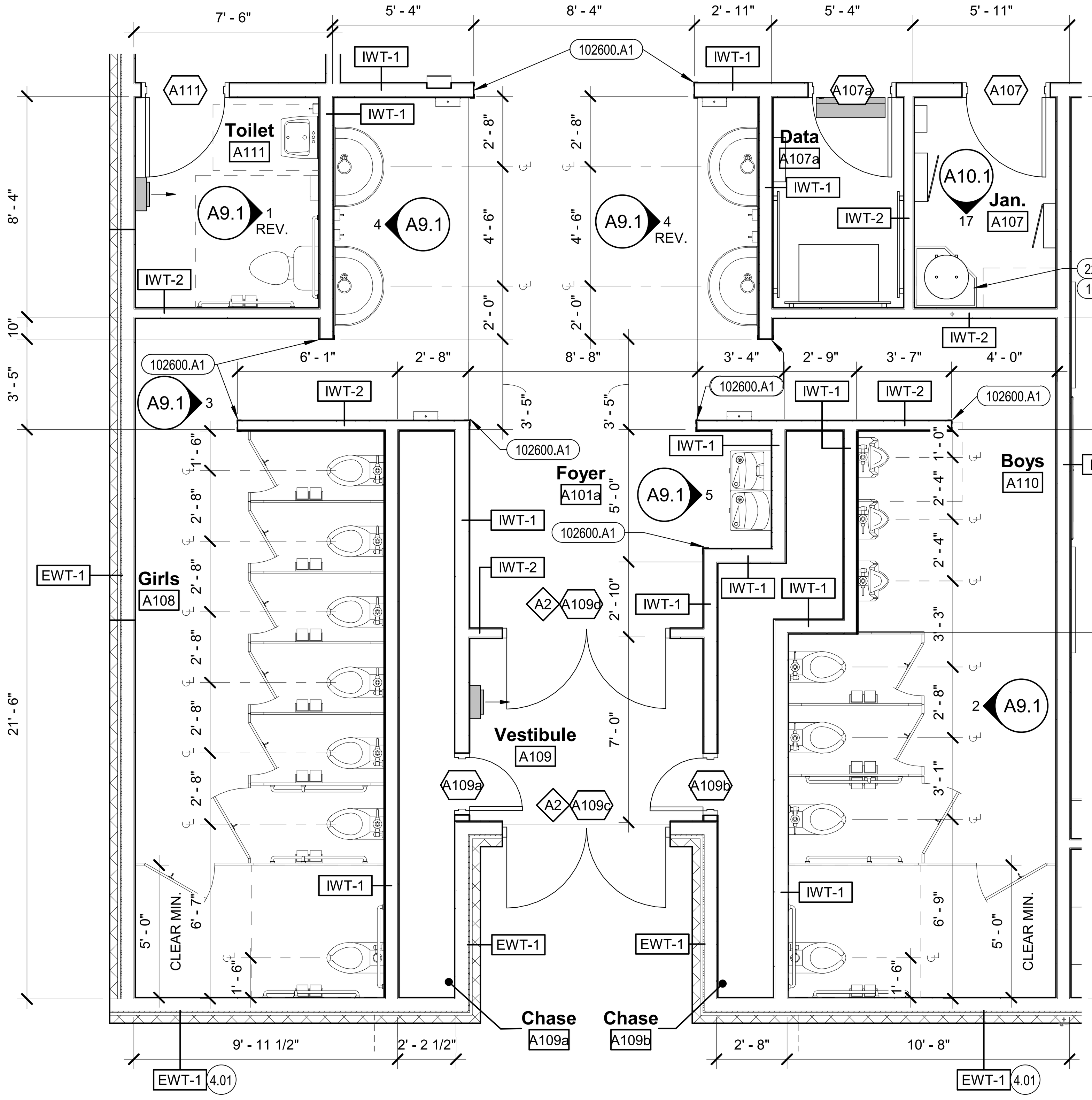
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

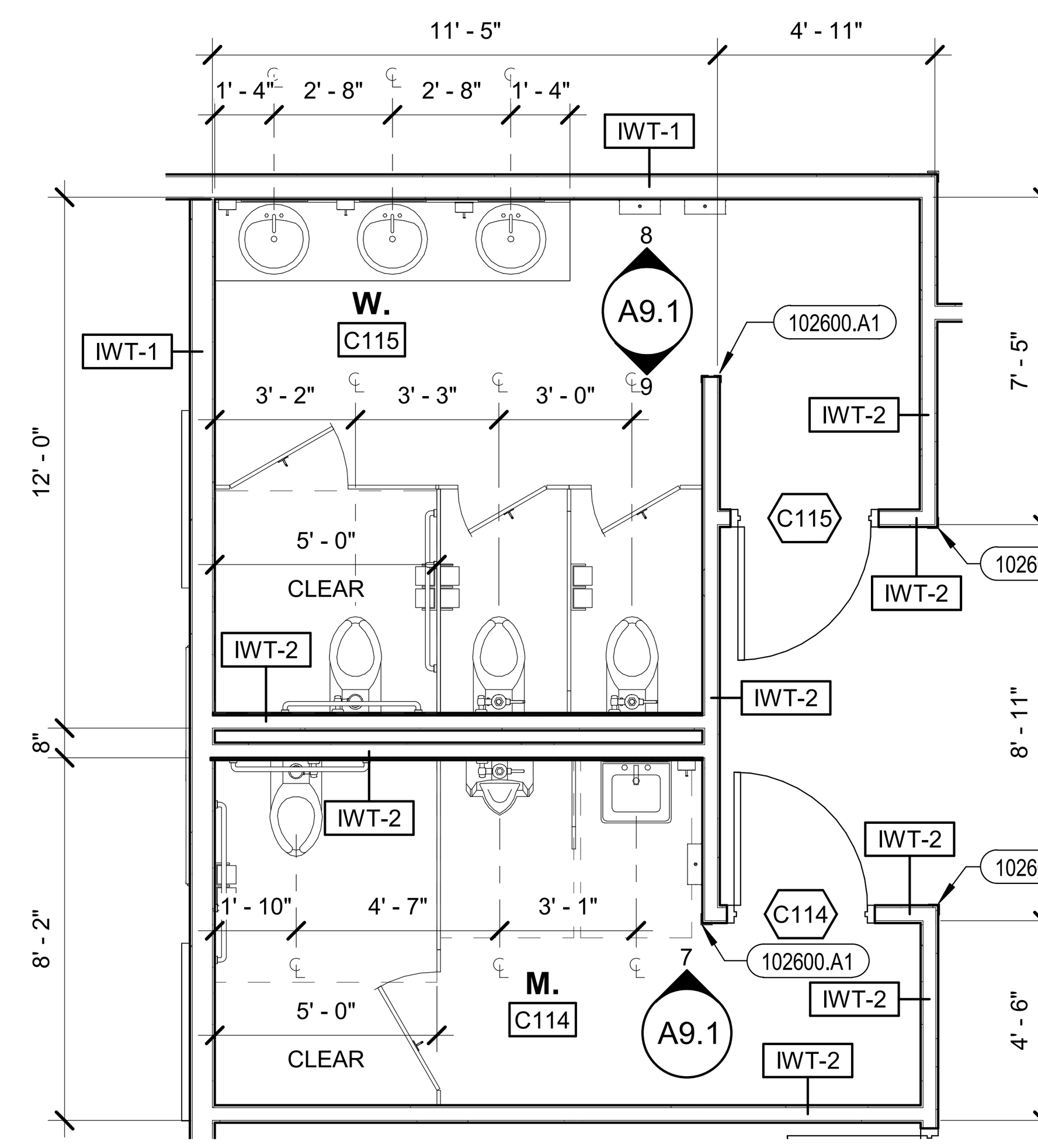
DRAWN BY: KB
CHECKED BY: BT

BID SET

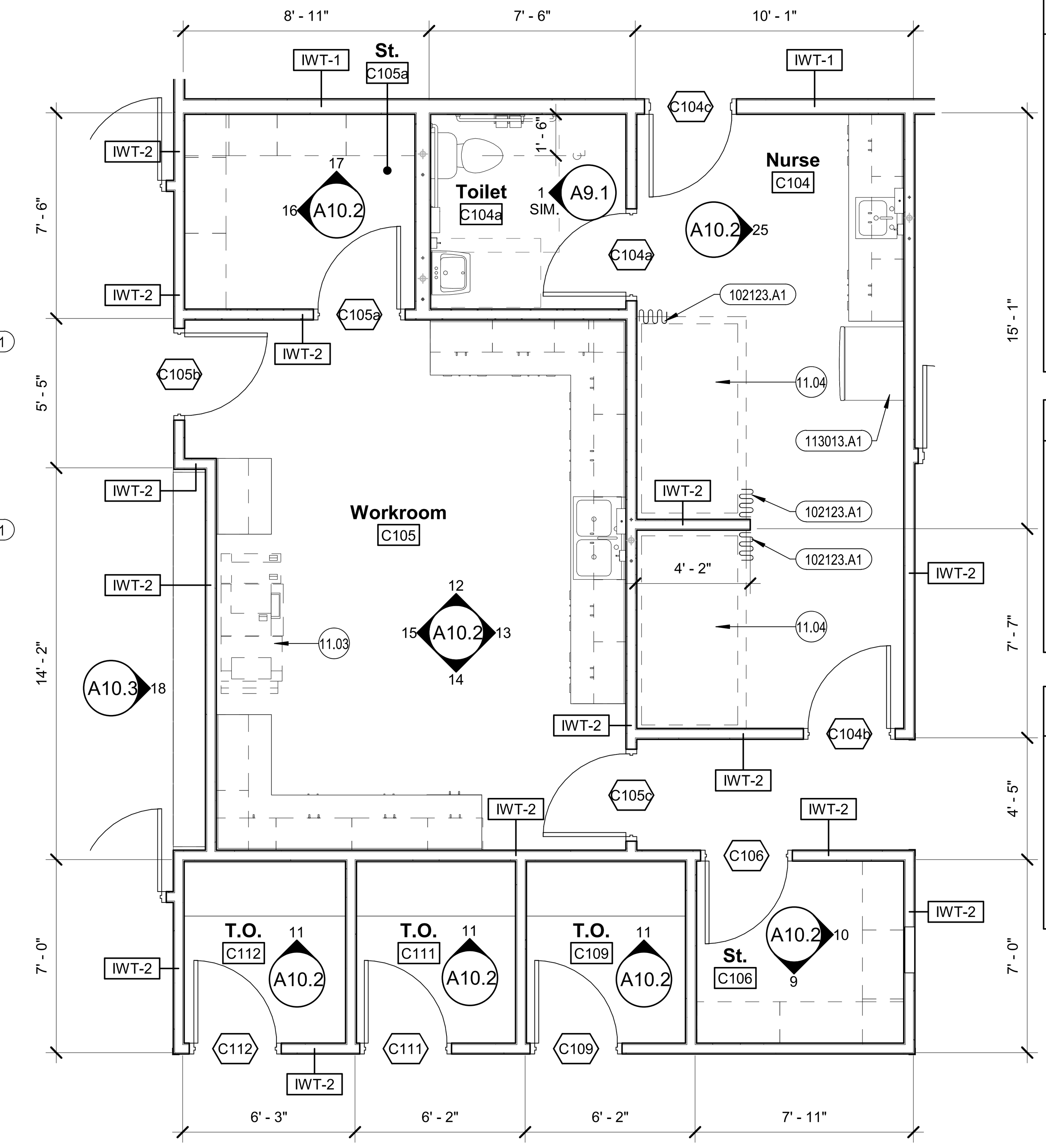
DRAWING NO.:
A3.11
ENLARGED PLANS - EXTENDED RESOURCE



1 ENLARGED FLOOR PLAN - RESTROOMS AREA A
1/4" = 1'-0"



2 ENLARGED FLOOR PLAN - ADMIN RESTROOMS
1/4" = 1'-0"



3 ENLARGED FLOOR PLAN - NURSE
1/4" = 1'-0"

General Notes

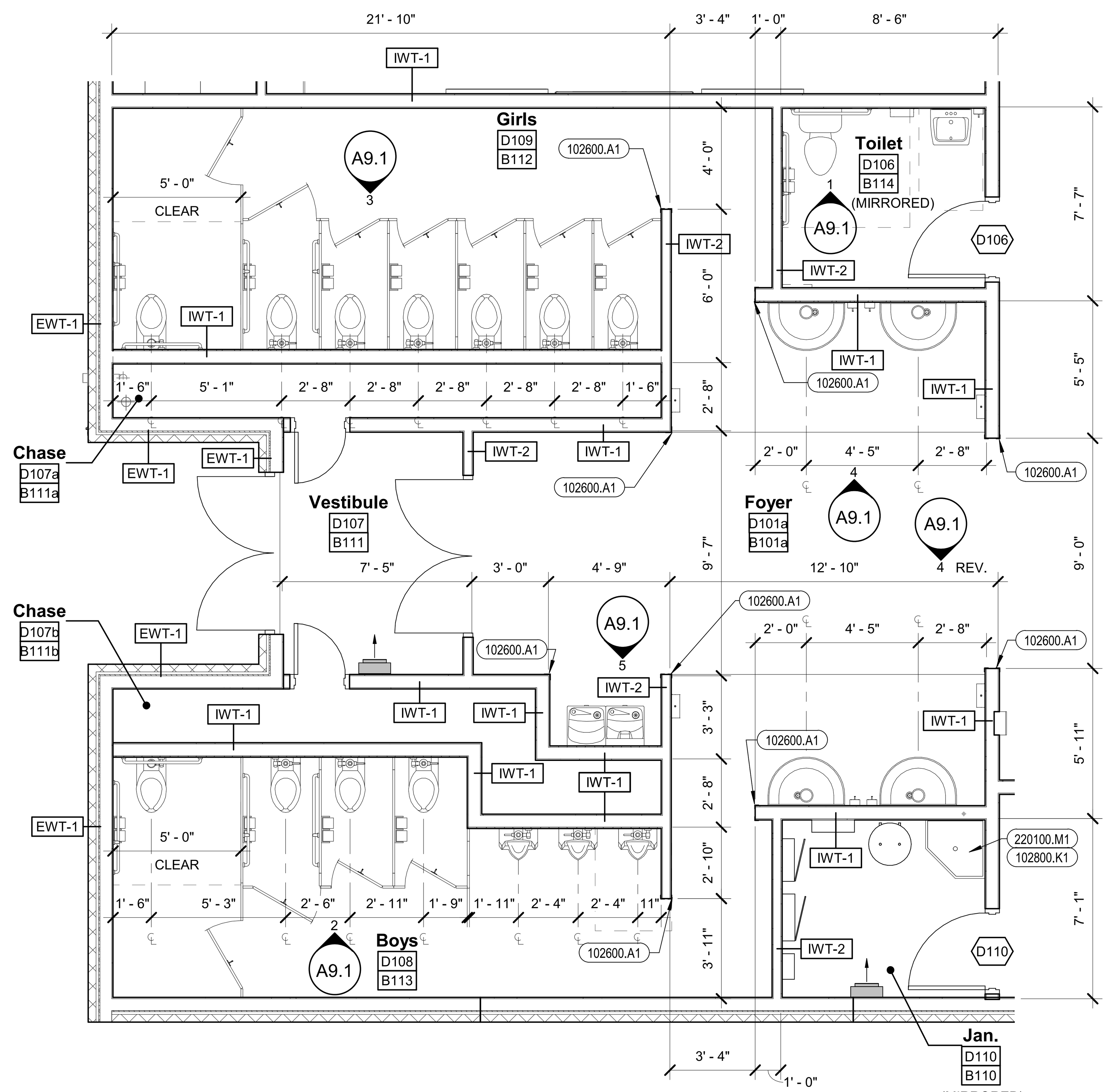
1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

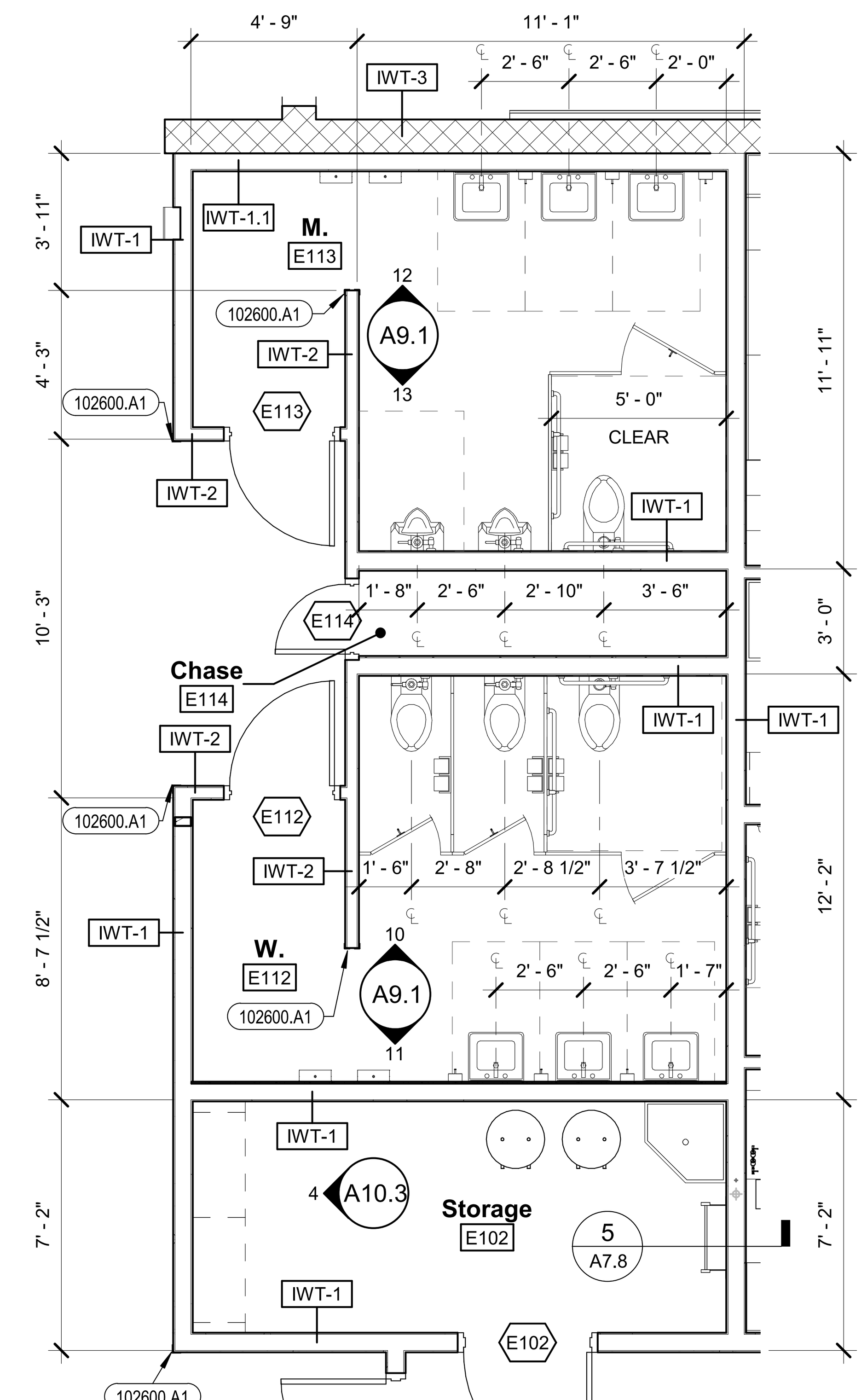
3.02	RECESSED SLAB. SEE STRUCTURAL DRAWINGS.
4.01	SEE EXTERIOR ELEVATIONS FOR MATERIAL CHANGES.
11.03	COPY MACHINE, O.F.O.I.
11.04	NURSE BED(S), O.F.O.I.
22.05	SHOWER ASSEMBLY WITH COLLAPSIBLE THRESHHOLD, SEE PLUMBING DOCUMENTS.
23.02	ROOM TO BE EQUIPPED WITH EXHAUST FAN, FIRE HORN, AND SPRINKLER HEAD.

Keyed Notes

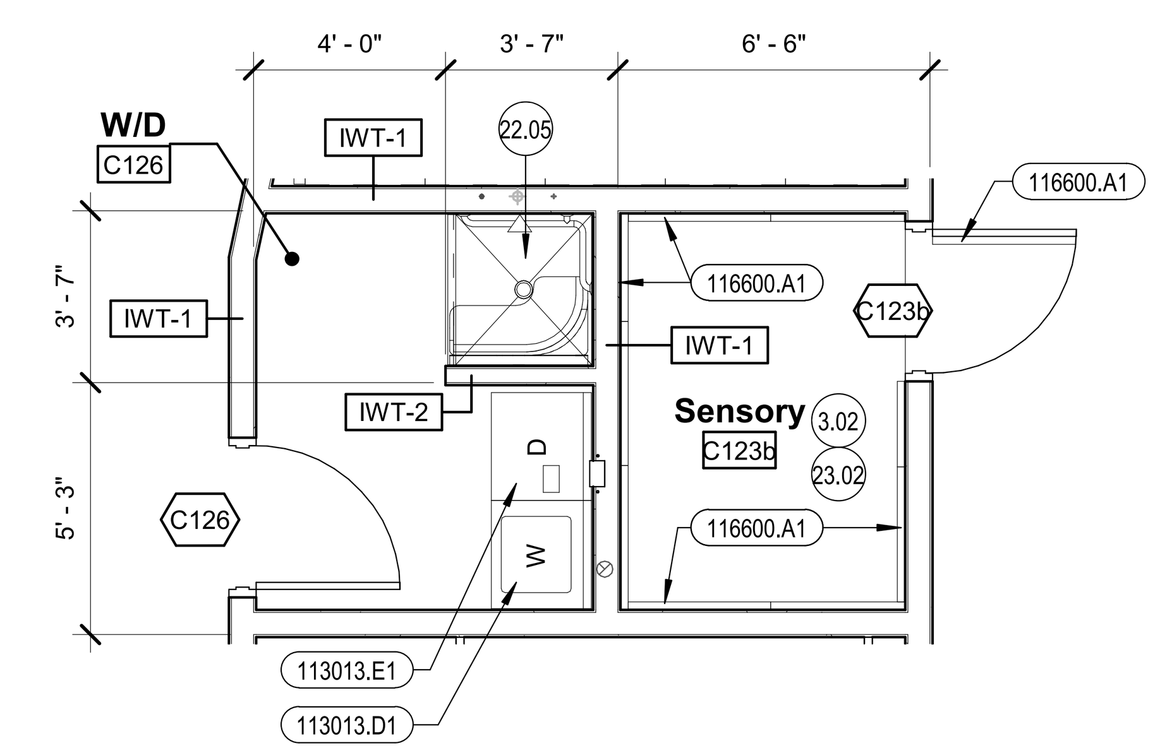
102123.A1	CUBICLE CURTAIN
102600.A1	CORNER GUARD, 90 DEGREE, 4'-0"
102800.K1	MOP HOOK.
113013.A1	REFRIGERATOR
113013.D1	WASHER
113013.E1	DRYER
116600.A1	SAFETY WALL PADS
220100.M1	MOP SINK



4 ENLARGED FLOOR PLAN - RESTROOMS
1/4" = 1'-0"



5 ENLARGED FLOOR PLAN - CAFETERIA RESTROOMS
1/4" = 1'-0"



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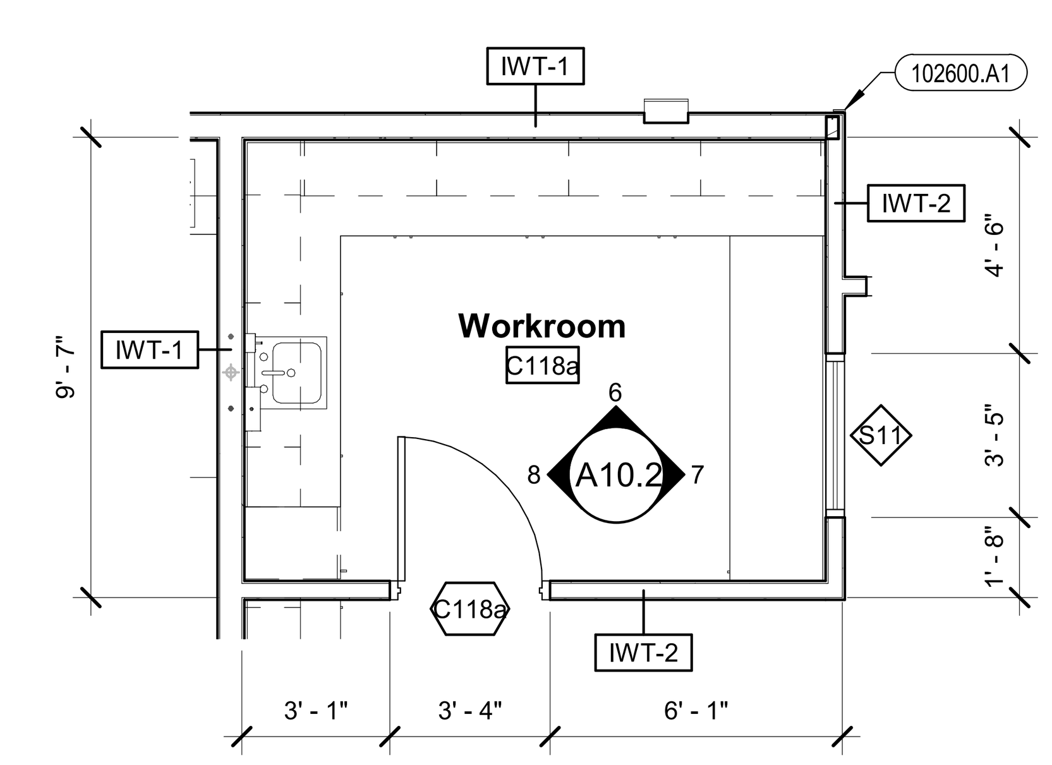
1/4" = 1'-0"



7 ENLARGED FLOOR PLAN - LIBRARY WORKROOM
1/4" = 1'-0"

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#	Revisions Description	Date

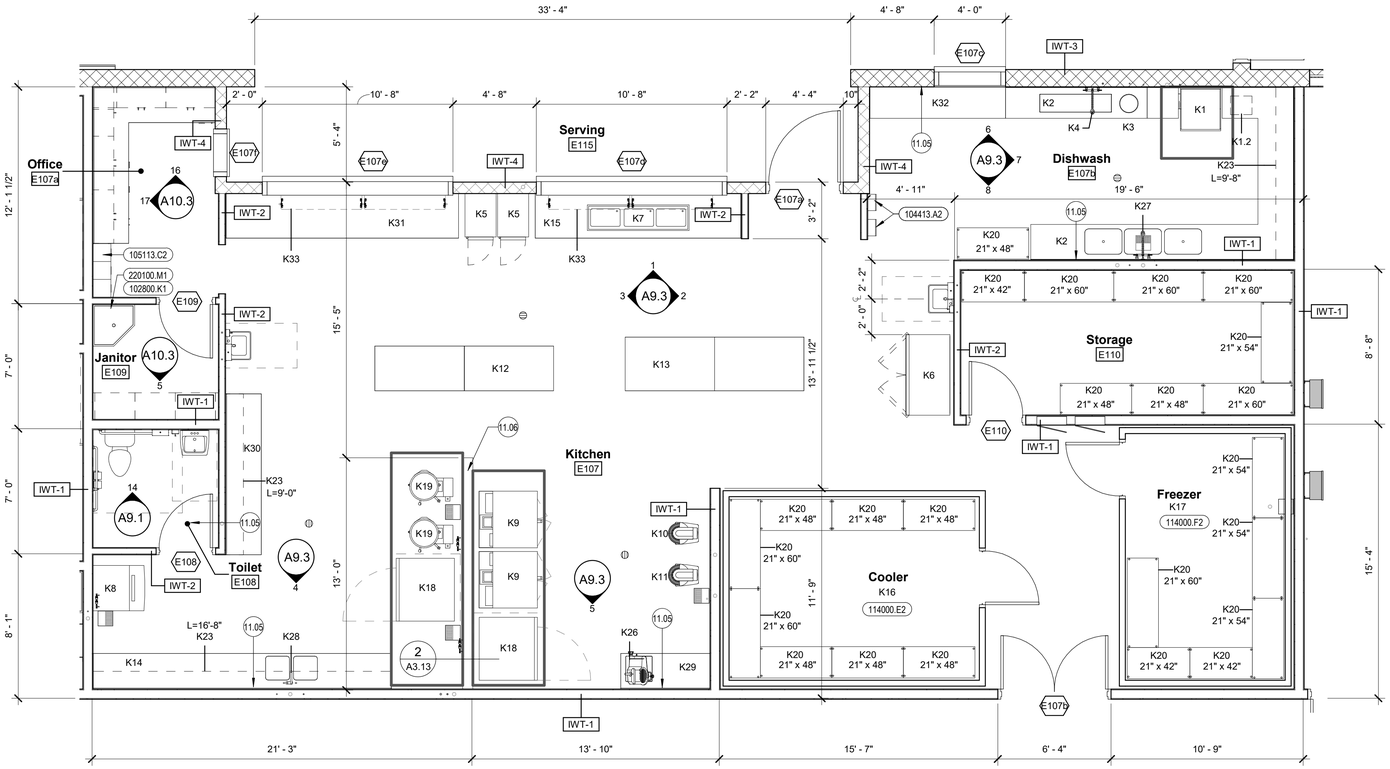
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

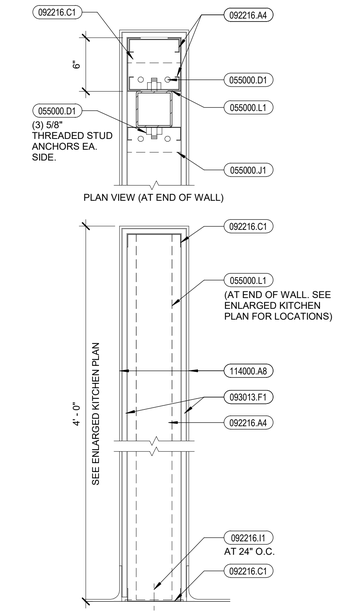
DRAWING NO.:
A3.12
ENLARGED FLOOR PLANS



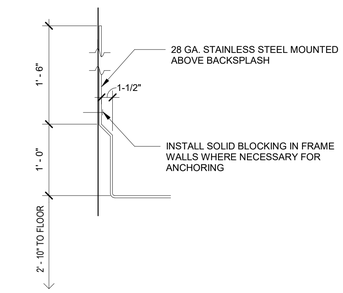
1 ENLARGED FLOOR PLAN - KITCHEN
1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE

ITEM #	QTY.	DESCRIPTION OF NEW EQUIPMENT	MANUFACTURER / MODEL	PLUMBING CONNECTIONS				ELECTRICAL CONNECTIONS	REMARKS
				COLD	HOT	WASTE	VENT		
K1	1	DISHWASHER	'HOBART' AM-16T-BAS	3/4"	2"	1 1/2"		208v / 60 / 3ph , 1 hp / 5 KW HEATER	(2) 30 AMP BREAKERS
K1.2	1	BOOSTER HEATER	'HATCO' C-15		3/4"	3/4"		208V / 60 / 3-PHASE, 15 KW	
K2	1	DISHTABLE WITH TROUGH AND TRIPLE SINK	CUSTOM FABRICATED REFER TO DETAILS						14 GA STAINLESS STELL TOP, COVE, ALL VERT. TO HORIZ INTERSECTIONS, RADIU ALL BENDS, SHELF UNDER, SIM.
K3	1	GARBAGE DISPOSER	'HOBART' FD4/150	1/2"		2"		1 1/2 hp, 208/240 v, 8 amps	PROVIDE GROUP B ACCESSORIES AND 18" CONE SINK WITH WATER SWIRL.
K4	1	PRE-RINSE UNIT	'T&S' BRASS & BRONZE B-0133-B WITH B-0155 W/ SWING NOZZLE SIZED TO SINKS	1/2"	1/2"				PROVIDE W/ B109 WALL BRACKET AND HANDWASH FAUCET
K5	2	HOT FOOD CABINET	METRO C539-CDC					120v, 16a, 60H2	DUTCH DOORS, INSULATED, HOLDING AND PROOFING
K6	1	REACH-IN REFRIGERATOR	BEVERAGE-AIR HRS2HC-1G						DOUBLE DOORS, GLASS DOOR
K7	1	STEAM DROP IN	ADVANCE TABCO SLIMLINE DISLS-3-240-M					208/240v, 14 AMPS, 3300 WATTS	RECESS PANS 1/2", BOTH STEAM AND DRY HEAT. OPEN SHELVING, ON CASTERS
K8	1	ICE MAKER / ICE BIN	AVANTCO ICE KMC-350-B2F	3/4"				1 PHASE / 60 / 12 AMPS / 115 VOLTS	
K9	2	DBL. STACK CONVECTION OVEN (ELECTRIC)	VULCAN VC44ED					208V / 60 / 1 OR 3 PH, 25 KW (EACH)	PROVIDE WITH CASTORS.
K10	1	MIXER, 40 QT.	'HOBART' HL300					3/4 HP / 230v / 50 / 1	PROVIDE WITH ACCESSORY PACKAGE.
K11	1	MIXER, 60 QT.	'HOBART' HL600					3/4 HP / 230v / 50 / 1	PROVIDE WITH ACCESSORY PACKAGE.
K12	2	S.S. TABLE	'DUKE' 416-2460						(2) TIERS OF (3) 'DUKE' 185 DRAWERS
K13	2	S.S. TABLE	'DUKE' 416-2460						(2) TIERS OF (3) 'DUKE' 185 DRAWERS
K14	1	S.S. TABLE W/ (2) SINKS 24" x 22"	CUSTOM FABRICATED REFER TO DETAILS	1/4"	1/4"	1 1/2"	1 1/2"		PROVIDE 'DUKE' 314659 DRAIN AT ALL SINKS. REFER TO MECHANICAL FOR PIPING SIZES AND LOCATIONS. PROVIDE DRAIN BOARD AND (3) DUKE 185 DRAWERS.
K15	1	SERVICE COUNTER	CUSTOM FABRICATED REFER TO DETAILS	1/4"	1/4"	1 1/2"	1 1/2"		INSTALL K7
K16	1	WALK - IN COOLER	KOLPACK 4" PANELS			3/4"		208v / 60 / 3ph 19.6 AMPS 2 1/2 HP	REFER TO KITCHEN EQUIPMENT NOTES.
K17	1	WALK - IN FREEZER	KOLPACK 4" PANELS						REFER TO KITCHEN EQUIPMENT NOTES.
K18	2	SINGLE STACK COMBI OVEN (ELECTRIC)	RATIONAL ICOMBI PRO 20 -1/1	3/4"		3/4"		3 PH / 37 KW / 208 V	
K19	2	STEAM KETTLE	'CLEVELAND' KET 12-T	1/2"	1/2"	1/2"		208-240v / 3-PH, 10 KW	2" TANGENT DRAW OFF VALVE WITH DRAIN STRAINER. HOT AND COLD WATER FAUCET WITH SWING SPOUT AND MOUNING BRACKET. KETTLE ACCESSORY KIT AND SPRING ASSISTED COVER AND COOKING BASKETS W/ ST28 EQUIPMENT STAND.
K20	23	WIRE SHELVING UNIT (SIZE VARIES)	'METRO' SUPER ERECTA						4-TIER, EPOXY COATED, MICROBAN PROTECTION AND ALUMINUM SPLIT SLEEVES FOR COOLER / FREEZER SHELVING 21" DEEP X LENGTH INDICATED
K23	3	WIRE SHELVING UNIT, WALL MOUNTED	'UNIVERSAL' STAINLESS						12" DEEP X LENGTH INDICATED
K26	1	FOOD SLICER (TABLE TOP)							
K27	1	PRE-RINSE UNIT	'T&S' BRASS & BRONZE B-0133-B WITH B-0155 W/ SWING NOZZLE SIZED TO SINKS	1/2"	1/2"				PROVIDE W/ B109 WALL BRACKET AND HANDWASH FAUCET
K28	1	DOUBLE SINK MIXING FAUCET	'T&S' B-0221	1/2"	1/2"				DECK MOUNTED
K29	1	S.S. TABLE	CUSTOM FABRICATED REFER TO DETAILS						REFER TO PLUMBING FOR PIPING SIZES AND DRAINS.
K30	1	S.S. TABLE	CUSTOM FABRICATED REFER TO DETAILS						
K31	1	SERVICE COUNTER	CUSTOM FABRICATED REFER TO DETAILS						
K32	1	S.S. DISHTABLE	CUSTOM FABRICATED REFER TO DETAILS						REFER TO PLUMBING FOR PIPING SIZES AND DRAINS.
K33	2	SNEEZE GUARD - CEILING MOUNTED	'BSI' ZG9500-5 EZ SPAN						



2 KITCHEN WALL
1 1/2" = 1'-0"



3 BACKSPLASH DETAIL
1/4" = 1'-0"

Kitchen Equipment Notes

1. ALL SHOP AND FIELD JOINTS IN STAINLESS STEEL. TOPS OF DISHTABLE K2, K15, K14, K29, K30, K31, AND SERVING COUNTER(S) K15 AND K31 SHALL BE CONTINUOUSLY WELDED WITH STAINLESS STEEL ROD AND GROUND SMOOTH TO FORM SEAMLESS TOP.
2. MECHANICAL CONTRACTOR SHALL RUN SUPPLY, WASTE, AND VENT PIPING TO AND SHALL MAKE CONNECTIONS TO ALL ITEMS OF KITCHEN EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL RUN CONDUIT AND CONDUCTORS TO AND SHALL PROVIDE J-BOXES, OUTLETS, BREAKERS, ETC. FOR ALL ITEMS OF KITCHEN EQUIPMENT.
4. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL ALL FAUCETS, DRAINS, TRAPS, STRAINERS, ETC. FOR SINKS IN KITCHEN EQUIPMENT K14 AND K2.
5. ALL KITCHEN EQUIPMENT SHALL BE NSF APPROVED. ITEMS K2, K14, K15, K29, K30, K31 SHALL BE CONSTRUCTED IN ACCORDANCE WITH NSG STANDARDS.
6. CONDENSING UNITS FOR ITEMS K16 AND K17 SHALL BE LOCATED ON THE ROOF. REFER TO MECHANICAL AND ROOF PLAN. EACH CONDENSING UNIT SHALL BE PROVIDED WITH MANUFACTURER'S STANDARD.
   A. WEATHERPROOF OF CONTROLS
   B. PUMP DOWN CYCLE
   C. HEAD PRESSURE CONTROL VALVE
   D. CRANKCASE HEATER
   E. CURBS FOR ROOF MOUNTED INSTALLATION (CURBS SHOULD ACCOUNT FOR DEPTH OF INSULATION).
   F. PROTECTED STEEL COVER.
7. PREFABRICATED COOLER / FREEZER PANELS TO MEET REQUIREMENTS OF INTERNATIONAL BUILDING CODE.
8. ITEMS K16 AND K17 SHALL MEET THE FOLLOWING CRITERIA
   A. SIZES SHALL BE SHOWN ON THE DRAWINGS AND HEIGHT SHALL BE 8'-6" CLEAR INSIDE
   B. WALLS SHALL BE 4" THICK R34. ROOF (CEILING) PANELS SHALL MATCH WALL PANELS. FINISH OF PANELS SHALL BE:
      a. OUTSIDE - 26 GA. EMBOSSED GALVANIZED STEEL WITH BAKED ON POLYESTER ENAMEL.
      b. INSIDE - 0.032" EMBOSSED ALUMINUM.
   C. FLOOR SHALL BE RECESSED TO ACCOMMODATE INSULATED FLOOR PANELS. FLOOR PANELS SHALL HAVE A SPRAYED NON-SLIP EPOXY FLOOR FINISH. 1" OSB SUBFLOOR BACKING. THICKNESS OF FLOOR PANELS SHALL BE 3".
   D. DOORS SHALL BE STANDARD IN FITTING OVER LAP TYPE 36" X 80".
   E. PROVIDE ALL ACCESSORIES AND COMPONENTS AS REQUIRED FOR COMPLETE AND OPERATIONAL COOLER / FREEZER INSTALLATION, MEETING ALL APPLICABLE CODES, REGULATIONS, AND STANDARDS.
   F. ENCLOSURES SHALL BE LISTED BY THE NATIONAL SANITATION FOUNDATION (N.S.F.) STANDARD #7 AND SHALL BEAR THE N.S.F. SEAL OF APPROVAL
   G. PROVIDE 26 GA. STAINLESS STEEL CLOSURE STRIP AT TOP OF FREEZER / COOLER UNITS TO TERMINATE AT SUSPENDED CEILING.
   H. PROVIDE A SINGLE WALL PANEL BETWEEN THE FREEZER AND COOLER UNITS.
   I. GROUT BETWEEN FLOOR SLAB AND COOLER / FREEZER UNIT PER MANUFACTURER SPECS.

General Notes

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2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
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8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

11.05	STAINLESS STEEL BACKSPLASH DETAIL. SEE DETAIL 3 / A3.13
11.06	STAINLESS STEEL WALL CLADDING OVER CEMENTITIOUS BACKER UNIT. SEE DETAIL 2 / A3.13

Keyed Notes

055000.D1	BOLT(S)
055000.J1	STEEL PLATE
055000.L1	STEEL TUBE
092216.A4	STEEL STUD(S) 6" 20 GA. @ 16" O.C. U.N.O.
092216.C1	STEEL STUD TRACK, SAME WIDTH AND GUAGE AS STUDS U.N.O.
092216.I1	POWER DRIVEN ANCHOR(S)
093013.F1	CEMENTITIOUS BACKER UNITS, 5/8"
102800.K1	MOP HOOK.
104413.A2	FIRE EXTINGUISHER CABINET, SURFACED MOUNTED
105113.C2	METAL DRESSING LOCKERS, DOUBLE TIER.
114000.A8	16 GA. STAINLESS STEEL CLADDING
114000.E2	REFRIGERATOR (WALK-IN)
114000.F2	FREEZER (WALK-IN)
220100.M1	MOP SINK

LKV ARCHITECTS
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Boise, Idaho 83706
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REGISTERED ARCHITECT
Brock Thrust
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

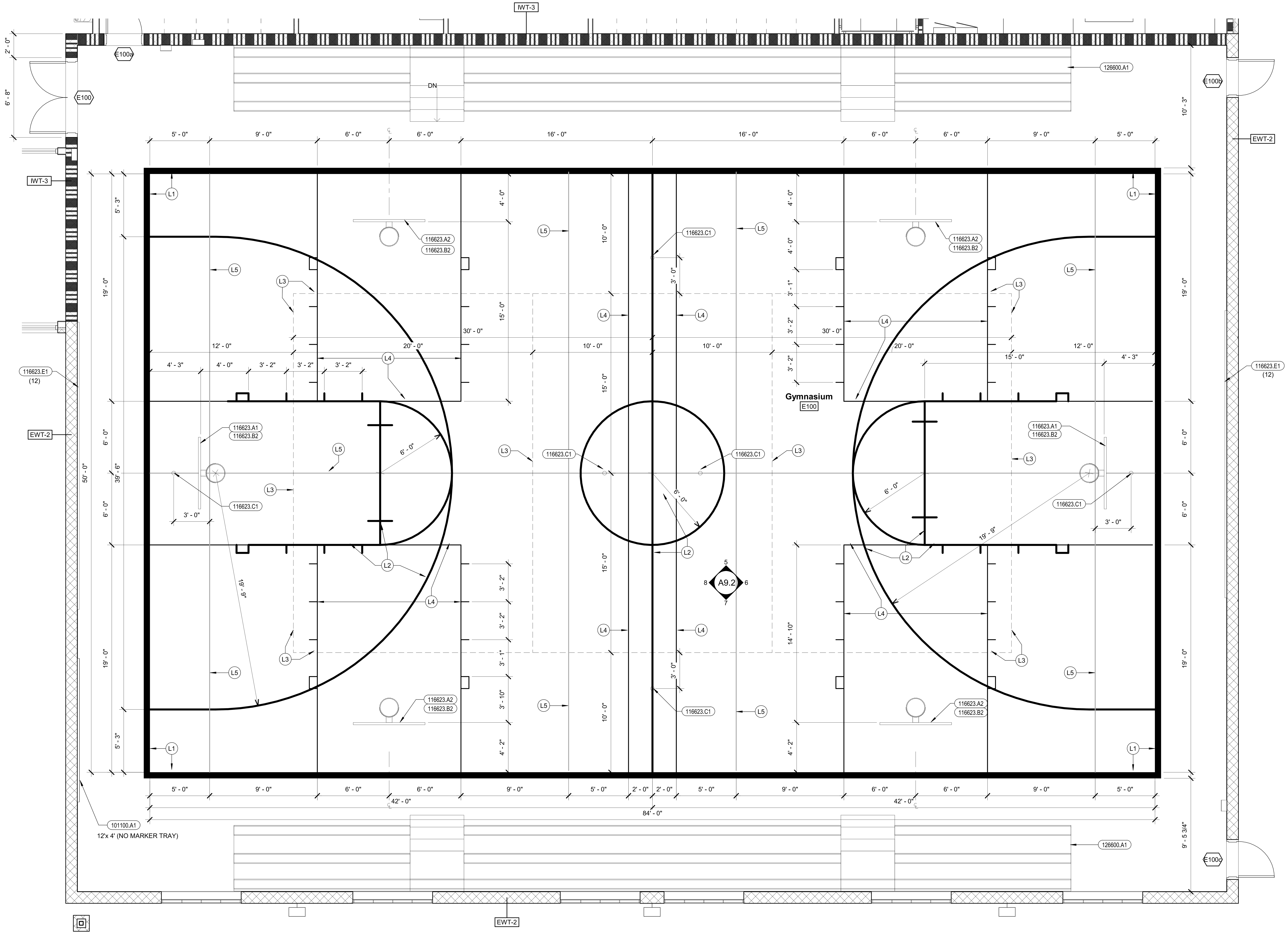
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:

A3.13
ENLARGED FLOOR PLAN - KITCHEN



1 ENLARGED FLOOR PLAN - GYMNASIUM
1/4" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CONCRETE WALL/CMU UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
5. SEE SHEET A4.2 FOR DOOR SCHEDULE.

Reference Notes

Keyed Notes

101100.A1	PORCELAIN ENAMEL MARKERBOARD, FIXED
116623.A1	BASKETBALL BACKSTOP - GLASS
116623.A2	BASKETBALL BACKSTOP - FIBERGLASS
116623.B2	BASKETBALL BACKSTOP SUPPORT - FORWARD FOLDING
116623.C1	VOLLEYBALL POST FLOOR SLEEVE AND COVER
116623.E1	GYMNASIUM WALL PADS (2' X 6')
126600.A1	TELESCOPING BLEACHERS, WALL ATTACHED, FORWARD FOLD

Legend

L1	BASKETBALL COURT 6" SOLID PAINT STRIPE, COLOR 'A'
L2	BASKETBALL COURT 2" SOLID PAINT STRIPE, COLOR 'A'
L3	VOLLEYBALL COURT 2" SOLID PAINT STRIPE, COLOR 'B'
L4	SCOOTER HOCKEY BOXES 1" SOLID PAINT STRIPE, COLOR 'C'
L5	COLOR LINES 2" SOLID PAINT STRIPE, (6) COLORS PER ARCHITECT

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

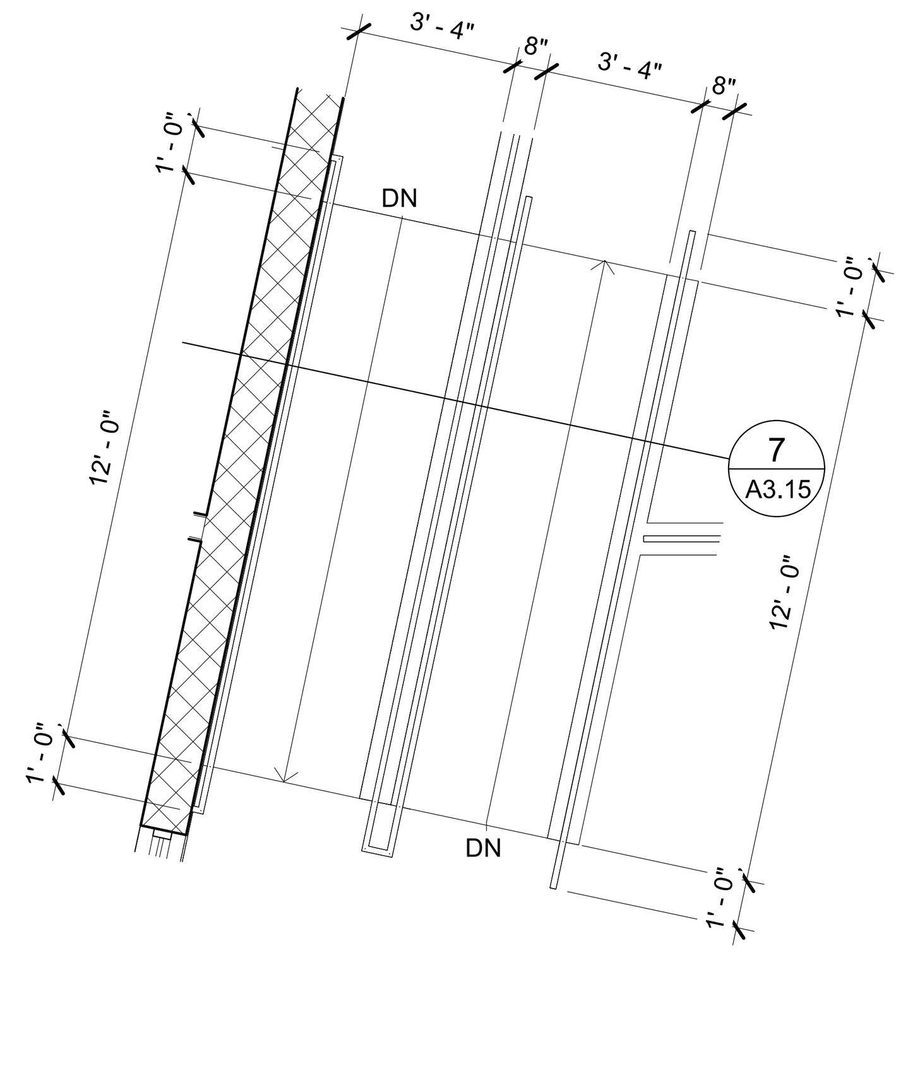
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

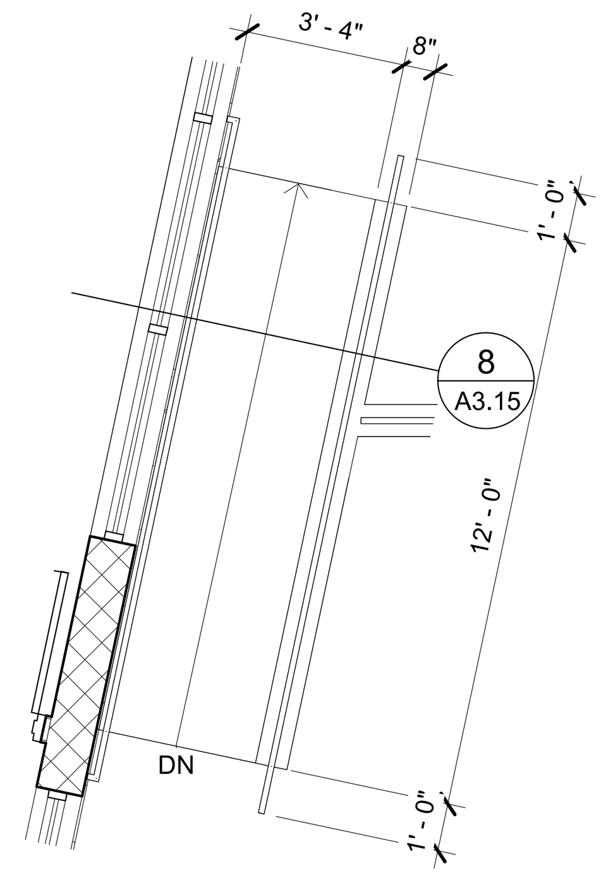
BID SET

DRAWING NO.:

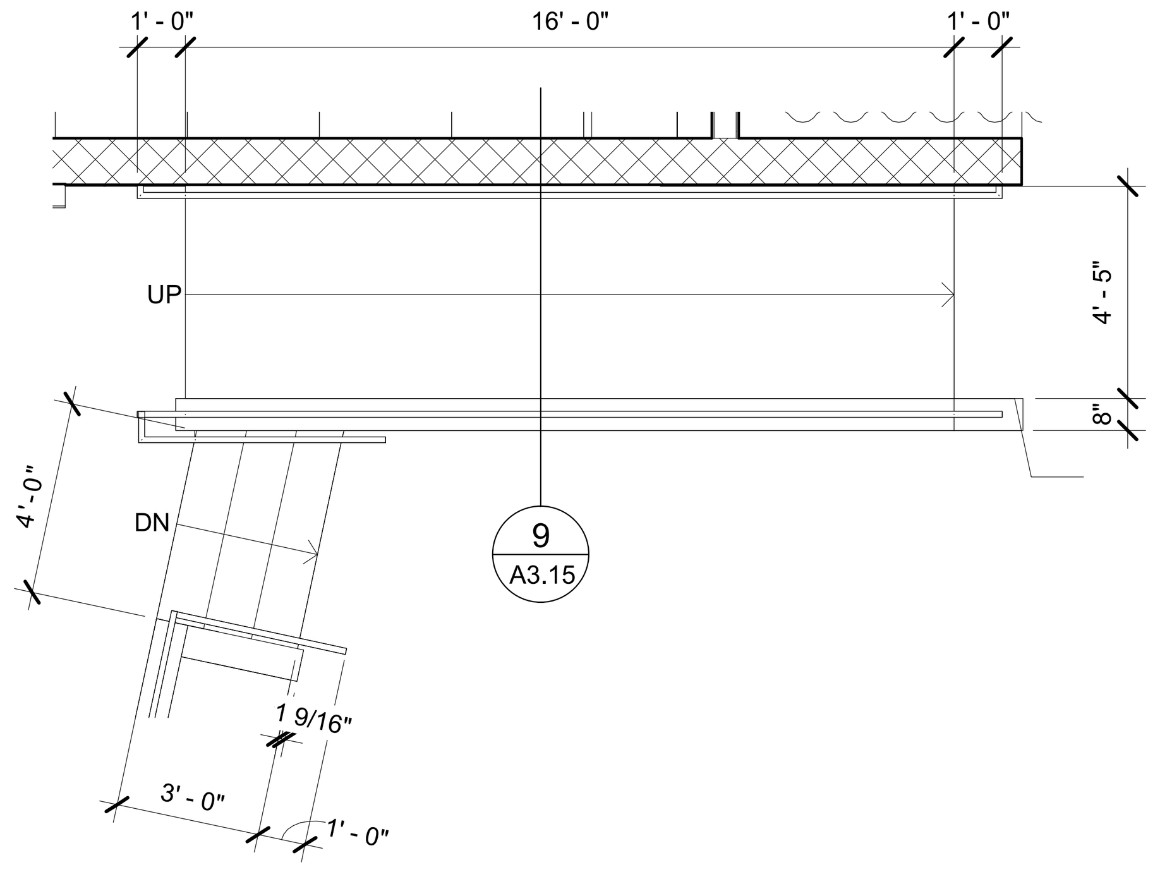
A3.14
ENLARGED FLOOR PLAN - GYMNASIUM



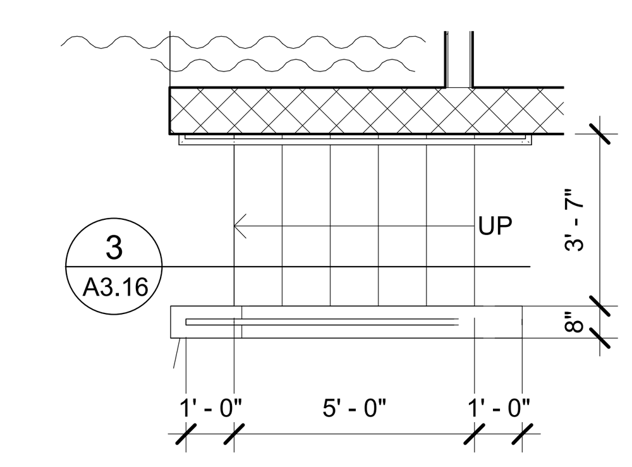
1 ENLARGED FLOOR PLAN - RAMP 1
1/4" = 1'-0"



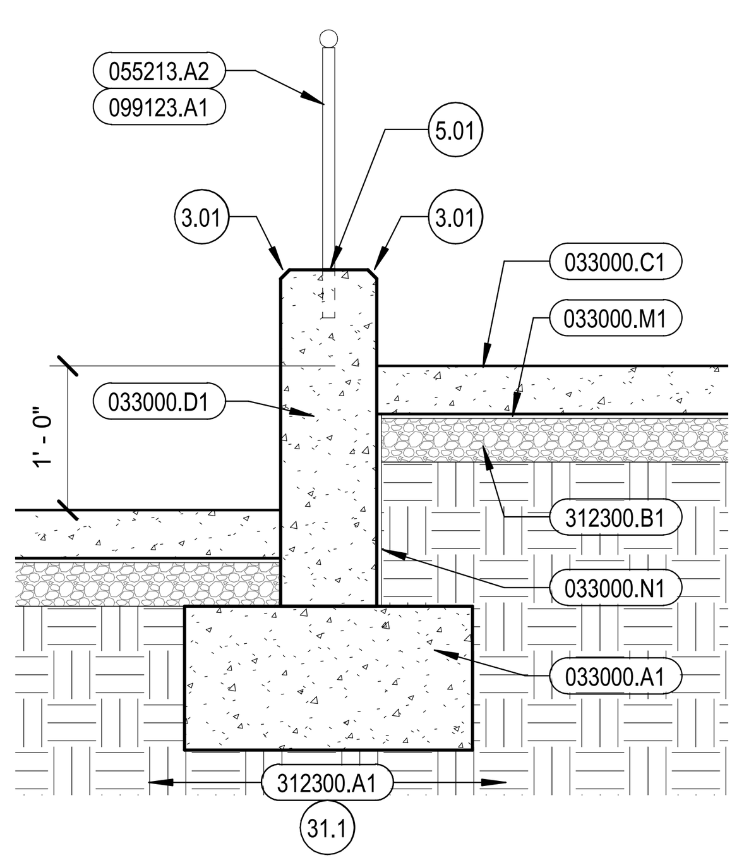
2 ENLARGED FLOOR PLAN - RAMP 2
1/4" = 1'-0"



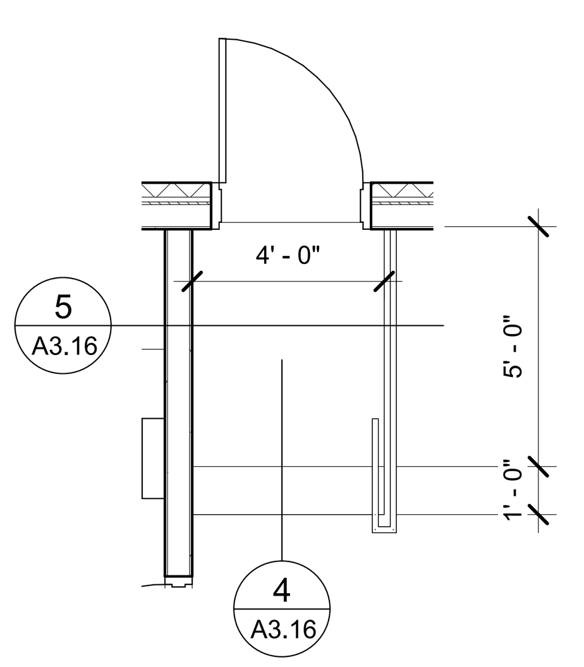
3 ENLARGED FLOOR PLAN - STAGE RAMP
1/4" = 1'-0"



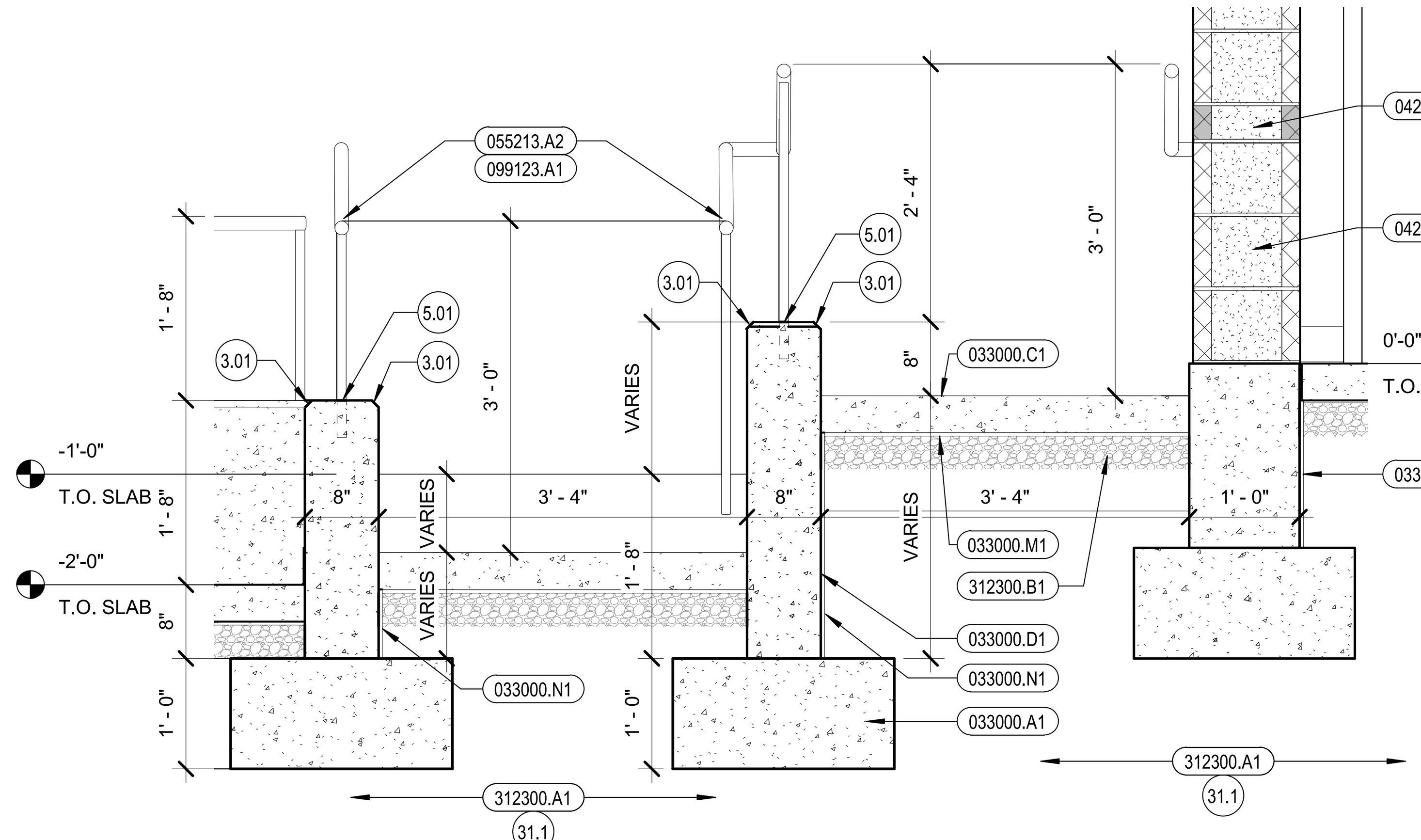
4 ENLARGED FLOOR PLAN - STAGE STAIRS
1/4" = 1'-0"



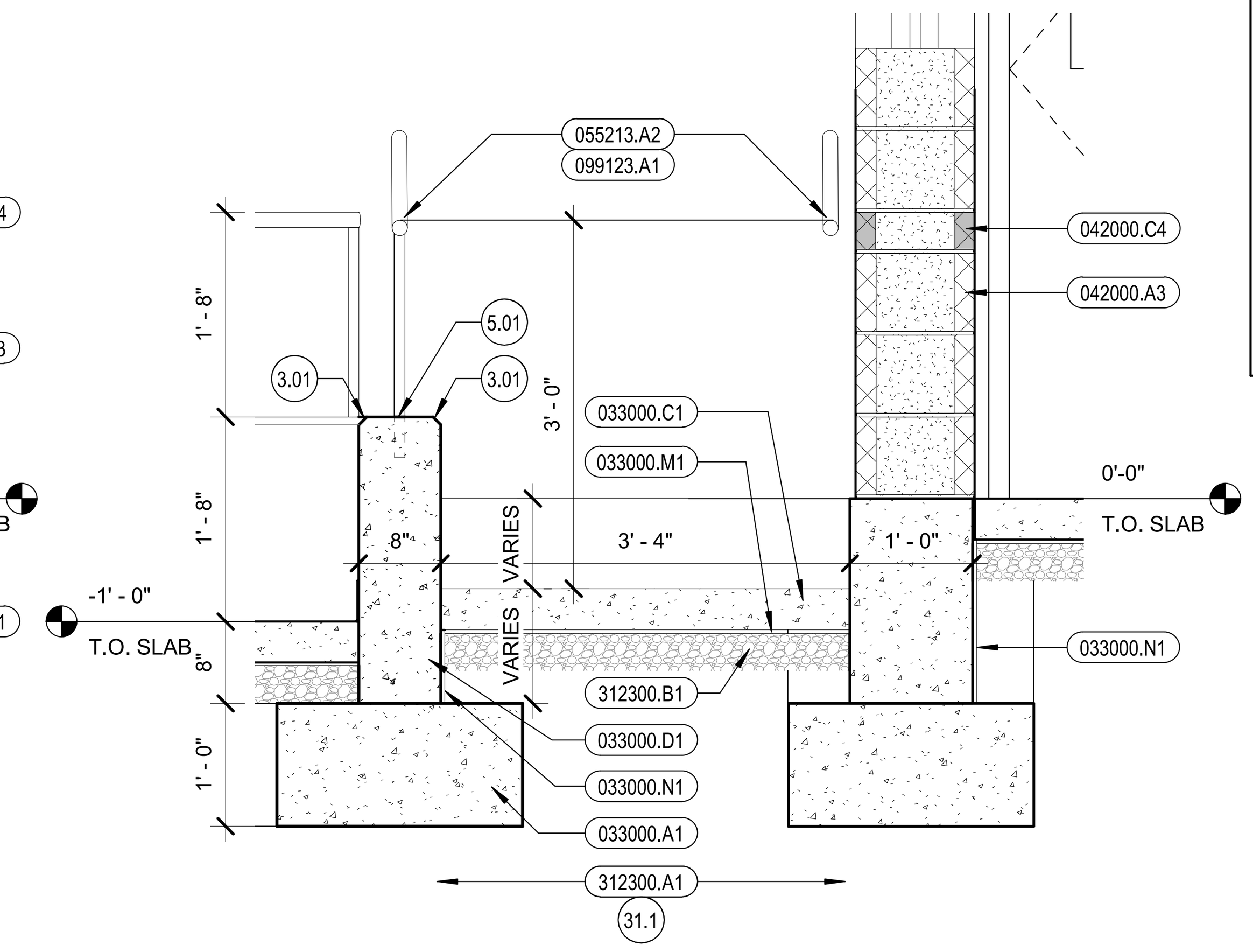
5 CAFETERIA RAILING
3/4" = 1'-0"



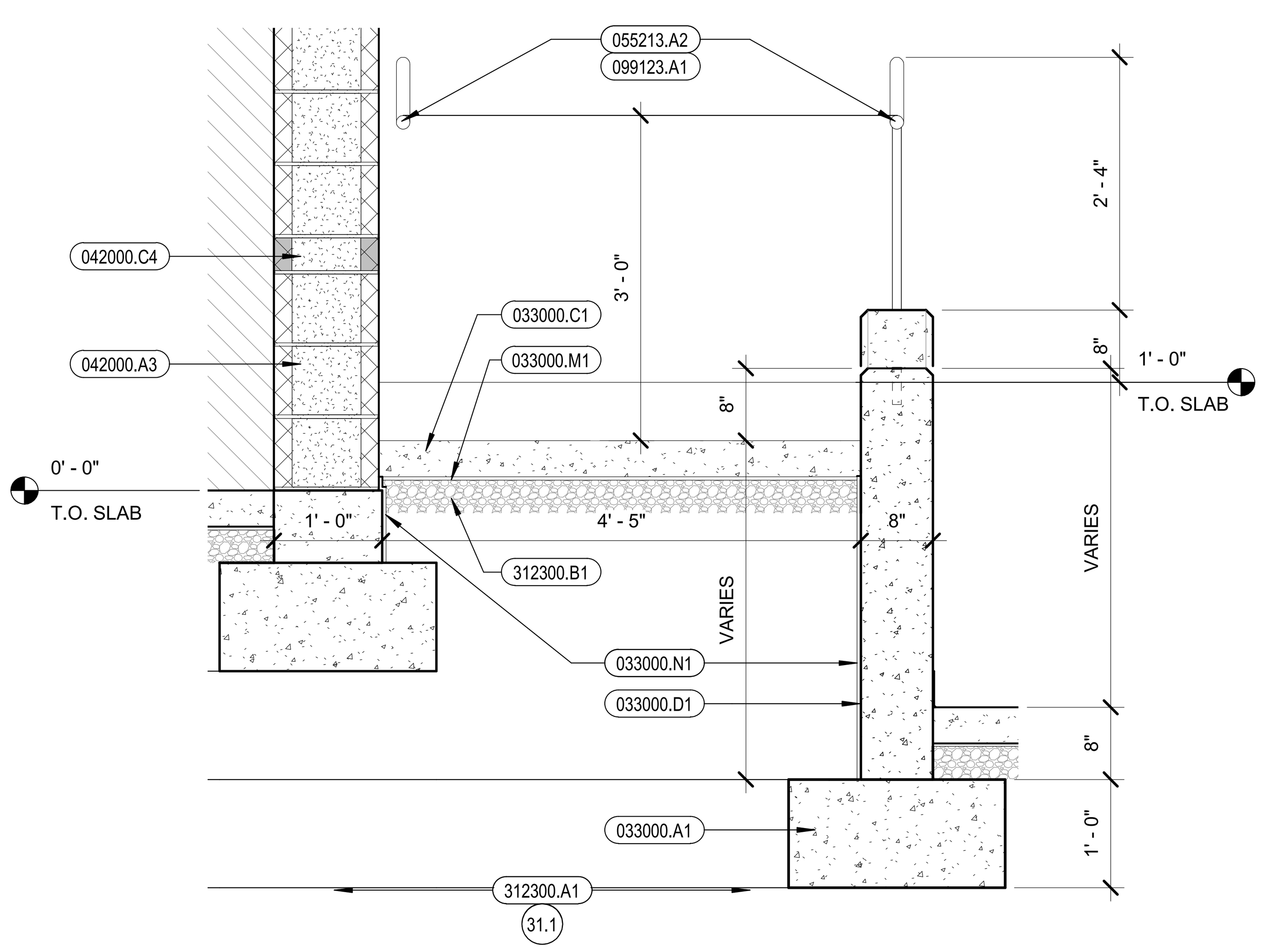
6 ENLARGED FLOOR PLAN - STAGE STAIRS 2
1/4" = 1'-0"



7 RAMP SECTION
3/4" = 1'-0"



8 RAMP SECTION
3/4" = 1'-0"



9 RAMP SECTION
3/4" = 1'-0"

General Notes

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2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
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8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

3.01	3/4" CHAMFER
5.01	CORE, SET IN EPOXY
31.1	SEE STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL FILL REQUIREMENTS.

Keyed Notes

033000.A1	CONCRETE FOOTING
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.D1	CONCRETE WALL
033000.M1	VAPOR RETARDER
033000.N1	BITUMINOUS DAMPPROOFING, (2) COATS
042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.C4	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16
055213.A2	STEEL PIPE HANDRAIL, MIN. OUTSIDE DIA. 1 1/2"
099123.A1	PAINT-INTERIOR
312300.A1	COMPACTED IMPORTED STRUCTURAL FILL
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

LKV ARCHITECTS
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Boise, Idaho 83706
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#	Description	Date
Revisions		

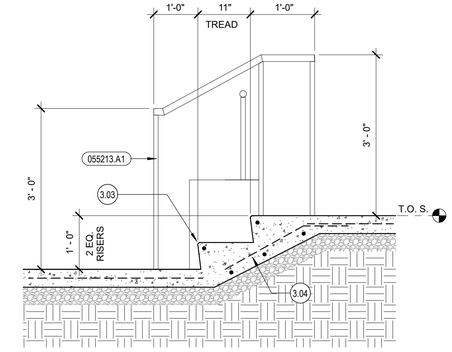
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

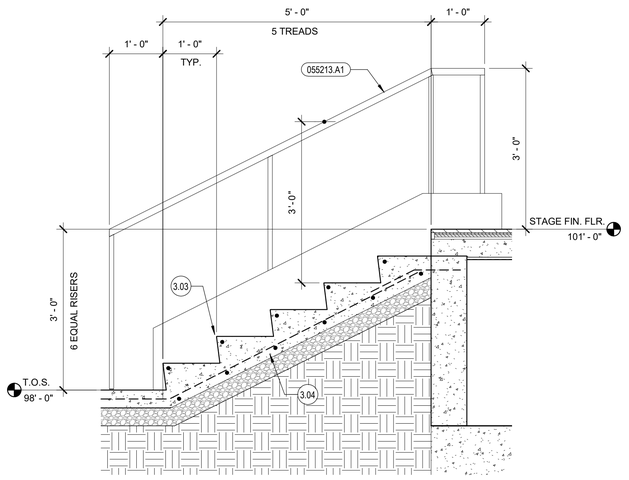
DRAWN BY: Author
CHECKED BY: Checker

BID SET

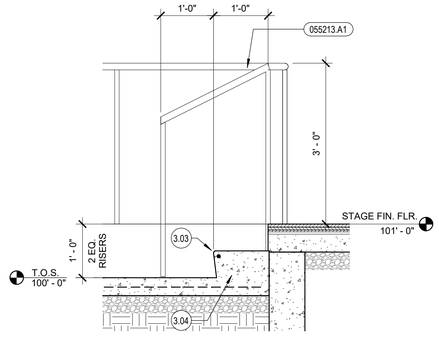
DRAWING NO.:
A3.15
ENLARGED FLOOR PLANS - STAIRS



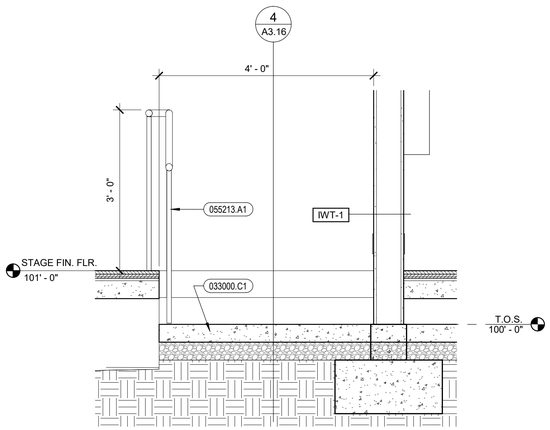
1 CAFETERIA STAIR SECTION
3/4" = 1'-0"



3 STAGE STAIRS
3/4" = 1'-0"



4 STAGE STAIRS
3/4" = 1'-0"



5 Detail 7
3/4" = 1'-0"

General Notes

Reference Notes

3.03	3/4" RADIUS NOSING
3.04	SEE STRUCTURAL FOR CONCRETE STAIR CONSTRUCTION.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
055213.A1	STEEL PIPE / TUBE GUARDRAIL, MIN. OUTSIDE DIA. 1 1/2"

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

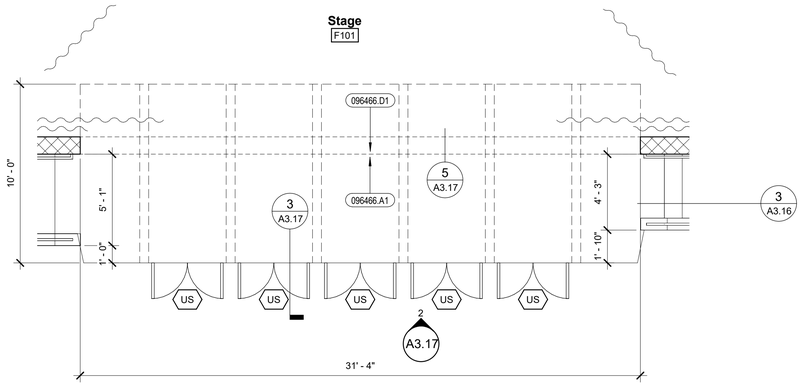
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

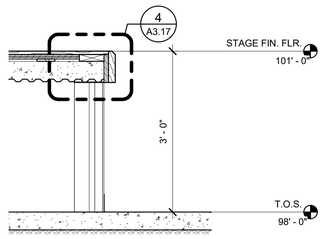
BID SET

DRAWING NO.:

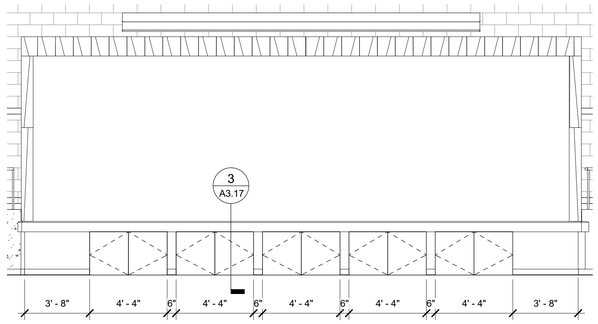
A3.16
STAIR SECTIONS



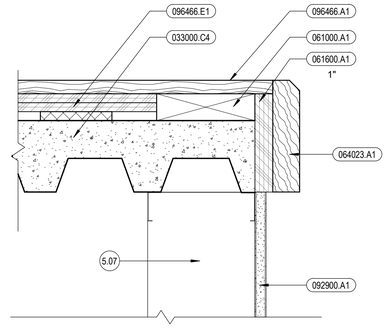
1 ENLARGED FLOOR PLAN - STAGE
1/4" = 1'-0"



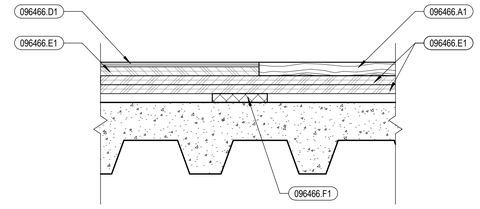
3 STAGE EDGE
3/4" = 1'-0"



2 STAGE - FRONT
1/4" = 1'-0"



4 STAGE FRONT DETAIL
3" = 1'-0"



5 STAGE FLOOR TRANSITION
3" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FINISH, UNLESS NOTED OTHERWISE.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A3.8 FOR TYPICAL CLASSROOMS, TACKBOARD, AND MARKERBOARD SIZES AND LAYOUTS.
5. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
6. SEE SHEET A4.2 FOR DOOR SCHEDULE AND DOOR TYPES AND SHEETS A4.2, A4.3, AND A4.4 FOR WINDOWS AND FRAME TYPES.
7. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
8. FURNISH AND INSTALL WINDOW BLINDS.
9. SEE SHEET A1.2 FOR SPECIALTY MOUNTING HEIGHTS.
10. SEE SHEET A8.1 FOR WALL TYPES.

Reference Notes

5.07	STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.

Keyed Notes

033000.C4	CONCRETE SLAB ON DECK.
061000.A1	DIMENSION LUMBER
061600.A1	SHEATHING, MISC. (TYPE AND THICKNESS INDICATED)
064023.A1	WOOD TRIM / MOLDING
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
096466.A1	HARDWOOD FLOORING, 3/4"
096466.D1	PLYWOOD FLOORING, 1/4"
096466.E1	1/2" PLYWOOD (T&G)
096466.F1	RESILIENT PAD

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
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208.336.3443

REGISTERED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

A3.17
ENLARGED FLOOR PLAN – STAGE

Room Finish Schedule - Area A

		Floor		South		West		North		East		Ceiling			
Room No.	Room Name	Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Height	Remarks
A100	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
A101	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
A101a	Foyer	PC	RB	GB/AGB	PNT	CWT	FACT	GB/AGB	PNT	CWT	FACT	SAP	FACT		6, 5
A102	4th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A103	4th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A104	4th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A105	4th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A106	3rd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A107	Jan.	SC	RB	GB	EP	GB	EP	GB	EP	GB	EP	GB	PNT		3
A107a	Data	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
A108	Girls	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
A109	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
A109a	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
A109b	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
A110	Boys	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
A111	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PNT		
A112	3rd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A113	3rd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A114	3rd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A115	2nd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A116	2nd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A117	2nd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A118	2nd Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A119	Computer Lab	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A120	Couns.	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A121	E.L.	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A122	Reading	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
A123	Title One	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		

Room Finish Schedule - Area B

		Floor		South		West		North		East		Ceiling			
Room No.	Room Name	Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Height	Remarks
B100	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
B101	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
B101a	Foyer	PC	RB	CWT	FACT	GB/AGB	PNT	CWT	FACT	GB/AGB	PNT	SAP	FACT		6, 5
B106	6th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B107	6th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B108	6th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B109	6th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B110	Jan.	SC	RB	GB	EP	GB	EP	GB	EP	GB	EP	GB	PNT		3
B111	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
B111a	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
B111b	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
B112	Girls	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
B113	Boys	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
B114	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PNT		
B115	5th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B116	5th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B117	5th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B118	Storage	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B119	5th Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
B120a	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
B121	Talented and Gifted	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		

Room Finish Schedule - Area C

		Floor		South		West		North		East		Ceiling			
Room No.	Room Name	Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Height	Remarks
C100	Security Vest.	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
C101	Foyer	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6, 5
C102	Reception	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C102a	Corr.	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
C102b	Corr.	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
C103	Conference	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C104	Nurse	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C104a	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	SAP	FACT		
C105	Workroom	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C105a	St.	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C106	St.	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C107	Principal	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C108	Office	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C109	T.O.	LVT	RB	AGB	PNT	AGB	PNT	AGB	PNT	AGB	PNT	GB	PNT		
C110	Office	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C111	T.O.	LVT	RB	AGB	PNT	AGB	PNT	AGB	PNT	AGB	PNT	GB	PNT		
C112	T.O.	LVT	RB	AGB	PNT	AGB	PNT	AGB	PNT	AGB	PNT	GB	PNT		
C113	Faculty	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C114	M.	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
C115	W.	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
C116	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
C117	Storage	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C118	Library	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C118a	Workroom	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C119	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
C120	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
C121	Resource	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C122	Resource	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C123	Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C123a	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PNT		
C123b	Sensory	FP	RB	AGB	PNT	AGB	PNT	AGB	PNT	AGB	PNT	GB	PNT		11
C124	I.T.	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
C125	Storage	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C126	W/D	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
C127	Sensory	SC	RB	AGB	PNT	AGB	PNT	AGB	PNT	AGB	PNT	GB	PNT		

Room Finish Schedule - Area D

		Floor		South		West		North		East		Ceiling			
Room No.	Room Name	Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Height	Remarks
D100	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
D101	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
D101a	Foyer	PC	RB	CWT	FACT	GB/AGB	PNT	CWT	PNT	GB/AGB	PNT	SAP	FACT		6, 5
D102	Kindergarten Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D103	Kindergarten Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D104	Kindergarten Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D105	Kindergarten Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D106	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PNT		
D107	Vestibule	ECT	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
D107a	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
D107b	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
D108	Boys	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
D109	Girls	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
D110	Jan.	SC	RB	GB	EP	GB	EP	GB	EP	GB	EP	SAP	FACT		3
D111	1st Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D112	1st Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D113	1st Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D114	1st Grade Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D115	Extended Resource	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D115a	Storage	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D115a	T.O.	SC	RB	AGB	PNT	AGB	PNT	AGB	PNT	AGB	PNT	SAP	FACT		
D115b	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PNT		
D116	P.T. / O.T.	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
D117	Title One	CT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		

Room Finish Schedule - Area E

		Floor		South		West		North		East		Ceiling			
Room No.	Room Name	Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Height	Remarks
E100	Gymnasium	HWD	VRB	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	OTS	PNT		4, 9
E100a	P.E. Storage	CT	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
E101	Corridor	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	SAP	FACT		6
E102	Storage	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		3, 7
E103	P.E. Office	CT	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
E104	Cust. Office	CT	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
E105	Receiving	SC	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
E106	Electrical	SC	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
E107	Kitchen	RVF	RVF	GB	FRP	GB	FRP	GB	FRP	GB	FRP	SAP	FACT		1, 2
E107a	Office	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
E107b	Dishwash	QT	QT	GB	FRP	GB	FRP	CMU	FRP	GB	FRP	SAP	FACT		
E108	Toilet	CFT	CFT	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PNT		
E109	Janitor	SC	RB	GB	EP	GB	EP	GB	EP	GB	EP	GB	PNT		3
E110	Storage	QT	QT	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
E111	Mechanical	SC	RB	GB	PNT	GB	PNT	CMU	PNT	GB	PNT	OTS	PNT		
E112	W.	CFT	CFT	CWT	FACT	CWT	FACT	CWT	FACT	CWT	FACT	GB	PNT		
E113	M.	CFT	CFT	CWT	FACT	CWT	FACT	CMU	PNT	GB	PNT	GB	PNT		
E114	Chase	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		
E115	Serving	LVT	RB	GB	PNT	GB	PNT	CMU	PNT	GB	PNT	GB	PNT		
E116	I.T.	SC	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	OTS	PNT		

Room Finish Schedule - Area F

		Floor		South		West		North		East		Ceiling			
Room No.	Room Name	Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Height	Remarks
F100	Cafetorium	PC	RB	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	OTS	PNT		4, 5
F100a	Storage	PC	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
F101	Stage	HWD/PWD	RB	CMU	PNT	GB	PNT	GB	PNT	GB	PNT	GB	PNT		9, 10
F101a	Storage	PWD	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
F102	Hallway	PC	RB	GB/AGB	PNT	GB/AGB	PNT	GB/AGB	PNT	CMU	PNT	SAP	FACT		6
F103	Music Classroom	CT/LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		
F103a	Storage	LVT	RB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	SAP	FACT		

General Notes

1. SEE SPECIFICATIONS FOR ALLOWABLE NUMBER OF COLORS AND PATTERNS PER ROOM AND / OR MATERIAL.
2. AT ALL EXPOSED STRUCTURE, PAINT ROOF JOISTS, DUCTWORK, AND INCIDENTAL PIPING AND CONDUIT. ROOF JOISTS AND DUCTWORK MAY BE PAINTED DIFFERENT COLORS.
3. REFER TO REFLECTED CEILING PLAN, AND CEILING TYPES ON SHEET A8.8.

Finish Schedule Remarks

1. WASHABLE, VINYL FACED, CEILING PANELS.
2. NON-COMBUSTIBLE CEILING PANELS AROUND HOOD.
3. 4'-0"x4'-0" FRP PANEL BEHIND MOP SINK. (2) WALLS.
4. OPEN CEILING STRUCTURE. EXPOSED DUCTWORK AND METAL JOIST. DECKING TO BE PAINTED SEPARATE COLORS.
5. WALL TILE SYSTEM AT DRINKING FOUNTAINS. SEE SHEET A9.1.
6. ABUSE RESISTANT GYPSUM BOARD TO 4'-0" A.F.F.
7. FRAME OPENING AT LADDER LOCATION.
8. IMPACT RESISTANT CEILING PANELS.
9. WOOD FLOORING IN GYM. SEE SHEET A8.5.
10. PAINT PLYWOOD FLOORING.
11. REFER TO SPECIFICATION 116600 FOR SAFETY WALL AND FLOOR PADS. INSTALLED FLOOR TO CEILING ALL WALLS AND FLOOR.

Finish Schedule Abbreviations

FLOORS

CT	CARPET TILE
ECT	ENTRY CARPET TILE
FP	SAFETY FLOOR PADS
HWD	HARDWOOD ATHLETIC FLOORING. 096466.A1
LVT	LUXURY VINYL TILE
LN	LINOLEUM
PC	POLISHED CONCRETE
PFT	PORCELAIN FLOOR TILE
PWD	PLYWOOD FLOORING. 096466.D1
RC	ROLLED CARPET
RVF	RESILIENT SHEET FLOORING
RAF	RESILIENT ATHLETIC FLOORING
RST	RESILIENT STAIR TREADS, RISERS AND BASE
SC	SEALED CONCRETE
EX	EXISTING

BASE

LN	INTEGRAL COVED BASE FLOORING, 6"
PFT	PORCELAIN FLOOR TILE, 6"
RB	COVED RUBBER BASE, 4"
RVF	INTEGRAL COVED BASE FLOORING, 6"
VRB	VENTED RUBBER BASE, 4"

WALLS

AGB	ABUSE RESISTANT GYPSUM BOARD (FULL HEIGHT)
CMU	CONCRETE MASONRY UNITS
CWT	CERAMIC WALL TILE (SEE INTERIOR ELEVATIONS)
GB	GYPSUM BOARD
EX	EXISTING

CEILINGS

ES	EXPOSED STRUCTURE
GB	GYPSUM BOARD
SAP	SUSPENDED ACOUSTICAL PANEL
EX	EXISTING

FINISHES

EP	EPOXY PAINT
FACT	FACTORY
FRP	FIBERGLASS REINFORCED PANELS
PNT	PAINT

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LICENSED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:

A4.1

ROOM FINISH SCHEDULE

Door Schedule - Area 'A'

Mark	Door					Frame			Rating	Door Schedule Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish		
A100a	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
A100b	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
A102a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
A102b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
A103a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
A103b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
A104a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
A104b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
A105a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A105b	3' - 0"	7' - 0"	A1	FW	STN	S4	STL	PNT		
A106a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A106b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A107	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A107a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A109a	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A109b	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A109c	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
A109d	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
A111	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A112a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A112b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A113a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A113b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A114a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A114b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A115a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A115b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A116a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A116b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A117a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A117b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A118a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
A118b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
A119	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
A120	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
A121	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
A122	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
A123	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		

Door Schedule - Area 'B'

Mark	Door					Frame			Rating	Door Schedule Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish		
B100a	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
B100b	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
B101	8' - 0"	7' - 0"	A2	STL	PNT	S3	STL	PNT	1 1/2 HR	5, 10
B106a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B106b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B107a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B107b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B108a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B108b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B109a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B109b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B110	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B111a	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B111b	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B111c	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
B111d	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
B114	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B115a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B115b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B116a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B116b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B117a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B117b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B118	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B119a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
B119b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
B120a	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
B120b	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
B121	3' - 0"	7' - 0"	B1	STL	PNT	S1	STL	PNT	1 1/2 HR	10

Door Schedule - Area 'C'

Mark	Door					Frame			Rating	Door Schedule Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish		
C100a	6' - 0"	7' - 0"	D2	ALUM	ANOD	A1	ALUM	ANOD		1, 2
C100b	6' - 0"	7' - 0"	D2	ALUM	ANOD	A11	ALUM	ANOD		1, 2
C102	3' - 0"	7' - 0"	D1	FW	STN	S5	STL	PNT		
C102b	4' - 0"	3' - 4"	CCD2	--	--	--	--	--		
C103	3' - 0"	7' - 0"	C1	FW	STN	S1	STL	PNT		
C104a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C104b	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C104c	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C105a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C105b	3' - 0"	7' - 0"	C1	FW	STN	S1	STL	PNT		
C105c	3' - 0"	7' - 0"	C1	FW	STN	S1	STL	PNT		
C106	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C107	3' - 0"	7' - 0"	C1	FW	STN	S1	STL	PNT		
C108	3' - 0"	7' - 0"	C1	FW	STN	S6	STL	PNT		
C109	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C110	3' - 0"	7' - 0"	C1	FW	STN	S1	STL	PNT		
C111	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C112	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C112a	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C112b	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C113	3' - 0"	7' - 0"	C1	FW	STN	S1	STL	PNT		
C114	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C115	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C117	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C118a	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C118b	3' - 0"	7' - 0"	D1	FW	STN	S1	STL	PNT		
C118c	6' - 0"	7' - 0"	D2	FW	STN	S1	STL	PNT		
C119	6' - 0"	7' - 0"	C2	STL	PNT	S1	STL	PNT		
C120	6' - 0"	7' - 0"	C2	STL	PNT	S1	STL	PNT		
C121	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C122	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C123	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
C123a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C123b	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT		8
C124	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C125	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C126	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
C127	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		

Door Schedule - Area 'D'

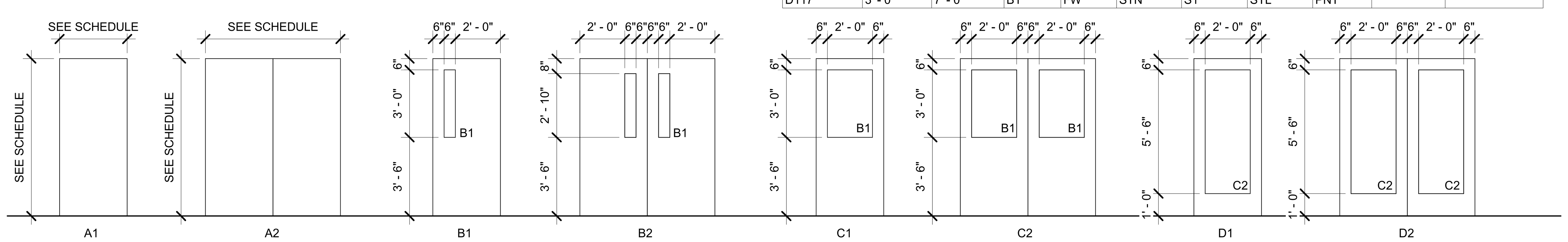
Mark	Door					Frame			Rating	Door Schedule Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish		
D100a	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
D100b	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
D100b	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
D101	8' - 0"	7' - 0"	A2	STL	PNT	S3	STL	PNT	1 1/2 HR	5, 10
D102a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
D102b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
D103a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
D103b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
D104a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
D104b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
D105a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		7
D105b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		7
D106	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D107a	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D107b	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D107c	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
D107d	6' - 0"	7' - 0"	D2	ALUM	ANOD	A2	ALUM	ANOD		1
D110	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D111	2' - 8"	3' - 4"	CCD4	--	--	--	--	--		
D111a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
D111b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D112a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
D112b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D113a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
D113b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D114a	3' - 0"	7' - 0"	B1	FW	STN	S4	STL	PNT		
D114b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D115	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
D115a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D115b	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
D115c	3' - 0"	7' - 0"	D1	ALUM	ANOD	A5	ALUM	ANOD		
D116	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
D117	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		

Door Schedule - Area 'E'

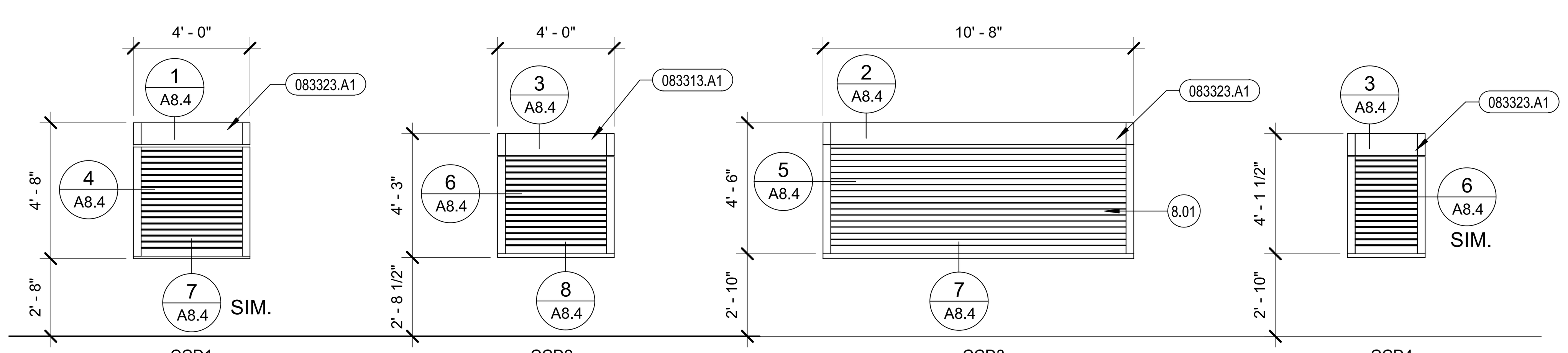
Mark	Door					Frame			Rating	Door Schedule Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish		
E100	6' - 0"	7' - 0"	B2	STL	PNT	S3	STL	PNT	1 1/2 HR	10
E100a	3' - 0"	7' - 0"	B11	STL	PNT	S2	STL	PNT	1 1/2 HR	10
E100b	3' - 0"	7' - 0"	A1	STL	PNT	S2	STL	PNT		
E100c	3' - 0"	7' - 0"	A1	STL	PNT	S2	STL	PNT		
E101	6' - 0"	7' - 0"	B2	STL	PNT	S10	STL	PNT		1
E101a	6' - 0"	7' - 0"	A2	STL	PNT	S1	STL	PNT		
E102	3' - 8"	7' - 0"	A1	FW	STN	S1	STL	PNT		
E103	3' - 0"	7' - 0"	B1	STL	PNT	S1	STL	PNT		
E103a	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT		
E104	3' - 0"	7' - 0"	B1	STL	PNT	S1	STL	PNT		
E105	6' - 0"	7' - 0"	A2	STL	PNT	S1	STL	PNT		
E106	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT	3/4 HR	10
E106a	3' - 0"	7' - 0"	A1	FW	STN	S2	STL	PNT	3/4 HR	10
E107a	4' - 0"	7' - 0"	B1	STL	PNT	S3	STL	PNT		
E107b	6' - 0"	7' - 0"	B2	STL	PNT	S1	STL	PNT		1, 4, 6
E107c	4' - 0"	3' - 9"	CCD1	--	--	--	--	--		
E107d	10' - 8"	3' - 9"	CCD3	--	--	--	--	--		
E107e	10' - 8"	3' - 9"	CCD3	--	--	--	--	--		
E107f	2' - 8"	3' - 4"	CCD4	--	--	--	--	--		
E108	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT		
E109	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT		
E110	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT		
E111	3' - 8"	7' - 0"	A1	STL	PNT	S1	STL	PNT		
E111a	6' - 0"	7' - 0"	A2	STL	PNT	S3	STL	PNT		
E112	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
E113	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
E114	2' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
E116	3' - 0"	7' - 0"	A1	STL	PNT	S1	STL	PNT		

Door Schedule - Area 'F'

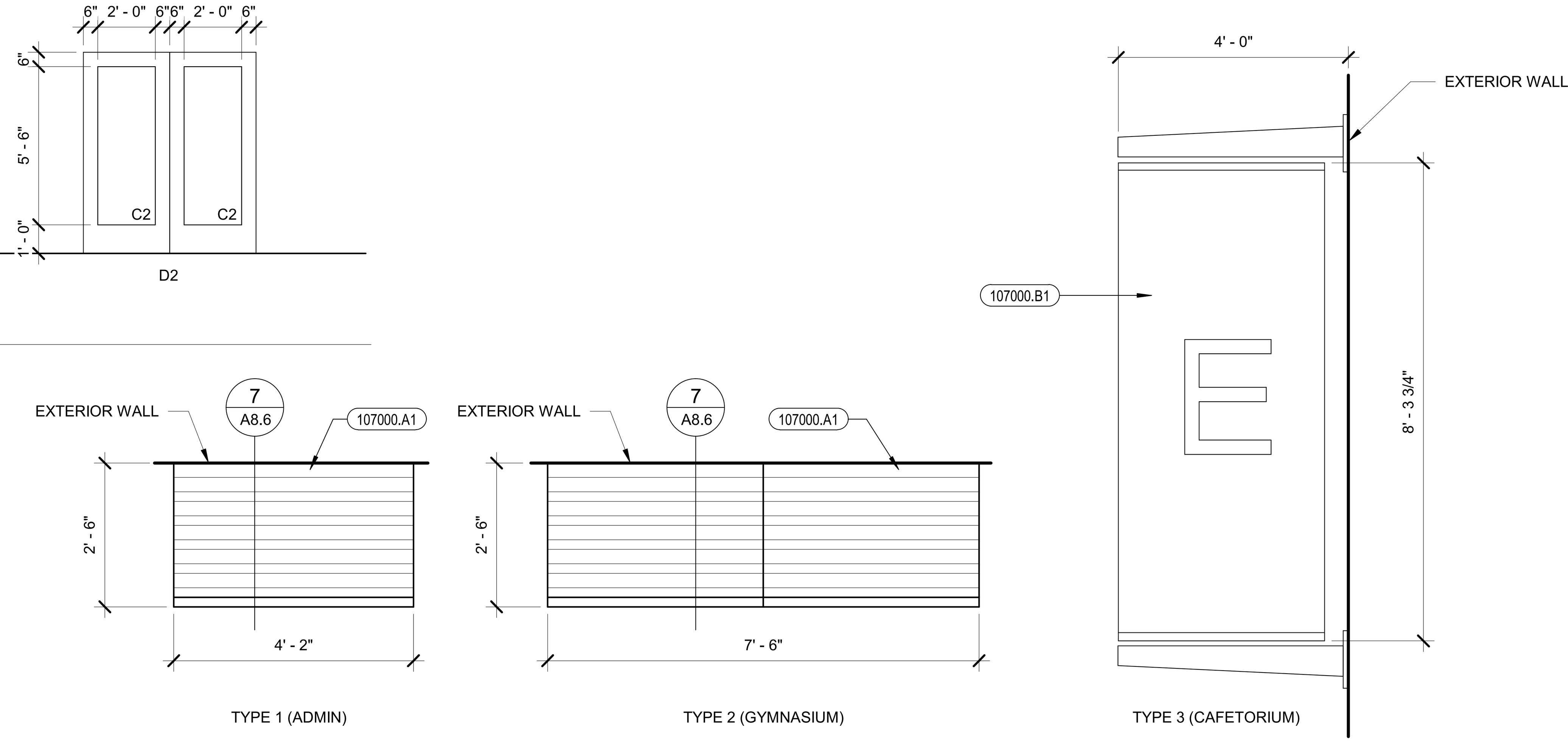
Mark	Door					Frame			Rating	Door Schedule Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish		
F100a	3' - 0"	7' - 0"	A1	STL	PNT	S2	STL	PNT		
F100b	6' - 0"	7' - 0"	C2	FW	STN	S3	STL	PNT		
F100c	6' - 0"	7' - 0"	C2	FW	STN	S3	STL	PNT		
F100d	3' - 0"	7' - 0"	A1	STL	PNT	S2	STL	PNT		
F100e	3' - 0"	7' - 0"	A1	STL	PNT	S2	STL	PNT		
F101a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		
F101b	3' - 0"	7' - 0"	A1	STL	PNT	S2	STL	PNT		
F102	6' - 0"	7' - 0"	C2	STL	PNT	S1	STL	PNT		
F102a	6' - 0"	7' - 0"	D2	ALUM	ANOD	A9	ALUM	ANOD		1
F103	3' - 0"	7' - 0"	B1	FW	STN	S1	STL	PNT		
F103a	3' - 0"	7' - 0"	A1	FW	STN	S1	STL	PNT		



Door Types
1/4" = 1'-0"



1 Door Types - Coiling Counter Doors
1/4" = 1'-0"



2 SUN SHADE TYPES
1/2" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CONCRETE FOUNDATION WALL / CMU VENEER UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE DESIGNATION (— — —)IS INDICATED.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE (— — —) DESIGNATION IS INDICATED.
3. SEE SHEET A1.2 - A1.4 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
5. SEE SHEET A4.2, A4.3, A4.4 FOR DOOR SCHEDULE AND DOOR AND WINDOW FRAME TYPES.
6. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
7. FURNISH AND INSTALL WINDOW BLINDS AT SPECIFIED LOCATIONS, SEE SPECIFICATION 122113.
8. SEE SHEET A1.3 FOR SPECIALTY ITEM MOUNTING HEIGHTS.
9. SEE SHEETS A8.1 FOR EXTERIOR AND INTERIOR WALL TYPES: EWT-#, IWT-#.

Reference Notes

8.01 PERFORATED SLATS.

Keyed Notes

083313.A1 COILING COUNTER DOOR
083323.A1 OVERHEAD COILING DOOR
107000.A1 METAL SUNSHADE ASSEMBLY
107000.B1 SUNSHADE ASSEMBLY, VERTICAL.

Door Schedule Remarks

1. ACCESS CONTROL. REFER TO DOOR HARDWARE SPECIFICATION 087100 AND ELECTRICAL DRAWINGS FOR REQUIRED DOOR HARDWARE SYSTEM.
2. ADA PUSH PLATE ACTUATORS. REFER TO DOOR HARDWARE SPECIFICATION SECTION 087100.
3. DOOR TO FIT ABOVE RAISED THRESHOLD. SEE SECTION.
4. PEEP HOLE / DOOR BELL.
5. MAG. HOLD.
6. DOORBELL.
7. PART OF ALTERNATE BID.
8. PUSH BUTTON HOLD.
9. ROOF ACCESS. SEE DOOR JAMB DETAILS 8/A6.13 & 9/A8.7.
10. FIRE RATED DOOR.

Door Schedule Abbreviations

ALUM ALUMINUM
ANOD ANODIZED
FACT FACTORY
FW FLUSH WOOD
PNT PAINT
STL STEEL
STN STAIN

Legend - Glass Types

A1 1/4" FLOAT GLASS
B1 1/4" TEMPERED SAFETY GLASS
C1 1" TINTED INSULATED GLASS, NON-TEMPERED
C2 1" TINTED INSULATED GLASS, TEMPERED

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

Revisions
#	Description	Date

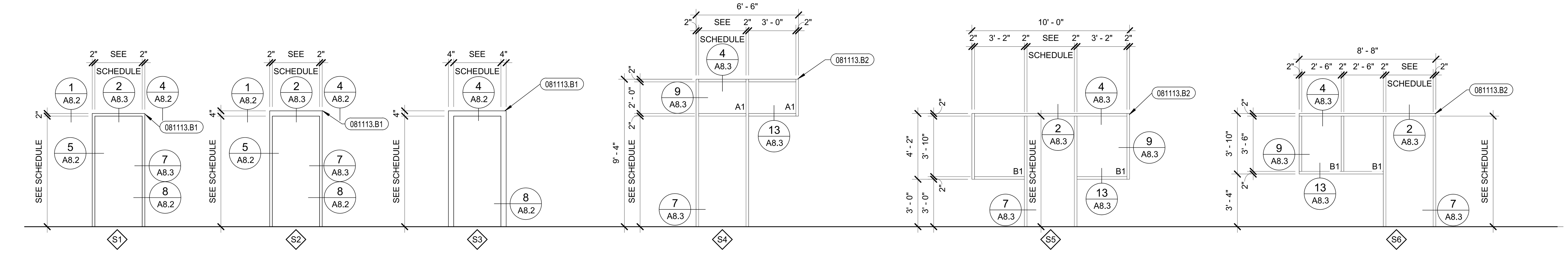
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

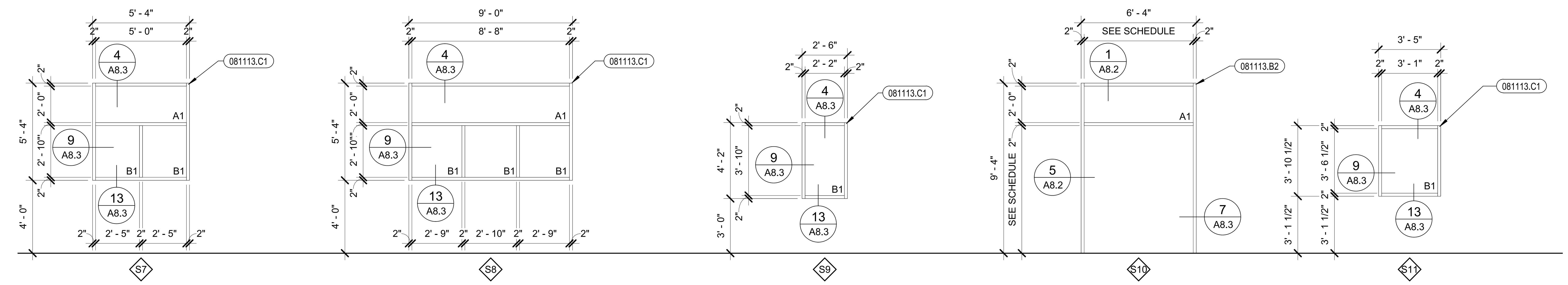
DRAWN BY: KB
CHECKED BY: BT

BID SET

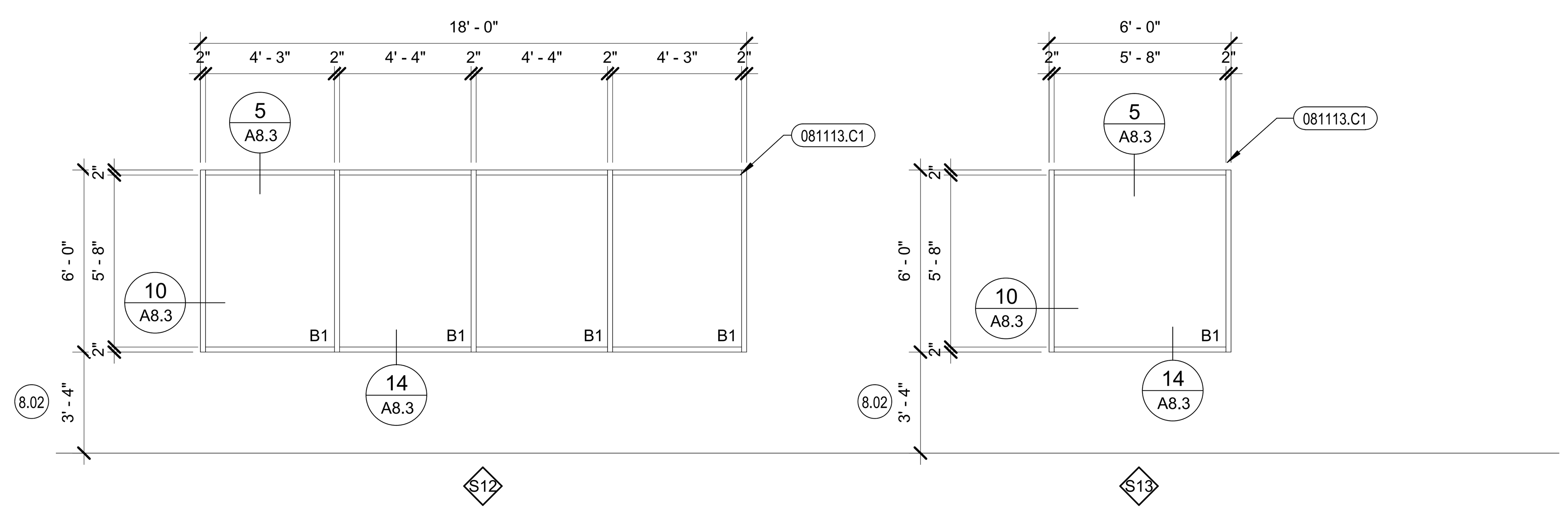
DRAWING NO.:
A4.2
DOOR SCHEDULE / DOOR TYPES



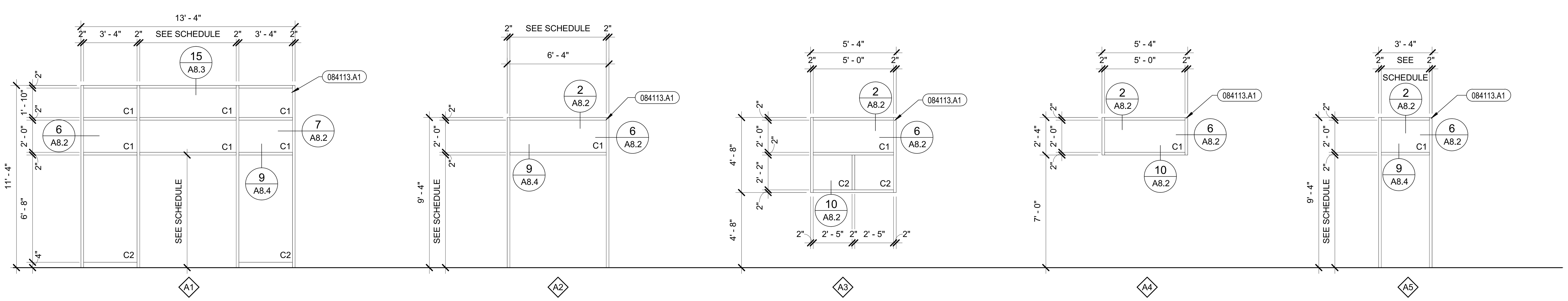
1 FRAME TYPES - STEEL
1/4" = 1'-0"



2 FRAME TYPES - STEEL
1/4" = 1'-0"



5 FRAME TYPES - STEEL
1/4" = 1'-0"



3 FRAME TYPES - ALUM
1/4" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CONCRETE FOUNDATION WALL / CMU VENEEER UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE DESIGNATION (— — —) IS INDICATED.
2. INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE (— — —) DESIGNATION IS INDICATED.
3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
5. SEE SHEET A4.2 AND A4.3 FOR DOOR SCHEDULE AND DOOR AND WINDOW FRAME TYPES.
6. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
7. FURNISH AND INSTALL WINDOW BLINDS. SEE SPECIFICATION 122113.
8. SEE SHEET A1.2 FOR SPECIALTY ITEM MOUNTING HEIGHTS.
9. SEE SHEET A8.1 FOR PARTITION TYPES (XX).

Reference Notes

8.02	ELEVATION IS FROM HALLWAY SIDE.

Keyed Notes

081113.B1	HOLLOW METAL DOOR FRAME
081113.B2	HOLLOW METAL DOOR / GLAZING FRAME
081113.C1	HOLLOW METAL GLAZING FRAME
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING

Legend - Glass Types

A1	1/4" FLOAT GLASS
B1	1/4" TEMPERED SAFETY GLASS
C1	1" TINTED INSULATING GLASS, NON TEMPERED
C2	1" TINTED INSULATING GLASS, TEMPERED.

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

Revisions #	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

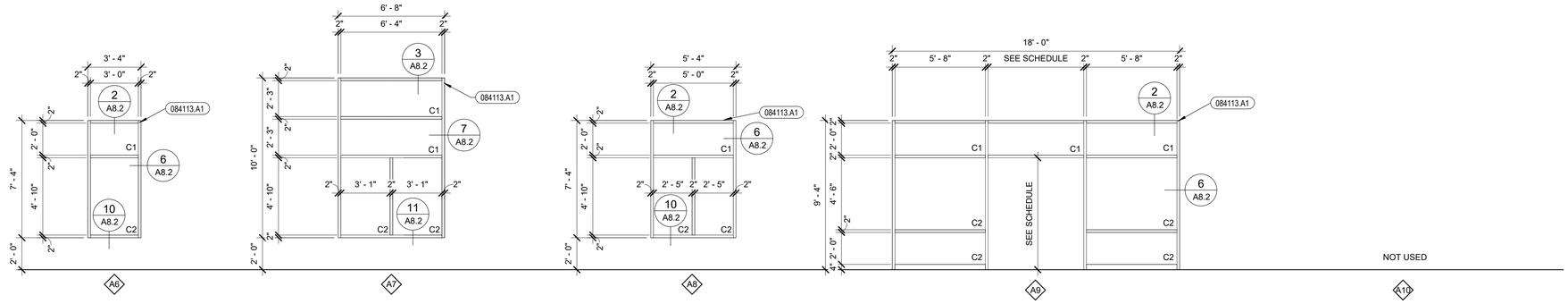
DRAWN BY: KB
CHECKED BY: BT

BID SET

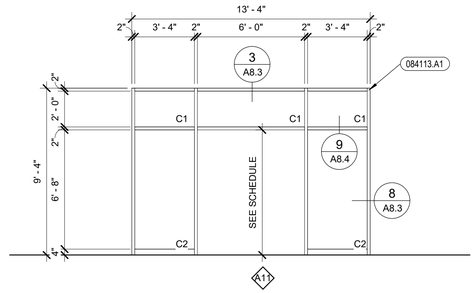
DRAWING NO.:

A4.3

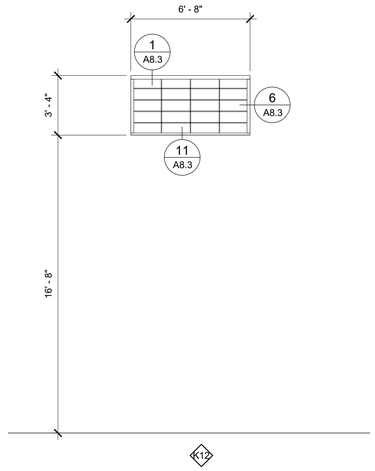
FRAME TYPES



1 FRAME TYPES - ALUM
1/4" = 1'-0"



2 FRAME TYPES - ALUM
1/4" = 1'-0"



3 FRAME TYPES - KALWALL
1/4" = 1'-0"

General Notes

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CONCRETE FOUNDATION WALL / CMU VENEEER UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE DESIGNATION (— – —) IS INDICATED.
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3. SEE SHEET A1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY.
4. SEE SHEET A4.1 FOR ROOM FINISH SCHEDULE.
5. SEE SHEET A4.2 AND A4.3 FOR DOOR SCHEDULE AND DOOR AND WINDOW FRAME TYPES.
6. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS AND AT OTHER LOCATIONS UP TO SPECIFIED LIMITS. SEE SPECIFICATIONS.
7. FURNISH AND INSTALL WINDOW BLINDS. SEE SPECIFICATION 122113.
8. SEE SHEET A1.2 FOR SPECIALTY ITEM MOUNTING HEIGHTS.
9. SEE SHEET A8.1 FOR PARTITION TYPES (XX).

Reference Notes

Keyed Notes

084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING

Legend - Glass Types

A1	1/4" FLOAT GLASS
B1	1/4" TEMPERED SAFETY GLASS
C1	1" TINTED INSULATING GLASS, NON TEMPERED
C2	1" TINTED INSULATING GLASS, TEMPERED.

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REGISTERED ARCHITECT
Brock Trust
02/11/2022
STATE OF IDAHO

Revisions		
#	Description	Date

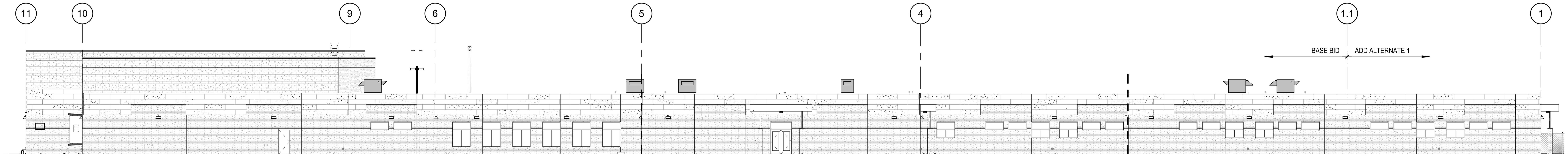
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

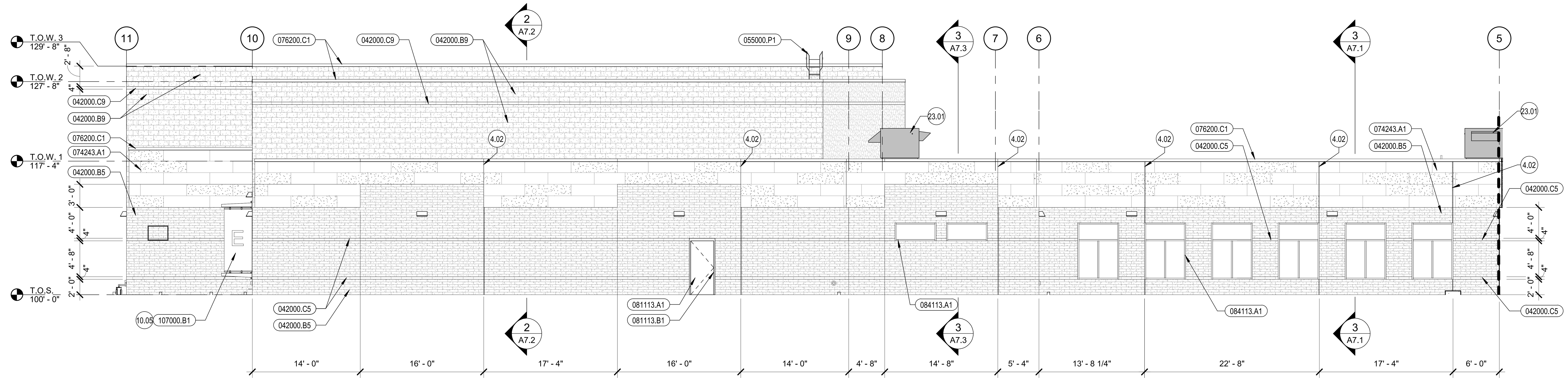
DRAWN BY: KB
CHECKED BY: BT

BID SET

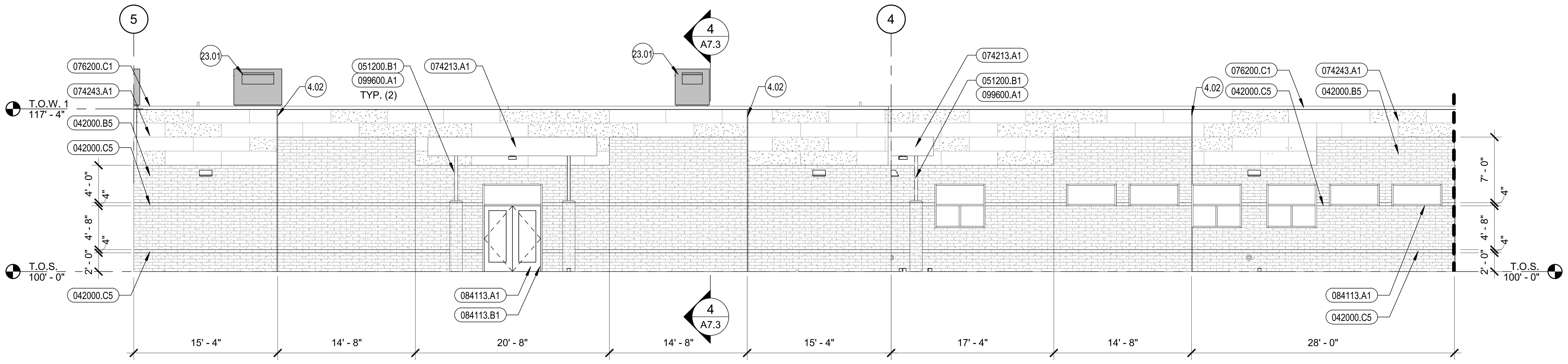
DRAWING NO.:
A4.4
FRAME TYPES



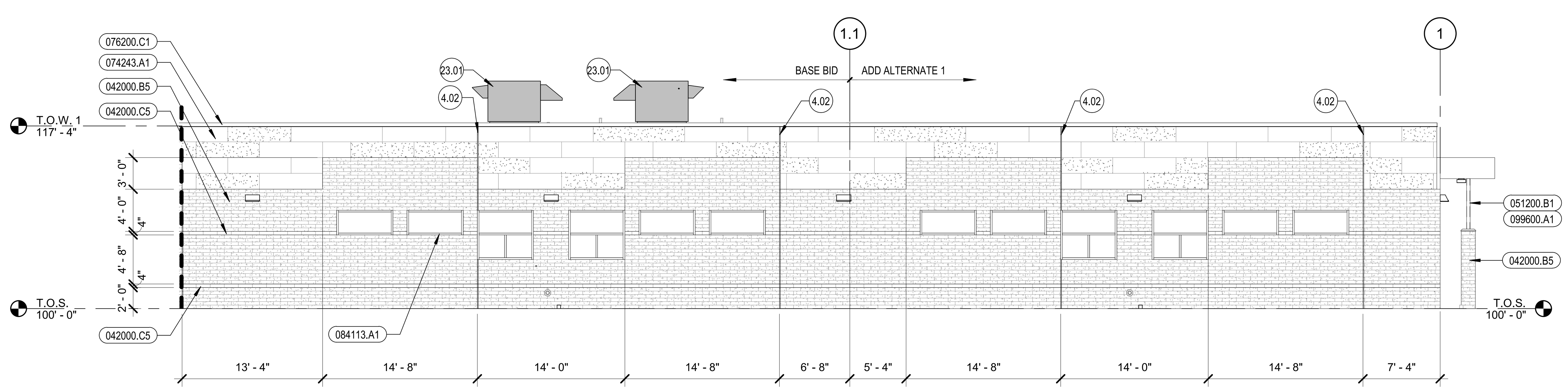
1 NORTH ELEVATION - OVERALL
1/16" = 1'-0"



2 PARTIAL NORTH ELEVATION 1
1/8" = 1'-0"



3 PARTIAL NORTH ELEVATION 2
1/8" = 1'-0"



4 PARTIAL NORTH ELEVATION 3
1/8" = 1'-0"

General Notes

1. SEE FLOOR PLANS, SHEETS A3.1-A3.7, FOR BUILDING AND WALL SECTION REFERENCES.
2. SEE ROOF PLAN, SHEETS A6.1, FOR PARAPET COPING AND ROOF FLASHING DETAIL REFERENCES.
3. SEAL ALL EXTERIOR MASONRY SURFACES WITH WATER REPELLENT SEALER/ ANTI GRAFFITI COATING, SEE SPECIFICATIONS.
4. PRIME AND PAINT IN ENTIRETY ALL ROOF TOP EQUIPMENT, VENTS, AND FLUES EXTENDING ABOVE TOP OF PARAPET ELEVATION. COLOR AS SELECTED BY THE ARCHITECT.
5. SEE FLOOR PLANS AND WALL SECTIONS FOR CMU VENEER AND STRUCTURAL CMU LOCATIONS.
6. AT TOP MASONRY COURSE OF ALL PARAPET LOCATIONS, SOFFIT TIE IN, LIGHTING, ETC. CONCRETE MASONRY UNIT SHALL BE SMOOTH FACE.

Reference Notes

4.02	CONTROL JOINT.
10.05	SUNSHADE TYPE 3. SEE DRAWING SHEET A4.2 FOR SUNSHADE TYPES.
23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
051200.B1	STEEL COLUMN
055000.P1	STEEL ROOF LADDER
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
081113.A1	HOLLOW METAL DOOR
081113.B1	HOLLOW METAL DOOR FRAME
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
099600.A1	HIGH PERFORMANCE COATING
107000.B1	SUNSHADE ASSEMBLY, VERTICAL.

Legend

- 8x16 CMU - SPLIT FACE, COLOR B
- 4x16 CMU - GROUND FACE, COLOR A
- 4x16 CMU - SPLIT FACE, COLOR B
- FIBER CEMENT SIDING PANELS, COLOR A
- FIBER CEMENT SIDING PANELS, COLOR B

LKV ARCHITECTS
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Revisions #	Description	Date

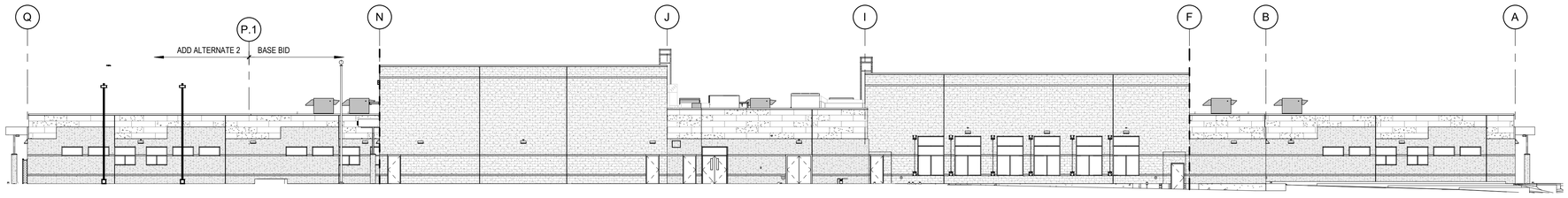
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

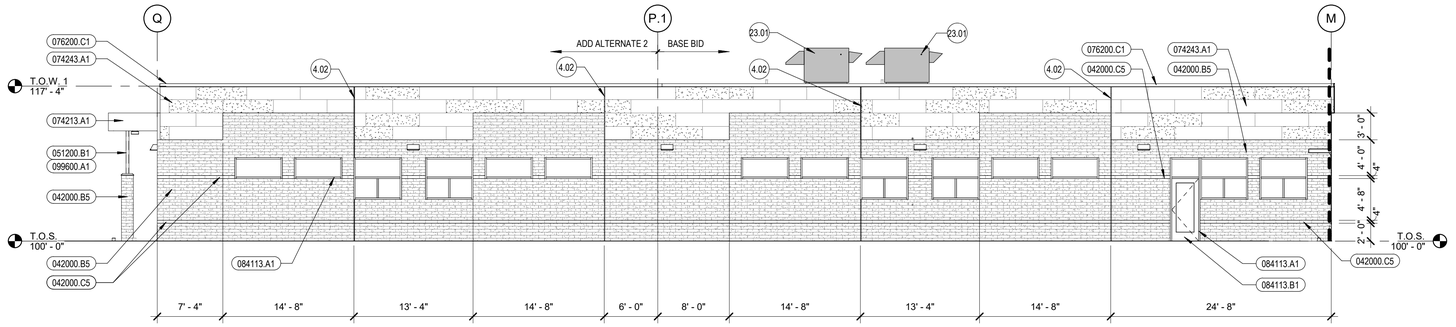
DRAWN BY: KB
CHECKED BY: BT

BID SET

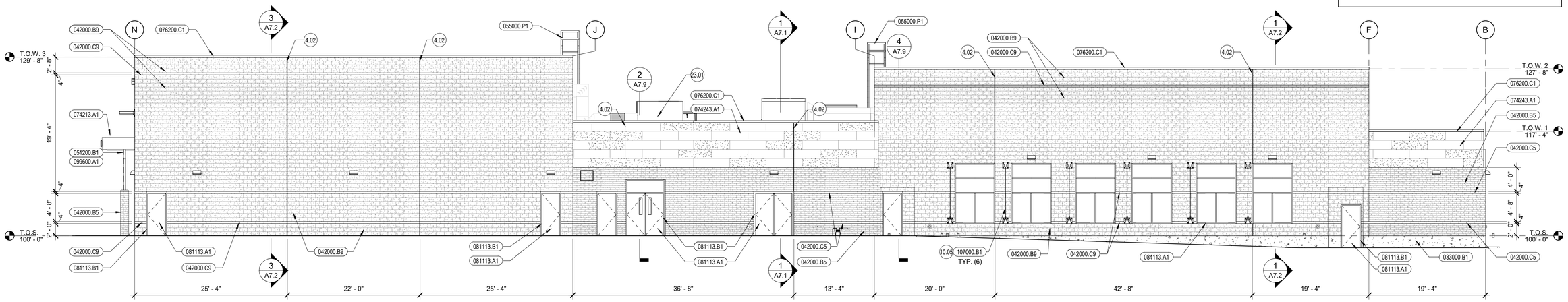
DRAWING NO.:
A5.1
ELEVATIONS



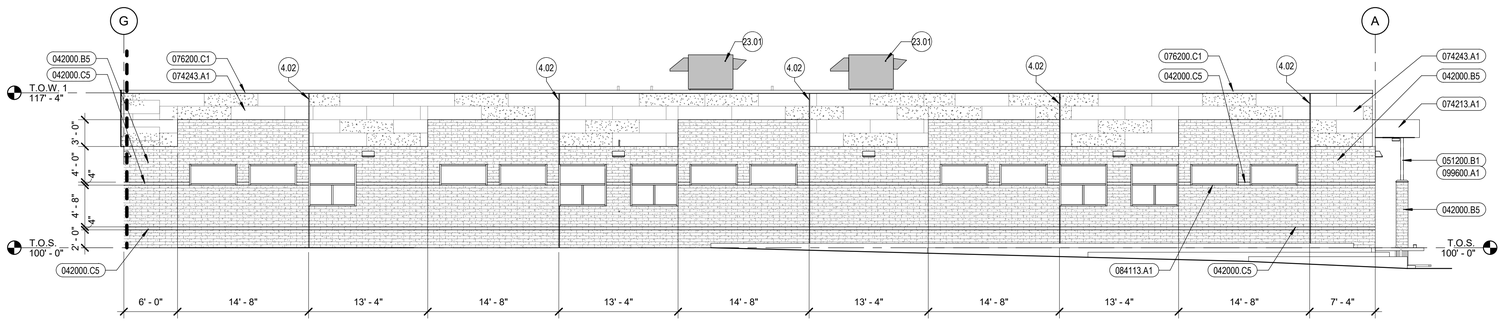
1 EAST ELEVATION - OVERALL
1/16" = 1'-0"



2 PARTIAL EAST ELEVATION 1
1/8" = 1'-0"



3 PARTIAL EAST ELEVATION 2
1/8" = 1'-0"



4 PARTIAL EAST ELEVATION 3
1/8" = 1'-0"

General Notes

1. SEE FLOOR PLANS, SHEETS A3.1-A3.7, FOR BUILDING AND WALL SECTION REFERENCES.
2. SEE ROOF PLAN, SHEETS A6.1, FOR PARAPET COPING AND ROOF FLASHING DETAIL REFERENCES.
3. SEAL ALL EXTERIOR MASONRY SURFACES WITH WATER REPELLENT SEALER/ ANTI GRAFFITI COATING, SEE SPECIFICATIONS.
4. PRIME AND PAINT IN ENTIRETY ALL ROOF TOP EQUIPMENT, VENTS, AND FLUES EXTENDING ABOVE TOP OF PARAPET ELEVATION. COLOR AS SELECTED BY THE ARCHITECT.
5. SEE FLOOR PLANS AND WALL SECTIONS FOR CMU VENEER AND STRUCTURAL CMU LOCATIONS.
6. AT TOP MASONRY COURSE OF ALL PARAPET LOCATIONS, SOFFIT TIE IN, LIGHTING, ETC. CONCRETE MASONRY UNIT SHALL BE SMOOTH FACE.

Legend

- 8x16 CMU - SPLIT FACE, COLOR B
- 4x16 CMU - GROUND FACE, COLOR A
- 4x16 CMU - SPLIT FACE, COLOR B
- FIBER CEMENT SIDING PANELS, COLOR A
- FIBER CEMENT SIDING PANELS, COLOR B

Reference Notes

4.02	CONTROL JOINT.
10.05	SUNSHADE TYPE 3, SEE DRAWING SHEET A4.2 FOR SUNSHADE TYPES.
23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

033000.B1	CONCRETE FOUNDATION WALL
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
051200.B1	STEEL COLUMN
055000.P1	STEEL ROOF LADDER
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
081113.A1	HOLLOW METAL DOOR
081113.B1	HOLLOW METAL DOOR FRAME
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
099600.A1	HIGH PERFORMANCE COATING
107000.B1	SUNSHADE ASSEMBLY, VERTICAL.

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2400 E. Riverwalk Drive
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02/11/2022

#	Revisions Description	Date

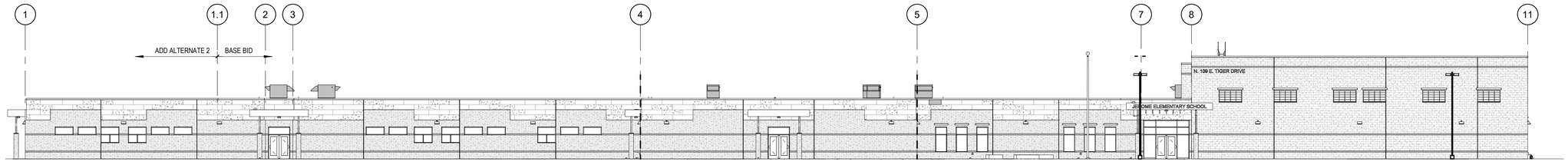
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

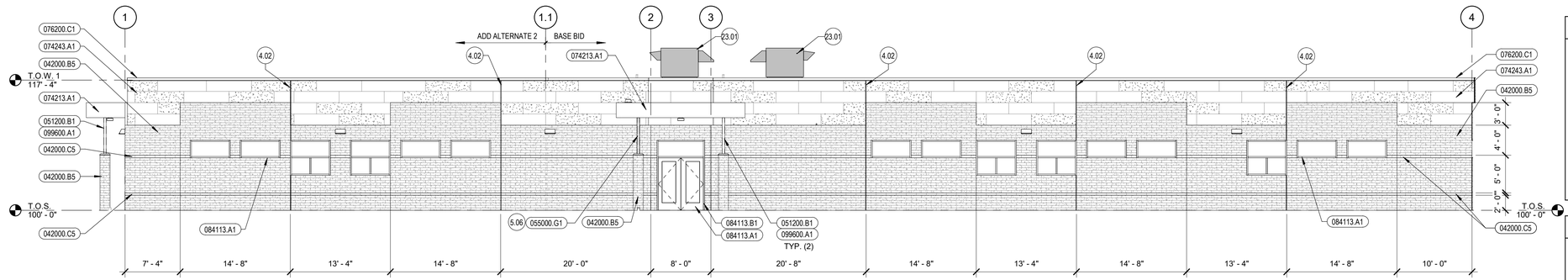
DRAWN BY: KB
CHECKED BY: BT

BID SET

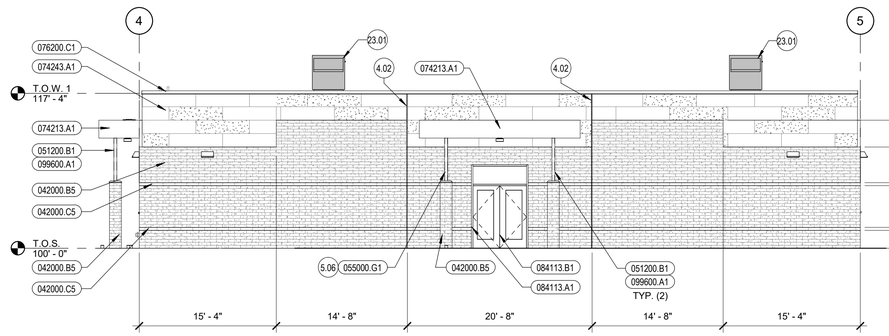
DRAWING NO.:
A5.2
ELEVATIONS



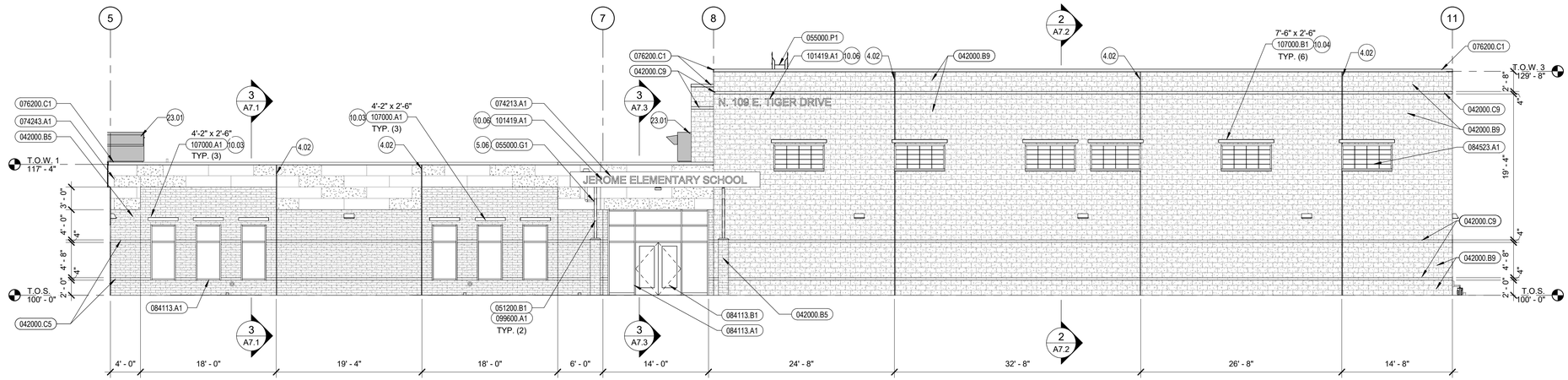
1 SOUTH ELEVATION - OVERALL
1/16" = 1'-0"



2 PARTIAL SOUTH ELEVATION 1
1/8" = 1'-0"



3 PARTIAL SOUTH ELEVATION 2
1/8" = 1'-0"



4 PARTIAL SOUTH ELEVATION 3
1/8" = 1'-0"

General Notes

1. SEE FLOOR PLANS, SHEETS A3.1-A3.7, FOR BUILDING AND WALL SECTION REFERENCES.
2. SEE ROOF PLAN, SHEETS A6.1, FOR PARAPET COPING AND ROOF FLASHING DETAIL REFERENCES.
3. SEAL ALL EXTERIOR MASONRY SURFACES WITH WATER REPELLENT SEALER/ ANTI GRAFFITI COATING, SEE SPECIFICATIONS.
4. PRIME AND PAINT IN ENTIRETY ALL ROOF TOP EQUIPMENT, VENTS, AND FLUES EXTENDING ABOVE TOP OF PARAPET ELEVATION. COLOR AS SELECTED BY THE ARCHITECT.
5. SEE FLOOR PLANS AND WALL SECTIONS FOR CMU VENEER AND STRUCTURAL CMU LOCATIONS.
6. AT TOP MASONRY COURSE OF ALL PARAPET LOCATIONS, SOFFIT TIE IN, LIGHTING, ETC. CONCRETE MASONRY UNIT SHALL BE SMOOTH FACE.

Reference Notes

4.02	CONTROL JOINT.
5.06	BEHIND COLUMN. SEE DETAIL 5/A6.5.
10.03	SUNSHADE TYPE 1. SEE DRAWING SHEET A4.2 FOR SUNSHADE TYPES.
10.04	SUNSHADE TYPE 2. SEE DRAWING SHEET A4.2 FOR SUNSHADE TYPES.
10.06	COORDINATE FINAL TEXT WITH ARCHITECT.
23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
051200.B1	STEEL COLUMN
055000.G1	STEEL TUBE DOWNSPOUT. 4"X4"X1/8" STEEL TUBE. PRIME & PAINT.
055000.P1	STEEL ROOF LADDER
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
084523.A1	FIBERGLASS - SANDWICH PANEL ASSEMBLIES
099600.A1	HIGH PERFORMANCE COATING
101419.A1	EXTERIOR METAL SIGNAGE
107000.A1	METAL SUNSHADE ASSEMBLY
107000.B1	SUNSHADE ASSEMBLY, VERTICAL.

Legend

- 8x16 CMU - SPLIT FACE, COLOR B
- 4x16 CMU - GROUND FACE, COLOR A
- 4x16 CMU - SPLIT FACE, COLOR B
- FIBER CEMENT SIDING PANELS, COLOR A
- FIBER CEMENT SIDING PANELS, COLOR B

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
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LICENSED ARCHITECT
BRAD THURST
STATE OF IDAHO
02/11/2022

#	Revisions Description	Date

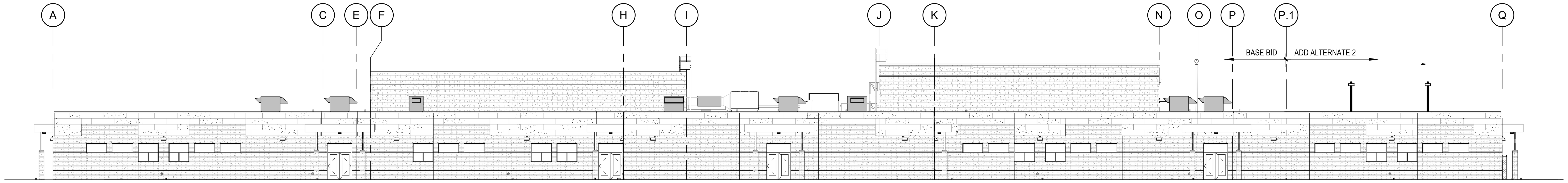
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

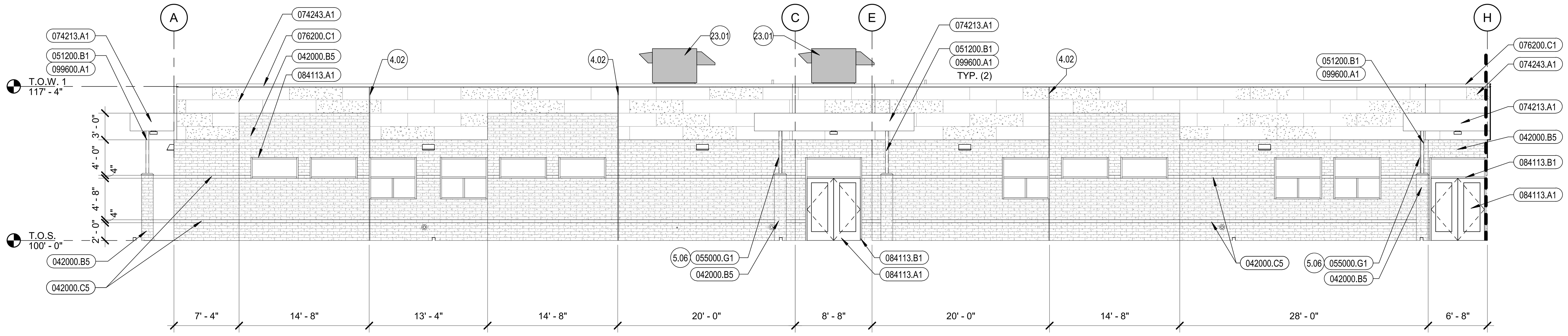
DRAWN BY: KB
CHECKED BY: BT

BID SET

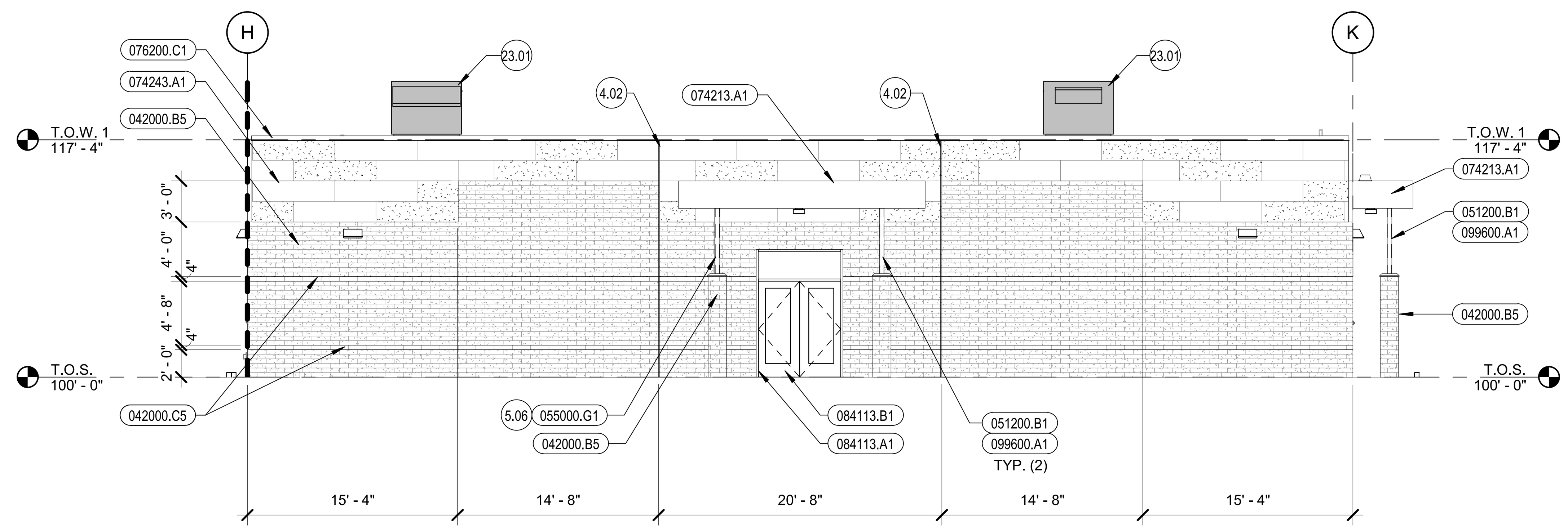
DRAWING NO.:
A5.3
ELEVATIONS



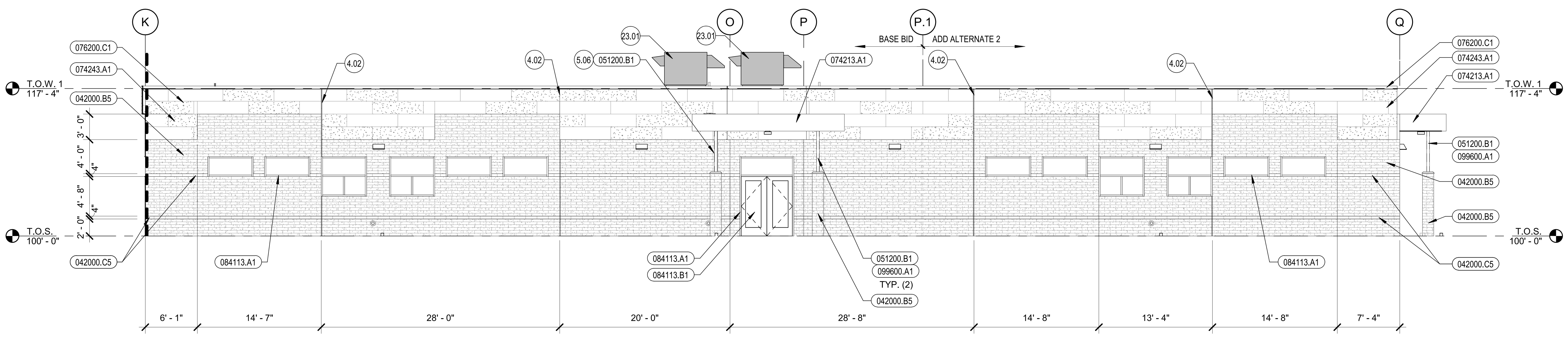
1 WEST ELEVATION - OVERALL
1/16" = 1'-0"



2 PARTIAL WEST ELEVATION 1
1/8" = 1'-0"



3 PARTIAL WEST ELEVATION 2
1/8" = 1'-0"



4 PARTIAL WEST ELEVATION 3
1/8" = 1'-0"

General Notes

1. SEE FLOOR PLANS, SHEETS A3.1-A3.7, FOR BUILDING AND WALL SECTION REFERENCES.
2. SEE ROOF PLAN, SHEETS A6.1, FOR PARAPET COPING AND ROOF FLASHING DETAIL REFERENCES.
3. SEAL ALL EXTERIOR MASONRY SURFACES WITH WATER REPELLENT SEALER/ ANTI GRAFFITI COATING, SEE SPECIFICATIONS.
4. PRIME AND PAINT IN ENTIRETY ALL ROOF TOP EQUIPMENT, VENTS, AND FLUES EXTENDING ABOVE TOP OF PARAPET ELEVATION. COLOR AS SELECTED BY THE ARCHITECT.
5. SEE FLOOR PLANS AND WALL SECTIONS FOR CMU VENEER AND STRUCTURAL CMU LOCATIONS.
6. AT TOP MASONRY COURSE OF ALL PARAPET LOCATIONS, SOFFIT TIE IN, LIGHTING, ETC. CONCRETE MASONRY UNIT SHALL BE SMOOTH FACE.

Reference Notes

4.02	CONTROL JOINT.
5.06	BEHIND COLUMN. SEE DETAIL 5/A6.5.
23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
051200.B1	STEEL COLUMN
055000.G1	STEEL TUBE DOWNSPOUT, 4"X4"X1/8" STEEL TUBE. PRIME & PAINT.
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
099600.A1	HIGH PERFORMANCE COATING

Legend

- 8x16 CMU - SPLIT FACE, COLOR B
- 4x16 CMU - GROUND FACE, COLOR A
- 4x16 CMU - SPLIT FACE, COLOR B
- FIBER CEMENT SIDING PANELS, COLOR A
- FIBER CEMENT SIDING PANELS, COLOR B

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02/11/2022

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

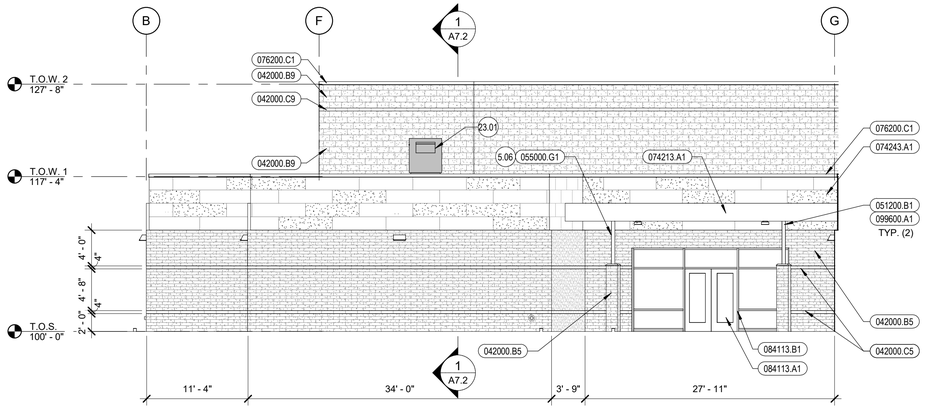
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

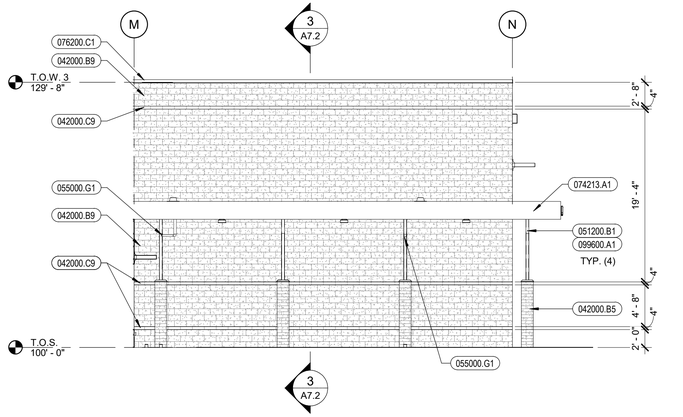
BID SET

DRAWING NO.:

A5.4
ELEVATIONS



1 PARTIAL EAST ELEVATION 4
1/8" = 1'-0"



2 PARTIAL EAST ELEVATION 5
1/8" = 1'-0"

General Notes

1. SEE FLOOR PLANS, SHEETS A3.1-A3.7, FOR BUILDING AND WALL SECTION REFERENCES.
2. SEE ROOF PLAN, SHEETS A6.1, FOR PARAPET COPING AND ROOF FLASHING DETAIL REFERENCES.
3. SEAL ALL EXTERIOR MASONRY SURFACES WITH WATER REPELLENT SEALER/ ANTI GRAFFITI COATING, SEE SPECIFICATIONS.
4. PRIME AND PAINT IN ENTIRETY ALL ROOF TOP EQUIPMENT, VENTS, AND FLUES EXTENDING ABOVE TOP OF PARAPET ELEVATION. COLOR AS SELECTED BY THE ARCHITECT.
5. SEE FLOOR PLANS AND WALL SECTIONS FOR CMU VENEER AND STRUCTURAL CMU LOCATIONS.
6. AT TOP MASONRY COURSE OF ALL PARAPET LOCATIONS, SOFFIT TIE IN, LIGHTING, ETC. CONCRETE MASONRY UNIT SHALL BE SMOOTH FACE.

Reference Notes

5.06	BEHIND COLUMN. SEE DETAIL 5/A6.5.
23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
051200.B1	STEEL COLUMN
055000.G1	STEEL TUBE DOWNSPOUT. 4"X4"X1/8" STEEL TUBE. PRIME & PAINT.
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
099600.A1	HIGH PERFORMANCE COATING

Legend

- 8x16 CMU - SPLIT FACE, COLOR B
- 4x16 CMU - GROUND FACE, COLOR A
- 4x16 CMU - SPLIT FACE, COLOR B
- FIBER CEMENT SIDING PANELS, COLOR A
- FIBER CEMENT SIDING PANELS, COLOR B

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REGISTERED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

Revisions		
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Jerome School District No. 261
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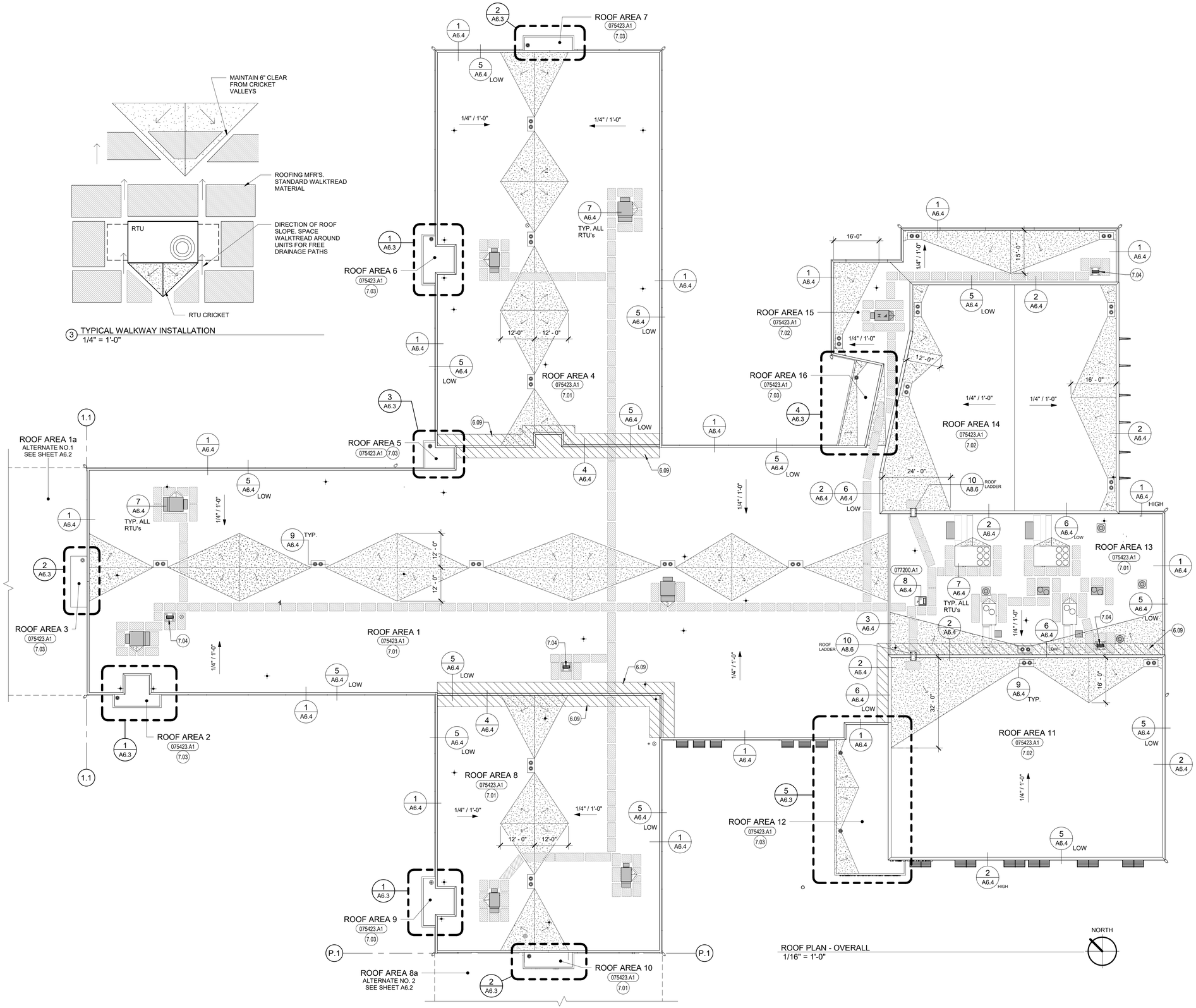
DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

A5.5
ELEVATIONS

3 TYPICAL WALKWAY INSTALLATION
1/4" = 1'-0"



ROOF PLAN - OVERALL
1/16" = 1'-0"

NORTH

General Notes

1. ALL CRICKETS SHALL BE 1/2" PER FOOT FROM HORIZONTAL PLANE.
2. POLYISOCYANURATE ROOF INSULATION SHALL TYPICALLY BE INSTALLED IN 2 1/2" LAYERS FOR TOTAL THICKNESS OF 5" EXCEPT AT EXTERIOR CANOPIES.
3. FIELD PAINT IN THEIR ENTIRETY ANY ROOFTOP MECHANICAL EQUIPMENT DUCTS, FLUES, ETC. THAT EXTEND ABOVE THE TOP OF ANY SURROUNDING PARAPETS. PAINT COLOR SELECTED BY ARCHITECT.
4. SEE PLUMBING FOR PLUMBING VENT LOCATIONS. FLASH IN ACCORDANCE WITH ROOFING MFR'S. REQUIREMENTS.

Reference Notes

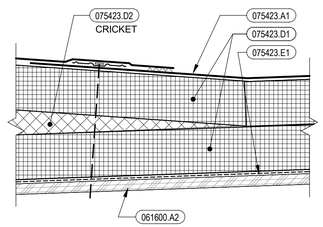
6.09	TWO HOUR FIRE WALL TO UNDERSIDE OF ROOF DECK. FIRE RETARDANT TREATED ROOF SHEATHING REQUIRED 4'-0" MINIMUM ON EACH SIDE OF WALL. NO OPENINGS PERMITTED.
7.01	ROOF ASSEMBLY A. SEE 1/A6.1
7.02	ROOF ASSEMBLY B. SEE 2/A6.1
7.03	ROOF ASSEMBLY C. SEE 6/A6.3
7.04	ROOFING ASSEMBLY PER PLAN.

Keyed Notes

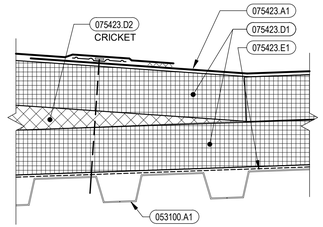
053100.A1	STEEL ROOF DECK, 1 1/2", 20 GUAGE, TYPE B UNO.
061600.A2	ROOF SHEATHING, SEE STRUCTURAL DRAWINGS.
075423.A1	SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
075423.D1	RIGID ROOF INSULATION - POLYISOCYANURATE, (2) LAYERS, 2 1/2"
075423.D2	TAPERED ROOF INSULATION - EPS BOARD
075423.E1	VAPOR RETARDER
077200.A1	PRE-FABRICATED ROOF HATCH AND CURB

Legend

- BUILT-UP CRICKET. SLOPE 1/2" / FT. FROM HORIZONTAL PLANE.
- BUILT-UP CRICKET AT ALL RTU'S. SLOPE 1/2" / FT. FROM HORIZONTAL PLANE. 2'-0" MIN. FOR UNITS WHERE X < 6' 3'-0" MIN. FOR UNITS WHERE X > 6'
- ROOF TOP MECH. UNITS (RTU). VARIOUS - ON MFR'S FACTORY CURBS. SEE 7/A6.4
- PLUMBING VENT-THRU-ROOF (VTR), HYDRANTS, OR OTHER MISC. PIPE PENETRATIONS. FLASH PER ROOFING MEMBRANE MFR'S. REQUIREMENTS.
- ROUND DUCT PENETRATION. FLASH PER ROOFING MEMBRANE MFR'S. REQUIREMENTS.
- ROOF & OVER FLOW DRAINS. SEE 9/A6.4
- ROOFING MEMBRANE MFR'S. STANDARD HEAT WELDED WALK TREAD. MAX. 5' LENGTHS 6" APART FOR PATHWAYS PERPENDICULAR TO ROOF SLOPE.



1 Roof Assembly A
3" = 1'-0"



2 Roof Assembly B
3" = 1'-0"

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DATE: 02/11/2022
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DRAWN BY: KB
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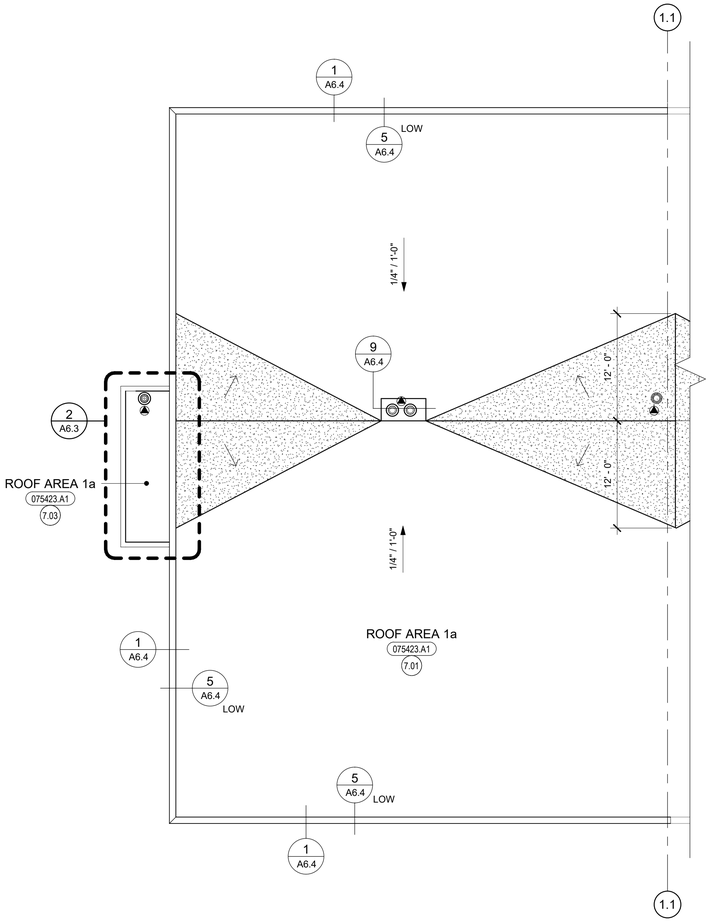
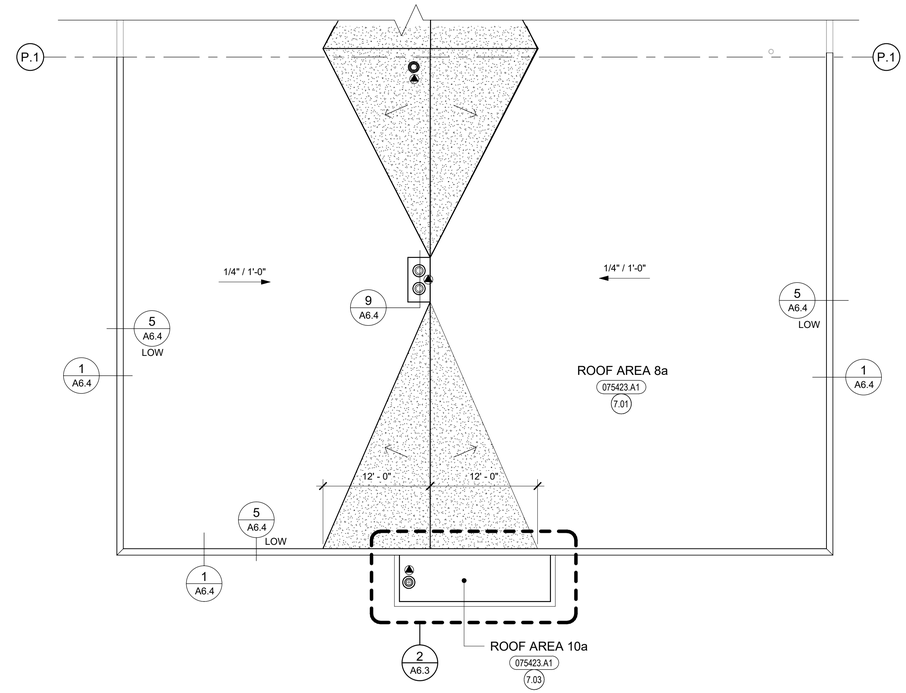
DRAWING NO.:
A6.1
ROOF PLAN



1 ROOF PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



2 ROOF PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

General Notes

1. ALL CRICKETS SHALL BE 1/2" PER FOOT FROM HORIZONTAL PLANE.
2. POLYISOCYANURATE ROOF INSULATION SHALL TYPICALLY BE INSTALLED IN 2 1/2" LAYERS FOR TOTAL THICKNESS OF 5" EXCEPT AT EXTERIOR CANOPIES.
3. FIELD PAINT IN THEIR ENTIRETY ANY ROOFTOP MECHANICAL EQUIPMENT DUCTS, FLUES, ETC. THAT EXTEND ABOVE THE TOP OF ANY SURROUNDING PARAPETS. PAINT COLOR SELECTED BY ARCHITECT.
4. SEE PLUMBING FOR PLUMBING VENT LOCATIONS. FLASH IN ACCORDANCE WITH ROOFING MFR'S. REQUIREMENTS.

Reference Notes

7.01 ROOF ASSEMBLY A. SEE 1/A6.1
7.03 ROOF ASSEMBLY C. SEE 6/A6.3

Keyed Notes

075423.A1 SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO

Legend

- BUILT-UP CRICKET. SLOPE 1/2" / FT. FROM HORIZONTAL PLANE.
- BUILT-UP CRICKET AT ALL RTU'S. SLOPE 1/2" / FT. FROM HORIZONTAL PLANE. 2'-0" MIN. FOR UNITS WHERE X < 6' 3'-0" MIN. FOR UNITS WHERE X > 6'
- ROOF TOP MECH. UNITS (RTU). VARIOUS - ON MFR'S FACTORY CURBS. SEE 7/A6.4
- PLUMBING VENT-THRU-ROOF (VTR). FLASH PER ROOFING MEMBRANE MFR'S. REQUIREMENTS
- ROOF & OVER FLOW DRAINS. SEE 9/A6.4
- ROOFING MEMBRANE MFR'S. STANDARD HEAT WELDED WALK TREAD. MAX. 5' LENGTHS 6" APART FOR PATHWAYS PERPENDICULAR TO ROOF SLOPE.

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REGISTERED ARCHITECT Brad Thurst 02/11/2022 STATE OF IDAHO

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DRAWN BY: Author
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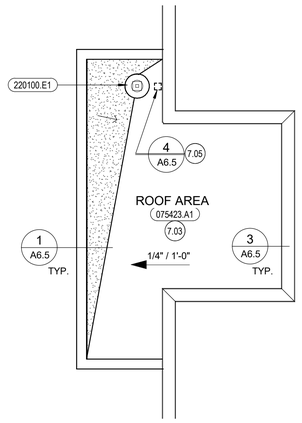
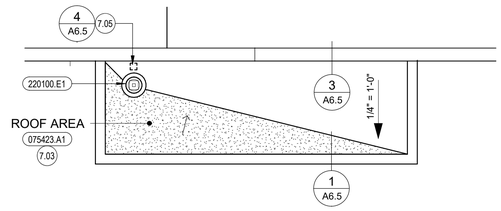
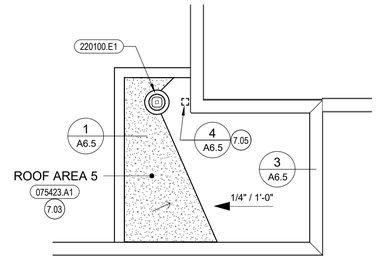
A6.2
ROOF PLAN - ADD ALTERNATE



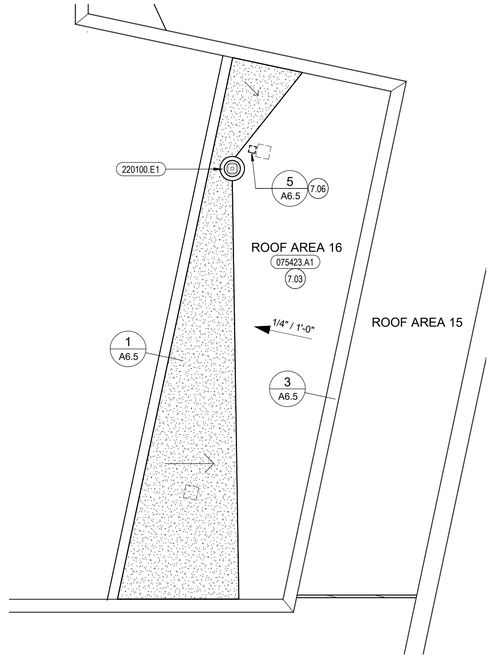
1 ROOF PLAN - CANOPY ROOF AREAS 2, 6, & 9
1/4" = 1'-0"



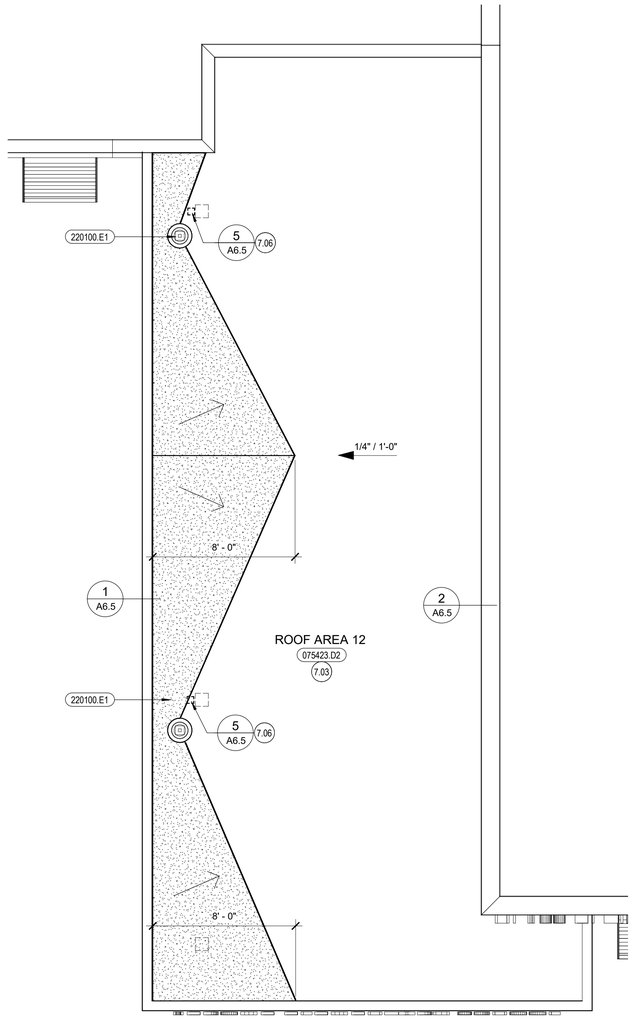
2 ROOF PLAN - CANOPY ROOF AREAS 3 or 3a, 7, 10 or 10a
1/4" = 1'-0"



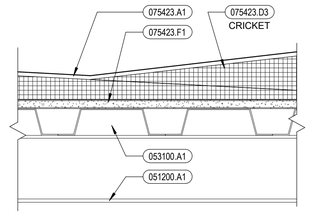
3 ROOF PLAN - CANOPY ROOF AREA 5
1/4" = 1'-0"



4 ROOF PLAN - CANOPY ROOF AREA 16
1/4" = 1'-0"



5 ENLARGED PLAN - FRONT CANOPY
1/4" = 1'-0"



6 Roof Assembly C
3" = 1'-0"

General Notes

Reference Notes

7.03	ROOF ASSEMBLY C. SEE 6/A6.3
7.05	STEEL DOWNSPOUT ON WALL BELOW. SEE CIVIL FOR CONNECTIONS TO SUB-GRADE DRAINAGE SYSTEM.
7.06	STEEL DOWNSPOUT ON COLUMN BELOW. SEE CIVIL FOR CONNECTIONS TO SUB-GRADE DRAINAGE SYSTEM.

Keyed Notes

051200.A1	STEEL BEAM
053100.A1	STEEL ROOF DECK, 1 1/2", 20 GUAGE, TYPE B UNO.
075423.A1	SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
075423.D2	TAPERED ROOF INSULATION - EPS BOARD
075423.D3	TAPERED ROOF INSULATION - POLYISO TAPERED SYSTEM
075423.F1	SUBSTRATE BOARD, 1/2"
220100.E1	ROOF DRAIN

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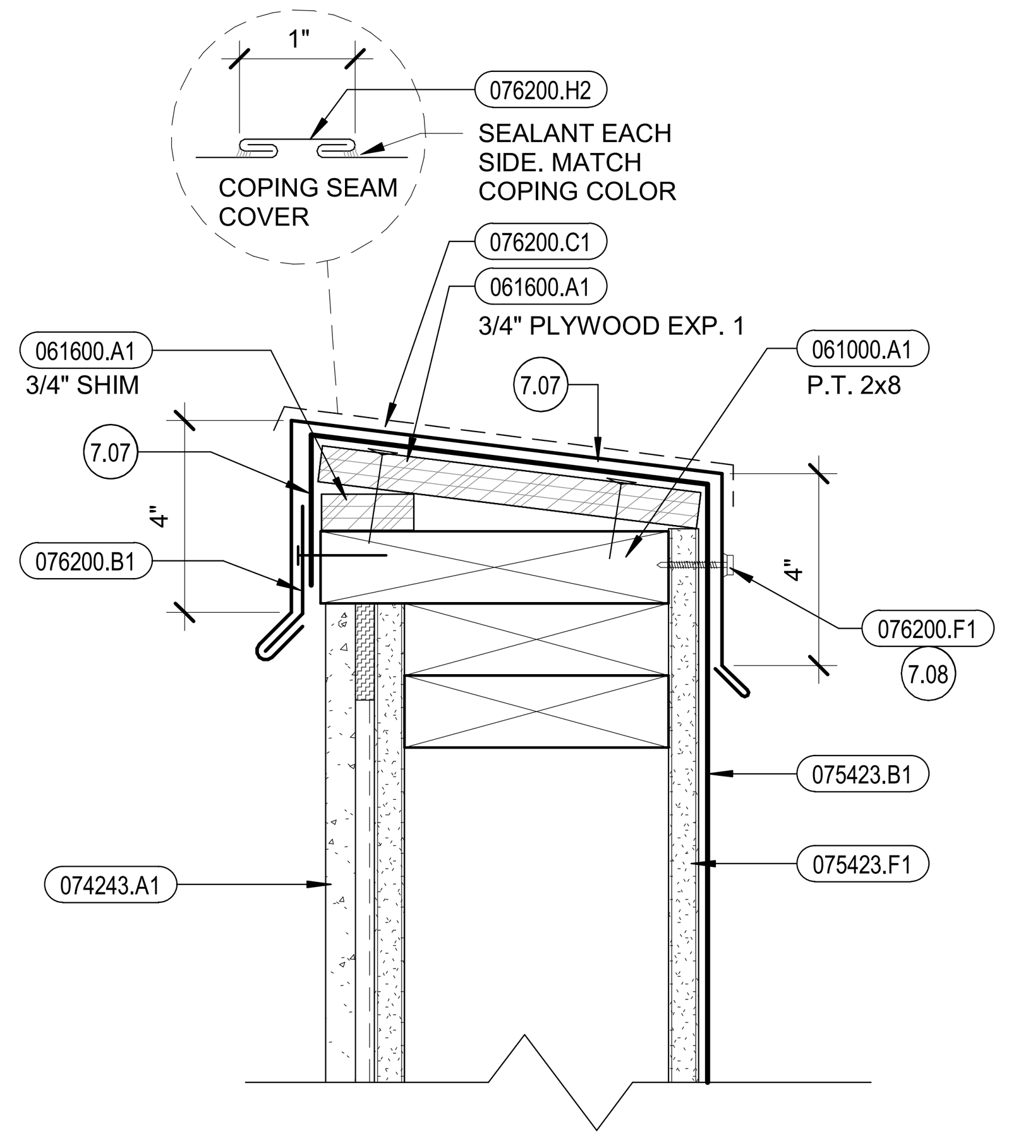
DRAWN BY: Author
CHECKED BY: Checker

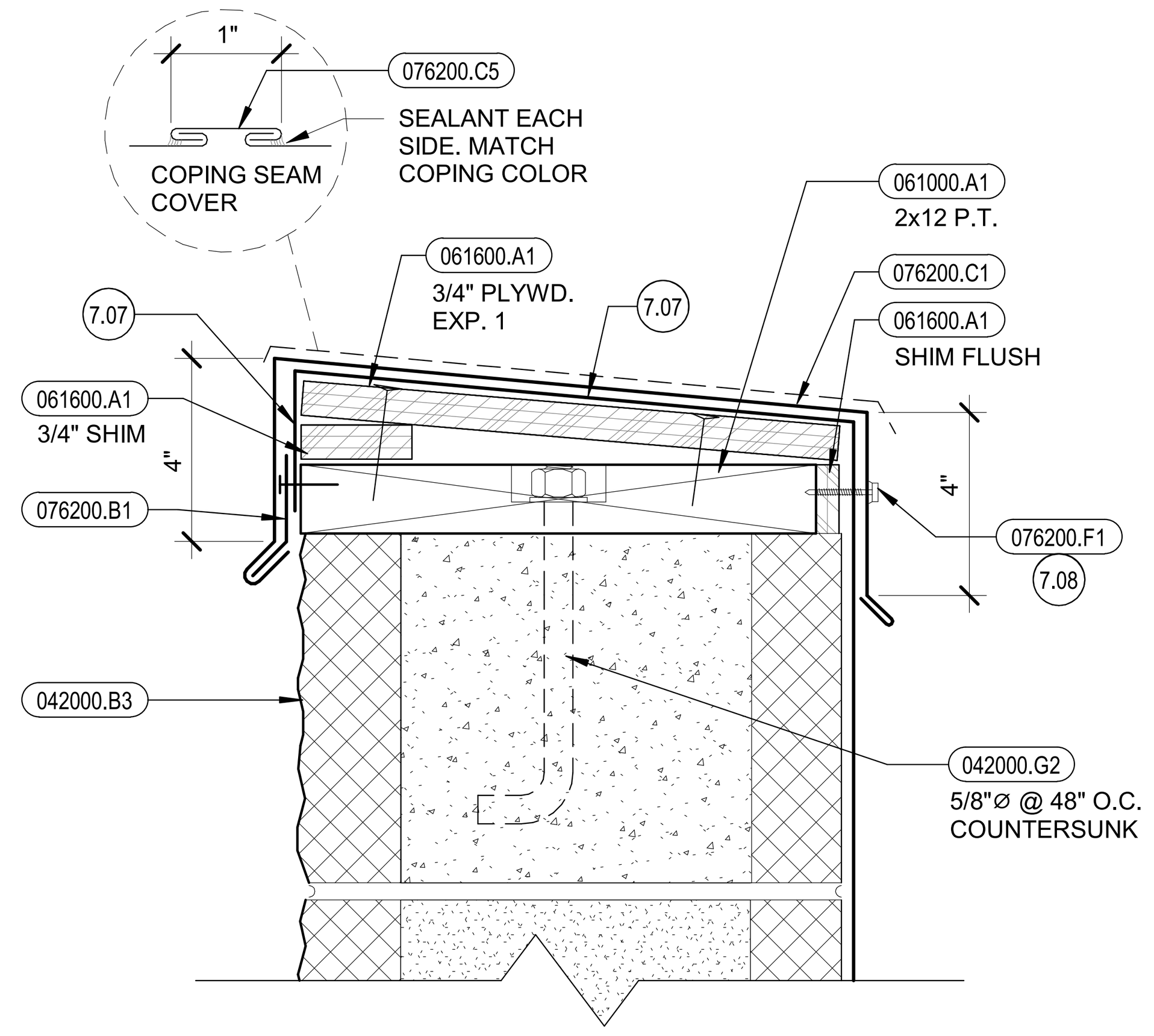
BID SET

DRAWING NO.:

A6.3
ENLARGED ROOF PLANS



1 PARAPET COPING
3" = 1'-0"



2 PARAPET COPING
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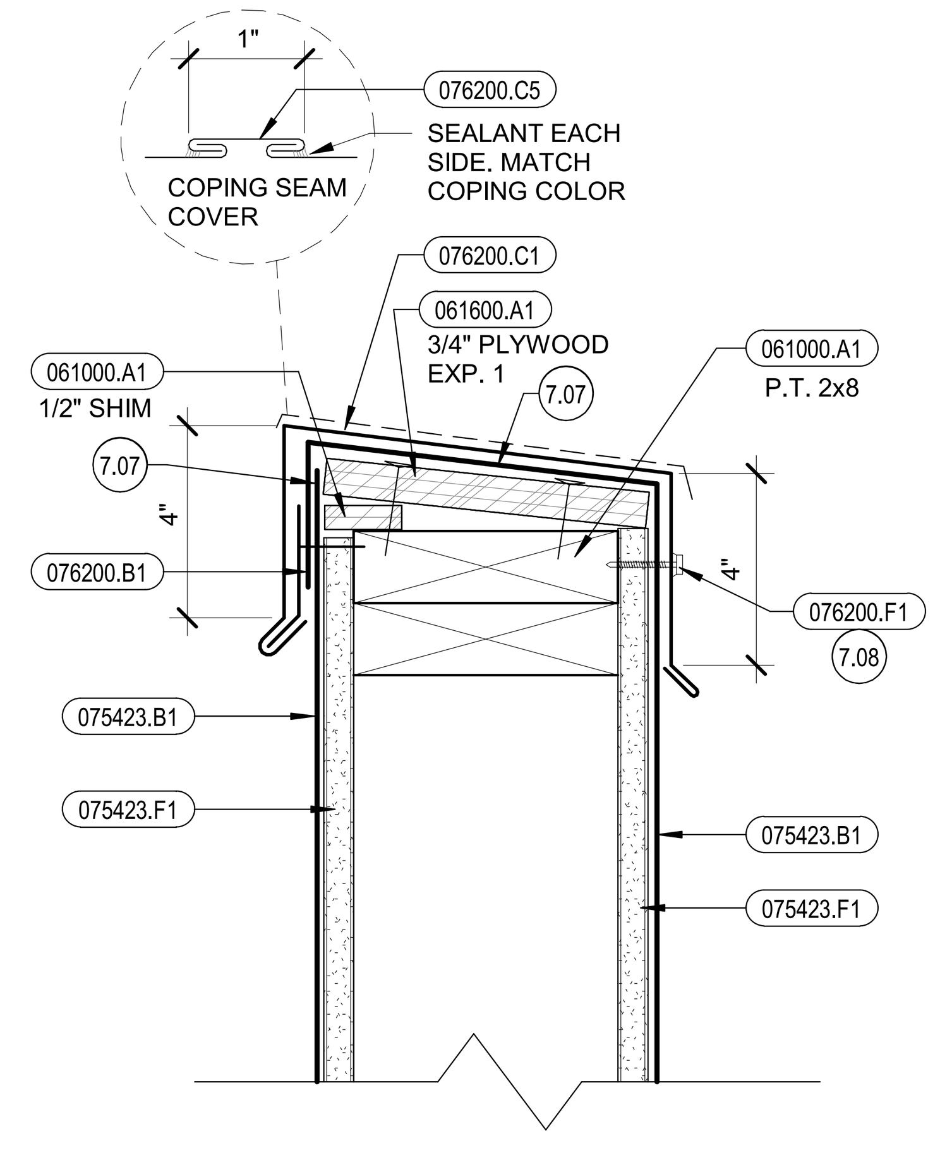

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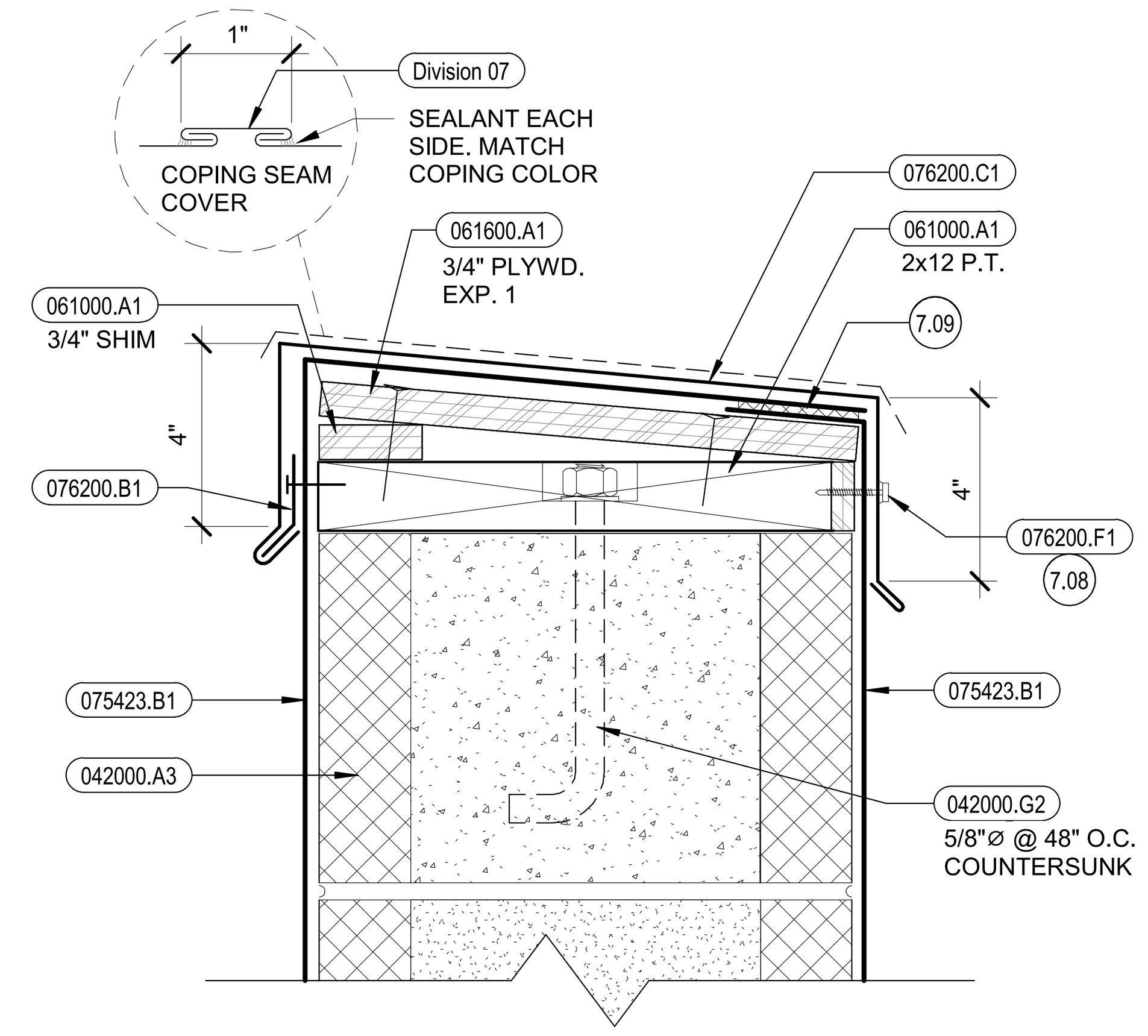
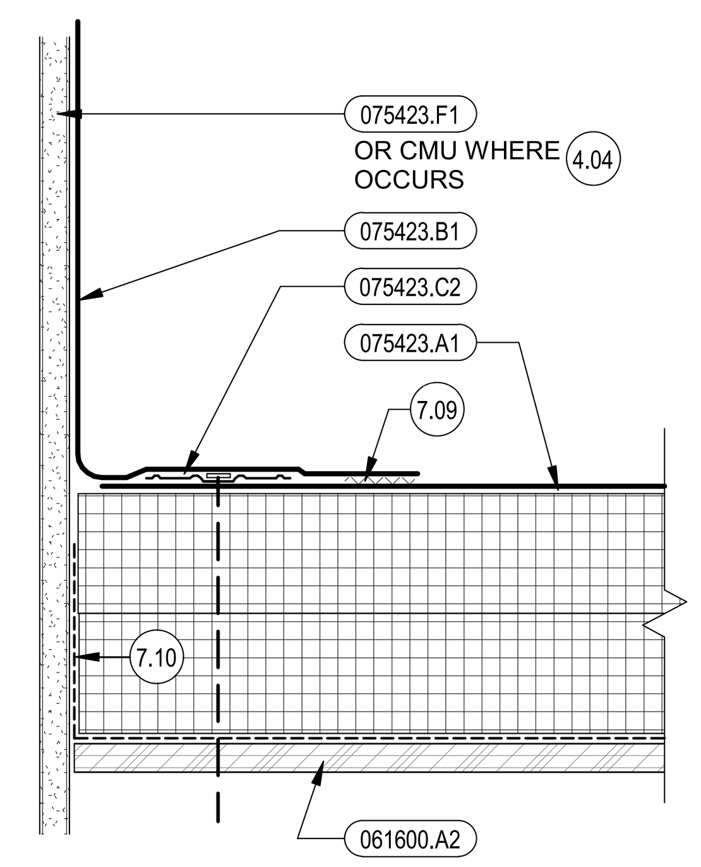
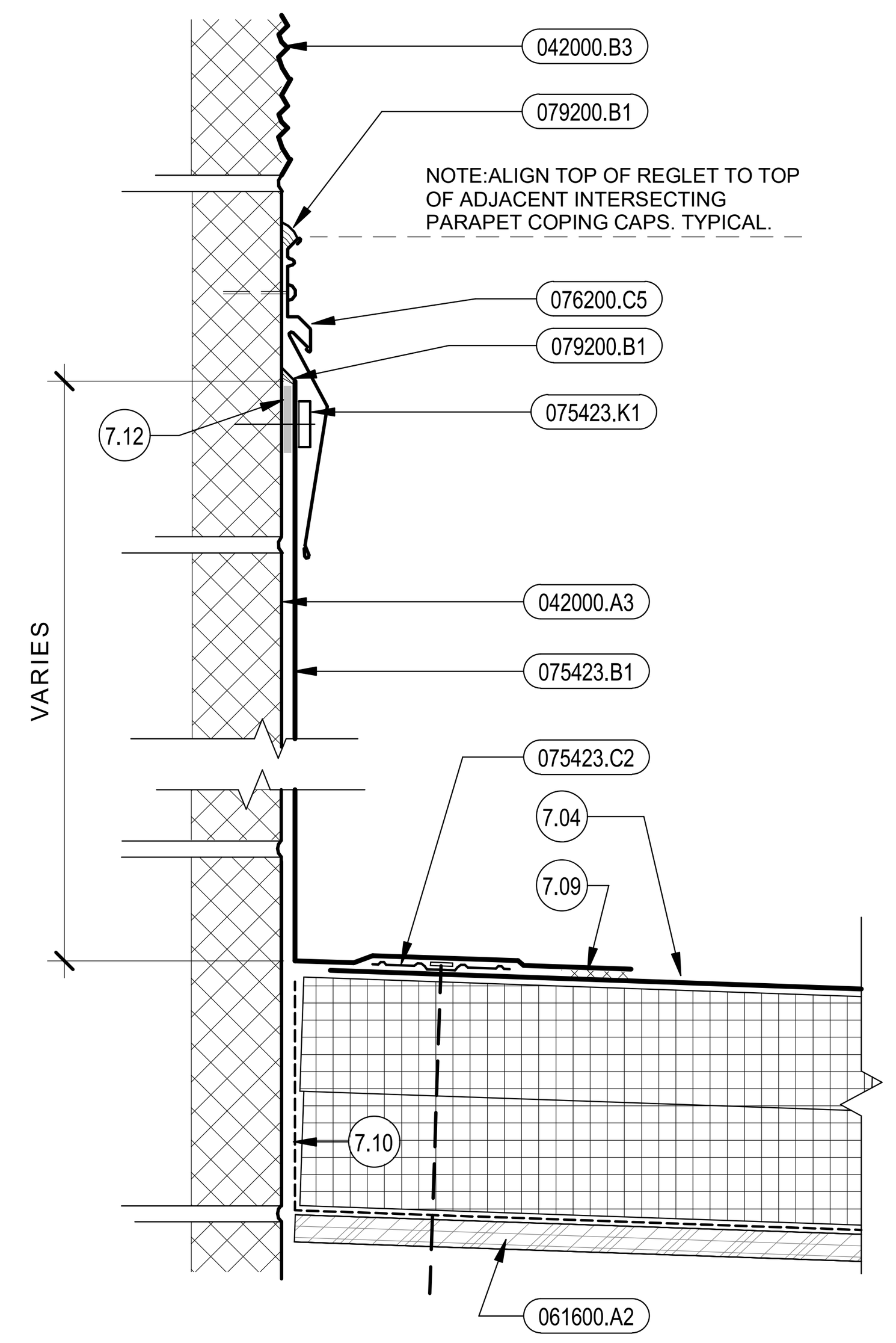
3" = 1'-0"



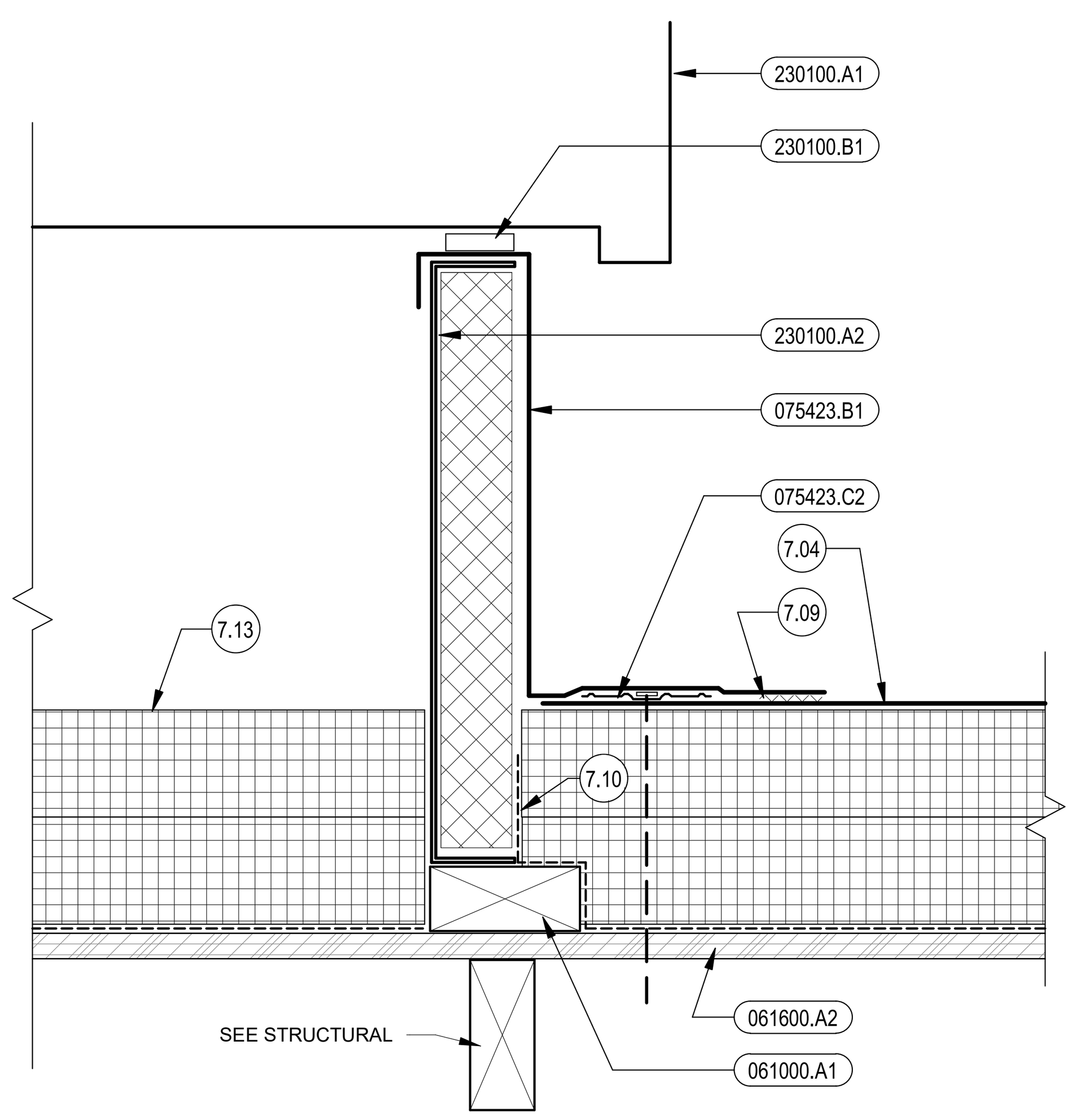
4 PARAPET COPING
3" = 1'-0"



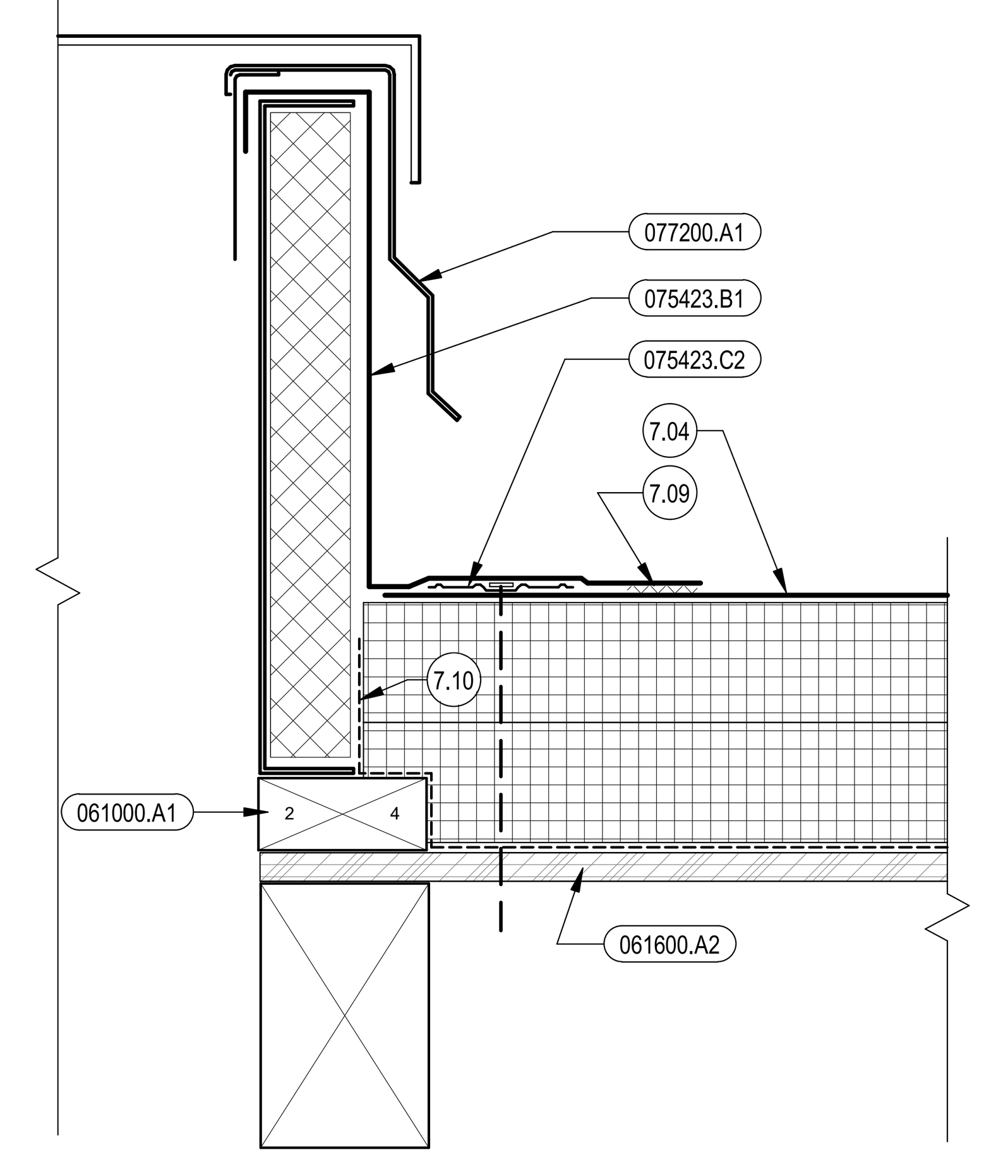
5 Parapet Flashing
3" = 1'-0"



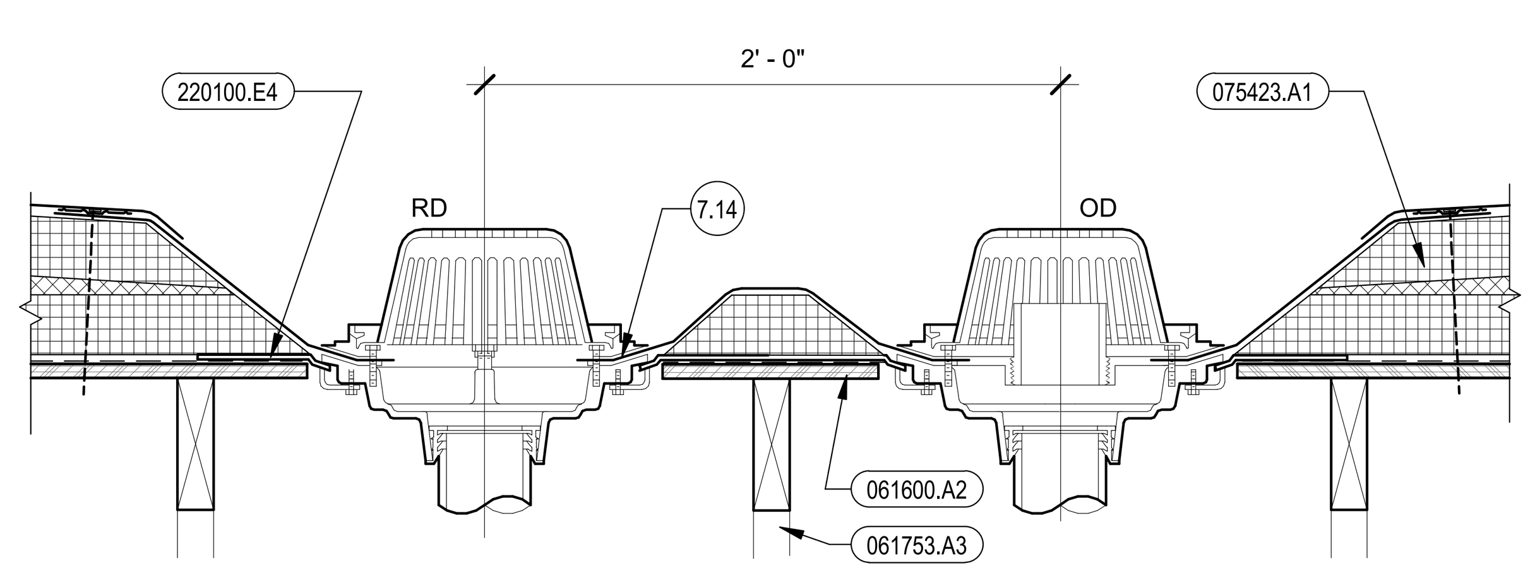
6 Flashing at CMU
3" = 1'-0"



7 MECHANICAL CURB
3" = 1'-0"



8 ROOF HATCH CURB
3" = 1'-0"



9 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

General Notes

1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

4.04	PROVIDE SMOOTH CMU OF SAME SIZE AND COLOR CONTINUOUS ALONG ALL EXTERIOR BUILDING COMPONENTS FOR WATER TIGHT AND STRUCTURAL CONNECTION POINTS.
7.04	ROOFING ASSEMBLY PER PLAN.
7.07	CONTINUE FLASHING MEMBRANE OVER TOP AND DOWN FRONT FACE AND FASTEN @ 12" O.C.
7.08	HEX HEAD FASTENERS W/ NEOPRENE WASHERS @ MAX. 24" O.C. - COLOR MATCH COPING.
7.09	HEAT WELD
7.10	TURN UP VAPOR BARRIER MINIMUM 4" AND SEAL TO PERIMETER OF WALLS, CURBS, OR PIPES WITH DOUBLE BEAD OF URETHANE SEALANT.
7.12	CONTINUOUS CUT OFF MASTIC
7.13	CONTINUE ROOF INSULATION UNDER UNIT. ALL CAVITIES.
7.14	FLASH DRAINS PER ROOFING MEMBRANE MFR'S. STANDARDS.

Keyed Notes

042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
042000.G2	ANCHOR BOLT, GALV.
061000.A1	DIMENSION LUMBER
061600.A1	SHEATHING, MISC. (TYPE AND THICKNESS INDICATED)
061600.A2	ROOF SHEATHING, SEE STRUCTURAL DRAWINGS.
061753.A3	PRE-ENGINEERED WOOD ROOF TRUSS(ES) - PARALLEL CHORD - 24" O.C. U.N.O.
074243.A1	FIBER CEMENT SIDING PANELS.
075423.A1	SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
075423.B1	ADHERED SINGLE-PLY MEMBRANE FLASHING
075423.C2	TYPICAL PERIMETER FASTENERS
075423.F1	SUBSTRATE BOARD, 1/2"
075423.K1	TERMINATION BAR
076200.B1	CONTINUOUS CLEAT, 20 GA. GAVL. FASTEN AT MIN. 12" O.C.
076200.C1	PRE-FINISHED METAL COPING, 24 GA.
076200.C5	SURFACE MOUNTED 2-PIECE 24 GA. REGLET & COUNTERFLASHING ASSEMBLY
076200.F1	FASTENER
076200.H2	JOINT SPLICE
077200.A1	PRE-FABRICATED ROOF HATCH AND CURB
079200.B1	ONE PART URETHANE SEALANT
220100.E4	RECEIVER
230100.A1	ROOFTOP MECHANICAL UNIT. SEE MECH.
230100.A2	UNIT MFR'S. FACTORY CURB W/ 1" INSUL.
230100.B1	NEOPRENE GASKET
Division 07	THERMAL AND MOISTURE PROTECTION

LKV ARCHITECTS
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Revisions

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DATE: 02/11/2022
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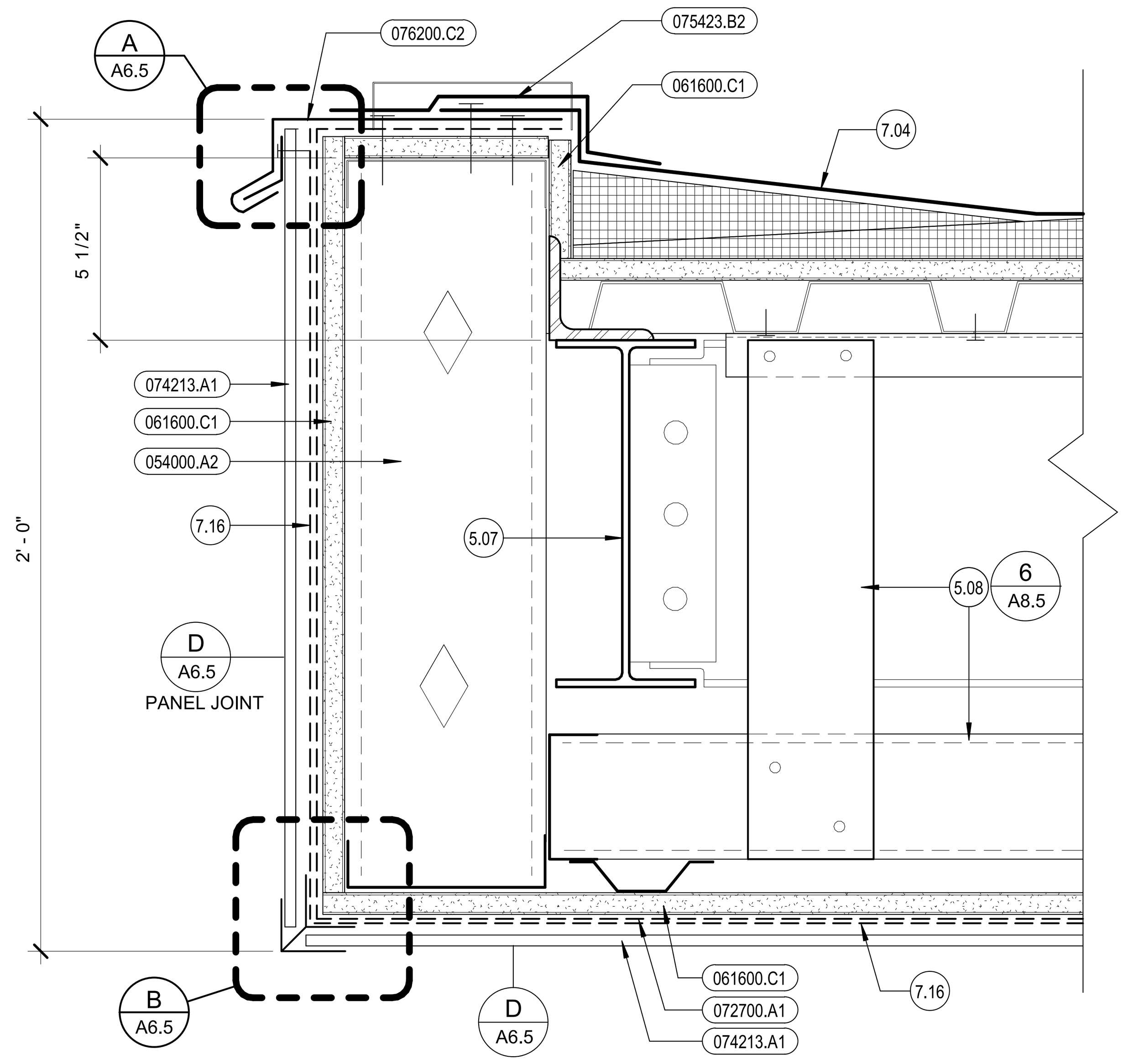
DRAWN BY: KB
CHECKED BY: BT

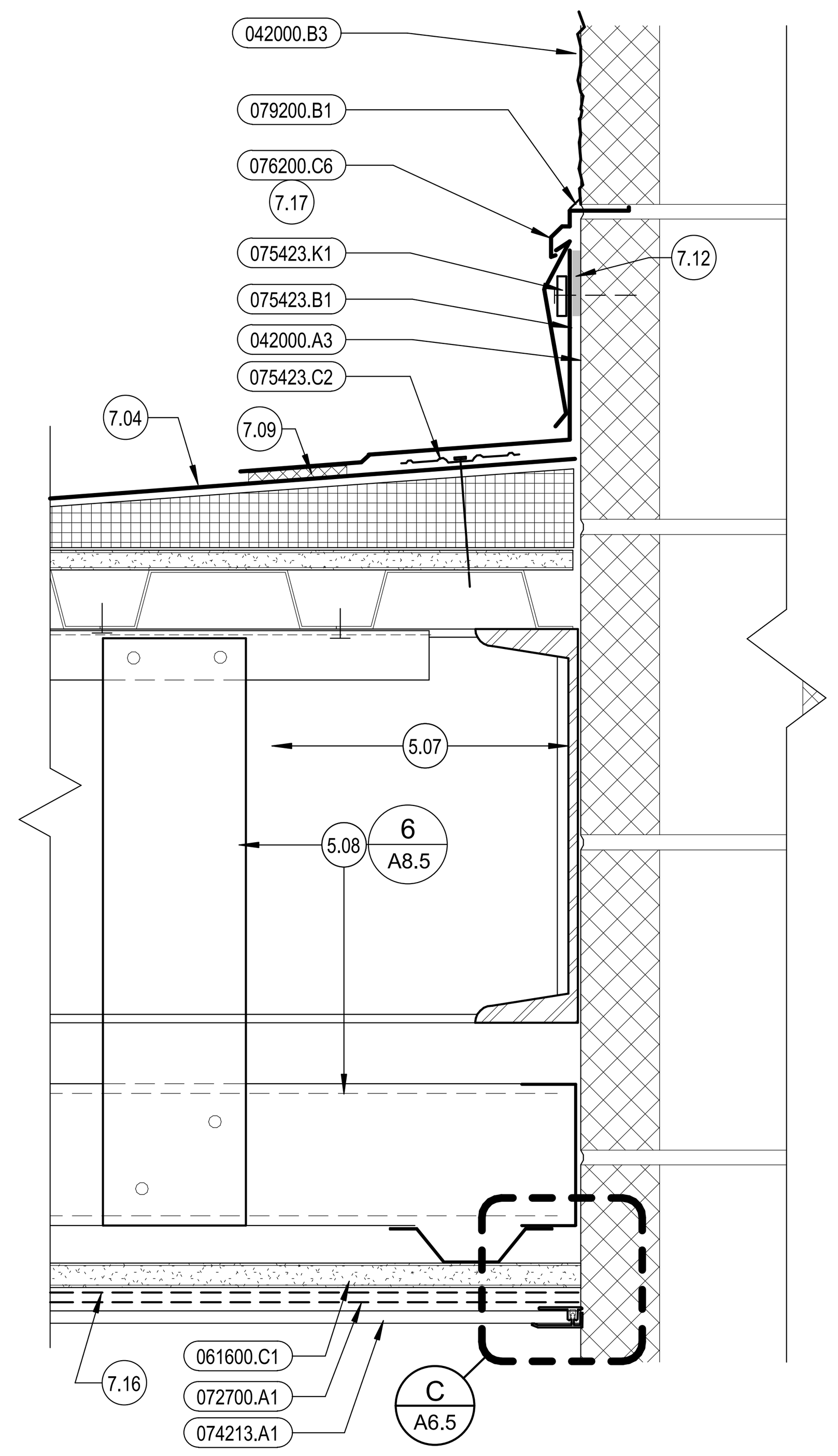
BID SET

DRAWING NO.:

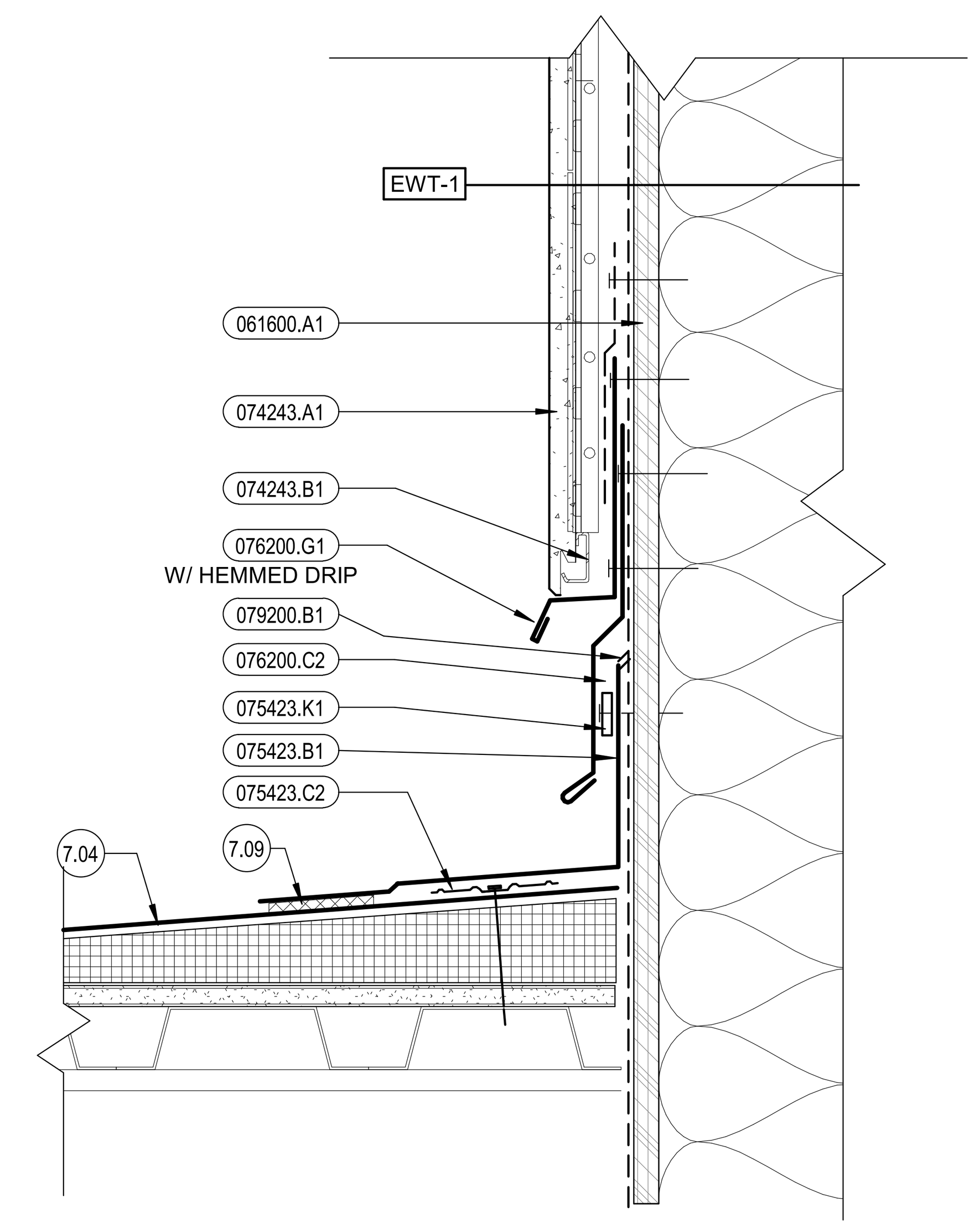
A6.4
ROOF DETAILS



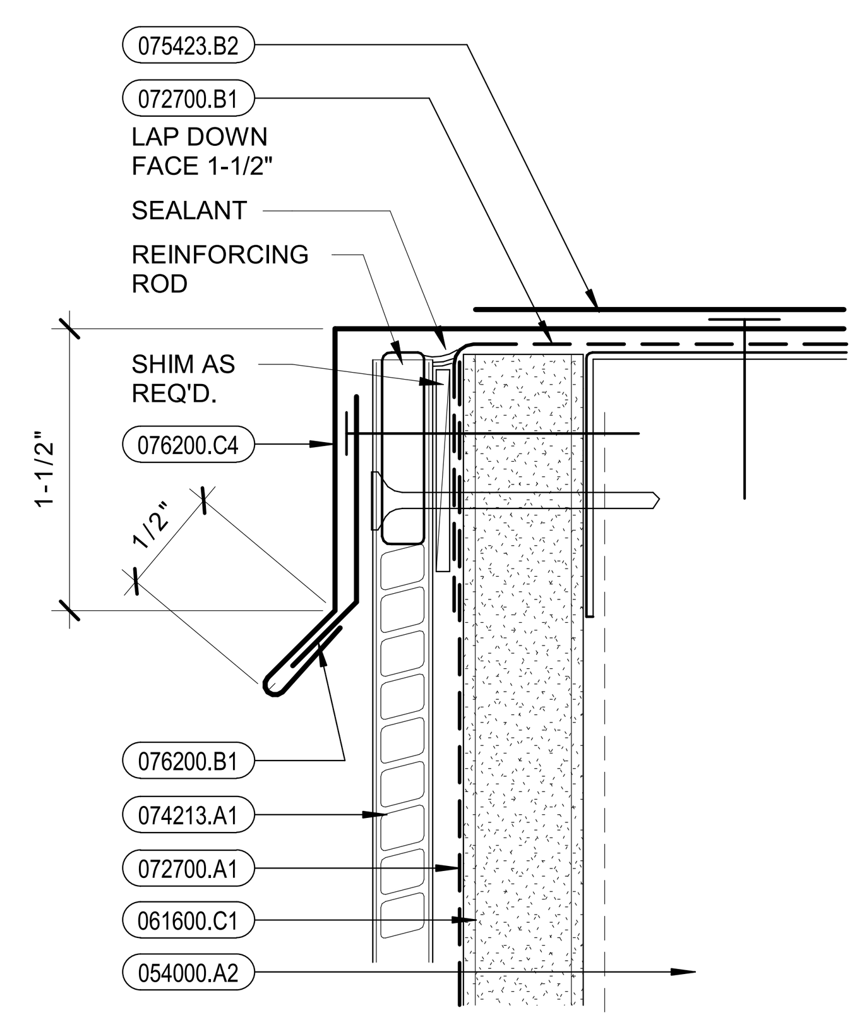
1 CANOPY - EDGE CONDITION
3" = 1'-0"



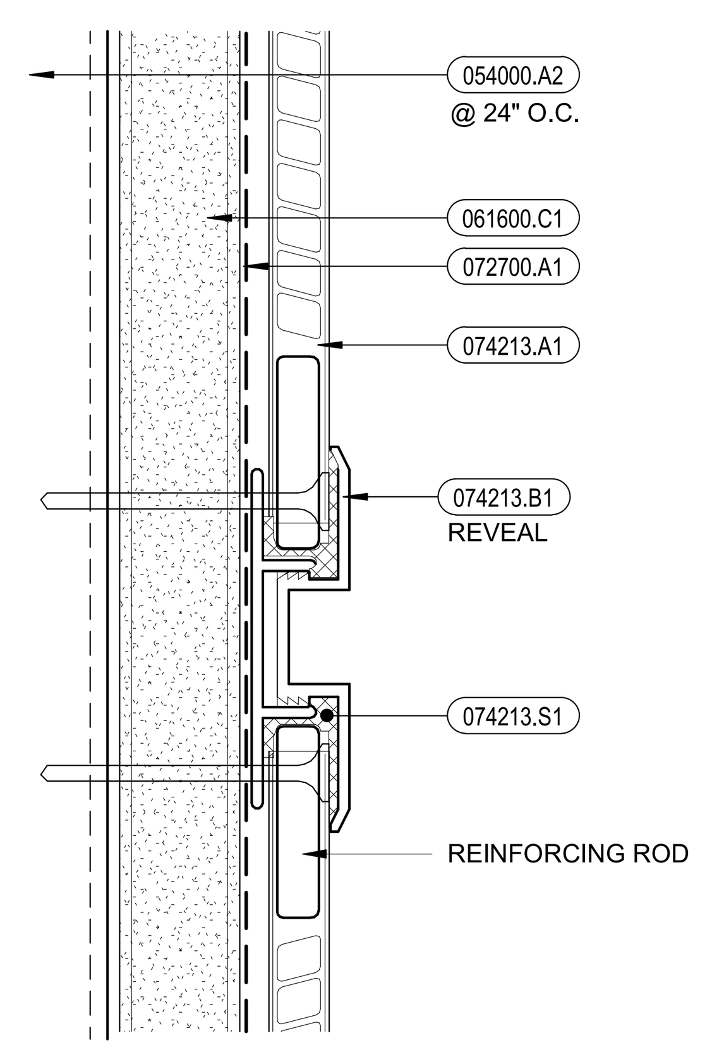
2 CANOPY - REGLET @ WALL
3" = 1'-0"



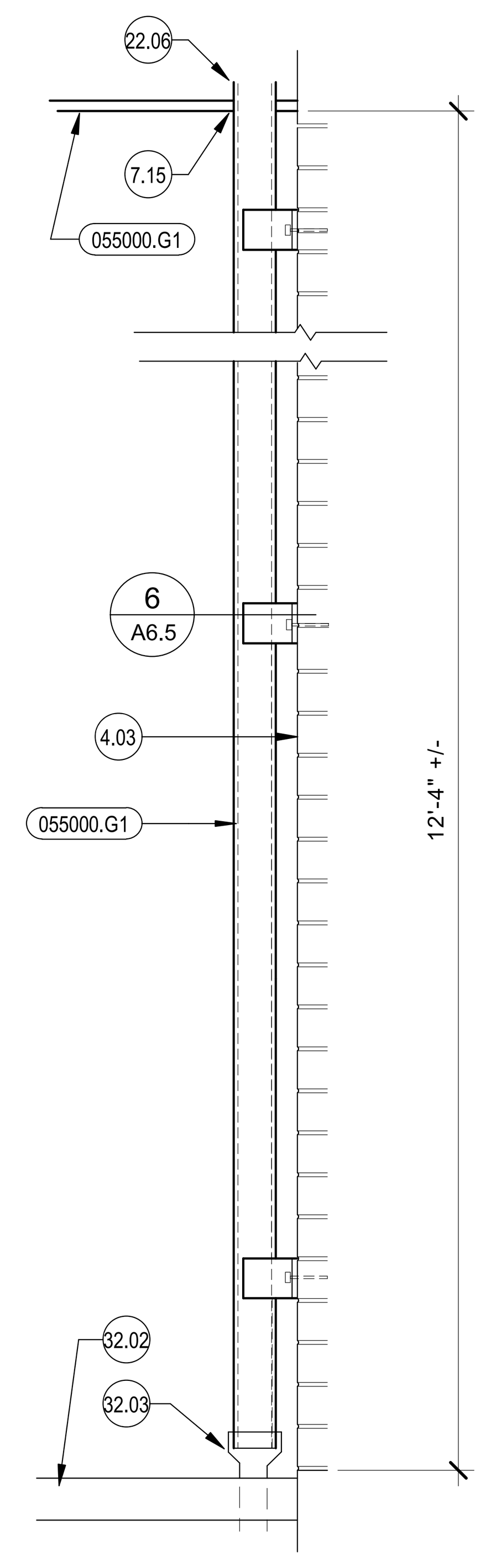
3 CANOPY REGLET @ WALL
3" = 1'-0"



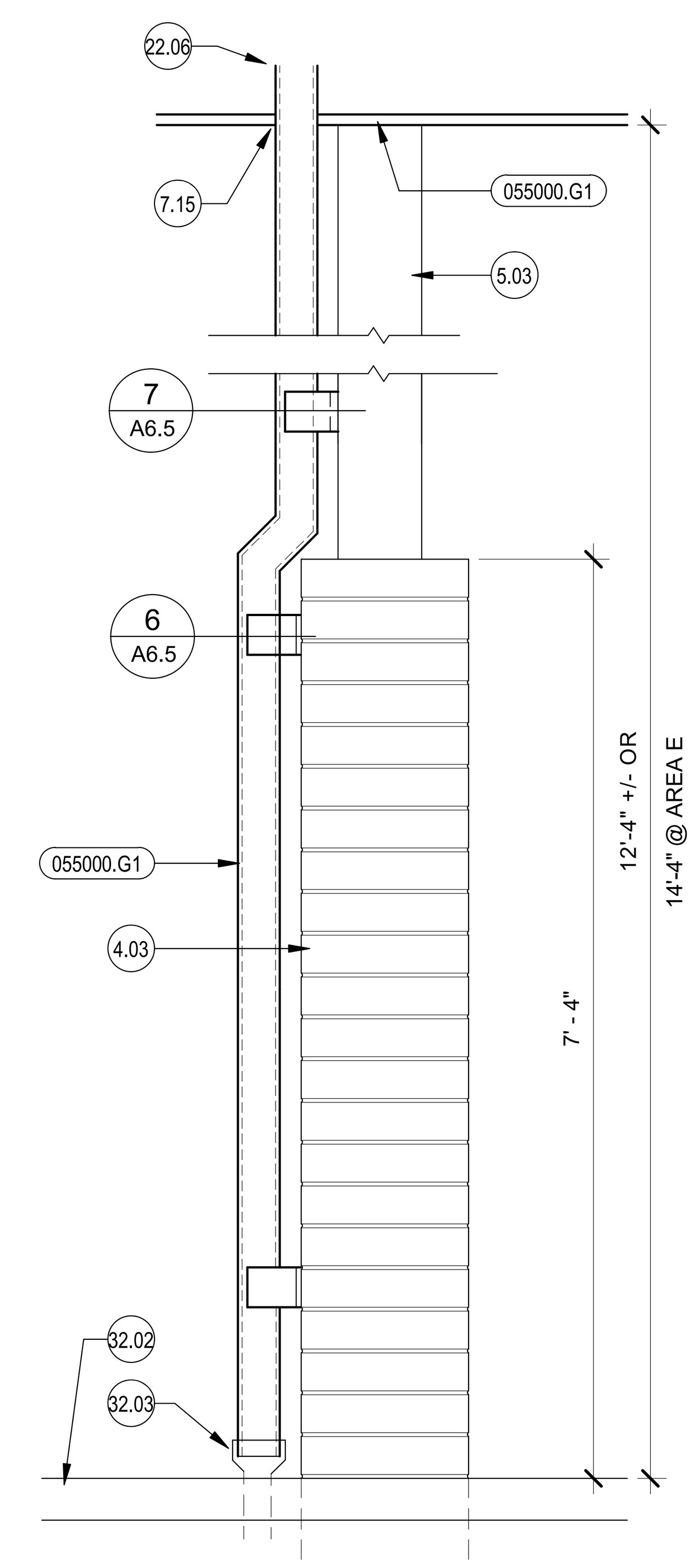
A METAL WALL PANEL & FASCIA
12" = 1'-0"



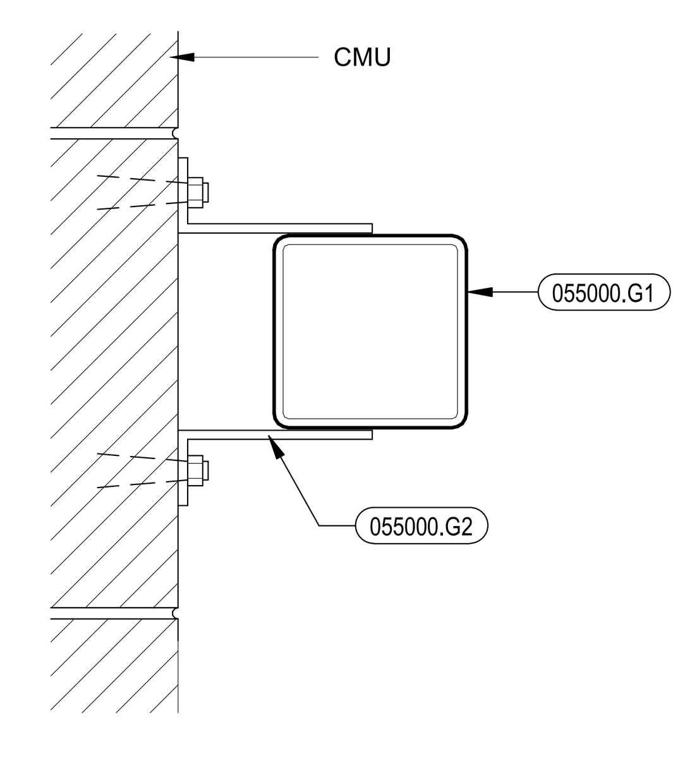
D METAL WALL PANEL - PANEL JOINT
12" = 1'-0"



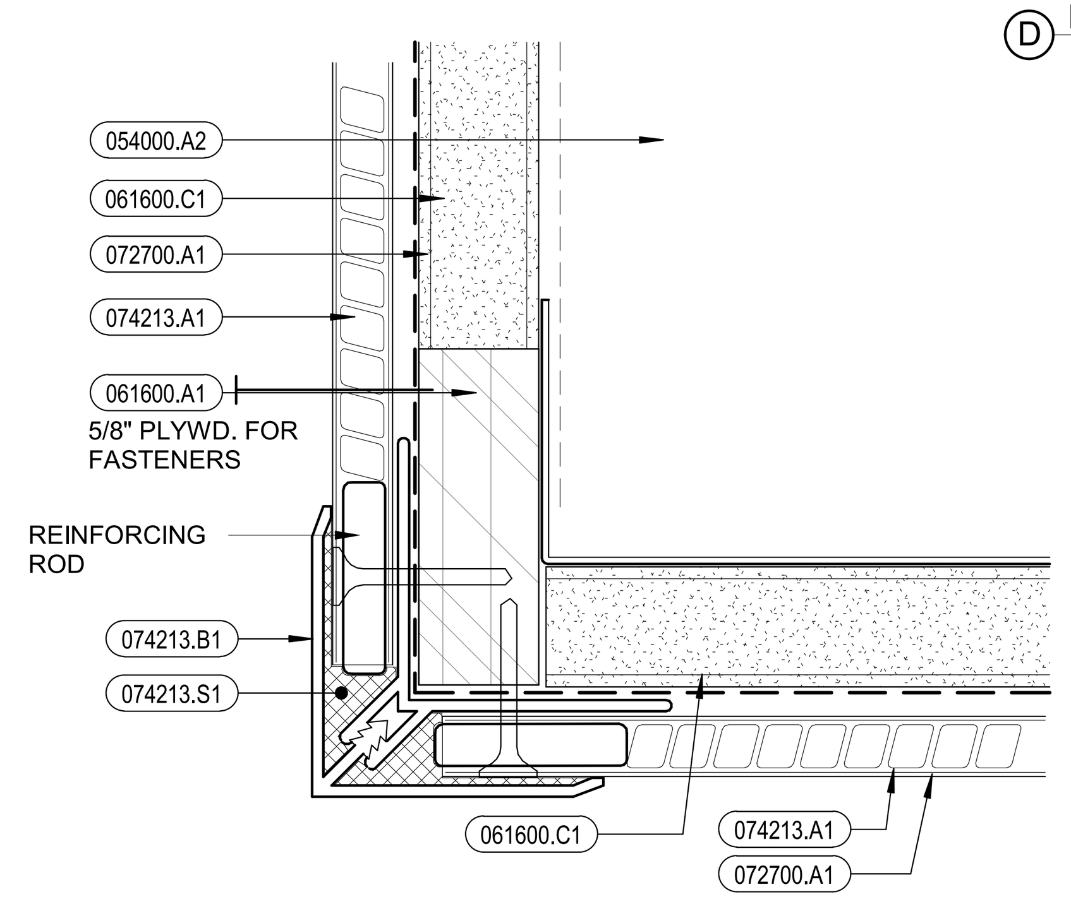
4 DOWNSPOUT @ WALL
3/4" = 1'-0"



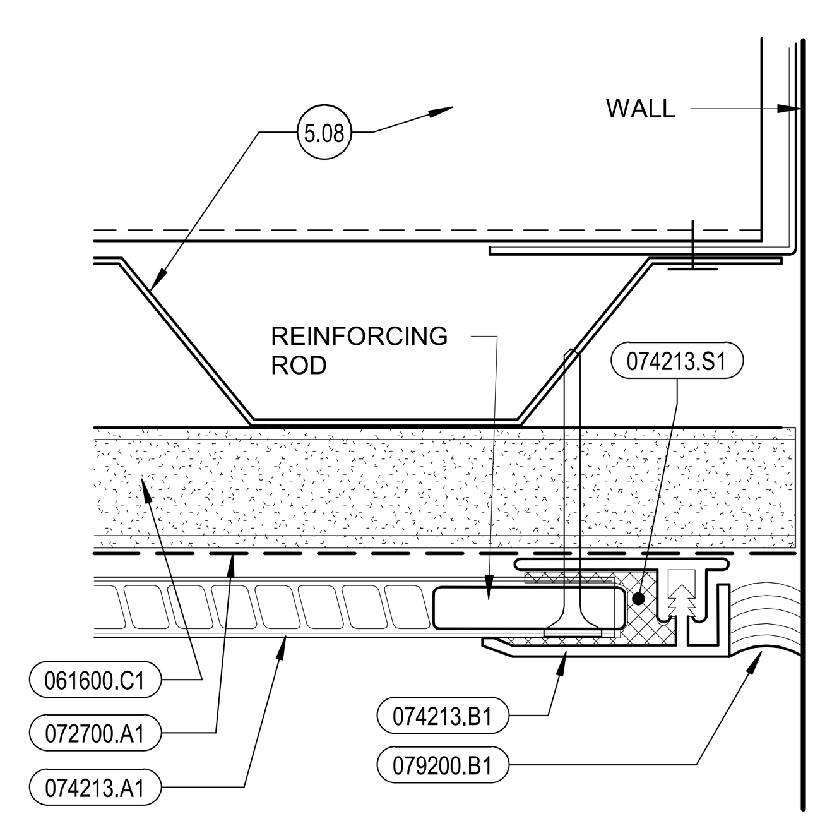
5 DOWNSPOUT @ COLUMN
3/4" = 1'-0"



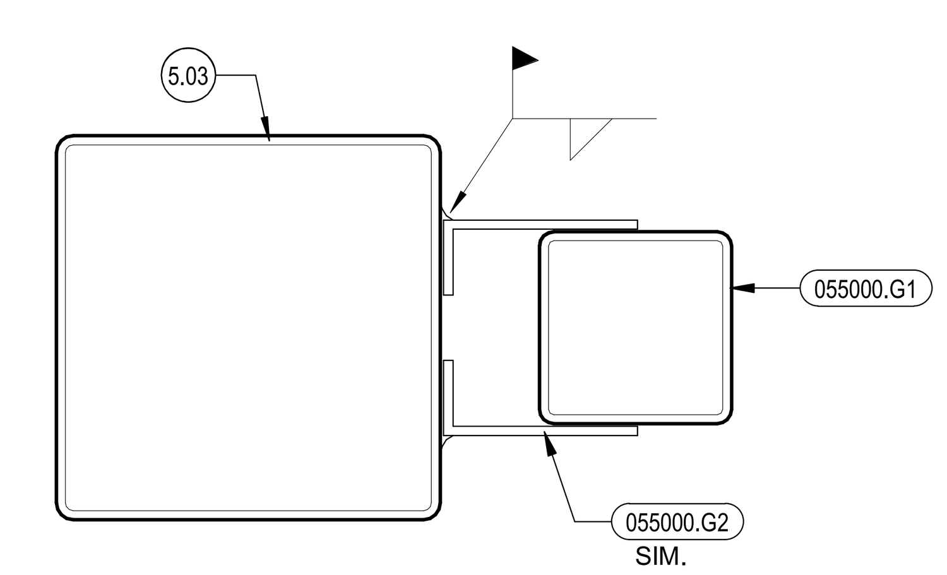
6 DOWNSPOUT DETAIL
3" = 1'-0"



B METAL WALL PANEL AT SOFFIT
12" = 1'-0"



C METAL WALL PANEL AT SOFFIT
12" = 1'-0"



7 DOWNSPOUT DETAIL
3" = 1'-0"

General Notes

1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

4.03	MASONRY COLUMN.
5.03	HSS COLUMN
5.07	STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.08	COLD-FORMED METAL SOFFIT FRAMING.
7.04	ROOFING ASSEMBLY PER PLAN.
7.09	HEAT WELD
7.12	CONTINUOUS CUT OFF MASTIC
7.15	TRIM SOFFIT OPENING WITH METAL PANEL SYSTEM STANDARD TRIMS.
7.16	PROVIDE GRID & FIELD STRAPPING AS REQUIRED BY METAL PANEL MFR. FOR NON-NAILABLE SUBSTRATE. APPLY ADHESIVE @ 24" O.C. DIRECTLY TO STRAPPING. COORDINATE HAT CHANNEL OR METAL STUDS BEHIND SHEATHING AT ALL REVEAL & ADHESIVE LOCATIONS.
7.17	PRE-FINISHED REGLET LET-IN AT FIRST MORTAR JOINT ABOVE ROOF. COLOR AS SELECTED BY ARCHITECT.
22.06	SEE PLUMBING FOR ROOF DRAIN CONNECTION.
32.02	SEE CIVIL FOR EXTERIOR CONCRETE FLATWORK.
32.03	SEE CIVIL FOR CONNECTIO0NS TO SUB-GRADE DRAINAGE SYSTEM.

Keyed Notes

042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
054000.A2	STEEL STUD(S) 6", 16 GA. @ 16" O.C., U.N.O.
055000.G1	STEEL TUBE DOWNSPOUT, 4"X4"X1/8" STEEL TUBE, PRIME & PAINT.
055000.G2	2 1/2" X 4" X 3/16" X 3" LONG STEEL 'L' CLIPS. WELD TO DOWNSPOUTS BOTH SIDES. MINIMUM (3) EQUALLY SPACED W/ 5/8" DIA. X 3" EXP. BOLTS - PAINT.
061600.A1	SHEATHING, MISC. (TYPE AND THICKNESS INDICATED)
061600.C1	GYPSUM SHEATHING BOARD, 5/8"
072700.A1	BUILDING WRAP
072700.B1	FLEXIBLE FLASHING
074213.A1	METAL WALL PANEL(S)
074213.B1	METAL WALL PANEL TRIM
074213.S1	SILICONE SEALANT PER MFR.
074243.A1	FIBER CEMENT SIDING PANELS.
074243.B1	STARTER CLIP
075423.B1	ADHERED SINGLE-PLY MEMBRANE FLASHING
075423.B2	SA STRIPPING
075423.C2	TYPICAL PERIMETER FASTENERS
075423.K1	TERMINATION BAR
076200.B1	CONTINUOUS CLEAT, 20 GA. GAVL. FASTEN AT MIN. 12" O.C.
076200.C2	PRE-FINISHED METAL FLASHING, 24 GA.
076200.C4	PRE-FINISHED METAL FASCIA, 24 GA.
076200.C6	2-PIECE PRE-FINISHED 24 GA. MASONRY REGLET & COUNTERFLASHING ASSEMBLY., LET-IN
076200.G1	BASE FLASHING, 26 GA. GALV.
079200.B1	ONE PART URETHANE SEALANT

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#	Revisions Description	Date

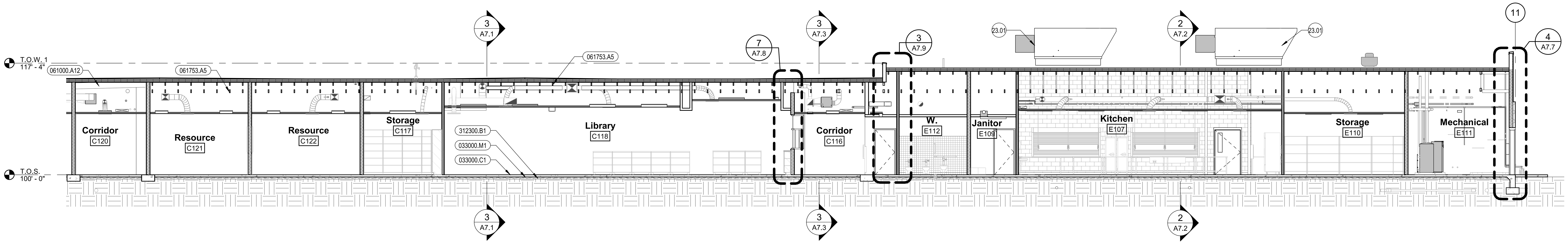
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

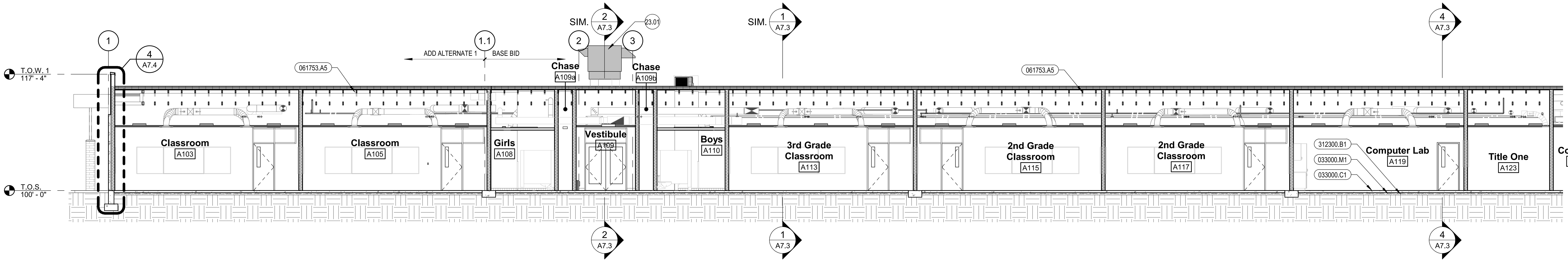
DRAWN BY: Author
CHECKED BY: Checker

BID SET

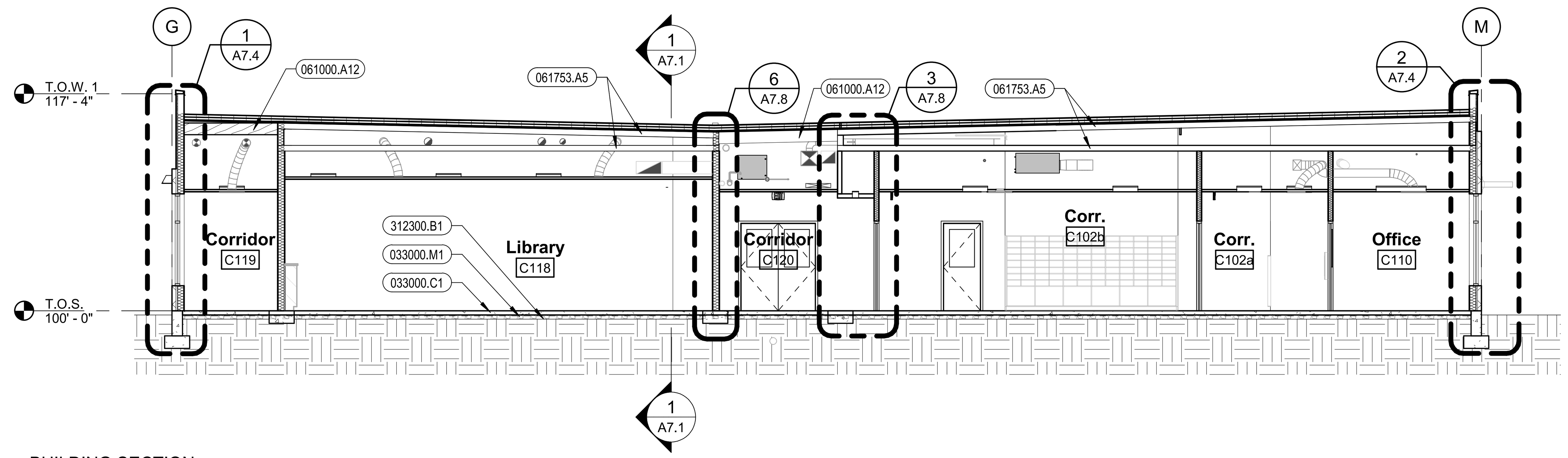
DRAWING NO.:
A6.5
ROOF DETAILS



1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIREMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NO SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.M1	VAPOR RETARDER
061000.A12	WOOD STUD(S) 2X12 @ 16" O.C., U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

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Revisions

#	Description	Date

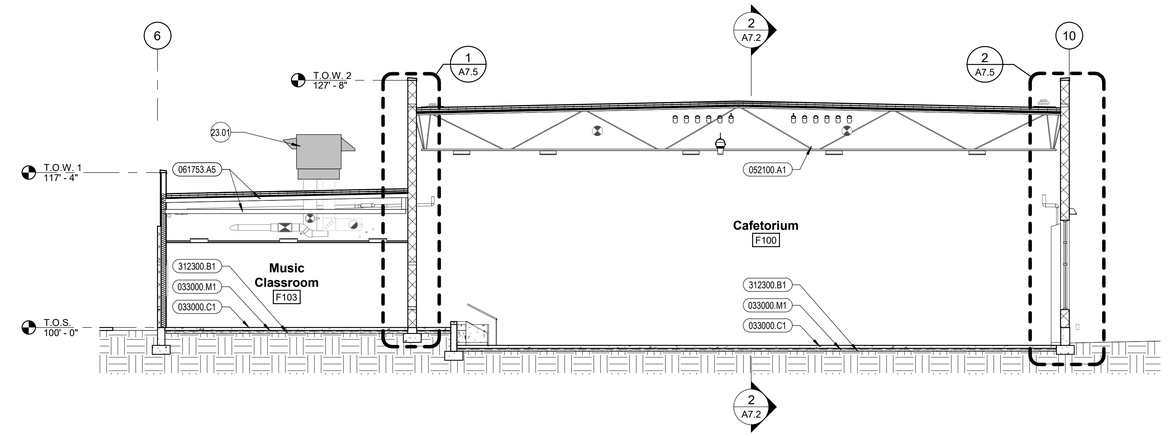
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

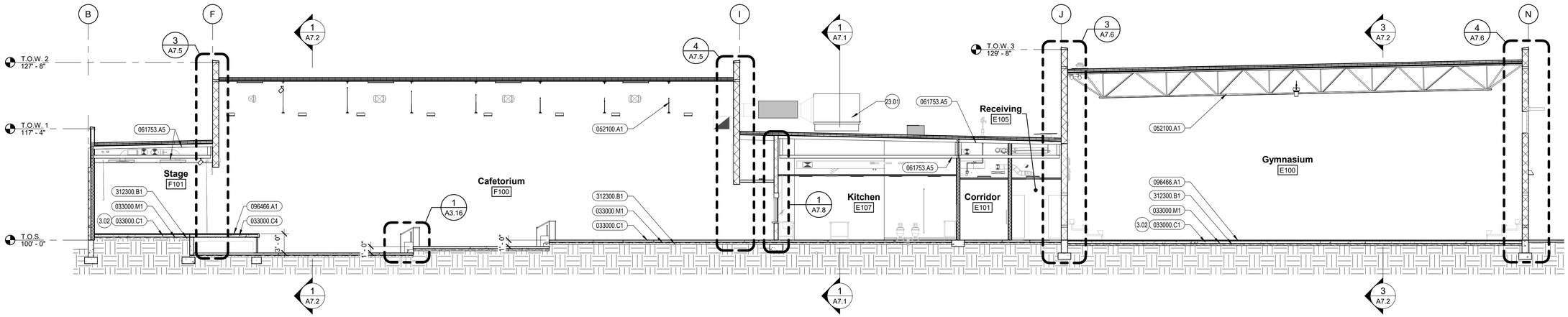
DRAWN BY: KB
CHECKED BY: BT

BID SET

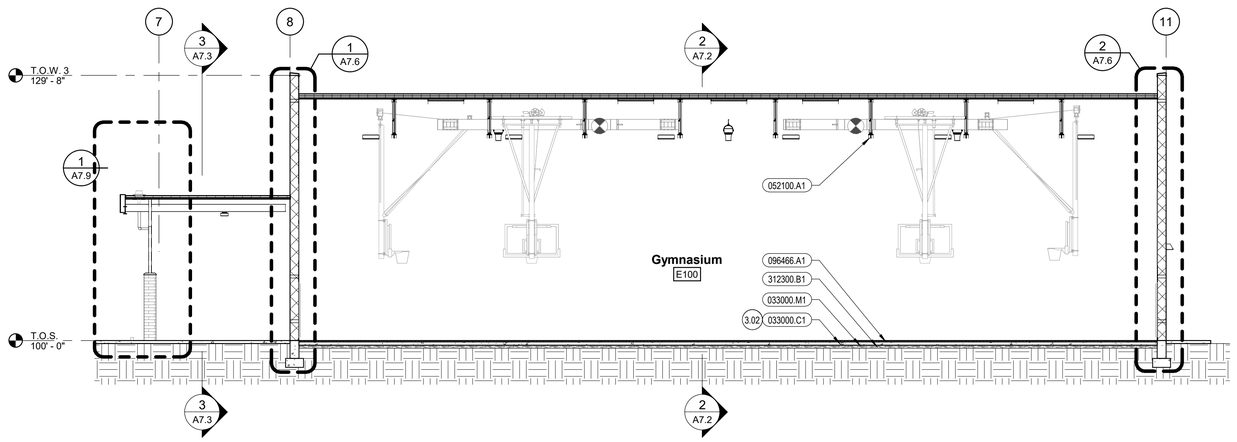
DRAWING NO.:
A7.1
BUILDING SECTIONS



1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C4	CONCRETE SLAB ON DECK.
033000.M1	VAPOR RETARDER
052100.A1	OPEN WEB STEEL ROOF JOIST(S)
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
096466.A1	HARDWOOD FLOORING, 3/4"
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIREMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NO SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

3.02	RECESSED SLAB. SEE STRUCTURAL DRAWINGS.
23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

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LICENSED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

#	Description	Date
	Revisions	

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

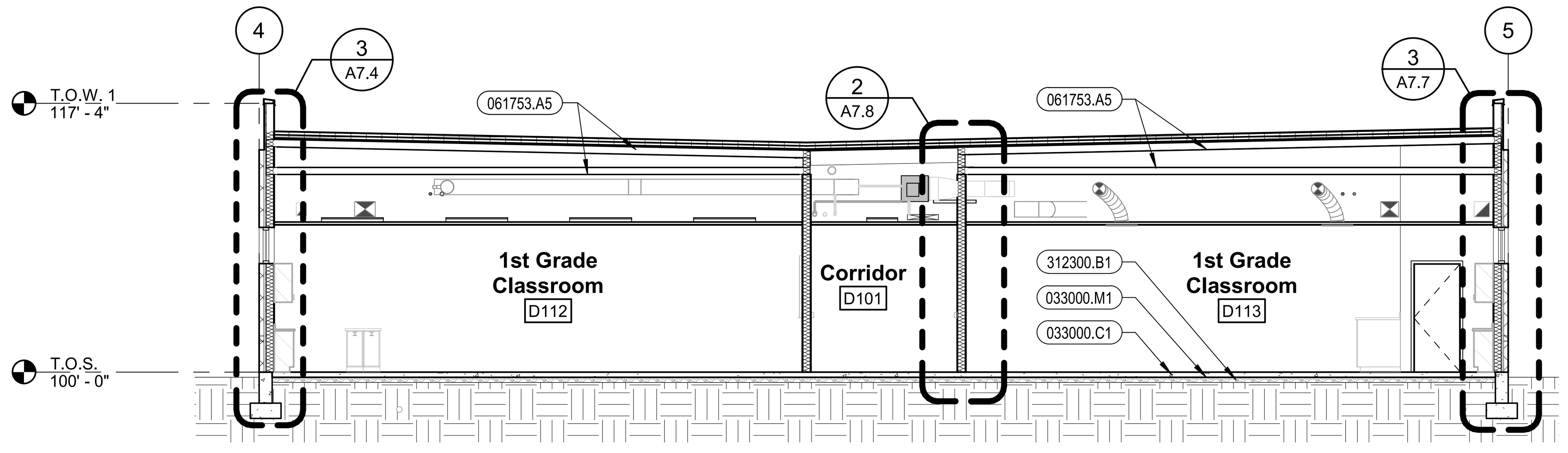
DRAWN BY: KB
CHECKED BY: BT

BID SET

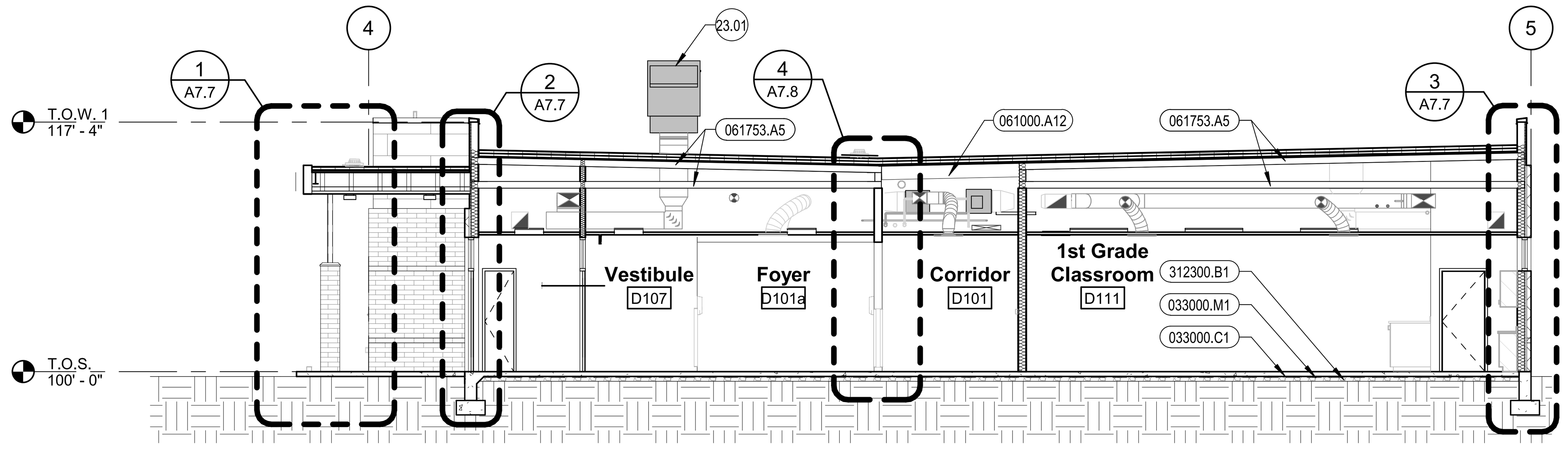
DRAWING NO.:

A7.2

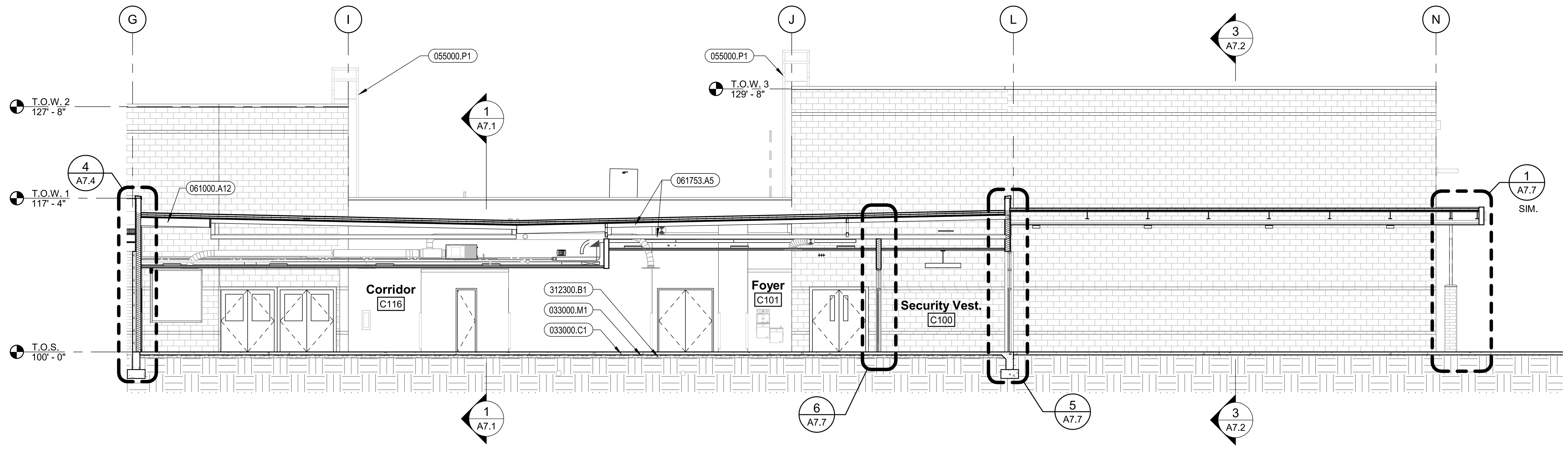
BUILDING SECTIONS



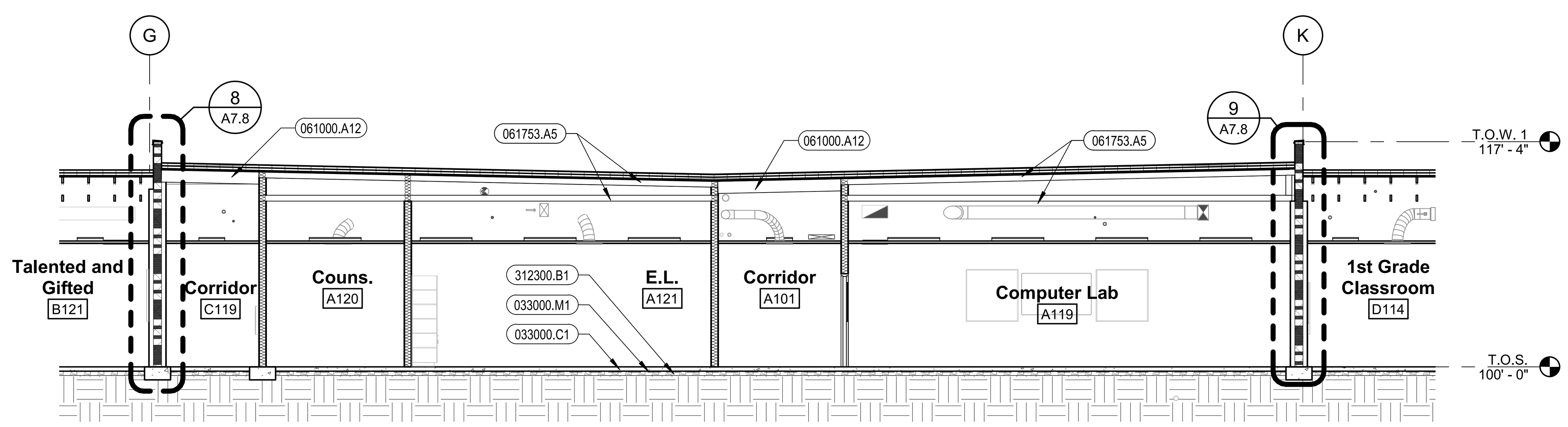
1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"



4 BUILDING SECTION
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIREMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NO SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

23.01	HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.M1	VAPOR RETARDER
055000.P1	STEEL ROOF LADDER
061000.A12	WOOD STUD(S) 2X12 @ 16" O.C., U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

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LICENSED ARCHITECT
BROOK THORNTON
AR-985153
02/11/2022
STATE OF IDAHO

Revisions

#	Description	Date

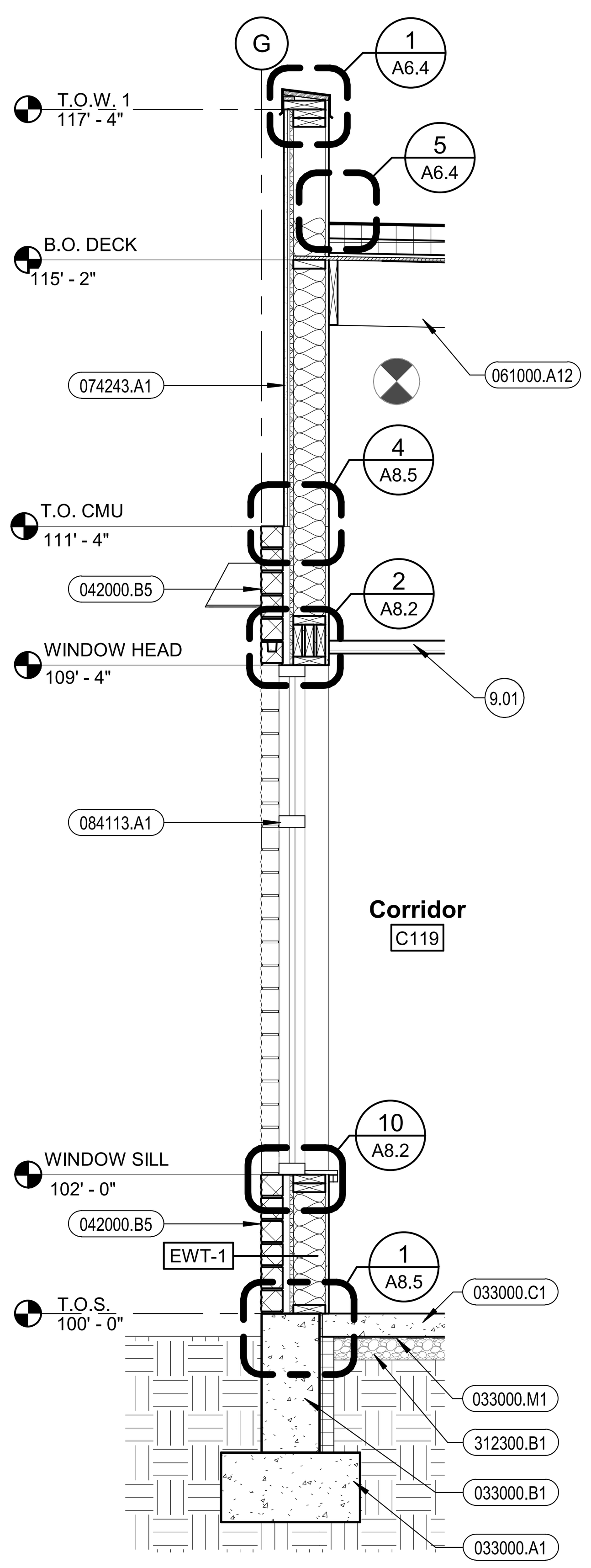
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

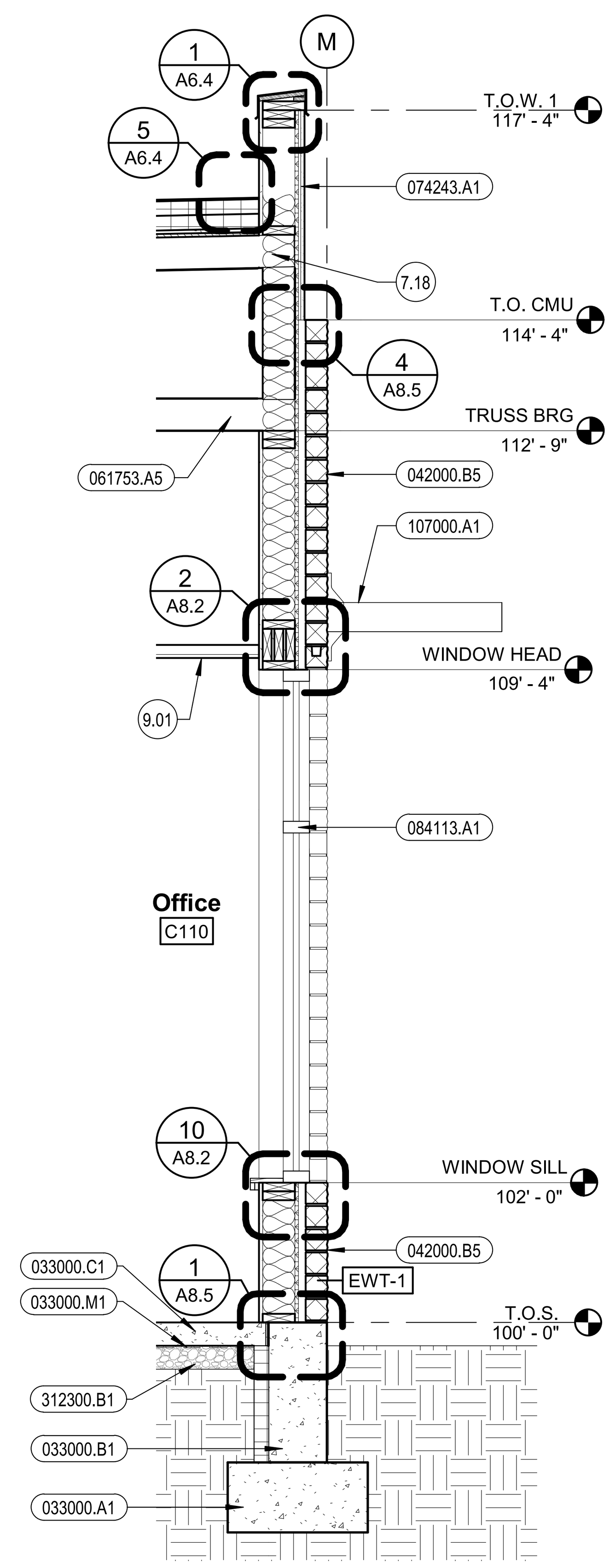
DRAWN BY: KB
CHECKED BY: BT

BID SET

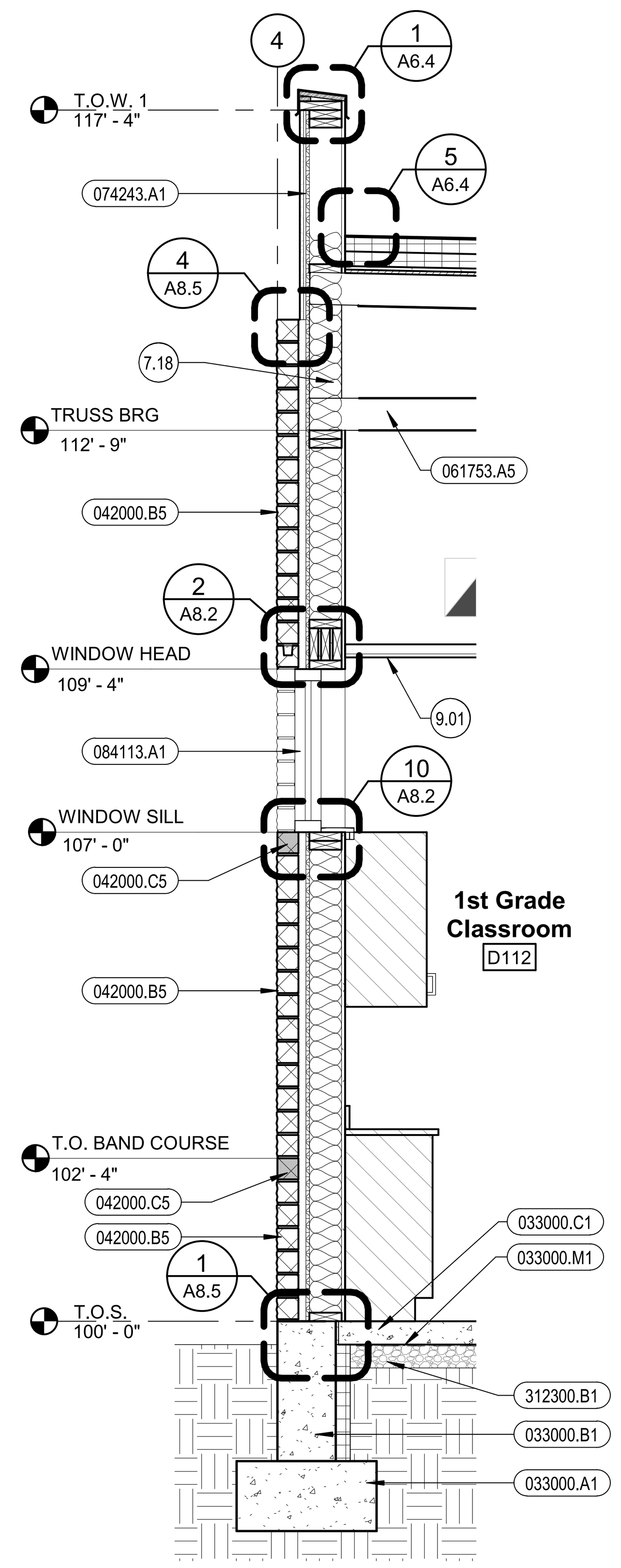
DRAWING NO.:
A7.3
BUILDING SECTIONS



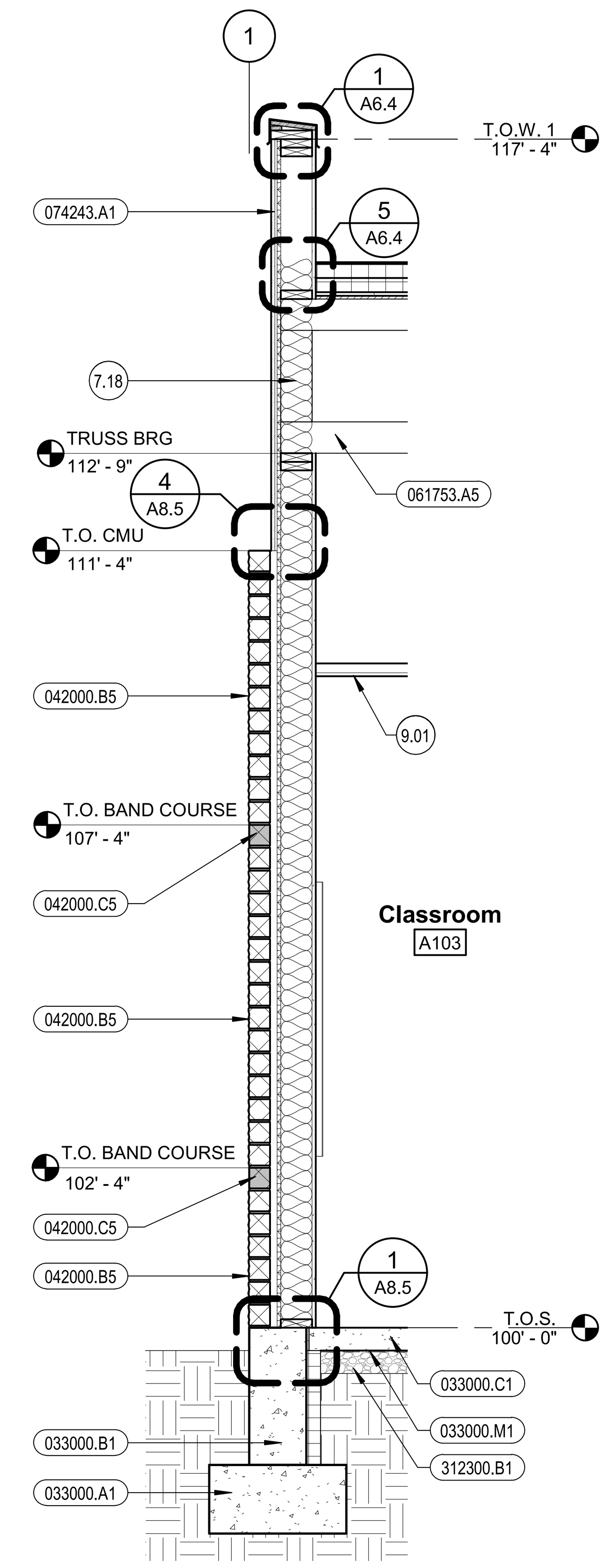
① WALL SECTION
1/2" = 1'-0"



② WALL SECTION
1/2" = 1'-0"



③ WALL SECTION
1/2" = 1'-0"



④ WALL SECTION
1/2" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIRMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NOT SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. PROVIDE 5/8" TYP 'X' GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSSES, TYP.
9. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

7.18	PROVIDE BATT INSULATION BETWEEN ALL TRUSSES.
9.01	SEE REFLECTED CEILING PLAN.

Keyed Notes

033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
061000.A12	WOOD STUD(S) 2X12 @ 16" O.C., U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
074243.A1	FIBER CEMENT SIDING PANELS.
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
107000.A1	METAL SUNSHADE ASSEMBLY
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

LKV ARCHITECTS
2400 E. Riverwalk Drive
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Revisions

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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:

A7.4

WALL SECTIONS

General Notes

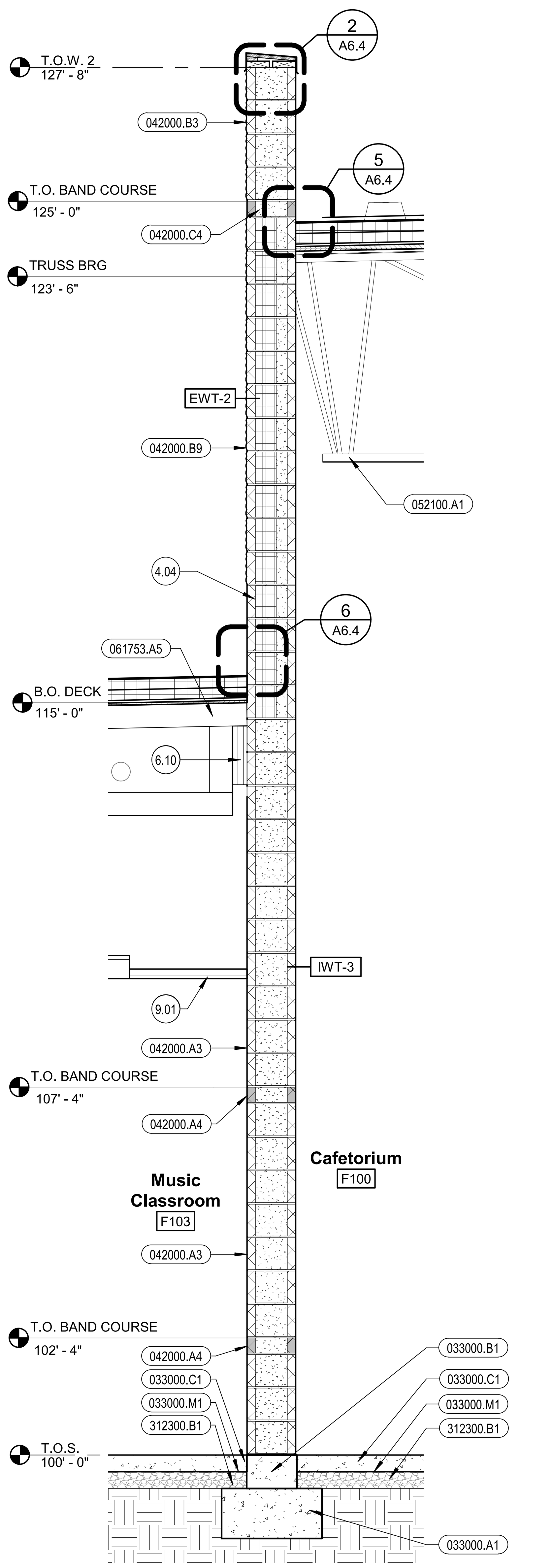
1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIRMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NOT SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. PROVIDE 5/8" TYP 'X' GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSSES, TYP.
9. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

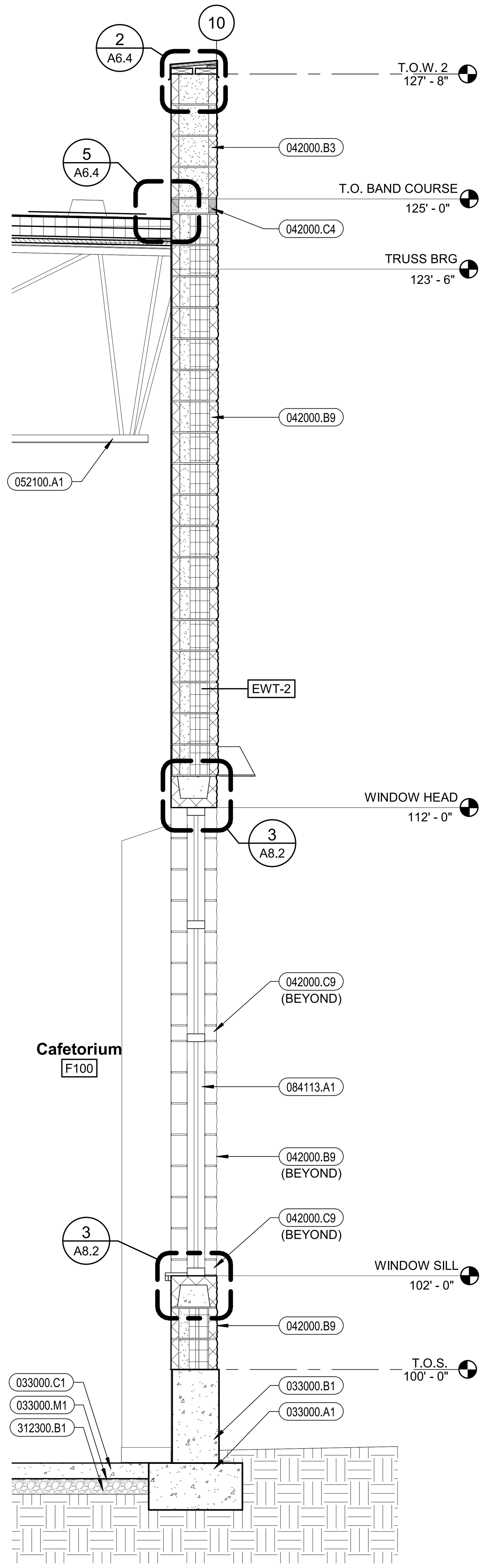
4.04	PROVIDE SMOOTH CMU OF SAME SIZE AND COLOR CONTINUOUS ALONG ALL EXTERIOR BUILDING COMPONENTS FOR WATER TIGHT AND STRUCTURAL CONNECTION POINTS.
6.10	LEDGER. SEE STRUCTURAL DRAWINGS.
9.01	SEE REFLECTED CEILING PLAN.

Keyed Notes

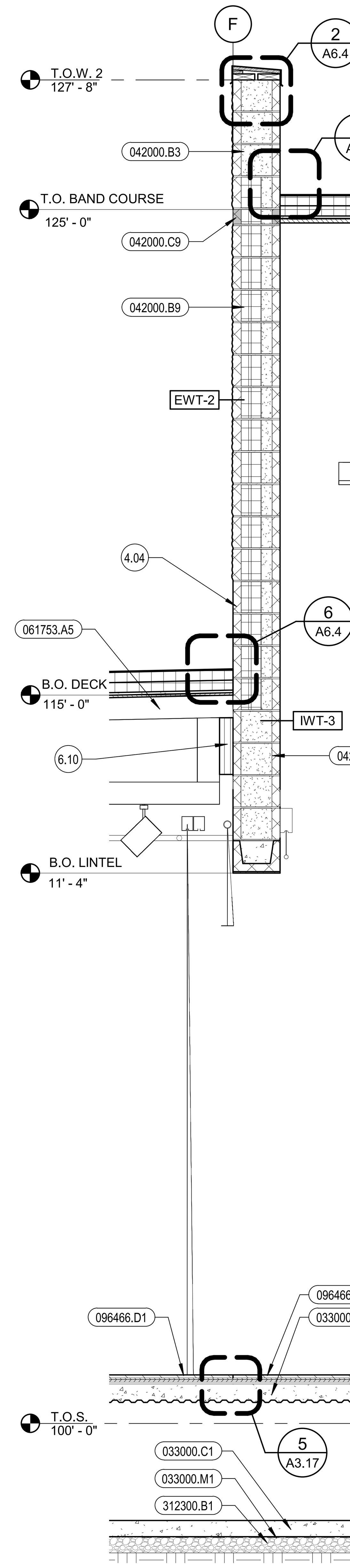
033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C4	CONCRETE SLAB ON DECK.
033000.M1	VAPOR RETARDER
042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.A4	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X4X16
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C4	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
052100.A1	OPEN WEB STEEL ROOF JOIST(S)
061000.A13	WOOD STUD(S) 2X10 @ 16" O.C., U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
096466.A1	HARDWOOD FLOORING, 3/4"
096466.D1	PLYWOOD FLOORING, 1/4"
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS



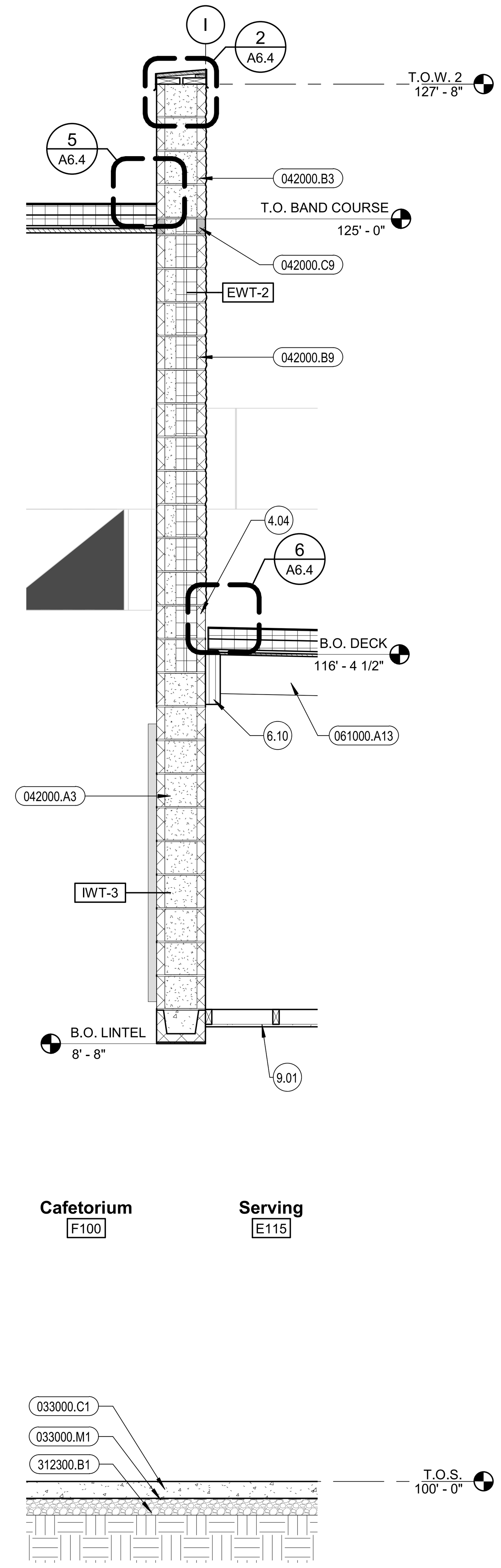
1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



4 WALL SECTION
1/2" = 1'-0"

LKV ARCHITECTS
2400 E. Riverwalk Drive
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#	Description	Date

Revisions

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

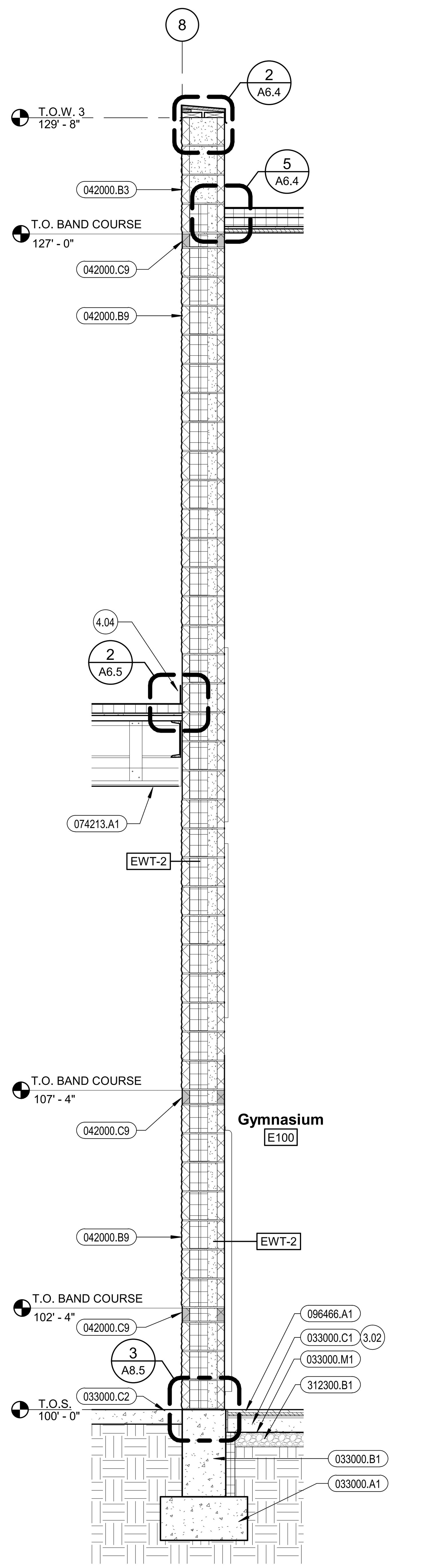
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

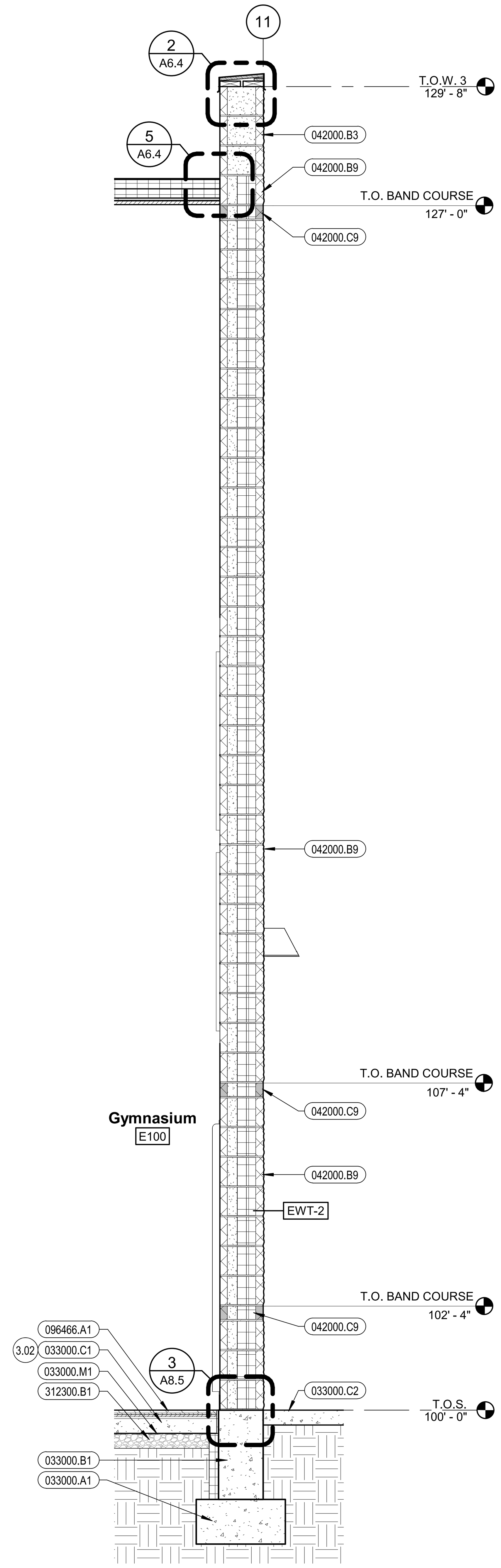
BID SET

DRAWING NO.:

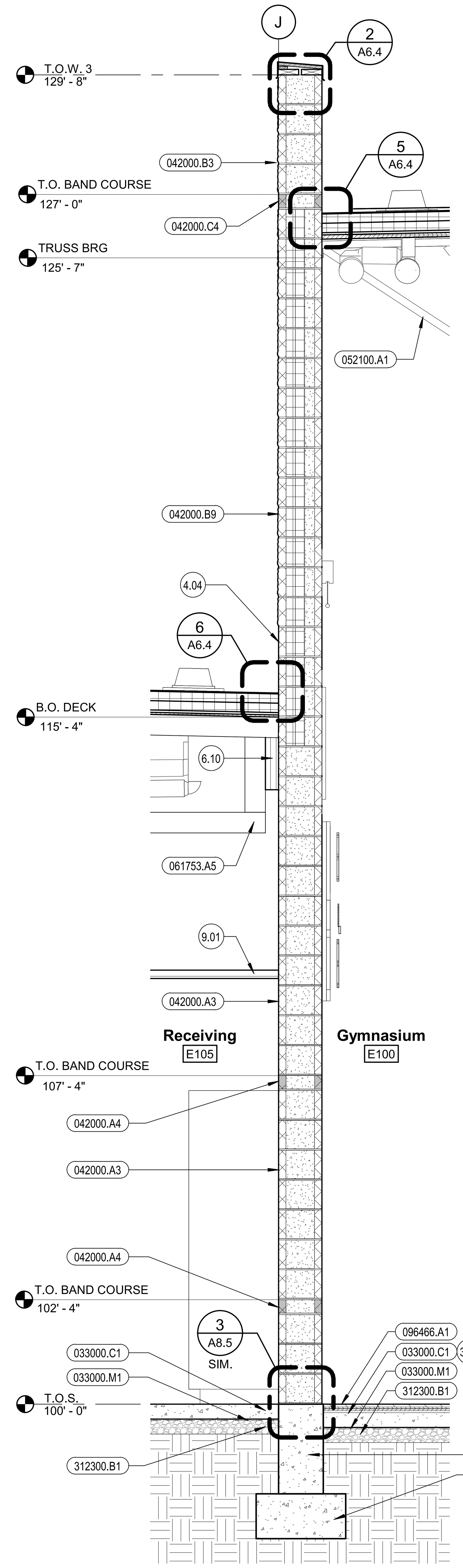
A7.5
WALL SECTIONS



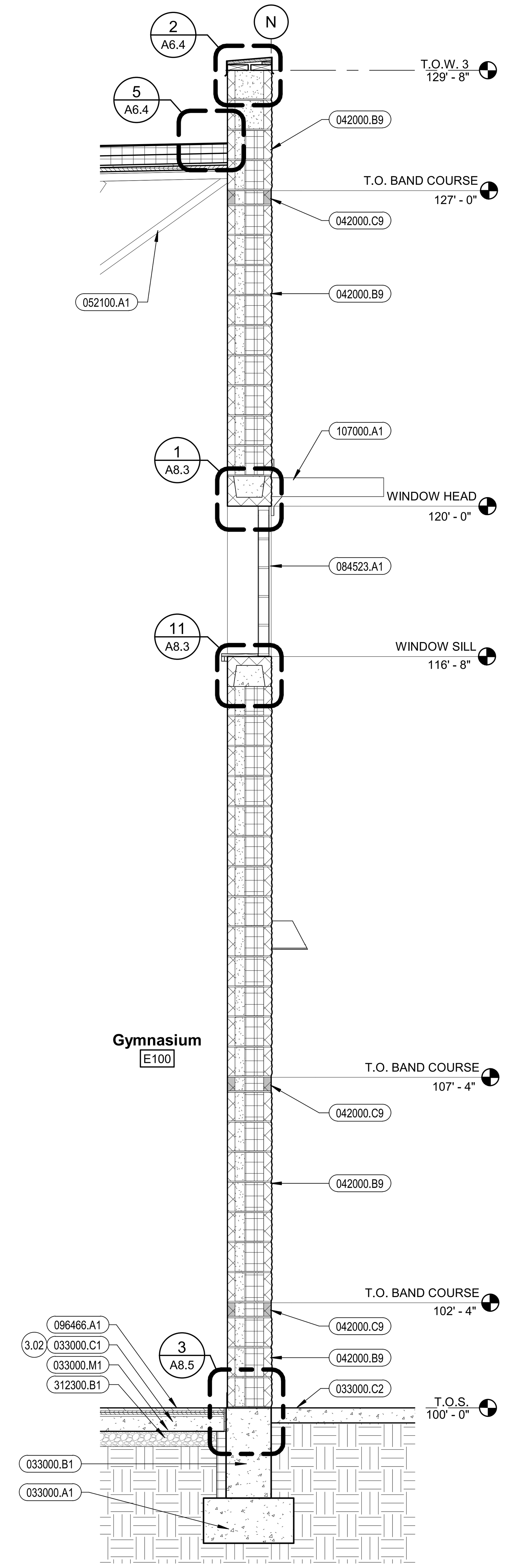
1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



4 WALL SECTION
1/2" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIRMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NOT SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. PROVIDE 5/8" TYP 'X' GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSSES, TYP.
9. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

3.02	RECESSED SLAB. SEE STRUCTURAL DRAWINGS.
4.04	PROVIDE SMOOTH CMU OF SAME SIZE AND COLOR CONTINUOUS ALONG ALL EXTERIOR BUILDING COMPONENTS FOR WATER TIGHT AND STRUCTURAL CONNECTION POINTS.
6.10	LEDGER. SEE STRUCTURAL DRAWINGS.
9.01	SEE REFLECTED CEILING PLAN.

Keyed Notes

033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C2	CONCRETE SLAB ON GRADE (EXTERIOR), 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.A4	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X4X16
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C4	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16
042000.C9	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16 (HI-R)
052100.A1	OPEN WEB STEEL ROOF JOIST(S)
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
074213.A1	METAL WALL PANEL(S)
084523.A1	FIBERGLASS - SANDWICH PANEL ASSEMBLIES
096466.A1	HARDWOOD FLOORING, 3/4"
107000.A1	METAL SUNSHADE ASSEMBLY
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

LKV ARCHITECTS
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Revisions		
#	Description	Date

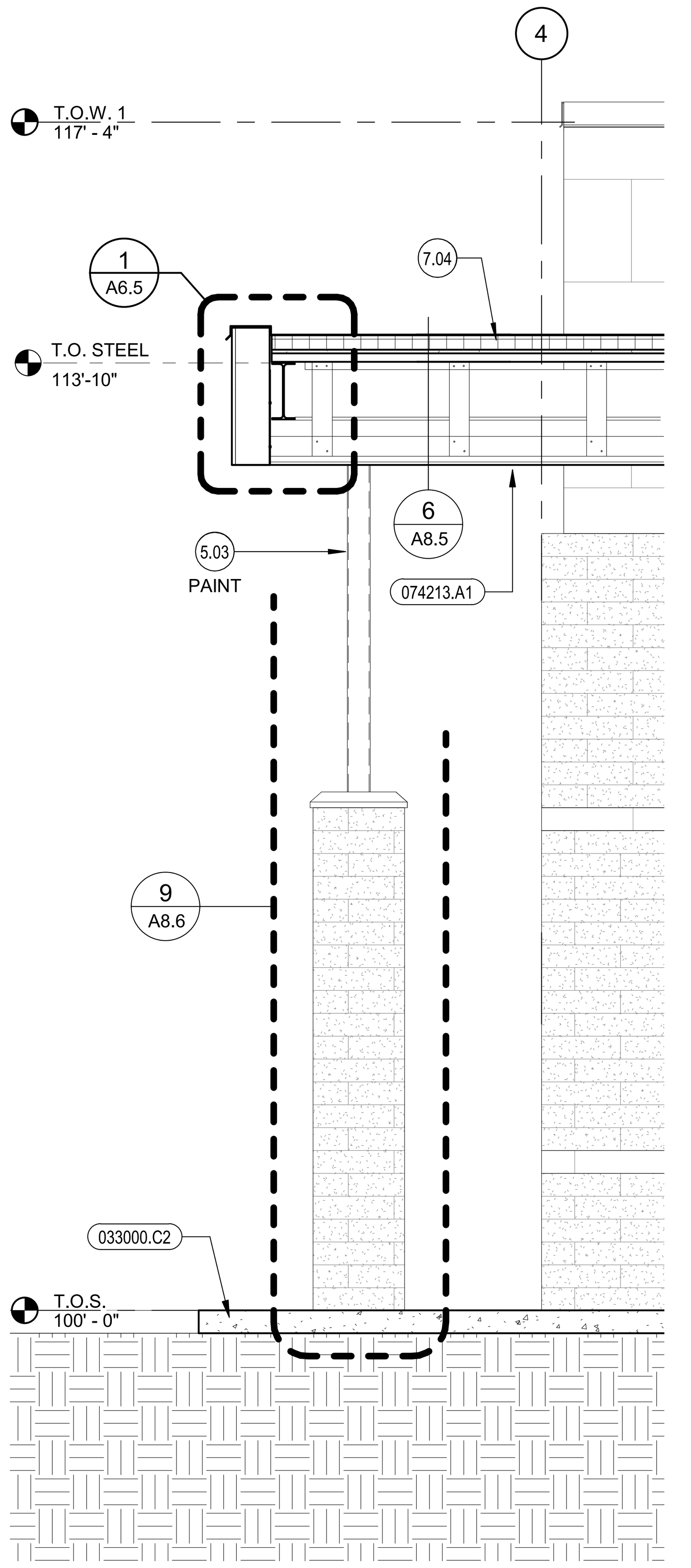
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

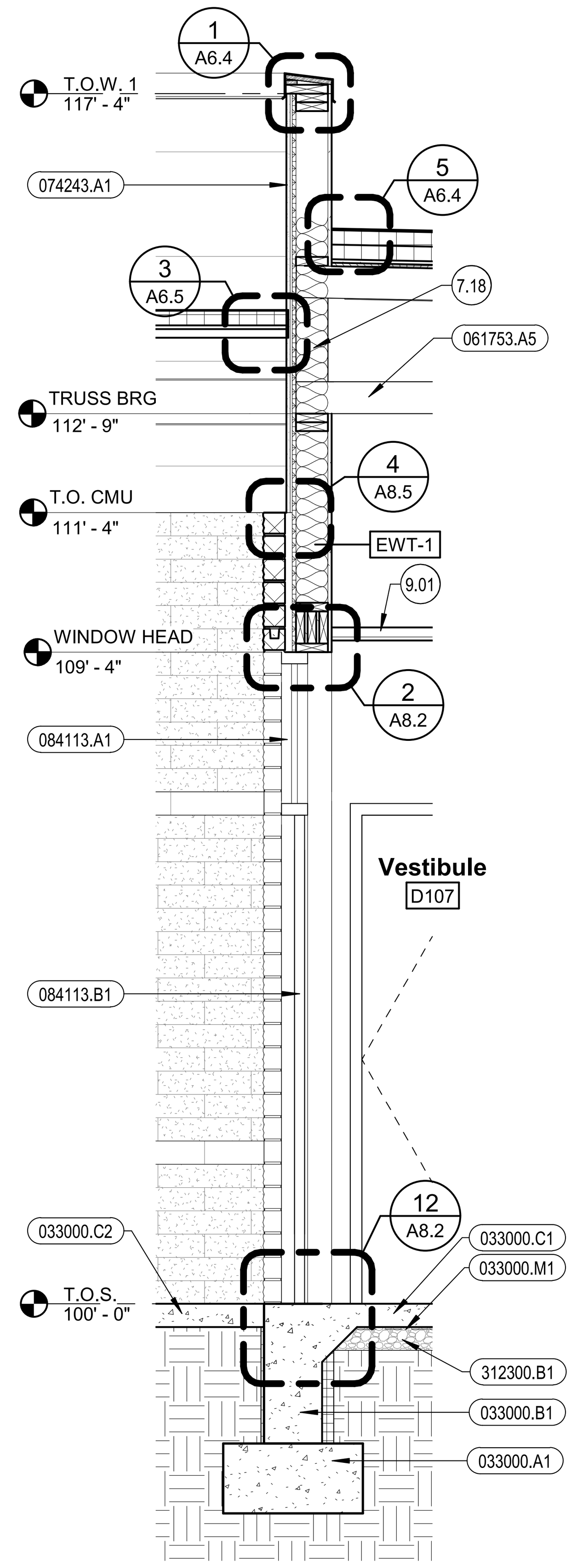
DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:
A7.6
WALL SECTIONS



1 WALL SECTION
1/2" = 1'-0"



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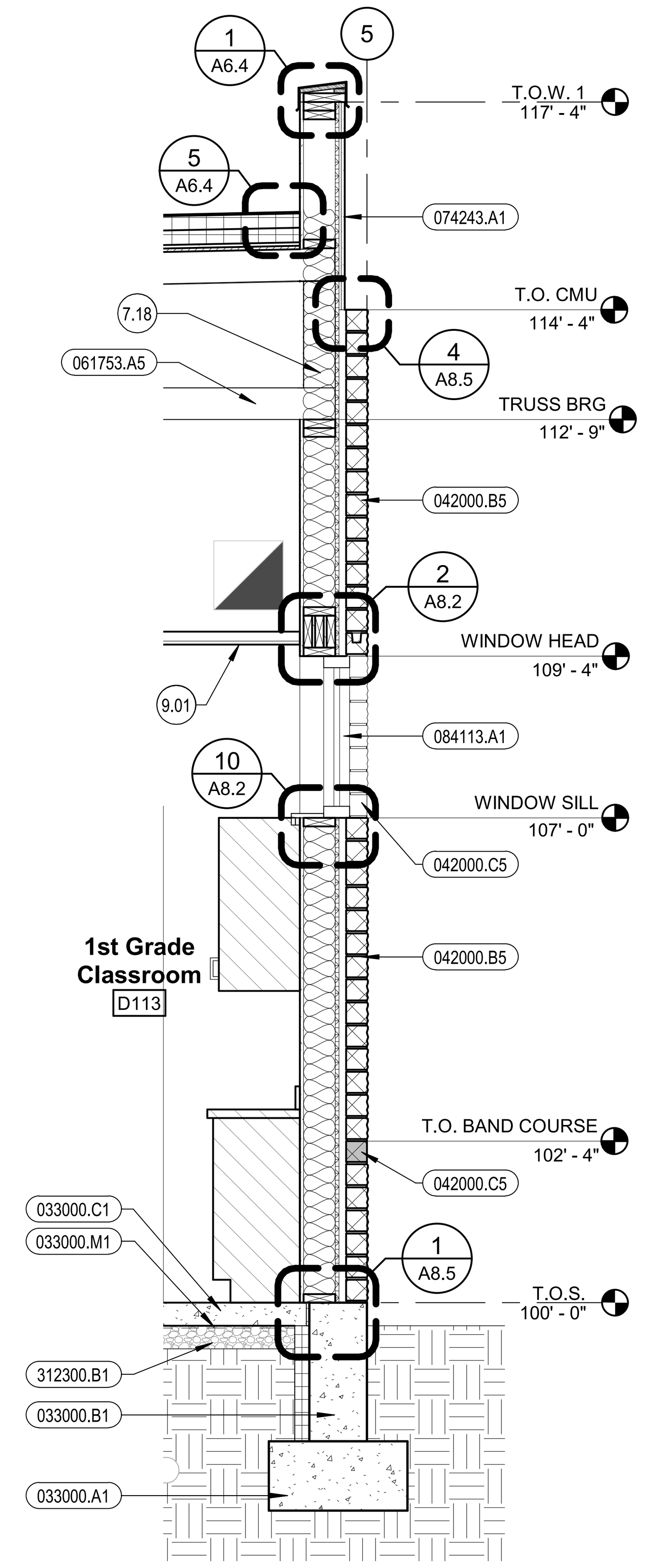
1/2" = 1'-0"



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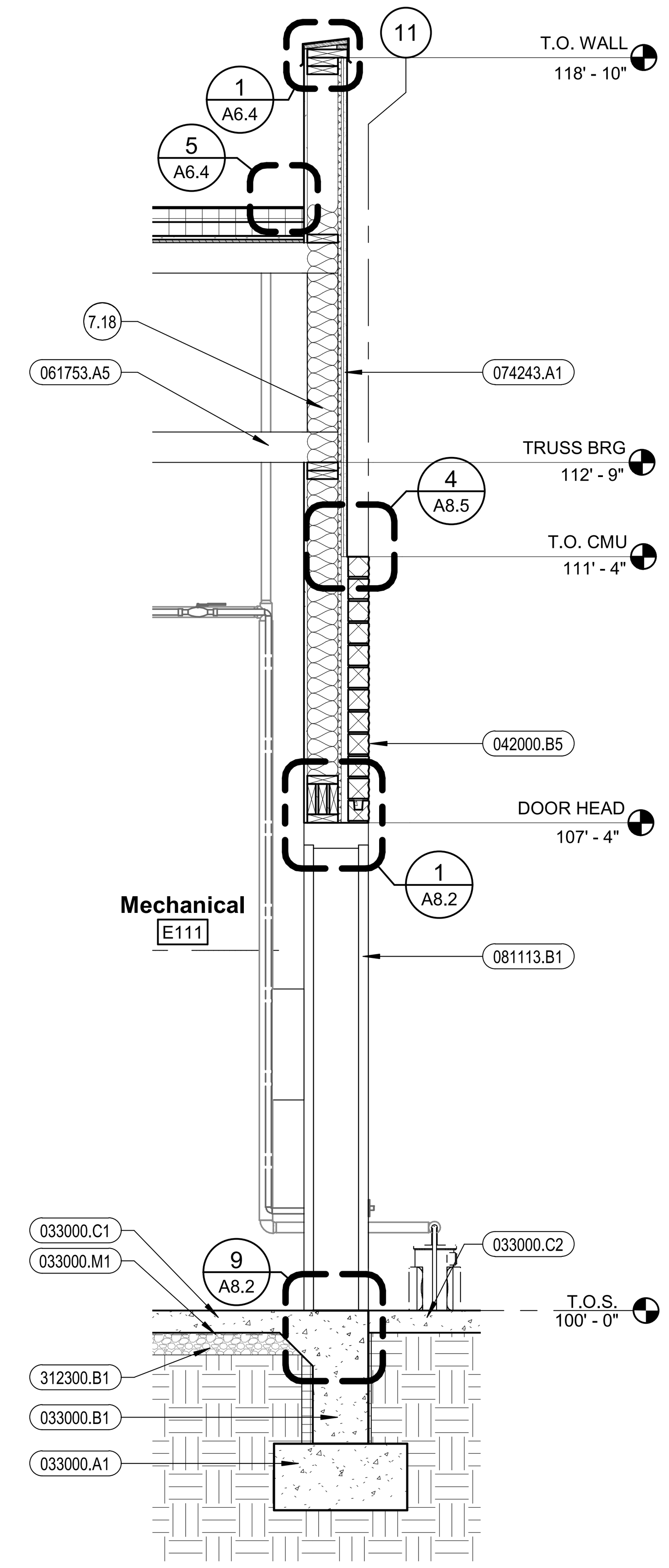
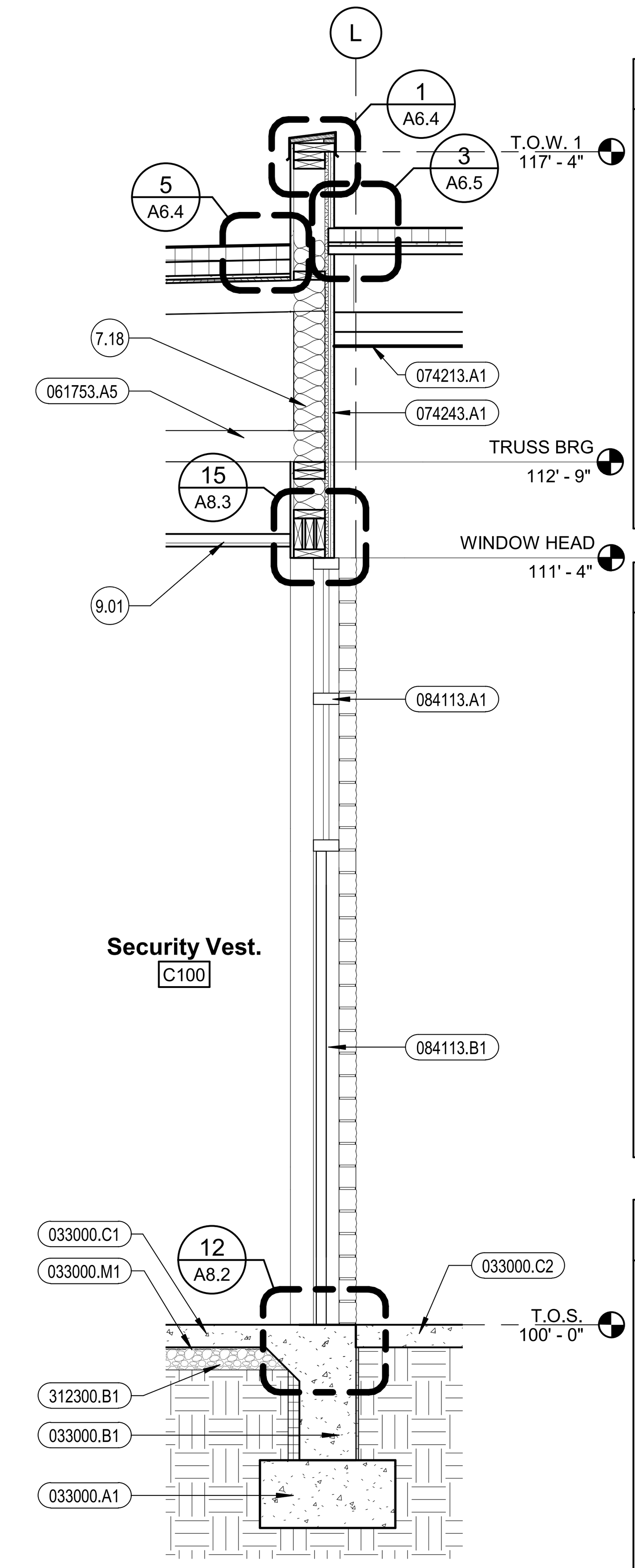


4 WALL SECTION
1/2" = 1'-0"



5 WALL SECTION
1/2" = 1'-0"

General Notes

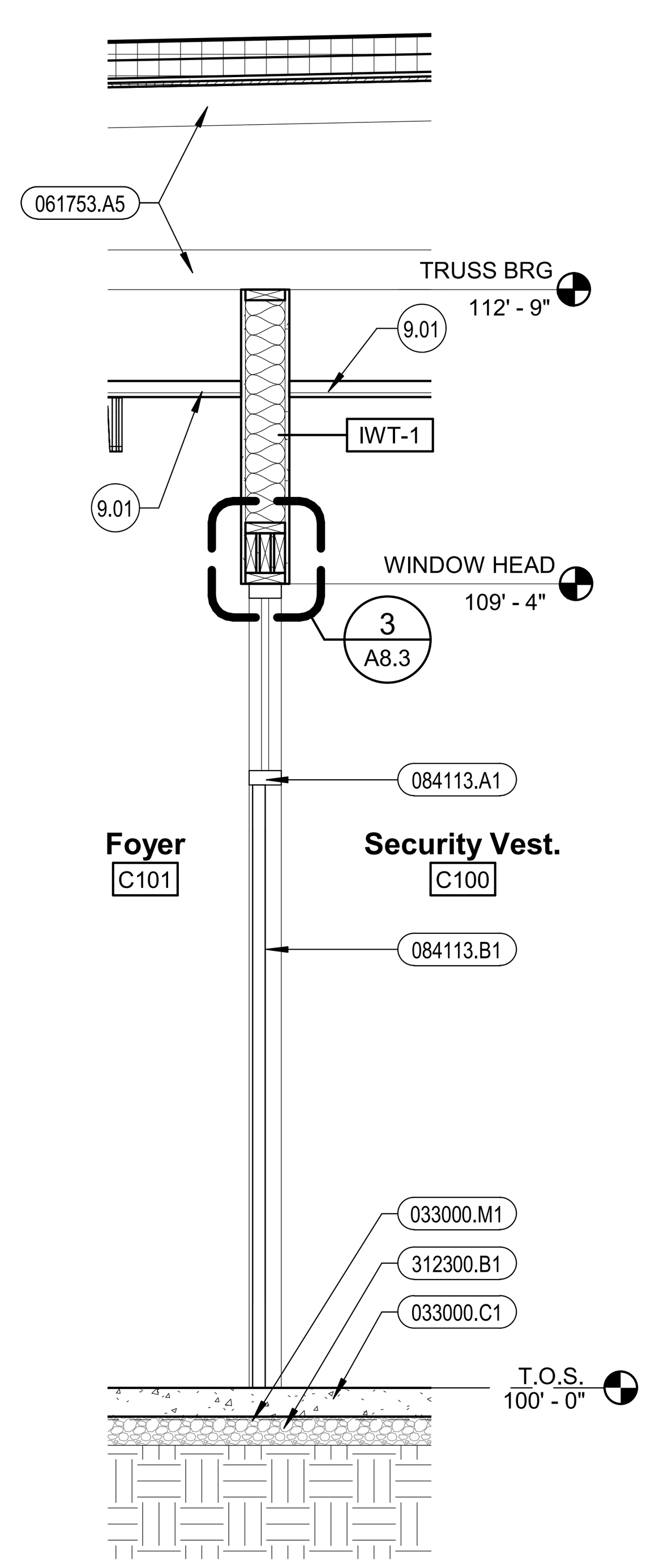
1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIRMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NOT SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. PROVIDE 5/8" TYP 'X' GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSSES, TYP.
9. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

5.03	HSS COLUMN
7.04	ROOFING ASSEMBLY PER PLAN.
7.18	PROVIDE BATT INSULATION BETWEEN ALL TRUSSES.
9.01	SEE REFLECTED CEILING PLAN.

Keyed Notes

033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C2	CONCRETE SLAB ON GRADE (EXTERIOR), 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
081113.B1	HOLLOW METAL DOOR FRAME
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS



6 WALL SECTION
1/2" = 1'-0"

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Revisions

#	Description	Date

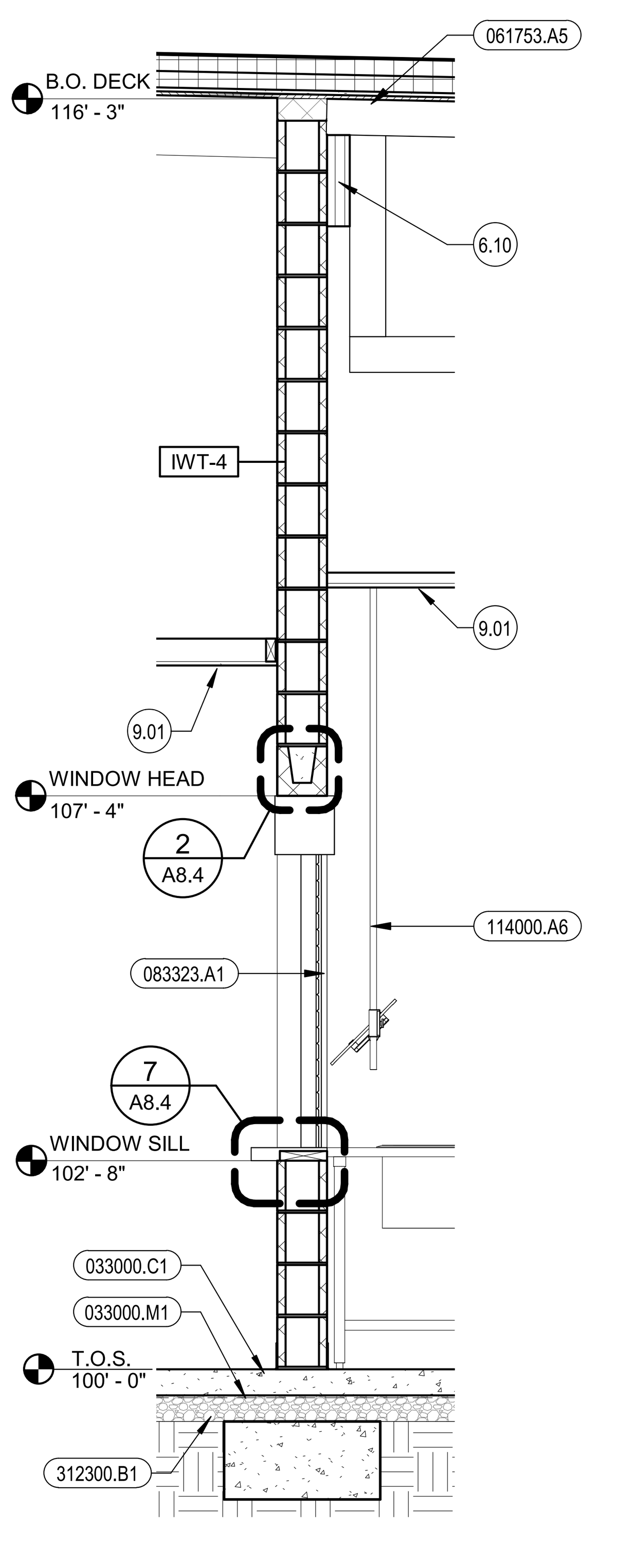
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

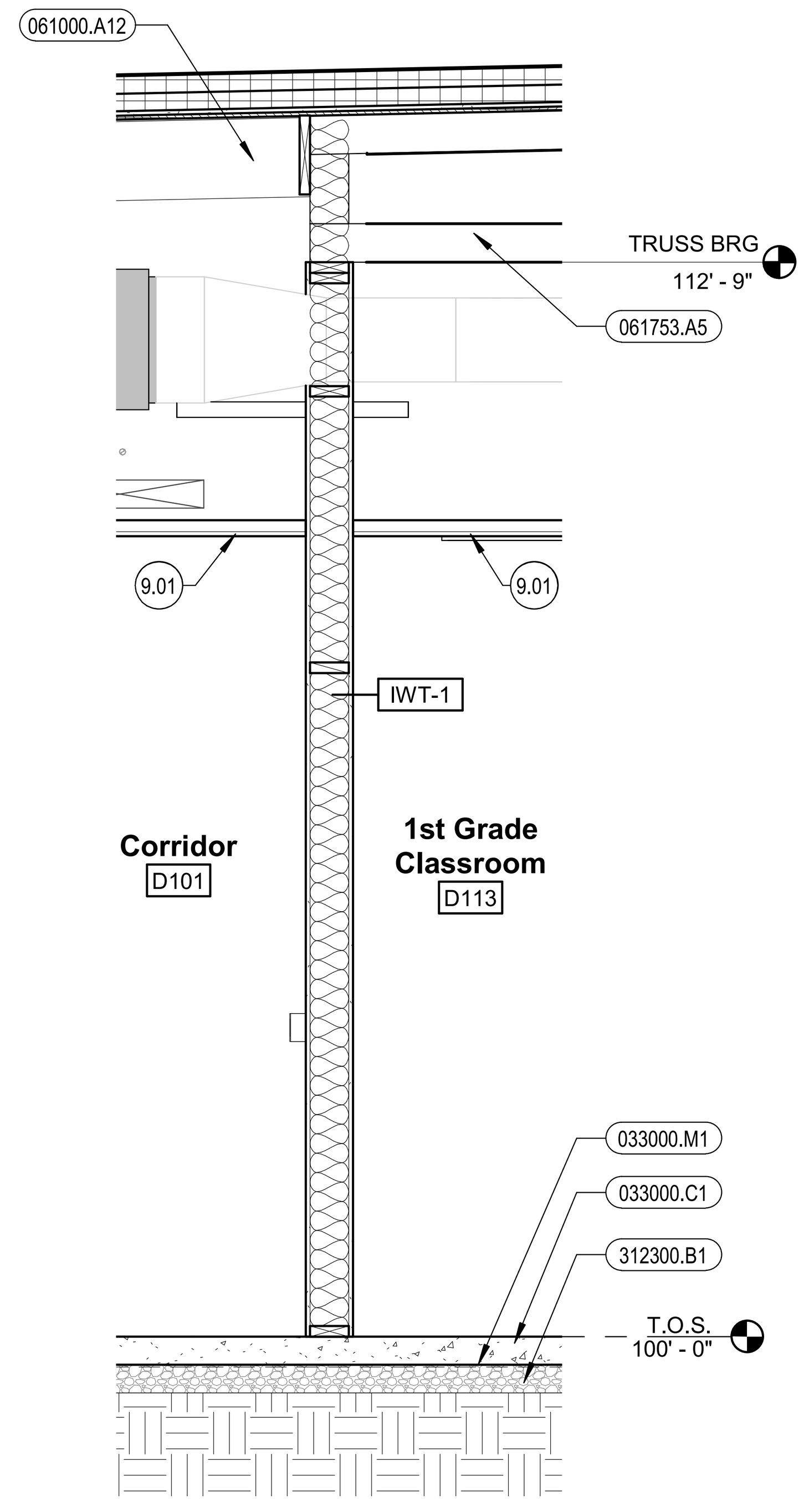
DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:
A7.7
WALL SECTIONS



1 WALL SECTION
1/2" = 1'-0"



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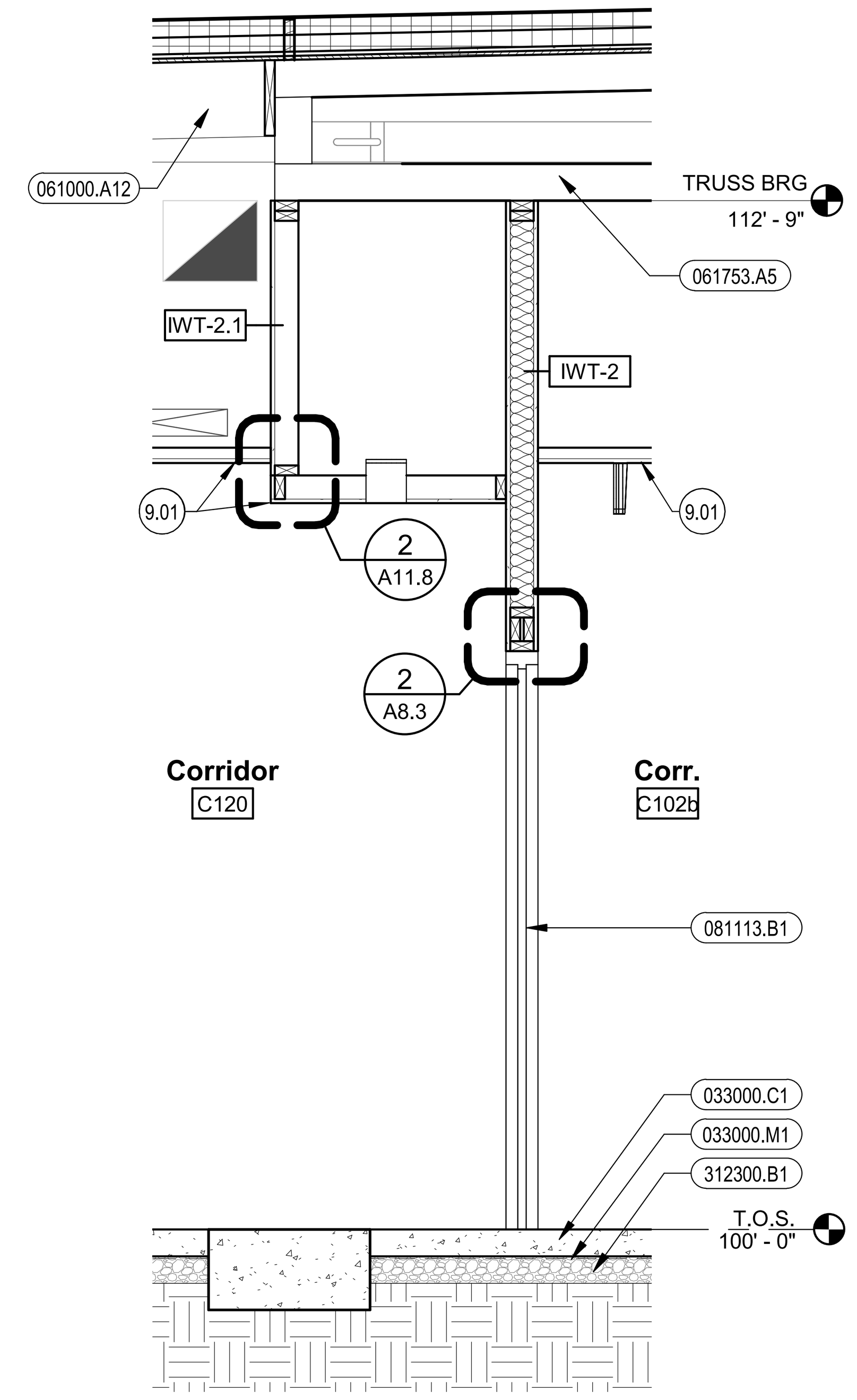
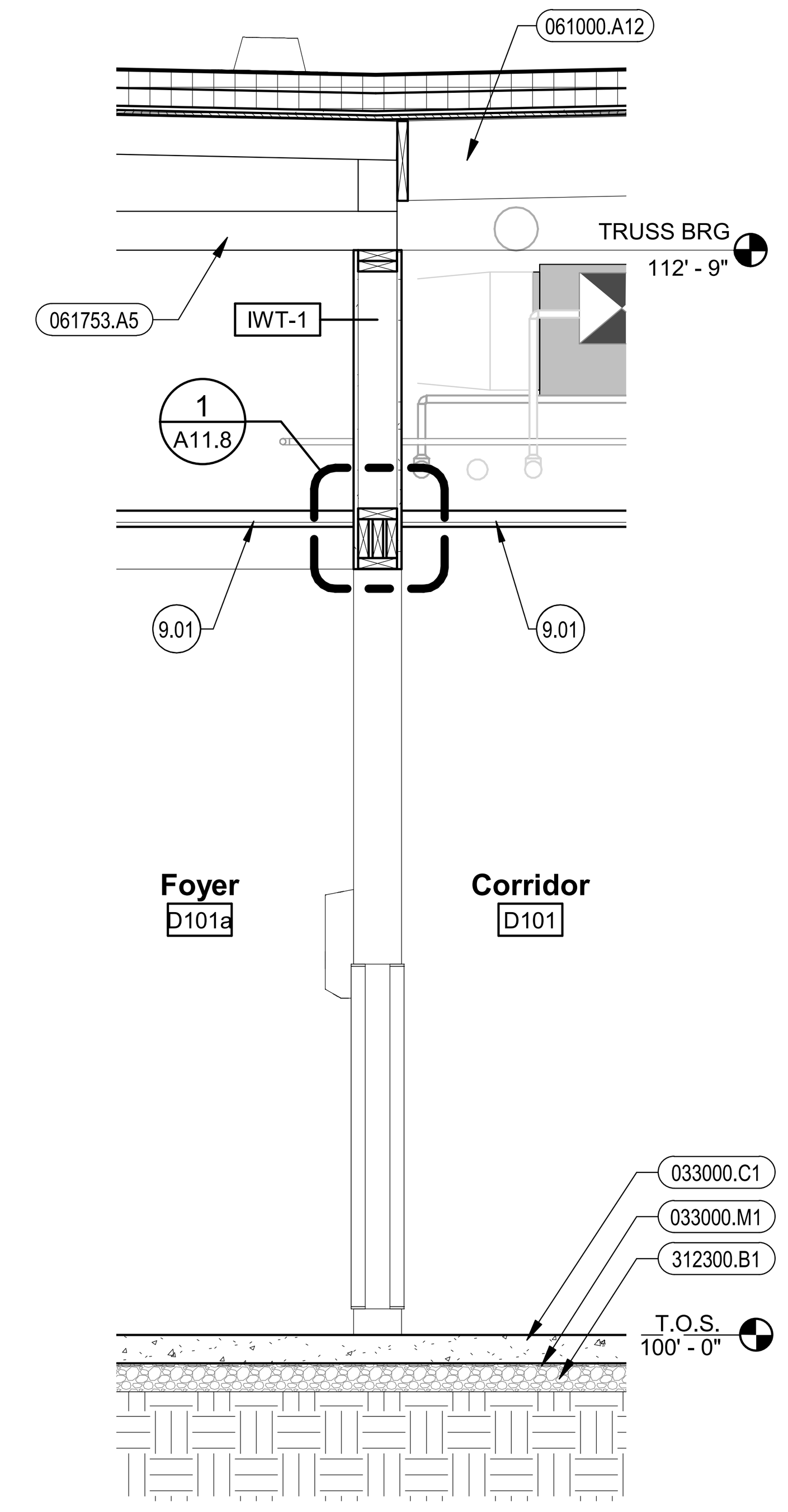
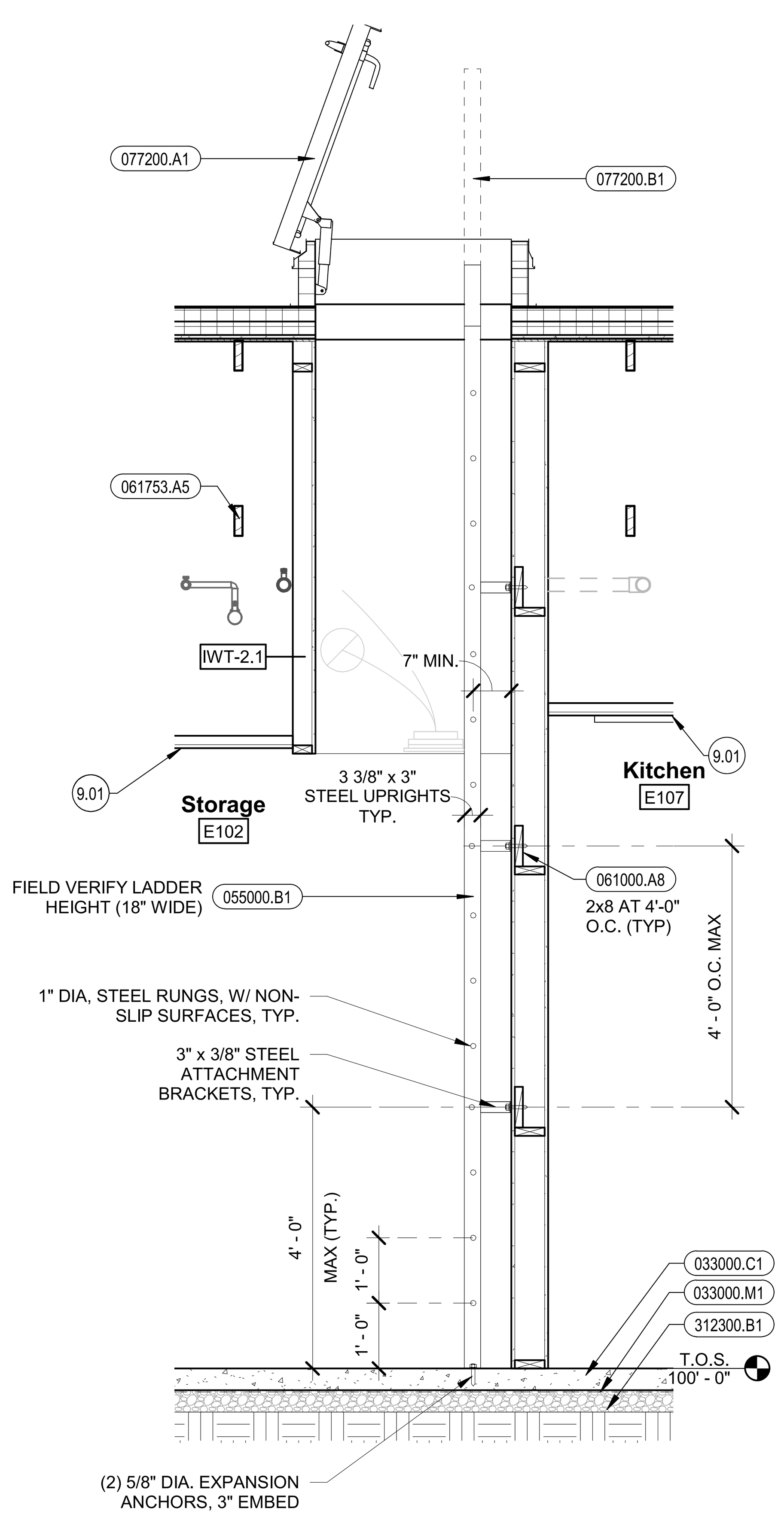
1/2" = 1'-0"



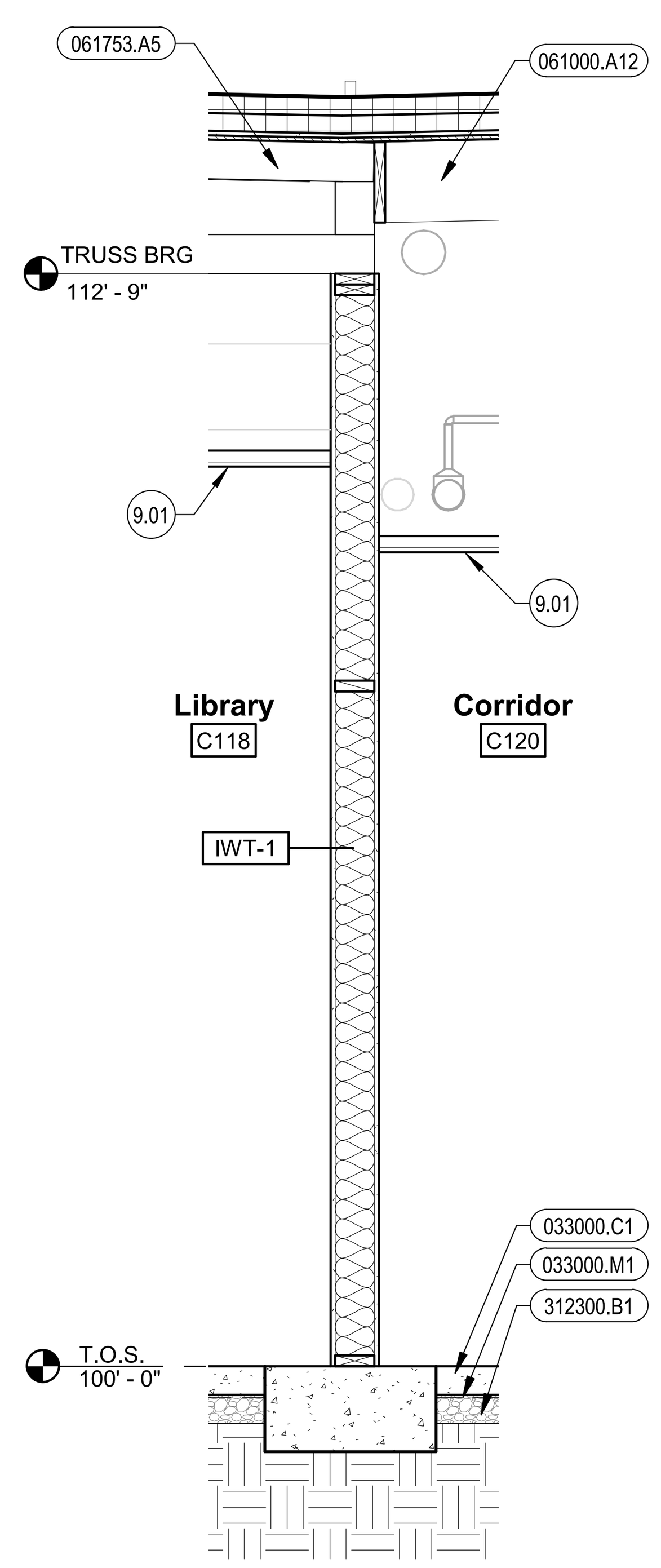
3 WALL SECTION
1/2" = 1'-0"



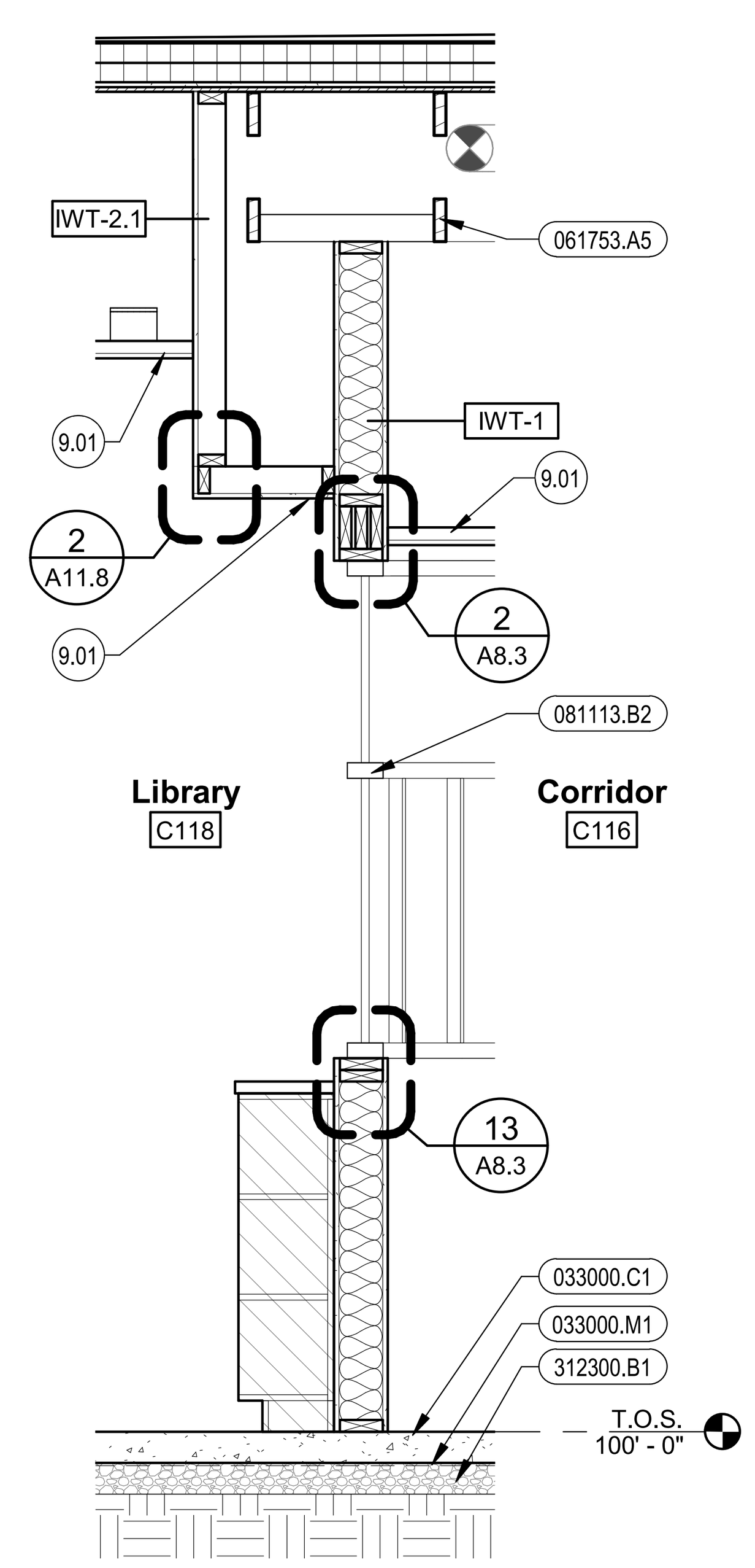
4 WALL SECTION
1/2" = 1'-0"



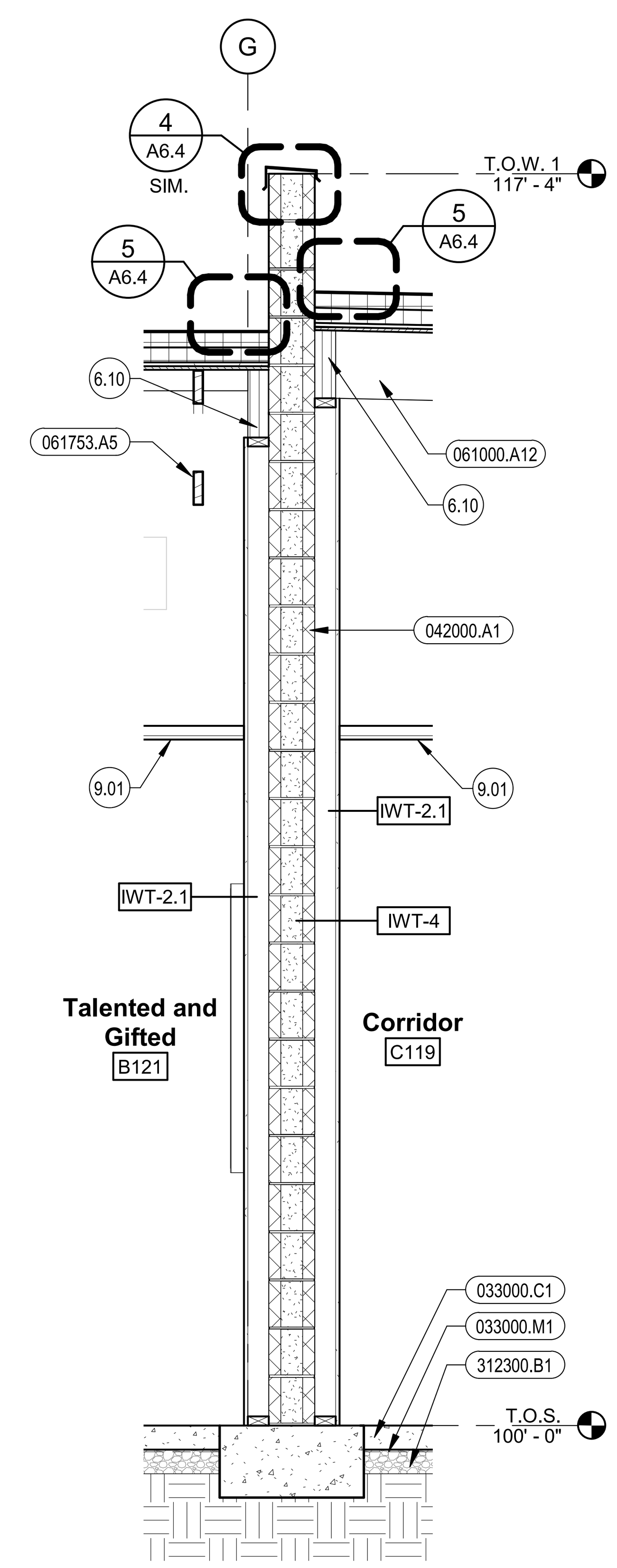
5 WALL SECTION
1/2" = 1'-0"



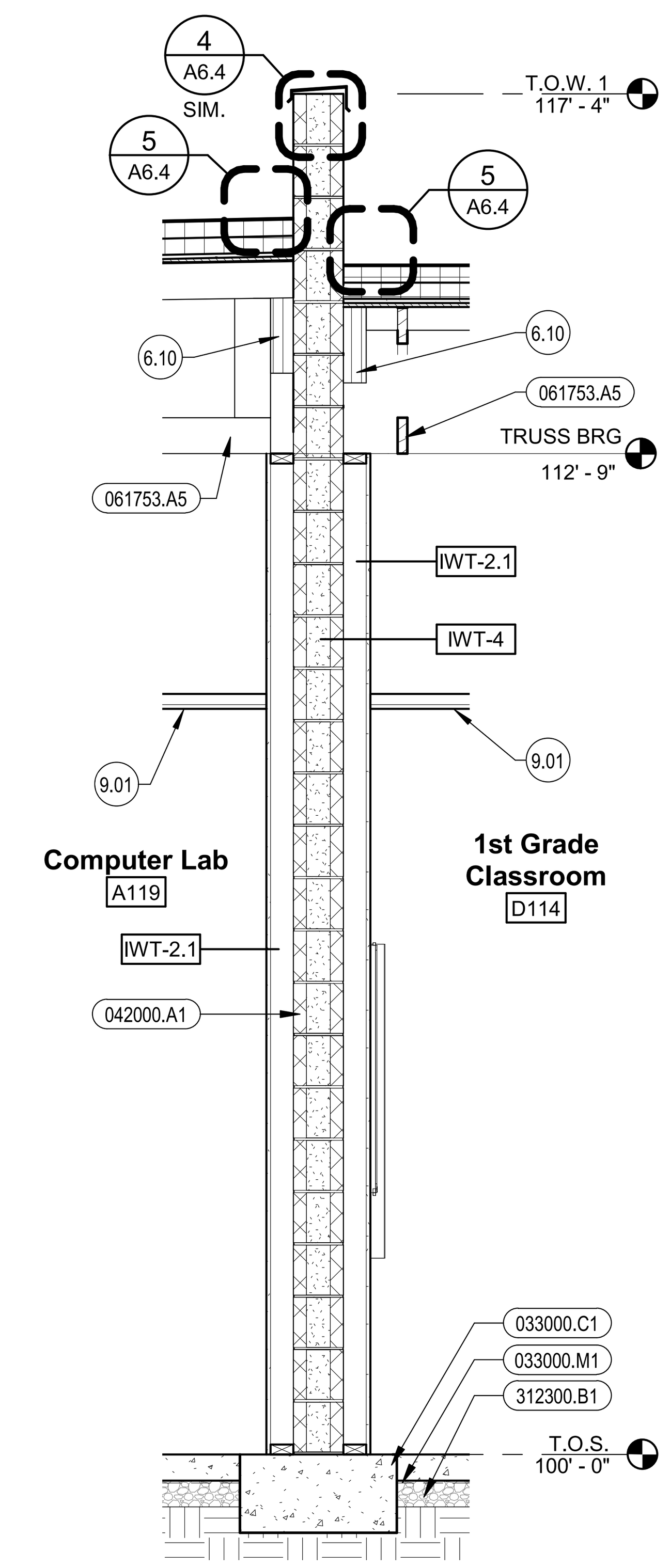
6 WALL SECTION
1/2" = 1'-0"



7 WALL SECTION
1/2" = 1'-0"



8 WALL SECTION
1/2" = 1'-0"



9 WALL SECTION
1/2" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIRMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NOT SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. PROVIDE 5/8" TYP 'X' GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSSES, TYP.
9. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

6.10	LEDGER, SEE STRUCTURAL DRAWINGS.
9.01	SEE REFLECTED CEILING PLAN.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.A1	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 8X8X16
055000.B1	STEEL LADDER
061000.A8	SOLID BLOCKING / BRIDGING
061000.A12	WOOD STUD(S) 2X12 @ 16" O.C., U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
077200.A1	PRE-FABRICATED ROOF HATCH AND CURB
077200.B1	ROOF LADDER SAFETY POST
081113.B1	HOLLOW METAL DOOR FRAME
081113.B2	HOLLOW METAL DOOR / GLAZING FRAME
083323.A1	OVERHEAD COILING DOOR
114000.A6	14 GA. STAINLESS STEEL SNEEZE GUARD
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

LKV
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Boise, Idaho 83706
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208.336.3443

#	Revisions Description	Date

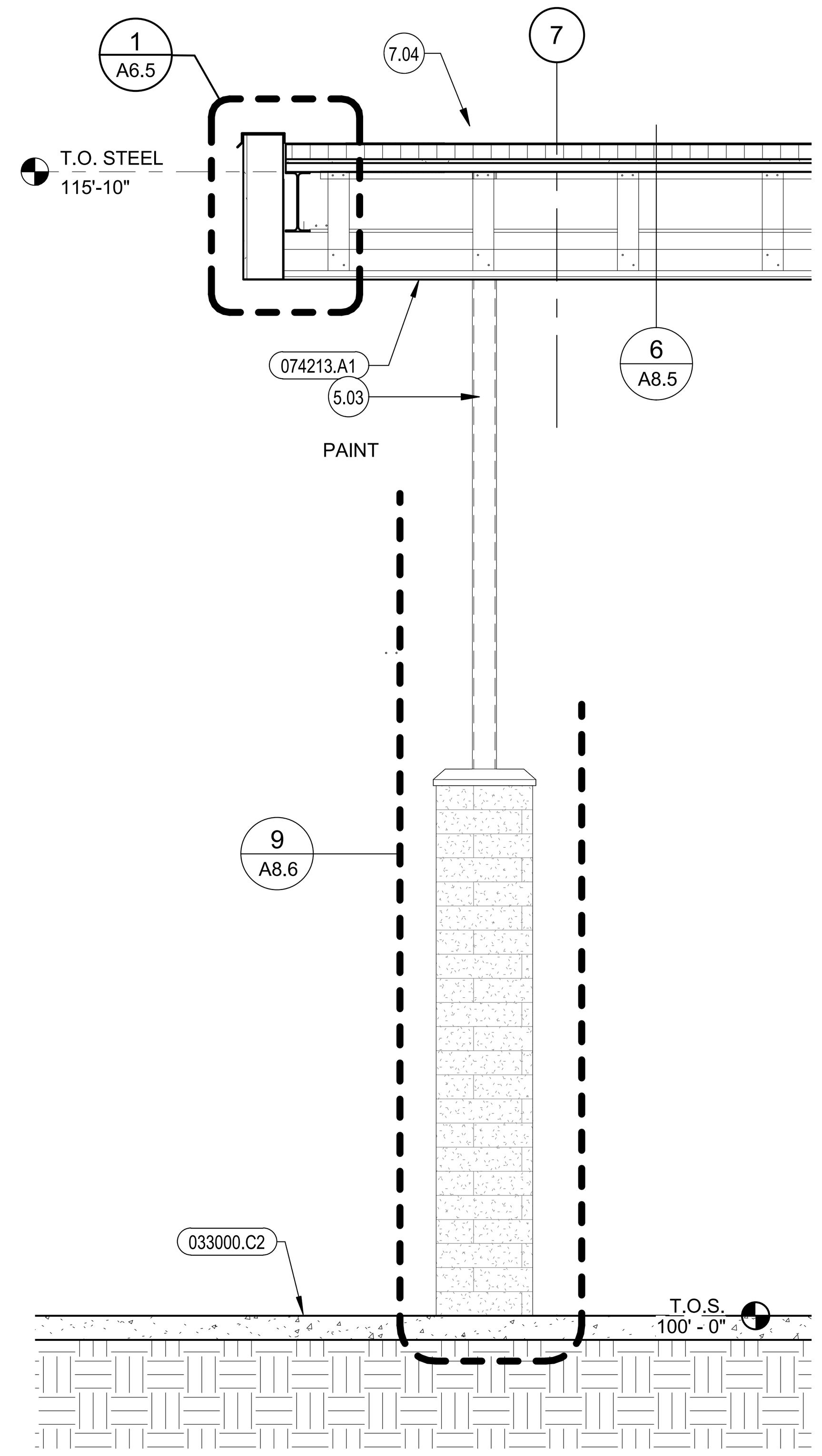
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

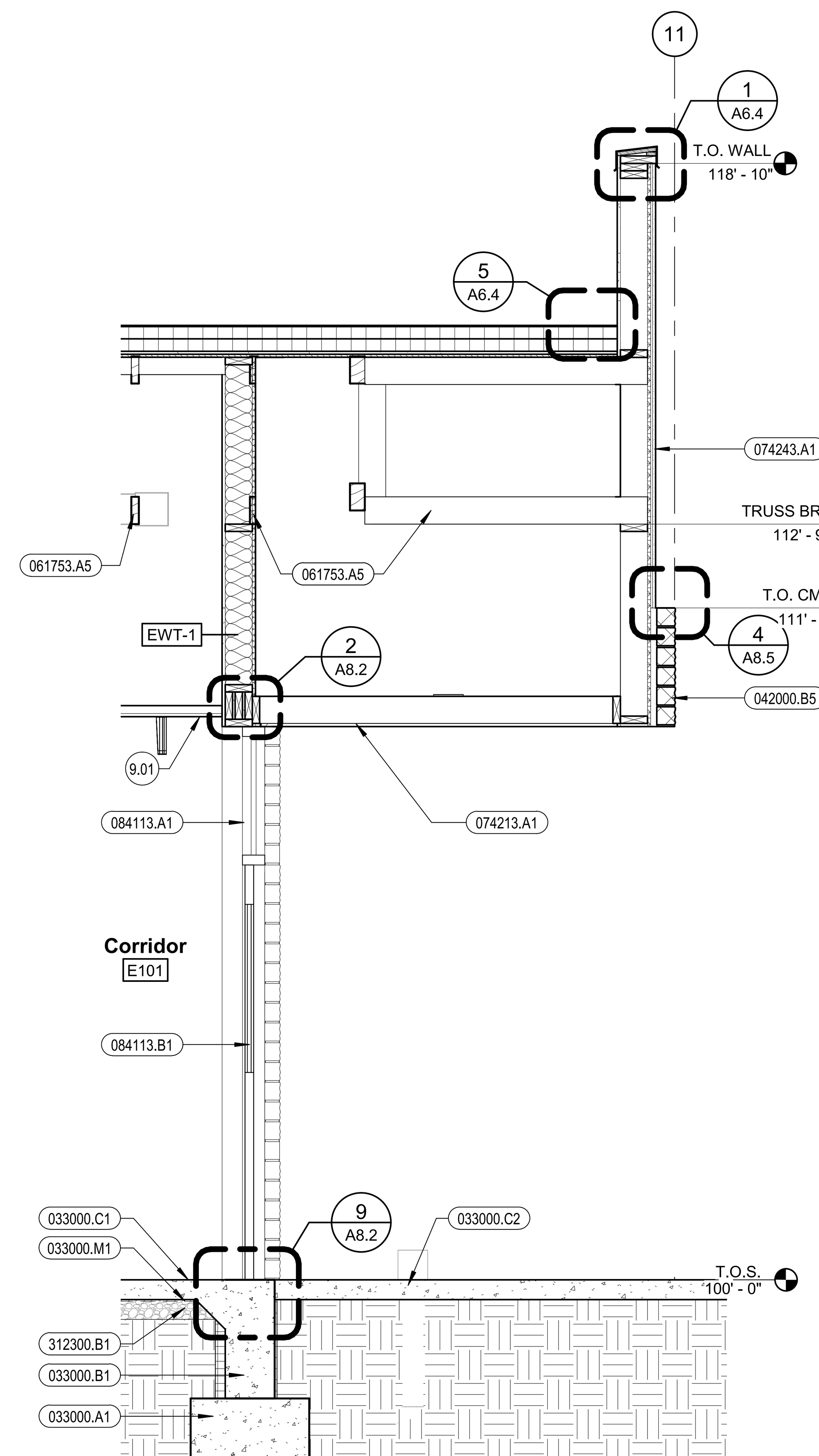
DRAWN BY: KB
CHECKED BY: BT

BID SET

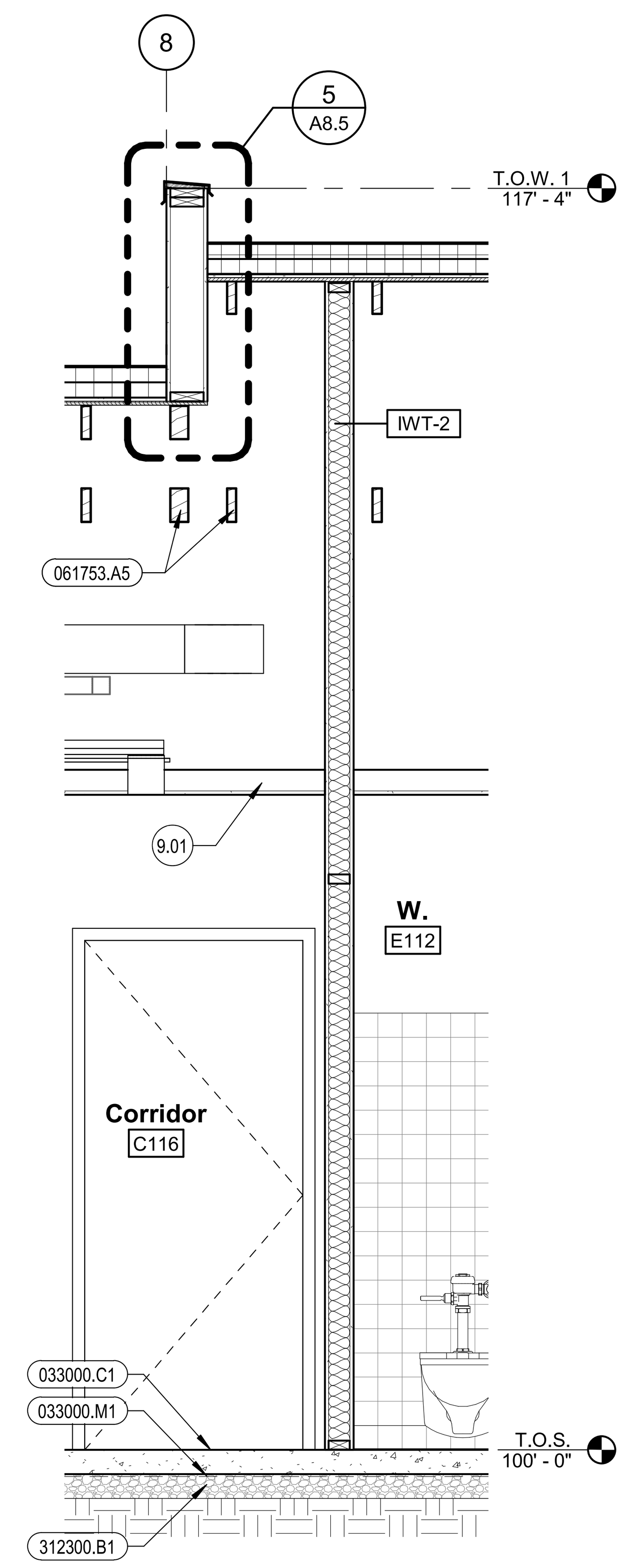
DRAWING NO.:
A7.8
WALL SECTIONS



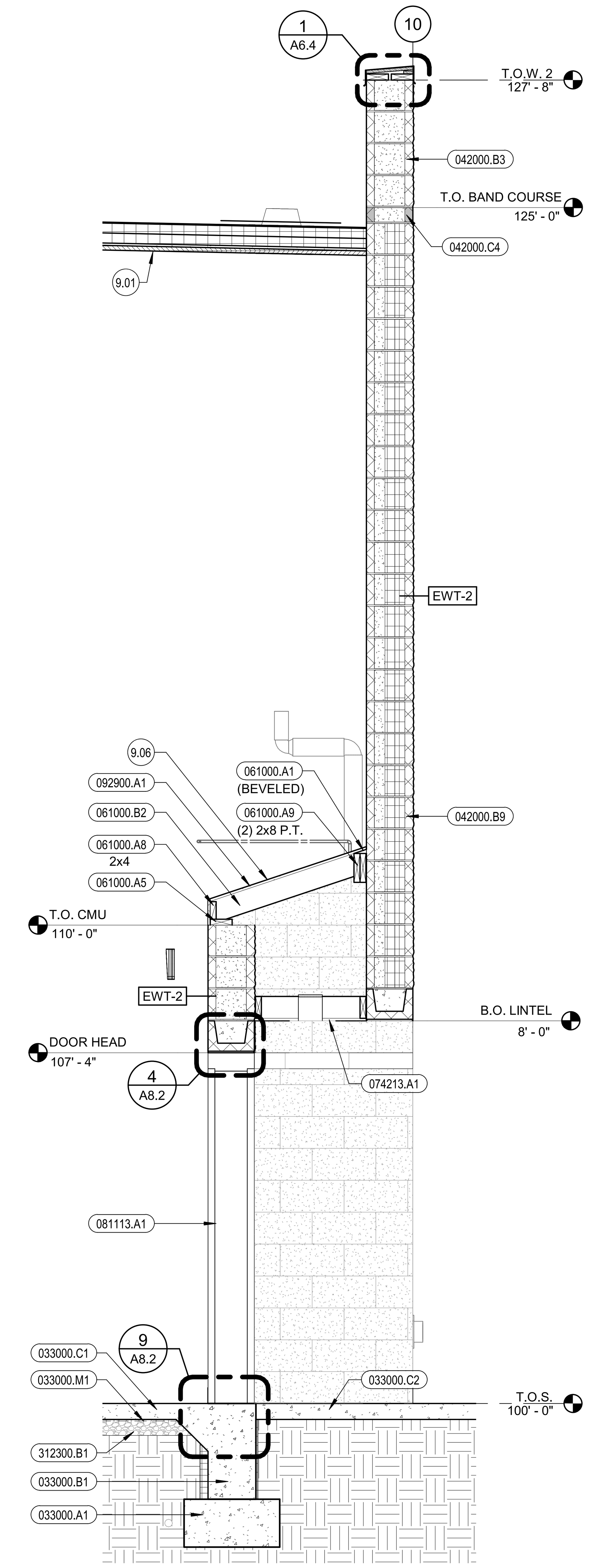
1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



4 WALL SECTION
1/2" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR FOUNDATION BEARING AND BACKFILL REQUIREMENTS.
2. SEE STRUCTURAL FOUNDATION AND MASONRY WALL DIMENSIONS AND REINFORCING.
3. SEE STRUCTURAL FOR TRUSS, JOIST, BEAM, AND HEADER SIZES AND SPACING.
4. SEE SHEET A1.2 FOR FIRE RATED CONSTRUCTION AND ASSEMBLY REQUIRMENTS.
5. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR CEILING HEIGHTS AND TYPES NOT SHOWN OR NOTED.
6. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR CMU BLOCK COLOR.
7. SEE SHEET A8.1 FOR WALL TYPES.
8. PROVIDE 5/8" TYP 'X' GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSSES, TYP.
9. SEE SHEET A6.1 FOR ROOF OVERHANG DIMENSIONS.

Reference Notes

5.03	HSS COLUMN
7.04	ROOFING ASSEMBLY PER PLAN.
9.01	SEE REFLECTED CEILING PLAN.
9.06	INCLINED CEILING AT CAFETORIUM ALCOVES.

Keyed Notes

033000.A1	CONCRETE FOOTING
033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C2	CONCRETE SLAB ON GRADE (EXTERIOR), 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C4	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16
061000.A1	DIMENSION LUMBER
061000.A5	2X P.T. WOOD SILL PLATE TO MATCH STUD WIDTH, U.N.O.
061000.A8	SOLID BLOCKING / BRIDGING
061000.A9	DIMENSION LUMBER BEAM / HEADER / LEDGER
061000.B2	WOOD JOIST(S) 2X6 @ 16" O.C., U.N.O.
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
081113.A1	HOLLOW METAL DOOR
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

LKV
ARCHITECTS
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Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

#	Description	Date
Revisions		

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

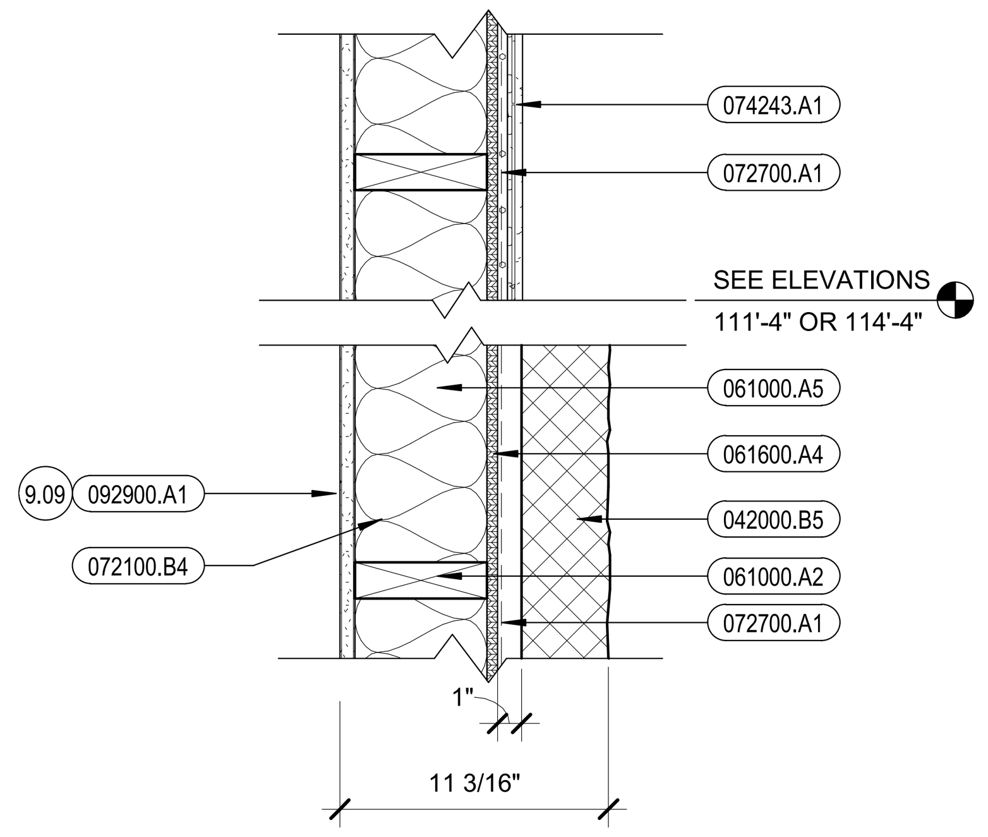
DRAWN BY: Author
CHECKED BY: Checker

BID SET

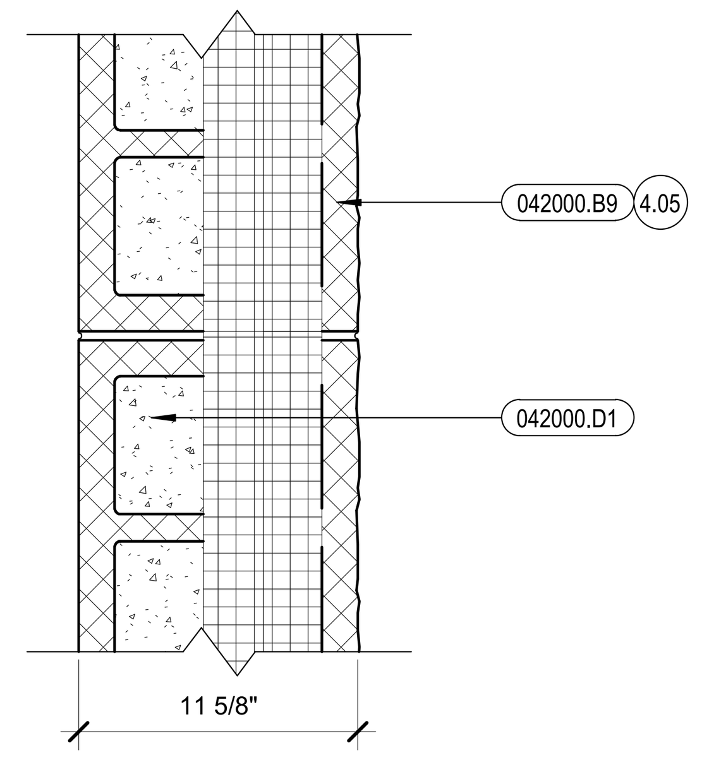
DRAWING NO.:

A7.9

WALL SECTIONS



1 EWT-1
1 1/2" = 1'-0"



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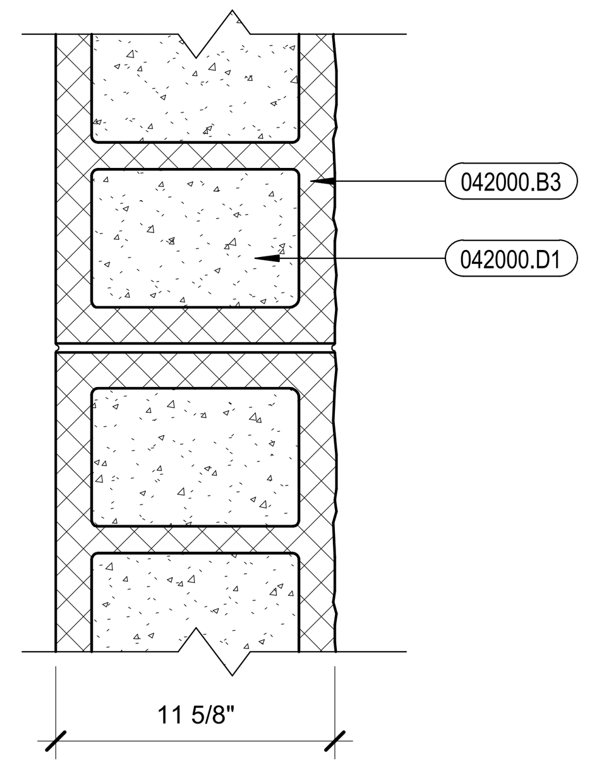

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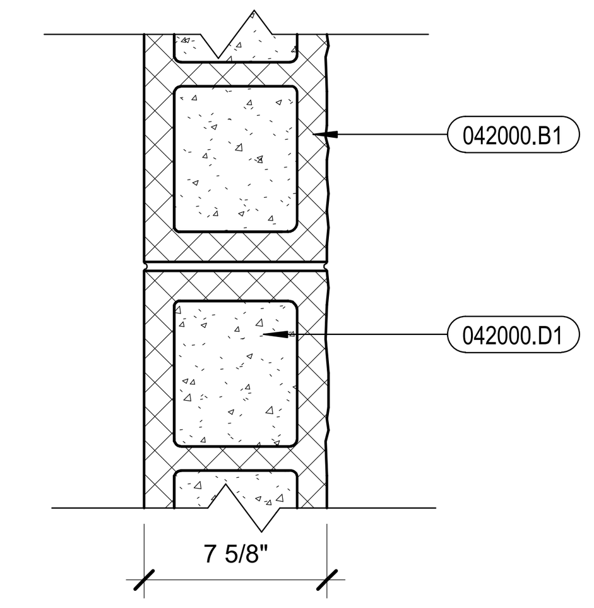
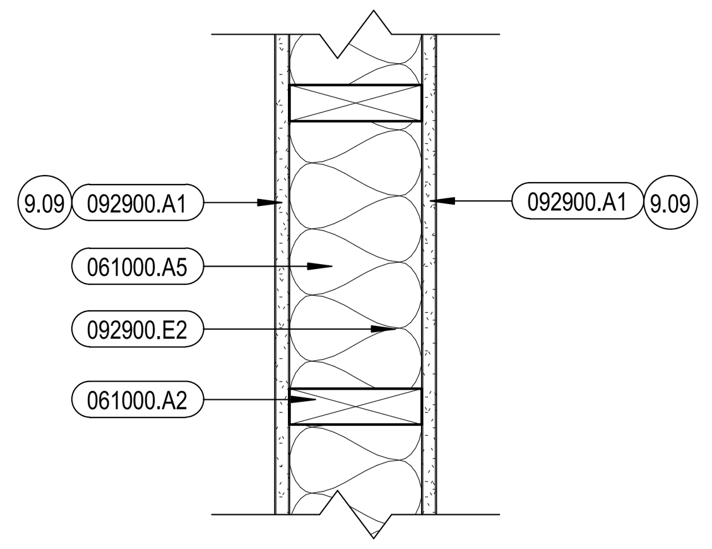
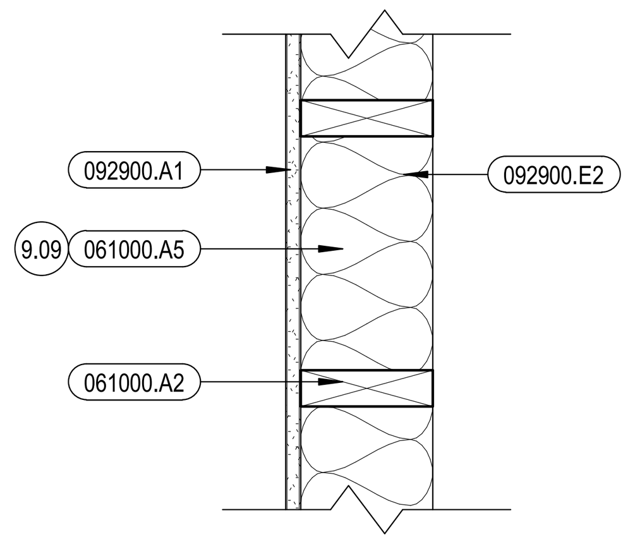


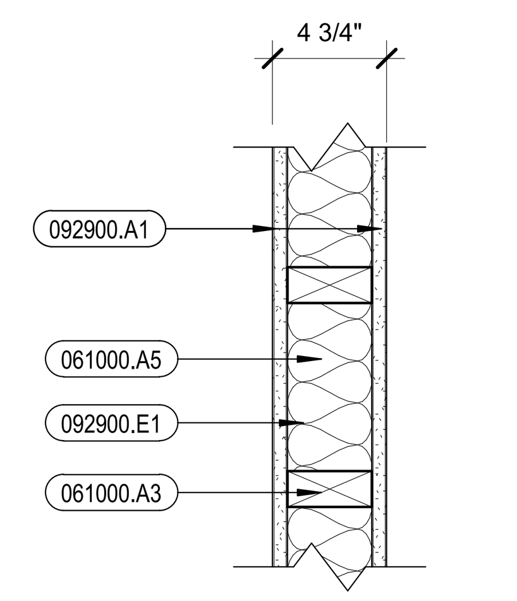
4 EWT-4
1 1/2" = 1'-0"



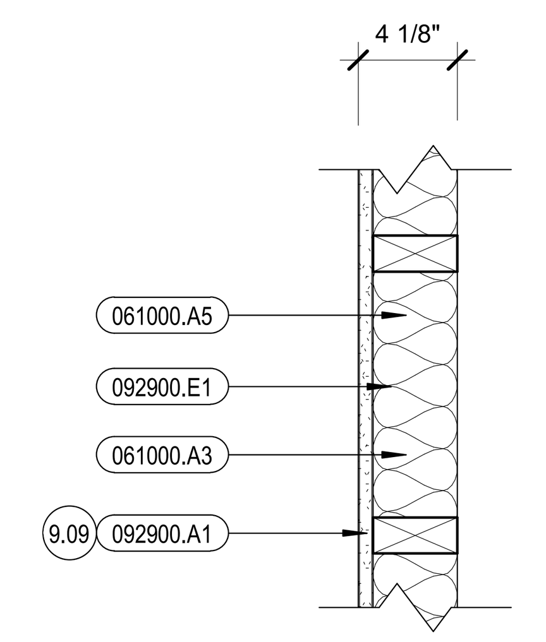
5 IWT-1
1 1/2" = 1'-0"



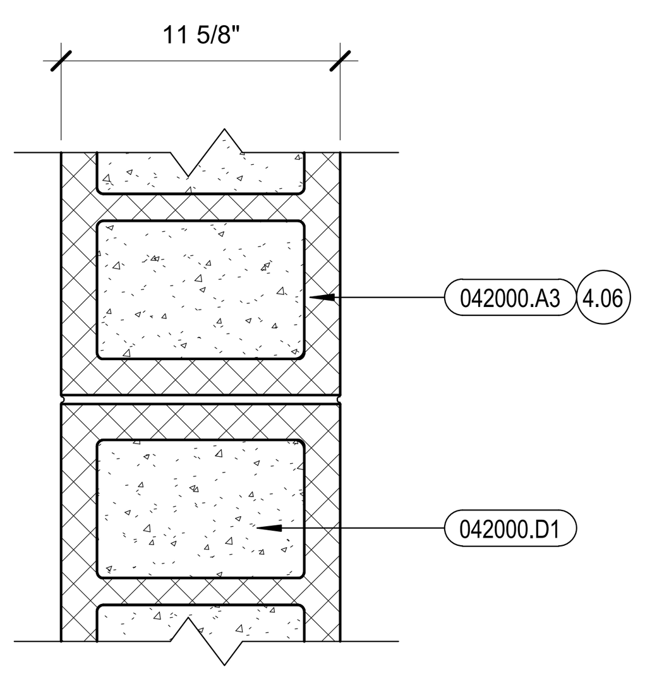
6 IWT-1.1
1 1/2" = 1'-0"



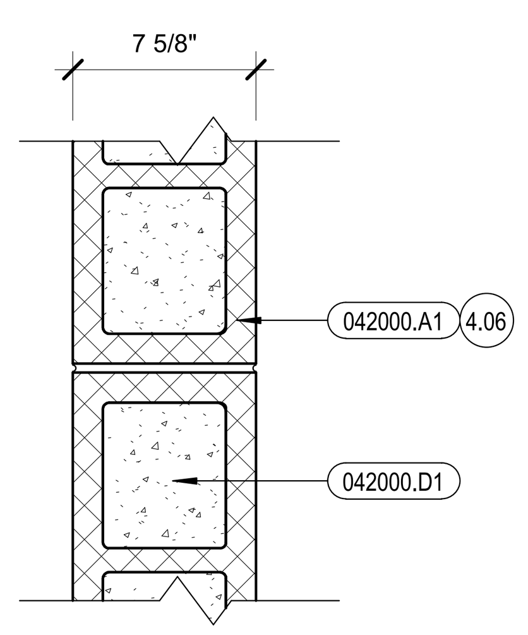
7 IWT-2
1 1/2" = 1'-0"



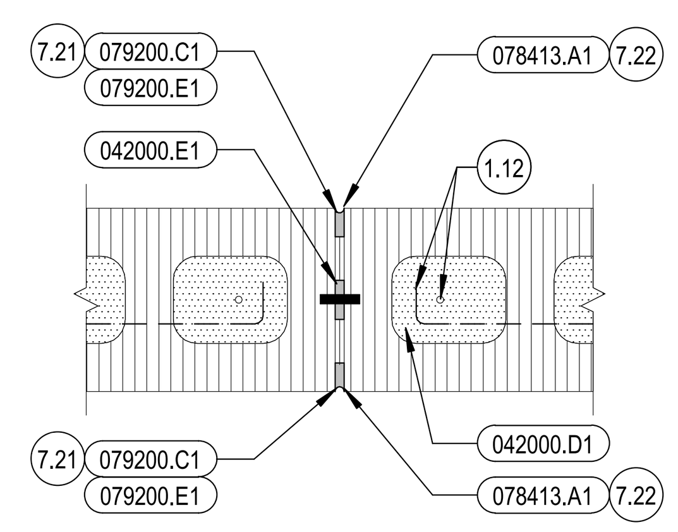
8 IWT-2.1
1 1/2" = 1'-0"



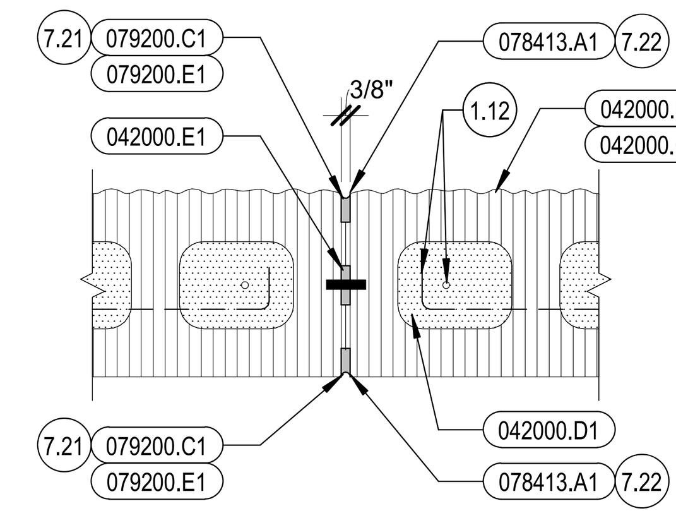
9 IWT-3 - FIREWALL
1 1/2" = 1'-0"



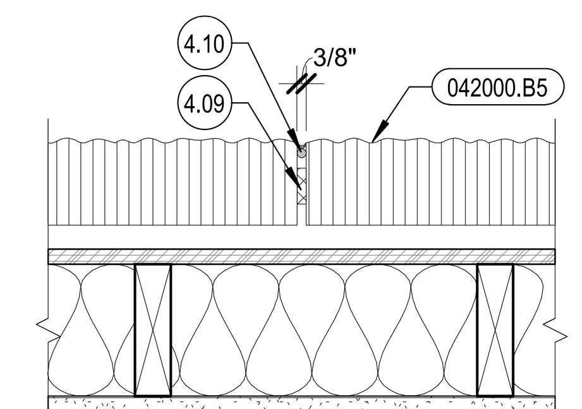
10 IWT-4 - FIREWALL
1 1/2" = 1'-0"



INTERIOR CMU CONTROL JOINT



EXTERIOR CMU CONTROL JOINT



CMU VENEER CONTROL JOINT

11 CMU CONTROL JOINT
1 1/2" = 1'-0"

General Notes

1. PROVIDE 2x FIRE BLOCKING IN ALL WALL ASSEMBLIES (EXCEPT SHAFT WALL ASSEMBLIES) IN ACCORDANCE WITH IBC REQUIREMENTS.
2. PROVIDE 2x SOLID F.R.T. BLOCKING AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WHITE BOARDS, TACK BOARDS, AND MILLWORK. COORDINATE LOCATIONS WITH FLOOR PLANS AND INTERIOR ELEVATIONS.
3. SEE STRUCTURAL DRAWINGS FOR FULL EXTENT OF SHEAR WALL REQUIREMENTS.
4. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL CMU BLOCK LOCATIONS.
5. FURNISH AND INSTALL THROUGH-PENETRATION FIRESTOP SYSTEMS IN 2 HOUR FIREWALL IN ACCORDANCE WITH LISTED U.L. ASSEMBLIES AND WITH SPECIFICATION SECTION 078413, PENETRATION FIRE STOPPING.
6. AT SLOPED ROOF AREAS, RUN INTERIOR WALL FULL HEIGHT TO UNDERSIDE OF DECK. TYP U.N.O.
7. ABUSE RESISTANT GYPSUM BOARD UP TO 4'-0" A.F.F. AT ALL HALLWAYS, COORIDORS, ALCOVES, AND VESTIBULES. ABUSE RESISTANT GYPSUM BOARD FULL HEIGHT IN RESTROOMS.

Reference Notes

1.12	SEE STRUCTURAL DRAWINGS.
4.05	REFER TO SECTIONS AND ELEVATIONS FOR COURSE LOCATIONS.
4.06	FIRE WALL - REFER TO CODE SHEET A1.2 FOR ASSEMBLIES.
4.08	SEE WALL SECTIONS AND ELEVATIONS FOR 12X4X16 COURSE LOCATIONS.
4.09	COMPRESSIBLE FILLER.
4.10	SEALANT AND BACKER ROD.
7.21	NON-FIRE RATED WALL CONTROL JOINT.
7.22	FIRE RATED WALL CONTROL JOINT. 'METACAULK'
9.09	PROVIDE ABUSE RESISTANT GYPSUM BOARD WHEN REQUIRED BY ROOM FINISH SCHEDULE.

Keyed Notes

042000.A1	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 8X8X16
042000.A3	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 12X8X16
042000.B1	CONCRETE MASONRY UNIT(S) SPLIT FACE, 8X8X16
042000.B3	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
042000.B9	CONCRETE MASONRY UNIT(S) SPLIT FACE, 12X8X16 (HI-R)
042000.C4	CONCRETE MASONRY UNIT(S) GROUND FACE, 12X4X16
042000.D1	SOLID GROUT
042000.E1	CONTROL JOINT WITH PREFORMED GASKETING
061000.A2	WOOD STUD(S) 2X6 @ 16" O.C., U.N.O.
061000.A3	WOOD STUD(S) 2X4 @ 16" O.C., U.N.O.
061000.A5	2X P.T. WOOD SILL PLATE TO MATCH STUD WIDTH, U.N.O.
061600.A4	WALL SHEATHING, SEE STRUCTURAL DRAWINGS.
072100.B4	THERMAL & ACOUSTICAL FIBER GLASS INSULATION, UNFACED 5 1/2
072700.A1	BUILDING WRAP
074243.A1	FIBER CEMENT SIDING PANELS.
078413.A1	PENETRATION FIRESTOPPING
079200.C1	LATEX JOINT SEALANT
079200.E1	FOAM BACKER ROD
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
092900.E1	SOUND ATTENUATION BATT(S) 3 1/2"
092900.E2	SOUND ATTENUATION BATT(S) 5 1/2"

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#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

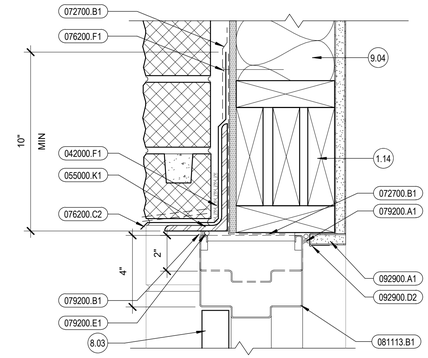
DRAWN BY: KB
CHECKED BY: BT

BID SET

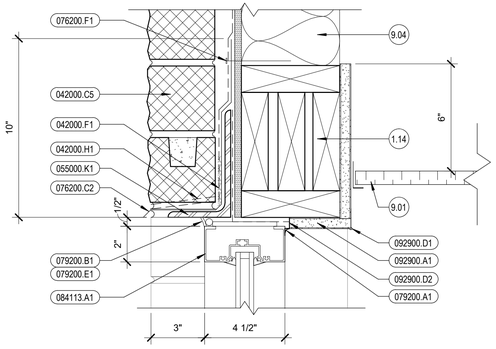
DRAWING NO.:

A8.1

WALL TYPES / DETAILS



1 HM. DOOR HEAD @ VENEER
3" = 1'-0"



2 ALUM. WINDOW HEAD @ CMU VENEER
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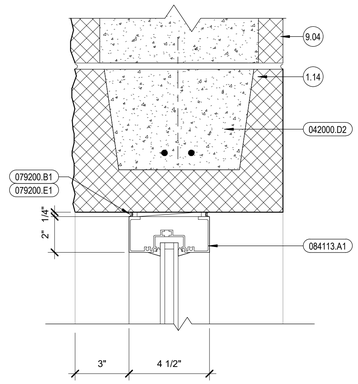
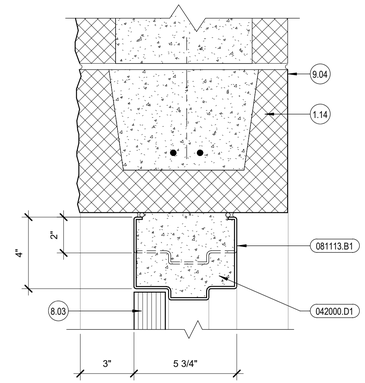


3 ALUM. HEAD @ CMU
3" = 1'-0"



4 HM. DOOR HEAD @ CMU
3" = 1'-0"

5 HM. DOOR JAMB @ VENEER
3" = 1'-0"

6 Alum. Window Jamb
3" = 1'-0"

7 ALUM. JAMB @ CMU
3" = 1'-0"

8 DOOR JAMB @ CMU
3" = 1'-0"

9 HM. DOOR THRESHOLD
3" = 1'-0"

10 Alum. Window Sill
3" = 1'-0"

11 ALUM. SILL @ CMU
3" = 1'-0"

12 ALUM. DOOR THRESHHOLD
3" = 1'-0"

General Notes

1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

1.14	SEE STRUCTURAL DRAWINGS FOR HEADER / LINTEL TYPES AND SIZES.
8.03	SEE DOOR SCHEDULE. SHEET A4.2 FOR DOOR TYPE.
9.01	SEE REFLECTED CEILING PLAN.
9.04	WALL TYPE PER PLANS.
9.08	2 X 5/8" X 20 GAUGE GALVANIZED PRIOR TO FLASHING.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.C2	CONCRETE SLAB ON GRADE (EXTERIOR), 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.C5	CONCRETE MASONRY UNIT(S) GROUND FACE, 4X4X16
042000.D1	SOLID GROUT
042000.D2	SOLID GROUT BOND BEAM
042000.F1	CAVITY DRAINAGE MATERIAL
042000.H1	WEEP VENT TUBING
055000.K1	STEEL ANGLE
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
072100.A1	FOUNDATION / WALL INSULATION - EXTRUDED POLYSTYRENE, 2" U.N.O.
072700.A1	BUILDING WRAP
072700.B1	FLEXIBLE FLASHING
076200.C2	PRE-FINISHED METAL FLASHING, 24 GA.
076200.F1	FASTENER
079200.A1	ONE PART SILICON SEALANT
079200.B1	ONE PART URETHANE SEALANT
079200.E1	FOAM BACKER ROD
081113.A1	HOLLOW METAL DOOR
081113.B1	HOLLOW METAL DOOR FRAME
081113.E1	FRAME ANCHOR(S) FOR MASONRY WALLS
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
084113.D1	ALUMINUM STOREFRONT SILL FLASHING
087100.B1	ALUMINUM THRESHOLD
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
092900.D1	METAL CORNER BEAD
092900.D2	METAL TRIM, LC
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

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LICENSED ARCHITECT
Brock Thurston
02/11/2022
OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

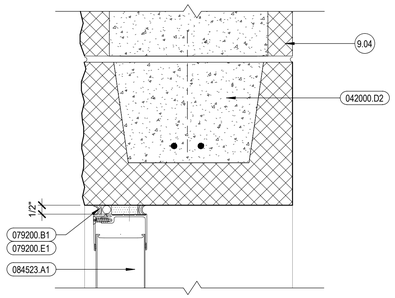
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: KB
CHECKED BY: BT

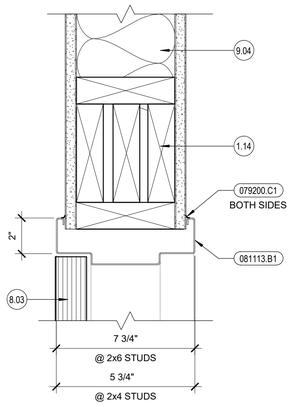
BID SET

DRAWING NO.:

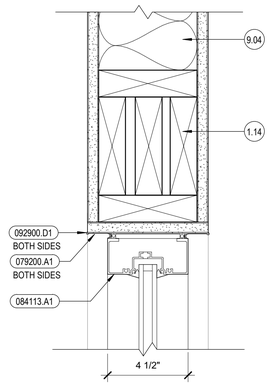
A8.2
ARCHITECTURAL DETAILS



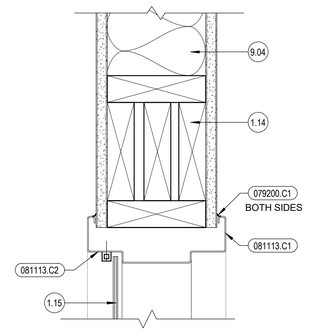
1 KALWALL HEAD @ CMU
3" = 1'-0"



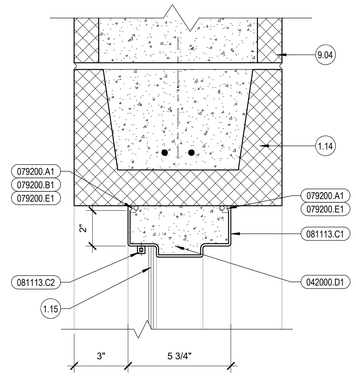
2 HM. DOOR HEAD
3" = 1'-0"



3 ALUM. WINDOW HEAD
3" = 1'-0"



4 WINDOW HEAD
3" = 1'-0"



5 HM. WINDOW HEAD @ CMU
3" = 1'-0"

General Notes

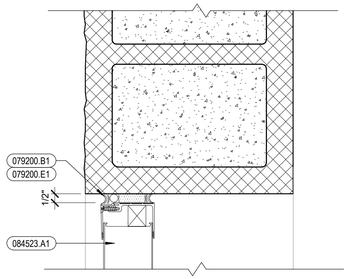
1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

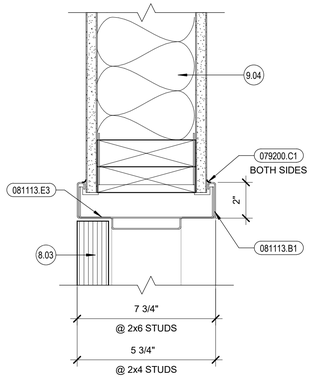
1.14	SEE STRUCTURAL DRAWINGS FOR HEADER / LINTEL TYPES AND SIZES.
1.15	SEE SHEETS A4.3 AND A4.4 FOR GLAZING AND DOOR TYPES.
8.03	SEE DOOR SCHEDULE. SHEET A4.2 FOR DOOR TYPE.
9.04	WALL TYPE PER PLANS.

Keyed Notes

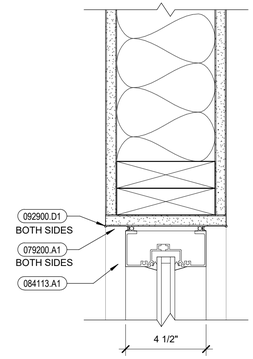
042000.D1	SOLID GROUT
042000.D2	SOLID GROUT BOND BEAM
072700.A1	BUILDING WRAP
076200.C2	PRE-FINISHED METAL FLASHING, 24 GA.
079200.A1	ONE PART SILICON SEALANT
079200.B1	ONE PART URETHANE SEALANT
079200.C1	LATEX JOINT SEALANT
079200.E1	FOAM BACKER ROD
081113.B1	HOLLOW METAL DOOR FRAME
081113.C1	HOLLOW METAL GLAZING FRAME
081113.C2	GLAZING STOP
081113.E1	FRAME ANCHOR(S) FOR MASONRY WALLS
081113.E3	FRAME ANCHOR(S) FOR WOOD STUD WALLS
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.D1	ALUMINUM STOREFRONT SILL FLASHING
084523.A1	FIBERGLASS - SANDWICH PANEL ASSEMBLIES
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
092900.D1	METAL CORNER BEAD



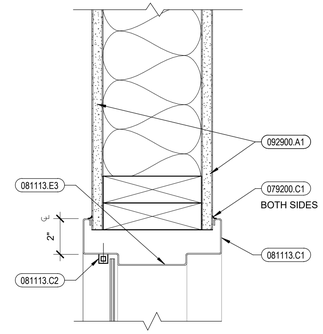
6 KALWALL JAMB @ CMU
3" = 1'-0"



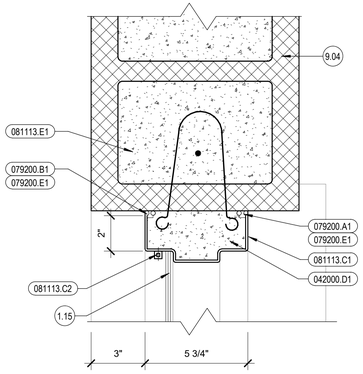
7 HM. DOOR JAMB
3" = 1'-0"



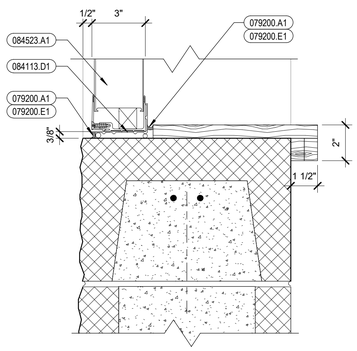
8 ALUM. WINDOW JAMB
3" = 1'-0"



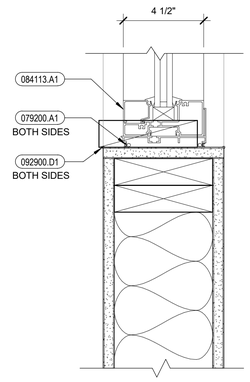
9 WINDOW JAMB
3" = 1'-0"



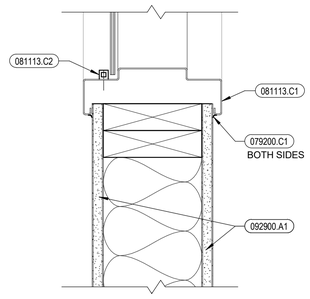
10 HM. WINDOW JAMB @ CMU
3" = 1'-0"



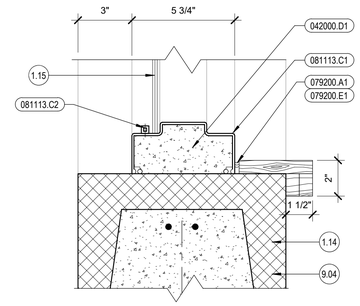
11 KALWALL SILL @ CMU
3" = 1'-0"



12 ALUM. WINDOW SILL
3" = 1'-0"



13 WINDOW SILL
3" = 1'-0"



14 HM. WINDOW SILL @ CMU
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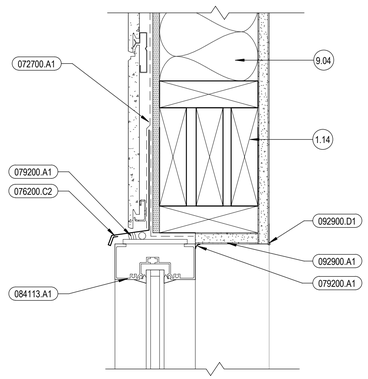


15 ALUM. WINDOW HEAD
3" = 1'-0"

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

REGISTERED ARCHITECT
Brad Thurston
02/11/2022

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

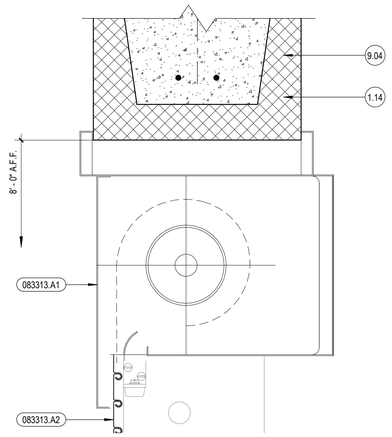
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

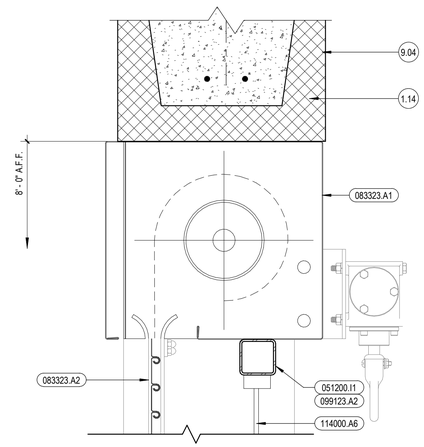
BID SET

DRAWING NO.:

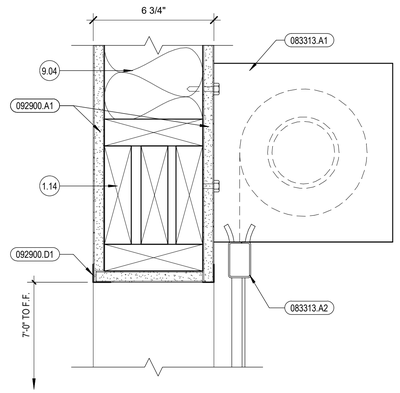
A8.3
ARCHITECTURAL DETAILS



1 COILING DOOR HEAD AT DISH RETURN
3" = 1'-0"



2 COILING DOOR HEAD AT SERVING LINE
3" = 1'-0"



3 COILING DOOR HEAD AT ADMIN.
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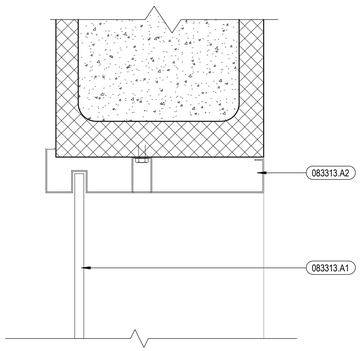

4 COILING DOOR JAMB AT DISH RETURN
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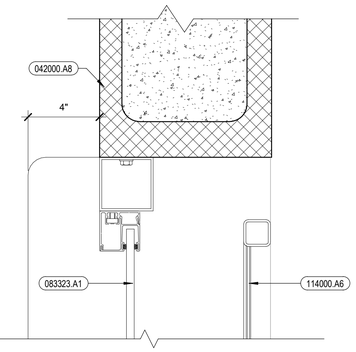

5 COILING DOOR JAMB AT SERVING LINE
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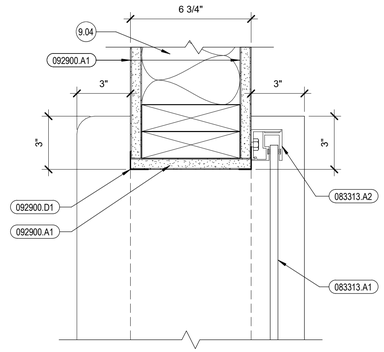

6 COILING DOOR JAMB AT ADMIN.
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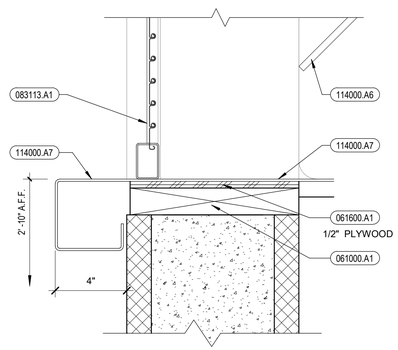
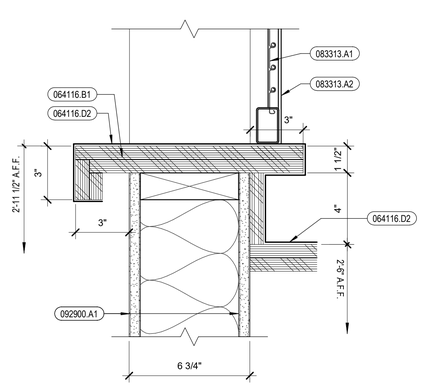
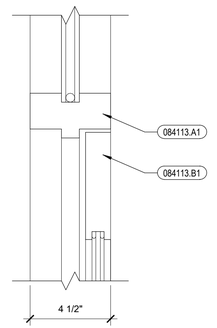


7 COILING DOOR SILL AT SERVING LINE
3" = 1'-0"



8 COILING DOOR SILL AT ADMIN.
3" = 1'-0"



9 DOOR / WINDOW MULLION
3" = 1'-0"

General Notes

1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

1.14	SEE STRUCTURAL DRAWINGS FOR HEADER / LINTEL TYPES AND SIZES.
9.04	WALL TYPE PER PLANS.

Keyed Notes

042000.A8	CONCRETE MASONRY UNIT(S) SMOOTH FACE, 10X8X16
051200.I1	STEEL TUBE
061000.A1	DIMENSION LUMBER
061600.A1	SHEATHING, MISC. (TYPE AND THICKNESS INDICATED)
064116.B1	3/4" PLYWOOD, EXTERIOR GRADE
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
083113.A1	ACCESS DOOR
083313.A1	COILING COUNTER DOOR
083313.A2	COILING COUNTER DOOR TRACK
083323.A1	OVERHEAD COILING DOOR
083323.A2	OVERHEAD COILING DOOR TRACK
084113.A1	ALUMINUM STOREFRONT DOOR / WINDOW FRAMING
084113.B1	ALUMINUM ENTRANCE DOOR
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
092900.D1	METAL CORNER BEAD
099123.A2	PAINT-INTERIOR EPOXY
114000.A6	14 GA. STAINLESS STEEL SNEEZE GUARD
114000.A7	14 GA. STAINLESS STEEL PASS THROUGH COUNTER

LKV ARCHITECTS
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LICENSED ARCHITECT
Brad Thurston
02/11/2022
OF IDAHO

#	Description	Date
	Revisions	

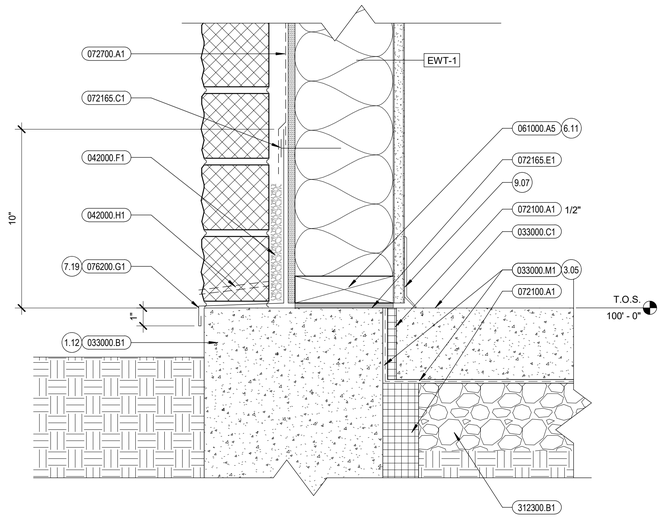
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

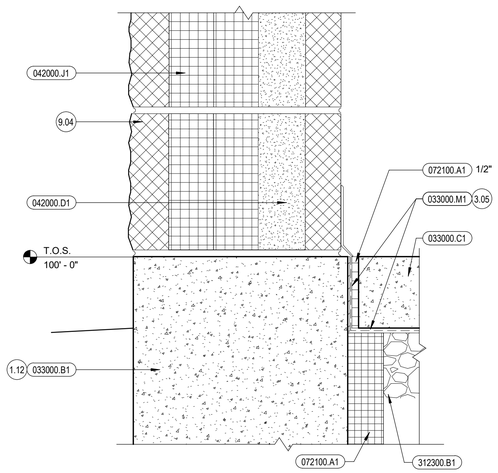
DRAWN BY: Author
CHECKED BY: Checker

BID SET

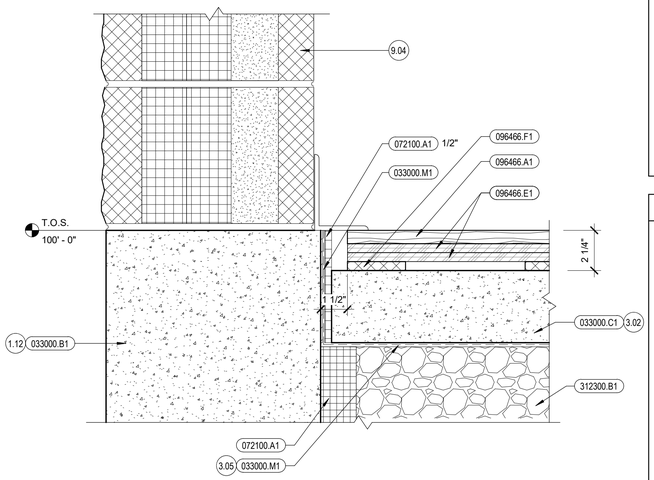
DRAWING NO.:
A8.4
ARCHITECTURAL DETAILS



1 WALL BASE @ VENEER
3" = 1'-0"



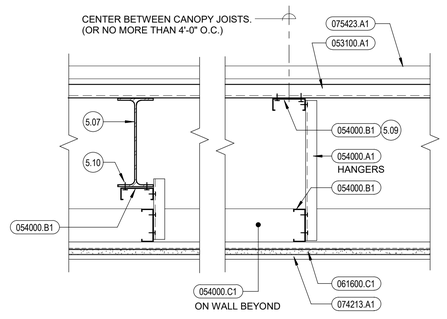
2 WALL BASE DETAIL
3" = 1'-0"



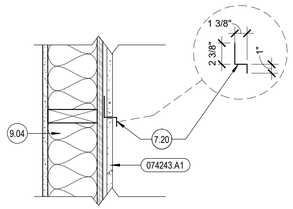
3 GYM FLOOR EDGE (STAGE SIMILAR)
3" = 1'-0"

4 HORIZONTAL SECTION AT TRANSITION
3" = 1'-0"

5 PARAPET COPING
3" = 1'-0"



6 TYPICAL CANOPY SOFFIT FRAMING
1 1/2" = 1'-0"



TYPICAL COMPRESSION JOINT DETAIL
7 @ CEMENT BOARD
1 1/2" = 1'-0"

General Notes

1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

1.12	SEE STRUCTURAL DRAWINGS.
3.02	RECESSED SLAB. SEE STRUCTURAL DRAWINGS.
3.05	TURN UP VAPOR RETARDER TO TOP OF FOUNDATION WALL AND SEAL TO WALL WITH URETHANE SEALANT.
5.07	STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.09	FASTEN TO DECK WITH (2) SELF TAPPING SCREWS AT MAX 24" O.C . & 4" FROM ENDS.
5.10	FASTEN TO BEAM WITH (2) P.A.F.'S AT MAX 24" O.C . & 4" FROM ENDS.
6.11	SEE STRUCTURAL DRAWINGS.
7.19	SEAL VERTICAL LEG OF FLASHING WITH AIR BARRIER TAPE.
7.20	1" DRIVE ON JOINT SEAM COVER W/ CONT. SEALANT EACH SIDE.
9.04	WALL TYPE PER PLANS.
9.07	SEE ROOM FINISH SCHEDULE FOR BASE MATERIAL AND HEIGHT.

Keyed Notes

033000.B1	CONCRETE FOUNDATION WALL
033000.C1	CONCRETE FLOOR SLAB ON GRADE, 4" U.N.O.
033000.M1	VAPOR RETARDER
042000.D1	SOLID GROUT
042000.F1	CAVITY DRAINAGE MATERIAL
042000.H1	WEEP VENT TUBING
042000.J1	MASONRY-CELL INSULATION
053100.A1	STEEL ROOF DECK, 1 1/2", 20 GUAGE, TYPE B UNO.
054000.A1	STEEL CEE STUD(S) 3 5/8", 20 GA. @ 24" O.C., U.N.O.
054000.B1	STEEL CEE RUNNER 3 5/8" 20 GA. CONTINUOUS
054000.C1	STEEL STUD TRACK, SAME WIDTH AND GUAGE AS STUDS U.N.O.
061000.A2	WOOD STUD(S) 2X6 @ 16" O.C., U.N.O.
061000.A5	2X P.T. WOOD SILL PLATE TO MATCH STUD WIDTH, U.N.O.
061600.A2	ROOF SHEATHING, SEE STRUCTURAL DRAWINGS.
061600.A4	WALL SHEATHING, SEE STRUCTURAL DRAWINGS.
061600.C1	GYPSUM SHEATHING BOARD, 5/8"
061753.A5	PRE-ENGINEERED WOOD ROOF TRUSS(ES).
072100.A1	FOUNDATION / WALL INSULATION - EXTRUDED POLYSTYRENE, 2" U.N.O.
072100.A3	CLOSED CELL SPRAY POLYURETHANE FOAM
072165.C1	FASTENER
072165.E1	FLEXIBLE POLYETHYLENE FOAM GASKET STRIP
072700.A1	BUILDING WRAP
074213.A1	METAL WALL PANEL(S)
074243.A1	FIBER CEMENT SIDING PANELS.
074243.B1	STARTER CLIP
075423.A1	SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
075423.B1	ADHERED SINGLE-PLY MEMBRANE FLASHING
075423.D1	RIGID ROOF INSULATION - POLYISOCYANURATE, (2) LAYERS, 2 1/2"
075423.F1	SUBSTRATE BOARD, 1/2"
075423.J1	FASTENER(S)
076200.G1	BASE FLASHING, 26 GA. GALV.
096466.A1	HARDWOOD FLOORING, 3/4"
096466.E1	1/2" PLYWOOD (T&G)
096466.F1	RESILIENT PAD
312300.B1	DRAINAGE FILL COURSE, 4" THICK, 3/4" MINUS

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02/11/2022

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

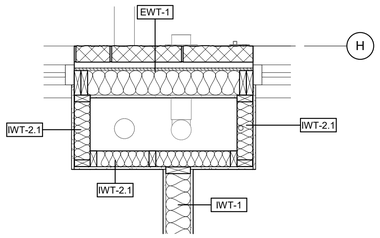
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

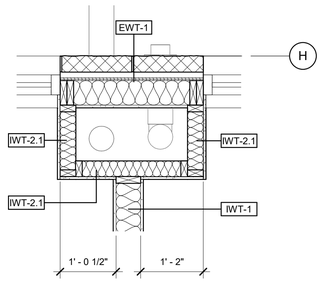
BID SET

DRAWING NO.:

A8.5
ARCHITECTURAL DETAILS



1 ROOF DRAIN CHASE 1
3/4" = 1'-0"



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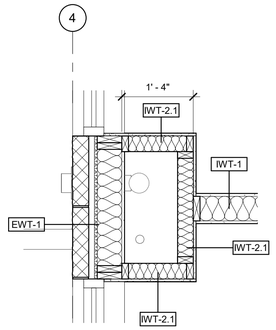

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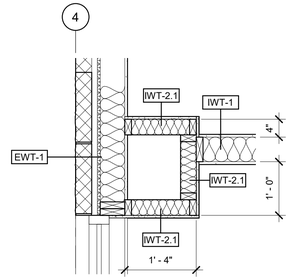

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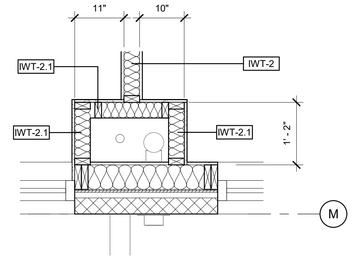

5 ROOF DRAIN CHASE 5
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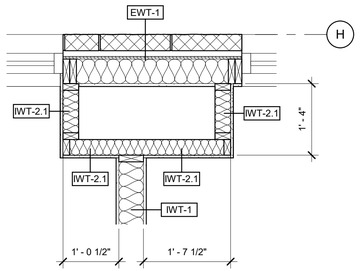
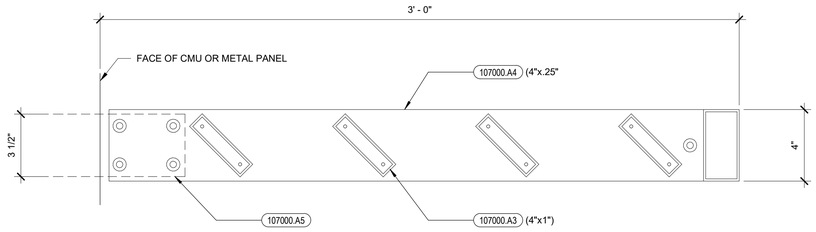
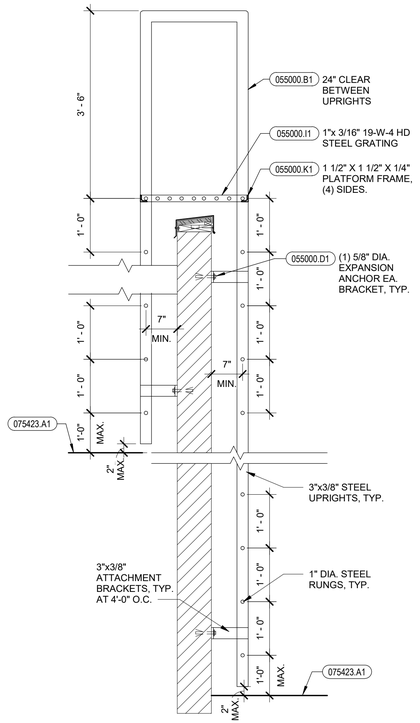


6 ROOF DRAIN CHASE - ALT 1
3/4" = 1'-0"

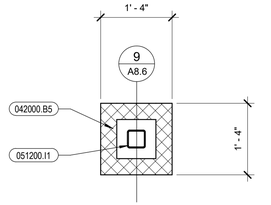


NOTE: BRACKETS TO BE PART OF THE SUNSHADE MANUFACTURER'S SCOPE OF WORK. BRACKETS TO MATCH SUNSHADE MATERIAL AND COLOR.

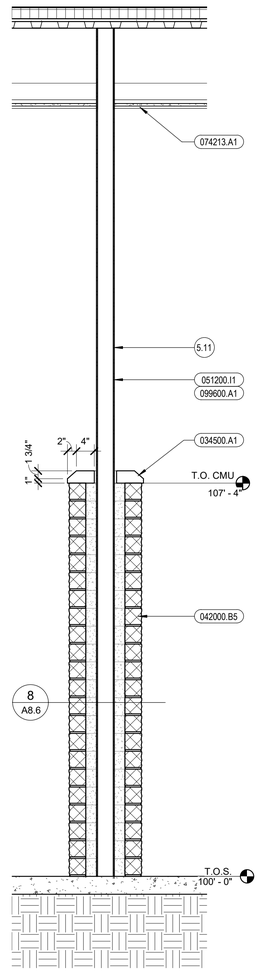
7 SUNSHADE
3" = 1'-0"



10 ROOF LADDER
3/4" = 1'-0"



8 COLUMN DETAIL - PLAN
3/4" = 1'-0"



9 COLUMN DETAIL - SECTION
3/4" = 1'-0"

General Notes

1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.

Reference Notes

5.11	EXPOSED STRUCTURAL STEEL TO BE GROUND SMOOTH AT WELDS, FREE FROM BURRS, ETC.

Keyed Notes

034500.A1	CONCRETE SILL
042000.B5	CONCRETE MASONRY UNIT(S) SPLIT FACE, 4X4X16
051200.I1	STEEL TUBE
055000.B1	STEEL LADDER
055000.D1	BOLT(S)
055000.I1	STEEL GRATING
055000.K1	STEEL ANGLE
074213.A1	METAL WALL PANEL(S)
075423.A1	SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
099600.A1	HIGH PERFORMANCE COATING
107000.A3	SUNSHADE LOUVER
107000.A4	SUNSHADE OUT-RIGGER
107000.A5	SUNSHADE SUPPORT BRACKET

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LICENSED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

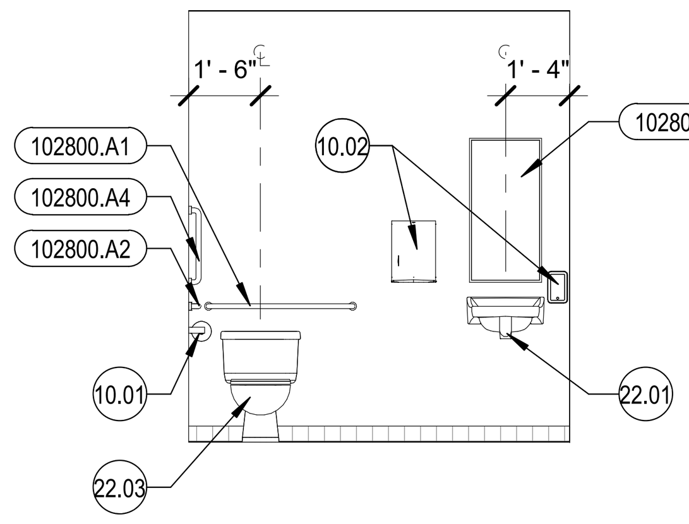
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

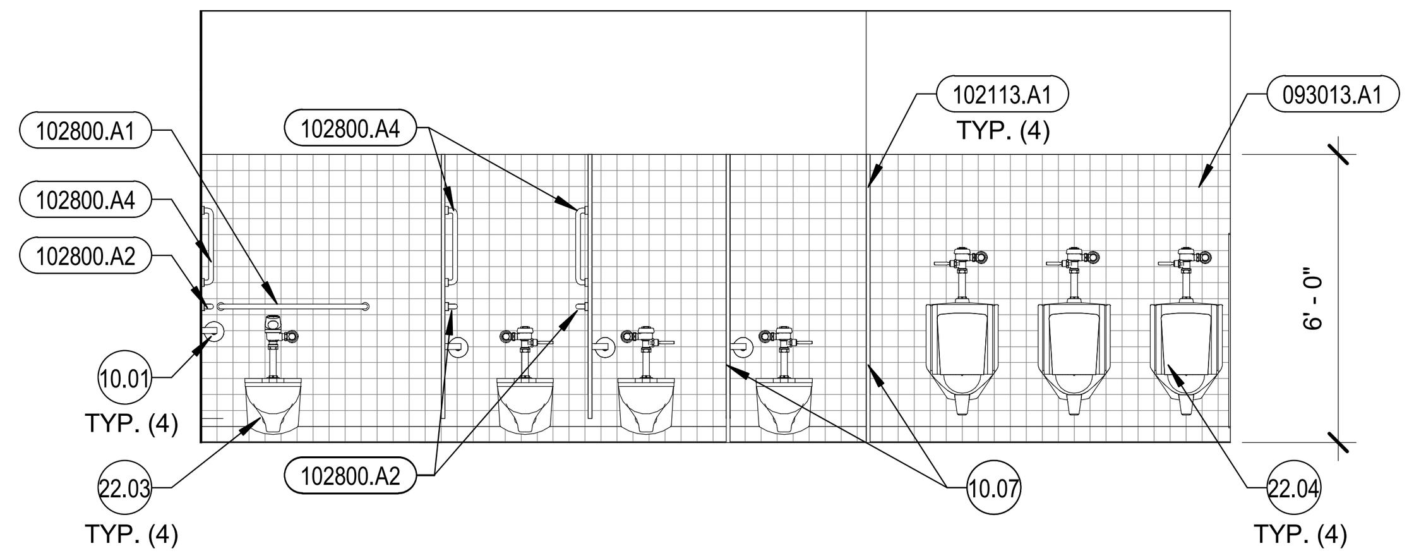
BID SET

DRAWING NO.:

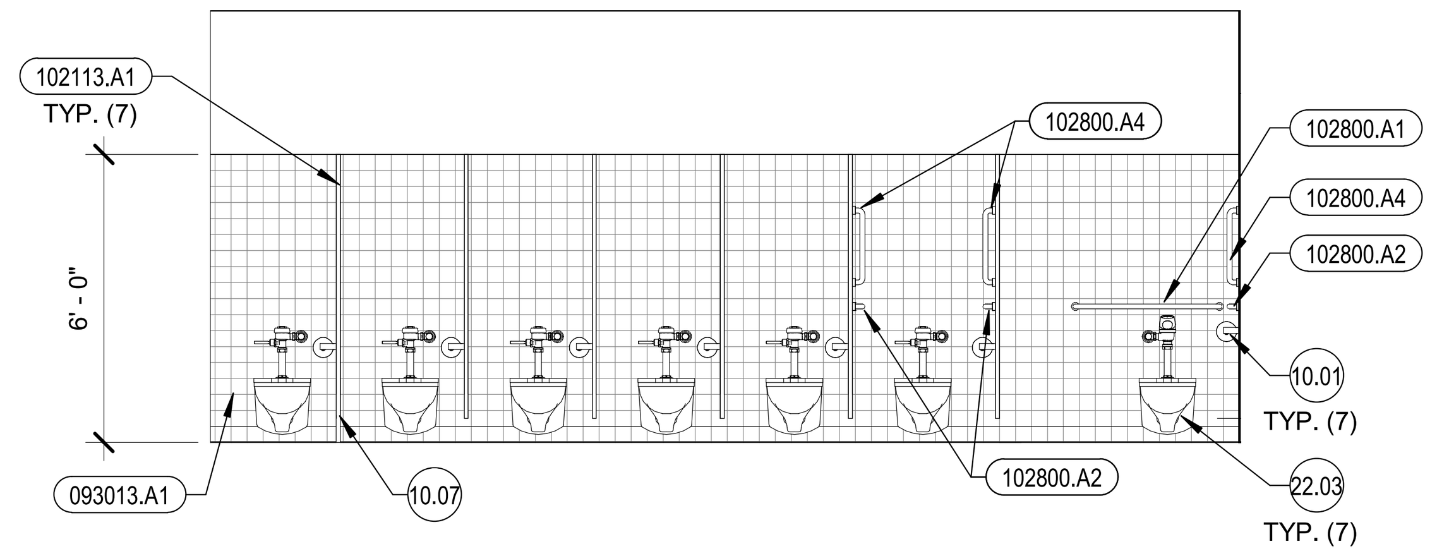
A8.6
ARCHITECTURAL DETAILS



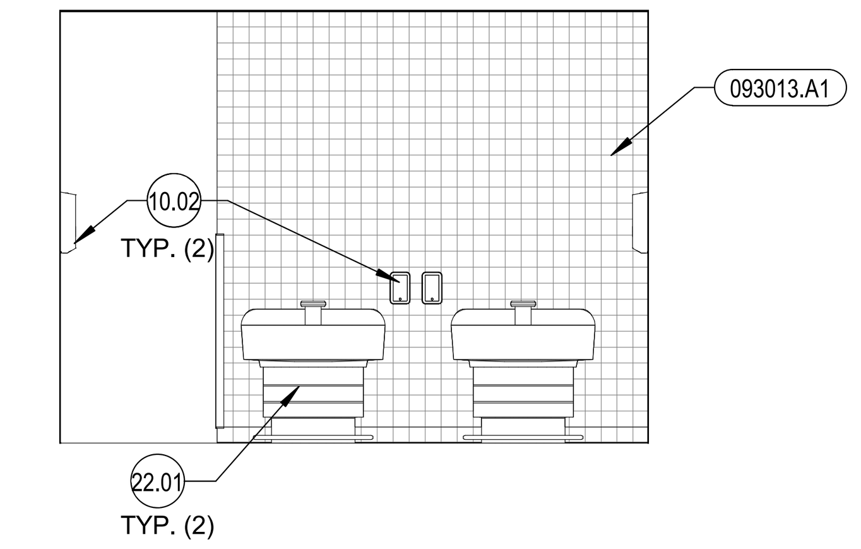
1 TYP. TOILET
1/4" = 1'-0"



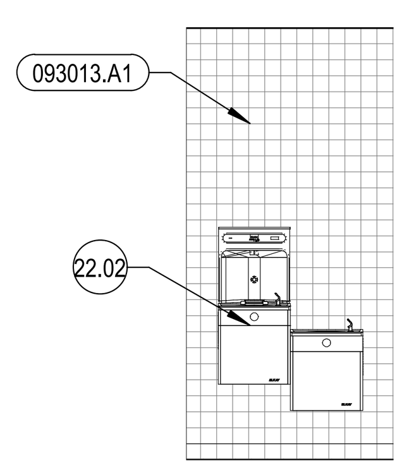
2 TYP. RESTROOM - BOYS
1/4" = 1'-0"



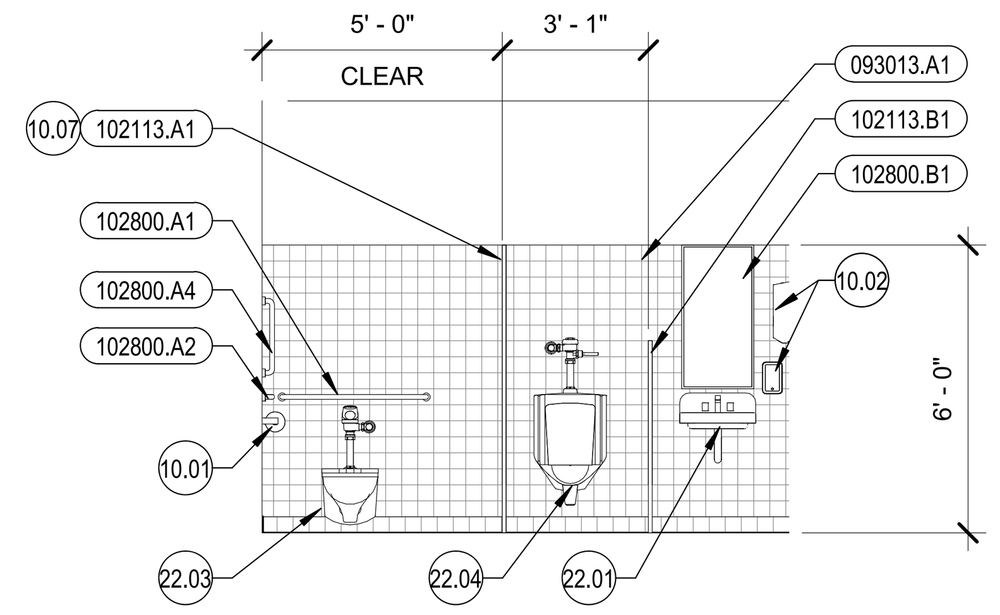
3 TYP. RESTROOM - GIRLS
1/4" = 1'-0"



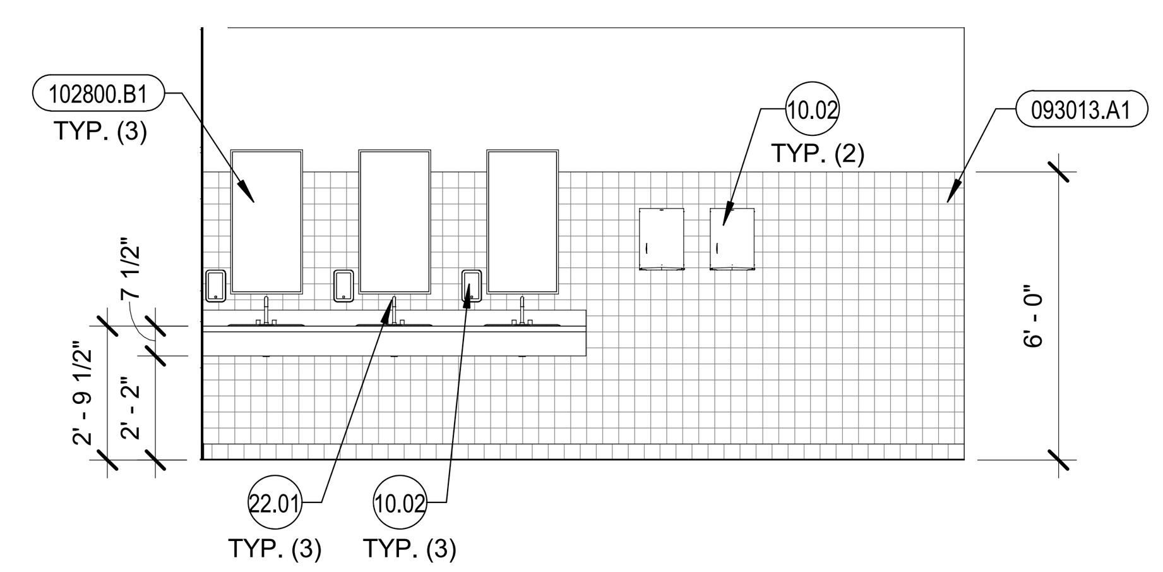
4 TYP. RESTROOM SINKS
1/4" = 1'-0"



5 TYP. DRINKING FOUNTAIN
1/4" = 1'-0"



7 C114 MEN
1/4" = 1'-0"



8 C115 WOMEN - NORTH
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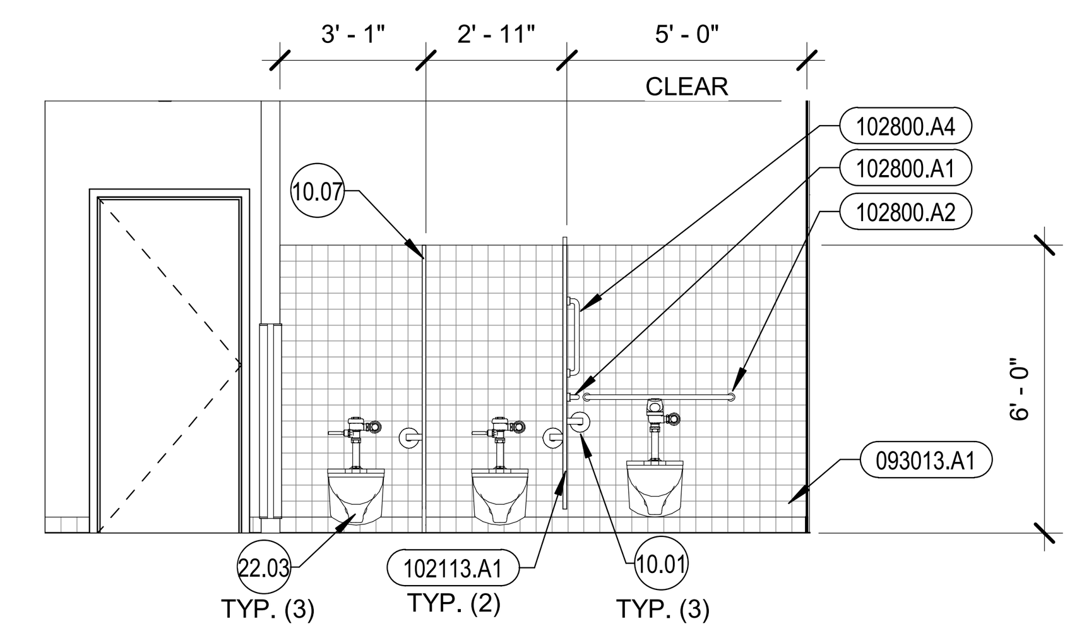
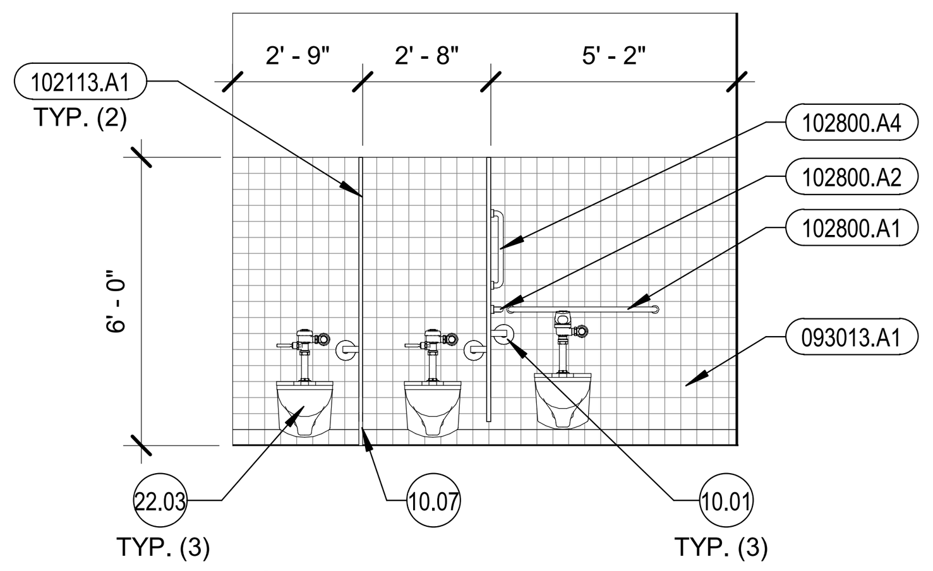


9 C115 WOMEN - SOUTH
1/4" = 1'-0"



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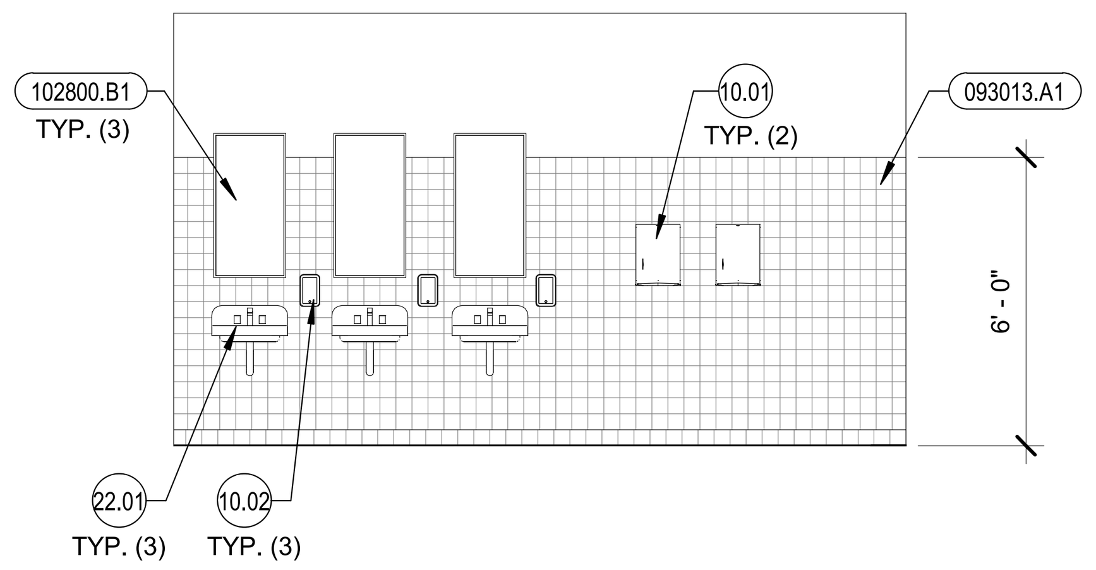

11 E112 WOMEN - SOUTH
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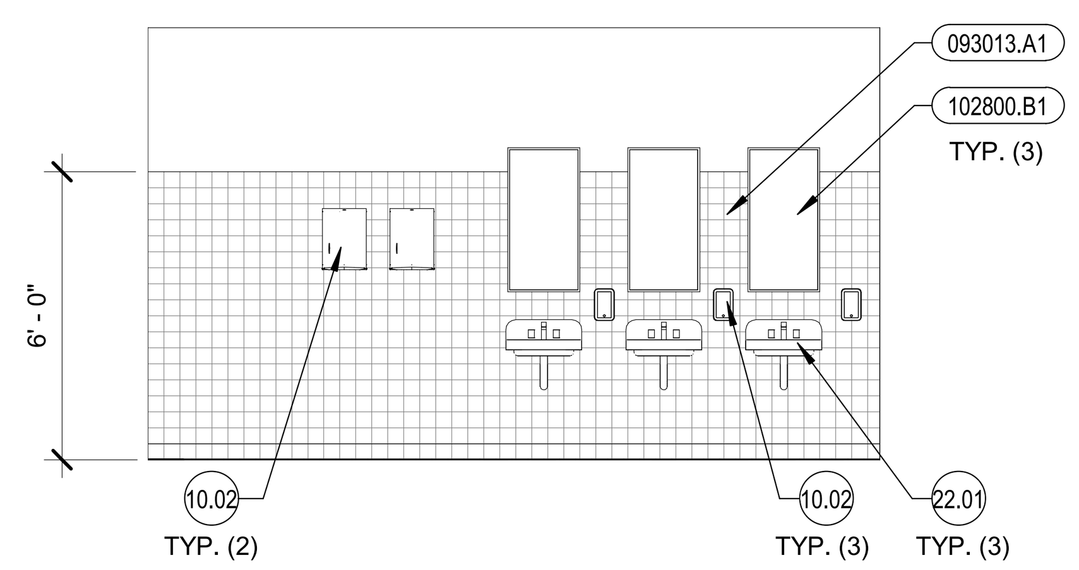
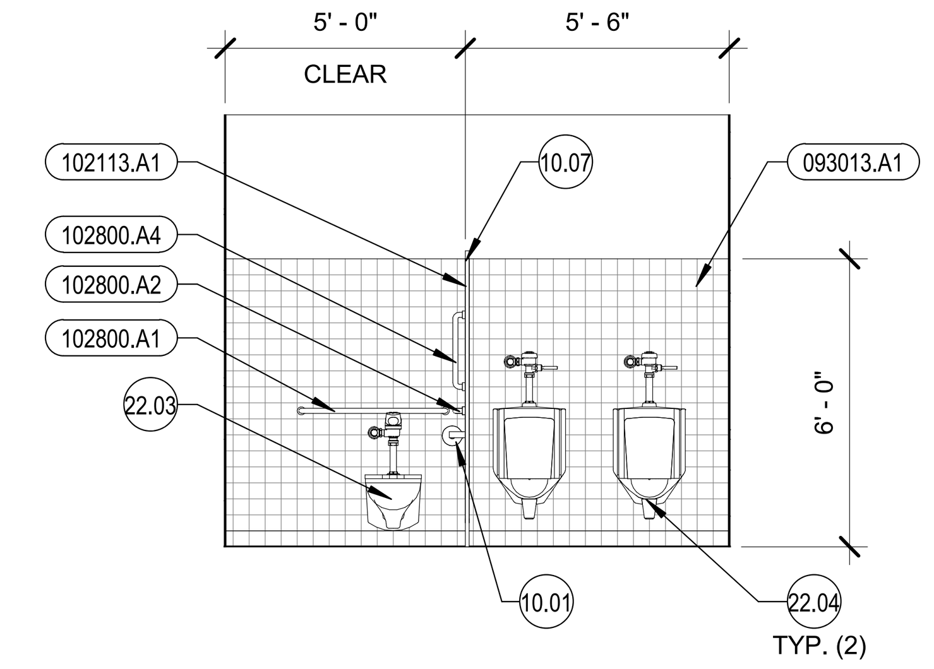


12 E113 MEN - NORTH
1/4" = 1'-0"



13 E113 MEN - SOUTH
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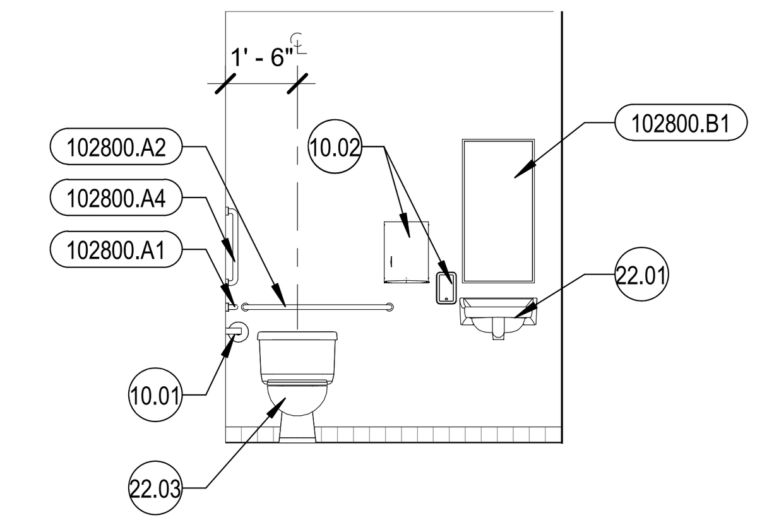
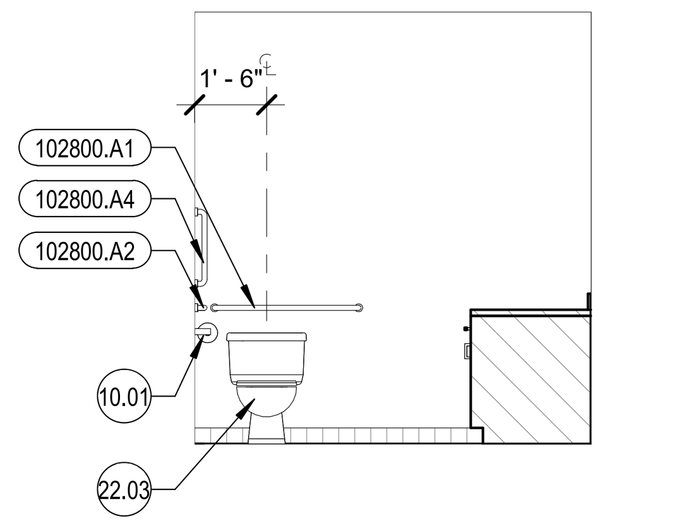
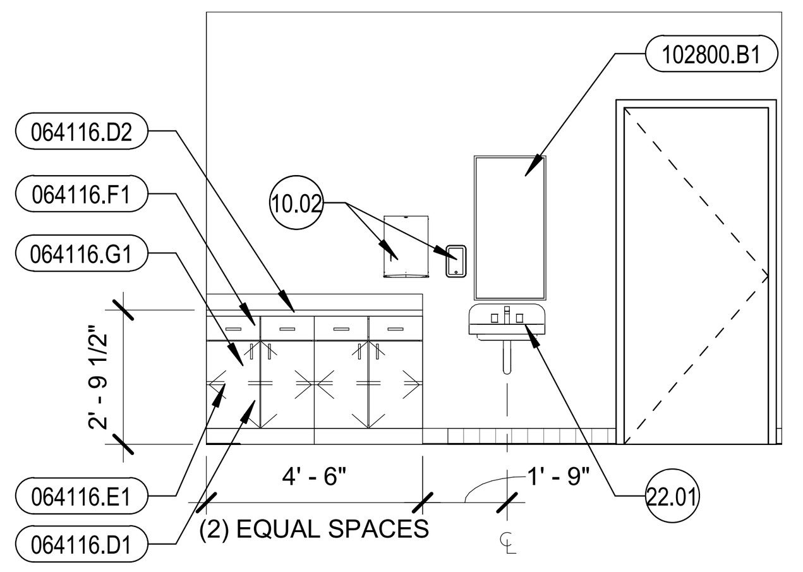


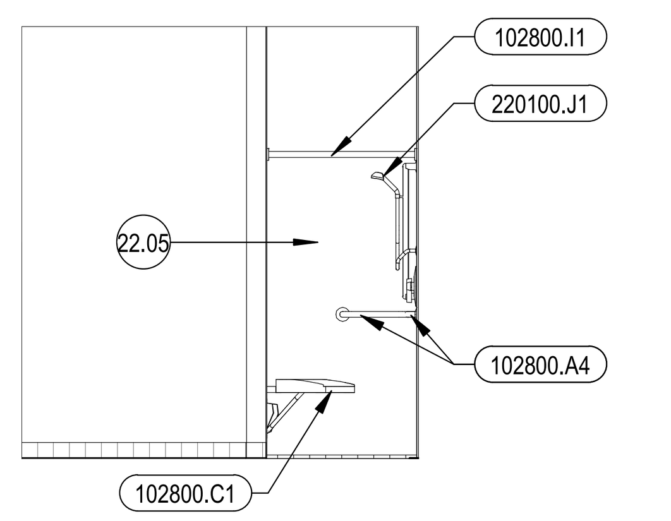
14 TOILET - KITCHEN
1/4" = 1'-0"



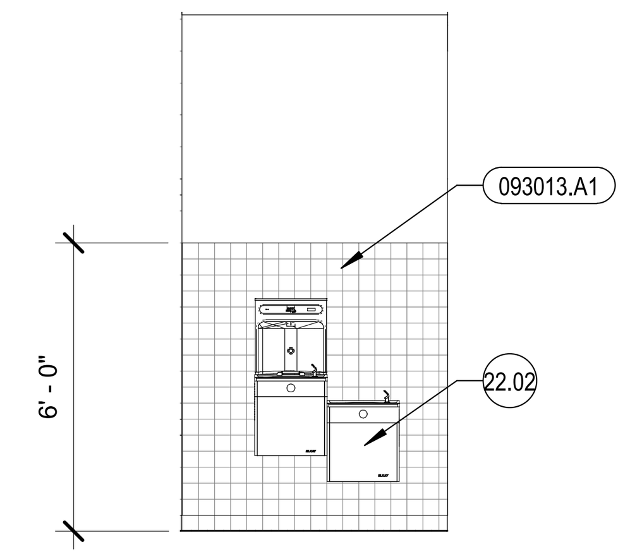
15 TOILET - RESOURCE - EAST
1/4" = 1'-0"



16 TOILET - RESOURCE - SOUTH
1/4" = 1'-0"



17 TOILET - RESOURCE - WEST
1/4" = 1'-0"



18 DRINKING FOUNTAIN - CAFETERIA
1/4" = 1'-0"

General Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
7. TYPICAL COUNTERTOP CONSTRUCTION SHALL BE MINIMUM 3/4" PARTICLE BOARD WITH HIGH PRESSURE DECORATIVE LAMINATE AT TOPS AND BACKSPLASHES WITH 1 1/2" FRONT SELF EDGE UNLESS NOTED OTHERWISE. PVC EDGE BANDING, 0.12", (3mm) THICK, MATCHING LAMINATE COLOR, PATTERN, AND FINISH, TO BE AT VERTICAL COUNTER TOP SURFACES. RADIUS OUTSIDE COUNTER CORNERS WITH 1" RADIUS.
8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

10.01	TOILET PAPER DISPENSER(S). O.F./C.I.
10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
10.07	PROVIDE FULL HEIGHT PARTITION(S) FOR (1) STALL.
22.01	SINK. SEE PLUMBING DOCUMENTS.
22.02	DUAL HEIGHT DRINKING FOUNTAIN. SEE PLUMBING DOCUMENTS.
22.03	TOILET. SEE PLUMBING DOCUMENTS.
22.04	URINAL. SEE PLUMBING DOCUMENTS.
22.05	SHOWER ASSEMBLY WITH COLLAPSIBLE THRESHHOLD. SEE PLUMBING DOCUMENTS.

Keyed Notes

064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
093013.A1	CERAMIC WALL TILE SYSTEM
102113.A1	TOILET COMPARTMENT PARTITION(S)
102113.B1	URINAL SCREEN
102800.A1	GRAB BAR, 36" LONG
102800.A2	GRAB BAR, 42" LONG
102800.A4	GRAB BAR, 18" LONG
102800.B1	MIRROR, 18" WIDE X 36" HIGH, FRAMED
102800.C1	FOLDING SHOWER SEAT
102800.I1	SHOWER CURTAIN ROD
220100.J1	SHOWER HEAD

LKV ARCHITECTS
2400 E. Riverwalk Drive
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#	Description	Date
Revisions		

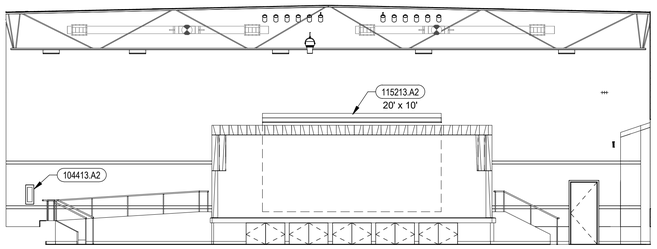
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

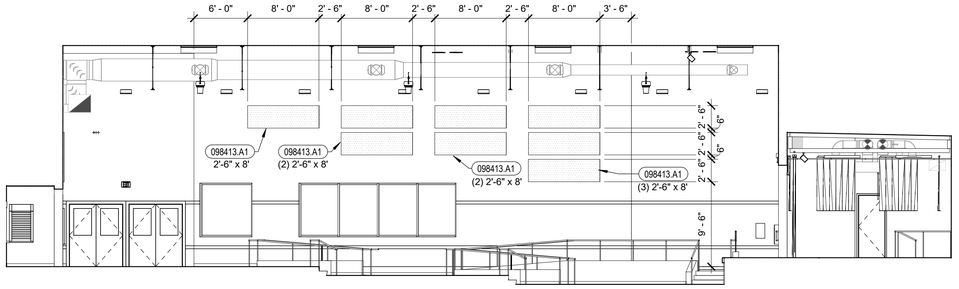
DRAWN BY: KB
CHECKED BY: BT

BID SET

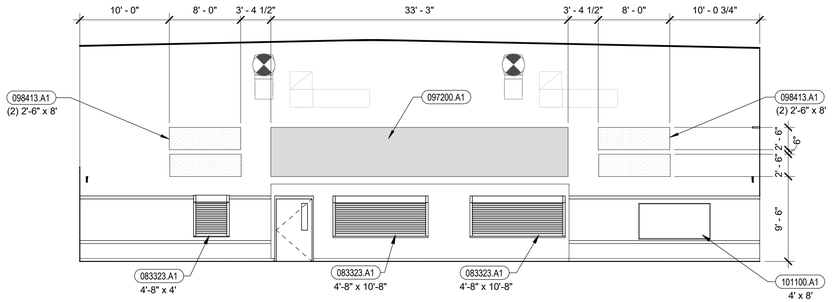
DRAWING NO.:
A9.1
INTERIOR ELEVATIONS



1 CAFETORIUM - NORTH
1/8" = 1'-0"



2 CAFETORIUM - WEST
1/8" = 1'-0"



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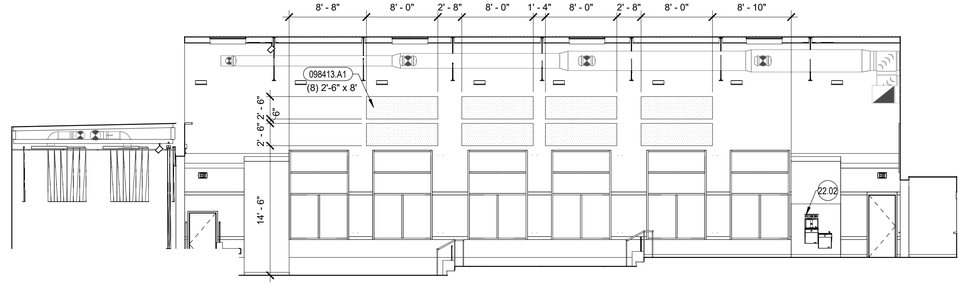
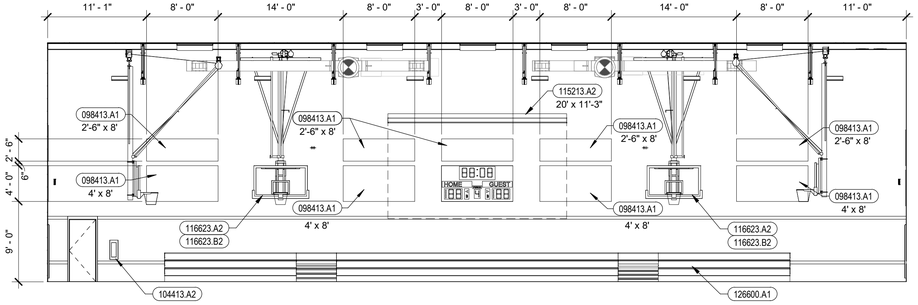
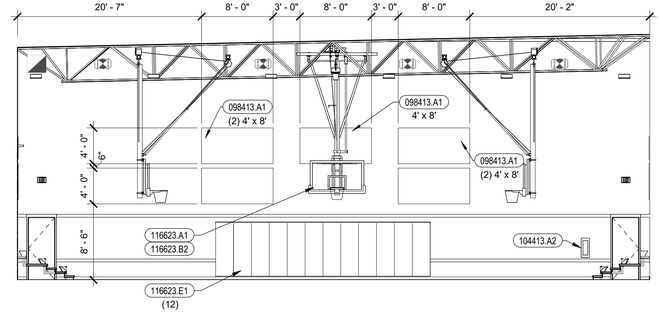


4 CAFETORIUM - EAST
1/8" = 1'-0"



5 GYMNASIUM - NORTH
1/8" = 1'-0"



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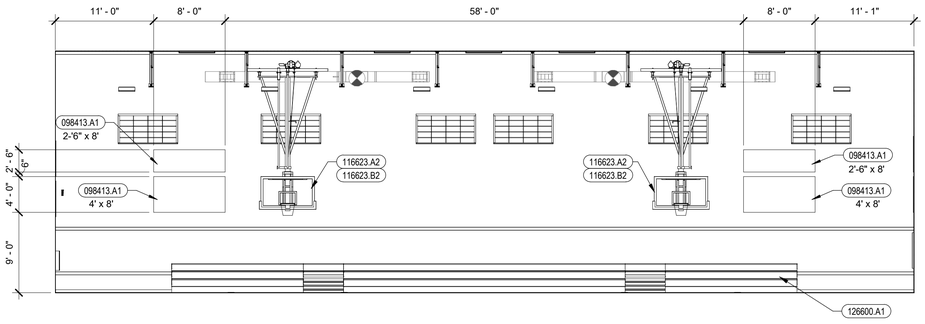
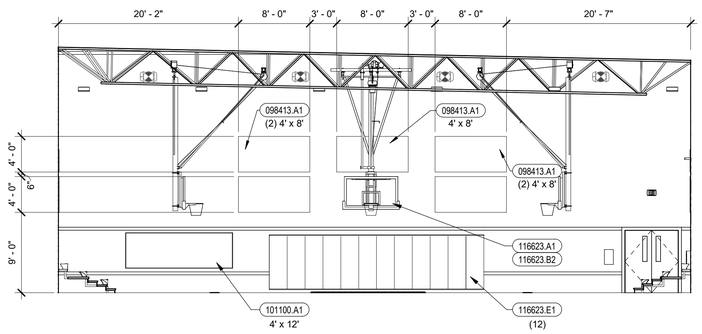


7 GYMNASIUM - SOUTH
1/8" = 1'-0"



8 GYMNASIUM - WEST
1/8" = 1'-0"

General Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
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8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

22.02	DUAL HEIGHT DRINKING FOUNTAIN. SEE PLUMBING DOCUMENTS.

Keyed Notes

083323.A1	OVERHEAD COILING DOOR
097200.A1	VINYL WALL COVERING
098413.A1	FIXED SOUND ABSORBING TECTUM WALL PANELS
101100.A1	PORCELAIN ENAMEL MARKERBOARD, FIXED
104413.A2	FIRE EXTINGUISHER CABINET, SURFACED MOUNTED
115213.A2	PROJECTION SCREEN, ELECTRIC, SIZE AS NOTED
116623.A1	BASKETBALL BACKSTOP - GLASS
116623.A2	BASKETBALL BACKSTOP - FIBERGLASS
116623.B2	BASKETBALL BACKSTOP SUPPORT - FORWARD FOLDING
116623.E1	GYMNASIUM WALL PADS (2' X 6')
126600.A1	TELESCOPING BLEACHERS, WALL ATTACHED, FORWARD FOLD

LKV ARCHITECTS
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LICENSED ARCHITECT
Brad Thurston
02/11/2022
STATE OF IDAHO

Revisions Description	Date	#

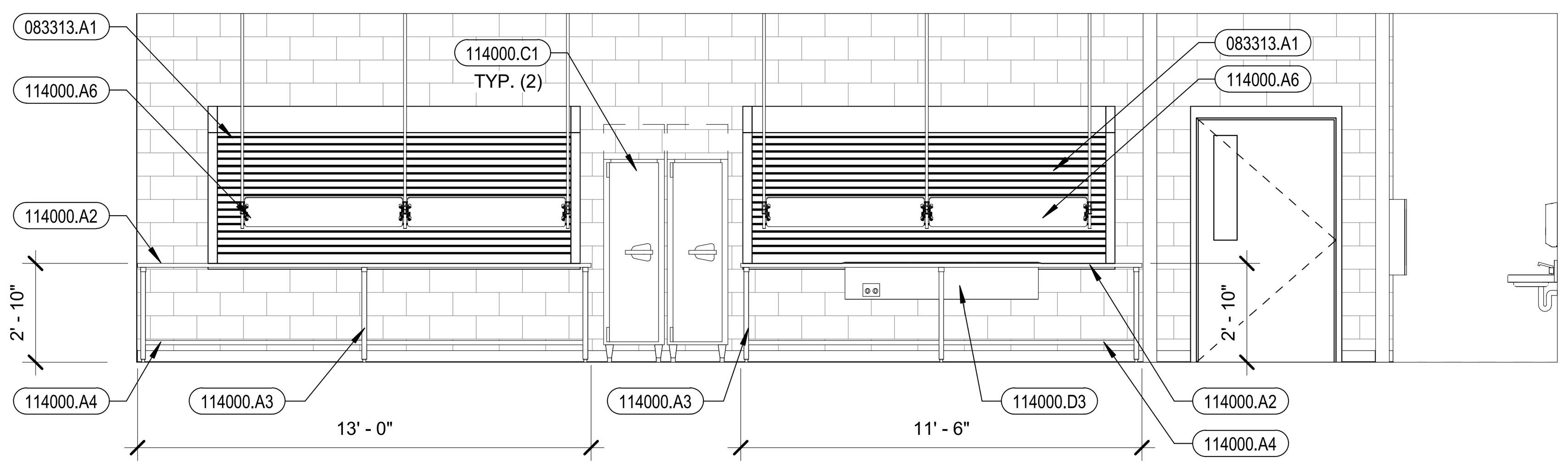
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

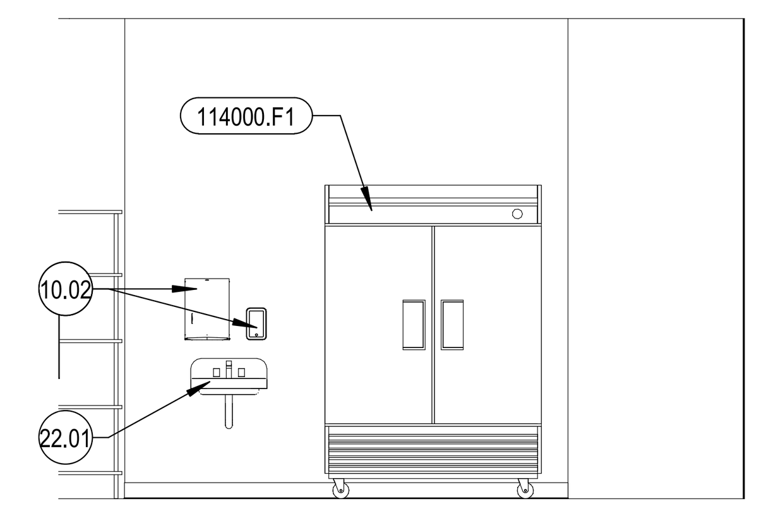
DRAWN BY: KB
CHECKED BY: BT

BID SET

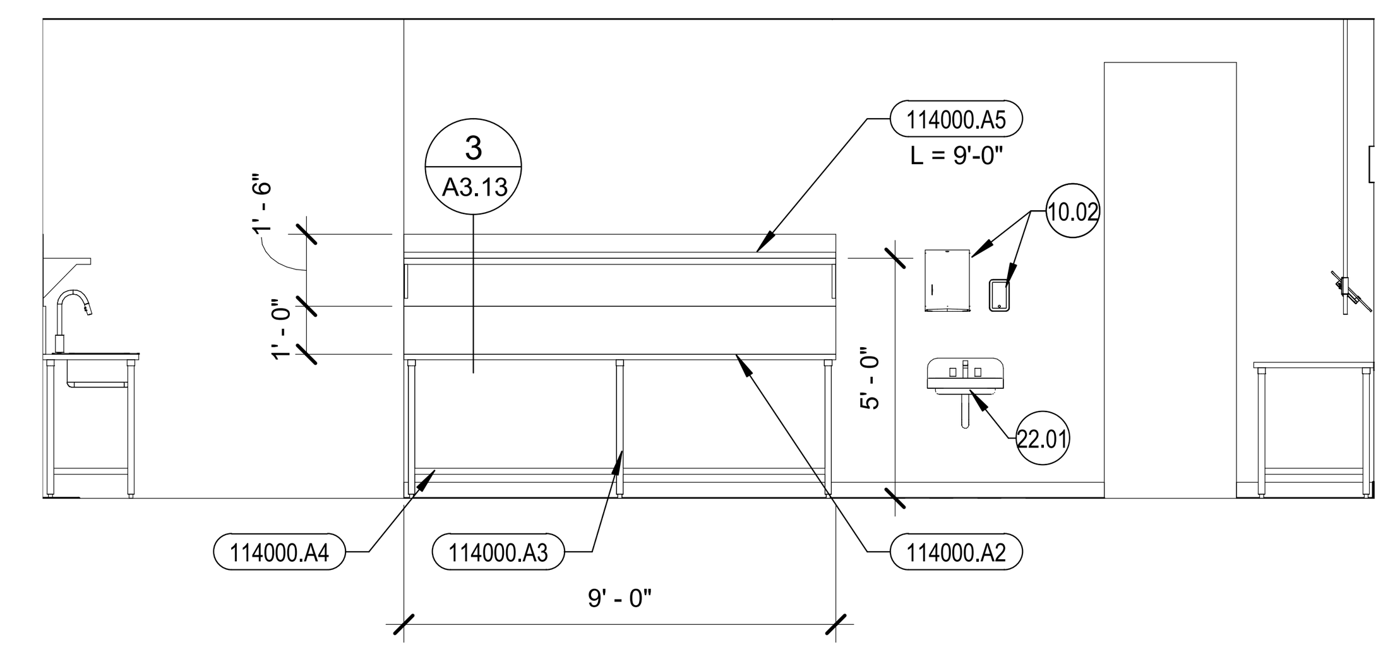
DRAWING NO.:
A9.2
INTERIOR ELEVATIONS



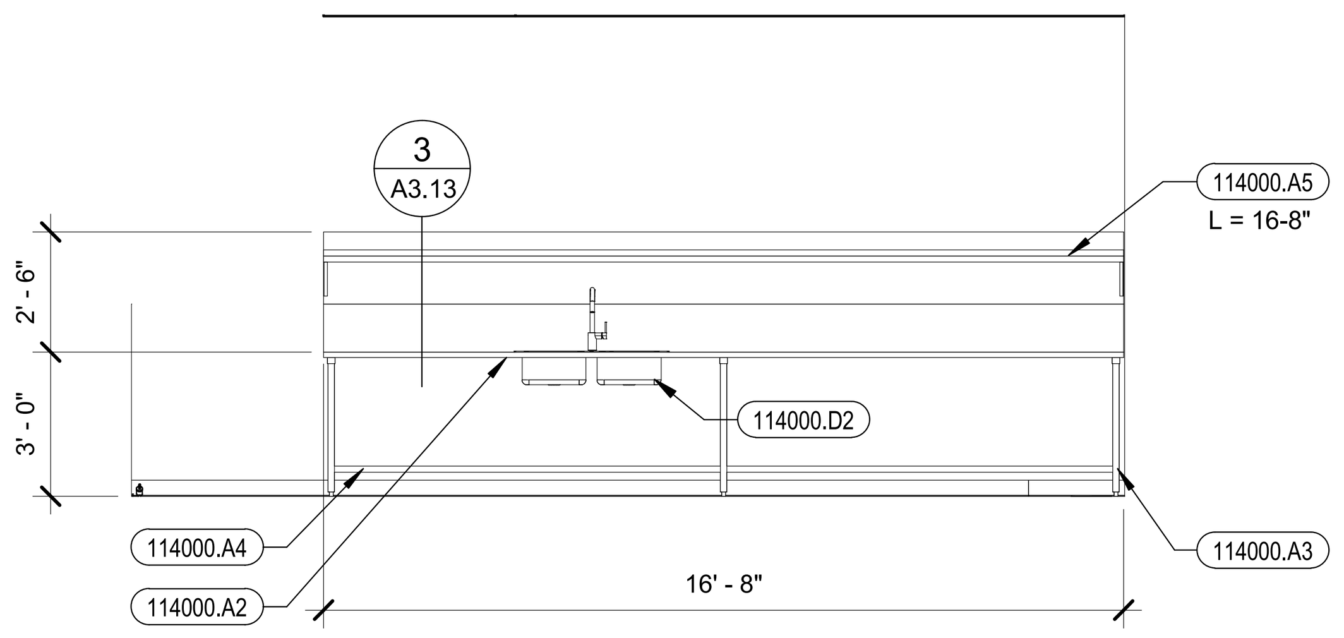
1 KITCHEN - NORTH
1/4" = 1'-0"



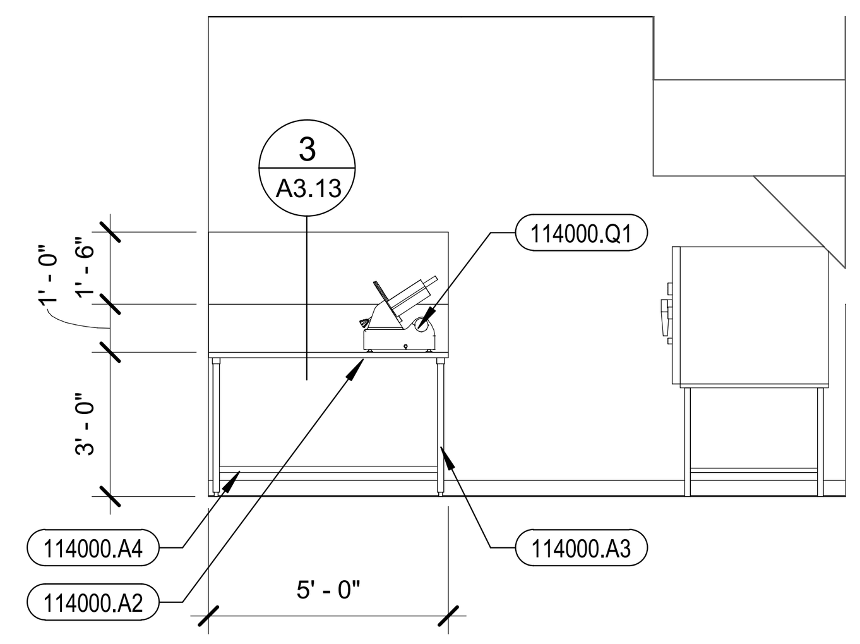
2 KITCHEN - EAST
1/4" = 1'-0"



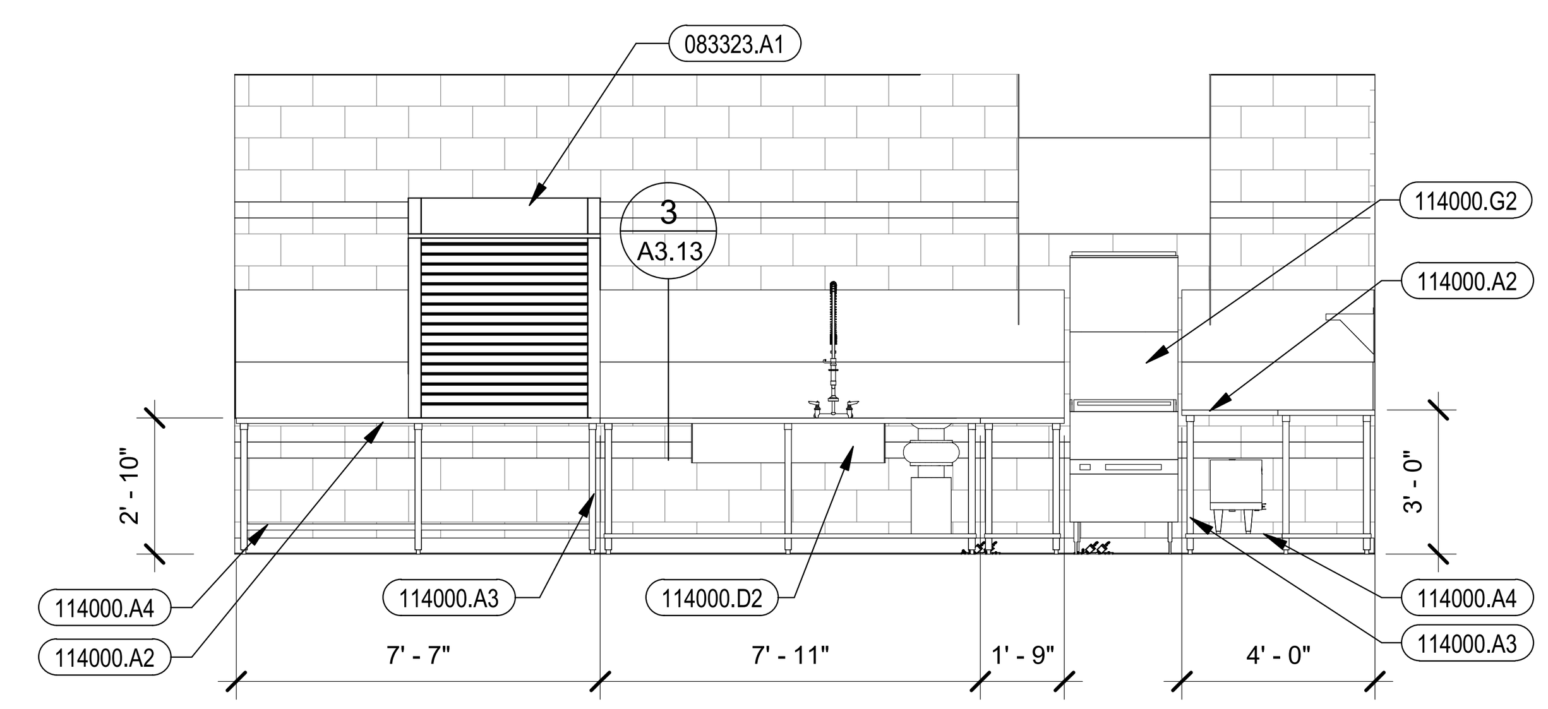
3 KITCHEN - WEST
1/4" = 1'-0"



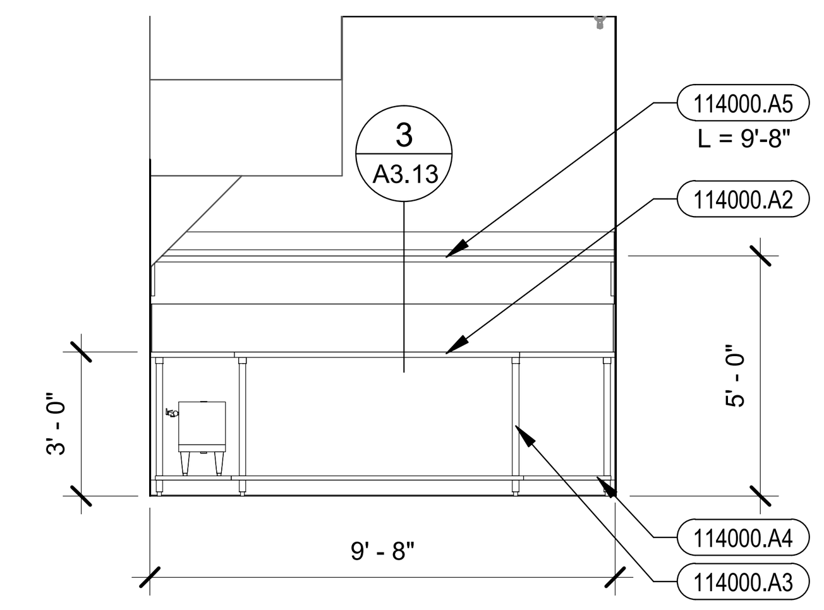
4 KITCHEN - SOUTH WORKTABLE AREA
1/4" = 1'-0"



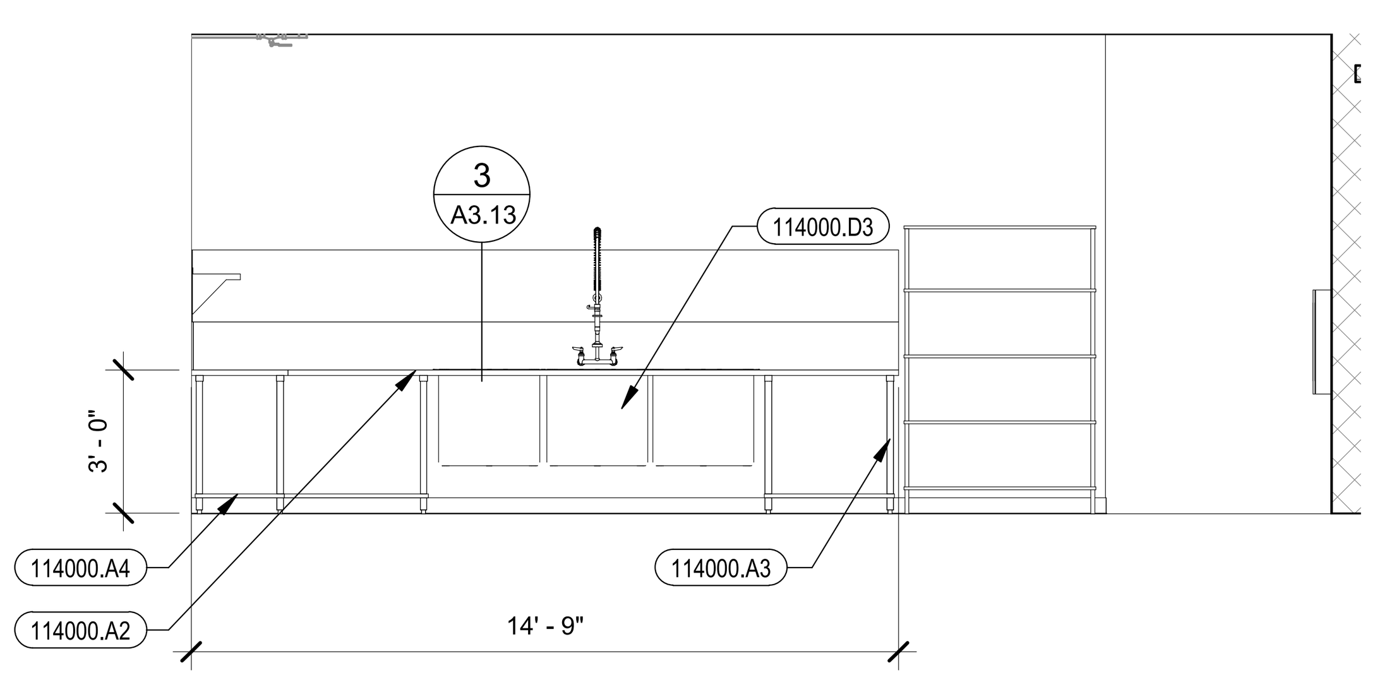
5 KITCHEN - SOUTH PREP AREA
1/4" = 1'-0"



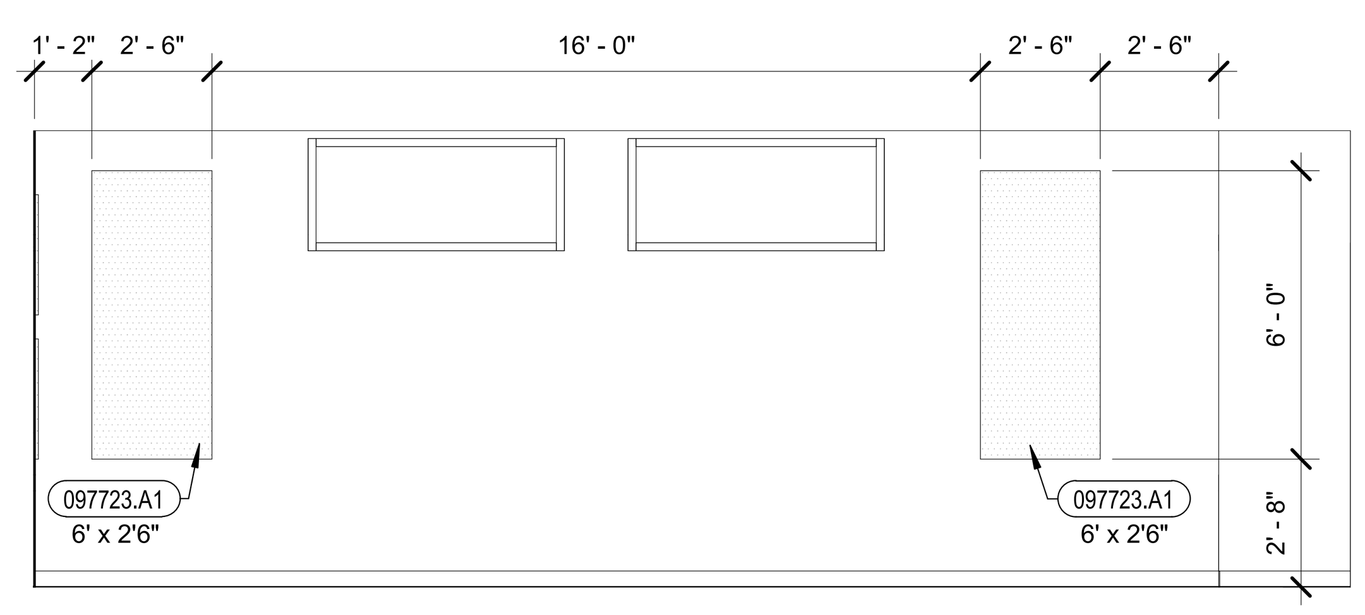
6 DISHWASH - NORTH
1/4" = 1'-0"



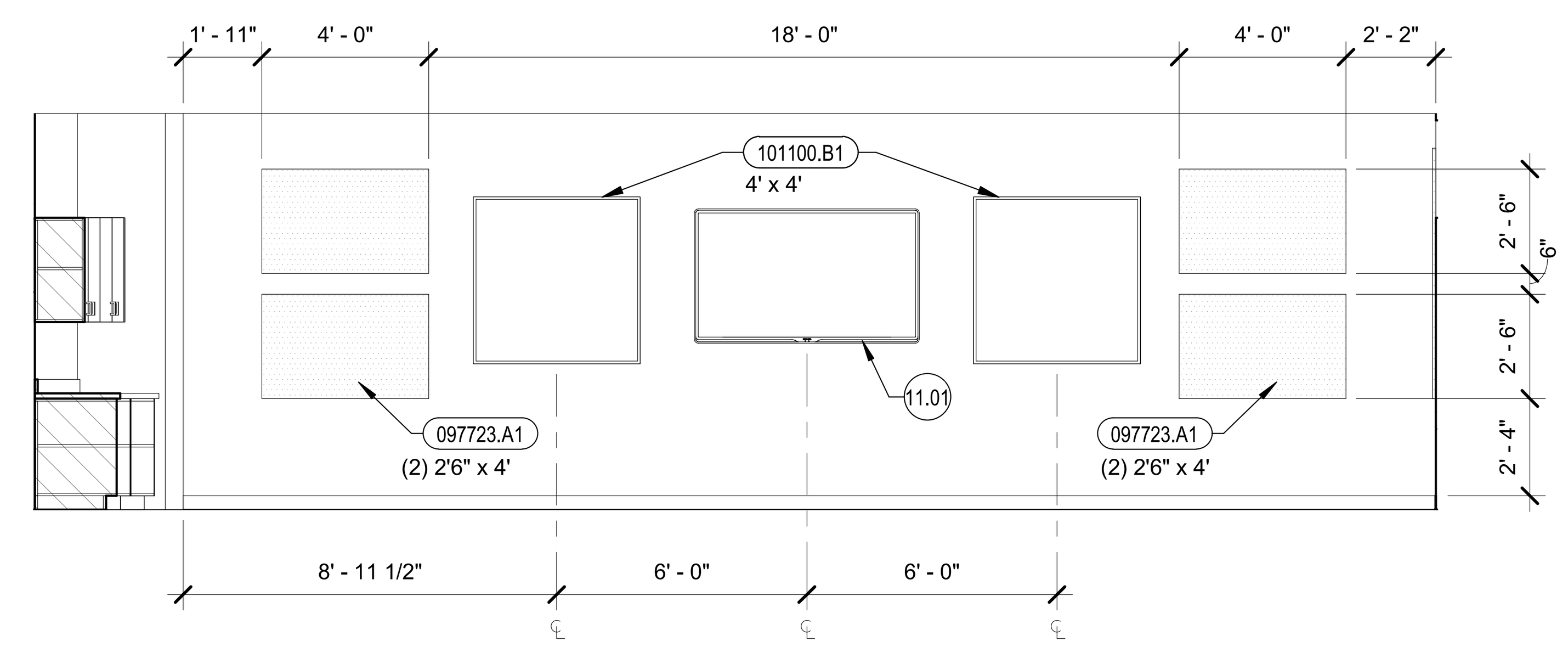
7 DISHWASH - EAST
1/4" = 1'-0"



8 DISHWASH - SOUTH
1/4" = 1'-0"



9 MUSIC CLASSROOM - NORTH
1/4" = 1'-0"



10 MUSIC CLASSROOM MILLWORK
1/4" = 1'-0"

General Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
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8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
11.01	O.F.C.I. FLAT SCREEN TV.
22.01	SINK. SEE PLUMBING DOCUMENTS.

Keyed Notes

083313.A1	COILING COUNTER DOOR
083323.A1	OVERHEAD COILING DOOR
097723.A1	FABRIC WRAPPED ACOUSTICAL PANELS
101100.A1	PORCELAIN ENAMEL MARKERBOARD, FIXED
101100.B1	VINYL FABRIC FACED CORK TACKBOARD
114000.A2	14 GA. STAINLESS STEEL COUNTER TOP WITH SPLASH
114000.A3	1" DIA 16 GA. GALVANIZED TUBULAR LEGS
114000.A4	14 GA. STAINLESS STEEL UNDER SHELF
114000.A5	14 GA. STAINLESS STEEL WALL SHELF
114000.A6	14 GA. STAINLESS STEEL SNEEZE GUARD
114000.C1	HOT FOOD WARMER / PROOFER
114000.D2	DOUBLE DROP-IN UNIT
114000.D3	TRIPLE DROP-IN UNIT
114000.F1	FREEZER (REACH-IN)
114000.G2	DISHWASHER
114000.Q1	SLICER

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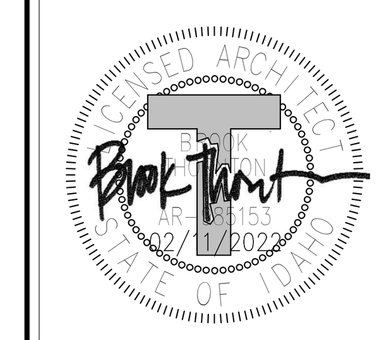


#	Revisions Description	Date

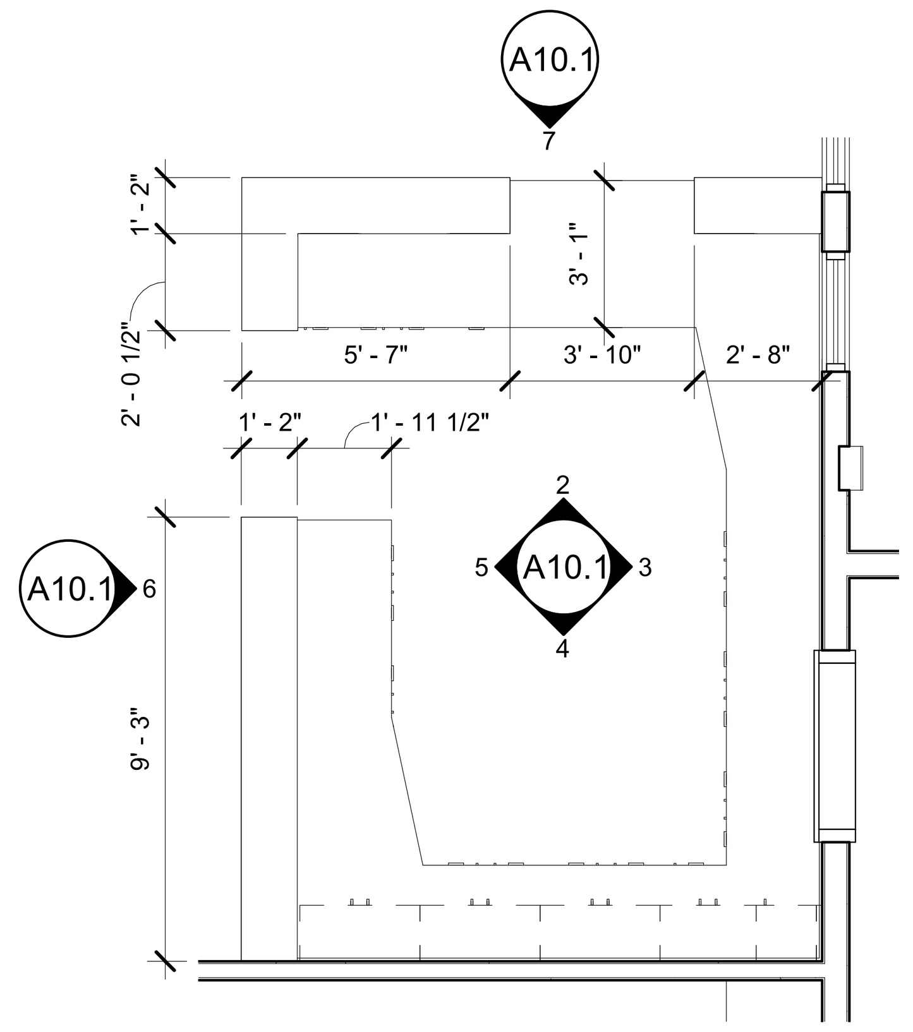
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

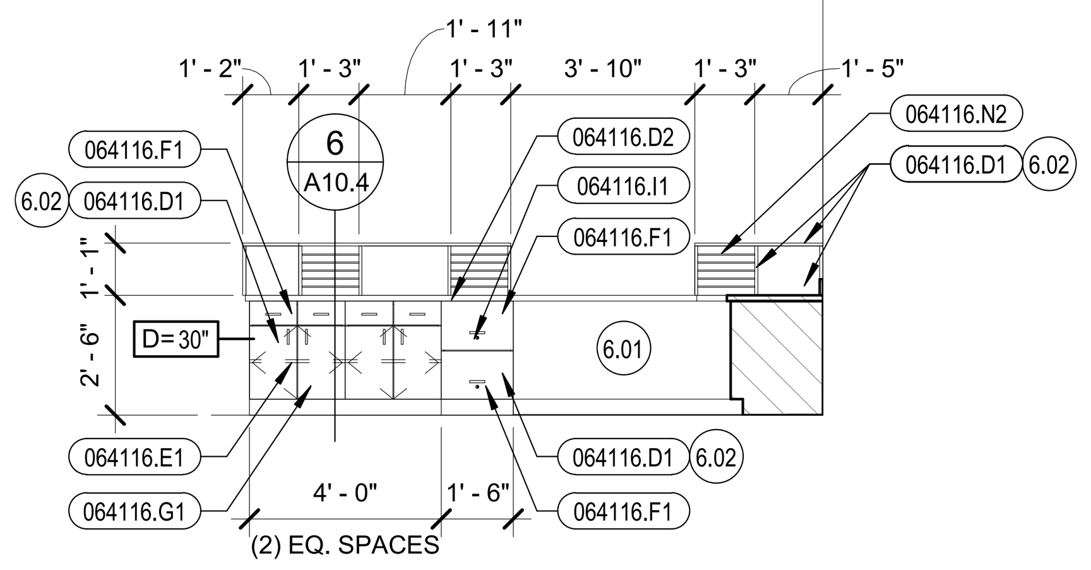
DRAWN BY: KB
CHECKED BY: BT

BID SET

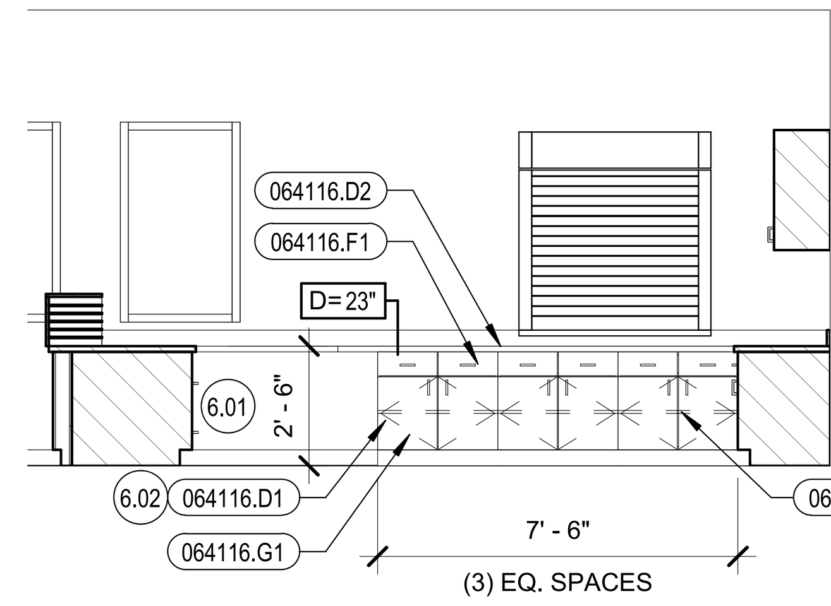
DRAWING NO.:
A9.3
INTERIOR ELEVATIONS



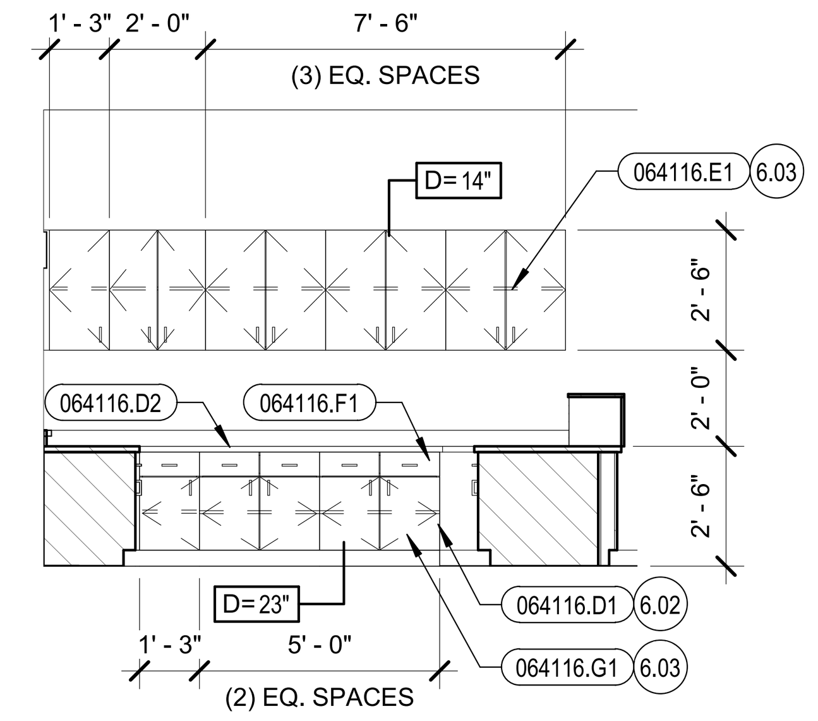
① ENLARGED FLOOR PLAN - RECEPTION
1/4" = 1'-0"



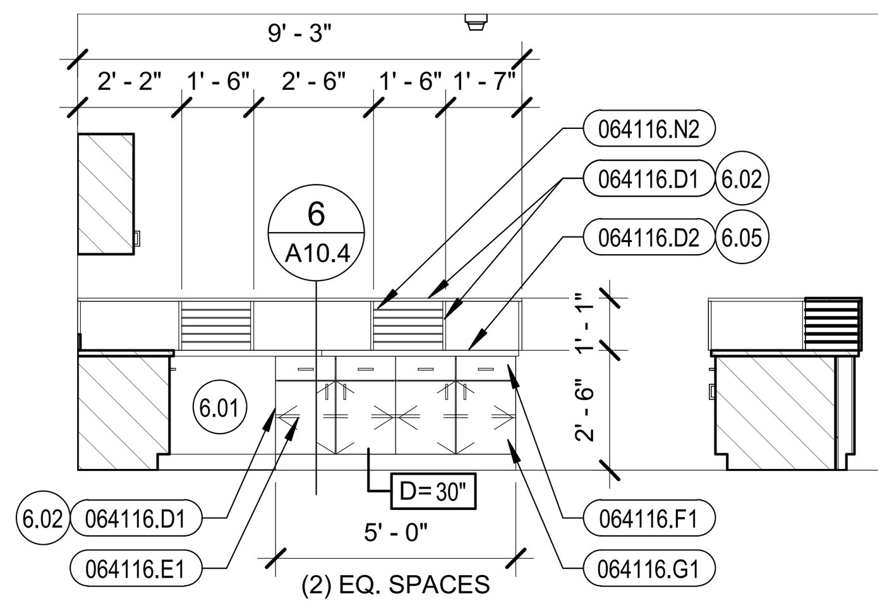
② RECEPTION - INTERIOR NORTH
1/4" = 1'-0"



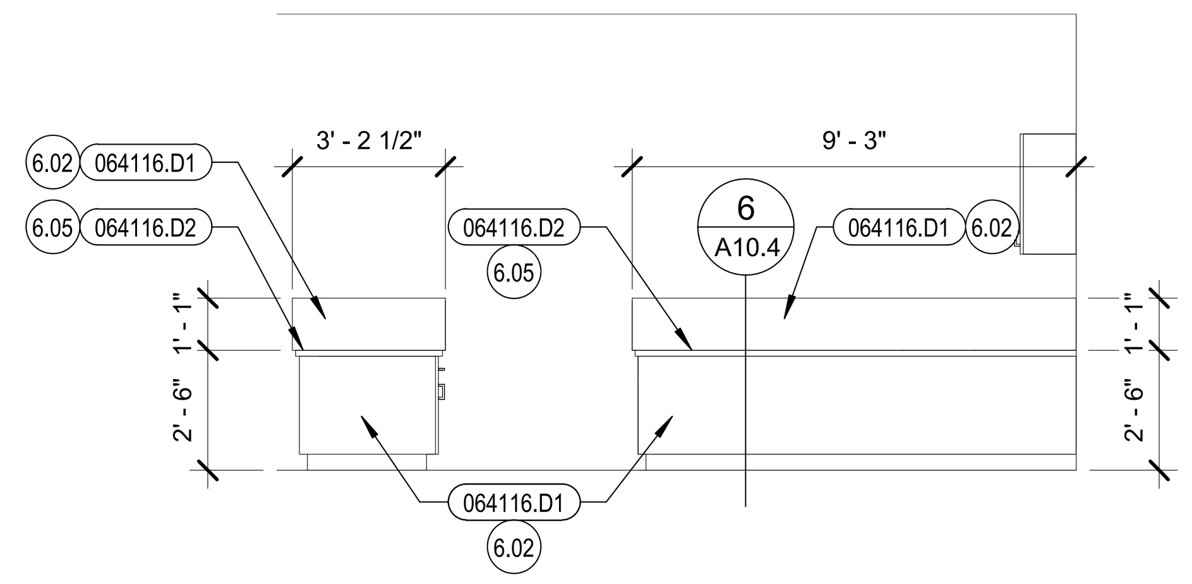
③ RECEPTION - INTERIOR EAST
1/4" = 1'-0"



④ RECEPTION - INTERIOR SOUTH
1/4" = 1'-0"



⑤ RECEPTION - INTERIOR WEST
1/4" = 1'-0"



⑥ RECEPTION - EXTERIOR SIDE
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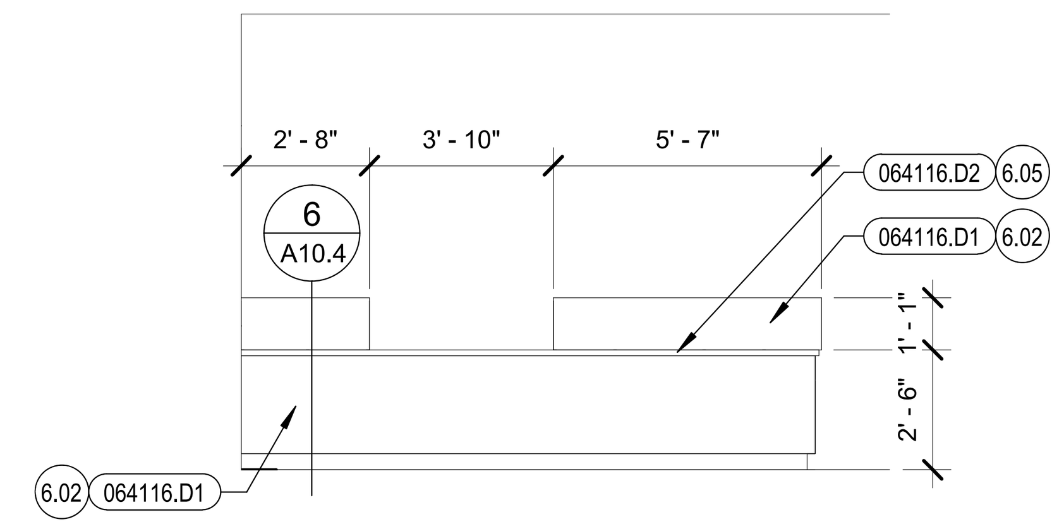
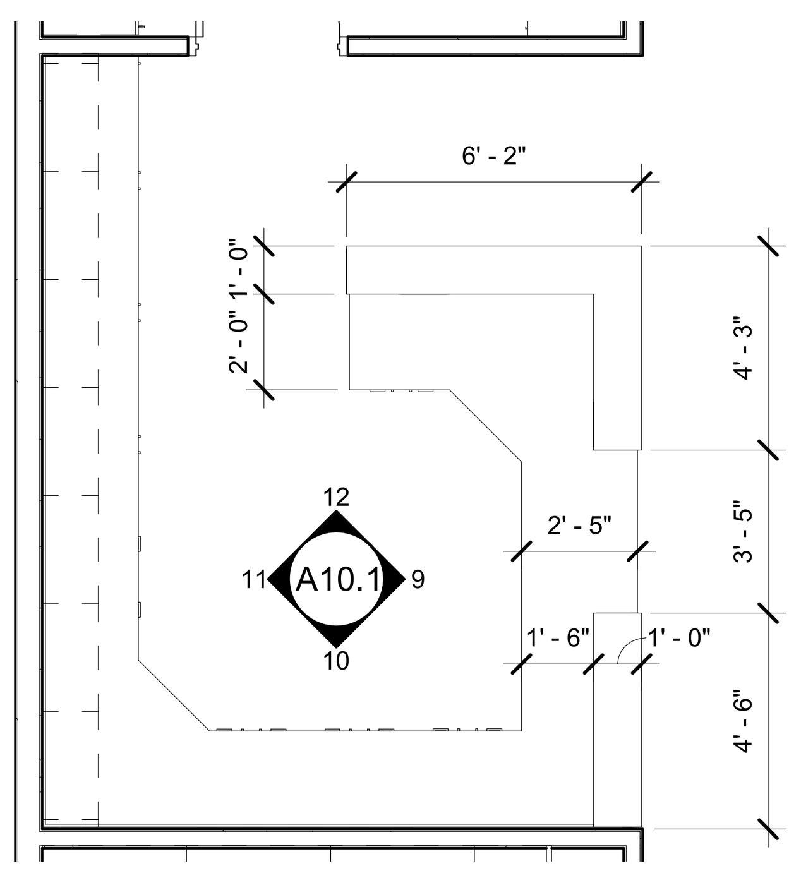
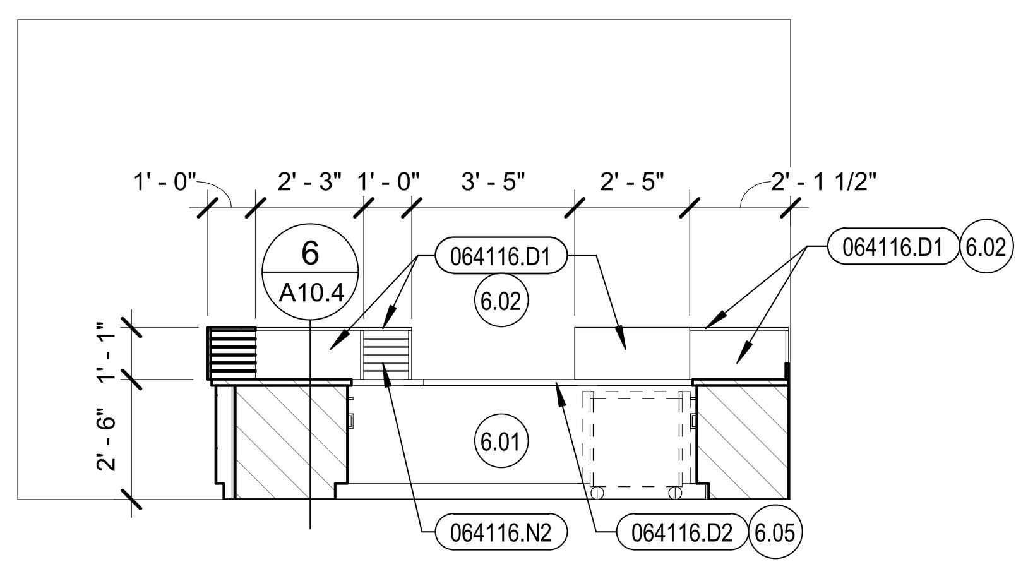


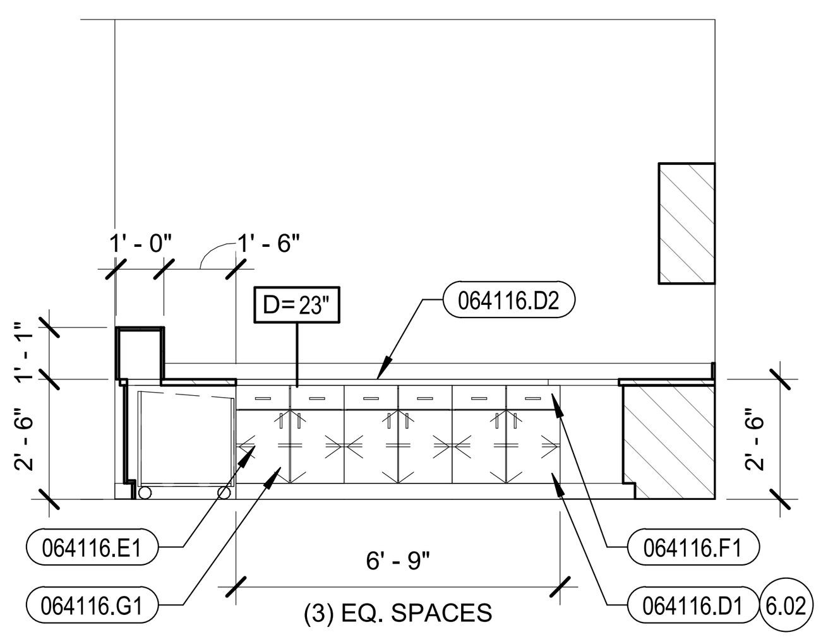
⑦ RECEPTION - EXTERIOR FRONT
1/4" = 1'-0"



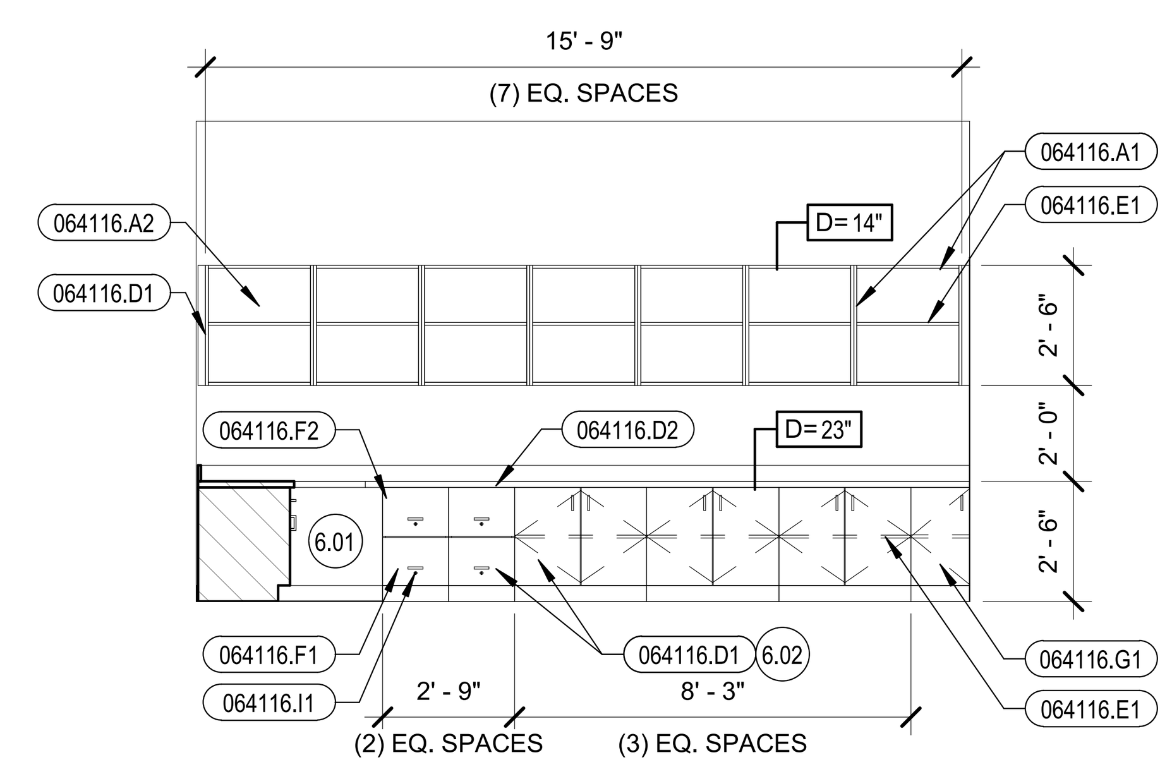
⑧ ENLARGED FLOOR PLAN - LIBRARY DESK
1/4" = 1'-0"



⑨ LIBRARY DESK - EAST
1/4" = 1'-0"



⑩ LIBRARY DESK - SOUTH
1/4" = 1'-0"



⑪ LIBRARY DESK - WEST
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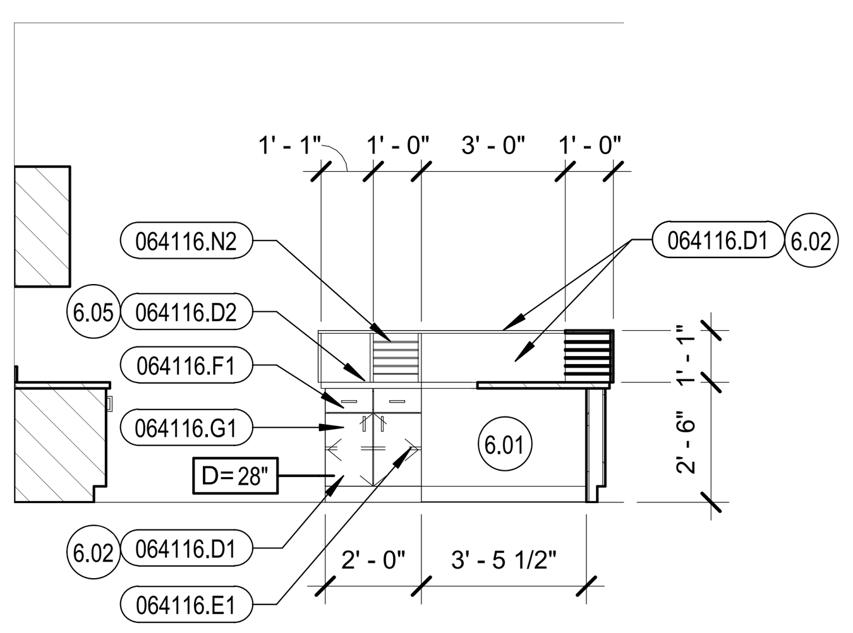

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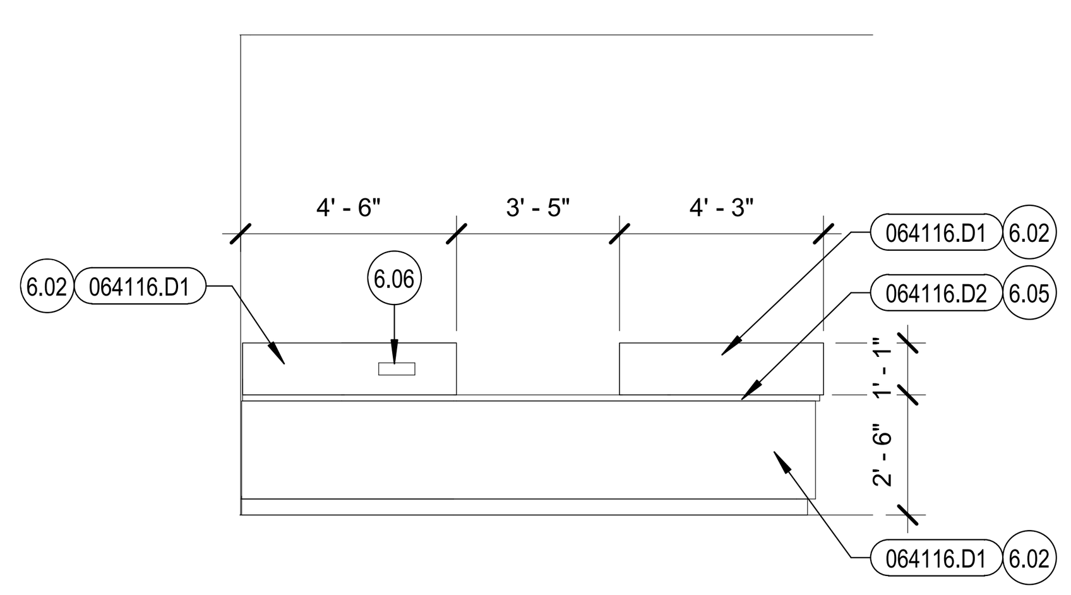

⑬ LIBRARY DESK - FRONT
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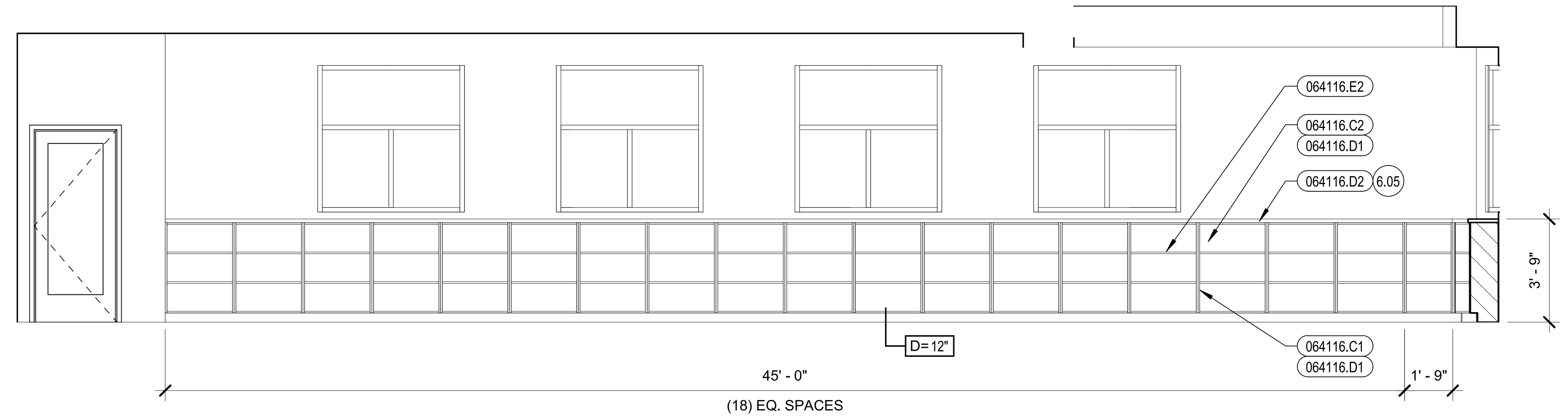
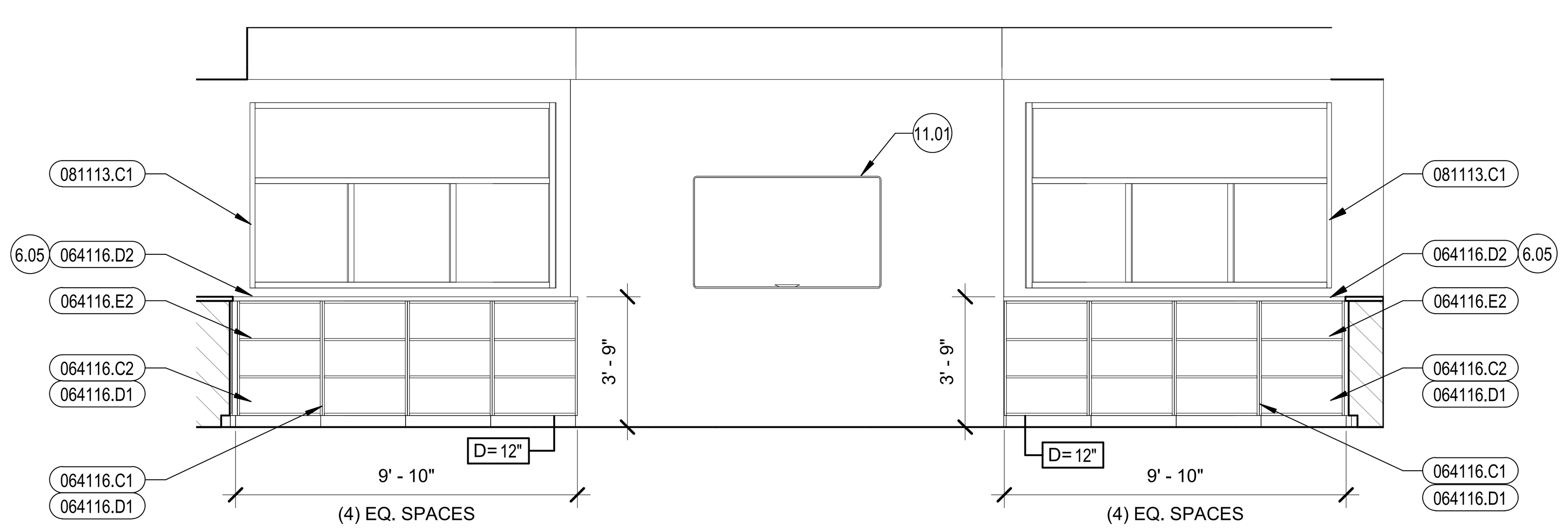


⑭ LIBRARY - NORTH
1/4" = 1'-0"



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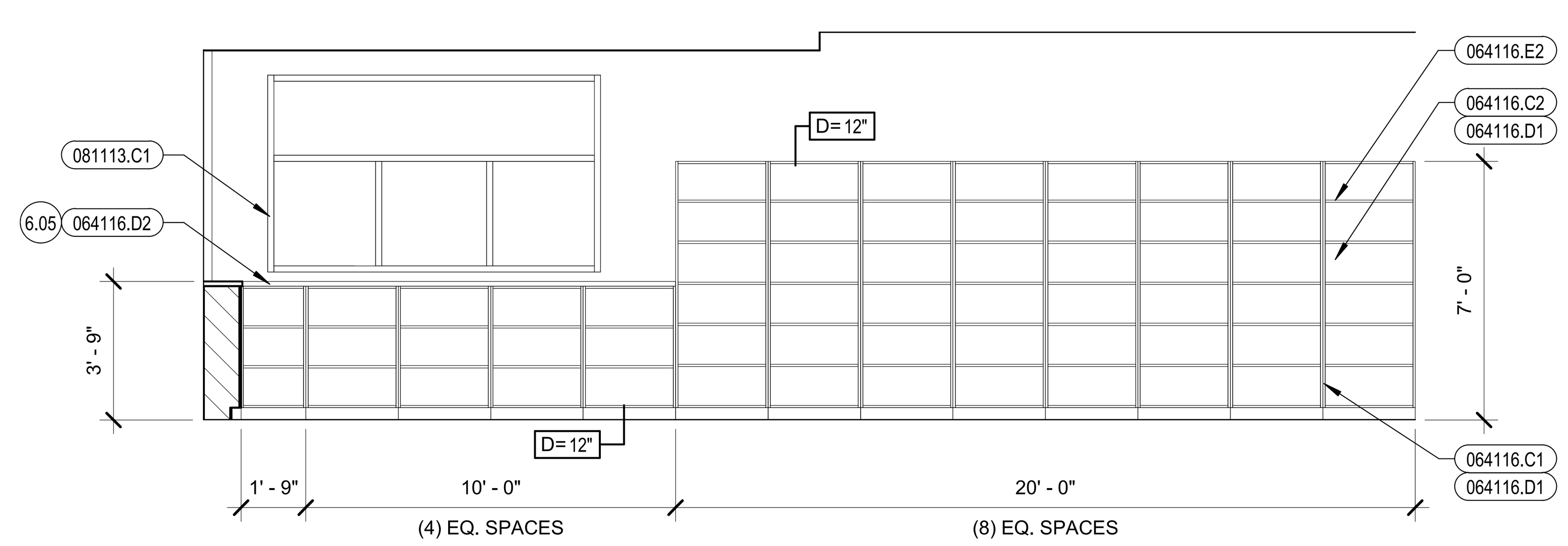
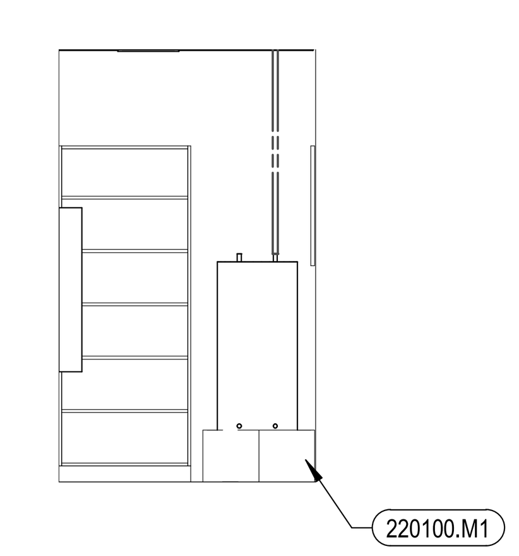
1/4" = 1'-0"



⑯ LIBRARY - SOUTH
1/4" = 1'-0"



⑰ JANITOR
1/4" = 1'-0"

General Millwork Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
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9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

6.01	KNEE SPACE, 2'-3" CLR. INSTALL (1) 3" DIA. RUBBER GROMMET (64116.M1) IN COUNTER ABOVE EACH KNEE SPACE EXCEPT AT SINK LOCATIONS. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
6.02	SIDE / END / LEG PANELS. TYPICAL AT UPPERS AND BASE CABINETS.
6.03	TYPICAL CABINET COMPONENT IDENTICAL AT UPPERS AND BASE CABINETS.
6.05	NO BACKSPLASH.
6.06	BOOK DROP SLOT. 12" X 3"
11.01	O.F.C.I. FLAT SCREEN TV.

Keyed Notes

064116.A1	3/4" MELAMINE COATED PARTICLE BOARD
064116.A2	1/2" MELAMINE COATED PARTICLE BOARD
064116.C1	3/4" PARTICLE BOARD
064116.C2	1/2" PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.E2	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 1" PARTICLE BOARD W/ H.P. DECORATIVE LAMINATE
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.F2	HANGING FILE TRACK
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
064116.I1	CYLINDER LOCK
064116.N2	1/4" PLEXIGLASS SHELVES
081113.C1	HOLLOW METAL GLAZING FRAME
220100.M1	MOP SINK

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706

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208.336.3443

#	Description	Date
Revisions		

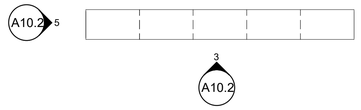
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

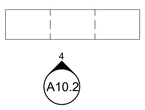
DRAWN BY: KB
CHECKED BY: BT

BID SET

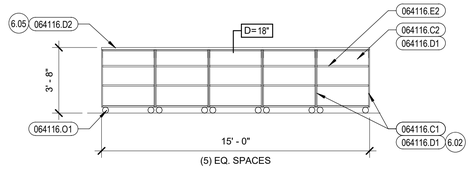
DRAWING NO.:
A10.1
MILLWORK



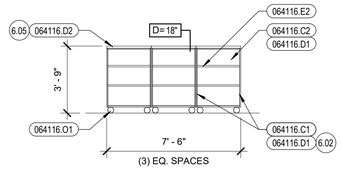
1 ENLARGED FLOOR PLAN - BOOK SHELVES
1/4" = 1'-0"



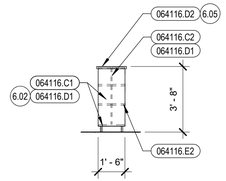
2 ENLARGED FLOOR PLAN - BOOKSHELVES 2
1/4" = 1'-0"



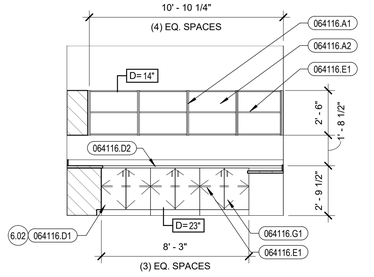
3 BOOK SHELVES - VIEW A
1/4" = 1'-0"



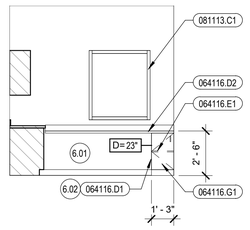
4 BOOK SHELVES - VIEW B
1/4" = 1'-0"



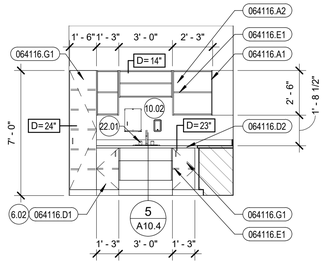
5 BOOKSHELVES - VIEW C
1/4" = 1'-0"



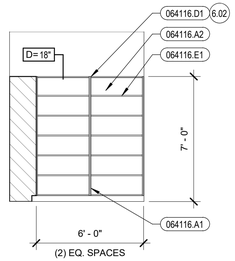
6 LIB. WORKROOM - NORTH
1/4" = 1'-0"



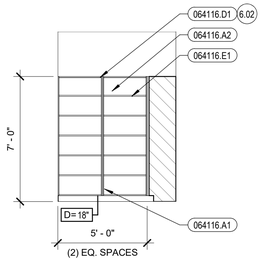
7 LIB. WORKROOM - EAST
1/4" = 1'-0"



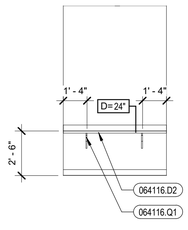
8 LIB. WORKROOM - WEST
1/4" = 1'-0"



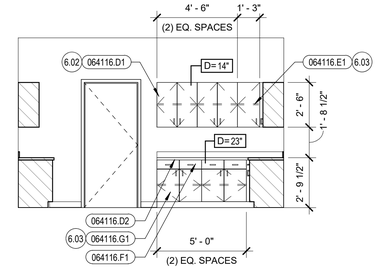
9 C106 STORAGE - SOUTH
1/4" = 1'-0"



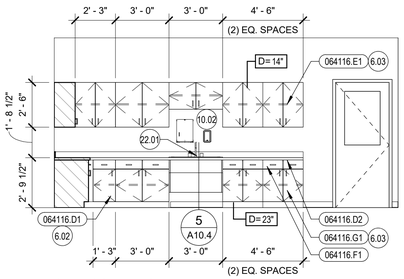
10 C106 STORAGE - EAST
1/4" = 1'-0"



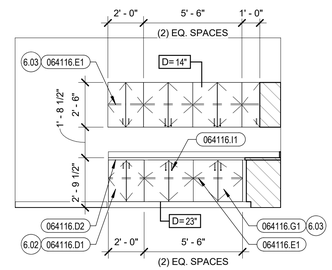
11 TYP. T.O.
1/4" = 1'-0"



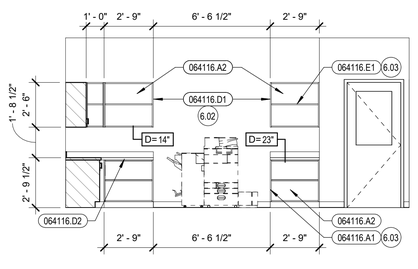
12 WORKROOM - NORTH
1/4" = 1'-0"



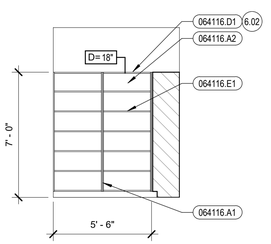
13 WORKROOM - EAST
1/4" = 1'-0"



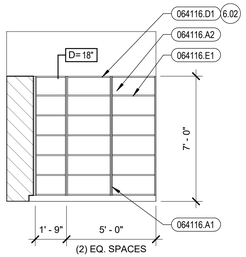
14 WORKROOM - SOUTH
1/4" = 1'-0"



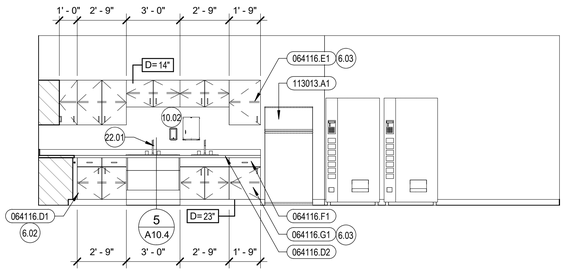
15 WORKROOM - WEST
1/4" = 1'-0"



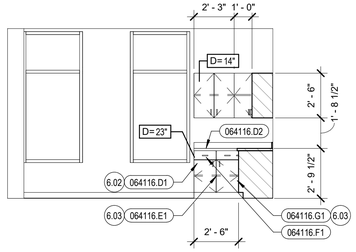
16 C105 STORAGE - WEST
1/4" = 1'-0"



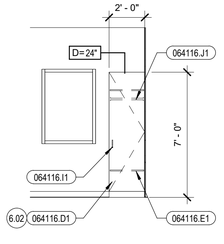
17 C105 STORAGE - NORTH
1/4" = 1'-0"



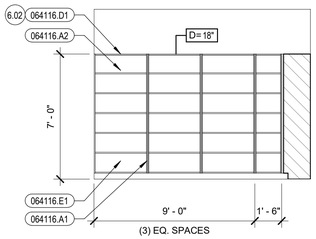
18 FACULTY - WEST
1/4" = 1'-0"



19 FACULTY - SOUTH
1/4" = 1'-0"



20 C108 AND C110 OFFICE MILLWORK
1/4" = 1'-0"



21 C117 STORAGE - NORTH
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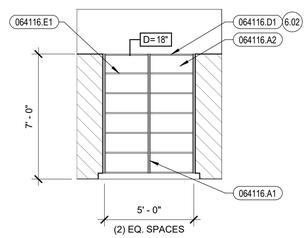
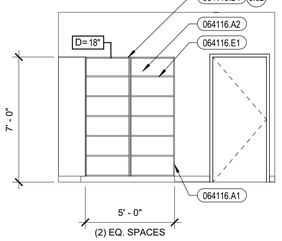
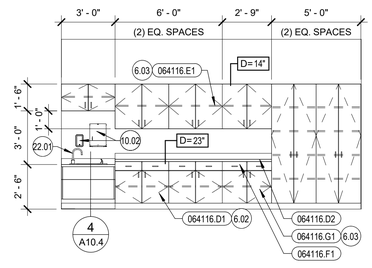


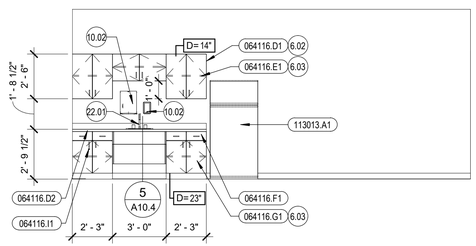
22 C117 STORAGE - EAST
1/4" = 1'-0"



23 C117 STORAGE - SOUTH
1/4" = 1'-0"



24 C121 AND C122 RESOURCE MILLWORK
1/4" = 1'-0"



25 C104 NURSE
1/4" = 1'-0"

General Millwork Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
7. TYPICAL COUNTERTOP CONSTRUCTION SHALL BE MINIMUM 3/4" PARTICLE BOARD WITH HIGH PRESSURE DECORATIVE LAMINATE AT TOPS AND BACKSPLASHES WITH 1 1/2" FRONT SELF EDGE UNLESS NOTED OTHERWISE. PVC EDGE BANDING, 0.12", (3mm) THICK, MATCHING LAMINATE COLOR, PATTERN, AND FINISH, TO BE AT VERTICAL COUNTER TOP SURFACES. RADIUS OUTSIDE COUNTER CORNERS WITH 1" RADIUS.
8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

6.01	KNEE SPACE, 2'-3" CLR. INSTALL (1) 3" DIA. RUBBER GROMMET (64116.M1) IN COUNTER ABOVE EACH KNEE SPACE EXCEPT AT SINK LOCATIONS. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
6.02	SIDE / END / LEG PANELS. TYPICAL AT UPPERS AND BASE CABINETS.
6.03	TYPICAL CABINET COMPONENT IDENTICAL AT UPPERS AND BASE CABINETS.
6.05	NO BACKSPLASH.
10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
22.01	SINK. SEE PLUMBING DOCUMENTS.

Keyed Notes

064116.A1	3/4" MELAMINE COATED PARTICLE BOARD
064116.A2	1/2" MELAMINE COATED PARTICLE BOARD
064116.C1	3/4" PARTICLE BOARD
064116.C2	1/2" PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.E2	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 1" PARTICLE BOARD W/ H.P. DECORATIVE LAMINATE
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
064116.I1	CYLINDER LOCK
064116.J1	HANGER ROD
064116.O1	4" DIA. PIVOTING CASTER(S)
064116.Q1	STEEL ANGLE COUNTER SUPPORTS, MIN. 2'-6" O.C.
081113.C1	HOLLOW METAL GLAZING FRAME
113013.A1	REFRIGERATOR

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LICENSED ARCHITECT
Brock Thurston
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

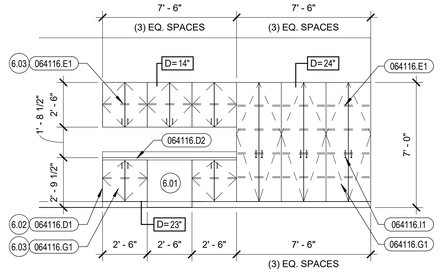
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

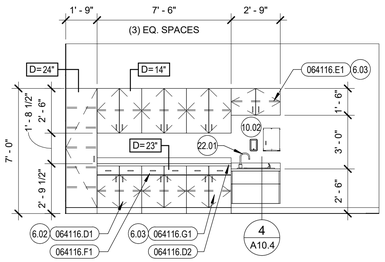
DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:
A10.2
MILLWORK



1 A119 COMPUTER LAB
1/4" = 1'-0"



2 A121 E.L.
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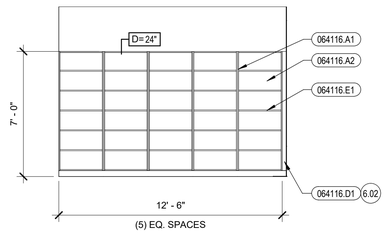
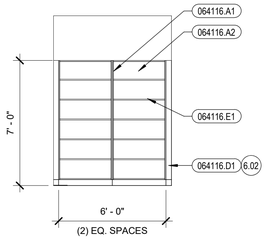


3 C125 STORAGE
1/4" = 1'-0"



4 E102 STORAGE
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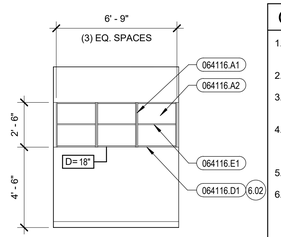
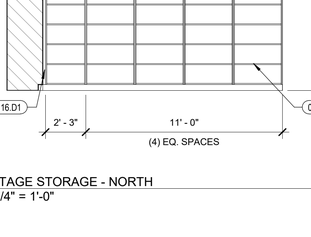
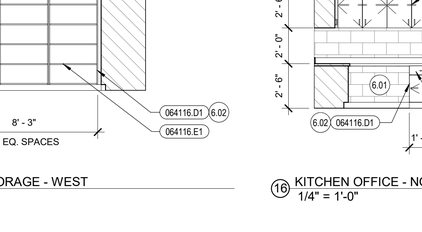


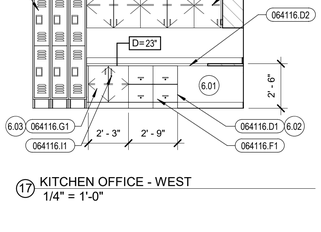
5 E109 JANITOR
1/4" = 1'-0"



7 P.E. STORAGE - SOUTH
1/4" = 1'-0"



8 RECEIVING - NORTH
1/4" = 1'-0"



9 RECEIVING - WEST
1/4" = 1'-0"

10 RECEIVING - SOUTH
1/4" = 1'-0"

11 MUSIC CLASSROOM - SOUTH
1/4" = 1'-0"

12 MUSIC STORAGE - EAST
1/4" = 1'-0"

13 MUSIC STORAGE - SOUTH
1/4" = 1'-0"

14 STAGE STORAGE - NORTH
1/4" = 1'-0"

15 STAGE STORAGE - WEST
1/4" = 1'-0"

16 KITCHEN OFFICE - NORTH
1/4" = 1'-0"

17 KITCHEN OFFICE - WEST
1/4" = 1'-0"

18 MAIL MILLWORK
1/4" = 1'-0"

General Millwork Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
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3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
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8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

6.01	KNEE SPACE, 2'-3" CLR. INSTALL (1) 3" DIA. RUBBER GROMMET (64116.M1) IN COUNTER ABOVE EACH KNEE SPACE EXCEPT AT SINK LOCATIONS. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL.
6.02	SIDE / END / LEG PANELS. TYPICAL AT UPPERS AND BASE CABINETS.
6.03	TYPICAL CABINET COMPONENT IDENTICAL AT UPPERS AND BASE CABINETS.
10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
22.01	SINK. SEE PLUMBING DOCUMENTS.

Keyed Notes

064116.A1	3/4" MELAMINE COATED PARTICLE BOARD
064116.A2	1/2" MELAMINE COATED PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
064116.I1	CYLINDER LOCK
105113.C2	METAL DRESSING LOCKERS, DOUBLE TIER.

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208.336.3443

LICENSED ARCHITECT
Brock Thrift
02/11/2022
STATE OF IDAHO

#	Revisions Description	Date

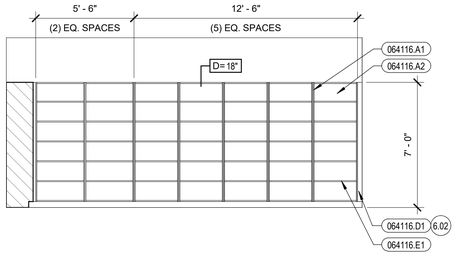
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

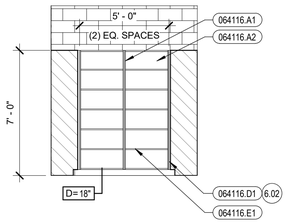
DRAWN BY: KB
CHECKED BY: BT

BID SET

DRAWING NO.:
A10.3
MILLWORK



1 B118 STORAGE - WEST
1/4" = 1'-0"



2 B118 STORAGE - SOUTH
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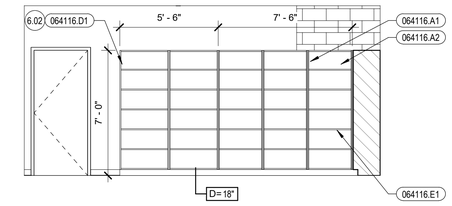

3 B118 STORAGE - EAST
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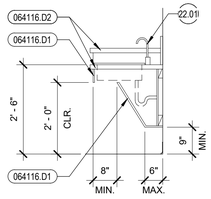
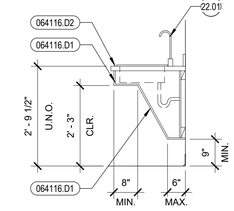
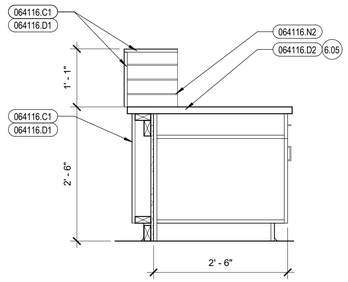


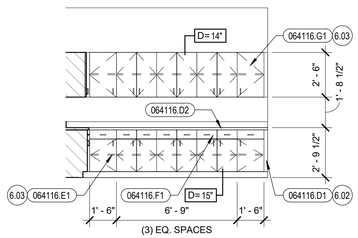
4 ADA SINK SECTION
1/2" = 1'-0"



5 ADA SINK SECTION
1/2" = 1'-0"



6 DESK SECTION
3/4" = 1'-0"



7 C123 CLASSROOM - SOUTH
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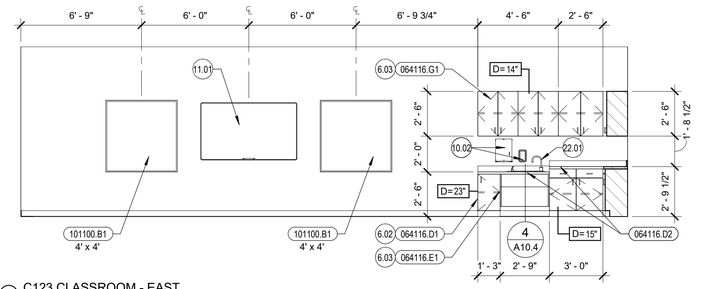
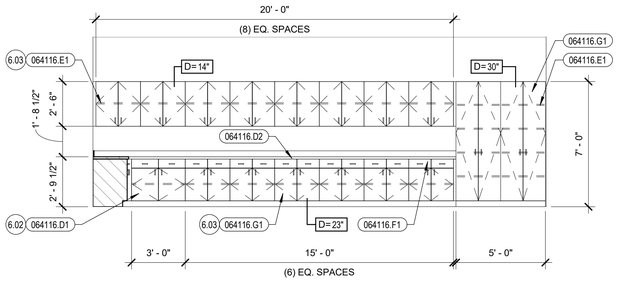
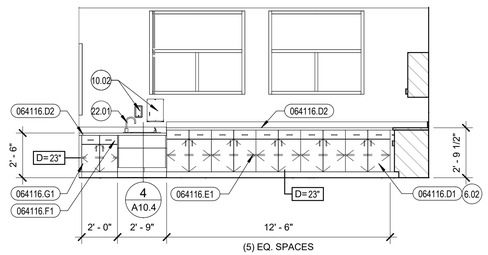


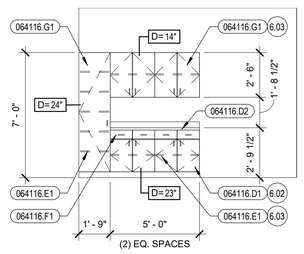
8 C123 CLASSROOM - EAST
1/4" = 1'-0"



9 TALENTED AND GIFTED - NORTH
1/4" = 1'-0"



10 TALENTED AND GIFTED - WEST
1/4" = 1'-0"



11 A122 READING MILLWORK
1/4" = 1'-0"

General Notes

1. FIELD VERIFY ALL ROOM DIMENSIONS PRIOR TO FABRICATION OF MILLWORK AND ADJUST MILLWORK DIMENSIONS ACCORDINGLY.
2. ALL COUNTERTOP SPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE.
3. ALL TOE KICK SPACES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE. FURNISH AND INSTALL 4" BASE MATERIAL TO MATCH ROOM, TYPICAL
4. FURNISH AND INSTALL SOLID WOOD BLOCKING, MINIMUM 1 1/2" THICK, AT STUD WALLS AND PARTITIONS FOR ATTACHMENT OF CABINETS, COUNTERTOPS, AND SHELVING UNITS.
5. DEPTH OF UNIT DESIGNATION D=X" VERIFY SINK / LAVATORY SIZE REQUIREMENTS.
6. TYPICAL CABINET CONSTRUCTION SHALL BE MIN. 3/4" MELAMINE COATED PARTICLE BOARD EXCEPT AT EXPOSED EXTERIOR SURFACES. EXPOSED EXTERIOR SURFACES SHALL HAVE HIGH PRESSURE DECORATIVE LAMINATE IN LIEU OF MELAMINE COATING UNLESS NOTED OTHERWISE. BACK PANELS SHALL BE MINIMUM 1/2" MELAMINE COATED PARTICLE BOARD UNLESS NOTED OTHERWISE. WHERE ALL CABINETS / SHELVING (W/O A COUNTER ABOVE) MEET AT AN INSIDE CORNER OF A ROOM, A HORIZONTAL CLOSURE PANEL SHALL BE PROVIDED AT THE TOP TO CLOSE OFF VOID SPACE BELOW.
7. TYPICAL COUNTERTOP CONSTRUCTION SHALL BE MINIMUM 3/4" PARTICLE BOARD WITH HIGH PRESSURE DECORATIVE LAMINATE AT TOPS AND BACKSPLASHES WITH 1 1/2" FRONT SELF EDGE UNLESS NOTED OTHERWISE. PVC EDGE BANDING, 0.12", (3mm) THICK, MATCHING LAMINATE COLOR, PATTERN, AND FINISH, TO BE AT VERTICAL COUNTER TOP SURFACES. RADIUS OUTSIDE COUNTER CORNERS WITH 1" RADIUS.
8. FURNISH AND INSTALL 3mm PVC EDGE BANDING (64023.K1) AS REQUIRED AT ALL EXPOSED CABINET FACE FRAME, SHELF, DOOR, AND DRAWER EDGES.
9. SEE TYPICAL ACCESSORY MOUNTING HEIGHT DETAIL ON SHEET A1.2.

Reference Notes

6.02	SIDE / END / LEG PANELS. TYPICAL AT UPPERS AND BASE CABINETS.
6.03	TYPICAL CABINET COMPONENT IDENTICAL AT UPPERS AND BASE CABINETS.
6.05	NO BACKSPLASH.
10.02	PAPER TOWEL AND SOAP DISPENSER(S). O.F./C.I.
11.01	O.F.C.I. FLAT SCREEN TV.
22.01	SINK. SEE PLUMBING DOCUMENTS.

Keyed Notes

064116.A1	3/4" MELAMINE COATED PARTICLE BOARD
064116.A2	1/2" MELAMINE COATED PARTICLE BOARD
064116.C1	3/4" PARTICLE BOARD
064116.D1	H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
064116.D2	H.P. DECORATIVE LAMINATE - TOPS, EDGES, AND BACKSPLASH
064116.E1	ADJUSTABLE SHELVES ON 32MM SYSTEM SHELF SUPPORTS - 3/4" MELAMINE COATED PARTICLE BOARD
064116.F1	DRAWER(S) ON SLIDES W/ PULL(S)
064116.G1	DOOR(S) ON HINGES W/ PULL(S)
064116.N2	1/4" PLEXIGLASS SHELVES
101100.B1	VINYL FABRIC FACED CORK TACKBOARD

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Brock Thrust
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STATE OF IDAHO

#	Revisions Description	Date

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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CHECKED BY: BT

BID SET

DRAWING NO.:
A10.4
MILLWORK

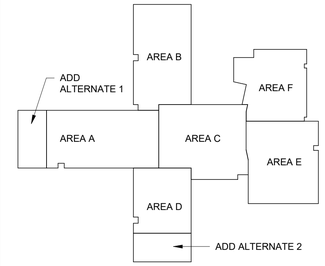
General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD: (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. IMPACT RESISTANT PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



1 REFLECTED CEILING PLAN - OVERALL
1" = 20'-0"

NORTH

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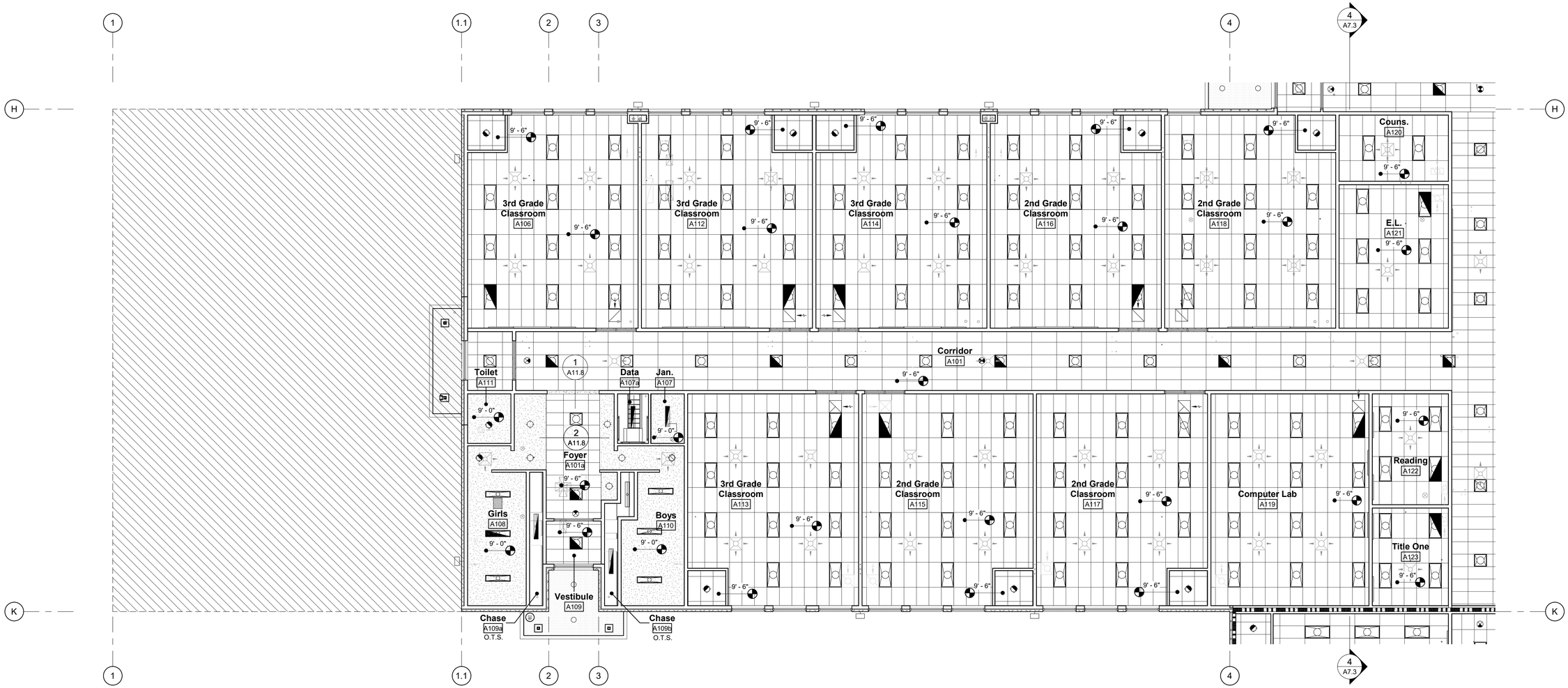
A11.1
REFLECTED CEILING PLAN – OVERALL



1 REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

General Notes

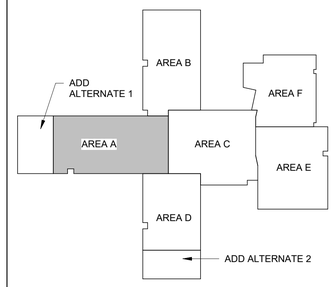
1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Keyed Notes

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD: (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. IMPACT RESISTANT PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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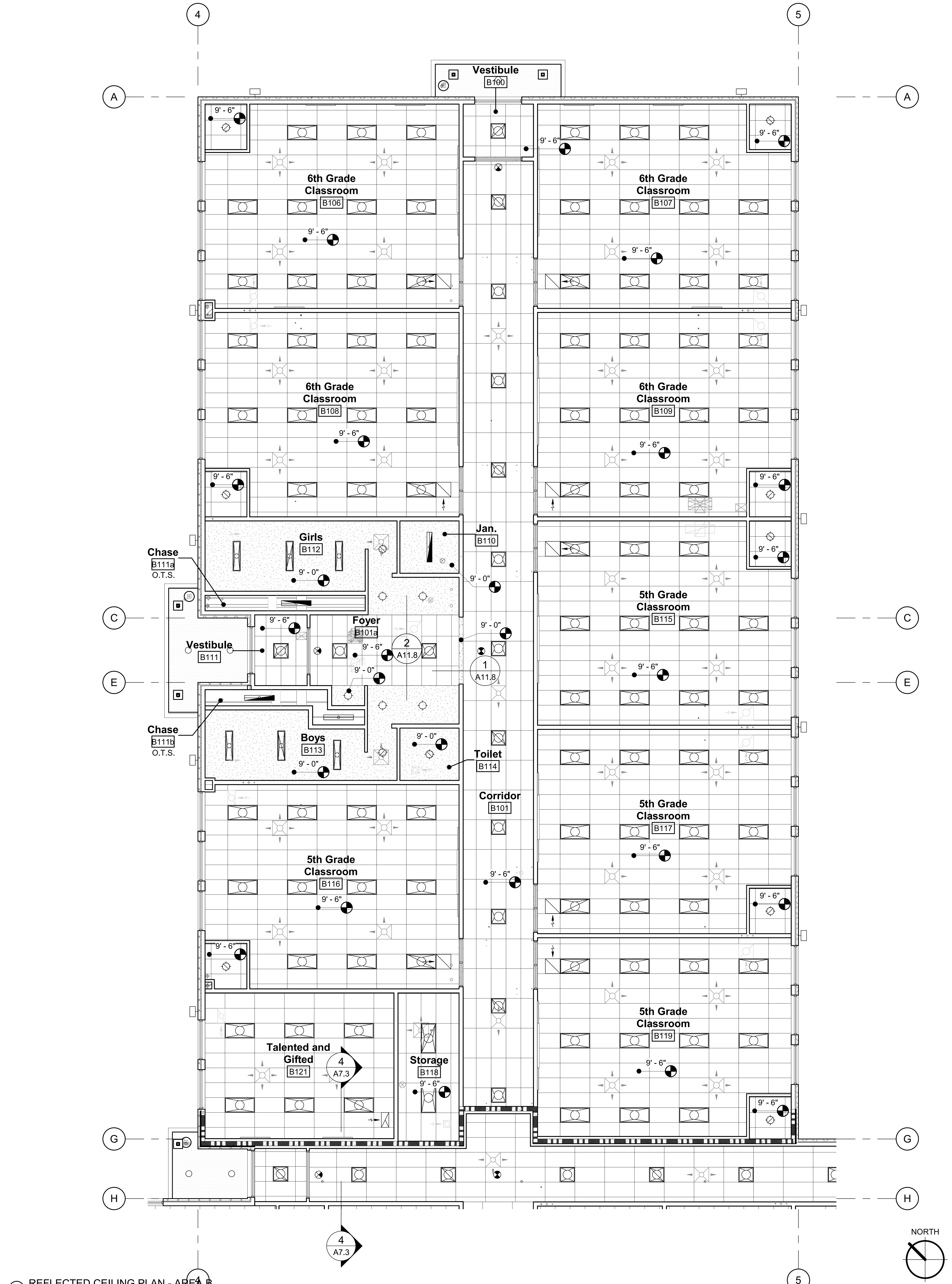
A11.2
REFLECTED CEILING PLAN - AREA A



1 REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Reference Notes

Keyed Notes

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
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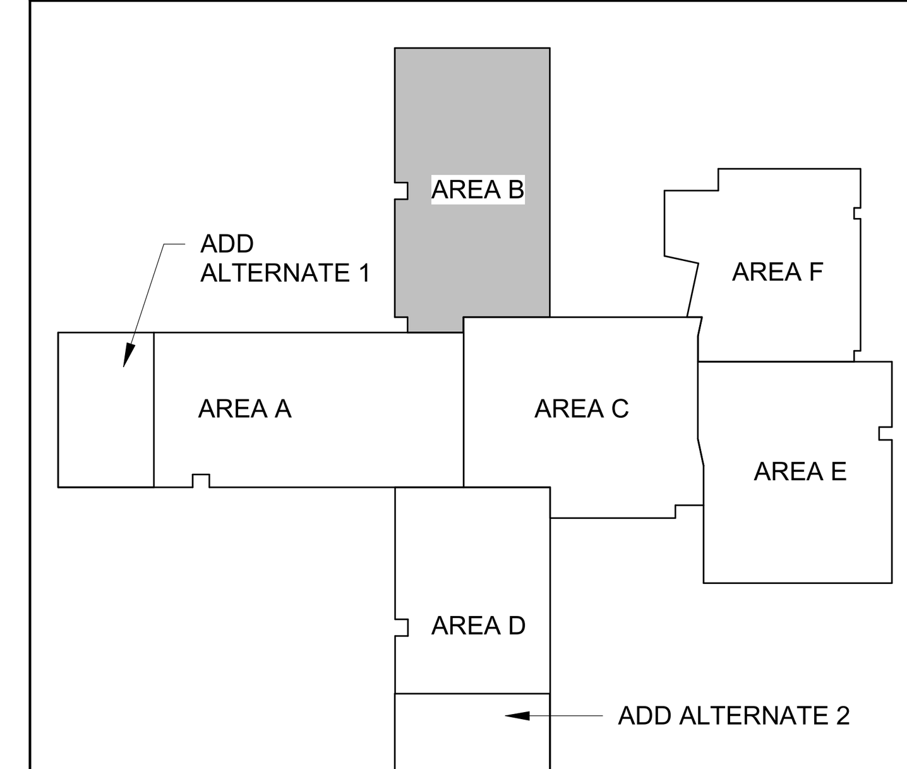
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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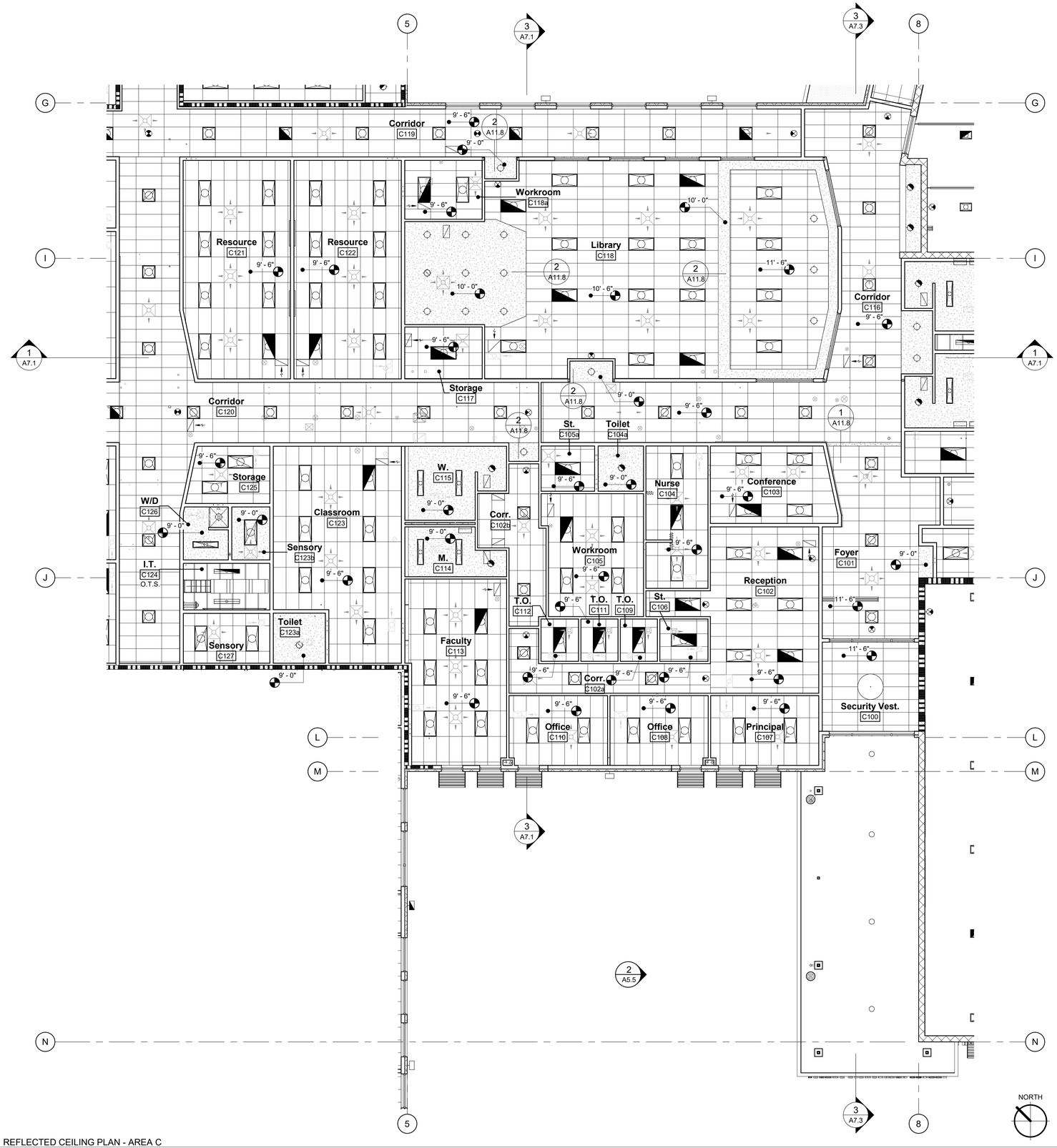
A11.3
REFLECTED CEILING PLAN - AREA B



1 REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Reference Notes

Keyed Notes

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD: (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
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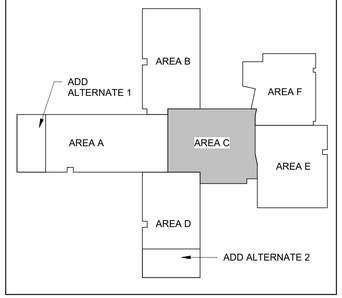
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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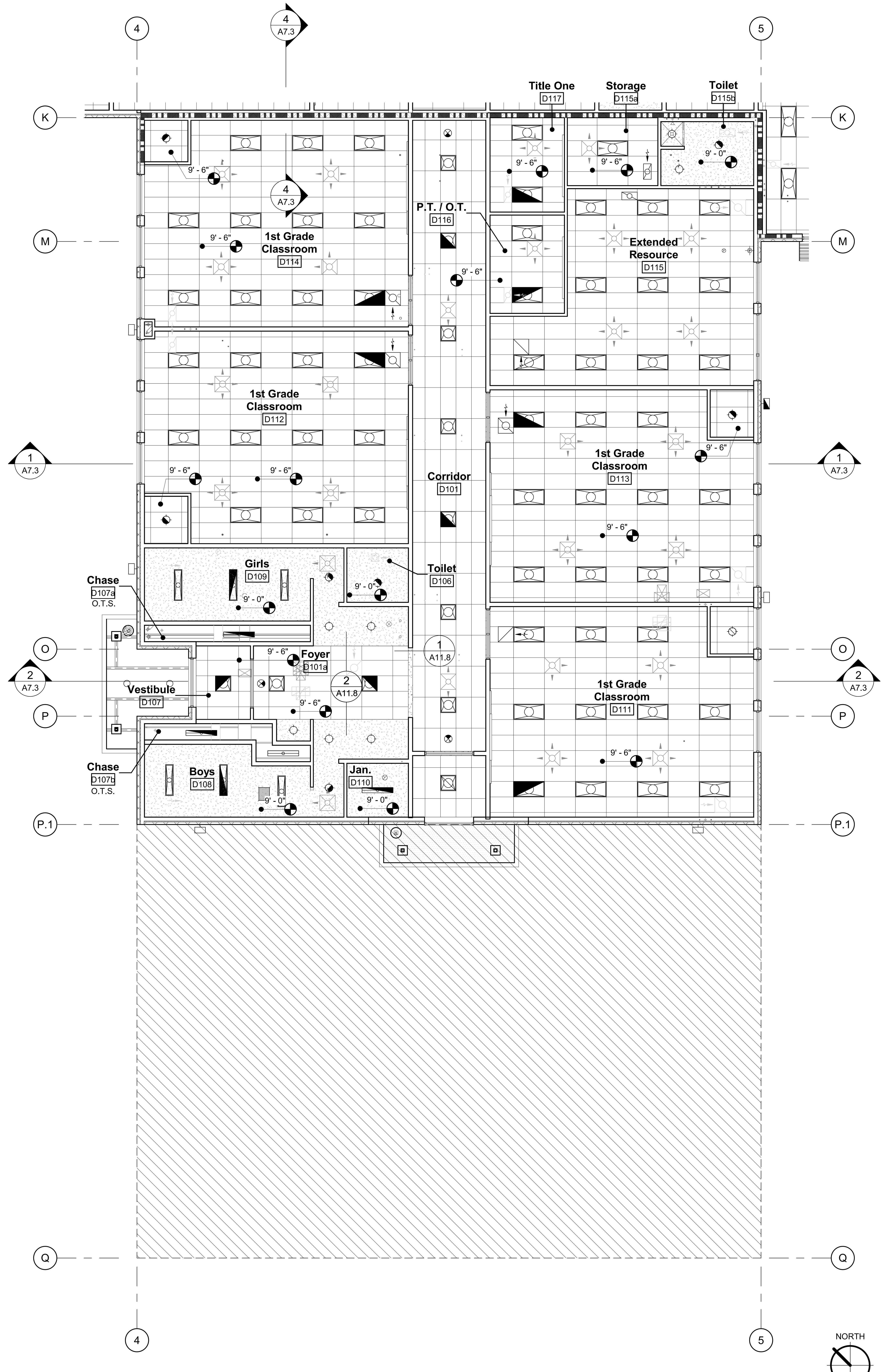
A11.4
REFLECTED CEILING PLAN – AREA C



1 REFLECTED CEILING PLAN - AREA D
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

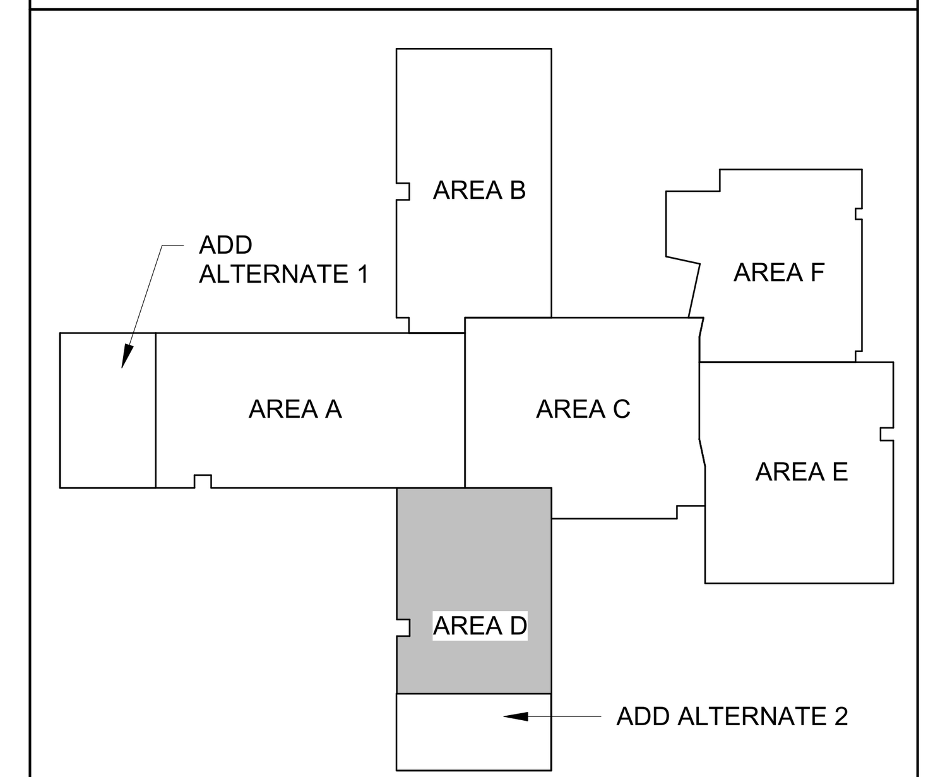
Reference Notes

Keyed Notes

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD: 092900.A1 SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. WASHABLE VINYL FACED PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. IMPACT RESISTANT PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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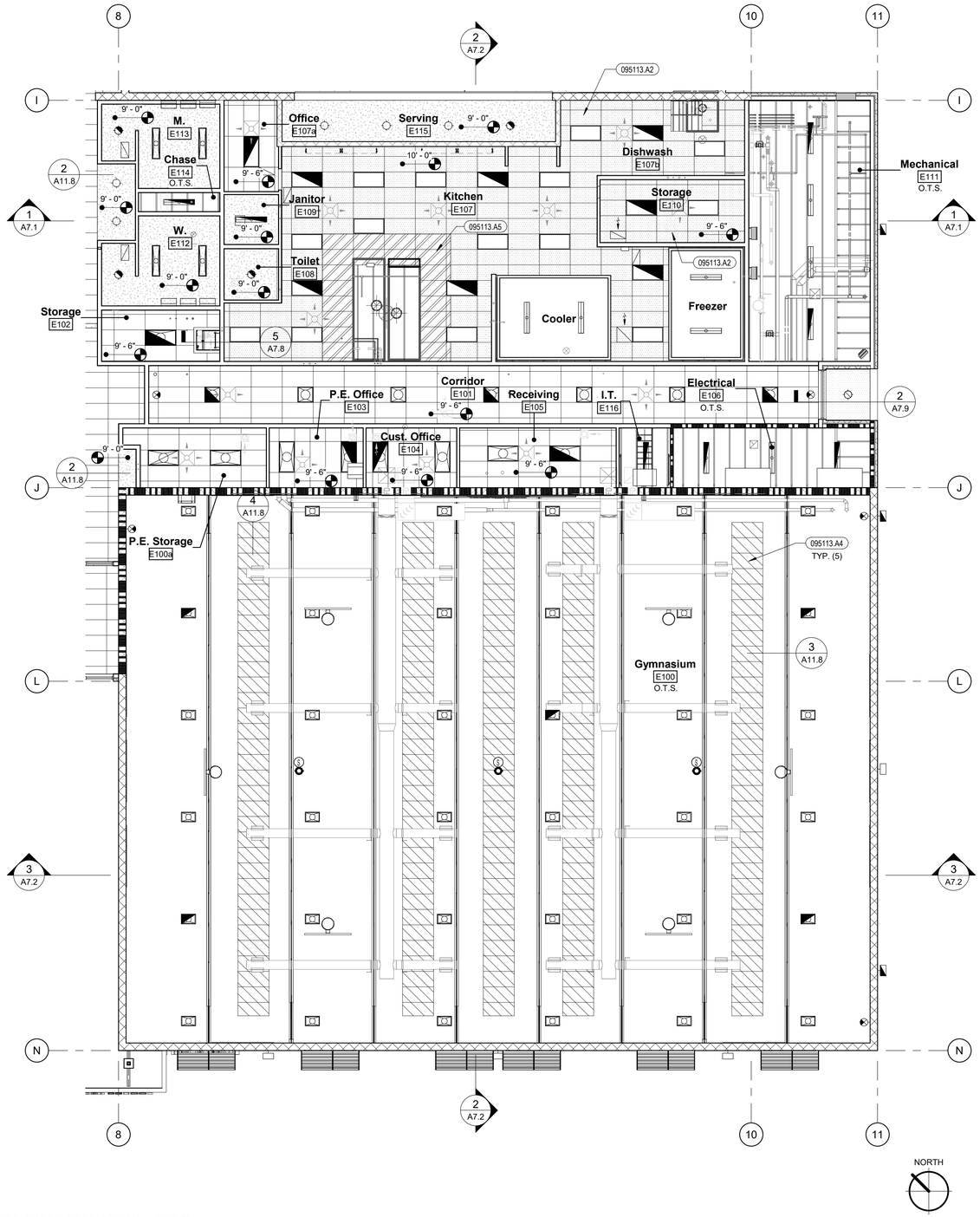
DRAWING NO.:
A11.5
REFLECTED CEILING PLAN - AREA D



1 REFLECTED CEILING PLAN - AREA E
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Reference Notes

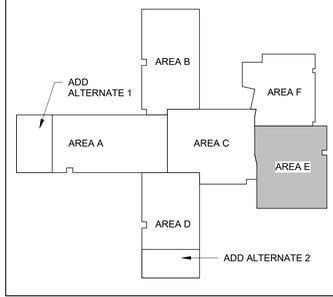
Keyed Notes

095113.A2	SUSPENDED ACOUSTICAL PANEL CEILING, WASHABLE VINYL FACED PANELS
095113.A4	SUSPENDED ACOUSTICAL PANEL CEILING, IMPACT RESISTANT PANELS
095113.A5	SUSPENDED PANEL CEILING, METAL PANELS.

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD: (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY, WASHABLE VINYL FACED PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY, IMPACT RESISTANT PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY. METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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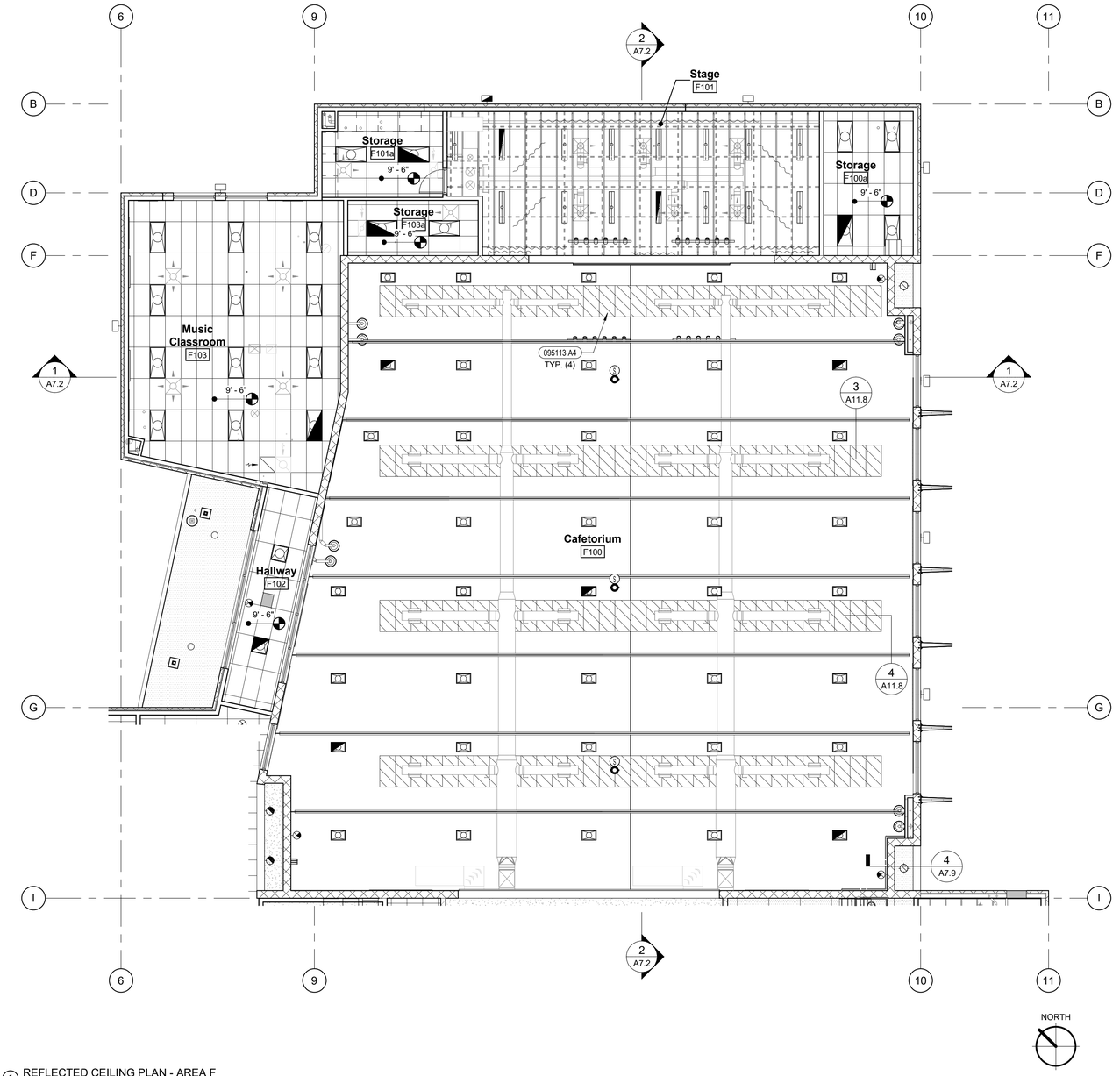
A11.6
REFLECTED CEILING PLAN – AREA E



1 REFLECTED CEILING PLAN - AREA F
1/8" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE SHEET A4.1 FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Reference Notes

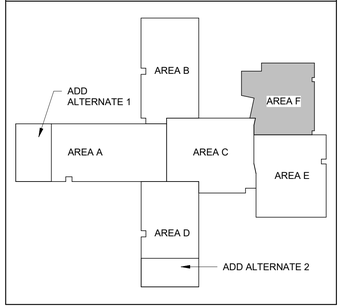
Keyed Notes

095113.A4	SUSPENDED ACOUSTICAL PANEL CEILING, IMPACT RESISTANT PANELS

Legend

- TYPICAL LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- TYPICAL MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
- CEILING HEIGHT ABOVE FINISHED FLOOR.
- GYPSUM CEILING BOARD: (092900.A1) SEE SPECIFICATION SECTION 092216 FOR FRAMING REQUIREMENTS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY, WASHABLE VINYL FACED PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY, IMPACT RESISTANT PANELS.
- SUSPENDED ACOUSTICAL PANEL CEILING, WITH SUSPENSION SYSTEM, INTERMEDIATE DUTY, METAL PANELS.
- EXTERIOR METAL SOFFIT SYSTEM. REFER TO WALL SECTIONS FOR FRAMING DETAILS.

Keyed Plan



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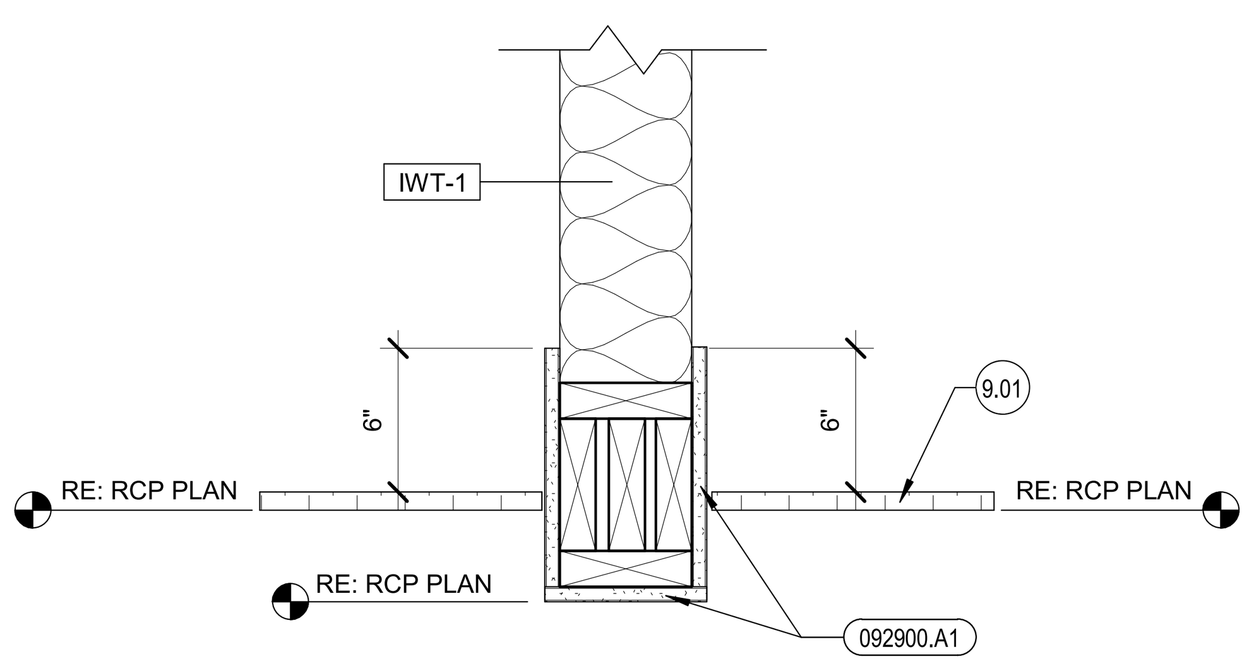
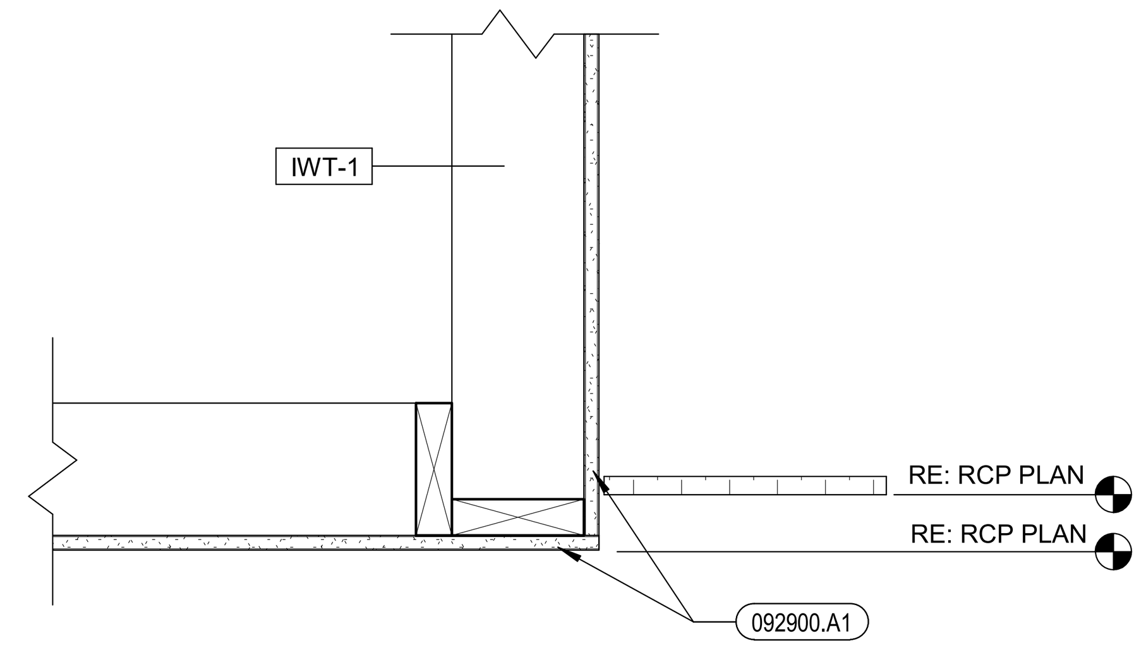
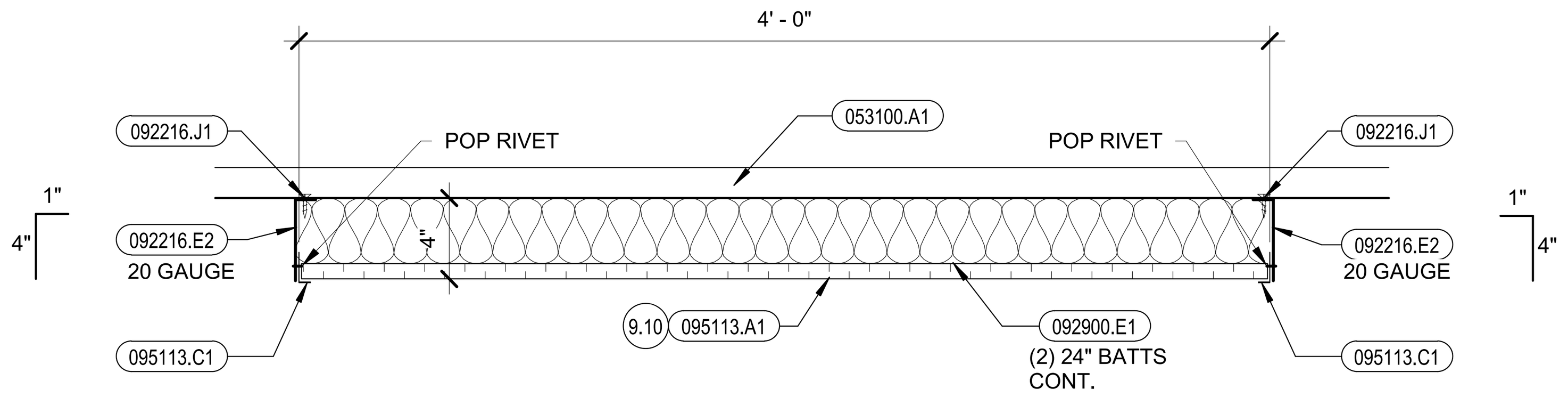
A11.7
REFLECTED CEILING PLAN – AREA F



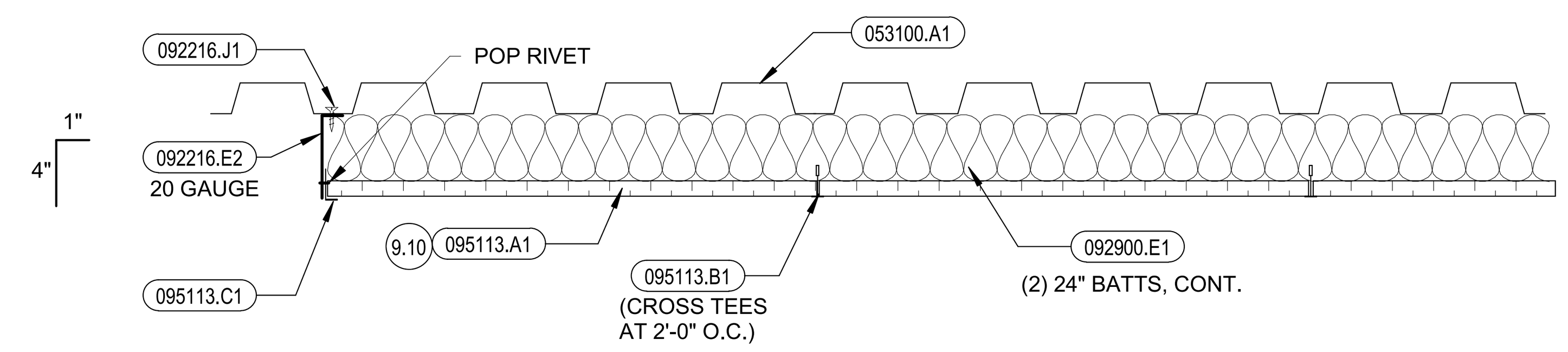
(1) CEILING TRANSITION
1 1/2" = 1'-0"



(2) CEILING TRANSITION
1 1/2" = 1'-0"



(3) ACOUSTICAL SOUND PANEL DETAIL
1 1/2" = 1'-0"



(4) ACOUSTICAL SOUND PANEL DETAIL
1 1/2" = 1'-0"

General Notes

1. SEE SPECIFICATIONS FOR SUSPENDED ACOUSTICAL PANEL INSTALLATION REQUIREMENTS.
2. SEE ROOM FINISH SCHEDULE A4.1 FOR CEILING REQUIREMENTS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

Reference Notes

9.01	SEE REFLECTED CEILING PLAN.
9.10	IMPACT RESISTANT PANELS AT GYMNASIUM. STANDARD PANELS AT CAFETERIA.

Keyed Notes

053100.A1	STEEL ROOF DECK, 1 1/2", 20 GUAGE, TYPE B UNO.
092216.E2	CONTINUOUS SHEET METAL ANGLE
092216.J1	SCREW(S)
092900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
092900.E1	SOUND ATTENUATION BATT(S) 3 1/2"
095113.A1	SUSPENDED ACOUSTICAL PANEL CEILING, STANDARD PANELS
095113.B1	SUSPENSION SYSTEM, INTERMEDIATE DUTY
095113.C1	WALL ANGLE TRIM

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DRAWING NO.:
A11.8
REFLECTED CEILING PLAN - DETAILS

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.

2. Typical details and sections shall apply where specific details are not shown.

3. The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts, and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.

4. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.

5. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.

6. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.

7. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.

8. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.

9. The contractor shall not cut or core any holes in masonry or concrete walls without prior review by the architect/engineer.

10. Site observations by BHB Consulting Engineers' field representative shall not be construed as approval of construction procedures nor special inspection.

11. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical, and electrical drawings.

12. Contractor shall review shop drawings for compliance with contract documents, and stamp shop drawings with review stamp prior to submission to architect for review. Review of shop drawings by BHB Consulting Engineers is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents. Fabrication shall not begin until shop drawings review process is complete. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.

13. Only an authorized representative of BHB Consulting Engineers may make changes to these contract drawings. BHB Consulting Engineers shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers.

14. Bidding, pricing or construction done prior to receiving final building permits from the authorities having jurisdiction is at the contractor's own risk. Changes to the drawings may be required as part of the plan check process. BHB Consulting Engineers will not be held liable for, nor compensate for, changes to these drawings before final jurisdiction approval is obtained.

BASIS OF DESIGN

1. Governing Code — International Building Code 2018
   a. Risk Category — III

2. Snow Loads
   a. Ground Snow Load — P_g = 12 psf
   b. Snow Importance Factor — I_s = 1.1
   c. Snow Exposure Coefficient — C_e = 1.0
   d. Thermal Exposure Coefficient — C_t = 1.0
   e. Roof Snow Load — $P_f = I_s * P_g$ = 13.2 psf plus Snow Drift
      Minimum Uniform Roof Snow Load = 30 psf

3. Rain Loads
   a. Rain Intensity — i = 1.0 in/hr

4. Roof Live Load — 20 psf

5. Seismic Loads
   a. Seismic Importance Factor, I_e — 1.0
   b. Seismic Design Category — D
   c. Site Specific Ground Motion Hazard Analysis — Not Required per exceptions in section 11.4.8 of ASCE 7
   d. Mapped Spectral Acceleration — S_s = 0.173g
      S_1 = 0.080g
   e. Soil Site Class — C
   f. Soil Site Coefficients — F_a = 1.30
      F_v = 1.50
   g. 5% Damped Design Spectral Response Acceleration
      $S_{DS} = 2/3 * F_a * S_S$ = 0.150g
      $S_{D1} = 2/3 * F_v * S_1$ = 0.080g
   h. Seismic-Force-Resisting System — Light Framed Wood Sheathed Shear Walls
   i. Response Modification Coefficient — R = 5.0
   j. System Over-strength Factor — Ω_0 = 2.5
   k. Deflection Amplification Factor — C_d = 3.5
   l. Redundancy Factors — ρ_x = 1.0; ρ_y = 1.0
   m. Fundamental Building Period — T = 0.269 seconds
   n. Seismic Response Coefficient — $Cs = S_{DS} * I_e / R$
      $Cs = S_{D1} * I_e / (R*T)$
   o. W — Dead Loads of Structure
   p. Base Shear — $Vx = C_s * W$ = 0.037 * W
      $Vy = C_s * W$ = 0.037 * W
   q. Analysis Procedure — Equivalent Lateral Force (Static)

6. Wind Loads
   a. Basic Wind Velocity (3 Second Gust) — 109 mph
   b. Exposure Type — C
   c. Internal Pressure Coefficient, GCpi — +/-0.18
   d. Topographic Factor, Kzt — 1.0
   e. Ground Elevation Factor, Ke — 1.0
   f. Components and Cladding Wind Force Table (psf, Strength Design)

	Effective Wind Area for Component (sq ft.)				
Wall Zone	10 sq ft.	20 sq ft.	50 sq ft.	100 sq ft.	500 sq ft.
4	22.4	21.5	20.2	19.3	17.2
5	27.5	25.7	23.3	21.5	17.2

FOUNDATION

1. Soils Report
   a. Author: — EHM Engineers, Inc.
   b. Dated: — July 21, 2021
   c. Project No: — 326-21

2. Soil Bearing Pressure — 1500 psf, see Earthwork Section.

3. Frost Protection — 24" minimum to bottom of footing. Contractor shall field verify that the footing elevations and final grades indicated on the plans will provide the minimum frost protection. The contractor shall notify the architect/engineer if there are any locations where the minimum frost protection might not be achieved prior to placing concrete.

4. Lateral Soil Pressure Fluid Equivalent Density:
   a. Active — 30 pcf (retaining walls)
   b. At Rest — 50 pcf (rigid foundation walls)
   c. Passive — 350 pcf

5. Coefficient of Friction — 0.4

EARTHWORK

1. All footings shall bear on suitable natural material or compacted structural fill extending down to suitable natural material.

2. All footings shall bear on 1'-0" of compacted structural fill extending down to suitable natural material. See detail 9/S5.02.

3. Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
      i. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1.1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur:
         1. The percent retained on two adjacent sieves shall not fall below 5%.
         2. The percent retained on three adjacent sieves shall not fall below 8%.
         3. When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.
      ii. A gradation chart or table shall be submitted with mix designs for slabs on grade.
      iii. Maximum Aggregate Size shall not be larger than:
         1. 3.1/2" or 1/5 the narrowest dimension of the forms
         2. 1/3 the depth of the slab
         3. 3/4 the minimum clear spacing between bars
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi)
      Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Headed Stud Anchors (HSA) — ASTM A108
   e. Anchor Rods — See Structural Steel section
   f. Admixtures:
      i. Air-entraining admixtures shall comply with ASTM C 260 (when used).
      ii. Calcium chloride shall not be added to the concrete mix.
      iii. Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used)
      iv. Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
      v. Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when used).
      vi. High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
      vii. High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G (when used).
      viii. Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer.
   g. Type I/II cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain the same for the entire job.
   h. The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-14.
   i. Cementitious Materials – Limit percentage, by weight, of cementitious materials other than portland cement as follows:
      i. Fly Ash - ASTM C618, Class C or F – 35% maximum cementitious content.
      ii. Slag Cement – ASTM C989, Grade 100 or 120 – 50% maximum cementitious content.
   j. Provide Lithium Nitrate admixture (ASTM C1260 0.55 gallons per pound of alkali equivalent) to concrete exposed to freeze-thaw (F1 and F3). This includes all exterior concrete, exterior footings and foundations, exterior piers and columns.
   k. Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-14. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained. Concrete in unconditioned spaces shall be considered site concrete.
   l. Concrete shall have, at the point of delivery, a slump of 4". Determine the slump by ASTM C143. Slump tolerance shall meet the requirements of ACI 117. When using high-range, water-reducing admixture or plasticizing admixture conforming to ASTM C494, it is permitted to increase the slump of concrete 8" maximum with a verified slump of 2" to 4". before the admixture is added.
   m. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

2. Compressive strengths of concrete at 28 days shall meet the follow performance requirements (see ACI-318-14; Chapter 19):
   a. Interior Footings & Interior Foundation Walls
      Strength — 3,000 psi
      Classification — F0, S0, W0, C0
   b. Exterior Footings & Exterior Foundation Walls
      Strength — 3,500 psi
      Classification — F1, S0, W0, C0
   c. Interior Slabs on Grade
      Strength — 3,000 psi
      Classification — F0, S0, W0, C0
   d. All Site Concrete with Reinforcement
      Strength — 5,000 psi
      Classification — F3, S0, W1, C2
   e. All Site Concrete without Reinforcement
      Strength — 4,500 psi
      Classification — F3, S0, W1, C2

3. Reinforcement for concrete slabs on grade:
   a. 4" thick concrete slab on grade. Reinforce slab with #3 bars at 24" o.c. each way with 1.1/2" max cover below the top surface of the concrete.
      i. At contractor's option, macro-synthetic fiber or welded wire fabric may be used in lieu of reinforcing bars with the following requirements:
         1. 3 lbs minimum per cubic yard of macro-synthetic fiber reinforcing (ASTM C 1116 Type 3) with the following requirements:
            a. Length 1.1/2" – 2"
            b. Equivalent diameter of 0.016" to 0.05"
            c. Minimum aspect ratio (length to equivalent diameter) of 50 to 90.
            d. Provide a fiber dosage to achieve a minimum post-crack residual strength (f_{e3}) of 200 psi when tested according to ASTM C1609.
            e. Maximum concrete shrinkage shall be 0.04% when tested according to ASTM C157 or C157 modified.
            f. Fiber manufacturer shall provide the following:
               i. Fiber dosage
               ii. Mix design
               iii. Finishing practices
         2. 6" x 6" – W2.5/W2.5 welded wire fabric (ASTM A185 and A497) minimum, unless noted otherwise. Welded Wire Fabric with 1.1/2" of cover below the top surface of the concrete.

4. Only one grade or type of concrete shall be poured on the site at any given time.

5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.

6. Reinforcement shall have the following concrete cover:

a. Cast-in-place Concrete	Clear Cover
i. Cast against and permanently exposed to earth	3"
ii. Formed concrete exposed to earth or weather:	
#6 thru #18 bars	2"
#5 and smaller bars	1.1/2"
iii. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls, Joists; #11 bars and smaller	3/4"
Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals	1.1/2"

7. Detailing:
   a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" on sheet S6.01. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements and shall have a current ICC-ES report or IAPMO Certification. Use "Lenton" Standard Couplers (ICC ER-3967), "Bar-Lock" (ICC ESR-2495) or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   b. At joints, provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48".
   d. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length. See detail 4/S5.01.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90-degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook. Horizontal wall reinforcing shall be continuous through construction and control joints.
   g. See detail 8/S5.01 for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

8. Construction Joints, Control (Contraction) Joints:
   a. Construction joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4". The laitance on the concrete (thin, flaky layer of hardened, weakened hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set. Construction joints in slabs on grade shall not exceed a distance of 125'-0" o.c. in any direction.
   b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the cutter on the slab. Final set is typically achieved within the first 4 to 12 hours after the slab has been finished in an area (depending on weather conditions and concrete hydration rate; 4 hours in hot weather to 12 hours in cold weather). For early entry saw cutting, joints should be cut within the first 1 to 4 hours (depending on weather conditions and concrete hydration rate; 1 hour for hot weather and 4 hours for cold weather). Where saw cut joints cannot be cut along the entire projected length of the joint, a 90-degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by:
      i. Saw cut a depth of 1/4 the thickness of the slab (1.1/4" ± for early entry saws) minimum.
      ii. Tooled joints a depth of 1/4 the thickness of the slab
      iii. Saw cut depth shall be increased to 1/3 of the slab thickness (1.3/4" ± for early entry saws) where macro fibers are used.
   c. For interior concrete slabs-on-grade that are to receive **no** floor covering, install construction or control joints in slabs on grade at a spacing not to exceed 24 times the slab thickness in any direction, unless noted otherwise. For interior concrete slabs-on-grade that are to receive floor coverings the contractor has the option to increase the control joint spacing to 36 times the slab thickness in any direction.

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02/24/2022

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Revisions: # | Description | Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:
S0.01
GENERAL STRUCTURAL NOTES

GENERAL STRUCTURAL NOTES

9. Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.

POST-INSTALLED ANCHORS

1. General Post-Installed Anchor Notes
   a. Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors until concrete has reached 28-day compression strength.
   b. Anchors or adhesives specified in details shall be provided; alternative anchors or adhesives may be used if the contractor provides calculations demonstrating that the alternative can achieve the performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be submitted to the structural engineer prior to use.
   c. Follow all the manufacturer's recommendations and certification testing reports for anchor installation. See specific anchors below for more information.
   d. No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.

2. Adhesive Anchors
   a. For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" on sheet S6.01. High Strength adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group. See below for the acceptable adhesives in each group.
      i. Standard Adhesive Group for anchors in concrete includes the following adhesives:
         1. SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
         2. Pure 50+ (ICC-ES ESR-3576) by Dewalt
         3. AC100+ Gold (ICC-ES ESR-2582) by Dewalt
         4. HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
      ii. High Strength Adhesive Group for anchors in concrete includes the following adhesives:
         1. SET-3G (ICC-ES ESR-4057) by Simpson Strong-Tie
         2. Pure 110+ (ICC-ES ESR-3298) by Dewalt
         3. AC200+ (ICC-ES ESR-4027) by Dewalt
         4. HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc.
         5. HIT-HY 200 (ICC-ES ESR-3187) by Hilti Inc.
   b. For anchors in grouted masonry, the adhesive shall be HIT-HY-200-A (ICC-ES ESR-3963) by Hilti Inc., HIT-HY-200-R (ICC-ES ESR-3963) by Hilti Inc., SET-XP (IAPMO UES ER-265) by Simpson Strong-Tie Inc. or AT-XP (IAPMO UES ER-281) by Simpson Strong-Tie Inc., AC100+ (ICC-ES ESR-3200) by Dewalt or CIA GEL (ICC-ES ESR-1702) by USP.
   c. For anchors in ungrouted masonry, the adhesive shall be HIT-HY 270 (ICC-ES ESR-4143) by Hilti Inc., or SET (ICC-ES ESR-1772) by Simpson Strong-Tie Inc. or AC100+ (ICC-ES ESR-3200) by Dewalt. Plastic mesh or stainless steel screen tubes shall be used.
   d. Adhesive shall be within the manufacturer's recommended life time and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
   e. Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless adhesive is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
   f. Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.

3. Mechanical Anchors
   a. For concrete, the mechanical anchor shall be Kwik Bolt TZ (ICC-ES ESR-1917) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Dewalt.
   b. For grouted masonry, the mechanical anchor shall be Kwik Bolt 3 (ICC-ES ESR-1385) by Hilti Inc., Wedge-All (ICC-ES ESR-1396) by Simpson Strong-Tie or Strong-Bolt 2 (IAPMO-UES ER-240) by Simpson Strong-Tie or Power-Stud+ SD1 (ICC-ES ESR-2966) by Dewalt.

4. Screw Anchors
   a. For concrete and grouted masonry, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only and ICC-ES ESR-1056 for grouted masonry) by Simpson Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt, Screw-Bolt+ (ICC-ES ESR-4042 for grouted masonry) by Dewalt, or Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only and ICC-ES ESR-3056 for grouted masonry) by Hilti Inc.

5. Powder Actuated Fasteners
   a. For fasteners driven into steel (except at metal decks), concrete. or concrete over metal deck, the fastener shall be X-U P8 TH Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Dewalt.

MASONRY

1. Materials, unless noted otherwise:
   a. Concrete Masonry Units (CMU) ASTM C90: Light weight (minimum net area unit strength of 2,000 psi). f'_m = 2,000 psi.
   b. Mortar Cement ASTM C270: Use Type "S"
   c. Masonry Grout ASTM C476: grout shall attain a minimum compressive strength of 2,500 psi at 28 days.
   d. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi)
   e. Deformed Bar Anchors (DBA) — ASTM A496
   f. Headed Stud Anchors (HSA) — ASTM A108
   g. Anchor Rods — ASTM F1554, Grade 36 with ASTM A563 heavy hex nuts and ASTM F436 hardened washers

2. Reinforcement shall have the following cover:
   a. Typical reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1.1/2".
   b. Joint reinforcement shall have not less than 5/8" mortar coverage from the exposed face.

3. Detailing Requirement
   a. Lap all masonry reinforcing per "Masonry Reinforcing Lap Schedule" on sheet S6.02.
   b. All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure below with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing above.
   c. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length. See detail 4/S5.01.
   d. Wall Openings: For unscheduled openings wider than 24", provide reinforcing on all sides per detail 2/S5.02. Also, for all scheduled openings, provide horizontal bar at bottom of opening per detail 1/S6.02. Vertical bars shall extend from floor level below to the floor, or roof level above. Horizontal bars for all openings shall extend a minimum of 48 bar diameters beyond the corners of the opening. Where a 48-bar diameter extension is not possible, extend bars as far beyond the opening as possible and terminate the bar(s) with a 90-degree standard ACI hook.
   e. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster. Horizontal wall reinforcing shall be placed inside the column vertical reinforcing.
   f. Horizontal wall reinforcing shall terminate with a hook at edge of openings and at each side of control joints except at floor and roof levels, lintels, beams and at top of parapets. See details 5/S5.02.
   g. All masonry column ties shall terminate with 135-degree hooks plus a 6-bar diameter extension (4" minimum).

4. Construction Requirements:
   a. Masonry coursing shall be coordinated with the architectural drawings.
   b. All units shall be laid with full mortar beds on the face shells. All head joints shall be filled solidly with mortar for a distance in from the face of the units not less than the thickness of the longitudinal face shells. Cells which are to be grouted shall have full head joints.
   c. Masonry walls, beams and columns shall be constructed with running bond, unless noted otherwise.
   d. All cells containing reinforcement, embeds, anchor bolts, etc. shall be filled solid with grout. Grout shall be placed by mechanical vibration during placing and re-vibrated after excess moisture has been absorbed but before workability is lost. Rodding of grout is not allowed.
   e. Where walls are not grouted solid, each grout pour shall terminate flush with the top of the uppermost unit except at cells with vertical reinforcing where the grout shall be 1.1/2" below top of unit to provide construction key.
   f. Grout pours shall be limited to 5'-4" unless written approval is obtained from the engineer of record.
   g. All walls below grade shall be grouted solid.
   h. Vertical cells to be filled with grout shall have vertical alignment sufficient to maintain a clear, unobstructed vertical cell measuring not less than 2" by 3". All steel reinforcement shall be secured against displacement prior to grouting by wire positioners or other suitable devices at intervals not exceeding 200 bar diameters or 10 ft maximum, or at bar splice locations. Vertical reinforcing shall be located at the center of the wall unless noted otherwise
   i. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
   j. Control Joints: Spacing shall not exceed 30'-0". Control joints shall be not be placed any closer than 4'-0" to edge of openings. Control joints shall not be placed in the middle of masonry piers. See architectural drawings for locations.
   k. Grout all beam and joist pockets solid after installation of beams and joists.
   l. Embed channels and plates shall be placed so as to create a flush surface with the face of the wall.
   m. Anchor bolts and headed stud anchors shall be set in a grouted cell. Anchor bolts and headed stud anchors shall have 1" grout surrounding the shank at its penetration. Grout shall be flush with the face or top of the masonry.
   n. Pipes, conduits, and ducts shall not be placed in grouted cells without written approval from engineer.
   o. No aluminum conduit or product containing aluminum or any other material injurious to the masonry or grout shall be embedded in the masonry.
   p. Contractor shall coordinate placement of all openings, dowels, sleeves conduits, bolts, inserts and other embedded items prior to placing grout.

MASONRY VENEER

1. Masonry veneer shall be attached to wood stud walls with *Dur-O-Wal* D/A 213 seismic veneer anchors or *Hohmann & Barnard* DW-10 or DW-10HS seismic veneer anchors (or equal) spaced at 16" o.c. Veneer anchors shall be attached to studs with #10 corrosion resistant self-drilling screws. Attach the veneer to the anchors with *Dur-O-Wal* Seismic Steel Pintles or *Hohmann & Barnard* 3/16" Ø Byna-Tie with Seismiclips (or equal) spaced at a maximum of 16" o.c. in both directions. Anchor ties shall engage to a galvanized No. 9 gauge horizontal joint reinforcement wire in the veneer, which shall be continuous and shall be placed at 16" o.c. maximum at the center of the veneer. At walls with rigid insulation use Hohmann & Barnard X-SEAL S.I.S. veneer anchors.

2. Other methods of attachment may be used after written acceptance by the architect and structural engineer.

3. Steel Lintels: Provide steel angle lintels at all openings through the masonry veneer. Provide 1" of bearing for each foot of width of opening with a minimum bearing of 6". See the "Veneer Lintel Schedule" on sheet S6.03 for size. Steel lintel angles shall be galvanized at all exterior conditions where exposed to weather.

OPEN WEB STEEL JOISTS

1. All open web steel joist shall be fabricated and erected in accordance with the latest edition of Steel Joist Institute (SJI), "Standard Specifications and Code of Standard Practice".

2. At the completion of fabrication, the steel joist manufacturer shall submit to the building official a certificate of compliance in accordance with IBC Section 1704.2.5 stating if the work was performed in accordance with approved construction documents and with SJI standard specifications.

3. Joists with slopes greater than 1/2" per foot shall be designed to meet or exceed the load capacities, listed in the SJI load tables, of the joist sizes indicated on the framing plan, as if the joists or girders were installed level.

4. Provide special bearing ends to accommodate slopes from sloped joists, or sloped bearing conditions.

5. Modifications to any joist, including holes through the top and bottom chords, without the written consent and direction from the manufacturer are not allowed.

6. Joist loads called out in the drawings are allowable stress design (ASD) loads.

7. Open web joist deflection shall be limited to L/240 for total loads and L/360 for roof live loads (or snow loads), unless noted otherwise on plans. The SJI required camber can be subtracted when considering the total load deflection requirements.

8. Camber joist per typical SJI requirements, unless noted otherwise on plans.

9. Joist bridging shown on plans is for schematic purposes only; actual size, quantity and location of bridging shall be determined by the joist supplier per SJI. Coordinate bridging locations to avoid interference with mechanical, electrical and fire protection equipment and skylights.

METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.

2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gage deck as required to provide the equivalent loading of the deck under a three span condition.

3. Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted. Light weight suspended acoustical ceilings with a total weight of 50 lbs per attachment may be hung from roof deck. The hangers shall be staggered to distribute the loads over multiple deck flutes.

4. All deck supporting members shall be dry before welding.

5. Clinch seams before welding interlocking seams.

6. Yield stress of the 20 gage steel deck shall be limited to a maximum of 50 ksi.

Steel Floor Deck

   a. Steel floor deck shall be galvanized 9/16" deep X 20 gage shallow Vercor deck with interlocking side seams with the following properties:

	22 Gage	20 Gage
Minimum S ($in^3/_{ft}$) =	0.073	0.087
Minimum I ($in^4/_{ft}$) =	0.022	0.027

   b. Steel deck with 3 7/16" thick (4" overall) normal weight concrete slab. Reinforce with #3 bar at 18" O.C. E.W.
   c. Fasten deck to supporting framing members with #10 screws at 6" O.C.
   d. Fasteners shall be placed at the following spacings:
      i. 12" o.c. to supports perpendicular to deck corrugations (4 fasteners per 36" wide sheet).
      ii. 12" o.c. to all supports parallel to deck corrugations.
   e. Attach interlocking seams with one of the following.
      i. #10 screws at 24" O.C.
   f. Provide a 2" minimum bearing at supports.

Steel Roof Deck

   a. Steel roof deck shall be 3" deep X 20 gage minimum painted, type "N" wide rib deck with interlocking side seams with the following properties:

	22 Gage	20 Gage	18 Gage	16 Gage
Minimum S ($in^3/_{ft}$) =	0.405	0.509	0.722	0.932
Minimum I ($in^4/_{ft}$) =	0.785	0.953	1.273	1.587

   b. Steel roof deck at the canopies shall be 1.1/2" deep X 20 gage minimum painted, type "B" wide rib deck with interlocking side seams with the following properties:

	22 Gage	20 Gage	18 Gage	16 Gage
Minimum S ($in^3/_{ft}$) =	0.188	0.237	0.331	0.410
Minimum I ($in^4/_{ft}$) =	0.192	0.231	0.306	0.381

   c. Minimum allowable deck diaphragm shear values shall be 622 lbs/ft for a 10'-8" deck span.
   d. Fasten deck to supporting framing members with powder-driven fasteners. Powder-driven fasteners shall be as indicated below based on the steel framing thicknesses:

Steel Framing Thickness	Fastener	ICC-ESR or IAPMO report number
0.125" to 0.375"	Hilti X-HSN-24	ICC-ESR 2776
0.25" and up	Hilti X-ENP-19 L15	ICC-ESR 2776
0.113" to 0.155"	Pneutek SDK61075	ICC-ESR 2941
0.155" to 0.250"	Pneutek SDK63075	ICC-ESR 2941
0.188" to 0.312"	Pneutek K64062	ICC-ESR 2941
0.281" and up	Pneutek K66062	ICC-ESR 2941

   e. Fasteners shall be placed at the following spacings (Closer spacings may be used to develop minimum shear requirements):
      i. 6" o.c. to all supports perpendicular to deck corrugations (7 fasteners per 36" sheet).
      ii. 6" o.c. to all supports parallel to deck corrugations.
   f. In lieu or mechanical fasteners, contractor may weld deck to supporting framing members with 3/4" diameter puddle welds at the same spacing for deck pins as indicated above.
   g. Attach interlocking seams with one of the following:
      i. 1.1/2" long top seam welds at 24" o.c. maximum
      ii. Verco PunchLok II System at 24" o.c. maximum
      iii. ASC Delta Grip System at 36" o.c maximum
      iv. CSI Inter-Knek System at 36" o.c maximum
      Closer spacing may be used to develop minimum shear requirements. A standard button punch can **not** be used in place of Verco PunchLok, DeltaGrip or CSI Inter-Knek
   h. Provide a 2" minimum bearing and a 4" lap at the splice points.

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02/24/2022

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#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

S0.02
GENERAL STRUCTURAL NOTES

GENERAL STRUCTURAL NOTES

COLD-FORMED STEEL

1. All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI).

2. All cold-formed steel connectors shall be provided by The Steel Network. If the contractor elects to substitute for another manufacturer, the contractor shall submit a revised connector list, prior to construction, that includes the following information:
   a. Specified connector indicated on these plans
   b. Requested substitution connector
   c. Allowable capacity of the requested substitution connector

3. Light Gauge Steel Framing:
   a. Galvanized steel shall meet the minimum requirements of ASTM A653 (Fy = 50 ksi) for 97 mil (12 gauge), 68 mil (14 gauge) and 54 mil (16 gauge). For 43 mil (18 gauge) and lighter galvanized steel shall meet and ASTM A653 (Fy = 33 ksi). Galvanized coatings must meet the ASTM A924.
   b. Follow all manufacturers' recommendations for the use of these products.
   c. Unless noted otherwise, all welded connections shall be done according to AWS standards.
   d. All interior non-bearing steel-stud walls that extend above the ceiling but do not attach to the structure above shall be brace with diagonal metal-stud braces (45 degrees). The kl/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" o.c. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used.

WOOD

1. Materials:
   a. Dimensional Lumber
      i. All dimensional lumber shall be #2 Douglas Fir-Larch or better unless noted otherwise.
   b. Engineered Lumber
      i. Engineered lumber shall be provided by manufacturer of the products specified on these structural drawings. If an alternative manufacturer is proposed, the contractor shall submit a revised engineered lumber list, prior to construction, that includes the following information:
         1. Specified lumber product as indicated on these structural drawings
         2. Proposed substitution lumber product
         3. Documentation that includes a comparison of the section properties and material strengths of the proposed substitution lumber product compared to that of the specified lumber product.
      ii. Laminated Veneer Lumber (LVL) shall be Micro-Lam 1.9E by Trus-Joist Corporation, Versa-Lam 2.0E Boise Cascade Corporation, RedLam 2.0E by RedBuilt, SolidStart LVL 2.0E by LP Corporation or RigidLam 2.0E by Roseburg or an approved equal.
      iii. Rimboard shall be TimberStrand LSL Rim Board by Trus-Joist Corporation, Versa-Rim by Boise Cascade Corporation, SolidStart LSL by LP Corporation, LSL or LVL Rim Board by RedBuilt or OSB RigidRim RimBoard by Roseburg (Rimboard shall be 1.1/8" thick, minimum), Rimboard LSL by RedBuilt or an approved equal.
      iv. Open Web Wood Trusses shall be as manufactured by RedBuilt.
      v. All required blocking, bridging, and bracing shall be provided by joist manufacturer and installed by contractor. All penetrations through the joists shall be done per manufacturers' recommendations and requirements.
   c. Sheathing
      i. Wood sheathing shall meet the minimum performance criteria given in APA PRP-108, Performance Standards and Policies for Structural-Use Panels, Form E445, Voluntary Product Standard PS 1 & PS 2 and Performance Standard for Wood-Based Structural-Use Panels, Form S350, and Structural Plywood, Form H860. Panels shall be unsanded plywood or oriented strand board (OSB) and shall be interior grade with exterior glue and have the minimum following thickness and span rating indicated in the "Sheathing Schedule at Roof and Floor" on sheet S6.03.
   d. Fasteners
      i. General framing and carpentry shall be connected as per "Minimum Nailing Schedule" on sheet S6.03 unless noted otherwise.
      ii. All fasteners, including nails, for preservative-treated and fire retardant-treated wood shall be hot-dipped zinc-coated galvanized steel or stainless steel.
      iii. Bolts for general wood to wood connections shall be ASTM A307A or A36 with ASTM A563A hex nuts and ATSM F844 washers, Grade A, unless noted otherwise.
   e. Framing connectors:
      i. All framing anchors, connectors, post caps, hold downs, column bases, joist hangers, etc. shall be provided by Simpson Strong-Tie as indicated on these plans. If the contractor elects to substitute for another manufacturer, the contractor shall submit a revised connector list, prior to construction, that includes the following information:
         1. Specified connector indicated on these plans
         2. Requested substitution connector
         3. Allowable capacity of the requested substitution connector

2. All wood (with the exception of engineered lumber) in contact with concrete, masonry or soil shall be pressure treated.

3. At floor framing, provide approved bridging at 8'-0" o.c. maximum between joist end supports for dimensional lumber members with a nominal depth-to-thickness ratio exceeding 6 to 1. Bridging shall consist of not less than full-depth solid blocking, 1" x 3" diagonal lumber with double nailing at each end, equivalent metal bracing or equal rigidity, or other approved bridging.

4. Built-up beams and columns shall be constructed as per "Built-up Wood Member Detail" on sheet S5.11 unless noted otherwise.

5. All walls shall have a minimum of two top plates. Splices in top plates shall be staggered a minimum of 4 ft from the nearest splice in adjoining top plate.

PREFABRICATED METAL PLATE WOOD TRUSSES

1. The Prefabricated metal plate wood trusses shall be designed, signed, and sealed by a Professional Engineer registered in the same state as the project location. They shall be designed to support the concentrated and other distributed loads as shown on the framing plans in addition to the following uniform loads:
   a. Dead Load (Top Chord)= 10 psf
   b. Dead Load (Bottom Chord)= 10 psf
   c. Snow Load (Top Chord)= 30 psf
   50 psf Total Load

   Coordinate the design with all mechanical equipment, fire sprinkling systems and hanging walls supported by the trusses. Provide extra trusses where required.

2. Design all wood trusses and bearing attachments for wind uplift. Assume a dead load of 8 psf to resist uplift.

3. Where the parapet is required to be built into the truss profile, design the parapet for an ultimate wind load of 50 psf in either direction.

4. Refer to architectural drawings for truss profile. Detailing and shop drawing production for prefab metal plate wood trusses will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevation and slopes are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural drawings. Coordinate roof slope with architectural roof plan, sections and elevations.

5. All truss-to-truss connections shall be designed and provided by the truss manufacturer.

6. Design, handling, erection, and permanent bracing of metal plate connected wood trusses shall be in accordance with ANSI/TPI-1, National Design Standard for Metal Plated Connected Wood Truss Construction.

7. Steel Connector Plates: All steel gusset plates shall be galvanized and shall be approved by the "Research Committee for the International Code Council". Submit a copy of the ICC Report for the connector plate used. Values established by this committee must be indicated on the shop drawings.
   a. Stress increases for steel connector plate values for duration of load are not allowed.
   b. The minimum size for any connector shall be 8 square inches (not required at truss blocking).
   c. All steel gusset plates shall be located on the joint as the stresses require and shall provide a minimum bite of 2.1/2" length on all tension members (not required at truss blocking).
   d. All steel plate dimensions shall be increased by 10% above that required by analysis.
   e. Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.

8. No wane, knots, skips, or other defects shall occur in the plated contact area or scarfed area of web members. Plates shall be centered with one required each side of wood truss

9. The trusses shall be handled and stored in a manner to prevent moisture from being absorbed by the wood.

10. Requirements for truss stability and erection shall comply with the Truss Plate Institute publications entitled "Commentary and Recommendations for Bracing Wood Trusses" and "Commentary and Recommendations for Handling and Erecting Wood Trusses." The contractor shall have copies of these publications on site and shall be familiar with their contents.

11. Shop Drawings: Complete calculations and shop drawings indicating all member forces, stresses, duration factors, lumber grades, dimensions, truss to truss connections, steel truss plate sizes and locations shall be submitted and reviewed by the engineer before fabrication. Each connector shall be dimensioned on the shop drawings as to its exact location at the joint.

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Bid Set

DRAWING NO.:

S0.03
GENERAL STRUCTURAL NOTES

REQUIREMENTS FOR SPECIAL INSPECTION, MATERIAL TESTING, AND STRUCTURAL OBSERVATION

STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance (including structural testing), as required by section 1704 and 1705 of the 2018 IBC, shall be provided by an independent agency employed by the owner for the items in this section and other areas of the approved construction documents, unless waived by the building official.	
The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval.	
Responsibilities of the Special Inspector	
	Special Inspector shall review all work listed in the special inspection schedules herein for conformance with the approved construction plans, specifications and 2018 IBC.
	Testing and inspection reports shall be sent on a weekly basis to the architect, engineer, building official and contractor for review. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the architect, engineer and building official.
	Once corrections have been made by the contractor, the special inspector shall submit a final signed report to the building official stating that the work requiring special inspection was, to the best of the special inspector's knowledge, in conformance with the approved construction plans, specifications and 2018 IBC.
Responsibilities of the Contractor	
	The contractor shall submit a written statement of responsibility to the owner and the building official prior to the commencement of work in accordance with 2018 IBC section 1704.4. This statement shall indicate that the contractor will coordinate and cooperate with the required inspections contained herein.
	The contractor shall notify the designated special inspector that work is ready for inspection at least 24 hours before said inspection is required.
	All work requiring special inspection shall remain open and accessible until it has been observed by the special inspector and deemed acceptable through inspection report.
	Special inspection during fabrication is not required if the fabricator is registered and approved by the authority having jurisdiction to perform such work without special inspection. Upon completion of fabrication, the approved fabricator shall submit a certificate of compliance for submittal to the building official.
	The contractor shall be responsible for their own quality control including materials, fabrication, erection, etc.

SOILS CONSTRUCTION INSPECTIONS

Soils (2018 IBC Section 1705.6)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Site Preparation	-	X	Verify that the site has been prepared in accordance with the soils report prior to placement of prepared fill. (Engineer note: with soils report)
Fill Material	X	-	Verify that the material being used, the maximum lift thickness and the in-place dry density of the compacted fill material comply with the soils report during placement and compaction of the fill material during placement and compaction. (Engineer note: with soils report)
Continuous Footing Backfill: at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests.	-	X	At each compacted backfill layer.
Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.	-	X	At each compacted backfill layer.
See specifications for further requirements.	-	-	

CONCRETE CONSTRUCTION INSPECTIONS

Concrete (2018 IBC Section 1705.3, Table 1705.3, and Section 1705.12) The following concrete elements require special inspection:

All concrete footings, Exterior concrete footings only, All concrete walls, including foundation walls, Interior concrete slab-on-grade.

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Protection of concrete during cold and hot weather	-	X	
Verify materials used including use of the required mix design	-	X	Verify mix design meets strength and exposure requirements listed on General Structural Notes
Formwork	-	X	Verify shape, location and member dimensions
Bolts installed in concrete	X	-	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. Prior to and during concrete placement.
Embeds and Inserts installed in concrete	X	-	Prior to and during concrete placement.
Concrete reinforcing steel placement	-	X	Verify that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Concrete placement and samples	X	-	Cylinders, slump, temperature and air-entrainment shall be done for every 150 cubic yards or each day's production if the day's production is less than 150 cubic yards nor less than once for each 5000 sq. ft of surface area for slabs and walls.
See specifications for further concrete testing requirements.	-	-	

OPEN-WEB STEEL JOIST CONSTRUCTION INSPECTIONS

Installation of open-web steel joists (IBC 2018 Section 1705.2.3, and Table 1705.2.3)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
End connections – welding or bolted	-	X	Follow SJI references listed in section 2207
Standard horizontal and diagonal bridging	-	X	Follow SJI references listed in section 2207
Bridging that differs from SJI specifications listed in section 2207.1	-	X	

MISCELLANEOUS STEEL CONSTRUCTION INSPECTIONS

Metal Deck Construction (2018 IBC section 1705.2.2, AWS D1.3, and section 6.1 of SDI QA/QC-2011)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Material verification of metal deck(s)	-	X	Confirm that identification markings are provided that conform to applicable ASTM standards specified on construction documents
Placement and installation of metal deck	-	X	Confirm that the deck is installed per the approved construction documents, installation drawings, shop drawings and applicable reference standards.
Steel deck welding/fastening (prior to concrete placement at floor)	-	X	Visual inspection is required to verify size and spacing of welds/fasteners for deck attachment to the supporting structure. Also verify spacing and size of side-seam attachments. Confirm that welds/fasteners meet acceptance criteria of applicable referenced standards and manufacturer's instructions. Where applicable, welder qualifications should be verified.

MASONRY CONSTRUCTION INSPECTIONS

Prior to Construction (2018 IBC section 1705.4 and TMS 602 Table 3)

ITEM FOR VERIFICATION	COMMENTS
Verification of compliance of submittals	Verify that materials conform to the requirements of the approved submittals. Mix design, test results, material certificates, and construction procedures should be submitted for review.
Verification of f'm	Verify that materials conform to the requirements of the approved construction documents.
Verification of material certificates, mix designs, and test results	Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.

As masonry construction begins (2018 IBC section 1705.4 and TMS 602 Table 4)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Proportions of site-prepared mortar, construction of mortar	-	X	
Grade, type and size of reinforcement, connector, and anchors	-	X	
Sample wall panel construction	-	X	Use materials and procedures accepted for the Work to create a minimum sample panel size of 4 ft by 4 ft. The acceptable standard for the Work is established by the accepted panel and retained at the project site until Work has been accepted.

Prior to grouting and during construction - Structural Masonry shall have Level 2 special inspection (2018 IBC section 1705.4 and TMS 602 Table 4)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Grout Space	-	X	Verify grout space is clean prior to grouting
Placement, grade, type and size of reinforcement, connectors and anchor bolts and anchorages	-	X	
Proportions of site-prepared grout	-	X	
Materials and procedures with the approved submittals	-	X	
Placement of masonry units and mortar joint construction	-	X	
Size and location of structural members	-	X	
Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction	-	X	
Protection of masonry during cold weather (below 40 deg F) and hot weather (above 90 deg F)	-	X	
Grout placement (including verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.)	X	-	
Observe preparation of grout specimens, mortar specimens and/or prisms	-	X	The contractor has the option of using the "Prism Test Method" per ACI 530.1/ASCE 6/TMS 602 in lieu of the "Unit Strength Method."

WOOD CONSTRUCTION INSPECTIONS

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Wood diaphragms and shear walls (2018 IBC Sections 1705.5, 1705.11.1 and 1705.12.2)			
All wood diaphragms and shear walls with sheathing fastener spacing at panel edges is equal to or less than 4" o.c.	-	X	Verify wood panel sheathing, grade, thickness and nominal size of framing members, adjoining panel edges, nailing, bolting, anchoring (including hold downs) and other fastening of components within the lateral force resisting system.

POST-INSTALLED ANCHOR INSPECTIONS

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Post-Installed Anchors and Reinforcing Bars (2018 IBC Section 1705.1.1)			
Adhesive Anchors and Reinforcing Bars	X	-	Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of epoxy and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads, special inspection may be reduced to a periodic frequency. A pull test shall be provided for 10% of the anchors.
Mechanical Anchors and Screw Anchors	-	X	Special inspection shall be provided per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of mechanical or screw anchor.

NON-STRUCTURAL COMPONENT CONSTRUCTION INSPECTIONS

Architectural Components located in Seismic Design Categories C, D, E and F (2018 IBC Sections 1705.12.5 and 1705.12.7)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Exterior cladding, and exterior veneer	-	X	Verify attachments of exterior metal clad fastening systems, drift clips, veneer support angles and attachments, and all masonry, stone or rain screen seismic attachments.
Erection and fastening of interior and exterior nonbearing walls	-	X	Verify appropriate materials, fasteners and attachment at commencement of work and at completion. (Not required if <30 feet or for interior walls < 15 psf.)

STRUCTURAL OBSERVATION PROGRAM

If structural observations are required, they shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed in the Construction Notification Phases section of these notes. At the conclusion of the project, the designated structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that to the best of the structural observer's knowledge have not been resolved (See IBC 2018 1704.6).

STRUCTURAL OBSERVATION PROGRAM REQUIRED BY CODE:	YES	NO
	X	-

CONSTRUCTION MILESTONE SCHEDULE

CONTRACTOR TO NOTIFY ENGINEER AT THE FOLLOWING CONSTRUCTION PHASES:	
CONCRETE	
Footings, stem walls and piers	Prior to pouring concrete
STEEL	
Roof framing	After substantial portion of framing is erected
Roof deck	After welding/fastening and prior to roofing
MASONRY	
Masonry walls	Prior to pouring grout
WOOD	
Wall framing	After substantial portion of framing is completed
Roof framing	After substantial portion of framing is completed
Wood shear walls	After substantial portion of framing is completed and prior to covering either side of shear walls
Wood roof sheathing	After substantial portion of framing is completed and prior to roofing

DEFERRED SUBMITTALS

For the purposes of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC 2018. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building.

DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE

Prefabricated metal plate wood trusses

Open web steel joists and girders (per IBC 2018 section 2207)

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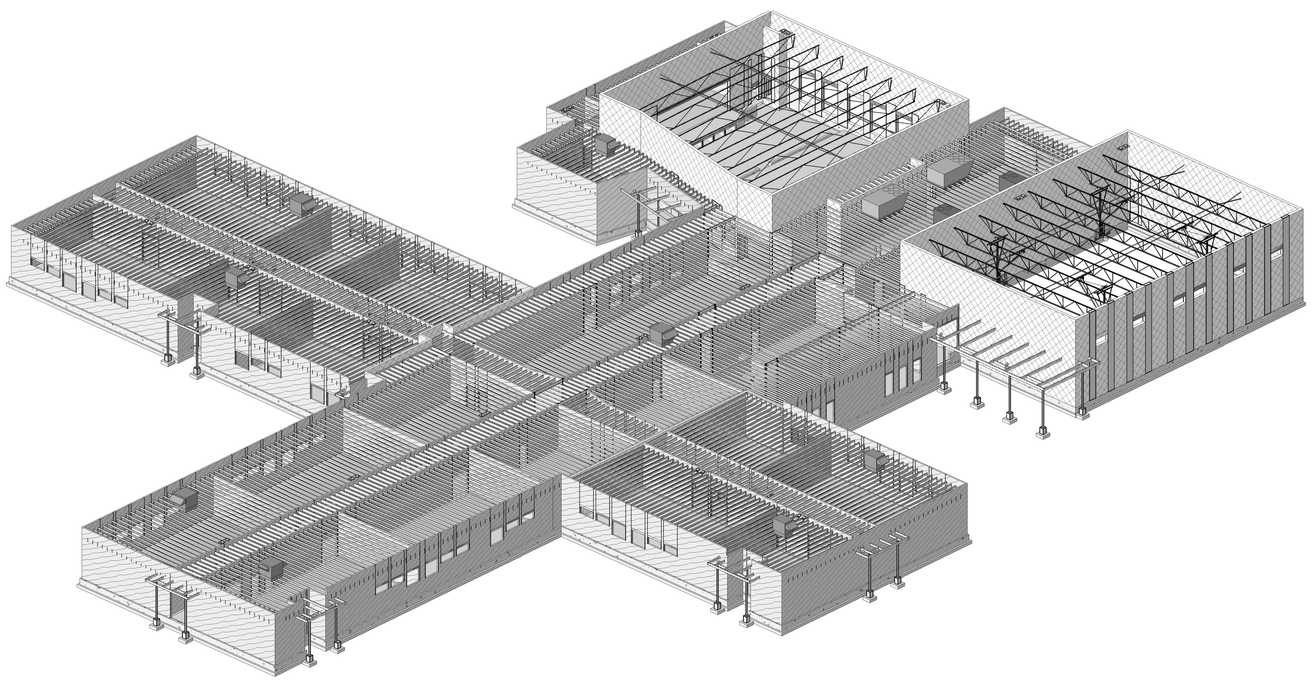
SPECIAL INSPECTION

LEGEND OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT(S)	k	KIP(S) = 1000 POUNDS
ABV	ABOVE	KLF	KIPS PER LINEAL FOOT
ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT
APPROX	APPROXIMATE		
ARCH	ARCHITECT(URAL)	LBS	POUNDS
		LF	LINEAL FOOT
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BLW	BELOW	LLV	LONG LEG VERTICAL
BM	BEAM	LSH	LONG SIDE HORIZONTAL
B.N.	BOUNDARY NAILING	LSV	LONG SIDE VERTICAL
BOT	BOTTOM	LVL	LAMINATED VENEER LUMBER
BRG	BEARING		
BTWN	BETWEEN	MAS	MASONRY
		MAX	MAXIMUM
CC.	CENTER-TO CENTER	MCJ	MASONRY CONTROL JOINT
C.J.	CONST/CONTROL JOINT	MC-x	MASONRY COLUMN MARK
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL
COL	COLUMN	MFR	MANUFACTURER
CONC	CONCRETE	MIN	MINIMUM
CONST	CONSTRUCTION	MISC	MISCELLANEOUS
CP-x	CONCRETE PIER	ML-x	MASONRY LINTEL
CRW-x	CONCRETE RETAINING WALL	MP-x	MASONRY PIER
CTR	CENTER	MW-x	MASONRY WALL
CW-x	CONCRETE WALL		
		NIC	NOT IN CONTRACT
DB	DECK BEARING	NTS	NOT TO SCALE
DBA	DEFORMED BAR ANCHOR		
DBE	DECK BEARING ELEVATION	O.C.	ON CENTER
DBL	DOUBLE	O.F.	OUTSIDE FACE
DET	DETAIL	OPNG	OPENING
DIA	DIAMETER	OPP	OPPOSITE
DIM	DIMENSION	OWSJ	OPEN WEB STEEL JOISTS
DN	DOWN		
DWG	DRAWING	PAF	POWDER-ACTUATED FASTENER
DWL	DOWEL	PCF	POUNDS PER CUBIC FOOT
		PL	PLATE
EA	EACH	PLF	POUNDS PER LINEAL FOOT
E.N.	EDGE NAILING	PNL	PANEL
E.F.	EACH FACE	PSF	POUNDS PER SQUARE FOOT
E.J.	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PT	POINT
ELEV	ELEVATION	P-T	POST-TENSION
E.O.D.	EDGE OF DECK		
EQUIP	EQUIPMENT	REINF	REINFORCING
EQ	EQUAL	REQD	REQUIRED
E.W.	EACH WAY	R.D.	ROOF DRAIN
EXT	EXTERIOR	RTU	ROOF TOP UNITS
FC-x	CONTINUOUS FOOTING MARK	SBP-x	STEEL BASE PLATE MARK
F.D.	FLOOR DRAIN	SC-x	STEEL COLUMN MARK
FDN	FOUNDATION	SCP-x	STEEL CAP PLATE MARK
F.F.	FINISHED FLOOR	SHT	SHEET
F.N.	FIELD NAILING	SI	SPECIAL INSPECTION
FR-x	RECTANGULAR FOOTING	SIM	SIMILAR
FS-x	SQUARE FOOTING MARK	SMU	SUSPENDED MECHANICAL UNITS
FT	FOOT	SOG	SLAB-ON-GRADE
FTG	FOOTING	SQ	SQUARE
FTS-x	THICKENED SLAB MARK	STAG	STAGGERED
		STD	STANDARD
GA	GAUGE	STL	STEEL
GALV	GALVANIZED	STR	STRUCTURAL
GLB	GLU-LAM BEAM	STS	SELF TAPPING SCREWS
GSN	GENERAL STRUCTURAL NOTES		
		T&B	TOP AND BOTTOM
HB	HORIZONTAL BRIDGING	TEMP	TEMPERATURE
HORIZ	HORIZONTAL	THDS	THREADS
HSA	HEADED STUD ANCHOR	T.O.	TOP OF
HT	HEIGHT	TOC	TOP OF CONCRETE
		TOD	TOP OF DECK
ICC	INTERNATIONAL CODE COUNCIL	TOF	TOP OF FOOTING
IBC	INTERNATIONAL BUILDING CODE	TOS	TOP OF STEEL
I.F.	INSIDE FACE	TOW	TOP OF WALL
IN.	INCH	TYP	TYPICAL
INT	INTERIOR		
		UNO	UNLESS NOTED OTHERWISE
JT	JOINT		
JST	JOIST	VERT	VERTICAL
		W/	WITH
		WT	WALL THICKNESS
		WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- FOOTING DESIGNATION
- TOP OF FOOTING ELEVATION
- INDICATES ROOF OFFSET, SEE DETAIL
- INDICATES CONCRETE WALL. DASHED WALLS STOP AT DECK
- INDICATES MASONRY WALL. DASHED WALLS STOP AT DECK
- DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAILS 6/S5.01 AND 1/S5.03
- INDICATES WOOD STUD WALL. DASHED WALLS STOP AT DECK
- INDICATES NON-STRUCTURAL WALL ABOVE (NOT ALL ARE SHOWN)
- CW-x/WSW-x — INDICATES WOOD SHEARWALL (AND TYPE) OVER CONCRETE WALL (AND TYPE). SEE SCHEDULES ON SHEET(S) S6.01 S6.03
- MW-x — INDICATES MASONRY WALL TYPE, SEE SCHEDULE ON SHEET S6.02
- WSW-x — INDICATES WOOD SHEARWALL TYPE, SEE SCHEDULE ON SHEET S6.03
- INDICATES DEPRESSED SLAB. SEE ARCHITECTURAL PLANS.
- INDICATES PLYWOOD ROOF SHEATHING, SEE SCHEDULE ON SHEET S6.03
- INDICATES METAL ROOF DECK. SEE GENERAL STRUCTURAL NOTES
- S — S — INDICATES FOOTING STEP, SEE DETAIL 3/S5.01
- INDICATES FLOOR OFFSET, SEE DETAIL 6/S5.01
- INDICATES CONTROL / CONSTRUCTION JOINT, SEE DETAIL(S) 5/S5.01
- R.D. — INDICATES ROOF DRAIN. SEE DETAIL 6/S5.11
- RTU — INDICATES ROOF MECHANICAL UNIT AND WEIGHT OF UNIT
- FCx.x — INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S6.01
- FSx.x — INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S6.01
- FTSx.x — INDICATES THICKENED SLAB FOOTING. SEE SCHEDULE ON SHEET S6.01
- MCJ — INDICATES MASONRY CONTROL JOINT, SEE DETAIL S6.02
- ML-x — INDICATES MASONRY LINTEL TYPE. SEE SCHEDULE ON SHEET S6.02
- MP-x — INDICATES MASONRY PIER TYPE. SEE SCHEDULE ON SHEET S6.02
- C.J. — INDICATES CONTROL / CONSTRUCTION JOINT, SEE DETAIL(S) 5/S5.01
- CP-x — INDICATES CONCRETE PIER. SEE SCHEDULE ON SHEET S6.01
- HD-x — INDICATES HOLD DOWN TYPE. SEE SCHEDULE ON SHEET S6.03
- WH-x — INDICATES WOOD HEADER TYPE. SEE SCHEDULE ON SHEET S6.03
- _LH ("*") — INDICATES LH-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD



Structural Sheet List

Sheet Number	Sheet Name	Sheet Issue Date
S0.01	GENERAL STRUCTURAL NOTES	2-11-22
S0.02	GENERAL STRUCTURAL NOTES	2-11-22
S0.03	GENERAL STRUCTURAL NOTES	2-11-22
S0.04	SPECIAL INSPECTION	2-11-22
S0.10	LEGENDS AND ABBREVIATIONS	2-11-22
S1.00	FOOTING AND FOUNDATION PLAN - OVERALL	2-11-22
S1.01	FOOTING AND FOUNDATION PLAN - AREA A	2-11-22
S1.01A	ADD ALTERNATE 1	2-11-22
S1.02	FOOTING AND FOUNDATION PLAN - AREA B	2-11-22
S1.03	FOOTING AND FOUNDATION PLAN - AREA C	2-11-22
S1.04	FOOTING AND FOUNDATION PLAN - AREA D	2-11-22
S1.04A	ADD ALTERNATE 2	2-11-22
S1.05	FOOTING AND FOUNDATION PLAN - AREA E	2-11-22
S1.06	FOOTING AND FOUNDATION PLAN - AREA F	2-11-22
S1.10	ROOF FRAMING PLAN - OVERALL	2-11-22
S1.11	ROOF FRAMING PLAN - AREA A	2-11-22
S1.11A	ADD ALTERNATE 1	2-11-22
S1.12	ROOF FRAMING PLAN - AREA B	2-11-22
S1.13	ROOF FRAMING PLAN - AREA C	2-11-22
S1.14	ROOF FRAMING PLAN - AREA D	2-11-22
S1.14A	ADD ALTERNATE 2	2-11-22
S1.15	ROOF FRAMING PLAN - AREA E	2-11-22
S1.16	ROOF FRAMING PLAN - AREA F	2-11-22
S5.01	DETAILS	2-11-22
S5.02	DETAILS	2-11-22
S5.03	DETAILS	2-11-22
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S5.12	DETAILS	2-11-22
S5.13	DETAILS	2-11-22
S6.01	SCHEDULES	2-11-22
S6.02	SCHEDULES	2-11-22
S6.03	SCHEDULES	2-11-22
S6.04	SCHEDULES	2-11-22

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02/24/2022

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Revisions		
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Jerome School District No. 261
N. 100 E. Jerome, Idaho

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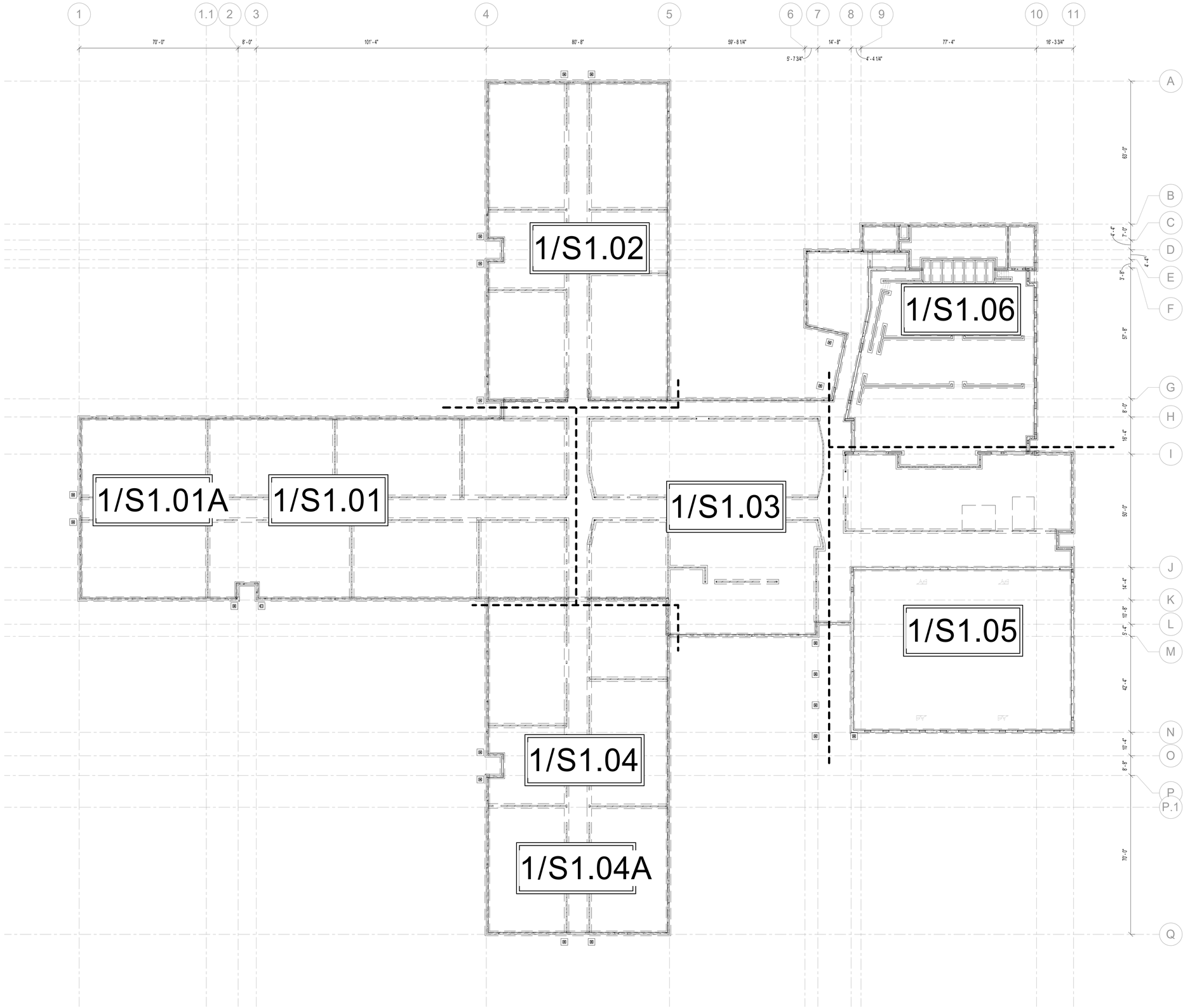
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

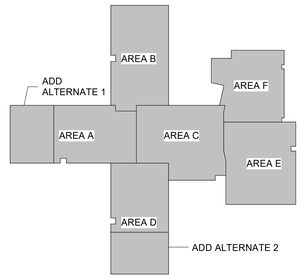
S0.10
LEGENDS AND ABBREVIATIONS



1 OVERALL FOOTING AND FOUNDATION PLAN

1" = 20'-0" 0" 4'-0" 8'-0" 16'-0"

Key Plan



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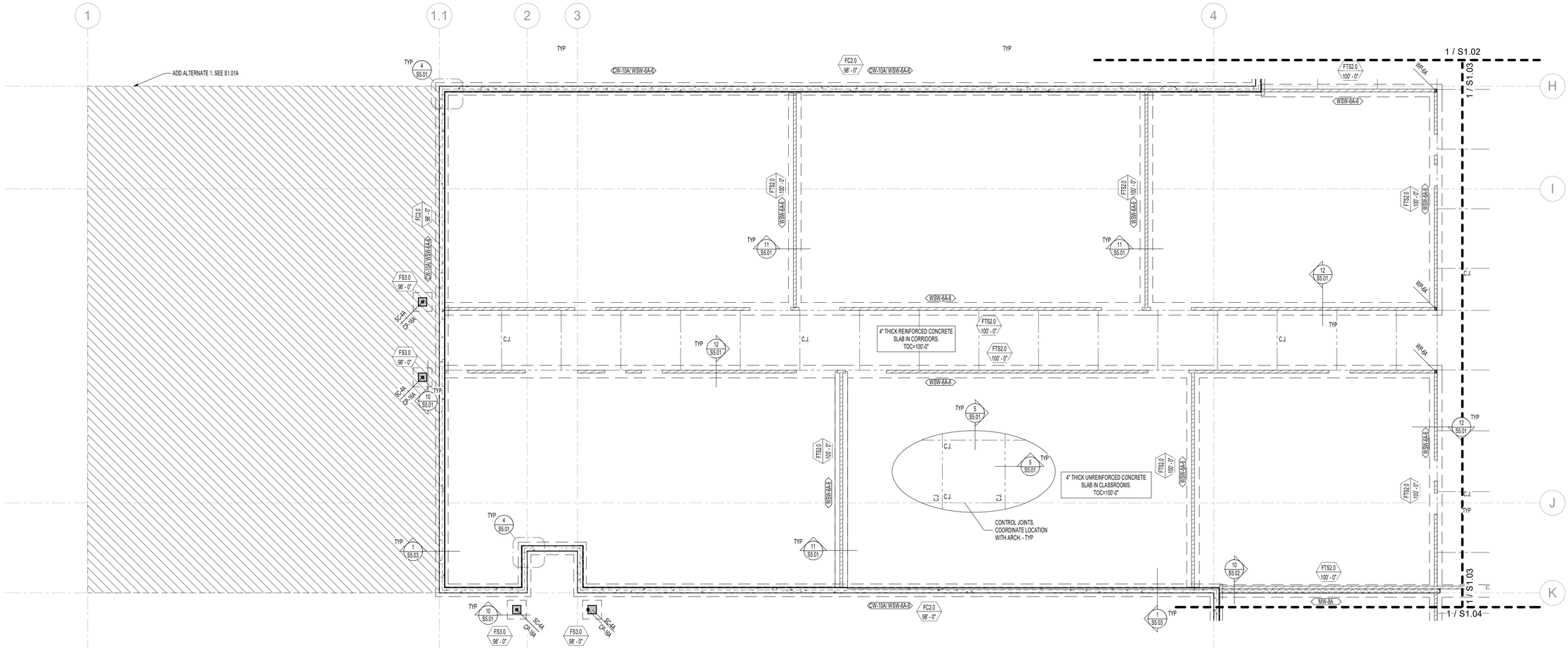
S1.00
FOOTING AND FOUNDATION PLAN – OVERALL



1 FOOTING AND FOUNDATION PLAN - AREA A

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. SEE "EARTHWORK" NOTES ON GSN AND DETAIL 9/SS.02 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
5. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
6. SEE DETAILS 1/SS.01 AND 2/SS.01 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
7. SEE DETAIL 5/SS.01 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
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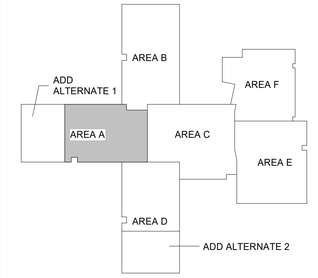
15. SEE DETAIL 7/SS.03 FOR ANCHORAGE OF HOUSEKEEPING PADS.
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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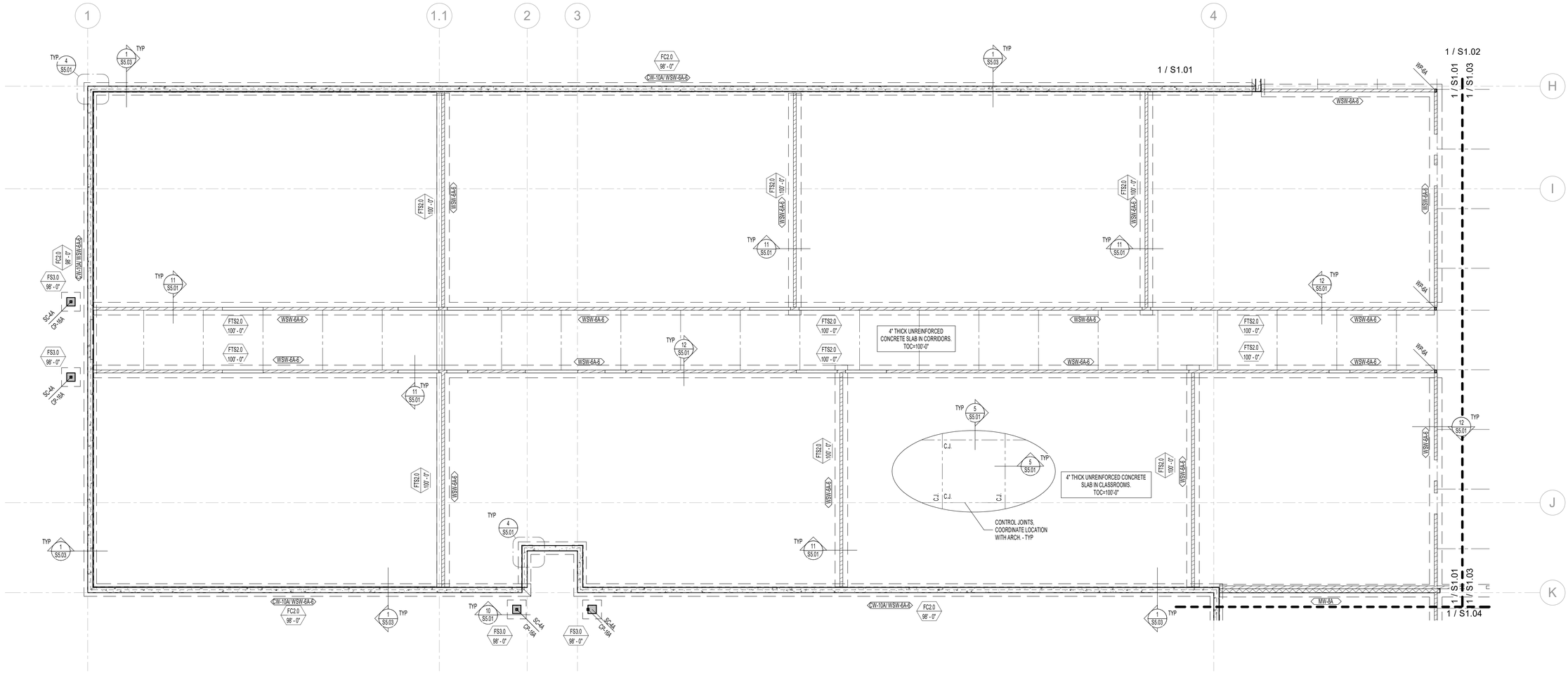
S1.01
FOOTING AND FOUNDATION PLAN – AREA A



1 FOOTING AND FOUNDATION PLAN - ADD ALTERNATE 1

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	8x6 DFL NO. 2	

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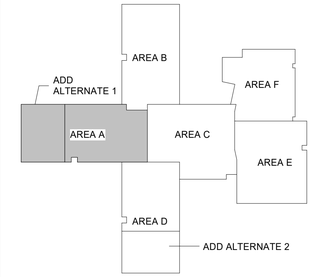
15. SEE DETAIL 7/SS.03 FOR ANCHORAGE OF HOUSEKEEPING PADS.
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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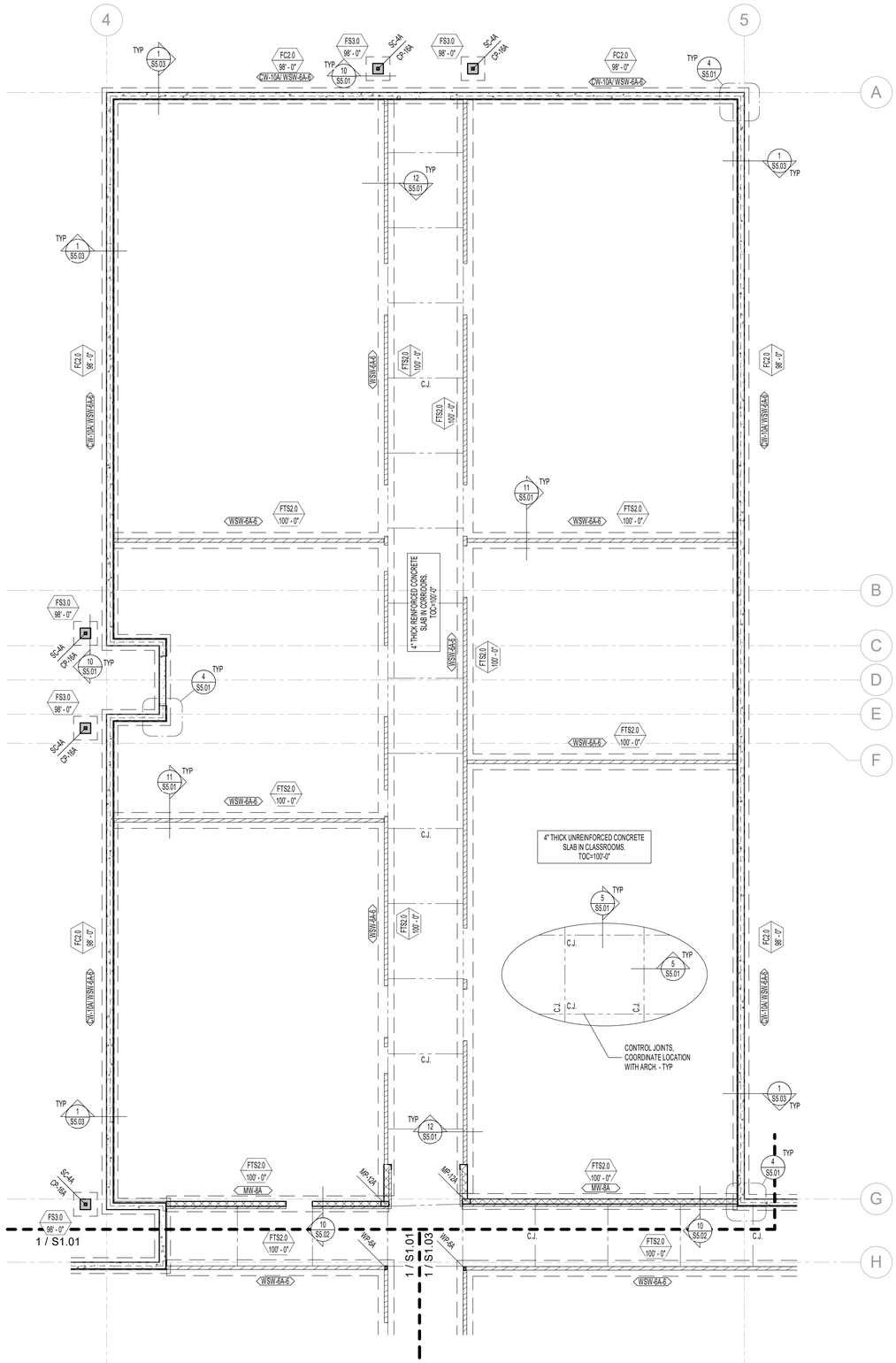
S1.01A

ADD ALTERNATE 1



1 FOOTING AND FOUNDATION PLAN - AREA B

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

NORTH

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

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12. SEE DETAIL 3/S5.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
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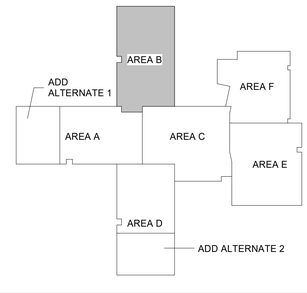
15. SEE DETAIL 7/S5.03 FOR ANCHORAGE OF HOUSEKEEPING PADS.
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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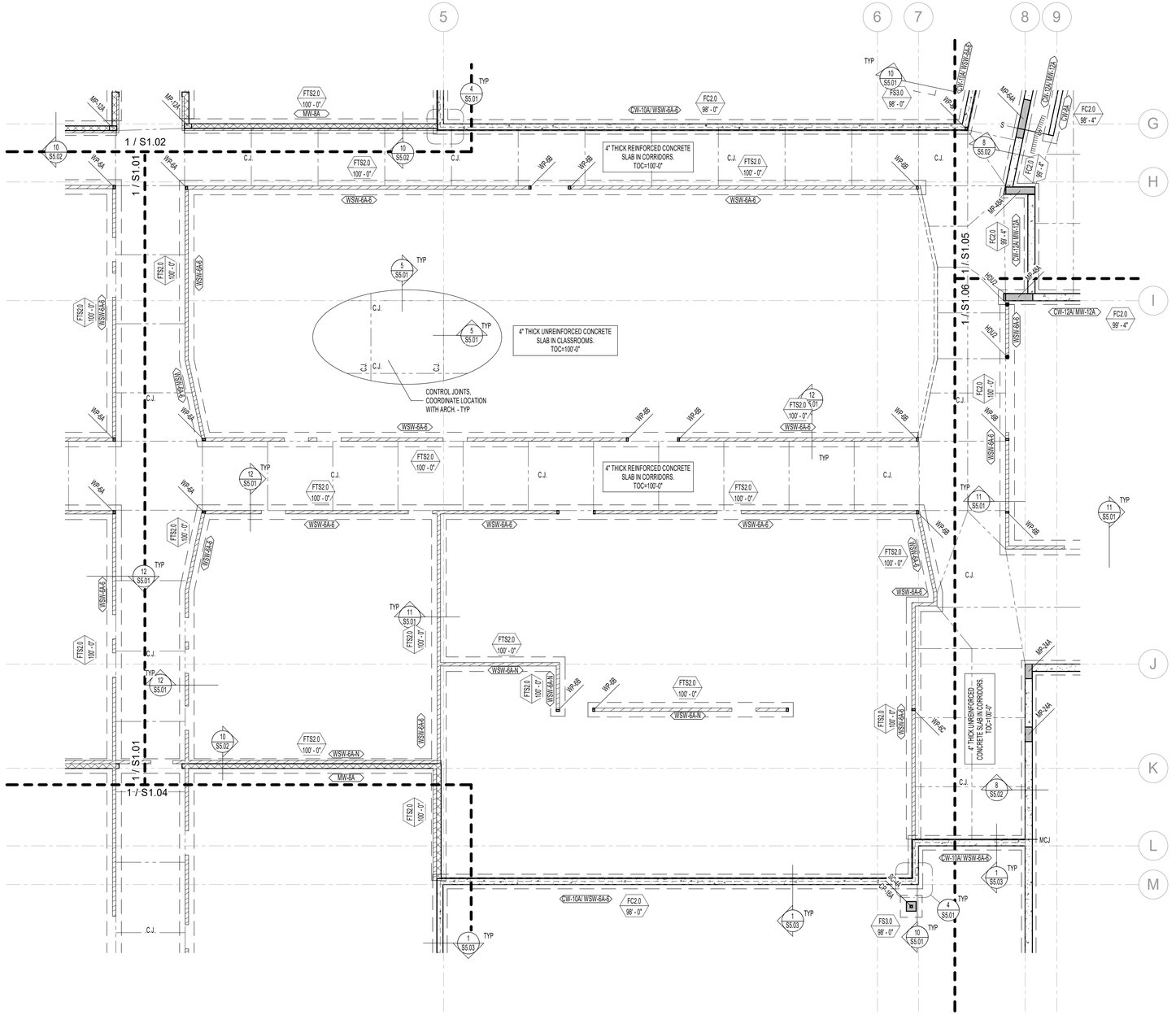
S1.02
FOOTING AND FOUNDATION PLAN – AREA B



1 FOOTING AND FOUNDATION PLAN - AREA C

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

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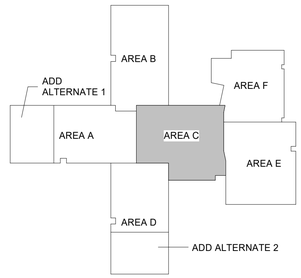

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PROFESSIONAL ENGINEER LICENSED 16702 STATE OF IDAHO ANDREW S. MORGAN

02/24/2022

BHB STRUCTURAL
390 East Corporate Drive, Ste. 104
Meridian, Idaho 83642
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Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

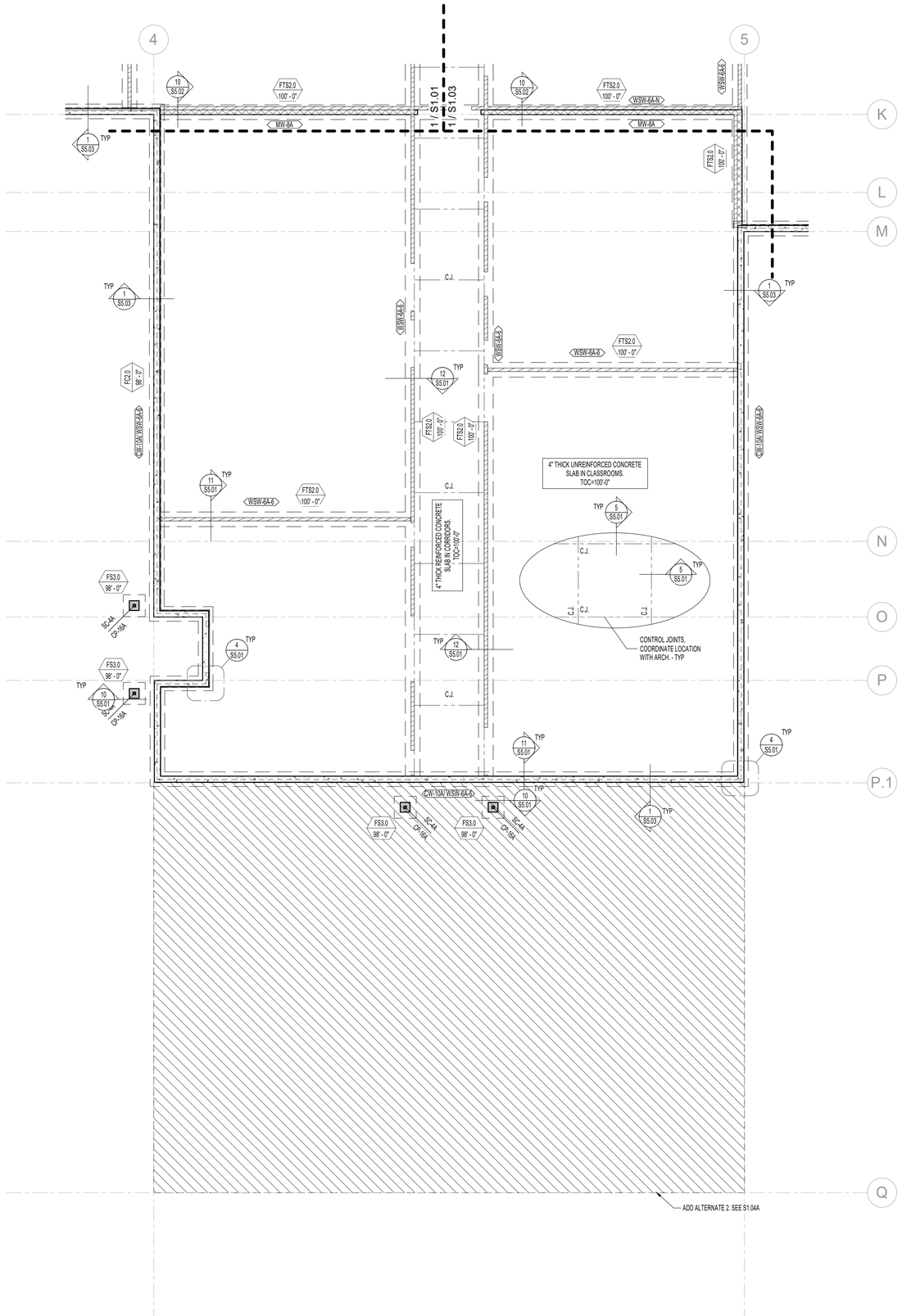
DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

S1.03
FOOTING AND FOUNDATION PLAN – AREA C



1 FOOTING AND FOUNDATION PLAN - AREA D

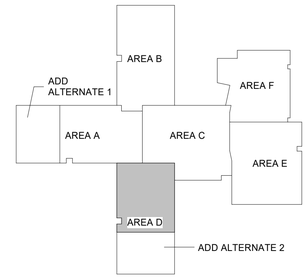
1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)		
MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. SEE "EARTHWORK" NOTES ON GSN AND DETAIL 9/S5.02 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
5. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
6. SEE DETAILS 1/S5.01 AND 2/S5.01 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
7. SEE DETAIL 5/S5.01 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
8. SEE DETAIL 7/S5.01 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
9. SEE DETAIL 8/S5.01 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
10. SEE DETAIL 2/S5.01 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
11. SEE DETAIL 9/S5.01 FOR SILL PLATE FASTENER DETAIL
12. SEE DETAIL 3/S5.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
13. SEE DETAIL 4/S5.02 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
14. SEE DETAIL 5/S5.02 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
15. SEE DETAIL 7/S5.03 FOR ANCHORAGE OF HOUSEKEEPING PADS.
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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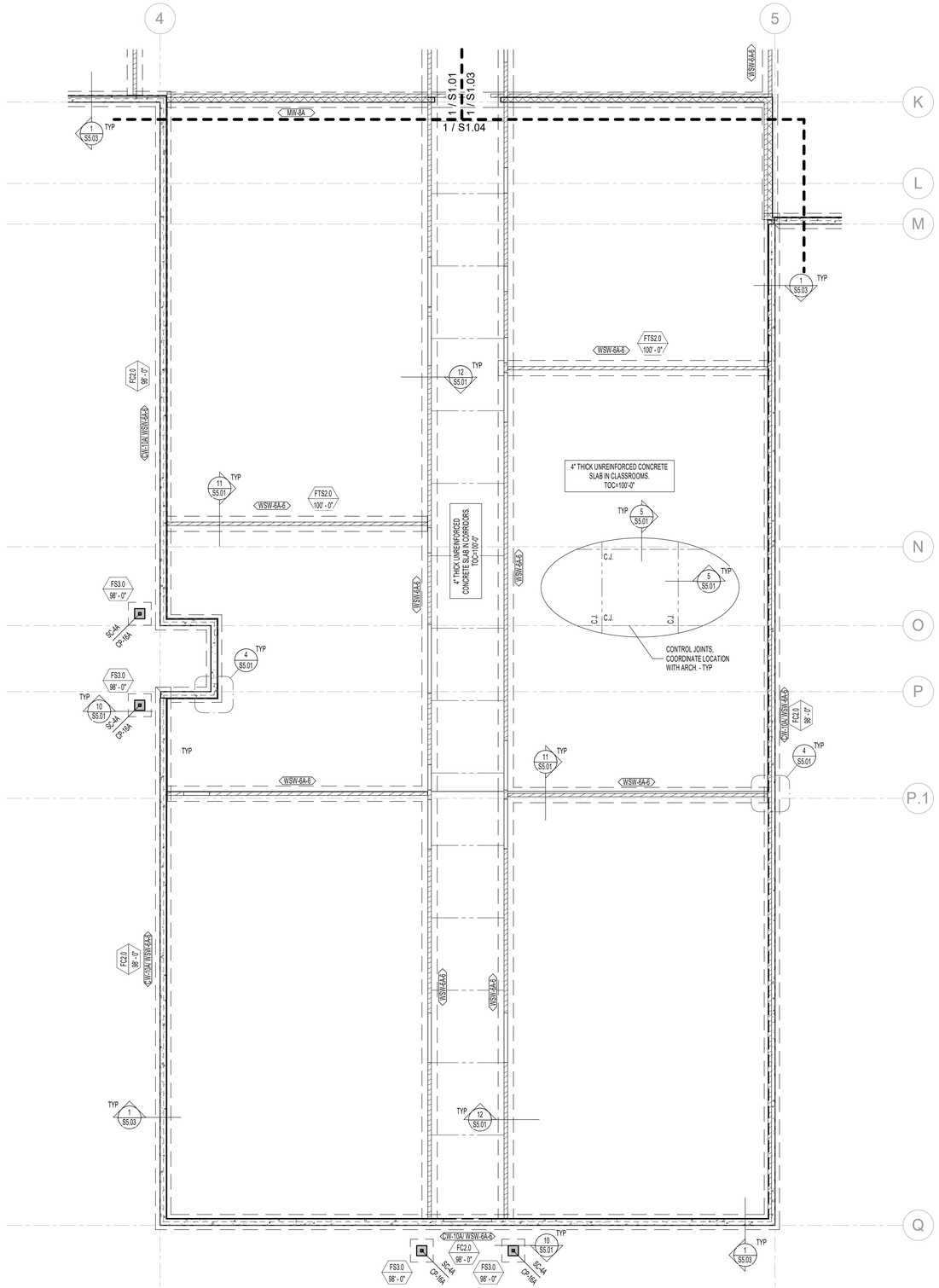
S1.04
FOOTING AND FOUNDATION PLAN – AREA D



FOOTING AND FOUNDATION PLAN ADD ALTERNATE 2

1 — 1/8" = 1'-0" — 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
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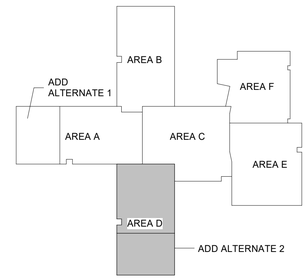
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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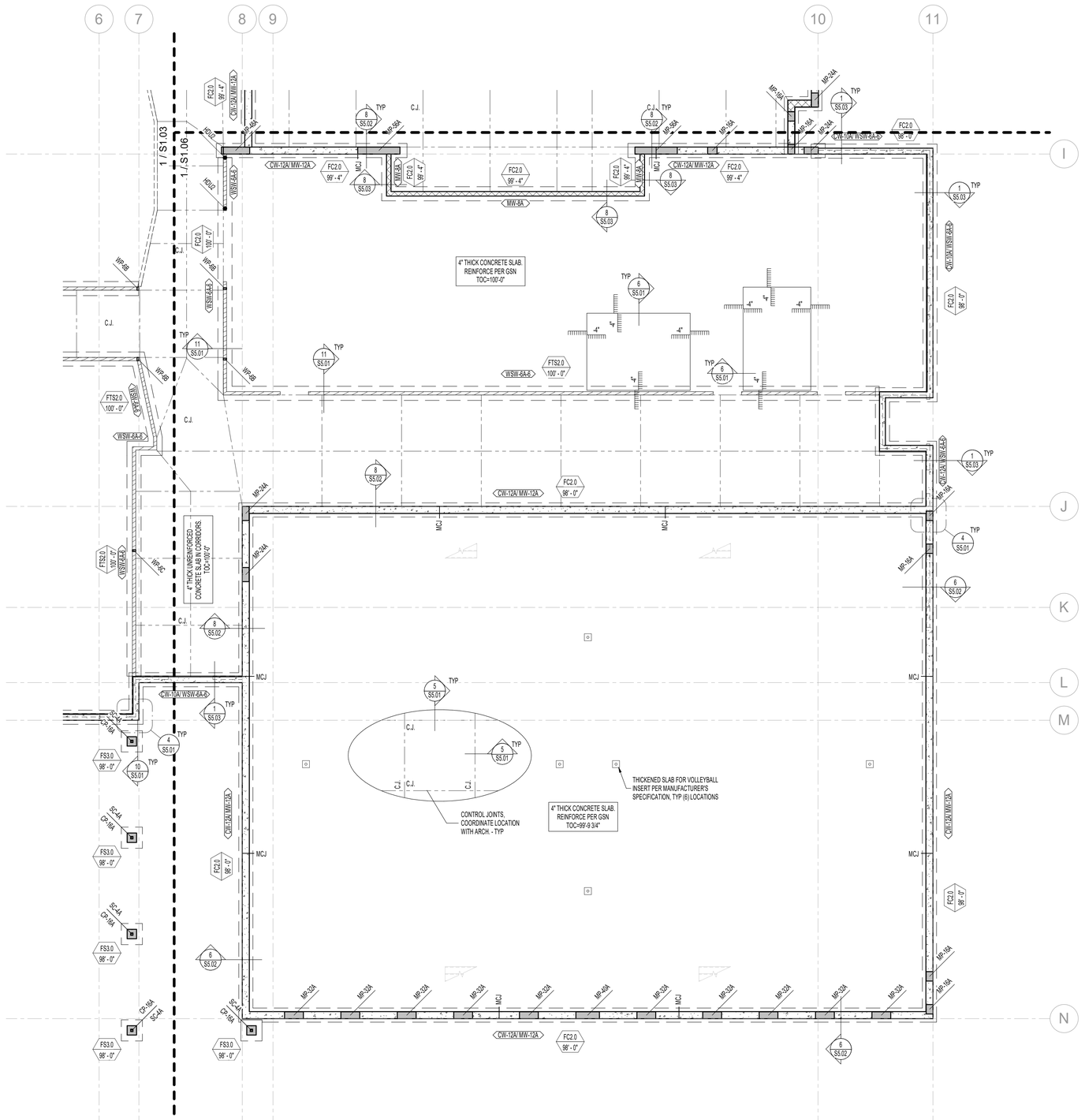
S1.04A

ADD ALTERNATE 2



1 FOOTING AND FOUNDATION PLAN - AREA E

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
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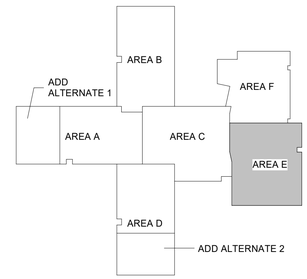
15. SEE DETAIL 7/SS.03 FOR ANCHORAGE OF HOUSEKEEPING PADS.
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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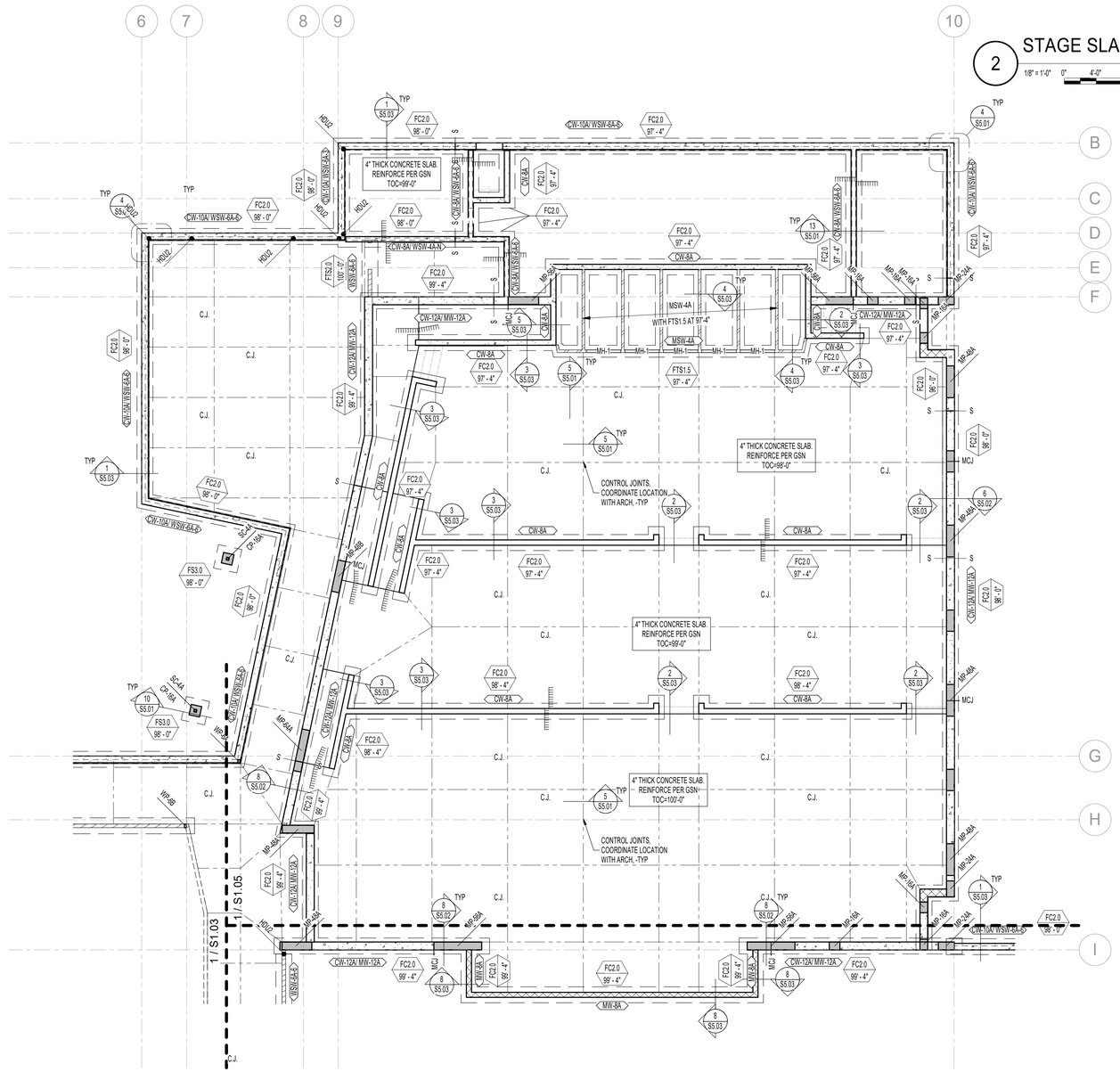
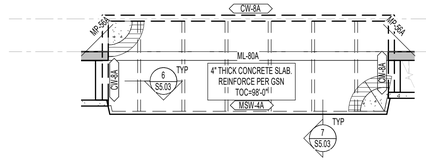
DRAWING NO.:

S1.05
FOOTING AND FOUNDATION PLAN – AREA E



1 FOOTING AND FOUNDATION PLAN - AREA F

1/8" = 1'-0"



2 STAGE SLAB PLAN

1/8" = 1'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-8A	(2) 2x6	
WP-8B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

FOOTING AND FOUNDATION PLAN NOTES

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12. SEE DETAIL 3/SS.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
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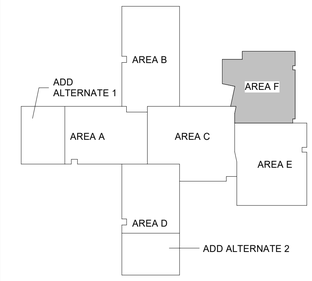
16. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

Key Plan



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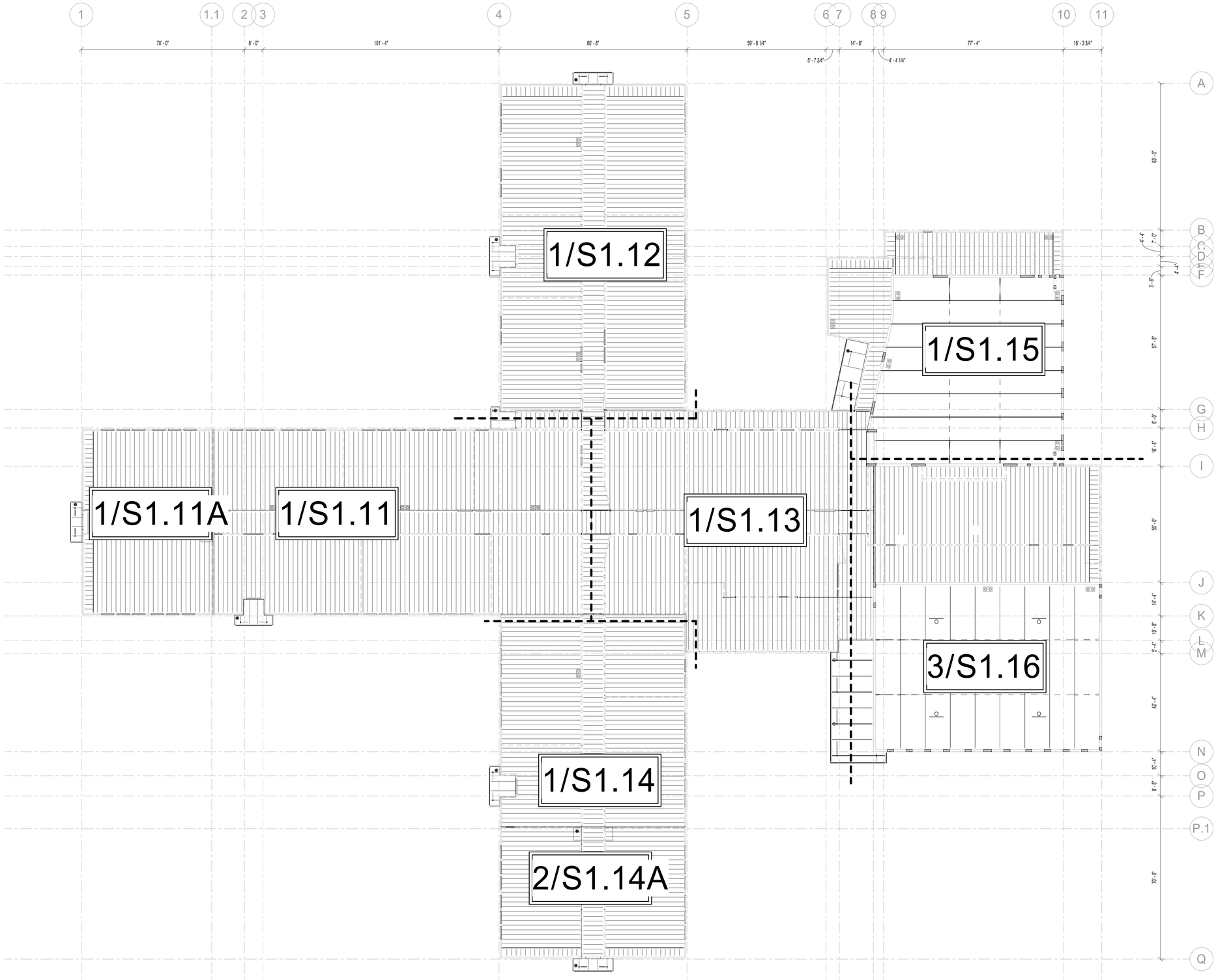
Bid Set

DRAWING NO.:

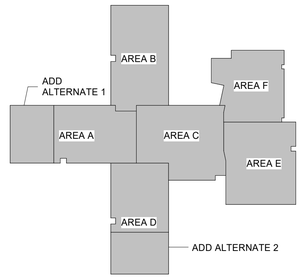
S1.06
FOOTING AND FOUNDATION PLAN – AREA F



1 OVERALL ROOF FRAMING PLAN

1" = 20'-0" 0" 4'-0" 8'-0" 16'-0"

Key Plan



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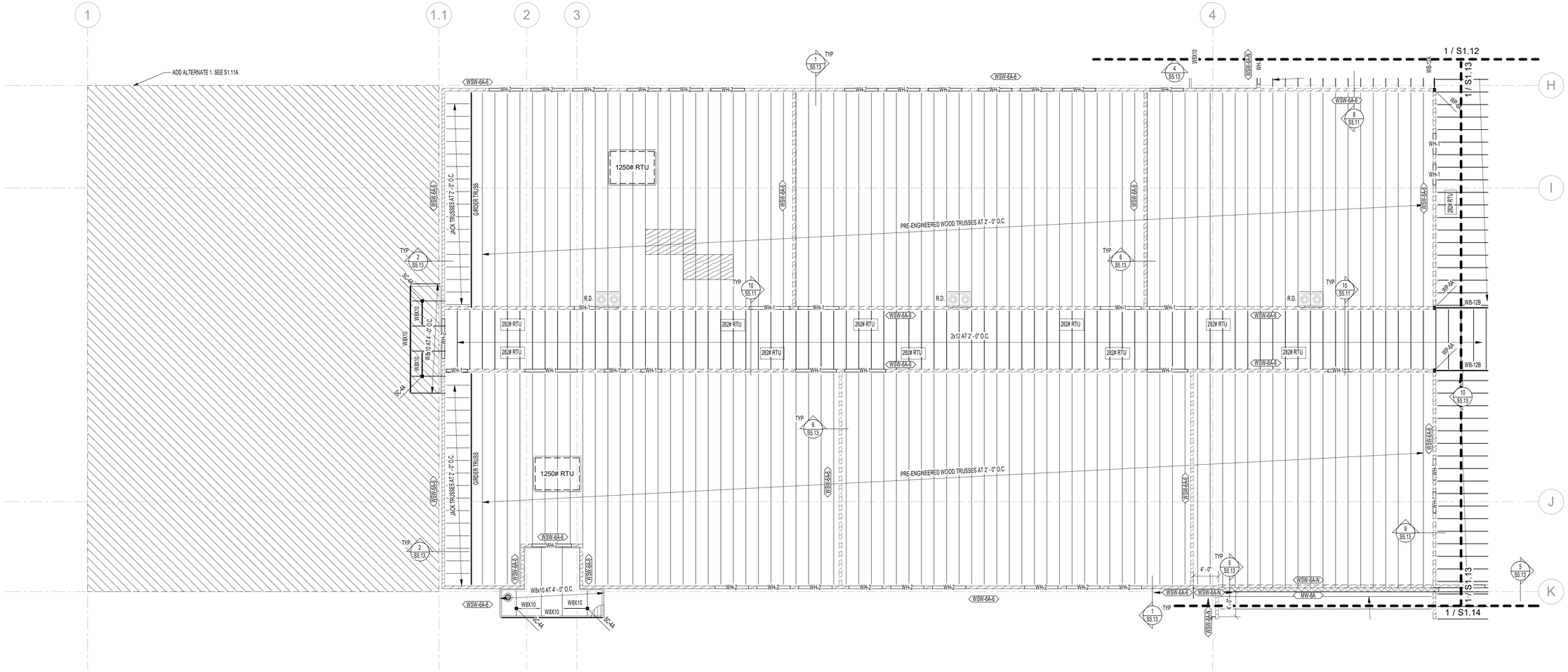
DRAWING NO.:

S1.10
ROOF FRAMING PLAN - OVERALL



1 ROOF FRAMING PLAN - AREA A

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-8A	(2) 2x6	
WP-8B	(3) 2x6	
WP-8C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

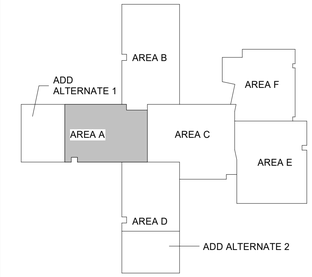
ROOF LOADS:

DEAD LOAD	20 psf
SNOW LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
3. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/SS.12 AND 2/SS.12. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/SS.12.
4. SEE DETAIL 10/SS.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
5. SEE DETAIL 4/SS.12 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST PANEL POINT.
6. SEE DETAIL 5/SS.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/SS.12 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
8. COORDINATE LOCATION OF MECHANICAL DUCTWORK WITH MECHANICAL DRAWINGS. CONFIGURE TRUSS WEBBING TO ALLOW FOR DUCTWORK AS REQUIRED.
9. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT WALLS TO TRANSFER 1250lbs (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING ENDS.
10. OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
11. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
12. SEE DETAIL 1/SS.11 FOR FRAMING AROUND ALL OPENINGS IN TRUSS ROOF FRAMING
13. SEE DETAIL 5/SS.11 FOR TYPICAL BUILT-UP BEAM DETAIL.
14. SEE DETAIL 2/SS.11 FOR TYPICAL TOP PLATE SPLICE DETAIL.
15. SEE DETAIL 3/SS.11 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
16. SEE DETAIL 3/SS.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
17. SEE DETAIL 4/SS.02 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
18. SEE DETAIL 5/SS.02 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
19. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
20. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:
    - 0.6DL = 12psf
    - 0.6WL = 21psf (UPLIFT)
    - 9psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.

Key Plan



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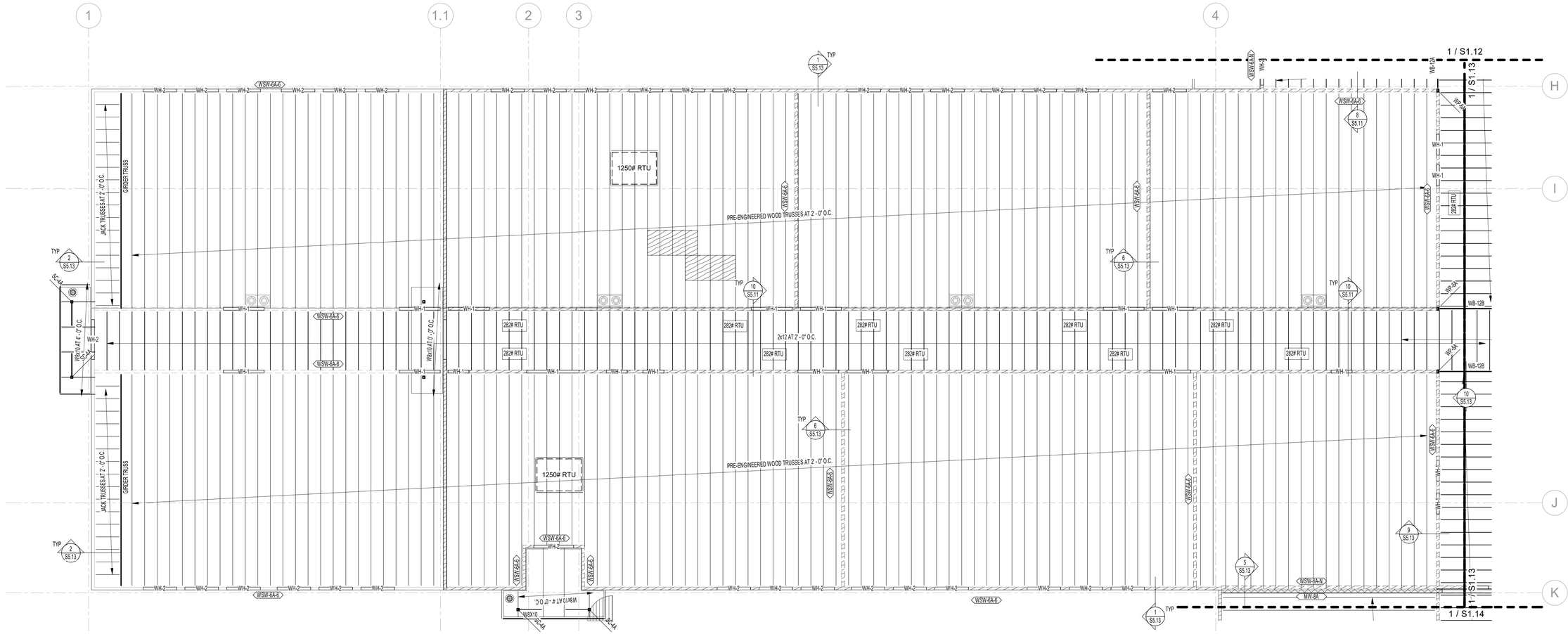
S1.11
ROOF FRAMING PLAN – AREA A



1 ROOF FRAMING PLAN - ADD ALTERNATE 1

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-8C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

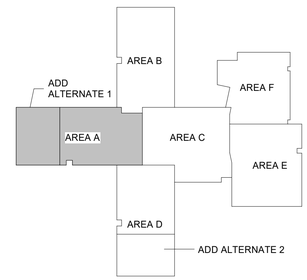
ROOF LOADS:

DEAD LOAD	20 psf
SNOW LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
3. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/SS.12 AND 2/SS.12 FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/SS.12
4. SEE DETAIL 10/SS.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
5. SEE DETAIL 4/SS.12 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST PANEL POINT.
6. SEE DETAIL 5/SS.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/SS.12 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
8. COORDINATE LOCATION OF MECHANICAL DUCTWORK WITH MECHANICAL DRAWINGS. CONFIGURE TRUSS WEBBING TO ALLOW FOR DUCTWORK AS REQUIRED.
9. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT WALLS TO TRANSFER 1250lbs (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING ENDS.
10. OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
11. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
12. SEE DETAIL 1/SS.11 FOR FRAMING AROUND ALL OPENINGS IN TRUSS ROOF FRAMING
13. SEE DETAIL 5/SS.11 FOR TYPICAL BUILT-UP BEAM DETAIL.
14. SEE DETAIL 2/SS.11 FOR TYPICAL TOP PLATE SPLICE DETAIL.
15. SEE DETAIL 3/SS.11 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
16. SEE DETAIL 3/SS.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
17. SEE DETAIL 4/SS.02 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
18. SEE DETAIL 5/SS.02 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
19. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
20. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:
    - 0.6DL = 12psf
    - 0.6WL = 21psf (UPLIFT)
    - 9psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.

Key Plan



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PROFESSIONAL ENGINEER LICENSED 16702 STATE OF IDAHO ANDREW S. MORGAN

02/24/2022

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Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

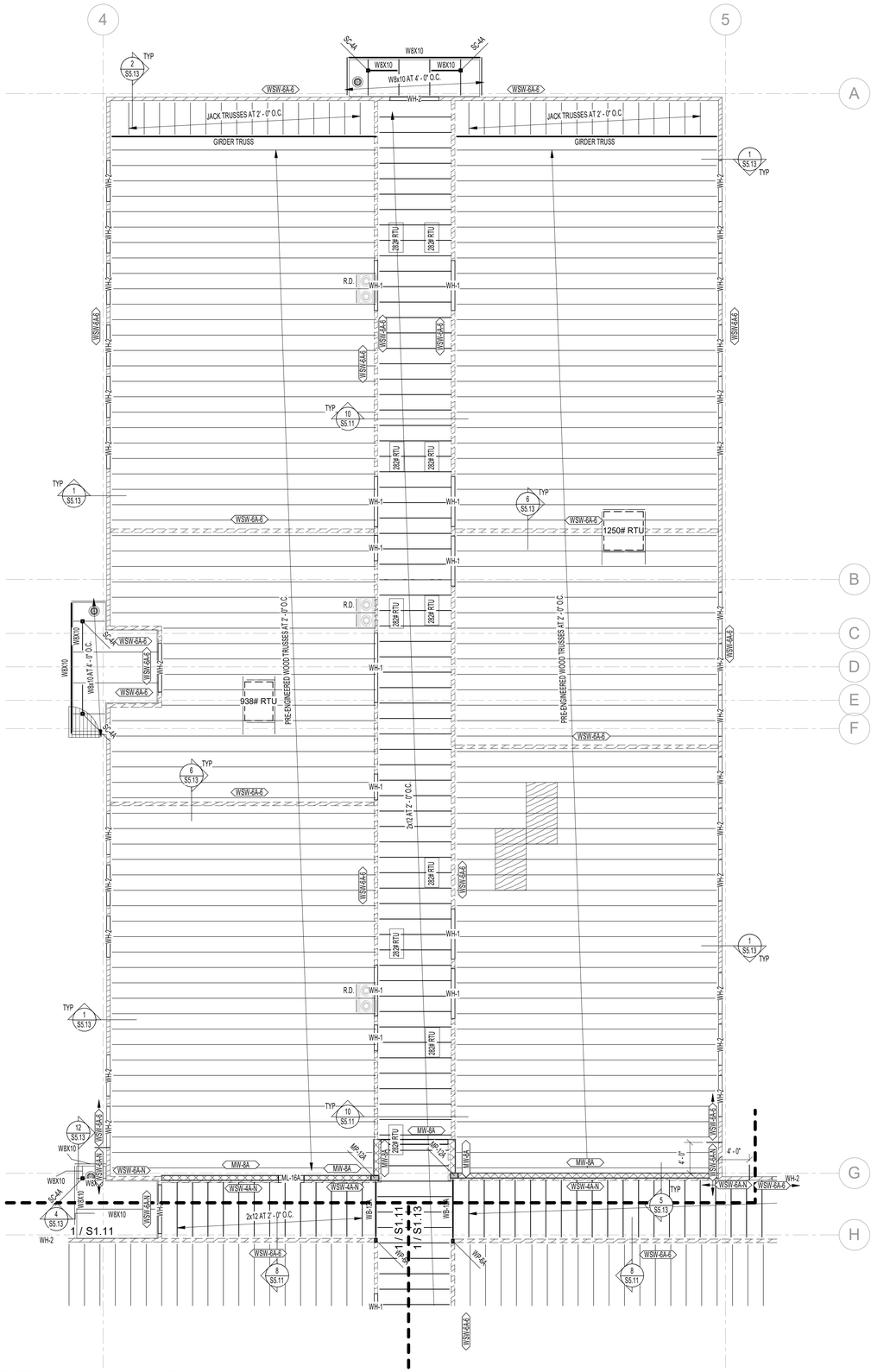
DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

S1.11A

ADD ALTERNATE 1



1 ROOF FRAMING PLAN - AREA B

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

ROOF LOADS:
DEAD LOAD 20 psf
SNOW LOAD 30 psf
TOTAL LOAD 50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
3. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/S5.12 AND 2/S5.12 FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES. SEE DETAIL 3/S5.12.
4. SEE DETAIL 10/S5.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
5. SEE DETAIL 4/S5.12 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST PANEL POINT.
6. SEE DETAIL 5/S5.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/S5.12 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
8. COORDINATE LOCATION OF MECHANICAL DUCTWORK WITH MECHANICAL DRAWINGS. CONFIGURE TRUSS WEBBING TO ALLOW FOR DUCTWORK AS REQUIRED.
9. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT WALLS TO TRANSFER 1250lbs (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING ENDS.
10. OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
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18. SEE DETAIL 5/S5.02 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
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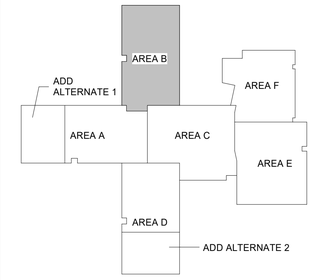
    - 0.6WL = 21psf (UPLIFT)
    - 9psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.

Key Plan



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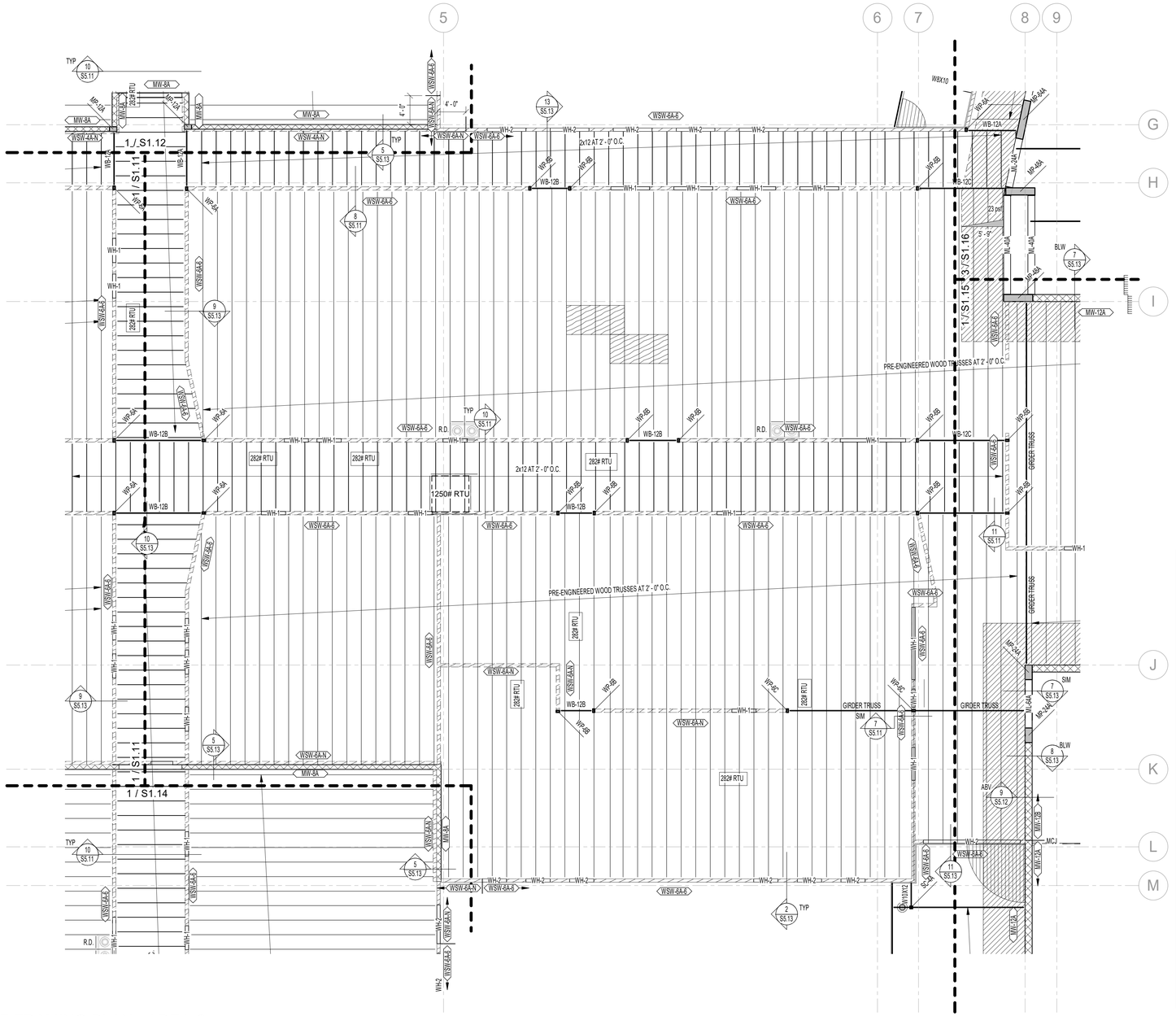
CHECKED BY: DM

Bid Set

DRAWING NO.:

S1.12
ROOF FRAMING PLAN – AREA B



1 ROOF FRAMING PLAN - AREA C

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

ROOF LOADS:	
DEAD LOAD	20 psf
SNOW LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
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4. SEE DETAIL 10/S5.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
5. SEE DETAIL 4/S5.12 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST PANEL POINT.
6. SEE DETAIL 5/S5.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
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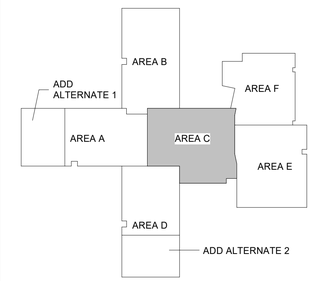
    - 0.6DL = 12psf
    - 0.6WL = 21psf (UPLIFT)
    - 9psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.

Key Plan



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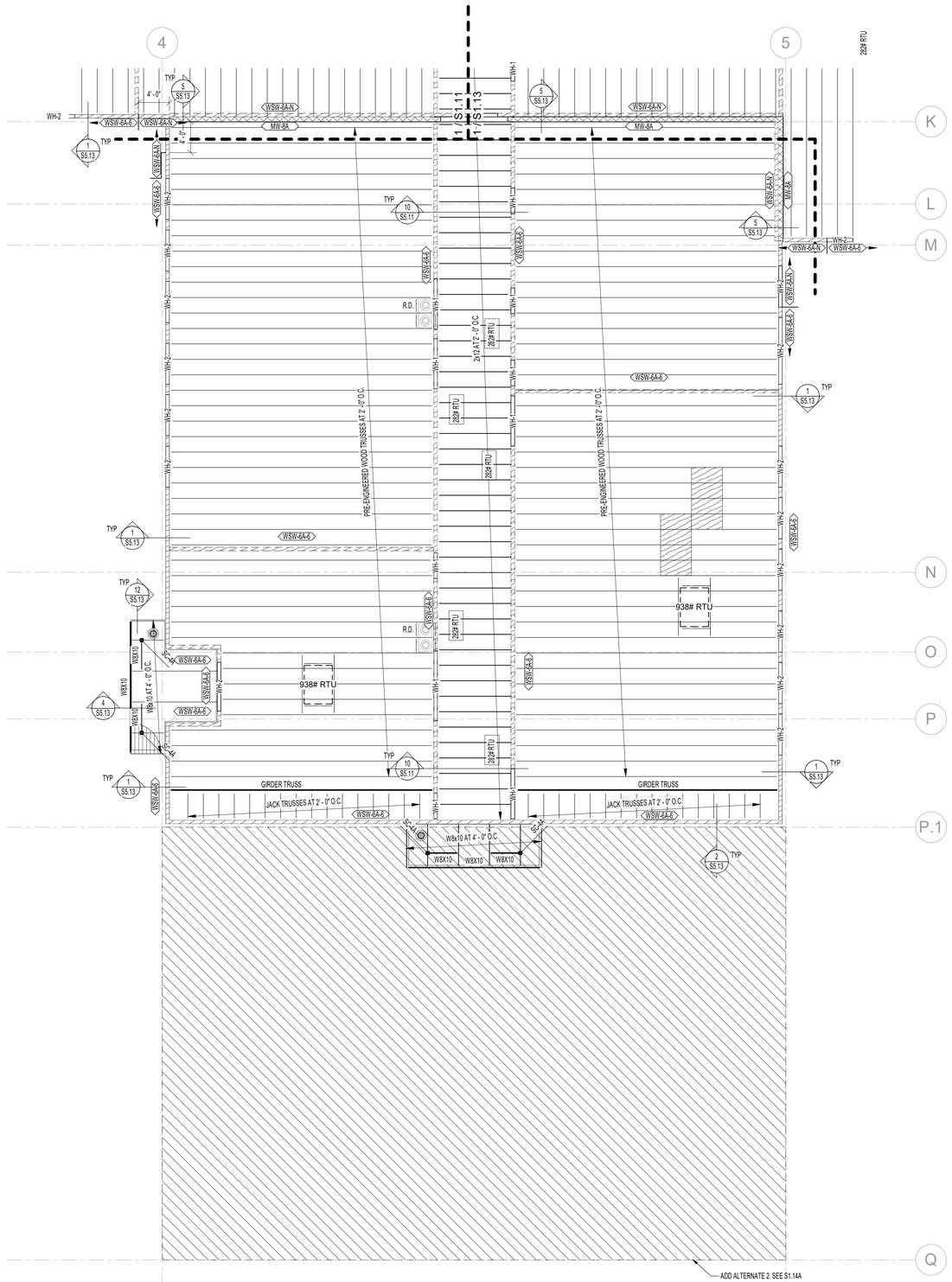
CHECKED BY: DM

Bid Set

DRAWING NO.:

S1.13
ROOF FRAMING PLAN – AREA C



WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

ROOF LOADS:

DEAD LOAD	20 psf
SNOW LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
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4. SEE DETAIL 10/SS.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
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6. SEE DETAIL 5/SS.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
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      9psf NET UPLIFT (ASD)
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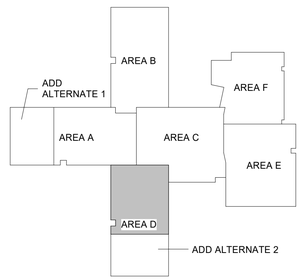
Key Plan



1 ROOF FRAMING PLAN - AREA D

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

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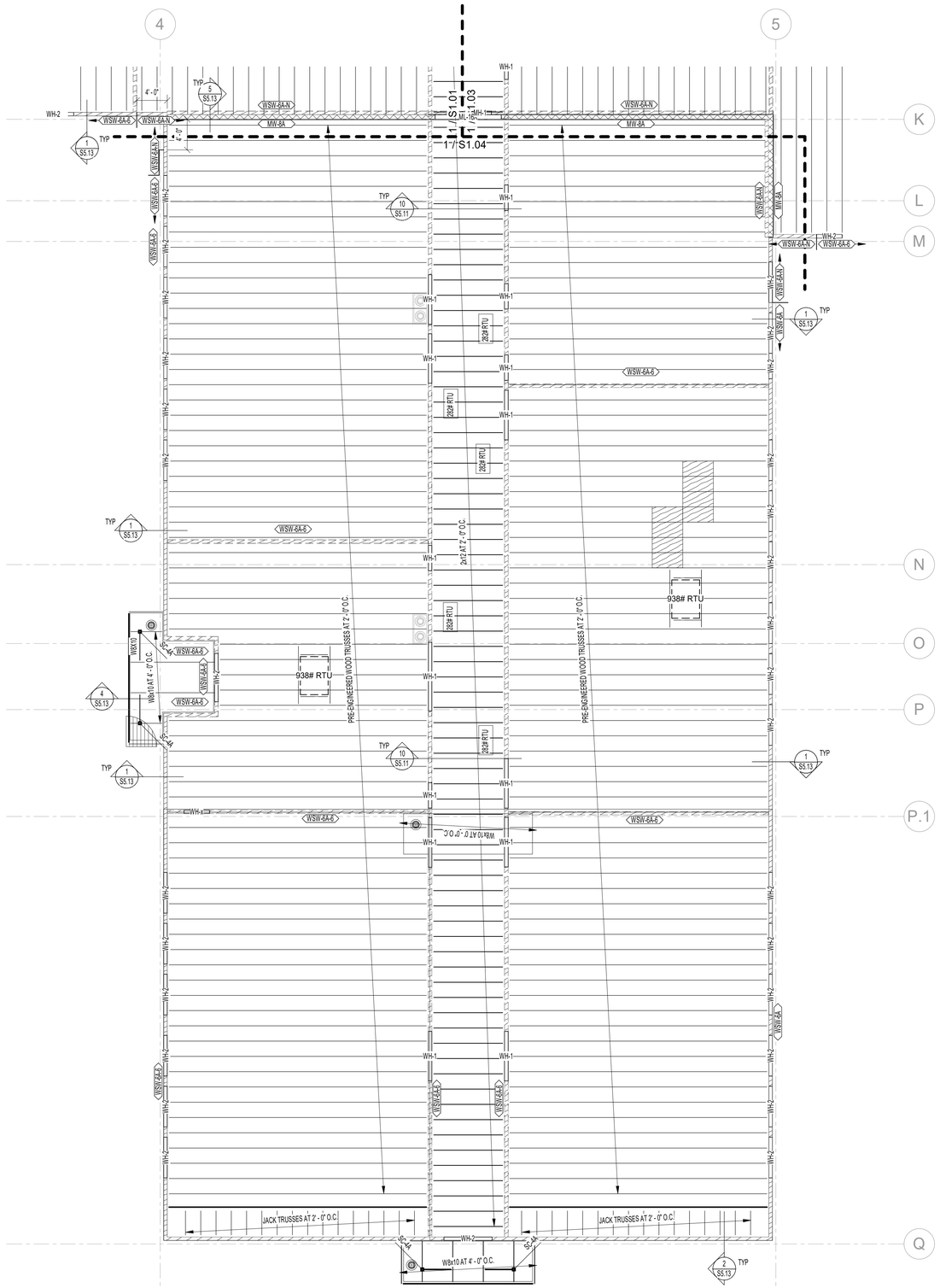
CHECKED BY: DM

Bid Set

DRAWING NO.:

S1.14
ROOF FRAMING PLAN – AREA D



2 ROOF FRAMING PLAN - ADD ALTERNATE 2

1/8" = 1'-0"

WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

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SNOW LOAD	30 psf
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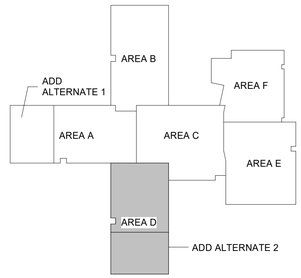

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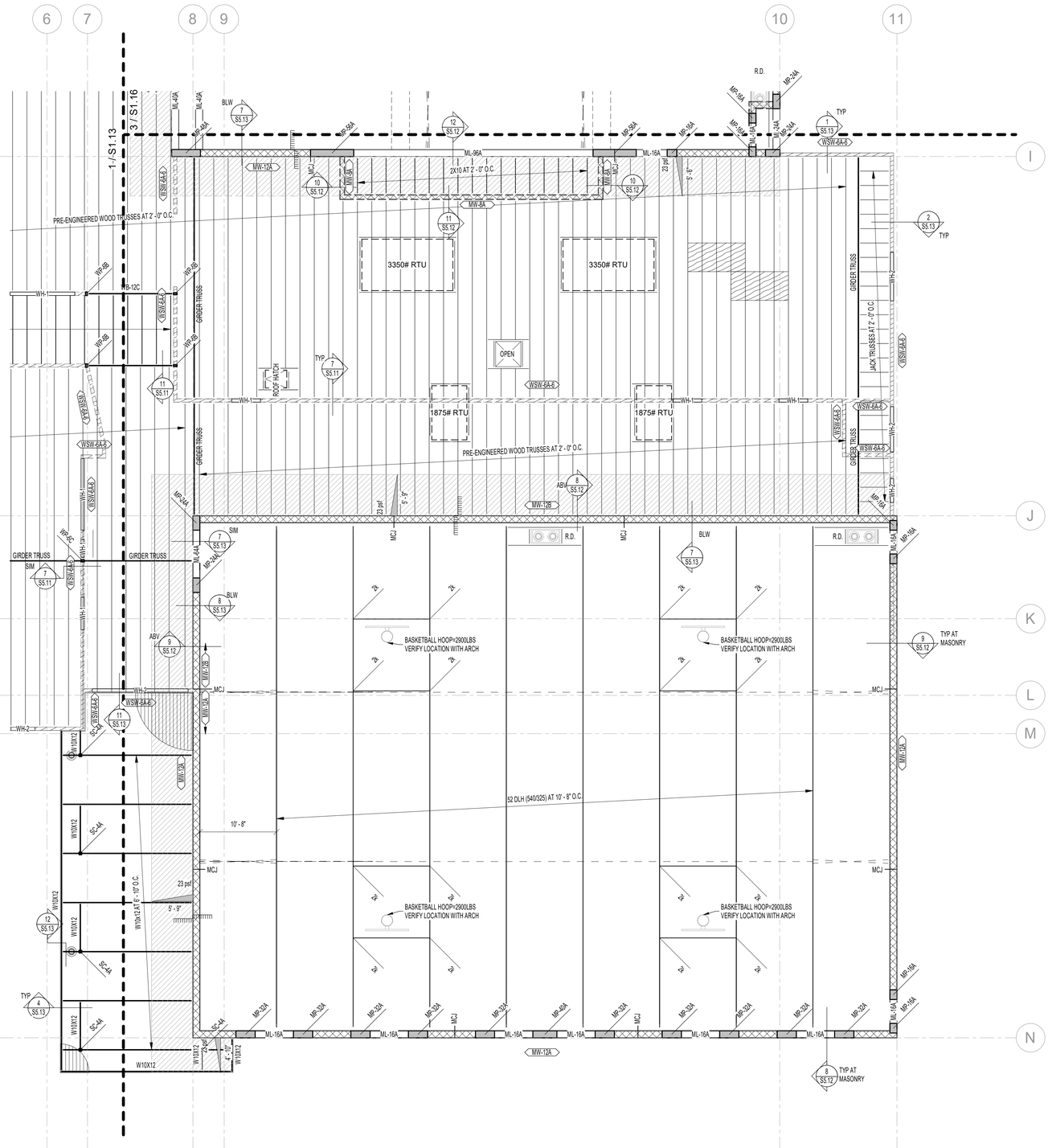
DRAWING NO.:

S1.14A
ADD ALTERNATE 2



1 ROOF FRAMING PLAN - AREA E

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

NORTH

WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

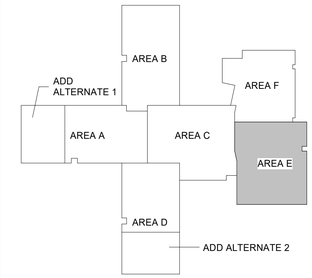
ROOF FRAMING DESIGN LOADS

ROOF LOADS:	
DEAD LOAD	20 psf
SNOW LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ALL JOISTS SHALL HAVE 9" DEEP BEARING ENDS (UNO).
3. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/S5.12 AND 2/S5.12 FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/S5.12.
4. SEE DETAIL 10/S5.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
5. SEE DETAIL 4/S5.12 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST PANEL POINT.
6. SEE DETAIL 5/S5.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/S5.12 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
8. COORDINATE LOCATION OF MECHANICAL DUCTWORK WITH MECHANICAL DRAWINGS. CONFIGURE TRUSS WEBBING TO ALLOW FOR DUCTWORK AS REQUIRED.
9. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT WALLS TO TRANSFER 1250lbs (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING ENDS.
10. OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
11. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY. ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER SJI REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
12. SEE DETAIL 1/S5.11 FOR FRAMING AROUND ALL OPENINGS IN TRUSS ROOF FRAMING
13. SEE DETAIL 5/S5.11 FOR TYPICAL BUILT-UP BEAM DETAIL.
14. SEE DETAIL 2/S5.11 FOR TYPICAL TOP PLATE SPLICE DETAIL.
15. SEE DETAIL 3/S5.11 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
16. SEE DETAIL 3/S5.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
17. SEE DETAIL 4/S5.02 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
18. SEE DETAIL 5/S5.02 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
19. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
20. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:
    - 0.6DL = 12psf
    - 0.6WL = 21psf (UPLIFT)
    - 9psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.

Key Plan



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02/24/2022

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Meridian, Idaho 83642
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#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

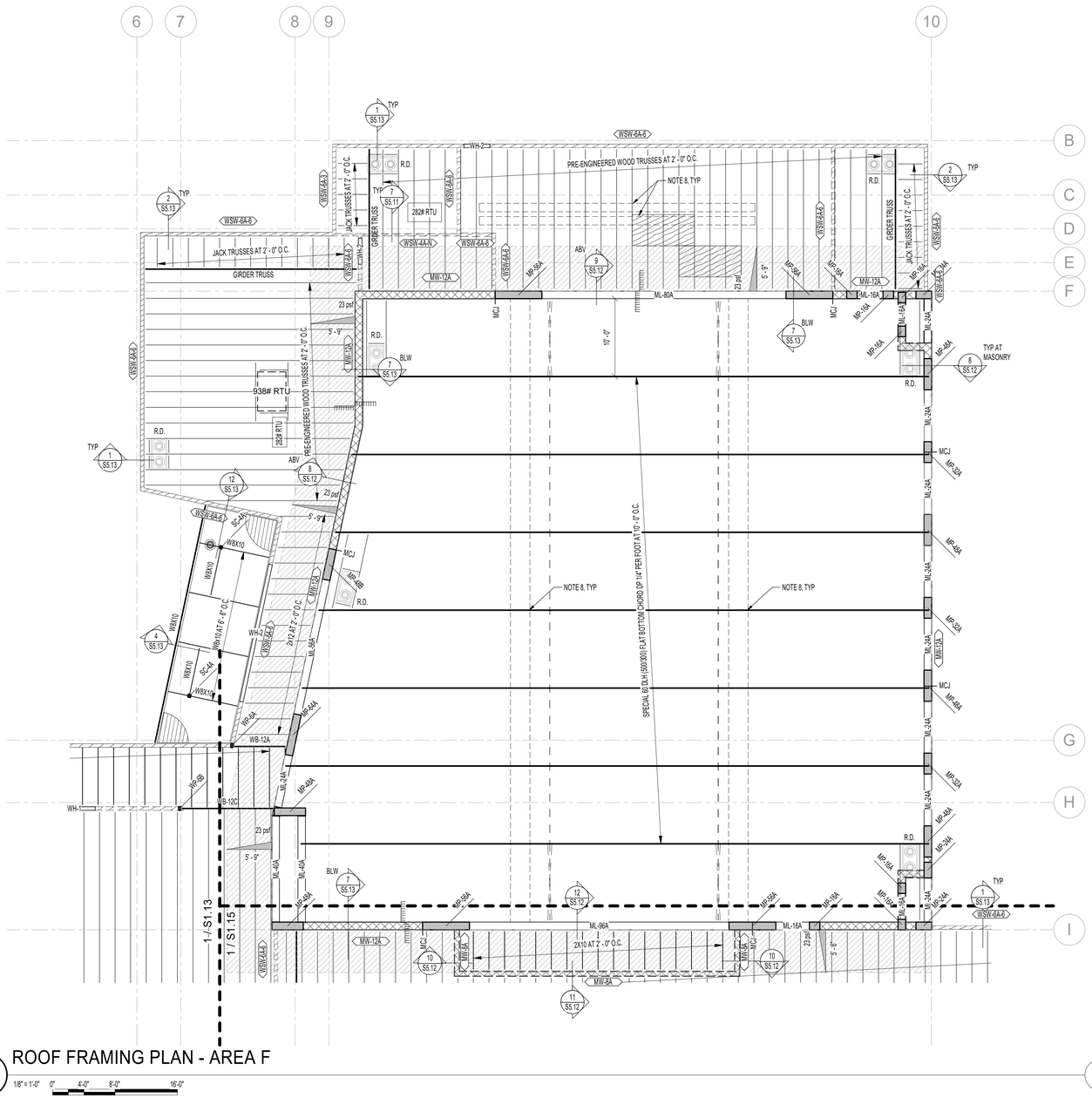
DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

S1.15
ROOF FRAMING PLAN – AREA E



3 ROOF FRAMING PLAN - AREA F

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

WOOD BEAM SCHEDULE (WB-x)

MARK	DESIGNATION	CONNECTION
WB-12A	(2) 2x12	
WB-12B	(3) 2x12	
WB-12C	(3) 1.3/4"x11.1/4" LVL	

WOOD POST SCHEDULE (WP-x)

MARK	DESIGNATION	CONNECTION
WP-6A	(2) 2x6	
WP-6B	(3) 2x6	
WP-6C	6x6 DFL NO. 2	

ROOF FRAMING DESIGN LOADS

ROOF LOADS:	
DEAD LOAD	20 psf
SNOW LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

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3. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/SS.12 AND 2/SS.12 FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES. SEE DETAIL 3/SS.12.
4. SEE DETAIL 10/SS.12 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
5. SEE DETAIL 4/SS.12 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST PANEL POINT.
6. SEE DETAIL 5/SS.12 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/SS.12 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
8. COORDINATE LOCATION OF MECHANICAL DUCTWORK WITH MECHANICAL DRAWINGS. CONFIGURE TRUSS WEBBING TO ALLOW FOR DUCTWORK AS REQUIRED.
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12. SEE DETAIL 1/SS.11 FOR FRAMING AROUND ALL OPENINGS IN TRUSS ROOF FRAMING
13. SEE DETAIL 5/SS.11 FOR TYPICAL BUILT-UP BEAM DETAIL.
14. SEE DETAIL 2/SS.11 FOR TYPICAL TOP PLATE SPLICE DETAIL.
15. SEE DETAIL 3/SS.11 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
16. SEE DETAIL 3/SS.02 FOR CONDITION AT RECESSES IN MASONRY WALLS.
17. SEE DETAIL 4/SS.02 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
18. SEE DETAIL 5/SS.02 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
19. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
20. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:
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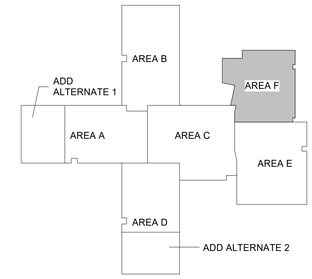
Key Plan



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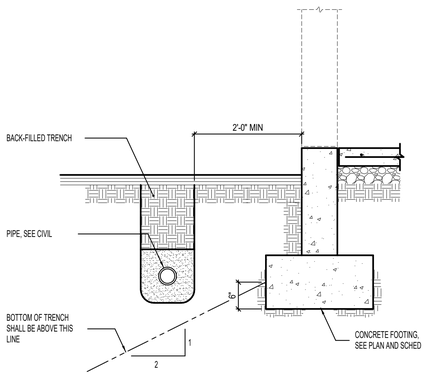
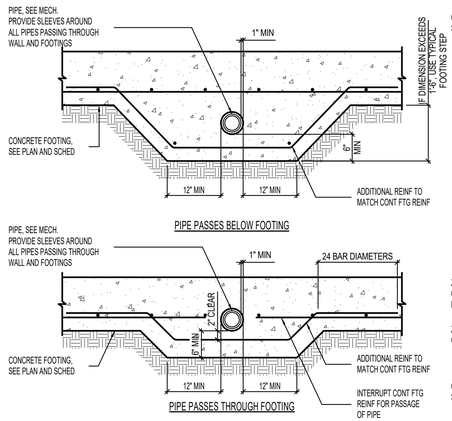
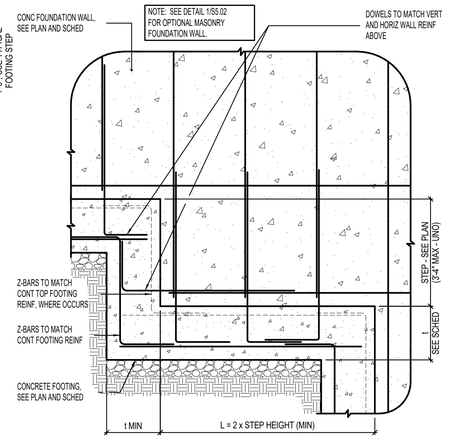
S1.16
ROOF FRAMING PLAN - AREA F



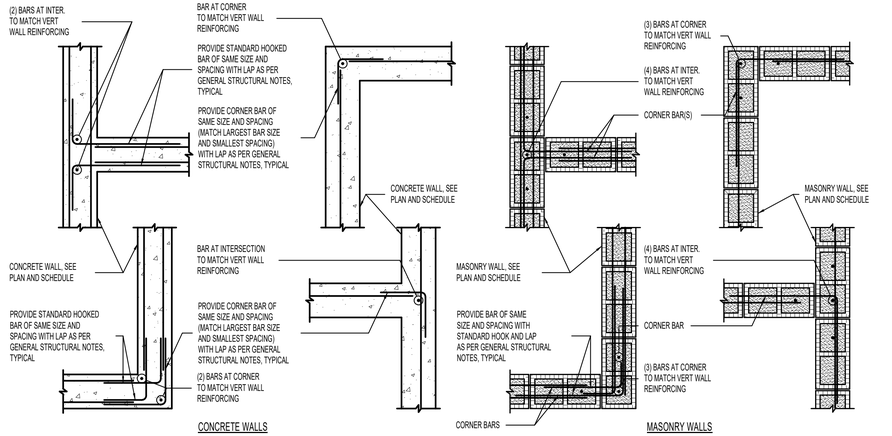
1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING — NO SCALE



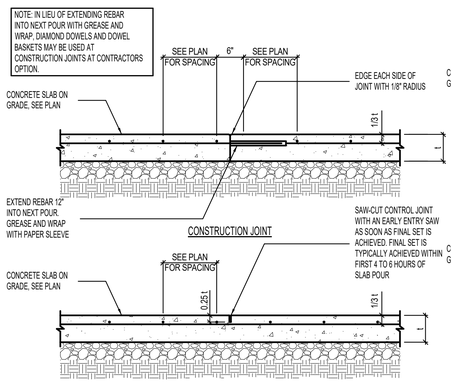
2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING — NO SCALE



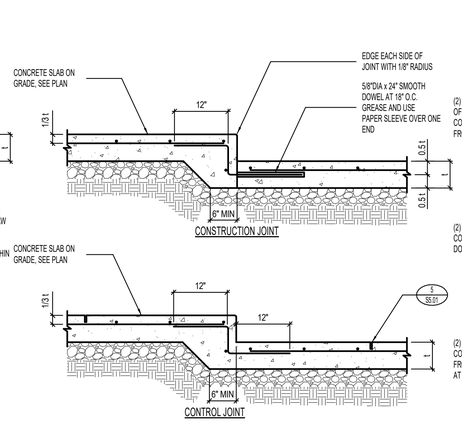
3 TYPICAL FOOTING STEP DETAIL — NO SCALE



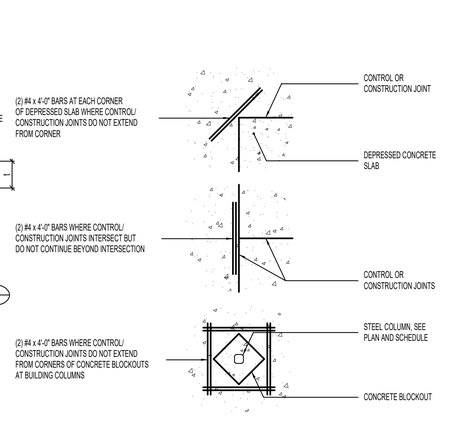
4 TYPICAL CORNER WALL REINFORCING [PLAN VIEW] — NO SCALE



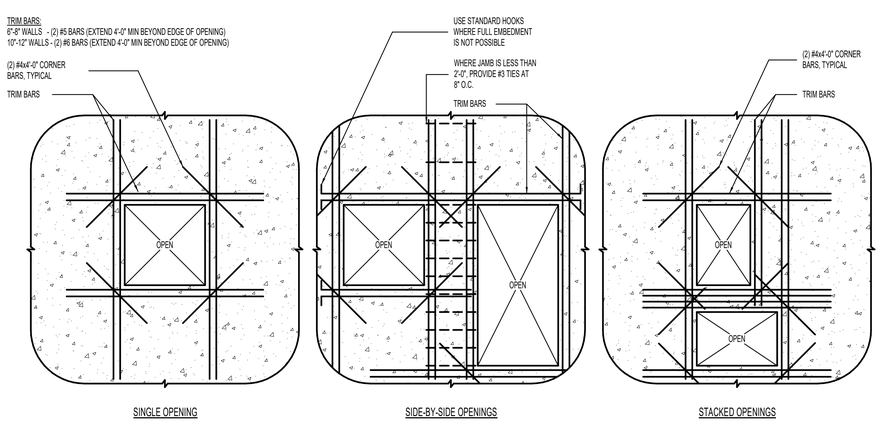
5 TYPICAL SLAB ON GRADE JOINT DETAILS — NO SCALE



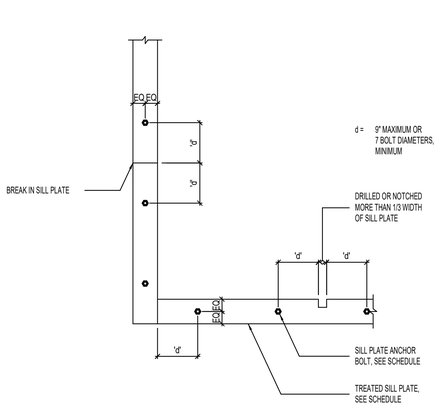
6 JOINT DETAILS AT SLAB DEPRESSIONS — NO SCALE



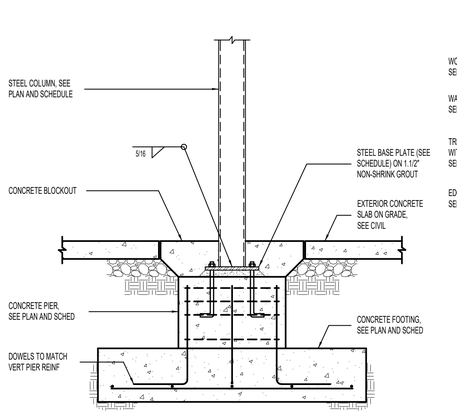
7 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW] — NO SCALE



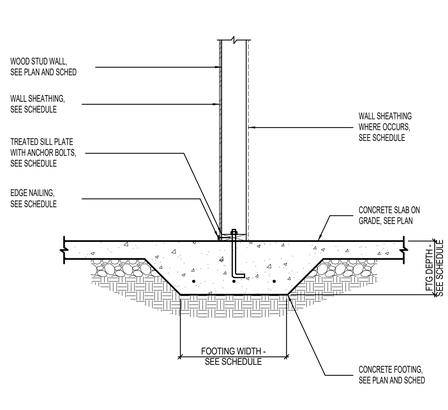
8 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER. — NO SCALE



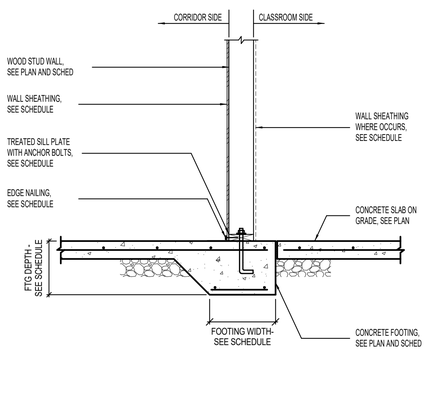
9 SILL PLATE BOLTING DETAIL [PLAN VIEW] — NO SCALE



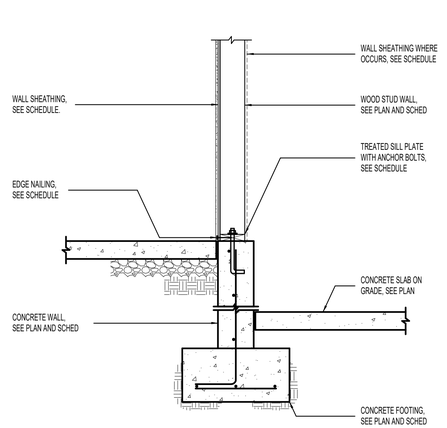
10 STEEL COLUMN BEARING AT CONCRETE PIER — NO SCALE



11 INTERIOR WOOD STUD WALL BEARING ON THICKENED SLAB FOOTING — NO SCALE



12 INTERIOR WOOD STUD WALL BEARING ON THICKENED SLAB FOOTING — NO SCALE



13 WOOD STUD WALL AT CONCRETE WALL — NO SCALE

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LICENSED
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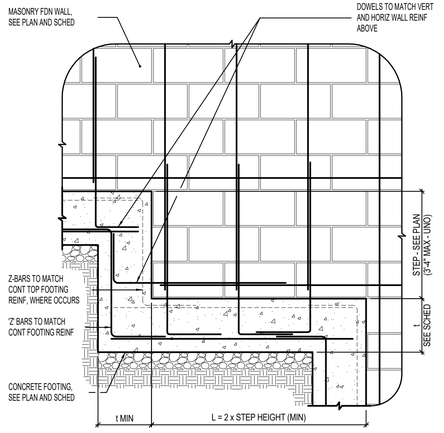
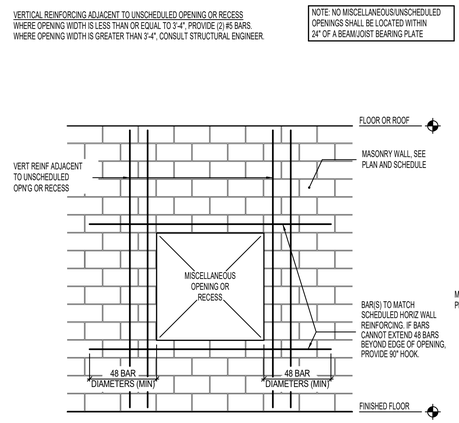
DETAILS



1 TYPICAL FOOTING STEP AT MASONRY FOUNDATION WALL [OPTIONAL]

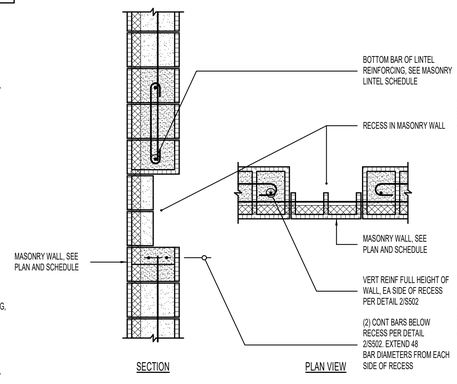
NO SCALE



2 REINFORCING AT UNSCHEDULED MISCELLANEOUS OPENINGS OR RECESSES IN MASONRY WALLS

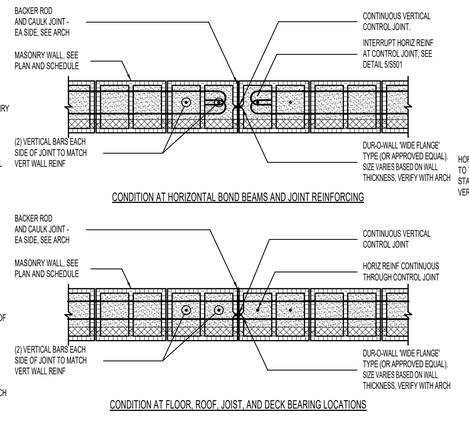
NO SCALE

NOTE: NO MISCELLANEOUS/UNSCHEDULED OPENINGS SHALL BE LOCATED WITHIN 24" OF A BEAM/JOIST BEARING PLATE



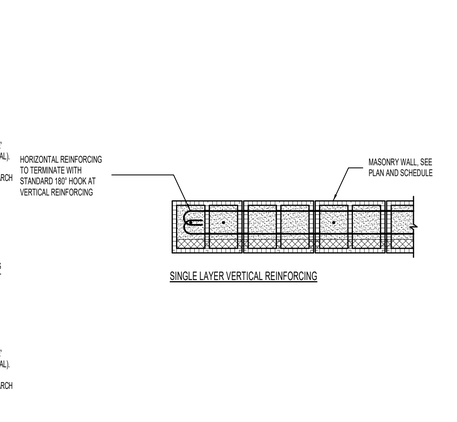
3 TYPICAL REINFORCING AT RECESS IN 12" MASONRY WALLS

NO SCALE



4 MASONRY CONTROL JOINT DETAIL AT 12" MASONRY WALLS

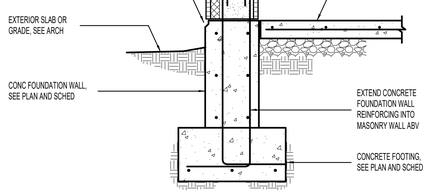
NO SCALE



5 TERMINATION OF HORIZONTAL REINFORCING IN 12" MASONRY WALL [PLAN VIEW]

NO SCALE

NOTE: IF SCHEDULE DOESN'T REQUIRE WALL TO BE GROUT SOLID. GROUT BOTTOM 4'-0" SOLID AND ADD BOND BEAM IN THIRD COURSE



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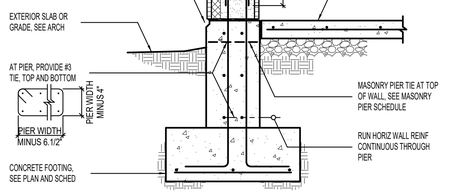
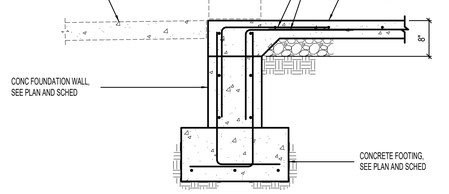
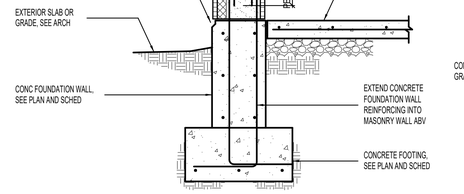
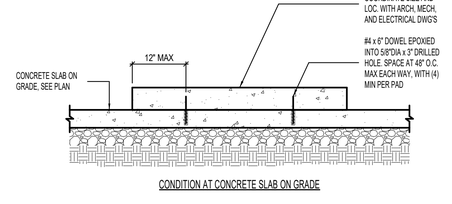






6 FOUNDATION WALL DETAIL AT 12" MASONRY WALL

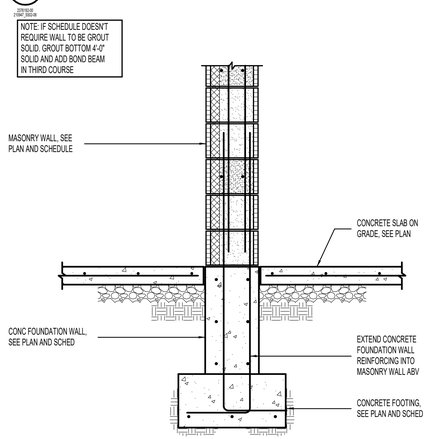
NO SCALE



7 HOUSEKEEPING PAD DETAIL

NO SCALE

NOTE: IF SCHEDULE DOESN'T REQUIRE WALL TO BE GROUT SOLID. GROUT BOTTOM 4'-0" SOLID AND ADD BOND BEAM IN THIRD COURSE



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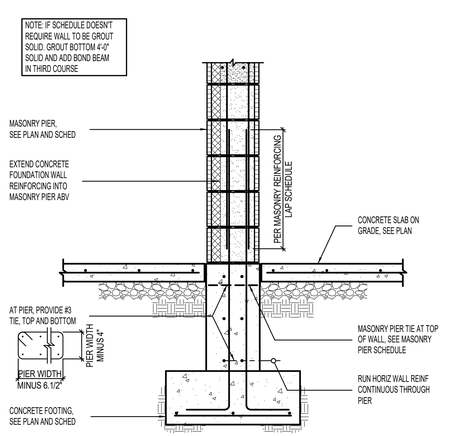
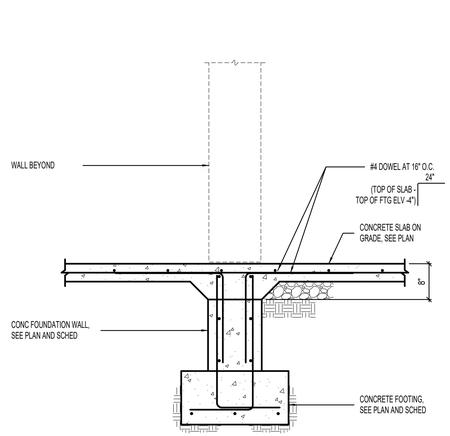
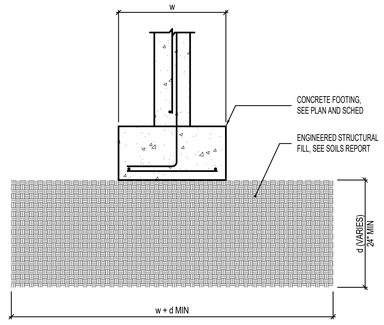




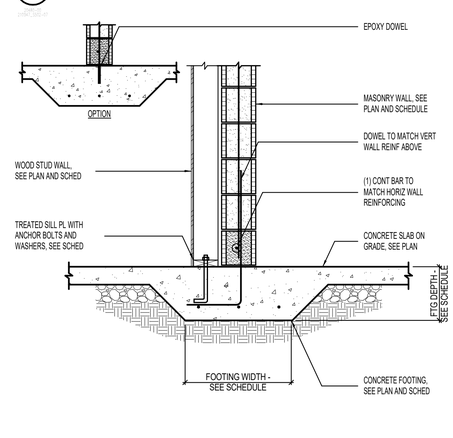
8 TYPICAL INTERIOR MASONRY WALL

NO SCALE



9 ENGINEERED STRUCTURAL FILL DETAIL

NO SCALE



10 THICKENED SLAB FOOTING AT MASONRY WALL

NO SCALE

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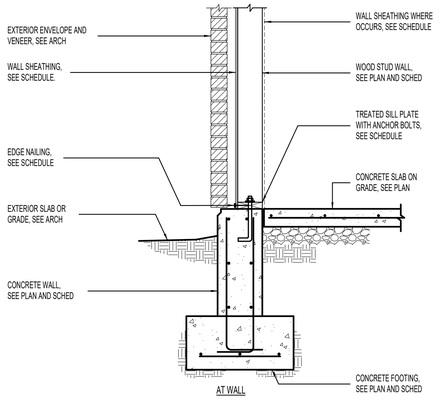
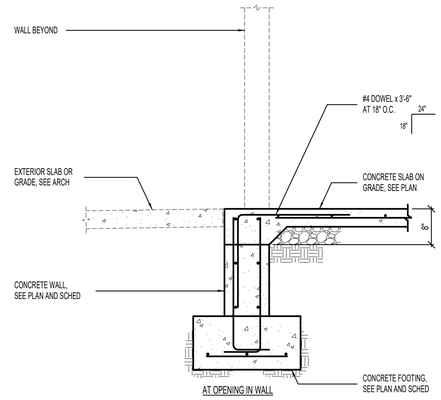
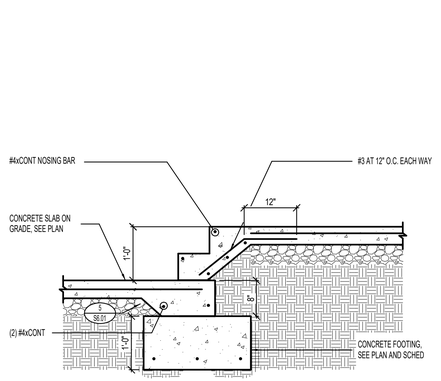
DETAILS





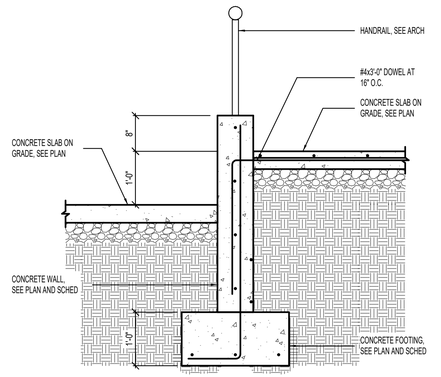
1 TYPICAL EXTERIOR WOOD STUD WALL BEARING ON DOUBLE WYTHE REINFORCED CONCRETE FOUNDATION WALL

NO SCALE



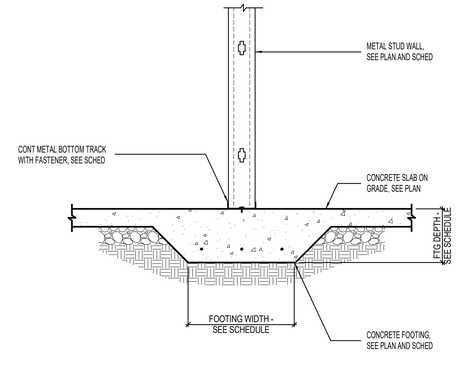
2 SLAB STEP DETAIL

NO SCALE



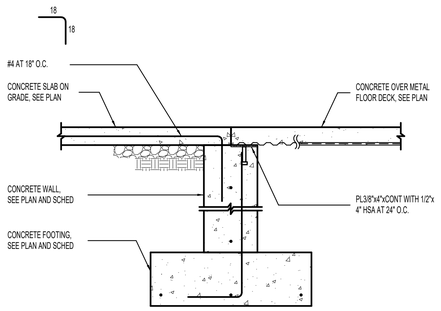
3 SLAB STEP DETAIL

NO SCALE



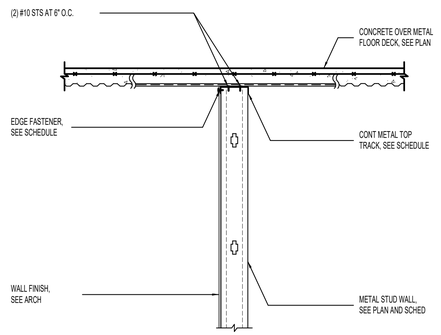
4 THICKENED SLAB FOOTING AT INTERIOR METAL STUD WALL

NO SCALE



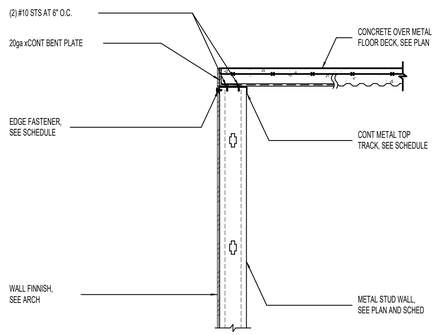
5 SLAB OVER CONCRETE WALL DETAIL

NO SCALE



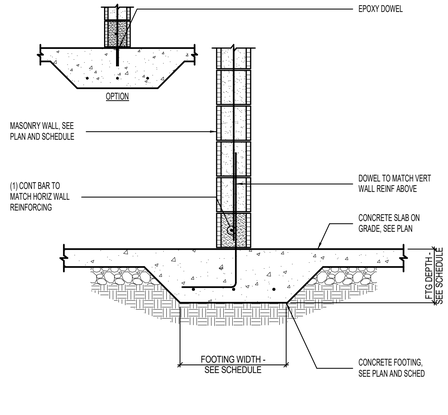
6 FLOOR DECK BEARING AT INTERIOR METAL STUD WALL

NO SCALE



7 FLOOR DECK BEARING AT INTERIOR METAL STUD WALL

NO SCALE



8 THICKENED SLAB FOOTING AT MASONRY WALL

NO SCALE

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02/24/2022

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#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

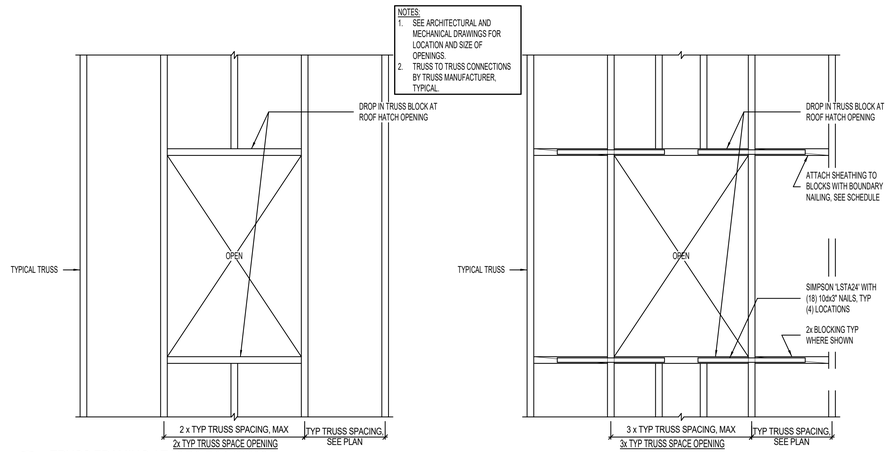
DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

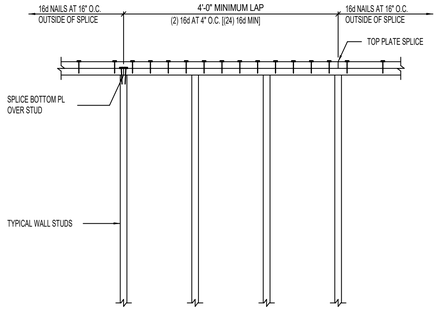
DRAWING NO.:

S5.03
DETAILS



1 TRUSS FRAMING AT ROOF OPENINGS [PLAN VIEW]

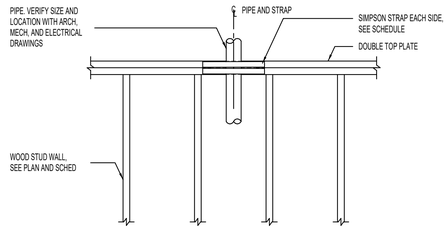
NO SCALE



2 TYPICAL TOP PLATE SPLICE DETAIL

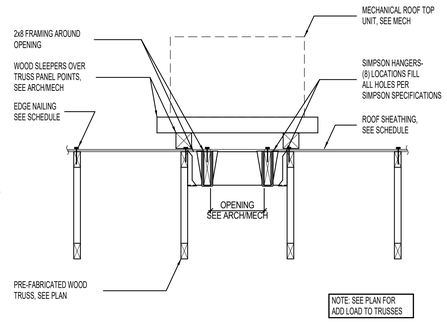
NO SCALE

TOP PLATE SPLICE	
HOLE SIZE	STRAPS
LESS THAN OR EQUAL TO 1/3 STUD WIDTH	NONE REQUIRED
GREATER THAN 1/3 AND LESS THAN OR EQUAL TO 2/3 STUD WIDTH	(2) SIMPSON CTS218 WITH (24) 10dx1.1/2" NAILS OR EQUIVALENT
GREATER THAN 2/3 STUD WIDTH	(4) SIMPSON CTS218 WITH (24) 10dX1.1/2" NAILS ((2) CTS218 EACH SIDE OF WALL) OR EQUIVALENT



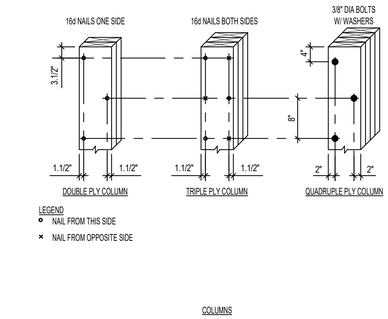
3 TOP PLATE SPLICE SCHEDULE AT PIPE

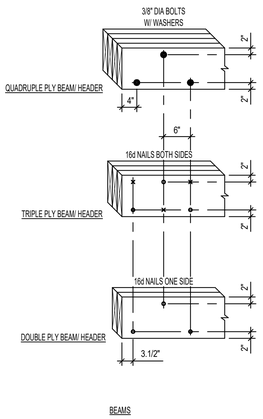
NO SCALE



4 TYPICAL MECHANICAL UNIT SUPPORT DETAIL

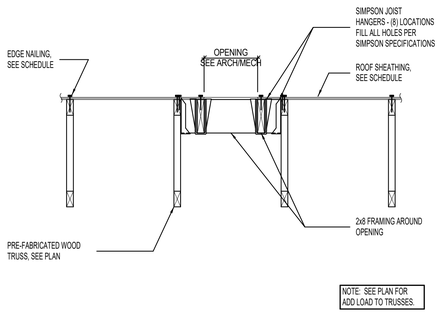
NO SCALE





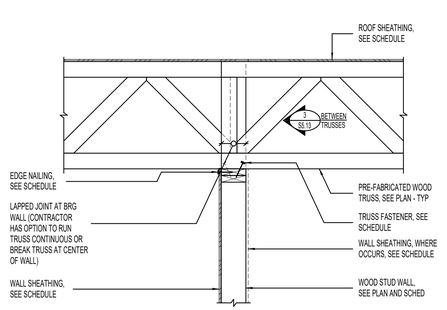
5 TYPICAL BUILT-UP WOOD MEMBER DETAIL

NO SCALE



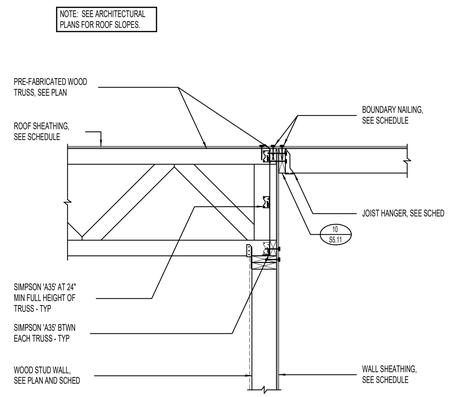
6 TYPICAL ROOF OPENING DETAIL

NO SCALE



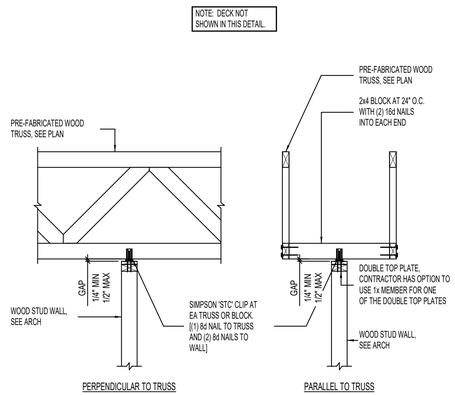
7 WOOD TRUSSES BEARING ON INTERIOR WOOD STUD WALL

NO SCALE



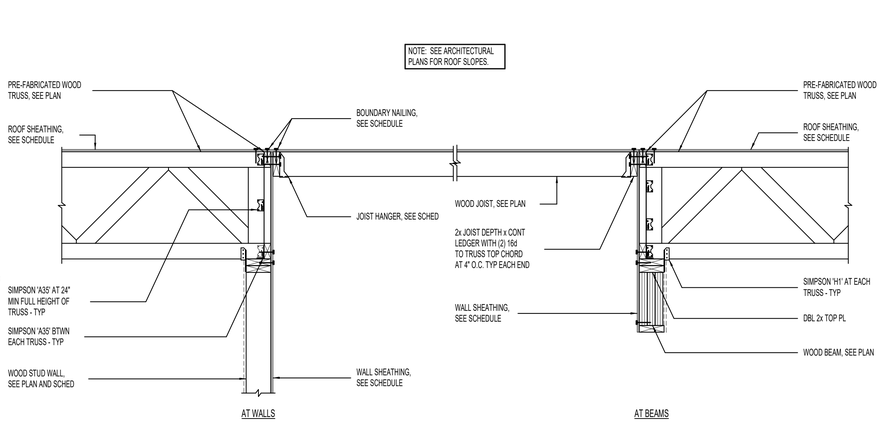
8 TYPICAL ROOF TRUSS BEARING AT SHEARWALL

NO SCALE



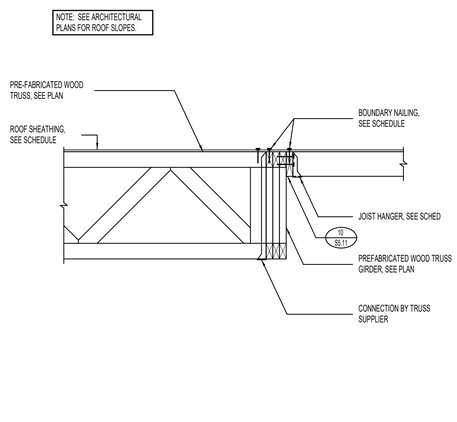
9 TYPICAL INTERIOR NON-BEARING WALL BRACING

NO SCALE



10 TYPICAL ROOF TRUSS BEARING AT CORRIDOR

NO SCALE



11 ROOF TRUSS BEARING AND JOIST AT GIRDER

NO SCALE

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Revisions

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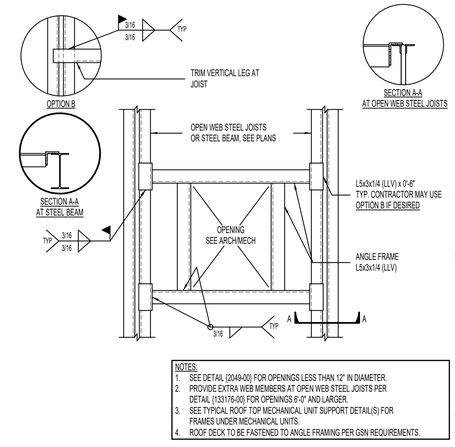
CHECKED BY: DM

Bid Set

DRAWING NO.:

S5.11

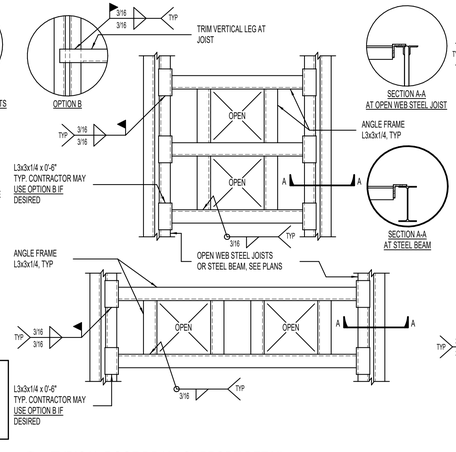
DETAILS



NOTES:
1. SEE DETAIL (2049-00) FOR OPENINGS LESS THAN 12" IN DIAMETER.
2. PROVIDE EXTRA WEB MEMBERS AT OPEN WEB STEEL JOISTS PER DETAIL (153176-00) FOR OPENINGS 6'-0" AND LARGER.
3. SEE TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL(S) FOR FRAMES UNDER MECHANICAL UNITS.
4. ROOF DECK TO BE FASTENED TO ANGLE FRAMING PER GSN REQUIREMENTS.

SECTION A-A AT OPEN WEB STEEL JOISTS

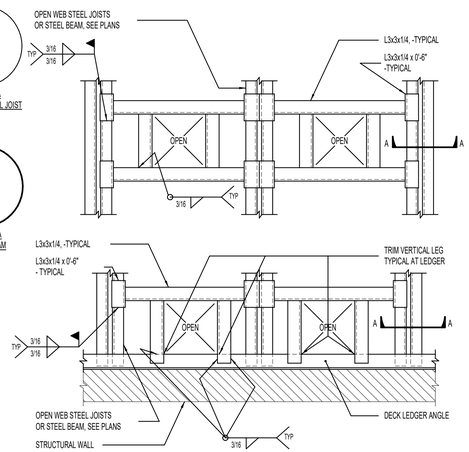
1 TYPICAL ROOF OPENING DETAIL [PLAN VIEW] — NO SCALE



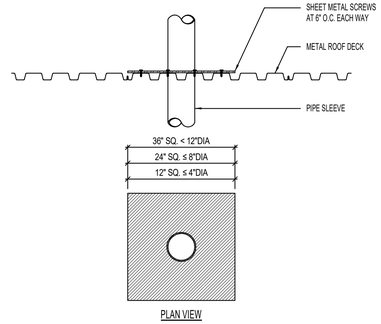
SECTION A-A AT OPEN WEB STEEL JOIST

SECTION A-A AT STEEL BEAM

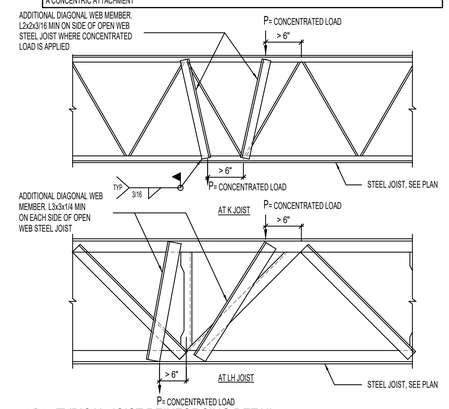
2 TYPICAL ROOF DRAIN SUPPORT DETAIL [PLAN VIEW] — NO SCALE



3 TYPICAL PIPE SLEEVE THROUGH ROOF DECK — NO SCALE



NOTE: WHERE LOADS OVER 100# ON OPEN WEB JOISTS ARE LOCATED MORE THAN 6" FROM THE PANEL WORK POINTS AT EITHER THE TOP OR BOTTOM CHORD, THE CONTRACTOR SHALL INSTALL ADDITIONAL DIAGONAL WEB MEMBERS AT THE LOCATION OF THE CONCENTRATED LOAD. CONNECTIONS FOR LOADS OVER 100LB MUST BE A CONCENTRIC ATTACHMENT



4 TYPICAL JOIST REINFORCING DETAIL FOR LOADS GREATER THAN 100 POUNDS — NO SCALE

NOTE: WHERE MECHANICAL UNIT WEIGHS LESS THAN 300 lbs. USE 'UNISTRUT' TO SUPPORT THE UNIT INSTEAD OF ⊥5x3x1/4.

5 TYPICAL HANGING MECHANICAL UNIT SUPPORT DETAIL — NO SCALE

NOTES:
1. WHERE THE MECHANICAL UNIT WEIGHS LESS THAN 700 lbs, THE L6x4 SUPPORT ANGLES MAY BE CHANGED TO L5x3x1/4.
2. SOLID BLOCK THE FLUTES OF THE STEEL DECK UNDER THE CURB OF THE MECHANICAL UNIT. THIS MAY BE DONE WITH A HSS1.12x1.1/2x3/16 x 0'-4" TACK WELDED TO THE STEEL DECK OR WITH SOLID BLOCKING CONNECTED TO THE STEEL DECK.
3. ROOF DECK TO BE WELDED TO ANGLE FRAMING.

6 TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL [PLAN VIEW] — NO SCALE

7 BEARING PLATE SCHEDULE FOR ROOF JOIST/BEAM BEARING AT MASONRY WALLS — NO SCALE

8 TYPICAL 'LH' JOIST BEARING AT 12" MASONRY WALL — NO SCALE

NOTE: PER 'SJI' REQUIREMENTS, BOTTOM HORIZONTAL BRIDGING SHALL NOT KICK UP AT AN ANGLE TOWARDS DECK BEARING, BUT SHALL BE INSTALLED HORIZONTAL AS SHOWN.

9 TYPICAL DECK BEARING WITH BRIDGING ATTACHMENT AT 12" MASONRY WALLS — NO SCALE

*NOTE: USE 5" MIN EMBEDMENT AND STANDARD ADHESIVE PER GSN. ALL CELLS USED FOR ANCHORS MUST BE SOLID GROUTED.

10 WOOD DECK BEARING AT MASONRY WALL — NO SCALE

*NOTE: USE 5" MIN EMBEDMENT AND STANDARD ADHESIVE PER GSN. ALL CELLS USED FOR ANCHORS MUST BE SOLID GROUTED.

11 WOOD TRUSS/JOIST BEARING AT MASONRY WALL — NO SCALE

*NOTE: USE 5" MIN EMBEDMENT AND STANDARD ADHESIVE PER GSN. ALL CELLS USED FOR ANCHORS MUST BE SOLID GROUTED.

12 WOOD JOIST BEARING AT MASONRY WALL — NO SCALE

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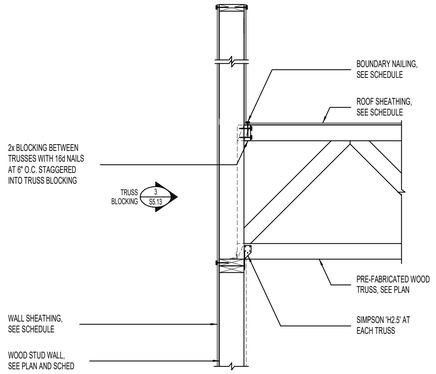
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

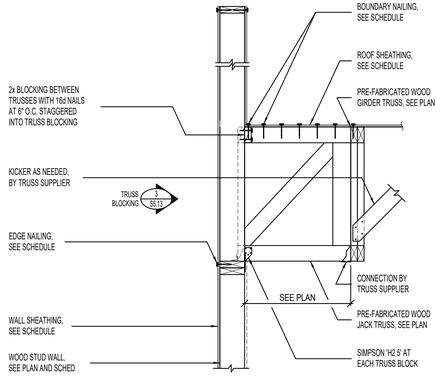
Bid Set

DRAWING NO.:
S5.12
DETAILS



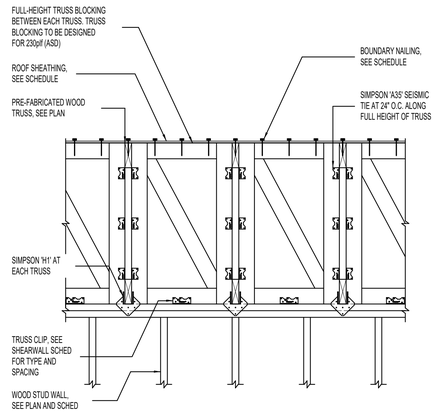
1 TYPICAL TRUSS BEARING ON WOOD STUD WALL [TRUSS PERPENDICULAR TO WALL]

NO SCALE



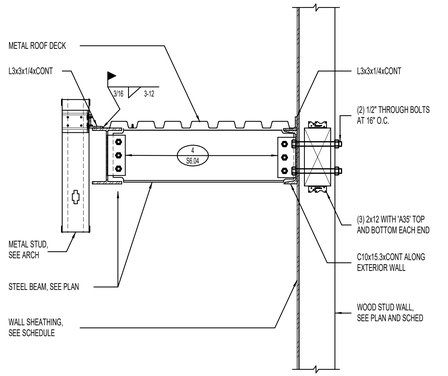
2 TYPICAL TRUSS BLOCKING BEARING ON WOOD STUD WALL [TRUSS PARALLEL TO WALL]

NO SCALE



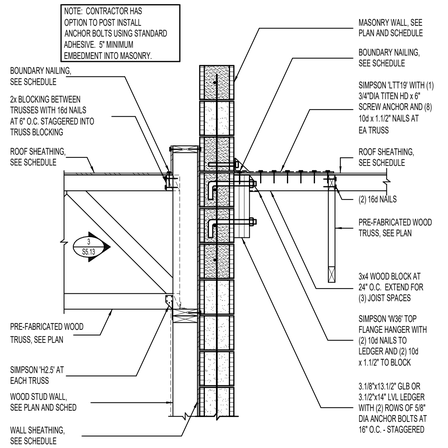
3 TYPICAL TRUSS BLOCKING ELEVATION

NO SCALE



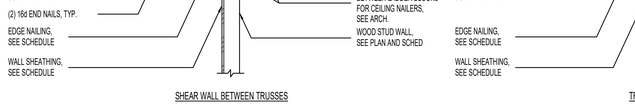
4 CANOPY DETAIL

NO SCALE



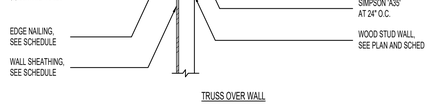
5 TYPICAL WOOD TRUSS PARALLEL TO MASONRY WALL

NO SCALE



SHEAR WALL BETWEEN TRUSSES

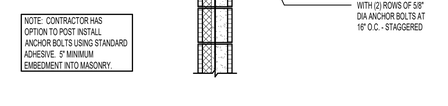
TRUSS <3" AWAY FROM WALL



TRUSS OVER WALL

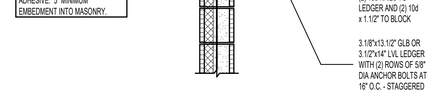
6 TYPICAL INTERIOR SHEARWALL PARALLEL TO ROOF TRUSS

NO SCALE



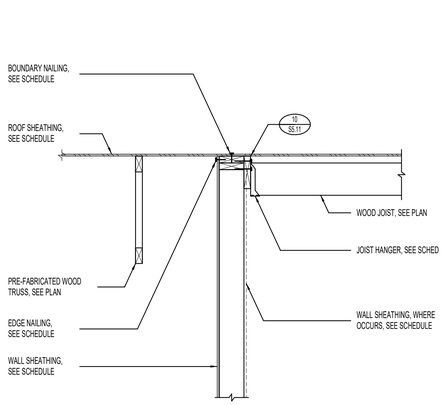
7 TYPICAL WOOD TRUSS BEARING ON MASONRY WALL

NO SCALE



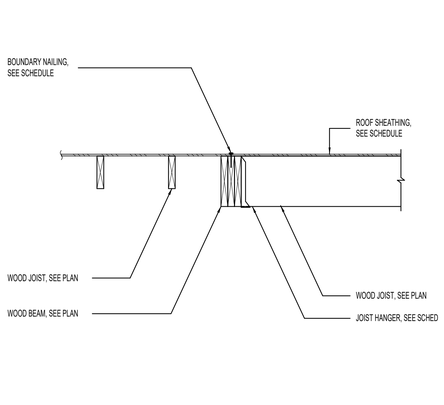
8 TYPICAL WOOD TRUSS PARALLEL TO MASONRY WALL

NO SCALE



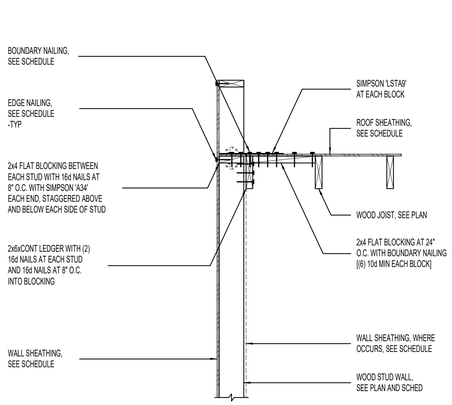
9 DECK BEARING ON INTERIOR WOOD STUD WALL

NO SCALE



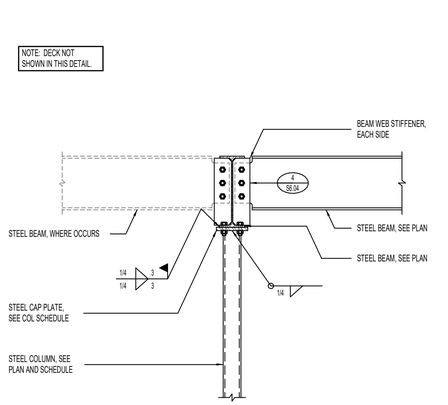
10 WOOD JOIST/DECK BEARING AT INTERIOR WOOD BEAM

NO SCALE



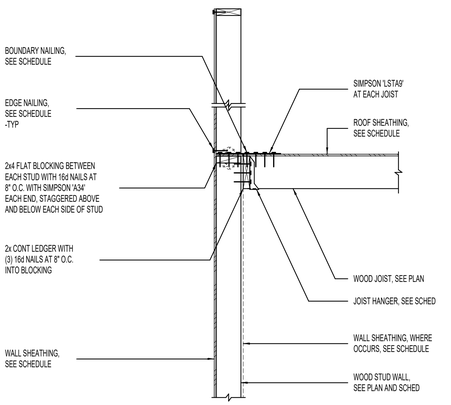
11 WOOD JOIST BEARING AT EXTERIOR WOOD STUD WALL WITH PARAPET

NO SCALE



12 BEAM BEARING AT STEEL COLUMN

NO SCALE



13 WOOD JOIST BEARING AT EXTERIOR WOOD STUD WALL WITH PARAPET

NO SCALE

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CHECKED BY: DM

Bid Set

DRAWING NO.:

S5.13
DETAILS

CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS2.0	2'-0"	CONT	12"	-	#4	1'-6"	48"	3	#4	CONT	EQ	THICKENED SLAB
												.
FC2.0	2'-0"	CONT	12"	-	#4	1'-6"	48"	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	-	#4	2'-0"	48"	3	#4	CONT	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. RUN CONTINUOUS FOOTING REINFORCEMENT THROUGH SPOT FOOTINGS.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
6. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

1 CONCRETE FOOTING SCHEDULE

NO SCALE

CONCRETE WALL SCHEDULE

MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-8A	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	.
CW-10A	10"	#4 AT 16" O.C.	#5 AT 15" O.C.	(1) #5	A	
CW-12A	12"	#4 AT 18" O.C. E.F.	#4 AT 16" O.C. E.F.	(2) #4	C	

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

WALLS NOT DESIGNATED IN PLAN

THICKNESS	REINFORCING	
	VERTICAL	HORIZONTAL
6"	#4 AT 18" O.C.	#4 AT 16" O.C.
8"	#4 AT 18" O.C.	#4 AT 12" O.C.
10"	#4 AT 16" O.C.	#5 AT 15" O.C.
12"	#4 AT 18" O.C. E.F.	#4 AT 16" O.C. E.F.

CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

WALL REINFORCING PLACEMENT TYPES:

TYPE 'A' TYPE 'B' TYPE 'C' TYPE 'D'

2 CONCRETE WALL SCHEDULE

NO SCALE

CONCRETE PIER SCHEDULE

MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-16A	16"x16"	(6) #4	(3) #3 AT 6" O.C.	A	.

CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES WITHIN TOP 5" OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

TYPE " "

3 CONCRETE PIER SCHEDULE

NO SCALE

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	f'c = 3000psi & f'c = 3500 psi				f'c = 4000psi & f'c = 4500 psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	15"	20"
#4	22"	29"	29"	37"	19"	25"	25"	32"	17"	22"	22"	29"	16"	20"	20"	27"
#5	28"	36"	36"	47"	24"	31"	31"	40"	22"	28"	28"	36"	20"	26"	26"	33"
#6	33"	43"	43"	56"	29"	37"	37"	48"	26"	33"	33"	43"	24"	31"	31"	40"
#7	48"	63"	63"	81"	42"	54"	54"	70"	37"	49"	49"	63"	34"	44"	44"	58"
#8	55"	72"	72"	93"	48"	62"	62"	80"	43"	56"	55"	72"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	70"	70"	91"	48"	63"	63"	81"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	102"	54"	70"	70"	91"	50"	64"	64"	83"
#11	78"	101"	101"	131"	67"	87"	87"	113"	60"	78"	78"	101"	55"	71"	71"	93"

TABULATED VALUES ARE FOR CASE 1 REINFORCEMENT, WHERE THE REQUIREMENTS OF TABLE BELOW ARE MET. WHERE THESE CONDITIONS ARE NOT MET, MULTIPLY THE LAP LENGTHS (f'_d) BY 1.5.

REQUIREMENT FOR CASE 1 LAP LENGTHS

d_b = BAR DIAMETER

BAR CLEAR SPACING	CLEAR COVER	STIRRUPS OR TIES
>=d_b	>=d_b	>=CODE FOR MINIMUM THROUGHOUT f'_d
>=2d_b	>=d_b	NO REQUIREMENT

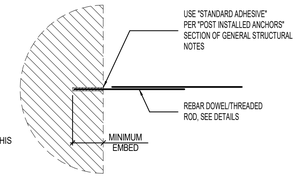
CONCRETE REINFORCING BAR LAP SPLICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
6. THE VALUES TABULATED IN SCHEDULE ARE FOR GRADE 60 REINFORCING BARS. FOR GRADE 75, MULTIPLY LAP LENGTHS BY 1.25 AND FOR GRADE 80, MULTIPLY BY 1.33.
7. THE VALUES TABULATED IN SCHEDULE ARE MINIMUM REQUIREMENTS. LONGER LENGTHS MAY BE USED FOR CONSTRUCTIBILITY.
8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. FOR EPOXY-COATED OR ZINC AND EPOXY DUAL-COATED BARS WITH CLEAR COVER < 3d $_b$ OR CLEAR SPACING <6d$_b$, MULTIPLY LAP LENGTHS BY 1.5. FOR ALL OTHER CASES MULTIPLY BY 1.2
10. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LAP LENGTHS BY 1.33 UNLESS THE AVERAGE SPLITTING TENSILE STRENGTH (F $_{ct}$) IS SPECIFIED. FOR LIGHT WEIGHT CONCRETE WHERE F $_{ct}$ IS SPECIFIED, REFER TO ACI318-14 SECTION 19.2.4.3
11. SPLICES FOR BUNDLED BARS:
    a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
12. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

4 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

NO SCALE

STANDARD ADHESIVE EMBEDMENT SCHEDULE

REBAR DOWEL (THREADED ROD SIZE)	MINIMUM EMBEDMENT INTO CONCRETE OR GROUTED MASONRY
#3 (3/8")	3.3/8"
#4 (1/2")	4.1/2"
#5 (5/8")	5.5/8"
#6 (3/4")	6.3/4"



STANDARD ADHESIVE EMBEDMENT NOTES:
1. SPECIFIC EMBEDMENTS, NOTES AND DETAILS IN DRAWINGS SHALL GOVERN OVER THIS SCHEDULE.
2. HOLE DIAMETER SHALL BE DOWEL/ROD DIAMETER PLUS 1/8". FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE PREPARATION.
3. PROVIDE A 3" MINIMUM EDGE DISTANCE TO CENTER OF HOLE.
4. CONTACT STRUCTURAL ENGINEER IF MINIMUM EMBEDMENTS INDICATED ABOVE ARE NOT ACHIEVABLE.
5. SEE "POST INSTALLED ANCHORS" SECTION OF GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

5 STANDARD ADHESIVE EMBEDMENT SCHEDULE

NO SCALE

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PROFESSIONAL ENGINEER LICENSED 16702 STATE OF IDAHO ANDREW S. MORGAN
02/24/2022

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Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

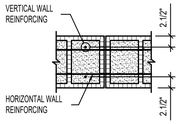
DRAWING NO.:
S6.01
SCHEDULES

MASONRY WALL SCHEDULE

MARK	THICKNESS	MATERIAL	SOLID	TYPICAL REINFORCING (SEE NOTE 1)		COMMENTS
MW-8A	8"	CMU	YES	#5 AT 32" O.C.	#4 AT 24" O.C.	
MW-12A	12"	CMU	NO	#5 AT 24" O.C.	(2) #5 AT 48" O.C.	USE HI-R BLOCK AT EXTERIOR WALLS
MW-12B	12"	CMU	YES	#5 AT 24" O.C.	(2) #4 AT 24" O.C.	SOLID GROUT BLW ROOF, USE HI-R BLOCK ABV ROOF

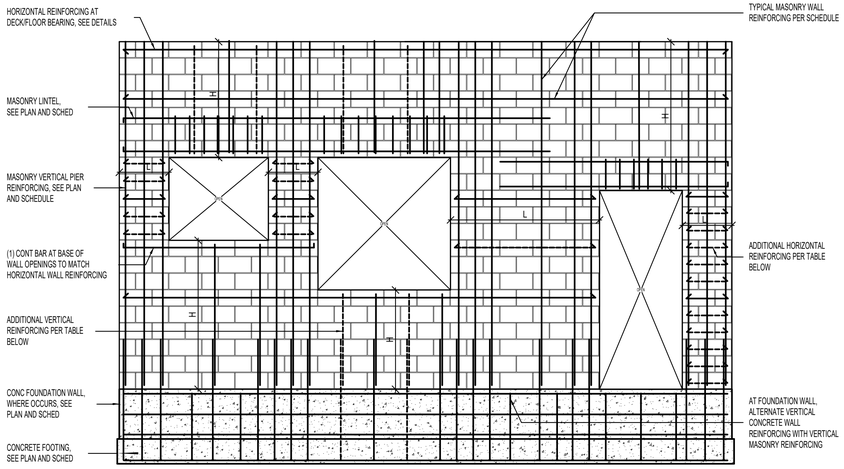
MASONRY WALLS NOT DESIGNATED IN PLAN

THICKNESS	REINFORCING		
	VERTICAL	HORIZONTAL (NOT SOLID GROUTED)	HORIZONTAL (SOLID GROUTED)
6"	#5 AT 32" O.C.	#4 AT 48" O.C.	#4 AT 24" O.C.
8"	#5 AT 32" O.C.	#5 AT 48" O.C.	#4 AT 24" O.C.
10"	#5 AT 24" O.C.	#6 AT 48" O.C.	#5 AT 24" O.C.
12"	#5 AT 24" O.C.	(2) #5 AT 48" O.C.	(2) #4 AT 24" O.C.



DOUBLE VERTICAL LAYER WALL REINFORCING AT 12" MASONRY

MASONRY WALL NOTES:
1. SPACING OF MASONRY WALL REINFORCING SHALL NOT EXCEED TYPICAL SCHEDULED REINFORCING. SEE ELEVATION AND MASONRY WALL SECTION REINFORCING TABLE BELOW FOR LOCATIONS WHERE TIGHTER SPACING IS REQUIRED.
2. COORDINATE WALL FINISHES, MATERIALS, COURSING, ETC. WITH ARCHITECTURAL DRAWINGS.
3. DO NOT SOLID GROUT WALLS UNLESS REQUIRED BY SCHEDULE, NOTES, OR DETAILS.
4. SOLID GROUT ALL MASONRY COURSES BELOW GRADE.
5. SINGLE LAYER OF VERTICAL REINFORCING SHALL BE CENTERED IN WALL (UNO).
6. VERTICAL REINFORCING SHALL EXTEND INTO FOOTINGS AND TERMINATE WITH STANDARD HOOK. FOR CONCRETE FOUNDATION WALLS 4'-0" OR TALLER, VERTICAL WALL REINFORCING SHALL DOWEL 3'-0" MINIMUM INTO THE FOUNDATION WALL (UNO).
7. PROVIDE TWO VERTICAL BARS (MIN) AT ALL CORNERS AND END OF WALLS.
8. HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN A DOUBLE LAYER OF VERTICAL MASONRY REINFORCING.
9. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
10. SEE DETAIL S/SS.02 FOR WHERE HORIZONTAL REINFORCING TERMINATES AT EDGE OF OPENINGS.
11. IN CONCRETE FOUNDATION WALL BELOW, ALTERNATE VERTICAL CONCRETE WALL REINFORCING WITH VERTICAL MASONRY REINFORCING.
12. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



MARKS AND SYMBOLS LEGEND

———	INDICATES SCHEDULED MASONRY WALL, PIER, OR LINTEL REINFORCING
- - - - -	INDICATES ADDITIONAL REINFORCING AS REQUIRED PER MASONRY WALL SECTION REINFORCING TABLE
L	INDICATES LENGTH OF WALL SECTION
H	INDICATES HEIGHT OF WALL SECTION

MASONRY WALL SECTION REINFORCING TABLE

HEIGHT OR LENGTH	MAXIMUM SPACING
H OR L ≤ 4'-0"	8" O.C.
4'-0" < H OR L < 6'-0"	16" O.C.
6'-0" < H OR L < 8'-0"	24" O.C.
8'-0" < H OR L < 10'-0"	32" O.C.
10'-0" < H OR L < 12'-0"	40" O.C.
H OR L > 12'-0"	48" O.C.

NOTES:
1. ADDITIONAL VERTICAL AND HORIZONTAL REINFORCING SHALL MATCH BAR SIZE OF SCHEDULED WALL REINFORCING AT SPACING INDICATED IN TABLE ABOVE.
2. WHERE 8" SPACING IS REQUIRED, #3 BAR MAY BE USED FOR HORIZONTAL REINFORCING.
3. WHERE SPACING OF SCHEDULED WALL REINFORCING IS LESS THAN TABLE ABOVE, SCHEDULED SPACING SHALL GOVERN.

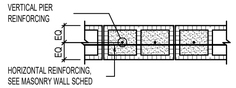
1 MASONRY WALL SCHEDULE
NO SCALE

MASONRY PIER SCHEDULE

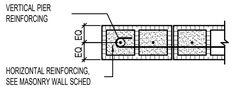
MARK	SIZE	VERTICAL REINFORCING	VERTICAL REINFORCING SCHEMATIC	COMMENTS
MP-16A	WT x 16"	(4) #5		
MP-24A	WT x 24"	(6) #5		
MP-32A	WT x 32"	(8) #5		
MP-40A	WT x 40"	(10) #5		
MP-48A	WT x 48"	(12) #5		
MP-48B	WT x 48"	(12) #6		
MP-56A	WT x 56"	(14) #6		
MP-64A	WT x 64"	(16) #6		

MASONRY PIER NOTES:
1. SEE MASONRY WALL SCHEDULE FOR HORIZONTAL REINFORCING REQUIREMENTS FOR ALL PIERS.
2. VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF WALL (UNO).
3. VERTICAL MASONRY PIER REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE FOUNDATION WALLS 4'-0" OR TALLER, VERTICAL PIER REINFORCING SHALL DOWEL 3'-0" MINIMUM INTO THE FOUNDATION WALL (UNO).
4. IN CONCRETE FOUNDATION WALLS, VERTICAL REINFORCING AT TYPE 'B' MASONRY PIERS SHALL BE TIED WITH #3 TIES AT TOP AND BOTTOM OF FOUNDATION WALL. SEE DETAILS.
5. HORIZONTAL REINFORCING OF ADJACENT WALLS SHALL RUN CONTINUOUS THROUGH MASONRY PIERS.
6. WHERE HORIZONTAL REINFORCING TERMINATES AT PIER, PROVIDE 180° HOOK, SEE SCHEMATICS BELOW.
7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

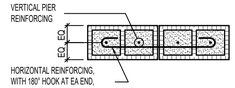
TYPE A PIER CONFIGURATION SCHEMATICS



BELOW OR ABOVE OPENING

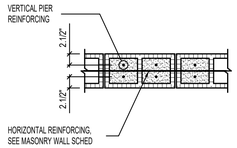


ADJACENT TO OPENING OR END OF WALL

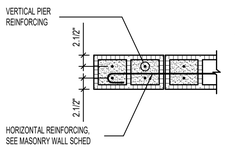


ISOLATED BETWEEN ADJACENT OPENINGS

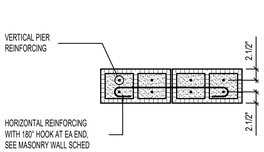
TYPE B PIER CONFIGURATION SCHEMATICS



BELOW OR ABOVE OPENING



ADJACENT TO OPENING OR END OF WALL



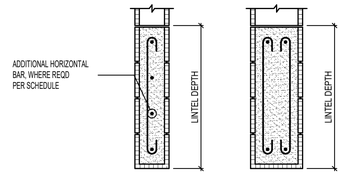
ISOLATED BETWEEN ADJACENT OPENINGS

2 MASONRY PIER SCHEDULE
NO SCALE

MASONRY LINTEL SCHEDULE

MARK	DEPTH	REINFORCING		TYPE	COMMENTS
		HORIZONTAL	STIRRUPS		
ML-16A	16"	(1) #5 x CONT TOP AND BOTTOM	NONE	-	
ML-24A	24"	(1) #6 x CONT TOP AND BOTTOM	NONE	-	
ML-40A	40"	(2) #7 x CONT TOP AND BOTTOM	#4 AT 16" O.C.	-	
ML-64A	64"	(2) #8 x CONT TOP AND BOTTOM	#4 AT 16" O.C.	-	
ML-80A	80"	(2) #8 x CONT TOP AND BOTTOM	#4 AT 16" O.C.	-	
ML-96A	96"	(2) #8 x CONT TOP AND BOTTOM	#4 AT 16" O.C.	-	

MASONRY LINTEL NOTES:
1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
2. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR PIER AT EACH END.
3. MASONRY LINTEL ML-8A SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATER THAN 3'-4".
4. MASONRY LINTEL ML-8A SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS.
5. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
6. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
8. DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



3 MASONRY LINTEL SCHEDULE
NO SCALE

MASONRY REINFORCING LAP SPLICE SCHEDULE

BAR SIZE	8" MASONRY		10" MASONRY		12" MASONRY	
	(1) BAR PER CELL	(2) BARS PER CELL	(1) BAR PER CELL	(2) BARS PER CELL	(1) BAR PER CELL	(2) BARS PER CELL
#3	12"	12"	12"	12"	12"	12"
#4	13"	21"	12"	20"	12"	20"
#5	20"	35"	16"	32"	13"	32"
#6	38"	SEE NOTE 1	29"	60"	24"	60"
#7	52"	SEE NOTE 1	40"	SEE NOTE 1	33"	63"
#8	SEE NOTE 1	SEE NOTE 1	61"	SEE NOTE 1	50"	SEE NOTE 1

2018 IBC

NOTES:
1. WHERE INDICATED, USE MECHANICAL SPLICE COUPLER. SEE GSN FOR REQUIREMENTS.
2. WHERE VERTICAL BARS HAVE A SPECIFIED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, USE MECHANICAL SPLICE COUPLER.

4 MASONRY REINFORCING LAP SPLICE SCHEDULE (f'm=2000psi)
NO SCALE

VENEER LINTEL SCHEDULE

CLEAR OPENING	SIZE OF ANGLE
UP TO 5'-0"	L3.1/2x3.1/2x1/4 (LLH)
5'-1" TO 7'-0"	L3.1/2x3.1/2x1/4
7'-1" TO 9'-0"	L5x3.1/2x1/4 (LLV)
9'-1" TO 10'-0"	L5x3.1/2x5/16 (LLV)
10'-1" TO 11'-0"	L5x3.1/2x3/8 (LLV)
11'-1" TO 12'-0"	L6x4x3/8 (LLV)
12'-1" AND OVER	REQUIRES SPECIAL ANALYSIS

NOTE:
LINTELS CARRY VENEER ONLY. WHERE FLOORS, ROOFS, OR CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING AT EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING OF 6" EACH SIDE OF OPENING. USE THIS SCHEDULE UNLESS NOTED OTHERWISE. STEEL ANGLES SHALL BE GALVANIZED AT EXTERIOR CONDITIONS.

5 VENEER LINTEL SCHEDULE
NO SCALE

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02/24/2022

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Revisions Description	Date
#	

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

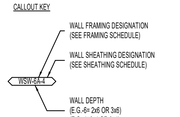
Bid Set

DRAWING NO.:
S6.02
SCHEDULES

WOOD WALL FRAMING SCHEDULE (WSW-x)

MARK	STUDS	TOP PLATE	RIM BOARD	COMMENTS
WSW-4A	2x4 AT 16" O.C.	(2) 2x4	-	-
WSW-6A	2x6 AT 16" O.C.	(2) 2x6	-	-

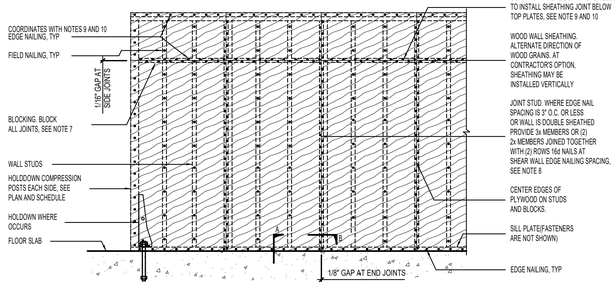
CALLOUT KEY

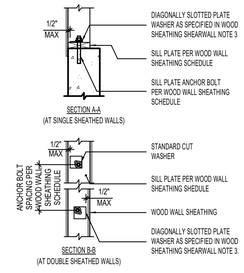


7/16" WOOD WALL SHEATHING SCHEDULE (WSW-x)

MARK	STUD & BLOCK AT JOINTS (NOTE 7)	THICKNESS	NAIL SIZE	EDGE NAIL	FIELD NAIL	SILL OR BOTTOM PLATE	BOTTOM PLATE FASTENERS	SILL PLATE ANCHOR BOLTS (NOTE 1-6)	RIM BOARD FASTENERS (NOTE 9 & 10)	CAPACITIES V(Q)	CAPACITIES W(L)	COMMENTS
N	2x	SEE ARCH	-	-	-	2x	16d NAILS AT 6" O.C.	5/8"DIA AT 48" O.C.	16d TOENAIL AT 6" O.C.	60plf	60plf	NO STRUCTURAL SHEATHING REQ'D
6		7/16" OSB	8d	6" O.C.	12" O.C.		16d NAILS AT 6" O.C.	5/8"DIA AT 32" O.C.	"A34" AT 16" O.C.	260plf	348plf	
4				4" O.C.			16d NAILS AT 4" O.C.	5/8"DIA AT 32" O.C.	"A34" AT 16" O.C.	380plf	386plf	
3				3" O.C.			16d NAILS AT 4" O.C.	5/8"DIA AT 32" O.C.	"A34" AT 12" O.C. OR "A35" AT 16" O.C.	490plf	515plf	
2				2" O.C.			1/4"x6" SDS WOOD SCREWS AT 8" O.C.	5/8"DIA AT 16" O.C.	"A34" AT 8" O.C.	640plf	772plf	
44	3x	7/16" OSB		4" O.C.		3x	1/4"x6" SDS WOOD SCREWS AT 6" O.C.	5/8"DIA AT 16" O.C.	"A34" AT 8" O.C.	760plf	772plf	SHEATHING IS REQ'D BOTH SIDES OF WALLS (NOTE 8)
33		EACH SIDE		3" O.C.			1/4"x6" SDS WOOD SCREWS AT 6" O.C.	5/8"DIA AT 16" O.C.	"A35" AT 8" O.C.	980plf	1,042plf	
22		OF WALL		2" O.C.			1/4"x6" SDS WOOD SCREWS AT 4" O.C.	5/8"DIA AT 16" O.C.	"GA2" AT 6" O.C.	1,280plf	1,387plf	

WOOD SHEATHING SHEARWALL NOTES:
1. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148") AT SILL PLATE USE HOT-DIPPED OR TUMBLED GALVANIZED NAILS, IN ACCORDANCE WITH IBC 2304.10.
2. MINIMUM NAIL PENETRATION INTO FRAMING: 8d - 1.1/2", 10d - 1.5/8".
3. ALL SILL PLATES TO BE PRESSURE TREATED LUMBER.
4. PROVIDE 1/4"x3"x0'-4 1/2" (1/4" x 3" x 0'-3" FOR 2x4 WALLS) WASHER PLATES AT SILL PLATE ANCHOR BOLTS WITH A DIAGONAL SLOTTED HOLE WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH OF UP TO 1 3/4". PROVIDE A STANDARD CUT WASHER BETWEEN THE PLATE WASHER AND THE NUT. EDGE OF PLATE WASHER TO BE WITHIN 1/2" OF SHEATHED EDGE OF SILL PLATE (REFERENCE SECTION A-A BELOW). FOR DOUBLE SHEATHED WALLS STAGGER PLATE WASHERS TO BE WITHIN 1/2" OF EACH SHEATHING EDGE OF SILL PLATE (REFERENCE SECTION B-B BELOW).
5. ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A STANDARD 90° HOOK OF 3-TIMES THE ANCHOR BOLT DIAMETER AND BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.10.5.
6. ANCHOR BOLTS MAY BE REPLACED WITH POST-INSTALLED ADHESIVE ANCHORS, POST-INSTALLED DRILL-IN MECHANICAL ANCHORS (EXPANSION BOLTS), OR POST-INSTALLED SCREW ANCHORS. REFER TO GENERAL STRUCTURAL NOTES FOR ACCEPTABLE PRODUCTS. POST-INSTALLED ANCHORS SHALL BE INSTALLED TO SAME DIAMETER AND DEPTH REQUIREMENT AS CAST-IN-PLACE BOLTS.
7. WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.
8. CONTRACTOR HAS OPTION TO ORIENT BLOCKING WITH WIDE FACE VERTICAL IN WHICH CASE 2x4 BLOCKING IS SUFFICIENT FOR ALL WALLS. PROVIDE BLOCK ON BOTH SIDES OF WALL IN CASES WHERE WALL IS SHEATHED BOTH SIDES.
9. WHERE WOOD SHEATHING IS APPLIED TO BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBER SHALL BE 3" OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED.
10. AT PARTY WALLS, PROVIDE DOUBLE SHEATHING ON ONE WALL ONLY AND NOT (1) SHEATHING ON BOTH WALLS. HOLDOWN MUST BE LOCATED ON SHEATHED WALL.
11. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.





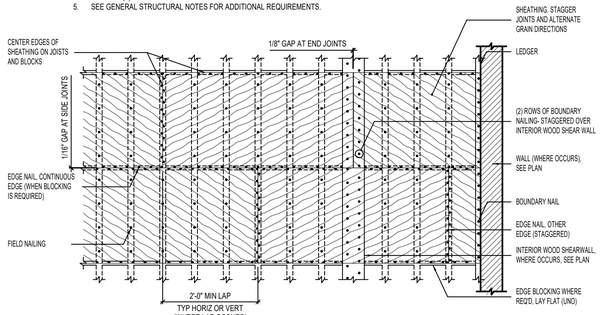
1 WOOD SHEATHING SHEARWALL SCHEDULE [WOOD SHEATHING VERTICAL ORIENTATION] [ELEVATION VIEW]

NO SCALE

SHEATHING SCHEDULE AT ROOF AND FLOOR

LOCATION	WOOD SHEATHING THICKNESS	SPAN RATING	NAIL SIZE	EDGE NAIL		FIELD NAIL	BOUNDARY NAIL	EDGE BLOCK	COMMENTS
				CONT EDGE	OTHER EDGE				
ROOF	19/32"	40/20	8d	6"	6"	12"	6"	NO	T&G

SHEATHING NOTES:
1. MINIMUM NAIL PENETRATION INTO FRAMING: 8d-1.1/2", 10d-1.5/8".
2. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148").
3. ALL WOOD FLOOR SHEATHING SHALL BE GLUED AND NAILED. USE A CONSTRUCTION ADHESIVE.
4. PROVIDE (2) ROWS OF BOUNDARY NAILING STAGGERED OVER INTERIOR SHEAR WALLS AT FLOOR AND ROOF.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



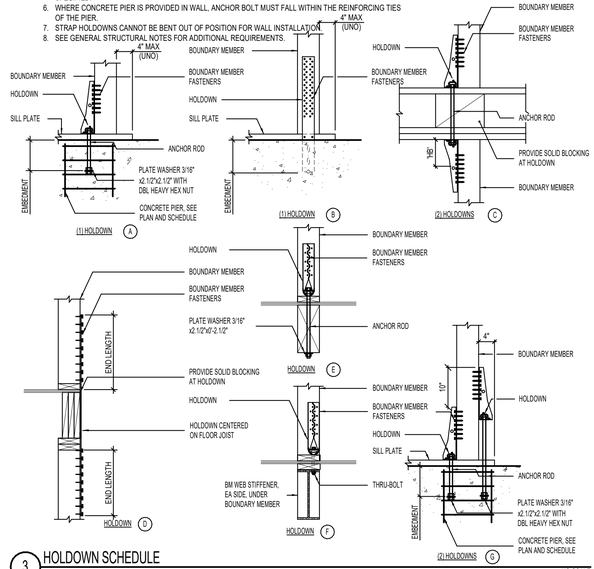
2 SHEATHING SCHEDULE AT ROOF AND FLOOR [PLAN VIEW]

NO SCALE

HOLDOWN SCHEDULE

SIMPSON HOLDOWN	BOUNDARY MEMBER	BOUNDARY MEMBER FASTENERS	END LENGTH	ANCHOR ROD	EMBEDMENT			DETAIL	COMMENTS
					LOCATION	CAST IN PLACE	EPOXY		
LSTHD8	(2) 2x6 MIN	(20) 16d NAILS		-		8"	N/A	B	NOTE 7
STHD10	(2) 2x6 MIN	(24) 16d NAILS		-		10"	N/A	B	NOTE 7
STHD14	(2) 2x6 MIN	(30) 16d NAILS		-		14"	N/A	B	NOTE 7
HDU2	(2) 2x6 DF NO.2 MIN	(6) 1/4"DIA x 2.1/2" SDS		5/8"DIA	AT FOOTING	9"	11"	A, C, E, F	NOTE 6
					AT CONC WALL W/ CONC PER	16"	18"		
HDU4	(2) 2x6 DF NO.2 MIN	(10) 1/4"DIA x 2.1/2" SDS		5/8"DIA	AT FOOTING	9"	11"	A, C, E, F	NOTE 6
					AT CONC WALL W/ CONC PER	16"	20"		
HDU5	(2) 2x6 DF NO.2 MIN	(14) 1/4"DIA x 2.1/2" SDS		5/8"DIA	AT FOOTING	9"	11"	A, C, E, F	NOTE 6
					AT CONC WALL W/ CONC PER	16"	21"		
HDU8	(3) 2x6 DF NO.2 MIN	(20) 1/4"DIA x 2.1/2" SDS		7/8"DIA	AT FOOTING	12"	N/A	A, C, E, F	NOTE 6
					AT CONC WALL W/ CONC PER	16"	N/A		
HDU11	6x6 POST DF NO.2 MIN	(30) 1/4"DIA x 2.1/2" SDS		1"DIA	AT FOOTING	15"	N/A	A, C, E, F	NOTE 6
					AT CONC WALL W/ CONC PER	16"	N/A		
HDU14	6x6 POST DF NO.2 MIN	(36) 1/4"DIA x 2.1/2" SDS		1"DIA	AT FOOTING	15"	N/A	A, C, E, F	NOTE 6
					AT CONC WALL W/ CONC PER	16"	N/A		
(2) HDU11	6x8 POST DF NO.2 MIN	(60) 1/4"DIA x 2.1/2" SDS		(2) 1"DIA	AT FOOTING	18"	N/A	G	NOTE 6
					AT CONC WALL W/ CONC PER	16"	N/A		
(2) HDU14	6x8 POST DF NO.2 MIN	(72) 1/4"DIA x 2.1/2" SDS		(2) 1"DIA	AT FOOTING	21"	N/A	G	NOTE 6
					AT CONC WALL W/ CONC PER	18"	N/A		
CMST12	(2) 2x6 MIN	(68) 10d NAILS	44"		-	-	-	D	
CMST14	(2) 2x6 MIN	(76) 10d NAILS	34"		-	-	-	D	
CMSTC16	(2) 2x6 MIN	(58) 16d SINKER NAILS	25"		-	-	-	D	
CS14	(2) 2x6 MIN	(30) 10d NAILS	16"		-	-	-	D	
CS16	(2) 2x6 MIN	(22) 10d NAILS	13"		-	-	-	D	
CS18	(2) 2x6 MIN	(18) 10d NAILS	11"		-	-	-	D	
CS20	(2) 2x6 MIN	(14) 10d NAILS	9"		-	-	-	D	

HOLDOWN NOTES:
1. ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.
2. LAG SCREWS SHALL NOT BE USED.
3. DO NOT OVER TORQUE NUTS; SEE MANUFACTURER'S TORQUE REQUIREMENTS.
4. ANCHOR RODS SHALL BE ASTM F1554 Gr. 36 OR A36 THREADED ROD AND SHALL HAVE A 3/16"x2.1/2"x2.1/2" PLATE WASHER WITH DOUBLE HEAVY HEX NUT AT THE EMBEDMENT END INTO THE CONCRETE.
5. INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
6. WHERE CONCRETE PIER IS PROVIDED IN WALL, ANCHOR BOLT MUST FALL WITHIN THE REINFORCING TIES OF THE PIER.
7. STRAP HOLDOWNS CANNOT BE BENT OUT OF POSITION FOR WALL INSTALLATION.
8. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



3 HOLDOWN SCHEDULE

NO SCALE

MINIMUM NAILING SCHEDULE

CONNECTION	NAILING
SILL PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOE NAIL	8d AT 6" O.C.
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(3) 10d
FACE NAIL	(2) 16d
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JOIST TO BAND JOIST, FACE NAIL	(3) 16d
LEDGER STRIP, FACE NAIL	(3) 16d
TOP PLATE TO STUD, END NAIL	(2) 16d
DOUBLE STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATES, LAPS & INTERSECTION, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOENAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOENAIL	(3) 8d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(2) 8d
BUILT-UP CORNER STUDS	16d AT 24" O.C.
BUILT-UP GIRDER & BEAMS	20d AT 32" O.C. AT TOP, BOTTOM, AND STAGGERED ON OPPOSITE SIDES. (2) 20d AT ENDS AND AT EACH SPLICE.
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
STUD TO SOLE PLATE, END NAIL	(2) 16d
PLYWOOD & PARTICLEBOARD:	SEE WOOD SCHEDULE USED IN DRAWINGS FOR NAIL SIZE AND SPACING

MINIMUM NAILING NOTES:
1. NAILING SCHEDULE IS PER TABLE 2304.10.1 OF THE I.B.C. 2018.
2. NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE SHOWN ON THE PLANS OR DETAILS.
3. MINIMUM NAIL PENETRATION INTO FRAMING: 8D - 1.1/2", 10D - 1.5/8", 16D - 1.3/4" (UNO).
4. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148", 16d DIAMETER = 0.162")
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

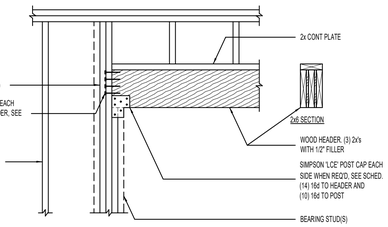
4 MINIMUM NAILING SCHEDULE

NO SCALE

HEADER BEARING SCHEDULE FOR WOOD STUD WALL

MARK	3'-6" MAX		6'-6" MAX		13'-6" MAX			COMMENTS
	HEADER	JAMB	HEADER	JAMB	HEADER	JAMB		
WH-1	(3) 2x8	1k2b	(3) 2x14	1k2b	-	-	-	-
WH-2	(3) 2x8	2k1b	(3) 2x10	3k1b	(3) 1.3/4" x 9.1/4"LVL	5k1b		

HEADER SCHEDULE NOTES:
1. PROVIDE SIMPSON 'LCE' POST CAP FOR ALL HEADER 6'-0" SPAN OR GREATER.



5 HEADER BEARING SCHEDULE FOR 2x4 OR 2x6 STUD WALL

NO SCALE

VENEER LINTEL SCHEDULE

CLEAR OPENING	SIZE OF ANGLE
UP TO 5'-0"	L3.1/2x3x1/4 (LLH)
5'-1" TO 7'-0"	L3.1/2x3.1/2x1/4
7'-1" TO 9'-0"	L5x3.1/2x1/4 (LLV)
9'-1" TO 10'-0"	L5x3.1/2x5/16 (LLV)
10'-1" TO 11'-0"	L5x3.1/2x3/8 (LLV)
11'-1" TO 12'-0"	L6x4x3/8 (LLV)
12'-1" AND OVER	REQUIRES SPECIAL ANALYSIS

NOTE:
LINTELS CARRY VENEER ONLY. WHERE FLOORS, ROOFS, OR CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING AT EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING OF 6" EACH SIDE OF OPENING. USE THIS SCHEDULE UNLESS NOTED OTHERWISE. STEEL ANGLES SHALL BE GALVANIZED AT EXTERIOR CONDITIONS.

6 VENEER LINTEL SCHEDULE

NO SCALE

WOOD HANGER SCHEDULE

STRUCTURAL ELEMENT DESIGNATION	END CONNECTION		
	WALL/BEAM BEARING	FACE MOUNT HANGER	TOP FLANGE HANGER
2x6, 2x8	SIMPSON 'H1' OR 'H2.5' WITH (10) 8dx1.1/2" NAILS	SIMPSON 'LUS26' WITH (4) 10d x3" NAILS INTO BEAM AND (4) 10dx1.1/2" NAILS TO JOIST	SIMPSON 'JB' WITH (4) 10dX2.1/2" NAILS INTO BEAM AND WITH (2) PRONGS INTO JOIST
2X10, 2X12	SIMPSON 'H1' OR 'H2.5' WITH (10) 8dx1.1/2" NAILS	SIMPSON 'LUS210' WITH (8) 10dx3" NAILS TO BEAM AND (4) 10dX1.1/2" NAILS TO JOIST	SIMPSON 'JB' WITH (8) 10dX2.1/2" NAILS INTO BEAM AND WITH (2) 10dx1.1/2" NAILS INTO JOIST
1.3/4" X (UP TO 16" DEEP) LVL	SIMPSON 'H2.5' WITH (10) 8dx1.1/2" NAILS	SIMPSON 'IUS1.81' WITH 10dX3" NAILS INTO BEAM (FILL ALL REQUIRED NAIL HOLES)	SIMPSON 'ITS' WITH (4) 10dX2.1/2" NAILS INTO TOP OF BEAM, (2) 10dX2.1/2" NAILS INTO FACE OF BEAM AND WITH (2) 10dx1.1/2" NAILS INTO JOIST
WOOD I-JOISTS (UP TO 16" DEEP)	SIMPSON 'H2.5' WITH (10) 8dx1.1/2" NAILS	SIMPSON 'IUS' WITH 10dX3" NAILS INTO BEAM (FILL ALL REQUIRED NAIL HOLES)	SIMPSON 'ITS' WITH (4) 10dX2.1/2" NAILS INTO TOP OF BEAM, (2) 10dX2.1/2" NAILS INTO FACE OF BEAM AND WITH (2) 10dx1.1/2" NAILS INTO JOIST
PREFABRICATED ROOF TRUSSES (1.1/2" WIDE X 30" DEEP (MAX))	SIMPSON 'H1' OR 'H2.5' WITH (10) 8dx1.1/2" NAILS	SIMPSON 'HUS26' WITH (16) 16dX3.1/2" NAILS INTO BEAM AND (6) 16dX3.1/2" NAILS INTO TRUSS AT BOTTOM CHORD	SIMPSON 'BA1.56/X' WITH (6) 10dX2.1/2" NAILS INTO TOP OF BEAM, (6) 10dX2.1/2" NAILS INTO FACE OF BEAM AND WITH (2) 10dx1.1/2" NAILS INTO TRUSS

NOTES:
1. SEE JOIST DETAIL CONNECTION AT JOIST END TO DETERMINE WHICH TYPE OF END CONNECTION TO USE.
2. CONNECTION HARDWARE TO BE SIMPSON STRONG-TIE OR APPROVED EQUAL.
3. MINIMUM NAIL PENETRATION INTO FRAMING: 8d - 1.1/2", 10d - 1.5/8", 16d - 1.3/4" (UNO).
4. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148", 16d DIAMETER = 0.162")
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

7 WOOD HANGER SCHEDULE

NO SCALE

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PROFESSIONAL ENGINEER LICENSED 16702 STATE OF IDAHO ANDREW S. MORGAN

02/24/2022

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Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

S6.03

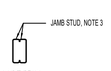
SCHEDULES

HEADER/JAMB SCHEDULE

MARK	CONDITION	JAMB TYPE	HEADER TYPE	SILL	COMMENTS
MH-1	METAL STUD	J1	H1	-	-

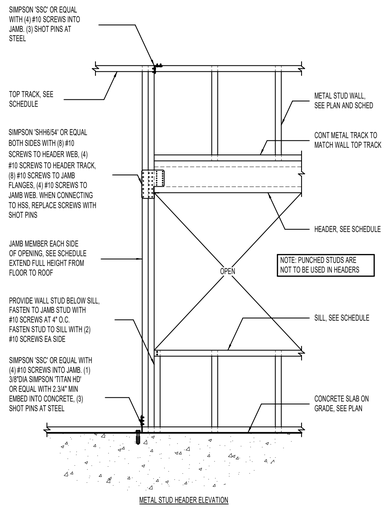
HEADER/JAMB NOTES:
1. ATTACH ALL COMPONENTS TOGETHER WITH #10 SCREWS AT 6" O.C. OR ATTACH COMPONENTS 18 GA OR HIGHER WITH 1/8" x 1" FILLET WELDS AT 12" O.C.
2. SCREWS SHALL PENETRATE THROUGH FRAMING MEMBER WITH AT LEAST THREE THREADS.
3. STUDS SHALL BE A MINIMUM OF 1.5/8" WIDE WITH A 3/8" MINIMUM RETURN LIP. JAMB STUD TO MATCH WALL STUD.
4. TRACKS SHALL BE A MINIMUM OF 1.1/4" WIDE. TRACK GAUGE AND DEPTH TO MATCH WALL STUD.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

JAMB TYPES



HEADER TYPES

HEADER TYPE "H1"



METAL STUD HEADER ELEVATION

1 STEEL HEADER/JAMB SCHEDULE

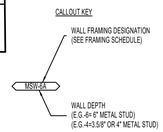
NO SCALE

METAL STUD WALL FRAMING SCHEDULE (MSW-x)

MARK	LEVELS	STUDS	TOP TRACK	BOTTOM TRACK	BOTTOM TRACK FASTENERS	COMMENTS
MSW-4A	STAGE	400S162-43 AT 16"	400T125-54	400T125-54	HILTI "X-U" x 1.1/2" POWER ACTIVATED FASTENERS AT 24" O.C.	INTERIOR BEARING WALLS

METAL STUD SHEARWALL NOTES:
1. BOTTOM TRACK FASTENERS TO BE CONCRETE SCREW ANCHOR OR CONCRETE WEDGE ANCHOR SUITABLE FOR CRACKED CONCRETE.
2. ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A STANDARD 90° HOOK OF 3-TIMES THE ANCHOR BOLT DIAMETER AND BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.10.5.
3. ANCHOR BOLTS MAY BE REPLACED WITH POST-INSTALLED ADHESIVE ANCHORS, POST-INSTALLED DRILL-IN MECHANICAL ANCHORS (EXPANSION BOLTS), OR POST-INSTALLED SCREW ANCHORS. REFER TO GENERAL STRUCTURAL NOTES FOR ACCEPTABLE PRODUCTS. POST-INSTALLED ANCHORS SHALL BE INSTALLED TO SAME DIAMETER AND DEPTH REQUIREMENT AS CAST-IN-PLACE BOLTS.
4. SCREWS SHALL HAVE A MINIMUM HEAD DIAMETER OF .292". IN ACCORDANCE WITH SAE J78.
5. SCREWS SHALL PENETRATE THROUGH FRAMING MEMBER WITH AT LEAST THREE THREADS.
6. STUDS SHALL BE A MINIMUM OF 1.5/8" WIDE WITH A 3/8" MINIMUM RETURN LIP.
7. TRACKS SHALL BE A MINIMUM OF 1.1/4" WIDE.
8. FOR STUD AND TRACK THICKNESSES GREATER THAN 43 MIL. USE Fy=50 KSI STEEL, OTHERWISE USE Fy=33 KSI STEEL.
9. HORIZONTAL BLOCKING SHALL BE PROVIDED AT 4'-0" O.C. MAX.
10. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

CALLOUT KEY



2 METAL STUD WALL SCHEDULE [ELEVATION VIEW]

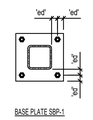
NO SCALE

STEEL COLUMN SCHEDULE

MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS
SC-4A	HSS4x4x3/16	1/4" (SBP-1)	1/4" (SCP-1)	

STEEL COLUMN NOTES:
1. UNLESS NOTED OTHERWISE. ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4"DIA ANCHOR RODS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR RODS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL RODS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE ROD DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
2. ALL CAP PLATE BOLTS SHALL BE 3/4"DIA A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
3. ANCHOR RODS SHALL NOT BE WELDED (INCLUDING TACK WELDS)
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

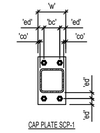
STEEL BASE PLATE TYPES:



BASE PLATE SBP-1

PLATE LEGEND
co = 1/2" MINIMUM
ed = 1.1/2" MINIMUM
sp = 3" MINIMUM
bc = BEAM OR GIRDER GAGE
w = BEAM OR GIRDER GAGE + 3"
OR
BEAM OR GIRDER WIDTH + 1"
OR
COLUMN WIDTH + 1"
WHICHEVER IS GREATER

STEEL CAP PLATE TYPES:



CAP PLATE SCP-1

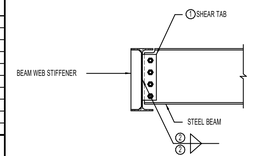
3 STEEL COLUMN SCHEDULE

NO SCALE

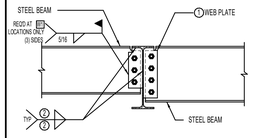
A-325 BOLT SCHEDULE

MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP	A-325N BOLTS			
	No. PER BEAM	SIZE	ASD CAPACITY	SEISMIC AXIAL CAPACITY
W8	2	3/4"DIA	16.4K	12K
W10	2	3/4"DIA	21.1K	25K
W12	3	3/4"DIA	24.4K	25K
W14	3	3/4"DIA	34.4K	20K
W16	4	3/4"DIA	46.3K	35K
W18	5	3/4"DIA	58.7K	65K
W21	6	3/4"DIA	70.8K	85K
W24	7	3/4"DIA	83.0K	100K
W27	8	3/4"DIA	95.1K	117K
W30	9	3/4"DIA	107.1K	132K

1. SHEAR TAB SHALL BE 1/2" THICK AT STEEL BEAMS LABELED WITH 'SRE' ON PLAN. INCREASE THICKNESS OF SHEAR TAB TO 3/4" AND ALL BOLTS SHALL BE PRETENSIONED WITH CLASS A FAYING SURFACES
2. 5/16" FILLET WELD EACH SIDE OF SHEAR TAB.
3. BOLT SPACING SHALL BE 3" MIN. TYP. REDUCE BOLT SPACING TO 2.7/8 WHERE NEEDED TO FIT THE REQUIRED QUANTITY OF BOLTS.
4. WHEN MORE THAN ONE ROW OF BOLTS IS NEEDED, THE FIRST ROW SHALL BE A COMPLETE ROW WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND ROW WITH (3) BOLTS MIN AT SECOND ROW.
5. HSS COLUMN THAT DO NOT HAVE A MINIMUM 1/4" WALL THICKNESS SHALL USE A SINGLE ANGLE CONNECTION WHERE STEEL TUBE WALL IS TOO THIN.
6. AT MOMENT FRAME COLUMNS, SEE MOMENT CONNECTION DETAILS FOR CONTINUITY PLATE REQUIREMENTS.
7. BOLT EDGE DISTANCE, Le/h SHALL BE EQUAL TO TWICE THE BOLT DIAMETER FOR BOTH THE PLATE AND THE BEAM WEB.
8. BOLT EDGE DISTANCE, Lev SHALL BE 1.1/4" FOR BOLT DIAMETERS 7/8" OR LESS AND 1.3/4xBOLT DIAMETER FOR BOLT DIAMETERS GREATER THAN 7/8".
9. ANGLE SIZE SHALL BE 3" FOR SHORT LEG AND 4 TIMES THE BOLT DIAMETER +1" FOR THE LONG LEG.
10. AT STEEL BEAMS LABELED WITH 'SRE' ON PLAN THAT FRAME INTO HSS COLUMNS, THE SHEAR TAB SHALL RUN CONTINUOUSLY THROUGH A SLOT IN THE COLUMN



BEAM TO BEAM SHEAR TAB CONNECTION



BEAM TO BEAM WEB PLATE CONNECTION

4 TYPICAL 3/4"DIA BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE

NO SCALE

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PROFESSIONAL ENGINEER LICENSED 16702 STATE OF IDAHO ANDREW S. MORGAN

02/24/2022

BHB STRUCTURAL
390 East Corporate Drive, Ste. 104
Meridian, Idaho 83642
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Revisions	Date
Description	
#	

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: February 11 2022
LKV PROJECT #: 210947

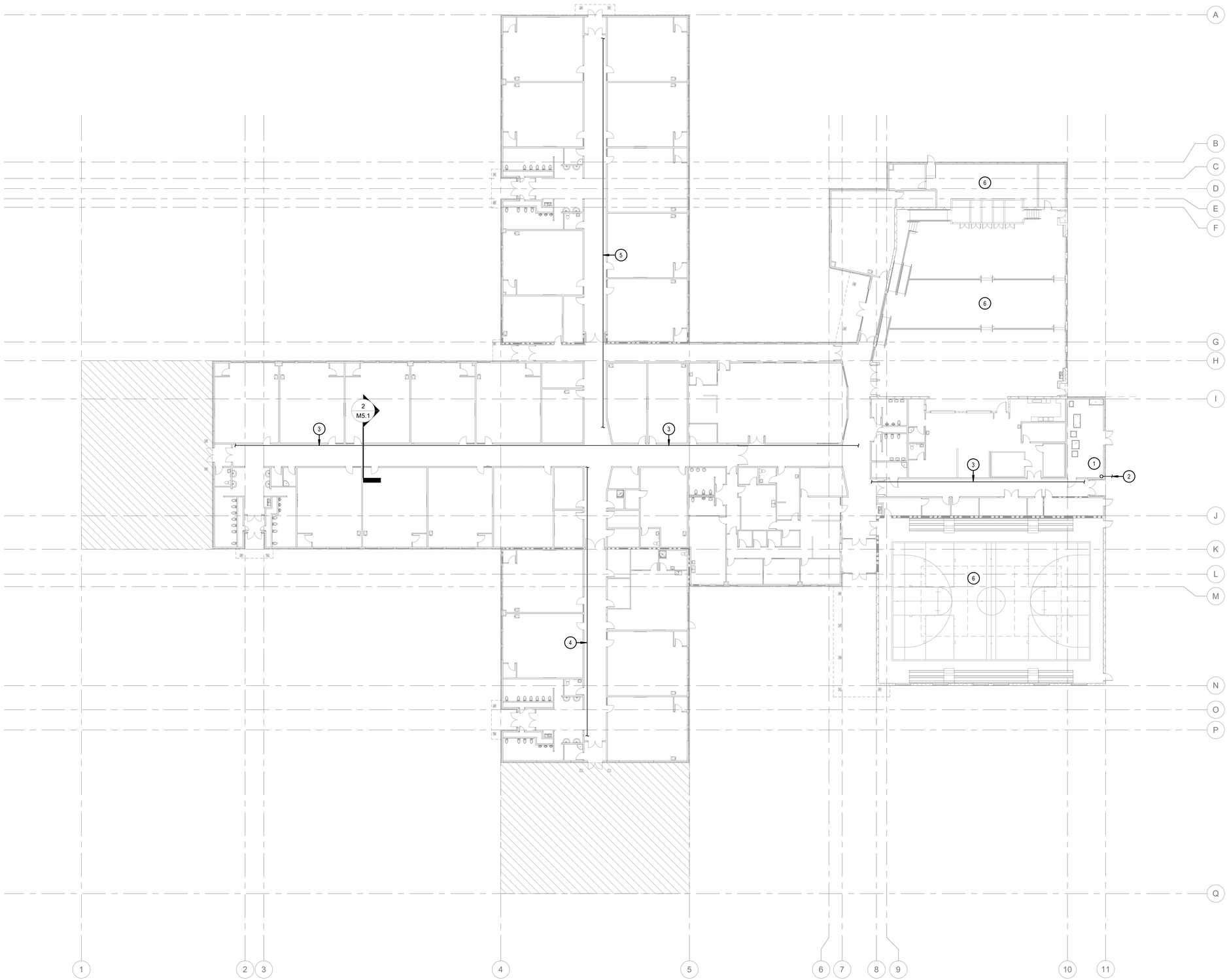
DRAWN BY: TNT
CHECKED BY: DM

Bid Set

DRAWING NO.:

S6.04

SCHEDULES



1 FIRE SPRINKLER PLAN
1" = 20'-0"

GENERAL NOTES

A. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR. THIS PLAN INDICATES GENERAL PARAMETERS THE FIRE SPRINKLER CONTRACTOR MUST DESIGN AND INSTALL AROUND. THE ENGINEER/ARCHITECT/OWNER RESERVES THE RIGHT TO REVIEW AND APPROVE TEST VALVES, ZONING VALVES, FLOW SENSORS, ETC. DURING THE SUBMITTAL PROCESS.

B. FIRE SPRINKLER CONTRACTORS SHALL BE LICENSED BY THE IDAHO STATE FIRE MARSHAL, AND SHALL HAVE IN HIS/HER EMPLOY AND WITHIN 50 MILES OF THE JOB SITE AN ENGINEERING TECHNICIAN (LEVEL III), CERTIFIED BY NICET (NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES). PROOF OF BOTH MUST BE SUBMITTED TO THE ENGINEER PRIOR TO THE START OF ANY FIRE SPRINKLING DESIGN AND/OR INSTALLATION, NO EXCEPTIONS.

C. ALL WORK REQUIRED FOR THE FIRE PROTECTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR. THE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED BY THE FIRE SPRINKLER CONTRACTOR AS REQUIRED TO SATISFY THE REQUIREMENTS OF THE LOCAL JURISDICTION AND NFPA 13, LATEST EDITION. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE DESIGN OF THE FIRE SPRINKLER SYSTEM.

D. REFER TO FIRE SPRINKLER SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

E. PROVIDE RECESSED HEADS IN ALL AREAS EXCEPT WHERE ROOM IS OPEN TO STRUCTURE.

F. NO STANDOFF SPRINKLER HEADS (THOSE THAT DROP BELOW CEILING OR SOFFIT TO PROVIDE BETTER COVERAGE) ALLOWED. ALL SPRINKLER HEADS MUST BE FLUSH WITH CEILING OR EXTERIOR SOFFIT.

G. REFERENCE ARCHITECTURAL SECTIONS FOR LOCATION OF BUILDING INSULATION ENVELOPES.

H. PIPE ALL AUXILARY DRAINS TO EXTERIOR OF BUILDING OR APPROVED RECEPTACLE. COORDINATE WITH ARCHITECT.

I. IN COLD SPACES WHERE A NON-FREEZE FIRE SPRINKLER SYSTEM IS REQUIRED, CONTRACTOR SHALL PROVIDE A DRY PIPE SPRINKLER SYSTEM.

J. FIRE SPRINKLER CONTRACTOR SHALL LOCATE OVERHEAD SPRINKLER HEADS IN A STRAIGHT AND UNIFORM LINE AT INDICATED LOCATIONS IN HALLWAY CEILINGS. HEADS SHALL BE LOCATED IN EXACT CENTER OF CEILING TILES.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. AREA RESERVED FOR FIRE SPRINKLER RISER SYSTEM. FIRE SPRINKLER RISER SYSTEM SHALL INCLUDE A TAMPER SWITCH, FLOW SWITCH, ALARM BELL, FIRE DEPARTMENT CONNECTION, AND POST INDICATOR VALVE (PIV).

2. FIRE SPRINKLER LINE TO BE SIZED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR. FIRE SPRINKLER CONTRACTOR SHALL DESIGN THE FIRE SPRINKLER SYSTEM ACCORDING THE STATIC PRESSURE AND FLOWS AVAILABLE AS PROVIDED BY THE LOCAL WATER UTILITY COMPANY. FIRE LINE CONNECTION TO MAIN WATER SERVICE SHALL MEET STATE AND LOCAL UTILITY REQUIREMENTS.

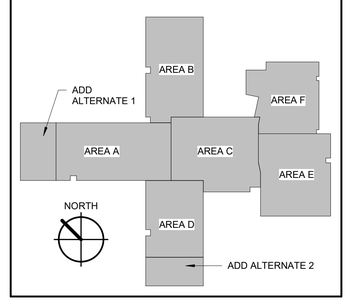
3. ROUTE FIRE SPRINKLER PIPING ALONG NORTH SIDE OF HALLWAY. PIPE TO BE ROUTED TIGHT TO BOTTOM OF CEILING JOIST. SEE MECHANICAL SECTION ON M5.1.

4. ROUTE FIRE SPRINKLER PIPING ALONG WEST SIDE OF HALLWAY. PIPE TO BE ROUTED TIGHT TO BOTTOM OF CEILING JOIST. SEE MECHANICAL SECTION ON M5.1.

5. ROUTE FIRE SPRINKLER PIPING ALONG EAST SIDE OF HALLWAY. PIPE TO BE ROUTED TIGHT TO BOTTOM OF CEILING JOIST. SEE MECHANICAL SECTION ON M5.1.

6. PROVIDE PROTECTIVE COVERS ON SPRINKLER HEADS IN GYM, CAFETORIUM, AND STAGE AREAS.

Keyed Plan



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PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.

project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

FS1.0
FIRE SPRINKLER PLAN

MECHANICAL ABBREVIATIONS

A/C or AC	AIR CONDITIONING	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AHU	AIR HANDLING UNIT		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
BTU	BRITISH THERMAL UNITS	LWT	LEAVING WATER TEMPERATURE
BTUH	BTUS PER HOUR		
		MAX	MAXIMUM
CA	COMBUSTION AIR	MCA	MINIMUM CIRCUIT AMPS
CC	COOLING COIL	MOCP	MAXIMUM OVERCURRENT PROTECTION
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MIN	MINIMUM
CLG	CEILING		
CW	COLD WATER	NC	NOISE CRITERIA
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DEG or °	DEGREE	NTS	NOT TO SCALE
DIA or Ø	DIAMETER		
DB	DRY BULB	OSA	OUTSIDE AIR
		PD	PRESSURE DROP
EA	EXHAUST AIR	PH or Ø	PHASE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
EER	ENERGY EFFICIENCY RATIO		
ESP	EXTERNAL STATIC PRESSURE		
EWT	ENTERING WATER TEMPERATURE	RA	RETURN AIR
		RPM	REVOLUTIONS PER MINUTE
FCO	FLOOR CLEANOUT	RTU	ROOFTOP UNIT
FD	FIRE DAMPER		
FLA	FULL LOAD AMPS	SA	SUPPLY AIR
FLR	FLOOR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FPM	FEET PER MINUTE	SFD	COMBINATION SMOKE/FIRE DAMPER
FT	FEET	SP	STATIC PRESSURE
		SYM	SYMBOL
GA	GAUGE		
GCO	GRADE CLEANOUT	T & P	TEMPERATURE AND PRESSURE
GPM	WATER FLOW RATE (GALLONS PER MINUTE)	TEMP	TEMPERATURE
		TYP	TYPICAL
HC	HEATING COIL		
HP	HORSE POWER	UMC	UNIFORM MECHANICAL CODE
HVAC	HEATING, VENTILATING, AIR CONDITIONING	UPC	UNIFORM PLUMBING CODE
HW	HOT WATER	URL	URINAL
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY	VTR	VENT THROUGH ROOF
		V	VOLTS
IBC	INTERNATIONAL BUILDING CODE		
IEEC	INTERNATIONAL ENERGY CONSERVATION CODE	W/	WITH
IFC	INTERNATIONAL FIRE CODE	WB	WET-BULB
IFGC	INTERNATIONAL FUEL GAS CODE	WC	WATER CLOSET
IMC	INTERNATIONAL MECHANICAL CODE	WCO	WALL CLEANOUT
IPC	INTERNATIONAL PLUMBING CODE	WH	WATER HEATER
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

SECTION 408.2.5 DOCUMENTATION REQUIREMENTS

IT SHALL BE THE COMMISSIONING AGENT'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

A. AS-BUILT DRAWINGS - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.
A.1. AS BUILT DRAWINGS TO BE FURNISHED TO THE COMMISSIONING AGENT BY THE MECHANICAL CONTRACTOR.

B. OPERATING AND MAINTENANCE MANUALS - MANUALS SHALL INCLUDE THE FOLLOWING:

1. SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.
2. MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAME AND ADDRESS AND PHONE NUMBER OF OF AT LEAST ONE (1) SERVICE PROVIDED.
4. MECHANICAL CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
5. A NARRATIVE ON HOW EACH MECHANICAL SYSTEM IN INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C. SYSTEM BALANCE REPORT - REPORT SHALL BE IN COMPLIANCE WITH IECC 408.2.2 AND INCLUDE THE FOLLOWING:

1. ALL AIR SYSTEMS BALANCED. THIS SHALL INCLUDE ALL AIR OUTLETS. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH IMC CHAPTER 6. AND IECC SECTION C408.2.2
2. ALL HYDRONIC SYSTEMS BALANCED. THIS SHALL INCLUDE ALL HYDRONIC BALANCING VALVES. EACH SYSTEM SHALL BE PROPERLY BALANCED TO MINIMIZE THROTTLING LOSSES, AND THEN THE PUMP IMPELLER SHALL BE TRIMMED OR PUMP SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. HYDRONIC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH IMC CHAPTER 6. AND IECC SECTION C408.2.2.2.

D. FINAL COMMISSIONING REPORT - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL COMMISSIONING REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

1. LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
2. RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
3. LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
4. LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.

SECTION 408.2.1 COMMISSIONING REQUIREMENTS

PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL (OR OTHERWISE APPROVED INDIVIDUAL) SHALL PROVIDE EVIDENCE OF THE MECHANICAL SYSTEMS COMMISSIONING AND COMPLETION IN ACCORDANCE WITH THE BELOW NOTED REQUIREMENTS:

A. COMMISSIONING PLAN - A COMMISSIONING PLAN SHALL BE DEVELOPED BY A REGISTERED DESIGN PROFESSIONAL (OR OTHERWISE APPROVED INDIVIDUAL) AND SHALL INCLUDE THE FOLLOWING:

1. A NARRATIVE OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF THE COMMISSIONING PROCESS,INCLUDING THE NECESSARY INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES IN THE COMMISSIONING PROCESS DURING EACH PHASE.
2. A LISTING OF THE MECHANICAL EQUIPMENT, APPLIANCE, OR SYSTEMS INTENDED TO BE COMMISSIONED ALONG WITH AN EQUIPMENT SPECIFIC NARRATIVE ON THE TESTS FOR EACH SPECIFIC MECHANICAL EQUIPMENT, APPLIANCE, OR SYSTEM.
3. A LISTING OF THE FUNCTIONS TO BE TESTED ON EACH MECHANICAL EQUIPMENT, APPLIANCE, OR SYSTEM. FUNCTIONAL TESTING SHALL INCLUDE COMPLETE CALIBRATION ON ALL COMPONENTS, CONFIRMATION OF ALL APPLICABLE MODES OF OPERATION INCLUDING BUT NOT LIMITED TO HEATING, COOLING, VENTILATION, AND ECONOMIZER.
4. CONDITIONS UNDER WHICH THE ABOVE NOTED TESTS ARE TO BE PREFORMED. IF CLIMATE CONDITIONS PROHIBIT THE FUNCTIONAL TESTING OF CERTAIN MODES OF OPERATIONS, THEN THOSE SPECIFIC TESTS MAY BE POSTPONED UNTIL SUCH CLIMATE CONDITIONS ALLOW FOR CORRESPONDING TESTS.
5. MEASURABLE PASS/FAIL CRITERIA FOR ALL FUNCTIONAL TESTS.

B. SYSTEM ADJUSTING AND BALANCING - THE ENTIRE MECHANICAL SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND THE FOLLOWING:

1. ALL AIR SYSTEMS BALANCED. THIS SHALL INCLUDE ALL AIR OUTLETS AND ZONE TERMINAL DEVICE. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH IMC CHAPTER 6. AND IECC SECTION C408.2.2.1.
2. ALL HYDRONIC SYSTEMS BALANCED. THIS SHALL INCLUDE ALL HYDRONIC BALANCING VALVES. EACH SYSTEM SHALL BE PROPERLY BALANCED TO MINIMIZE THROTTLING LOSSES, AND THEN THE PUMP IMPELLER SHALL BE TRIMMED OR PUMP SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. HYDRONIC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH IMC CHAPTER 6. AND IECC SECTION C408.2.2.2.
3. ALL CONTROLS SHALL BE CALIBRATED AND ADJUSTED TO ENSURE PROPER SEQUENCE OF OPERATIONS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.
4. ALL ECONOMIZERS SHALL BE ADJUSTED TO OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

C. PRELIMINARY COMMISSIONING REPORT - A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REGISTERED DESIGN PROFESSIONAL (OR OTHERWISE APPROVED INDIVIDUAL) AND PROVIDED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

1. LIST OF DEFICIENCIES FOUND DURING THE TESTING REQUIRED BY THE COMMISSIONING PLAN THAT HAVE NOT YET BEEN CORRECTED AT THE TIME OF THE REPORT.
2. LIST OF EQUIPMENT OR SYSTEMS NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO UNFAVORABLE CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT AND SYSTEMS WILL BE FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW. TESTING IS DEFERRED UNTIL CLIMATE CONDITIONS ALLOW PROPER TESTING.
3. DESCRIPTION OF NECESSARY CLIMATE CONDITIONS REQUIRED FOR FUNCTIONAL TESTING OF DEFERRED EQUIPMENT AND OR SYSTEMS.

* THE BUILDING, OR PORTION THEREOF, SHALL NOT PASS THE FINAL MECHANICAL INSPECTION UNTIL SUCH TIME AS THE CODE OFFICIAL HAS RECEIVED A LETTER OF TRANSMITTAL FROM THE BUILDING OWNER ACKNOWLEDGING THAT THE BUILDING OWNER HAS RECEIVED THE PRELIMINARY COMMISSIONING REPORT.THE CODE OFFICIAL MAY REQUIRE A COPY OF THE PRELIMINARY REPORT FOR REVIEW.

MECHANICAL AND PLUMBING DRAWINGS LEGEND

	FLEXIBLE DUCTWORK		THREE WAY CONTROL VALVE
	DUCTWORK		TWO WAY CONTROL VALVE
	DUCTWORK BREAK		PRESSURE REDUCING VALVE
	DUCTWORK OR PIPING RISE		GATE VALVE
	CONCENTRIC SQUARE TO ROUND TRANSITION		REDUCER
M	MOTORIZED DAMPER		GLOBE VALVE
	MANUAL VOLUME DAMPER		BALL VALVE
AIRFLOW	SPIN-IN FITTING W/ AIR EXTRACTOR AND HAND DAMPER		BUTTERFLY VALVE
AIRFLOW	HIGH EFFICIENCY FITTING W/ HAND DAMPER		BALANCE VALVE
	SWITCH		CHECK VALVE
T	THERMOSTAT	FCO	FLOOR CLEANOUT
H	HUMIDISTAT	WCO	WALL CLEANOUT
S	TEMPERATURE SENSOR	GCO	GRADE CLEANOUT
CO_2	CARBON DIOXIDE SENSOR		WATER HAMMER ARRESTOR
CO	CARBON MONOXIDE SENSOR		FLOOR DRAIN
SD	DUCT SMOKE DETECTOR		FLOOR SINK
	COMBINATION SMOKE/FIRE DAMPER		GAS PRESSURE REGULATOR W/ GAS COCK
	FIRE DAMPER		PRESSURE RELIEF VALVE
	SMOKE DAMPER		VENT-THROUGH-ROOF
-- #	EQUIPMENT CALLOUT		VENT
	TURNING VANES	SD	STORM DRAIN
	INTAKE OR EXHAUST	RD	ROOF DRAIN LINE
	DIRECTION OF AIRFLOW	OD	OVERFLOW DRAIN LINE
X'-X" CFM X"Ø	SUPPLY DIFFUSER	CD	CONDENSATE DRAIN LINE
R-X X"Ø	RETURN GRILLE		DOMESTIC COLD WATER (CW)
R-X CFM X"Ø	EXHAUST GRILLE		DOMESTIC HOT WATER (HW)
	CEILING EXHAUST FAN		DOMESTIC HOT WATER RETURN (HWR)
	TEMPERATURE GAUGE	TW	TEMPERED WATER (TW)
	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)	MPG	MEDIUM PRESSURE NATURAL GAS
TS	TEMPERATURE SENSOR (DUCT OR PIPING)	F	FIRE SPRINKLER LINE
FS	FLOW SWITCH	GWS	GEOTHERMAL WATER SUPPLY
	STAINLESS STEEL BRAIDED FLEX CONNECTION	GWR	GEOTHERMAL WATER RETURN
	ELASTOMETRIC FLEX CONNECTOR	CS	CONDENSER WATER SUPPLY
	SUCTION DIFFUSER	CR	CONDENSER WATER RETURN
	Y TYPE STRAINER (1-1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE)	HWS	HEATING WATER SUPPLY
	FLOW DIRECTION	HWR	HEATING WATER RETURN
(F)	FUTURE	L	LIQUID REFRIGERANT LINE
(N)	NEW	S	SUCTION REFRIGERANT LINE
	REDUCED PRESSURE BACKFLOW PREVENTER		SLOPE PIPE IN DIRECTION OF ARROW
	DOUBLE CHECK BACKFLOW PREVENTER		PIPE ANCHOR
	UNION		PIPE GUIDE
	AIR VENT		CAP
	TRIPLE DUTY VALVE		
NOTE:	THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

ENERGY CODE COMPLIANCE

A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

B. MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:

1. R-6: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).

2. R-12: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).

TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS:

1. FIBERGLASS DUCT WRAP: R-6, R-12.

2. FIBERGLASS DUCT LINER: R-6, R-12.

C. CONTRACTOR SHALL VERIFY THE R-VALUES OF THE ACTUAL INSULATION USED WITH THE MANUFACTURER. R-VALUES SHALL BE INSTALLED VALUES.

D. WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.

E. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.

F. MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION SHALL BE AS FOLLOWS:

FLUID	NOMINAL PIPE DIAMETER			
	1/2" TO < 1-1/2"	1-1/2" TO < 4"	4" AND ABOVE	
1. HEATING WATER	1-1/2"	2"	2"	
2. REFRIGERANT	SEE SPECIFICATIONS			

THE ABOVE INSULATION IS BASED ON HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.

G. DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.

H. DOMESTIC WATER HEATERS WHICH ARE NOT PROVIDED WITH INTEGRAL HEAT TRAPS AND SERVE NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AT THE WATER HEATER.

I. DOMESTIC HOT WATER SYSTEMS WITH RECIRCULATION PUMPS OR ELECTRIC HEAT TRACE SHALL BE CONTROLLED WITH 7-DAY TIME CLOCKS.

J. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:

1. EQUIPMENT CAPACITY (INPUT & OUTPUT).

2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.

3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.

4. CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING COMMENT ON DDC SYSTEMS.

5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL APPLICABLE LOCAL AND STATE CODES.
2. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.
3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
5. MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
6. THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS PRIOR TO ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
7. SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
8. DOMESTIC WATER SERVICE IS PROVIDED WITH A DOUBLE-CHECK BACKFLOW PREVENTER ASSEMBLY.
9. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
10. ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
11. RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURES CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
12. PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
13. PAINT VTR'S, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
14. INSULATED FLEXIBLE DUCTWORK--IN LENGTHS OF 6'-0" OR LESS--MAY BE USED FOR RUNOUTS TO AIR TERMINALS.
15. MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
16. LOCATE ACCESS HATCHCES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING.
17. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.

project number: 21-422

Revisions Description	Date
#	

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

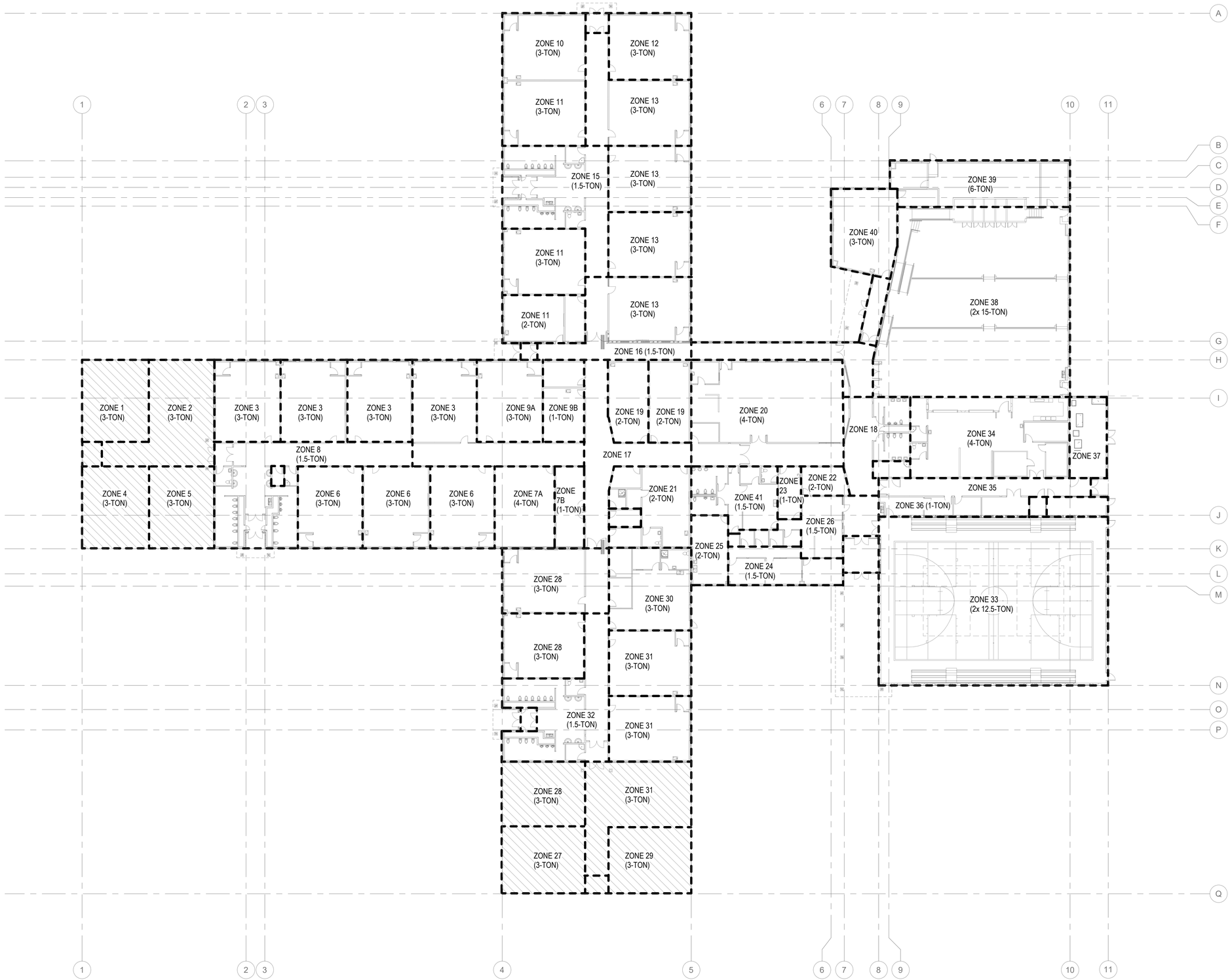
DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M0.0

MECHANICAL COVER SHEET



1 MECHANICAL ZONING PLAN
1" = 20'-0"

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
M0.1
MECHANICAL ZONING PLAN

2018 IECC BUILDING COMPLIANCE REPORT - SECTION C407 TOTAL BUILDING PERFORMANCE

MUSGROVE ENGINEERING, P.A.

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PROFESSIONAL ENGINEER LICENSED 16683 2/15/2022 STATE OF IDAHO CHRISTOPHER DYKE

Jerome Elementary
Energy Code Analysis
02-15-2022

MUSGROVE ENGINEERING, P.A.
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OVER 45 YEARS OF ENGINEERING EXCELLENCE

Introduction

The purpose of the following study was to determine if the proposed building design for the Jerome Elementary School building meets or exceeds 2018 IEEC code requirements for a commercial building. Using the performance-based compliance method it was determined that the building exceeds code requirements by **38.6%** in energy savings and **37.2%** in cost savings. This report serves as a substitute for the mechanical, electrical, and envelope Comcheck.

Code Baseline Model

The baseline building was built using eQUEST (v3.65), a full building annual simulation program. The 2018 International Energy Conservation Code (IECC) Section C407 was used to build the baseline model using code inputs. Water-source heat pumps at each zone were used as the baseline HVAC system type. Each system includes a supply fan, heat pump coil, space thermostat, and isolation valve. The plant system contains two equally sized gas-fired natural draft boilers, a closed-circuit evaporative fluid cooler with a two-speed fan, and a variable speed loop pump. Table-1 shows the inputs used in the baseline model for envelope, lighting, HVAC, and the domestic hot water heaters. Figure-1 illustrates a screenshot of the energy model rendering.

Table 1 Model Input Comparison

Component	Unit	Model Version	
		Code Baseline	Proposed
Roof	R-value	R-30 c.i.	R-30 c.i.
Above Grade Walls	R-value	R-13 + R-7.5 c.i. & R-11.4 c.i.	R-14 & R-20
Foundation	R-value	R-10 for 24 in.	R-10 for 24 in.
Window	U-value	0.38	0.29
	SHGC	0.40	0.35
*Lights	Watts/ft²	*0.81	*0.41
Water Heater	Efficiency	Electric	Electric
HVAC System Type	-	WSHP	GWHP
Cooling Efficiency	EIR	0.2402-0.2635 EIR	0.1177-0.2332 EIR
Heating Efficiency	Efficiency	80%	0.2242 EIR & 80%
Exterior Lights	kW	7.15	2.97

*Building average

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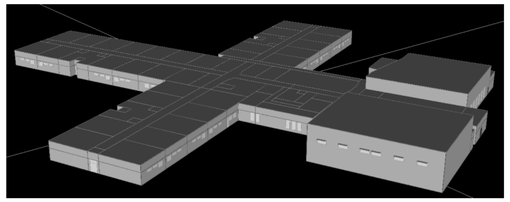

Figure 1 – Building Energy Model Screenshot

Proposed Model

The proposed building includes ground water-source heat pumps for the majority of the zones. A ground loop heat exchanger is used to provide heat and reject heat. Variable primary and secondary pumps are used for water distribution. The gymnasium and cafetorium utilize high-efficient packaged rooftop units. All rooftop units include economizers for free cooling, a supply fan, a return fan, a carbon dioxide sensor for demand-controlled ventilation, an electric direct expansion cooling coil, and a gas-fired heating coil. Electric and gas-fired water heaters are used for the domestic hot water system. The server rooms include high-efficient ductless split systems with remote condensing units. The building also includes a complete digital control system associated with the HVAC and lighting systems. The proposed energy model demonstrated energy and cost savings of **38.6%** and **37.2%,** respectively. The commercial rates from Idaho Power and Intermountain Gas utility companies were used to model the electricity & natural gas tariff. Figure-2, seen below, compares the annual energy consumption breakdown for each model. Figure-3, seen below, outlines the comparison between operational costs for each model.

Summary

The proposed building meets and exceeds IECC 2015 by **38.6%** energy savings and **37.2%** cost savings. See the attached files for reports from eQUEST for inputs.

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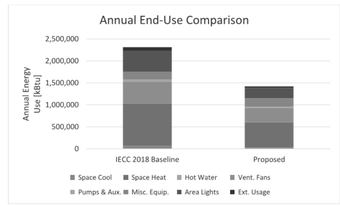

Figure 2 - Annual Energy Consumption Comparison

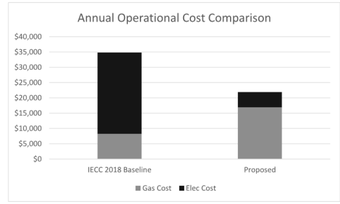

Figure 3 - Annual Operational Cost Comparison

HEATING AND COOLING LOAD SUMMARY

MUSGROVE ENGINEERING, PA
234 S. WHISPERWOOD WAY BOISE, IDAHO 83709

Zone Summary

PROJECT: *Jerome Elementary School* | Design Conditions | Winter | 7.6 | Summer | 92.2
COMPUTED BY: *CD* | DATE: 14-Feb-22 | CHK BY: BC

	Zone Reference	FLOOR SQ. FT.	Heating Load BTUH	Heating Load kW	Sensible Cooling Load BTUH	Total Cooling Load BTUH	NOMINAL TON (12000-BTUH/TON)	SQ. FT PER NOMINAL TON	NUMBER OF PEOPLE	OSA	EXHAUST	Unit Selection Size TONS
1	4th Grade Classroom A102	933	30,597	9	25,102	32,857	2.7	340.8	33	552	0	3-TON WSHP
2	4th Grade Classroom A104	933	26,766	8	22,944	30,698	2.6	364.7	33	552	0	3-TON WSHP
3	Classroom A106/A112/A114/A116	933	23,982	7	19,467	25,078	2.1	446.4	24	440	0	2.5-TON WSHP
4	4th Grade Classroom A103	933	30,597	9	27,829	35,583	3.0	314.6	33	552	0	3-TON WSHP
5	4th Grade Classroom A105	933	26,766	8	25,592	33,346	2.8	335.8	33	552	0	3-TON WSHP
6	Classroom A113/A115/A117	933	26,766	8	25,592	33,346	2.8	335.8	33	552	0	3-TON WSHP
7	Computer Lab A119/Couns. A122/Testing A123	1273	28,248	8	45,980	54,412	4.5	280.7	36	640	0	4 & 1-TON WSHP
8	Corridor A101	2093	18,903	6	11,490	11,490	1.0	2185.9	0	157	0	WSHP
9	Classroom A118/ESL/Reading	1526	32,890	10	29,683	37,867	3.2	483.6	35	640	0	3 & 1.5-TON WSHP
10	6th Grade Classroom B106	934	30,557	9	25,826	33,581	2.8	333.8	33	553	0	3-TON WSHP
11	5th/6th Grade Classroom B108/B116	937	26,820	8	24,843	32,596	2.7	344.9	33	553	0	3-TON WSHP
12	6th Grade Classroom B107	937	30,597	9	29,245	36,999	3.1	303.9	33	553	0	3.5-TON WSHP
13	Classroom B109/B115/B117/B119	937	26,820	8	23,826	31,580	2.6	356.1	33	553	0	3-TON WSHP
14	Talented & Gifted B121/Storage B118	675	17,107	5	20,826	23,848	2.0	339.6	13	261	0	2-TON WSHP
15	Corridor B101	1444	13,042	4	7,927	7,927	0.7	2185.9	0	108	0	WSHP
16	Corridor C119	721	6,512	2	3,958	3,958	0.3	2185.9	0	54	0	1-TON WSHP
17	Corridor C120	1083	9,781	3	5,945	5,945	0.5	2185.9	0	81	0	1-TON WSHP
18	Corridor C116	1563	14,116	4	8,581	8,581	0.7	2185.9	0	117	0	1-TON WSHP
19	Resource C121/C122	1132	27,614	8	26,367	35,766	3.0	379.8	40	670	0	(2) 2-TON WSHP
20	Library C118/Workroom/Storage	2229	33,008	10	36,122	39,362	3.3	679.5	21	456	0	4-TON WSHP
21	Classroom C123/Storage C125	846	19,358	6	16,863	22,962	1.9	442.1	26	449	0	2.5-TON WSHP
22	Conference C103	229	3,924	1	14,073	16,974	1.4	161.9	12	92	0	1.5-TON WSHP
23	Nurse C104/Storage C105a/T.O. Rooms	383	3,809	1	3,423	3,803	0.3	1208.5	1.665	43	0	1-TON WSHP
24	Principal C107/Office C108/C110	735	13,336	4	12,256	12,910	1.1	683.2	3	118	0	1-TON WSHP
25	Faculty C113	466	9,910	3	17,182	20,556	1.7	272.0	14	122	0	2.5-TON WSHP
26	Reception C102	435	6,094	2	8,327	11,702	1.0	446.1	14	120	0	2.5-TON WSHP
27	Kindergarten Classroom D102	932	27,751	8	23,034	28,645	2.4	390.4	24	440	0	2.5-TON WSHP
28	Classroom D104/D112/D114	932	23,947	7	20,570	26,181	2.2	427.2	24	440	0	2.5-TON WSHP
29	Kindergarten Classroom D103	932	27,751	8	21,798	27,409	2.3	408.0	24	440	0	2.5-TON WSHP
30	Extended Resource/Storage	1063	25,387	7	21,288	27,131	2.3	470.2	25	460	0	3-TON WSHP
31	Classroom D105/D111/D113	932	23,947	7	19,562	25,173	2.1	444.3	24	440	0	3-TON WSHP
32	Corridor D101	1521	13,737	4	8,350	8,350	0.7	2185.9	0	114	0	WSHP
33	Gym	6782	358,919	105	205,230	291,200	24.3	279.5	320	2713	0	(2) 12.5-TON RTU
34	Kitchen/Office/Storage	1135	19,422	6	39,963	44,935	3.7	303.1	19	338	0	4-TON WSHP
35	Corridor E101	648	5,852	2	3,557	3,557	0.3	2185.9	0	49	0	WSHP
36	PE Storage/PE Office/Cust Office/Receiving	538	5,786	2	5,614	6,298	0.5	1025.0	3	78	0	1.5-TON WSHP
37	Mechanical E111	526	11,559	3	4,747	4,747	0.4	1329.7	0	0	0	ELEC HEAT
38	Cafetorium	6077	476,304	140	256,670	358,095	29.8	203.6	426	5361	0	(2) 10-TON RTU
39	Stage/Storage	1291	43,715	13	34,910	41,083	3.4	377.1	59	858	0	4-TON WSHP
40	Music Classroom	928	30,616	9	25,999	35,621	3.0	312.6	33	482	0	3-TON WSHP
41	Workroom C105/Corridor C102a	492	6,314	2	9,305	9,766	0.8	604.6	2	46	0	1.5-TON WSHP
	Total Loads =	**50,905**	**1,638,929**	**480**	**1,219,867**	**1,581,920**	**131.8**	**386**	**1520**	**21800**	**0**	

Energy Compliance Calculations *(Not Equipment Schedule)*
Equipment is selected based on next available size

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

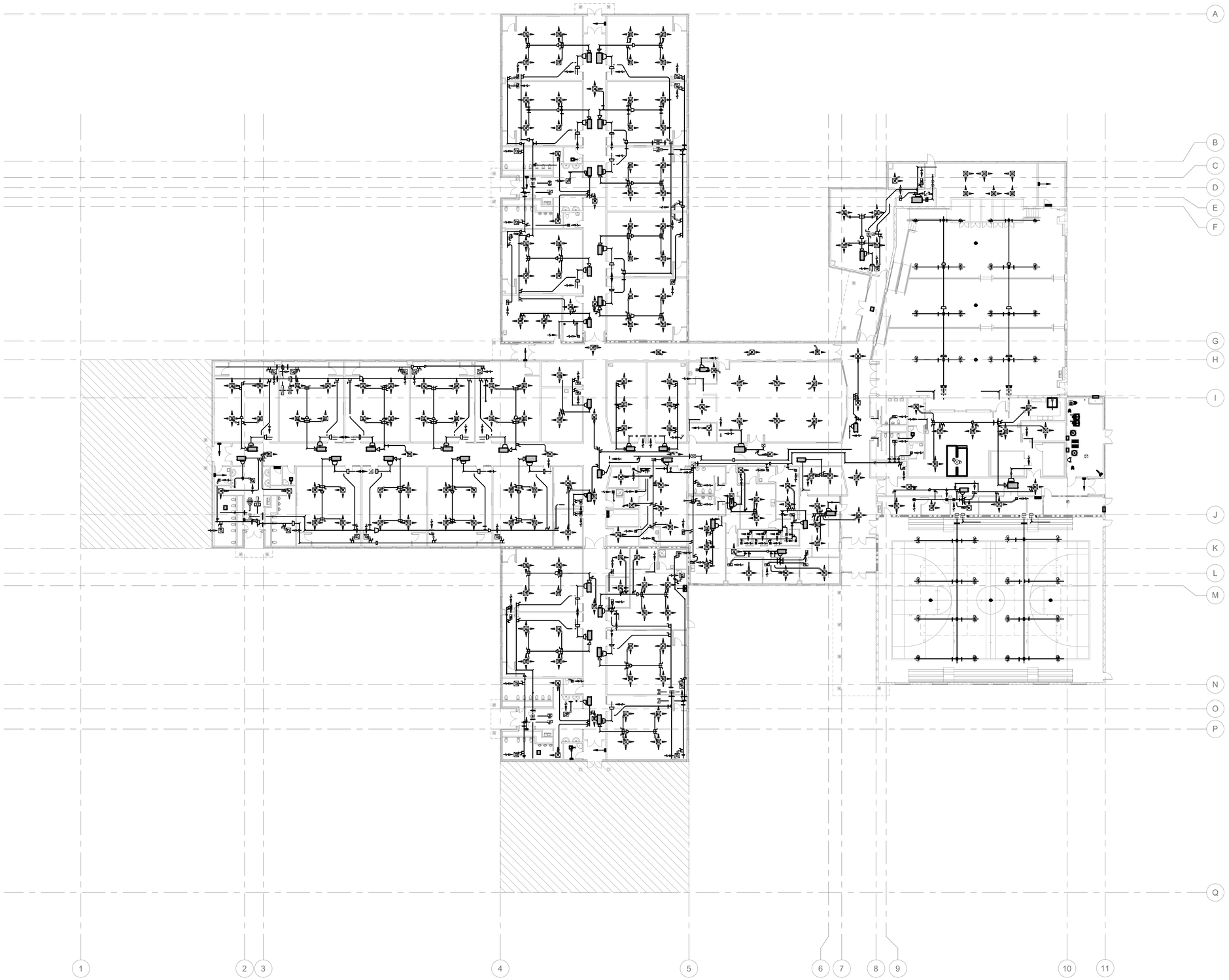
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

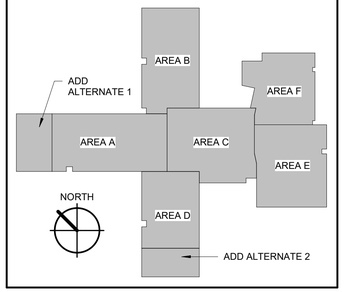
DRAWING NO.:

M0.2
PERFORMANCE BASED BUILDING COMPLIANCE



1 MECHANICAL OVERALL PLAN
1" = 20'-0"

Keyed Plan



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CHRISTOPHER DYKE

MUSGROVE
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N. 100 E. Jerome, Idaho

DATE: 02/11/2022
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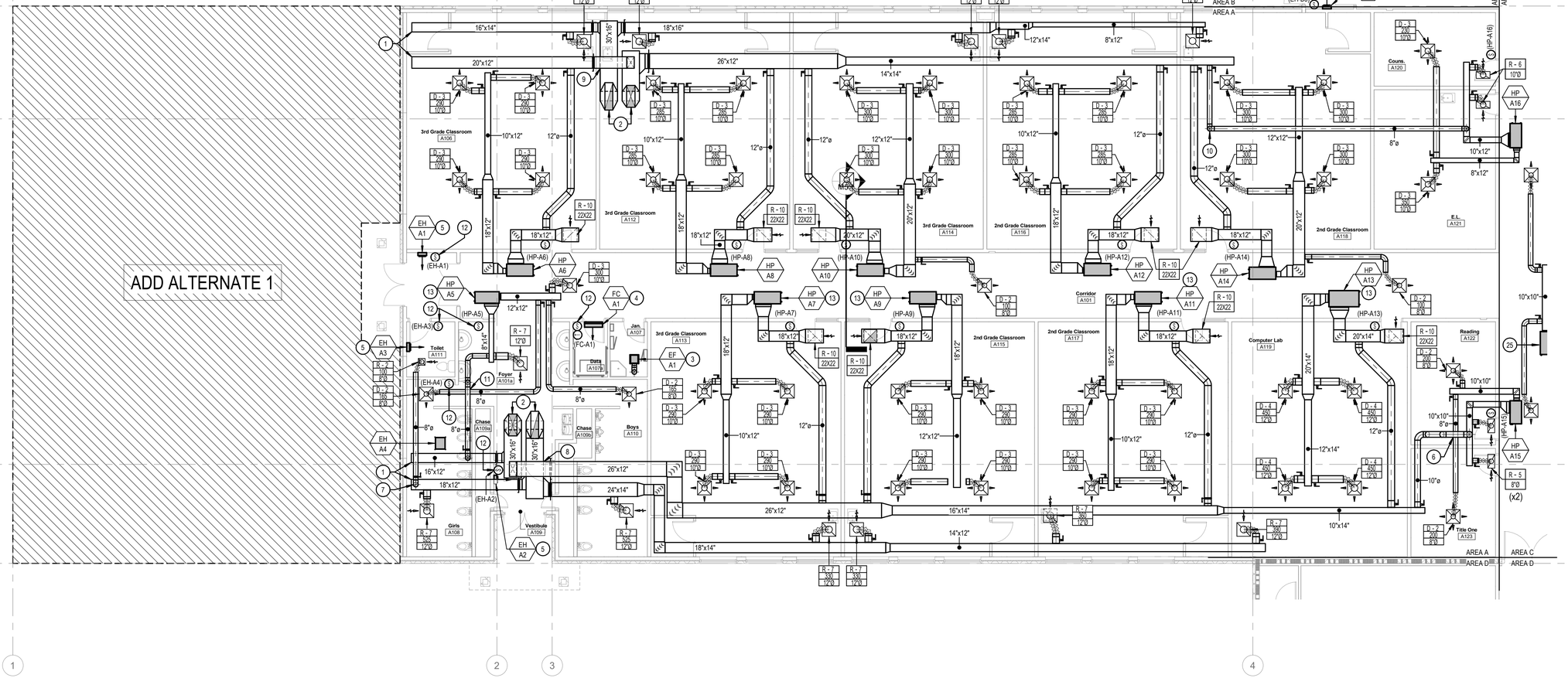
DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M1.0
OVERALL MECHANICAL PLAN



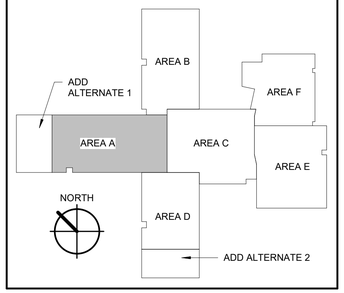
1 HVAC FLOOR PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. CAP DUCTWORK FOR FUTURE EXPANSION.
2. ROUTE 30"X16" OA & EA DUCTWORK TO ROOF. TRANSITION THROUGH STRUCTURE AS REQUIRED. SEE SHEET M4.1 FOR CONTINUATION.
3. CEILING CABINET EXHAUST FAN WITH HANGING VIBRATION ISOLATORS AND FLEXIBLE CONNECTION AT OUTLET. ROUTE 8" EXHAUST DUCT TO ROOF THROUGH STRUCTURE. SEE SHEET M4.1 FOR CONTNIUATION.
4. MOUNT DUCTLESS SPLIT FAN COIL ABOVE DOOR. ROUTE REFRIGERANT LINES FROM ROOF ABOVE. SEE SHEET M4.1 FOR CONTINUATION.
5. RECESSED ELECTRIC HEATER MOUNTED 24" A.F.F.
6. ROUTE 10" EA DUCT OVER 8" DUCT THROUGH CEILING JOISTS. TAP INTO TOP OF RETURN DUCTWORK.
7. ROUTE 8" EA DUCT ABOVE 16"X12" OA DUCT THROUGH CEILING JOISTS.
8. ROUTE 26"X12" SUPPLY DUCT ABOVE EXHAUST DUCT. STAY BELOW CEILING JOISTS AS REQUIRED.
9. ROUTE 20"X12" SUPPLY DUCT ABOVE 30"X16" EXHAUST DUCT. STAY BELOW CEILING JOISTS AS REQUIRED.
10. ROUTE 8" OA DUCT UP INTO CEILING JOISTS. ROUTE ABOVE 12"X12" SUPPLY DUCT THROUGH JOIST WEBBING.
11. ROUTE 8" OA DUCT ABOVE 8" SUPPLY DUCT THROUGH CEILING JOISTS.
12. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
13. AVOID CABLE TRAY AND MAINTAIN CLEARANCE REQUIREMENTS FOR HEAT PUMP. COORDINATE FINAL LOCATION WITH ELECTRICIAN PRIOR TO INSTALLATION.

Keyed Plan



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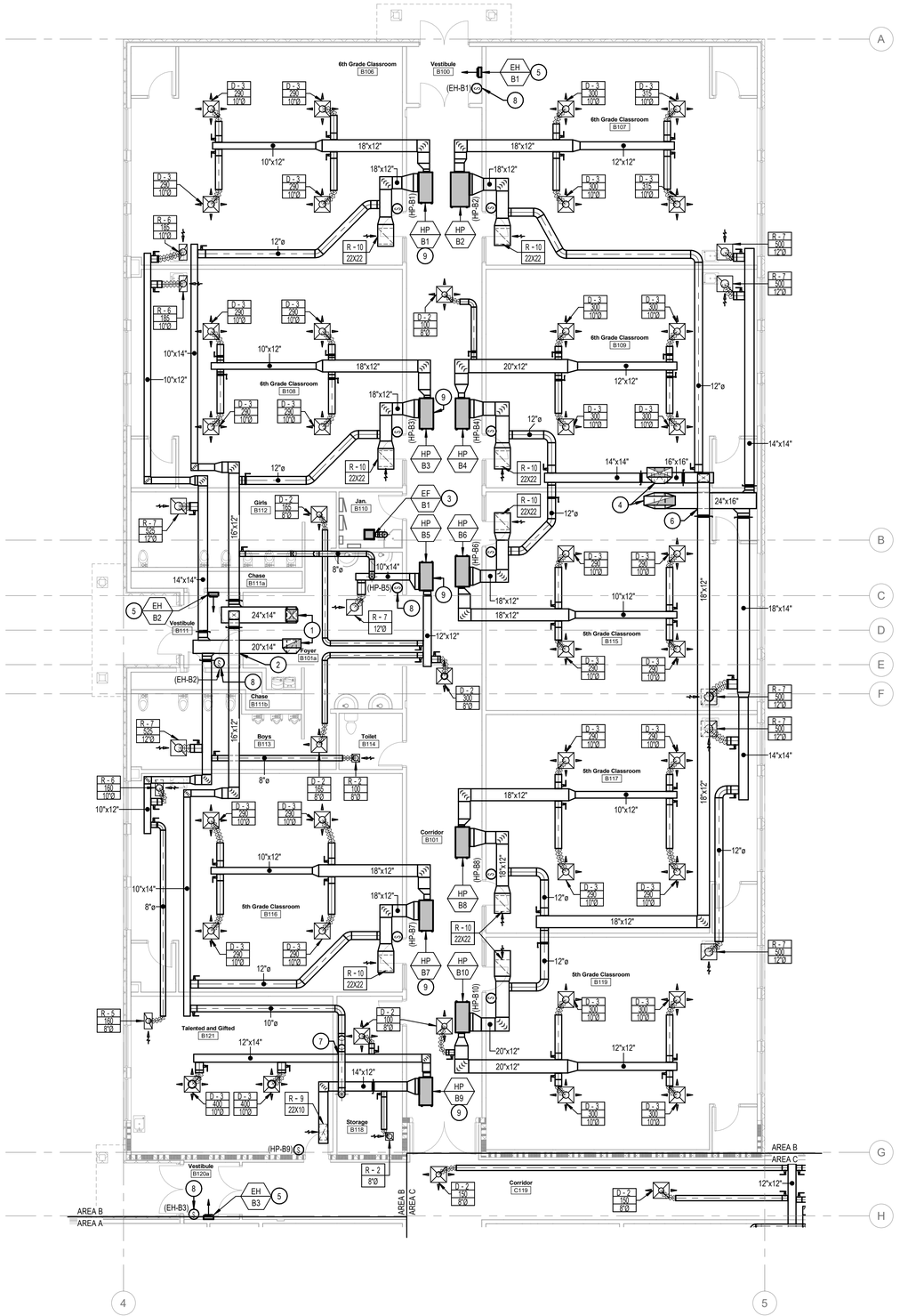
BID SET

DRAWING NO.:

M2.1
HVAC FLOOR PLAN – AREA A



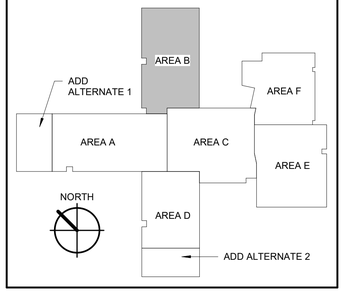
1 HVAC FLOOR PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 20"X14" OA & EA DUCTWORK TO ROOF. TRANSITION THROUGH STRUCTURE AS REQUIRED. SEE SHEET M4.2 FOR CONTINUATION.
2. ROUTE 16"X12" OA DUCT ABOVE EA DUCT. STAY BELOW CEILING JOISTS AS REQUIRED.
3. CEILING CABINET EXHAUST FAN WITH HANGING VIBRATION ISOLATORS AND FLEXIBLE CONNECTION AT OUTLET. ROUTE 8" EXHAUST DUCT TO ROOF THROUGH STRUCTURE. SEE SHEET M4.2 FOR CONTNIUATION.
4. ROUTE 24"X16" OA & EA DUCTWORK TO ROOF. TRANSITION THROUGH STRUCTURE AS REQUIRED. SEE SHEET M4.2 FOR CONTINUATION.
5. RECESSED ELECTRIC HEATER MOUNTED 24" A.F.F.
6. ROUTE 18"X12" OA DUCT ABOVE EXHAUST DUCT. STAY BELOW CEILING JOISTS AS REQUIRED.
7. ROUTE 10" OA ABOVE 12"X14" SUPPLY DUCT THROUGH JOIST WEBBING.
8. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
9. AVOID CABLE TRAY AND MAINTAIN CLEARANCE REQUIREMENTS FOR HEAT PUMP. COORDINATE FINAL LOCATION WITH ELECTRICIAN PRIOR TO INSTALLATION.

Keyed Plan



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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

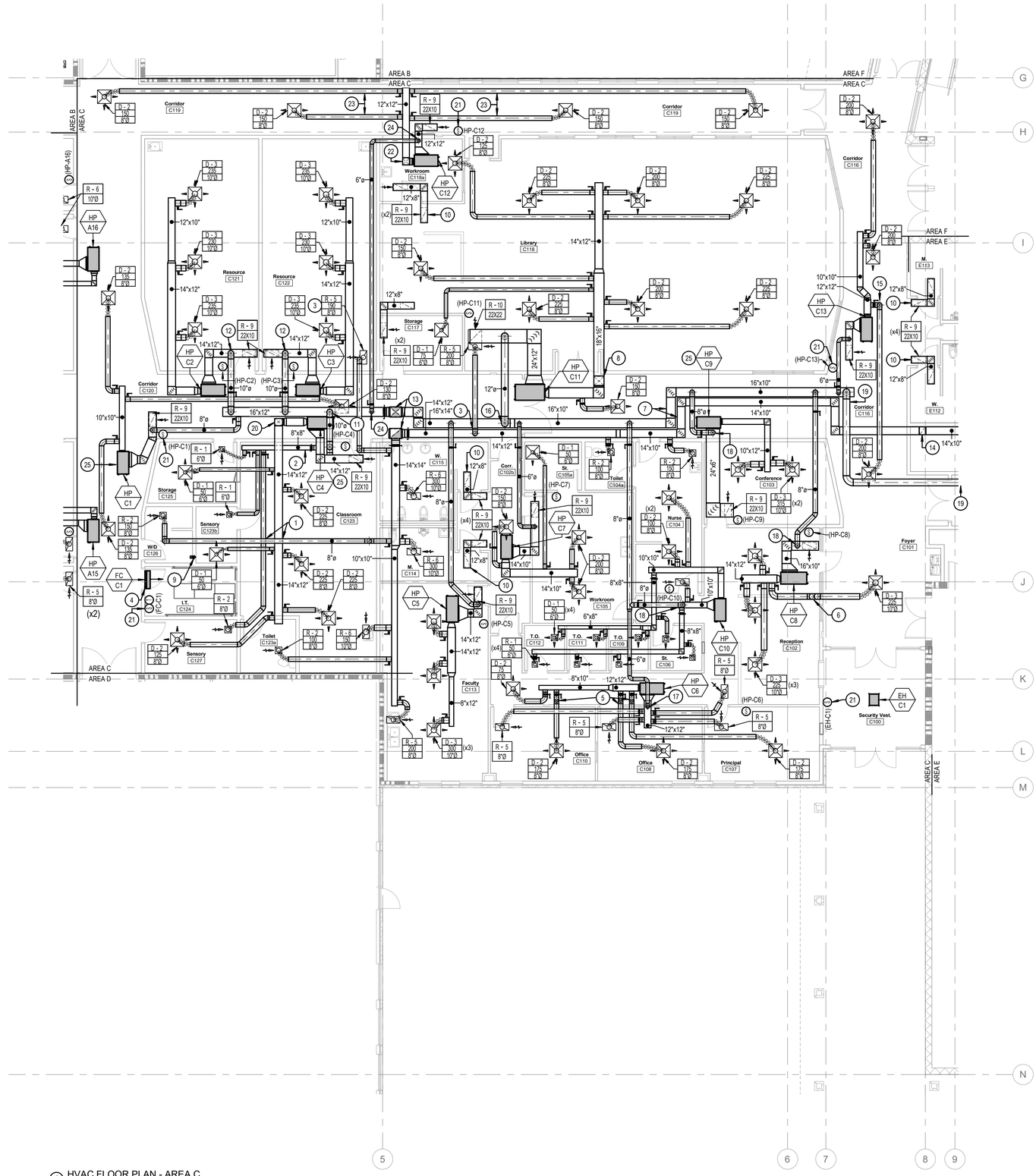
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M2.2
HVAC FLOOR PLAN – AREA B



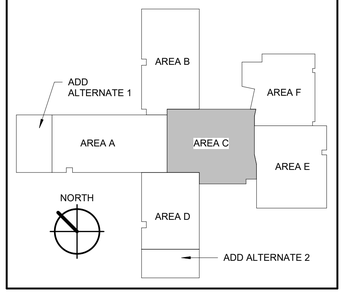
1 HVAC FLOOR PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 8" EXHAUST DUCT ABOVE 14"X12" SUPPLY AND 8" RETURN DUCT THROUGH JOIST SPACE.
2. ROUTE 8"X8" RETURN DUCT BELOW 14"X12" SUPPLY DUCT.
3. ROUTE 8" EXHAUST DUCT ABOVE THROUGH TRUSSES.
4. MOUNT DUCTLESS SPLIT FAN COIL ABOVE DOOR. ROUTE REFRIGERANT LINES FROM ROOF ABOVE. SEE SHEET M4.3 FOR CONTINUATION.
5. ROUTE 8" SUPPLY DUCT BENEATH 8" RETURN DUCT.
6. ROUTE 10" SUPPLY DUCT UP INTO CEILING SPACE OF FOYER C101.
7. ROUTE 16"X10" OA DUCT AND 14"X10" EXHAUST DUCT AROUND HP-C9 TO MAINTAIN MANUFACTURER REQUIRED CLEARANCES.
8. ROUTE 18"X16" SUPPLY DUCT UP INTO JOIST SPACE.
9. ROUTE DRYER DUCT UP THROUGH WALL TO ROOF. SEE SHEET M4.3 FOR CONTINUATION. SEE DETAIL #2 ON SHEET M6.1 FOR INSTALLATION REQUIREMENTS.
10. SEE TRANSFER DUCT DETAIL #5 ON SHEET M6.6.
11. ROUTE 10" OA DUCT THROUGH JOIST SPACE DOWN INTO SIDE OF HP-C4 RETURN DUCT.
12. ROUTE 10" OA DUCT THROUGH JOISTS DOWN INTO TOP OF 14"X12" RETURN DUCT.
13. ROUTE 16"X24" OA & EA DUCT UP. TRANSITION TO 20"X18" AND ROUTE BETWEEN CEILING JOISTS. TRANSITION TO ERU-C1 CONNECTIONS AS REQUIRED.
14. ROUTE 14"X10" EA DUCT DOWN INTO CEILING SPACE OF STORAGE E102.
15. ROUTE 8" SA DUCT UP BETWEEN JOISTS.
16. ROUTE 12" OA DUCT UP INTO CEILING JOISTS AND DOWN INTO TOP OF HP-C11 24"X12" RETURN DUCT.
17. ROUTE 6" OA DUCT THROUGH JOIST WEBBING DOWN INTO 12"X12" RETURN OF HP-C6.
18. ROUTE 8" OA BETWEEN JOISTS AND DOWN INTO RETURN DUCTWORK.
19. ROUTE 12" OA DUCT UP INTO JOIST WEBBING.
20. ROUTE 14"X12" SUPPLY DUCT UP TIGHT TO BOTTOM ROOF CHORD.
21. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
22. ROUTE 12"X12" SUPPLY DUCT UP INTO JOIST SPACE.
23. ROUTE 8" SUPPLY DUCT THROUGH JOIST WEBBING.
24. ROUTE 6" OA DUCT THROUGH JOIST SPACE DOWN INTO HP-C12 RETURN DUCT.
25. AVOID CABLE TRAY AND MAINTAIN CLEARANCE REQUIREMENTS FOR HEAT PUMP. COORDINATE FINAL LOCATION WITH ELECTRICIAN PRIOR TO INSTALLATION.

Keyed Plan



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project number: 21-422

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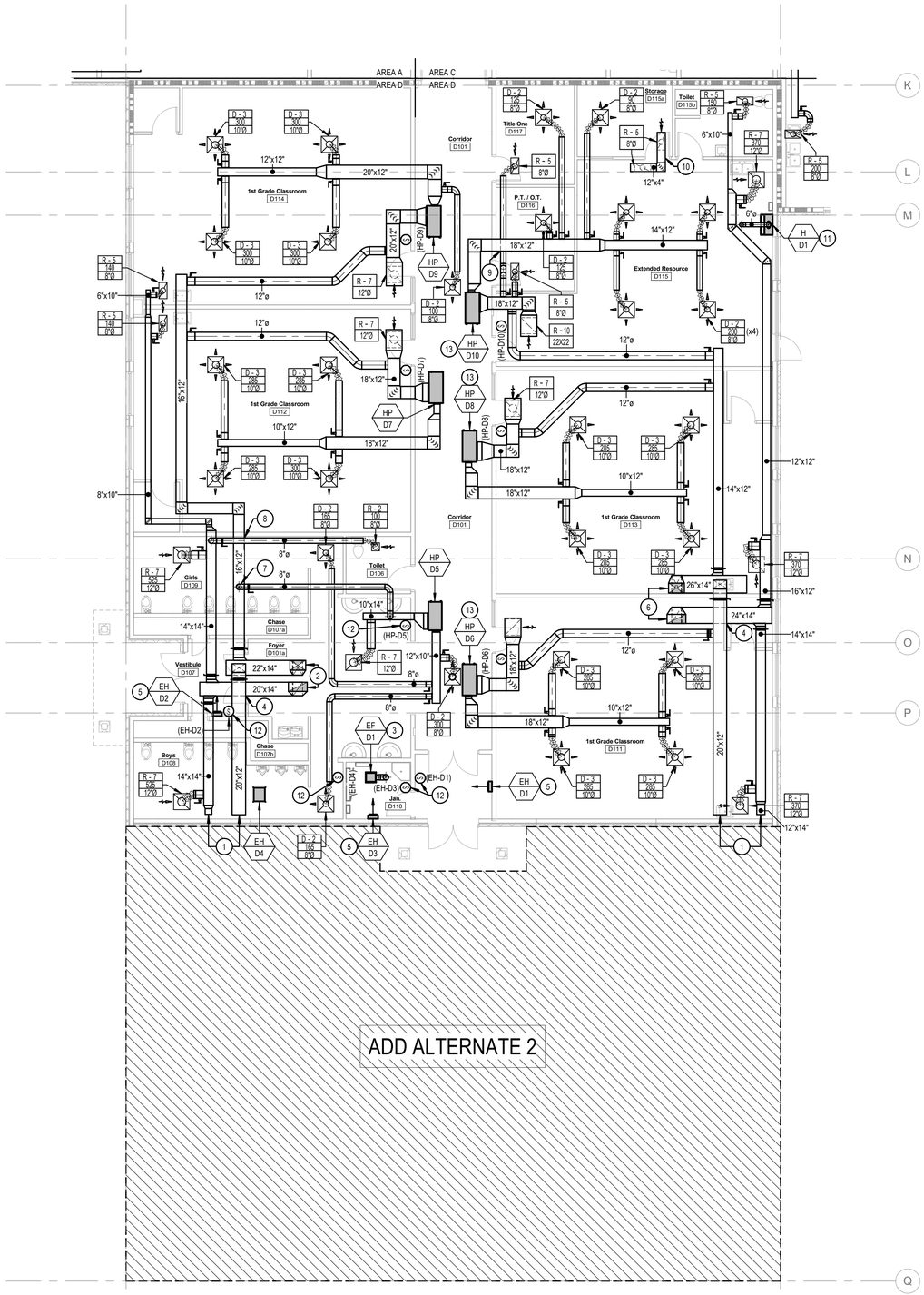
M2.3
HVAC FLOOR PLAN – AREA C

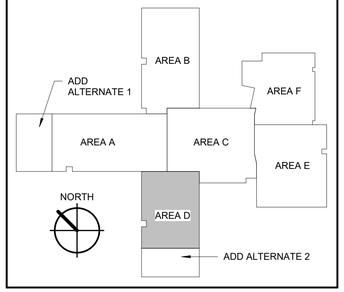


KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. CAP DUCTWORK FOR FUTURE EXPANSION.
2. ROUTE 22"X14" OA & 24"X14" EA DUCTWORK TO ROOF. TRANSITION THROUGH STRUCTURE AS REQUIRED. SEE SHEET M4.4 FOR CONTINUATION.
3. CEILING CABINET EXHAUST FAN WITH HANGING VIBRATION ISOLATORS AND FLEXIBLE CONNECTION AT OUTLET. ROUTE 8" EXHAUST DUCT TO ROOF THROUGH STRUCTURE. SEE SHEET M4.4 FOR CONTNIUATION.
4. ROUTE 20"X12" OA DUCT ABOVE EA DUCT. STAY BELOW CEILING JOISTS AS REQUIRED.
5. RECESSED ELECTRIC HEATER MOUNTED 24" A.F.F.
6. ROUTE 26"X14" OA AND 24"X14" EA DUCTWORK TO ROOF. TRANSITION THROUGH STRUCTURE AS REQUIRED. SEE SHEET M4.4 FOR CONTINUATION.
7. ROUTE 8" OA DUCT ABOVE 8" SA DUCT THROUGH CEILING JOISTS. ROUTE INTO TOP OF HP-D5 RETURN DUCT.
8. ROUTE 8" EA DUCT ABOVE 16"X12" SA DUCT THROUGH CEILING JOISTS.
9. ROUTE 8" RA DUCT BENEATH 18"X12" SA DUCT.
10. SEE TRANSFER DUCT DETAIL #5 ON SHEET M6.6.
11. UNDER CABINET RESIDENTIAL HOOD AND FIRE SUPPRESSION SYSTEM WITH EMERGENCY PULL STATION. ROUTE 6" EXHAUST OVER AND UP ABOVE CEILING THROUGH THE ROOF. SEAL AROUND PENETRATION. SEE SHEET M4.3 FOR CONTINUATION.
12. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
13. AVOID CABLE TRAY AND MAINTAIN CLEARANCE REQUIREMENTS FOR HEAT PUMP. COORDINATE FINAL LOCATION WITH ELECTRICIAN PRIOR TO INSTALLATION.

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
project number: **21-422**

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Jerome School District No. 261
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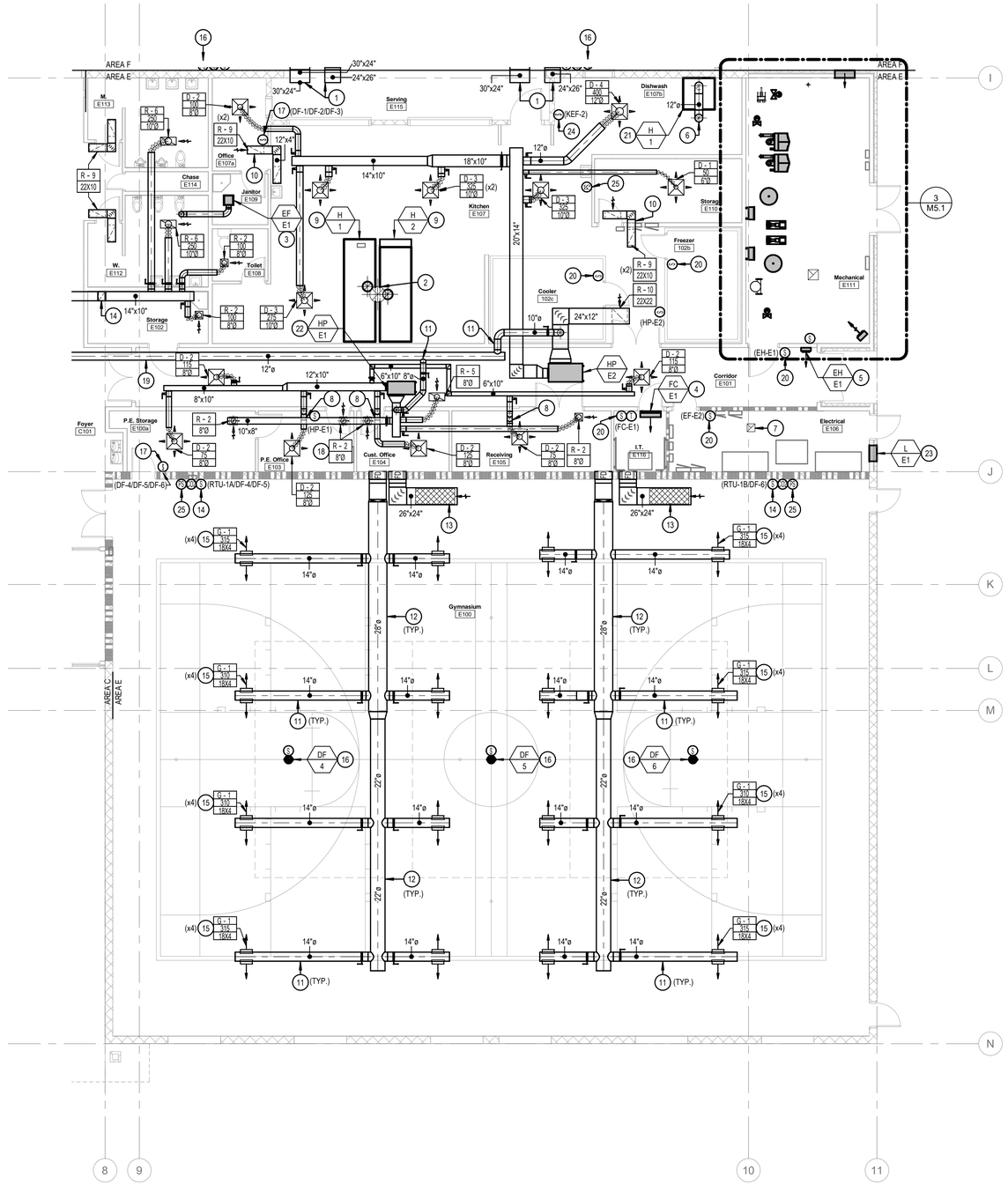
DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M2.4
HVAC FLOOR PLAN – AREA D



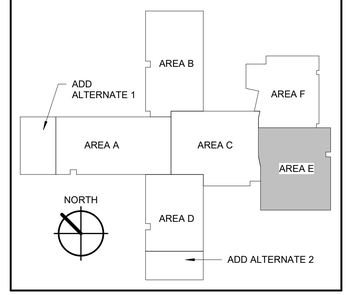
1 HVAC FLOOR PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 24"X36" SUPPLY DUCT AND 30"X24" RETURN DUCT THROUGH GYM WALL. SEE SHEET SHEET M4.5 FOR CONTINUATION.
2. COMBINED (2) 16" EXHAUST DUCTS TO (1) 22" EXHAUST DUCT. ROUTE TO ROOF-MOUNTED EXHAUST FAN. SEE SHEET M4.5 FOR CONTINUATION.
3. CEILING CABINET EXHAUST FAN WITH HANGING VIBRATION ISOLATORS AND FLEXIBLE CONNECTION AT OUTLET. ROUTE 8" EXHAUST DUCT TO ROOF THROUGH STRUCTURE. SEE SHEET M4.5 FOR CONTNIUATION.
4. MOUNT DUCTLESS SPLIT FAN COIL ABOVE DOOR. ROUTE REFRIGERANT LINES FROM ROOF ABOVE. SEE SHEET M4.5 FOR CONTINUATION.
5. RECESSED ELECTRIC HEATER MOUNTED 24" A.F.F.
6. ROUTE 12" DUCT TO ROOF MOUNTED EXHAUST FAN. SEE SHEET M4.5 FOR CONTINUATION.
7. EXTEND A FULL SIZE DUCT FROM THE ROOF-MOUNTED EXHAUST FAN THROUGH THE CEILING. TERMINATE THE DUCT WITH AN EXPANDED METAL SCREEN WITH A 1" FRAME. PAINT THE EXPANDED METAL AND ALL VISIBLE DUCTWORK THE SAME COLOR AS THE CEILING.
8. ROUTE 8" SUPPLY DUCT UNDER RETURN DUCT.
9. SEE TYPE 1 KITCHEN HOOD DETAIL #6 ON SHEET M6.6.
10. SEE TRANSFER DUCT DETAIL #5 ON SHEET M6.6.
11. ROUTE SPIRAL BRANCH DUCTWORK THROUGH JOIST WEBBING. COORDINATE LOCATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. (TYPICAL)
12. ROUTE SPIRAL MAIN DUCTWORK TIGHT TO STRUCTURE NEXT TO JOIST WEBBING. (TYPICAL)
13. 60"X22" EXPANDED METAL OPENING COVER ON TOP SIDE OF DUCTWORK.
14. COMBINATION CO2 AND TEMPERATURE SENSOR. PROVIDE WITH CLEAR PROTECTIVE COVER.
15. ANGLE GRILLES AT 45DEG DOWNWARD. SEE SPIRAL DUCT SUPPORT DETAIL #3 ON SHEET M6.6.
16. SEE DESTRATIFICATION FAN MOUNTING DETAIL #4 ON SHEET M6.1.
17. DESTRATIFICATION FAN OVERRIDE SWITCH.
18. PROVIDE GRILLE WITH BALANCE DAMPER.
19. ROUTE 12" OA DUCT THROUGH JOIST WEBBING. COORDINATE WITH STRUCTURAL PRIOR TO INSTALLATION
20. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
21. SEE TYPE 2 KITCHEN HOOD DETAIL #3 ON SHEET M6.3.
22. AVOID CABLE TRAY AND MAINTAIN CLEARANCE REQUIREMENTS FOR HEAT PUMP. COORDINATE FINAL LOCATION WITH ELECTRICIAN PRIOR TO INSTALLATION.
23. MOUNT LOUVER 10' A.F.F. COORDINATE FINAL INSTALLATION LOCATION WITH ELECTRICIAN.
24. DISHWASHER EXHAUST FAN WALL SWITCH.
25. SPACE PRESSURE SENSOR.

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
|

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Jerome School District No. 261
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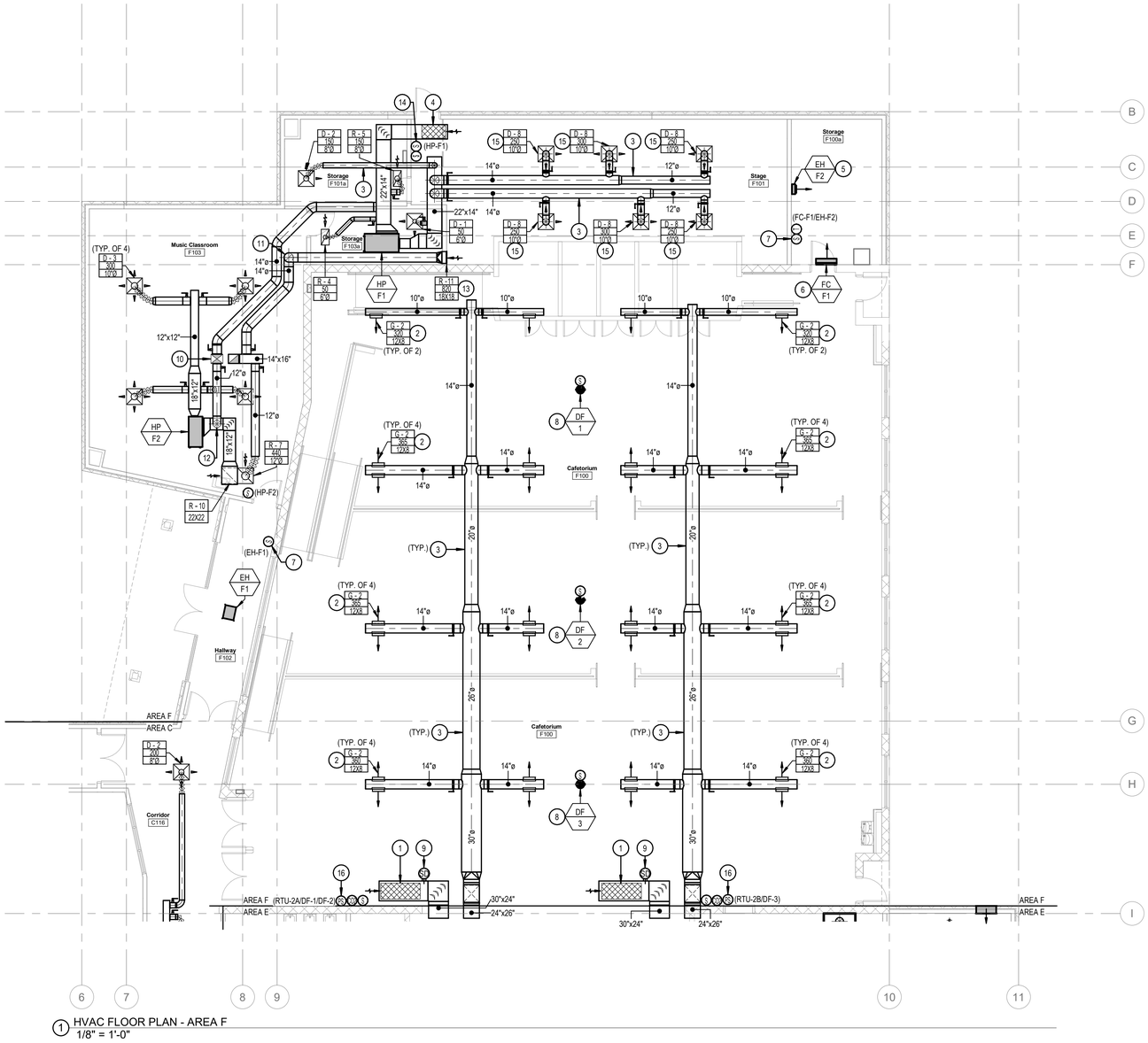
DRAWING NO.:

M2.5
HVAC FLOOR PLAN – AREA E



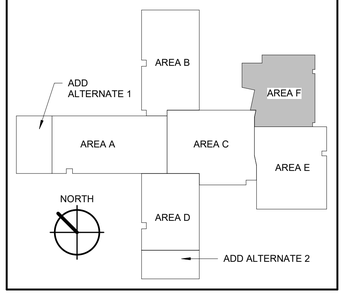
1 HVAC FLOOR PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. 60"X22" EXPANDED METAL OPENING COVER ON TOP SIDE OF DUCTWORK.
2. ANGLE GRILLE 45° DOWNWARD.
3. ROUTE SPIRAL DUCTWORK THROUGH JOIST WEBBING. COORDINATE LOCATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. (TYPICAL)
4. 36"X20" EXPANDED METAL OPENING COVER ON TOP SIDE OF DUCTWORK.
5. RECESSED ELECTRIC HEATER MOUNTED 24" A.F.F.
6. MOUNT DUCTLESS SPLIT FAN COIL ABOVE DOOR. ROUTE REFRIGERANT LINES FROM ROOF ABOVE. SEE SHEET M4.6 FOR CONTINUATION.
7. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
8. SEE DESTRATIFICATION FAN MOUNTING DETAIL #4 ON SHEET M6.1.
9. DUCT MOUNTED SMOKE DETECTOR.
10. ROUTE 18"X14" SUPPLY AND 16"X14" EXHAUST DUCTWORK TO ROOF. TRANSITION THROUGH STRUCTURE AS REQUIRED. SEE SHEET M4.6 FOR CONTINUATION.
11. ROUTE 14" EXHAUST DUCT UP INTO JOIST WEBBING.
12. ROUTE 6" OA DUCT THROUGH JOIST WEBBING DOWN INTO RA DUCT.
13. HIGH WALL EXAHUST GRILLE MOUNTED 14' A.F.F.
14. WALL MOUNTED TEMPERATURE SENSOR AND SHUTOFF SWITCH FOR HP-F1.
15. COORDINATE DIFFUSER LOCATION WITH PIPE GRID CEILING ABOVE STAGE AREA.
16. SPACE PRESSURE SENSOR.

Keyed Plan



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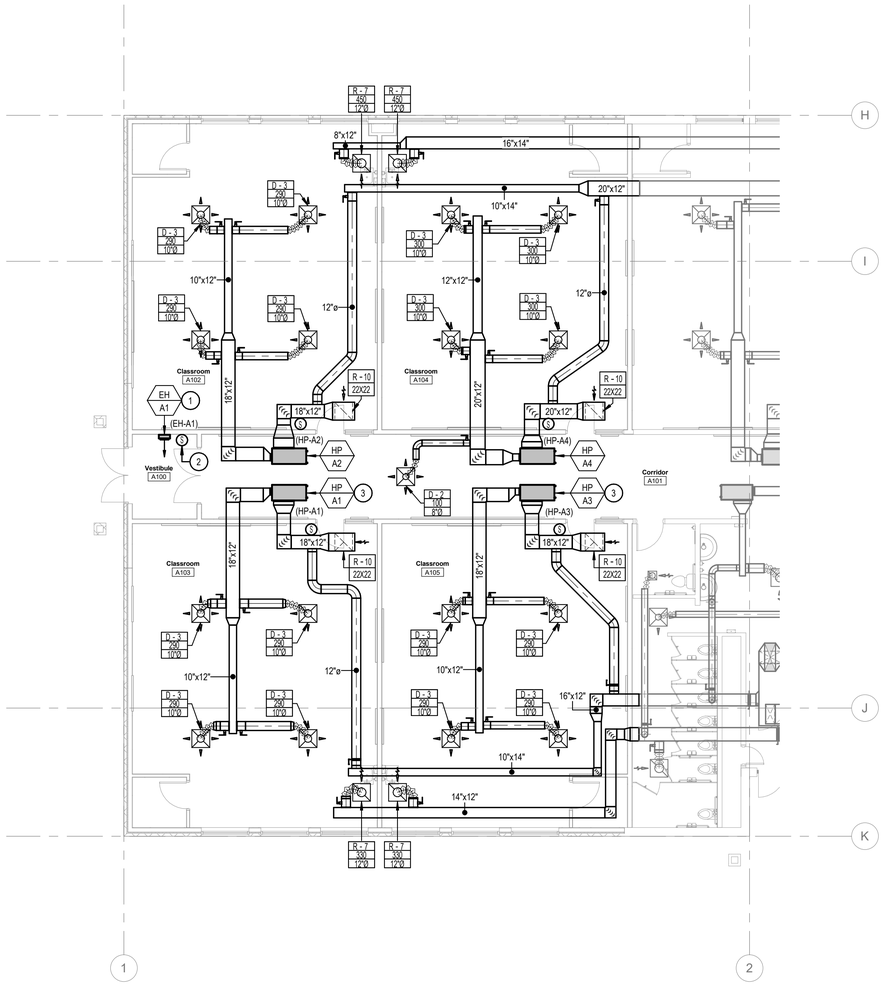
DRAWING NO.:

M2.6
HVAC FLOOR PLAN – AREA F

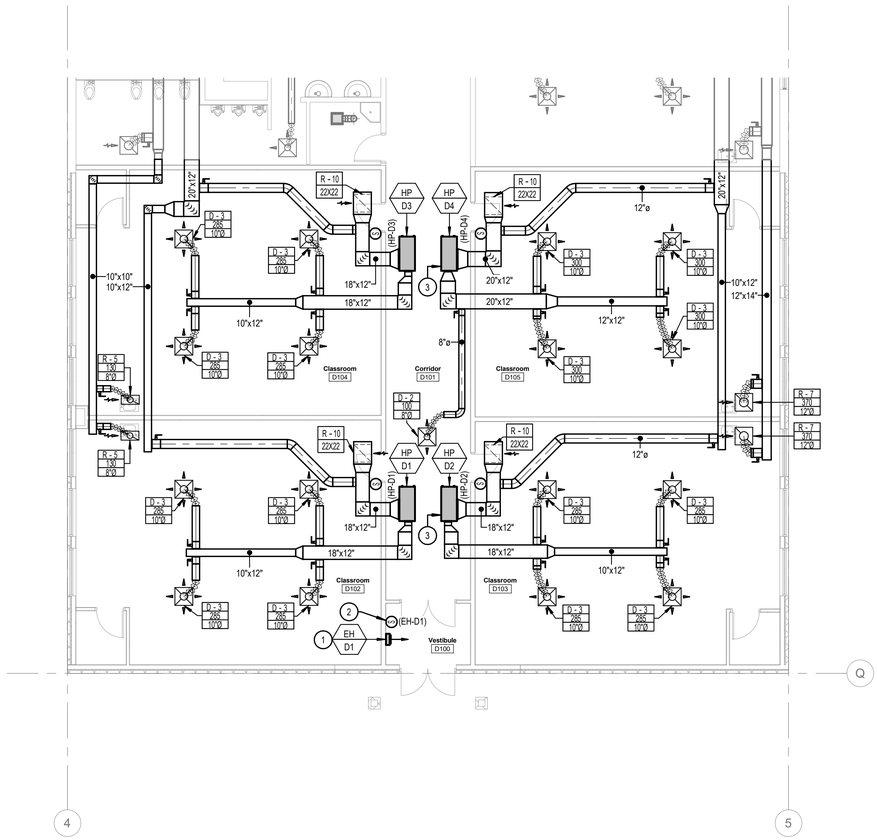
KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. RECESSED ELECTRIC HEATER MOUNTED 24" A.F.F.
2. STAINLESS STEEL BLANK WALLPLATE TEMPERATURE SENSOR.
3. AVOID CABLE TRAY AND MAINTAIN CLEARANCE REQUIREMENTS FOR HEAT PUMP. COORDINATE FINAL LOCATION WITH ELECTRICIAN PRIOR TO INSTALLATION.

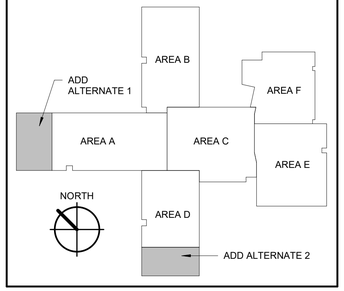


1 HVAC FLOOR PLAN - ALTERNATE 1
1/8" = 1'-0"



2 HVAC FLOOR PLAN - ALTERNATE 2
1/8" = 1'-0"

Keyed Plan



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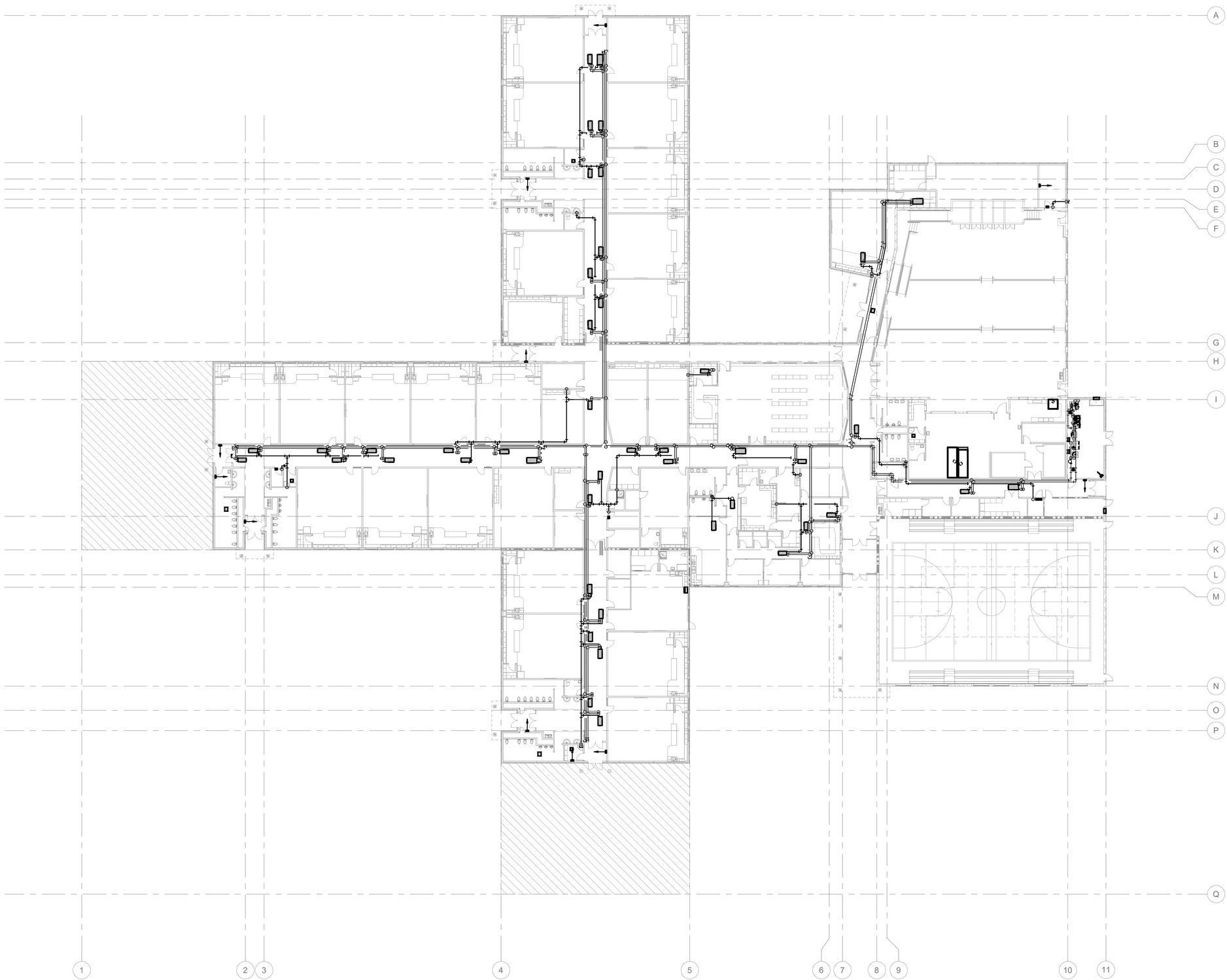
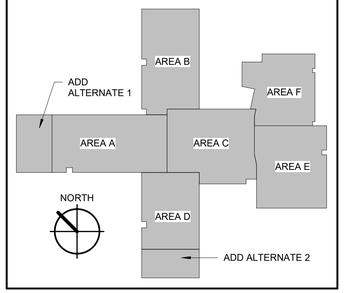
DRAWING NO.:

M2.7
HVAC FLOOR PLAN – ADD ALTERNATE 1 & 2



1 HYDRONIC OVERALL PLAN
1" = 20'-0"

Keyed Plan



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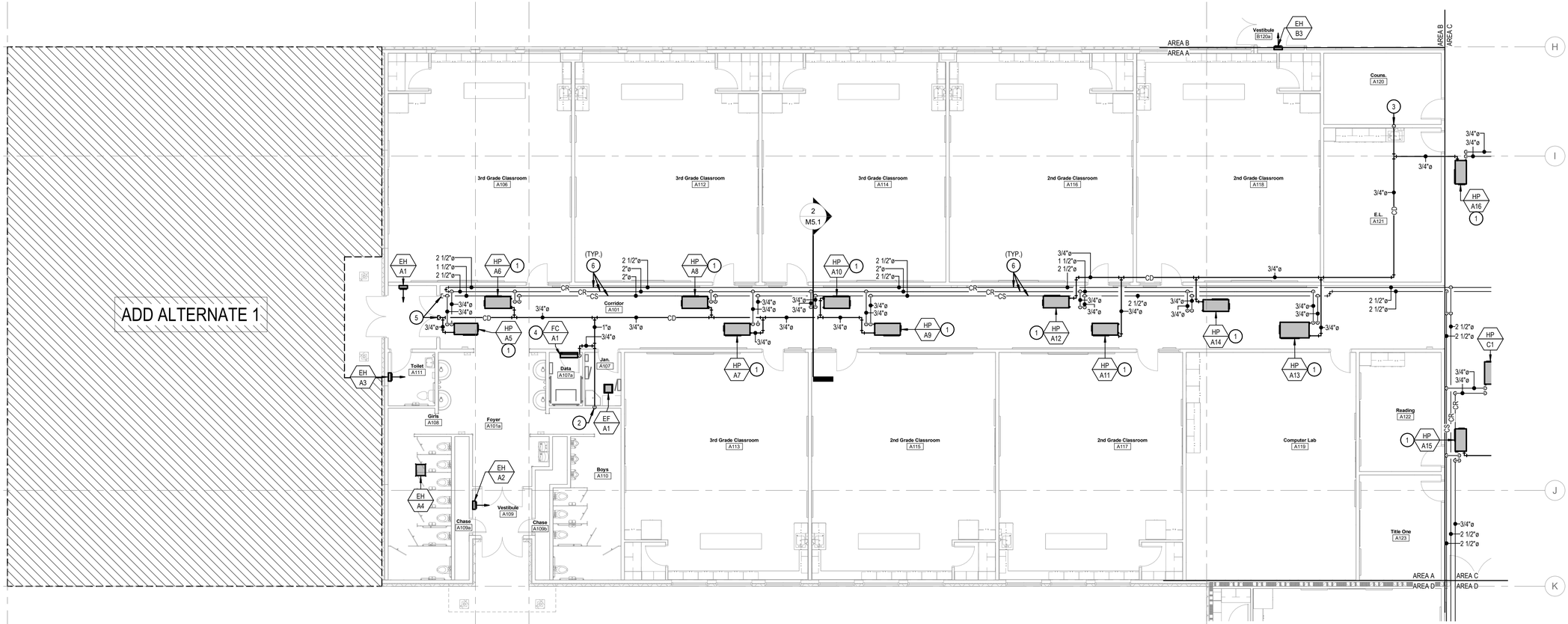
DRAWING NO.:

M3.0
OVERALL HYDRONIC FLOOR PLAN



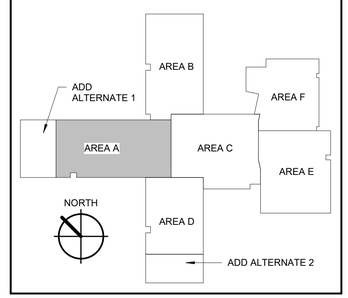
1 HYDRONIC PIPING FLOOR PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTING DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.
2. ROUTE 1" CONDENSATE DRAIN DOWN INSIDE WALL AND TERMINATE INDIRECTLY AT SERVICE SINK.
3. ROUTE 3/4" CONDENSATE DRAIN DOWN INSIDE WALL AND CONNECT TO SINK TAILPIECE.
4. ROUTE 3/4" CONDENSATE DRAIN TO FC-A1.
5. CAP FOR FUTURE EXPANSION.
6. ROUTE CS & CR PIPING ABOVE CEILING. PROVIDE EXPANSION JOINTS AS REQUIRED. SEE DETAIL #1 & #2 ON SHEET M6.5 FOR INSTALLATION REQUIREMENTS.

Keyed Plan



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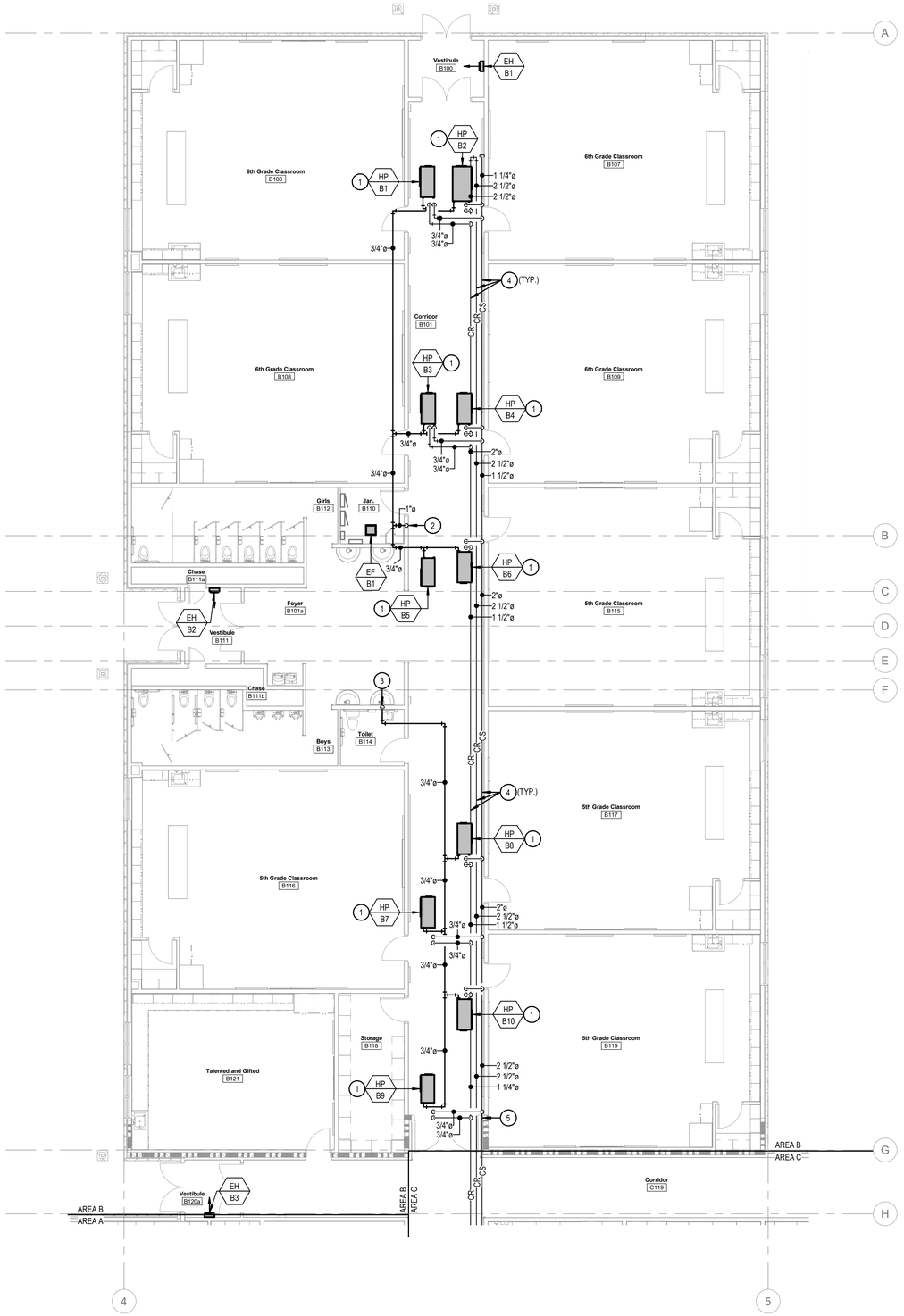
DRAWING NO.:

M3.1
HYDRONIC PIPING FLOOR PLAN – AREA A



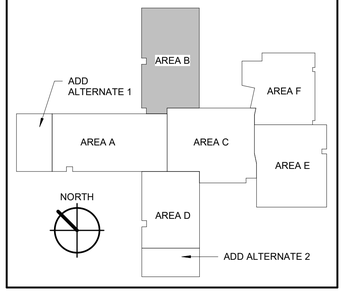
1 HYDRONIC PIPING FLOOR PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTIAN DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.
2. ROUTE 1" CONDENSATE DRAIN DOWN INSIDE WALL AND TERMINATE INDIRECTLY AT SERVICE SINK.
3. ROUTE 3/4" CONDENSATE DRAIN DOWN INSIDE WALL AND CONNECT TO LAVATORY TAILPIECE.
4. ROUTE CS & CR PIPING ABOVE CEILING. PROVIDE EXPANSION JOINTS AS REQUIRED. SEE DETAIL #1 & #2 ON SHEET M6.5 FOR INSTALLATION REQUIREMENTS.
5. FIRE CAULK AROUND HYDRONIC PIPE PENETRATIONS THROUGH FIRE WALL.

Keyed Plan



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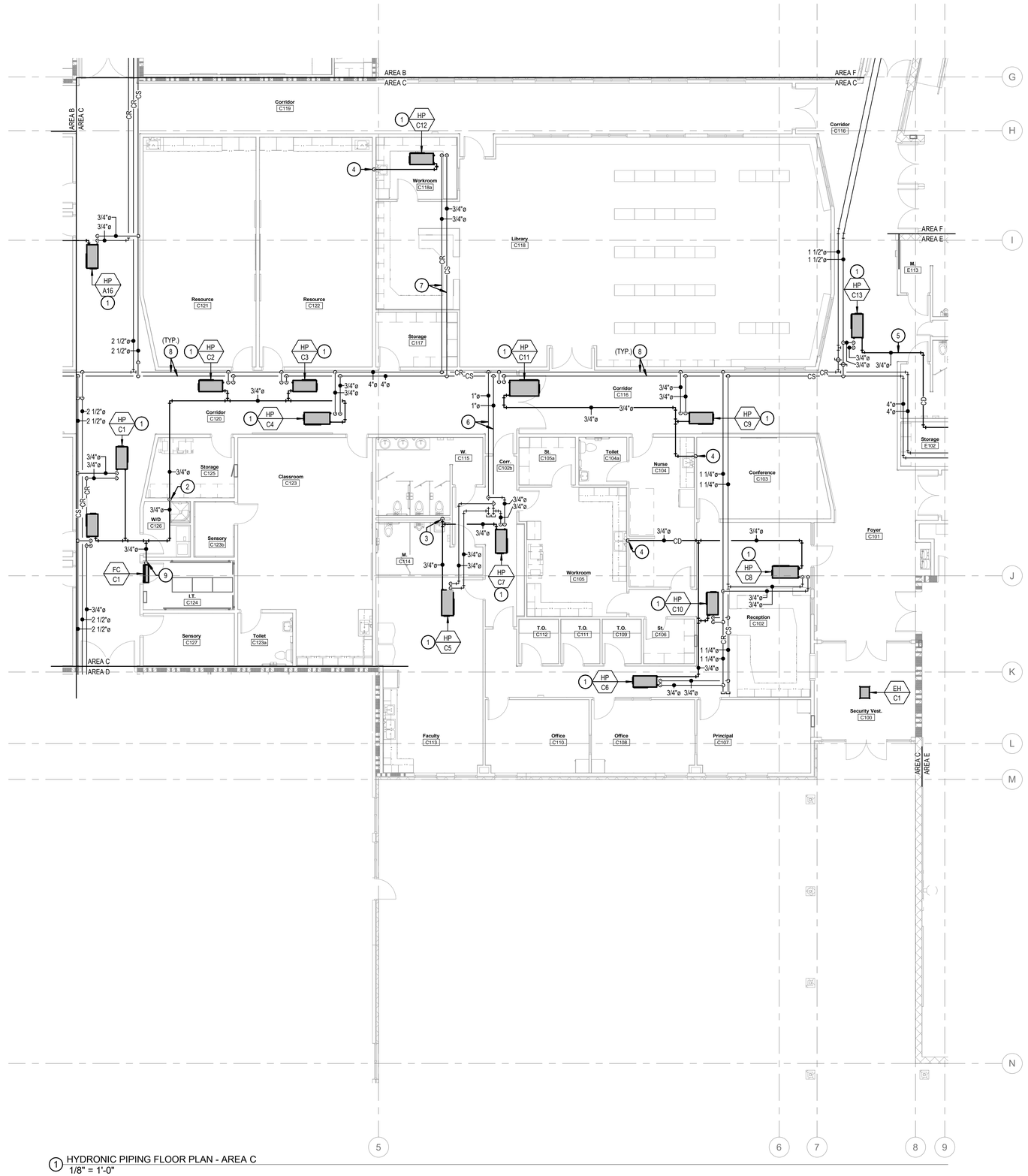
DRAWING NO.:

M3.2
HYDRONIC PIPING FLOOR PLAN – AREA B



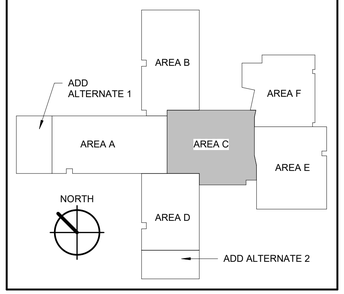
1 HYDRONIC PIPING FLOOR PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTING DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.
2. ROUTE 1" CONDENSATE DRAIN DOWN INSIDE WALL AND TERMINATE INDIRECTLY AT SERVICE SINK.
3. ROUTE 3/4" CONDENSATE DRAIN DOWN INSIDE WALL AND CONNECT TO LAVATORY TAILPIECE.
4. ROUTE 3/4" CONDENSATE DRAIN DOWN INSIDE WALL AND CONNECT TO SINK TAILPIECE.
5. ROUTE 3/4" CD TO STORAGE E102. SEE SHEET M3.5 FOR CONTINUATION
6. ROUTE 1" CS & 1" CR UP INTO STRUCTURE AND OVER CORRIDOR C116.
7. ROUTE 3/4" CS & 3/4" CR UP INTO STRUCTURE AND OVER LIBRARY C118.
8. ROUTE CS & CR PIPING ABOVE CEILING. PROVIDE EXPANSION JOINTS AS REQUIRED. SEE DETAIL #1 & #2 ON SHEET M6.5 FOR INSTALLATION REQUIREMENTS.
9. ROUTE 3/4" CD TO FC-C1.

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
project number: 21-422

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Description | Date
|

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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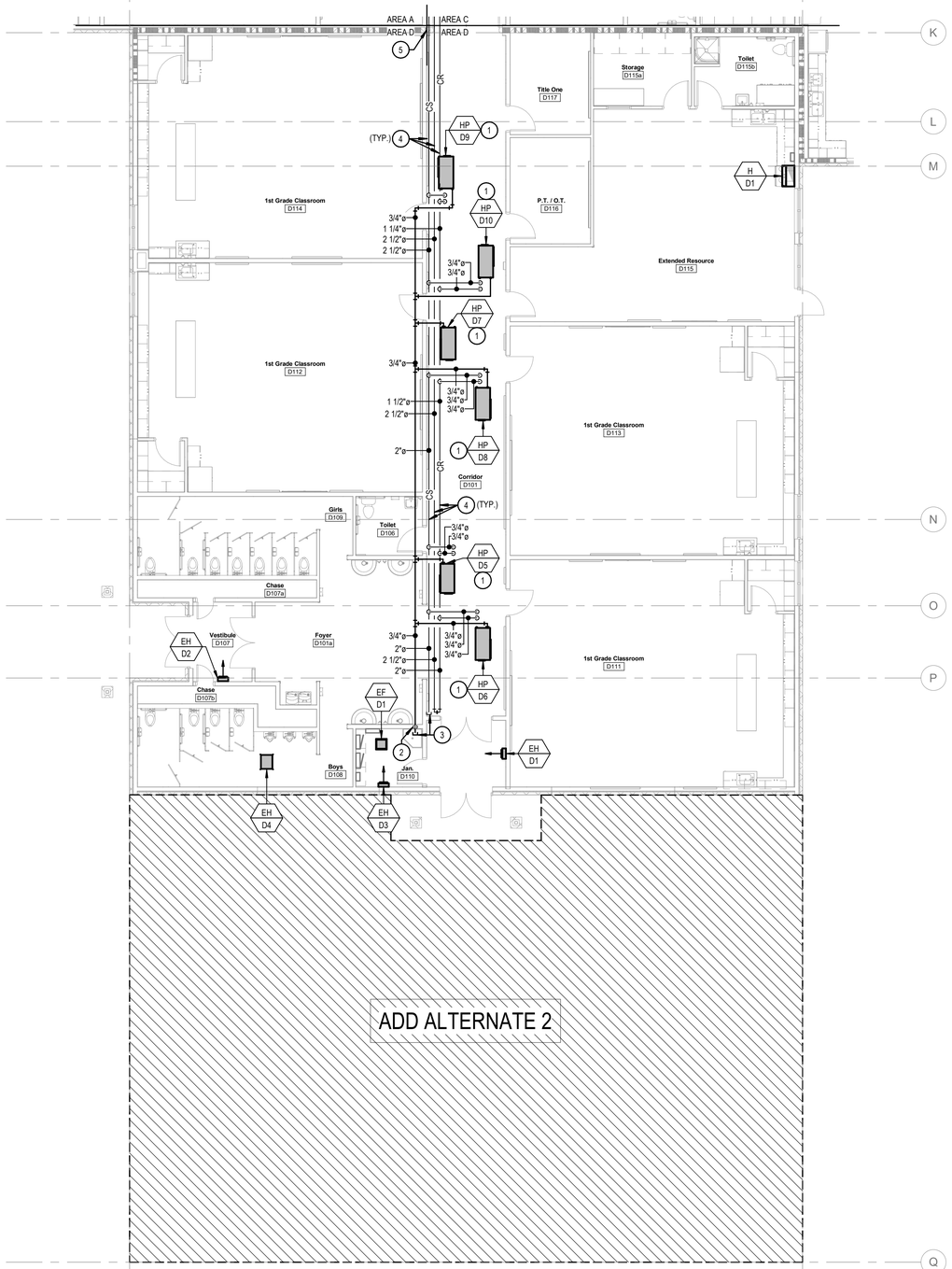
DRAWING NO.:

M3.3
HYDRONIC PIPING FLOOR PLAN – AREA C



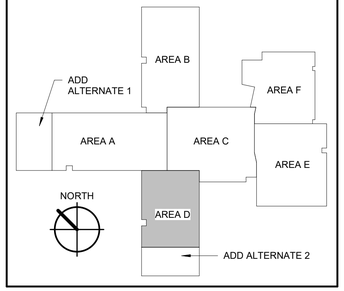
1 HYDRONIC PIPING FLOOR PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTING DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.
2. ROUTE 1" CONDENSATE DRAIN DOWN INSIDE WALL AND TERMINATE INDIRECTLY AT SERVICE SINK.
3. CAP FOR FUTURE EXPANSION.
4. ROUTE CS & CR PIPING ABOVE CEILING. PROVIDE EXPANSION JOINTS AS REQUIRED. SEE DETAIL #1 & #2 ON SHEET M6.5 FOR INSTALLATION REQUIREMENTS.
5. FIRE CAULK AROUND HYDRONIC PIPE PENETRATIONS THROUGH FIRE WALL.

Keyed Plan



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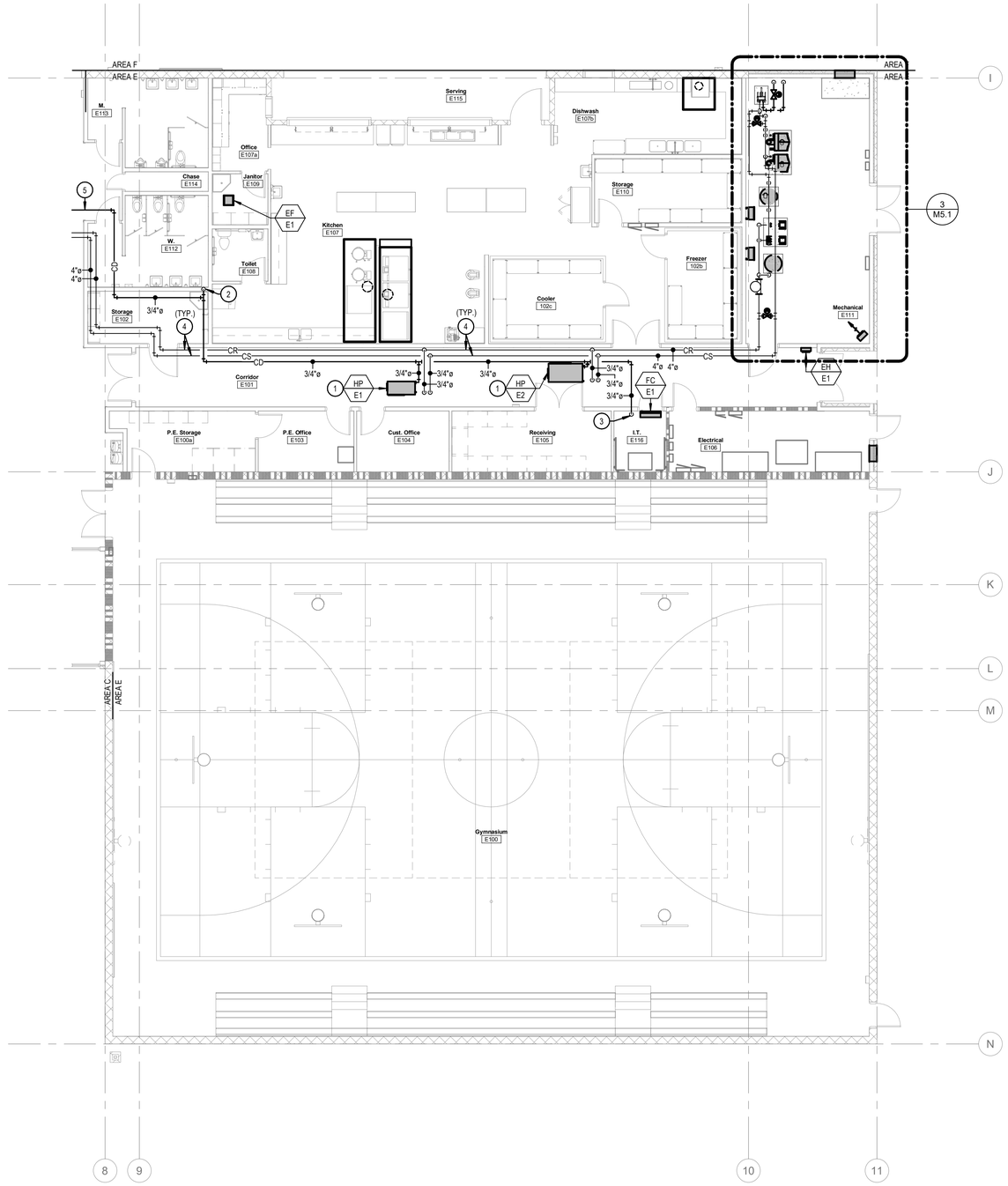
M3.4
HYDRONIC PIPING FLOOR PLAN – AREA D



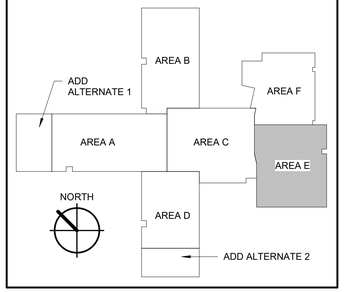
1 HYDRONIC PIPING FLOOR PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTING DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN INSIDE WALL AND TERMINATE INDIRECTLY AT SERVICE SINK.
3. ROUTE 3/4" CD TO FC-E1.
4. ROUTE CS & CR PIPING ABOVE CEILING. PROVIDE EXPANSION JOINTS AS REQUIRED. SEE DETAIL #1 & #2 ON SHEET M6.5 FOR INSTALLATION REQUIREMENTS.

Keyed Plan



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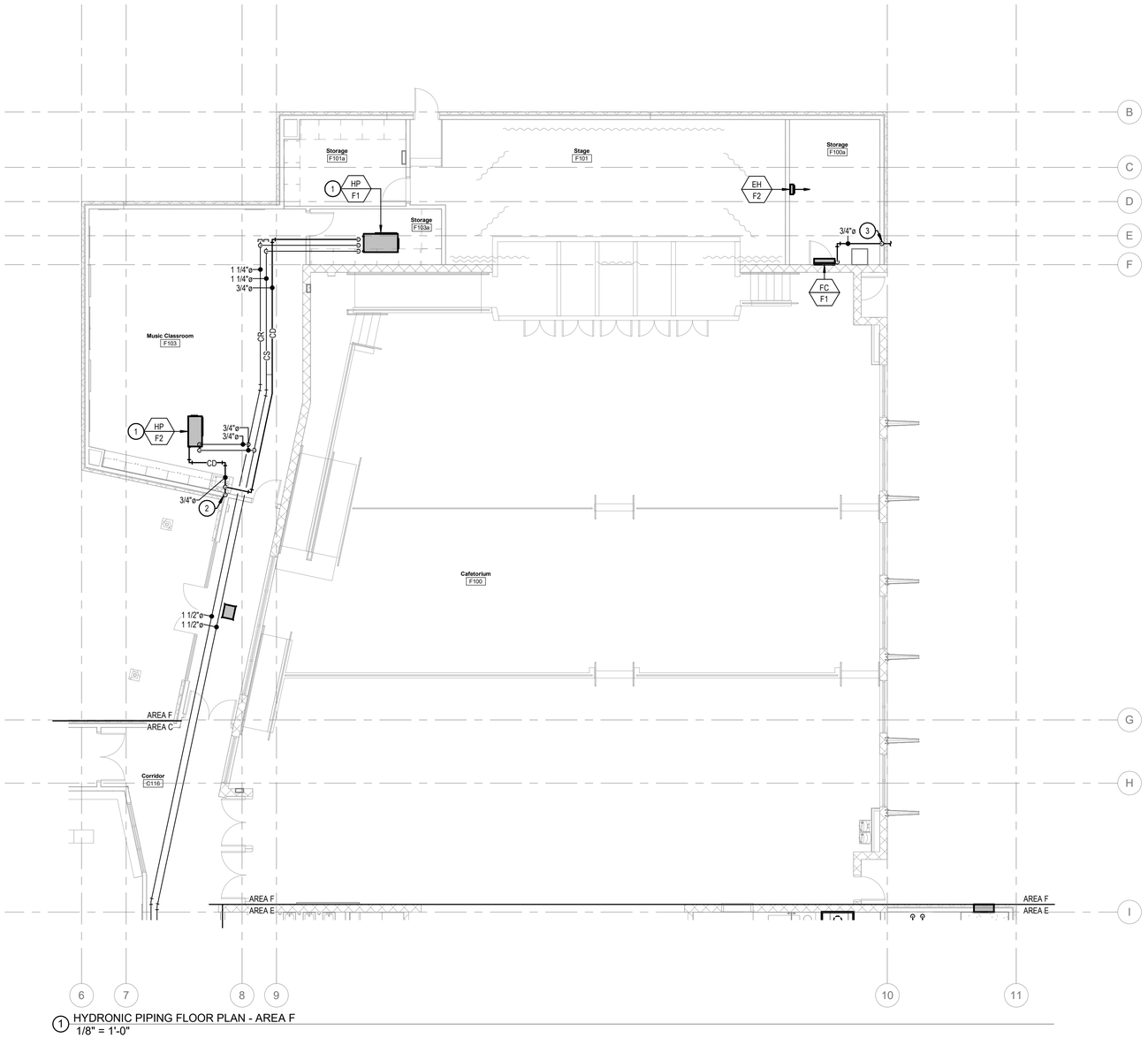
DRAWING NO.:

M3.5
HYDRONIC PIPING FLOOR PLAN – AREA E

KEYED NOTES:

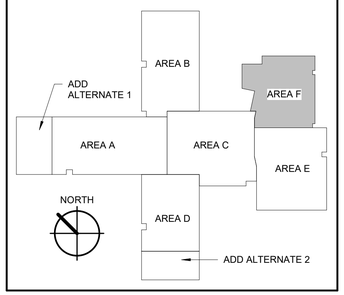
(#) SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTING DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.
2. ROUTE 3/4" CS DOWN WALL TO SINK TAILPIECE.
3. ROUTE 3/4" CS DOWN THROUGH EXTERIOR WALL AND SEAL WALL PENETRATION.



1 HYDRONIC PIPING FLOOR PLAN - AREA F
1/8" = 1'-0"

Keyed Plan



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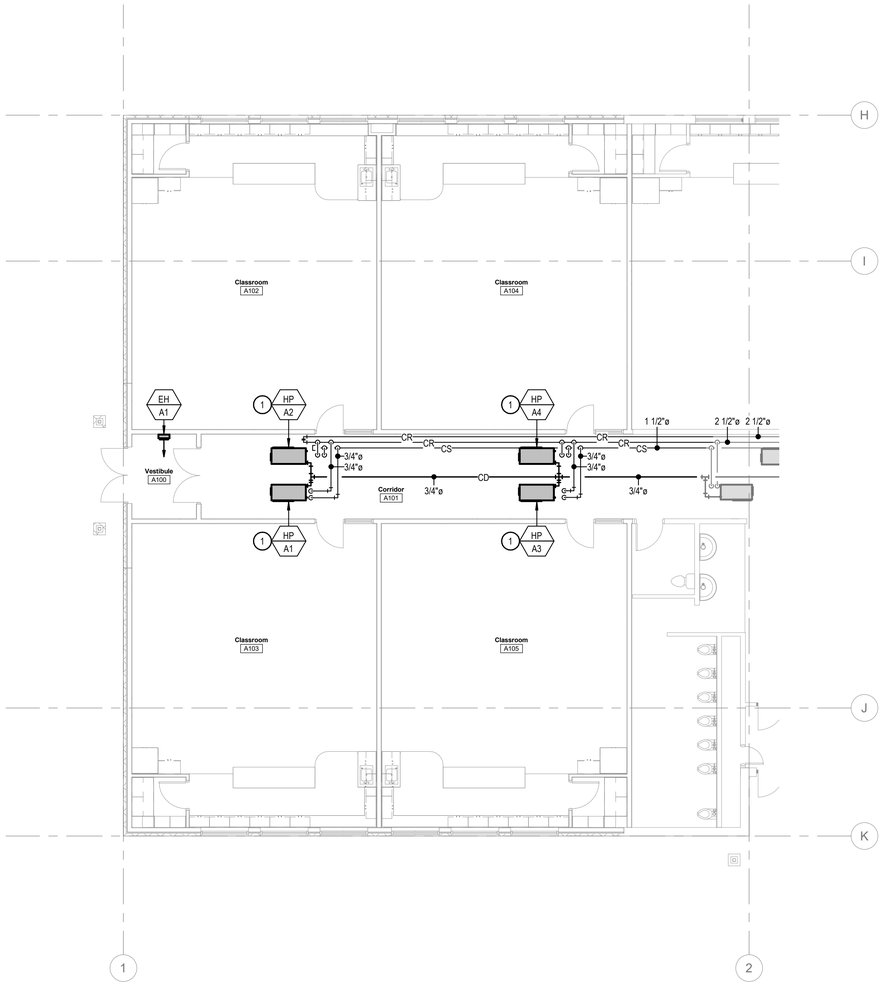
DRAWING NO.:

M3.6
HYDRONIC PIPING FLOOR PLAN – AREA F

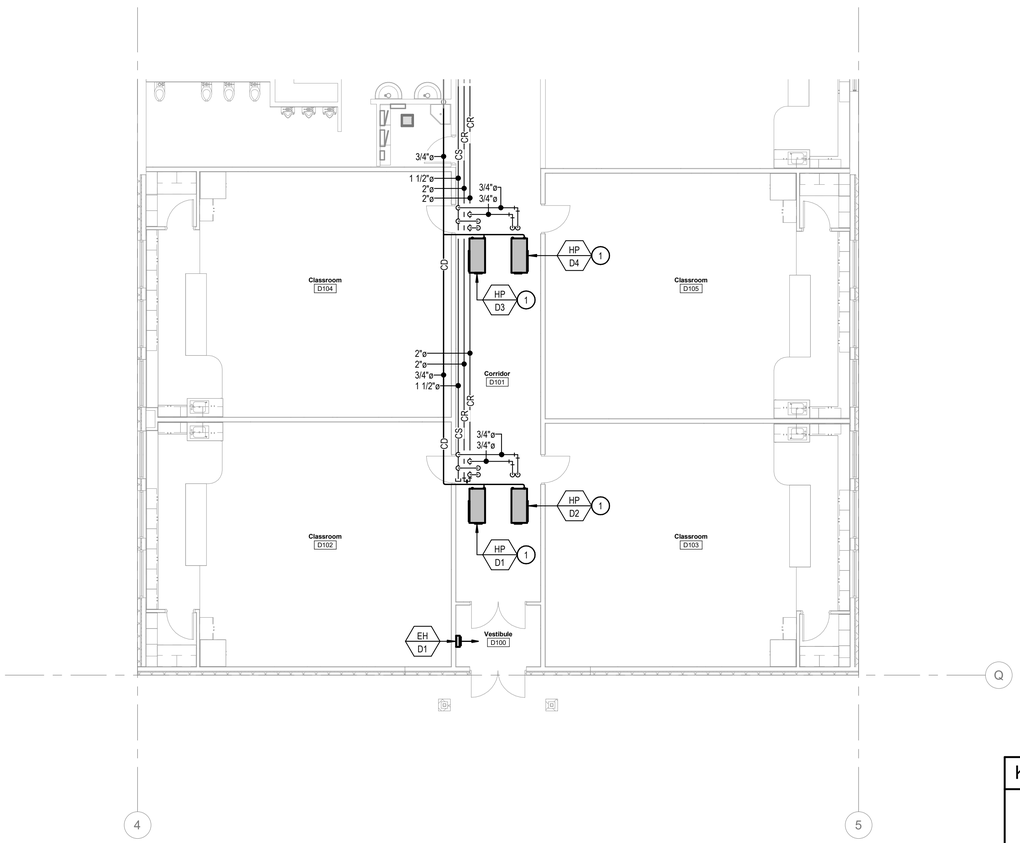
KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE HEAT PUMP PIPING AND MOUNTING DETAIL #1 & #2 ON SHEET M6.6 AND DETAIL #5 ON SHEET M6.3.

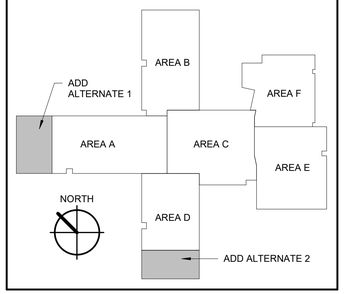


1 HYDRONIC PIPING FLOOR PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



2 HYDRONIC PIPING FLOOR PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

Keyed Plan



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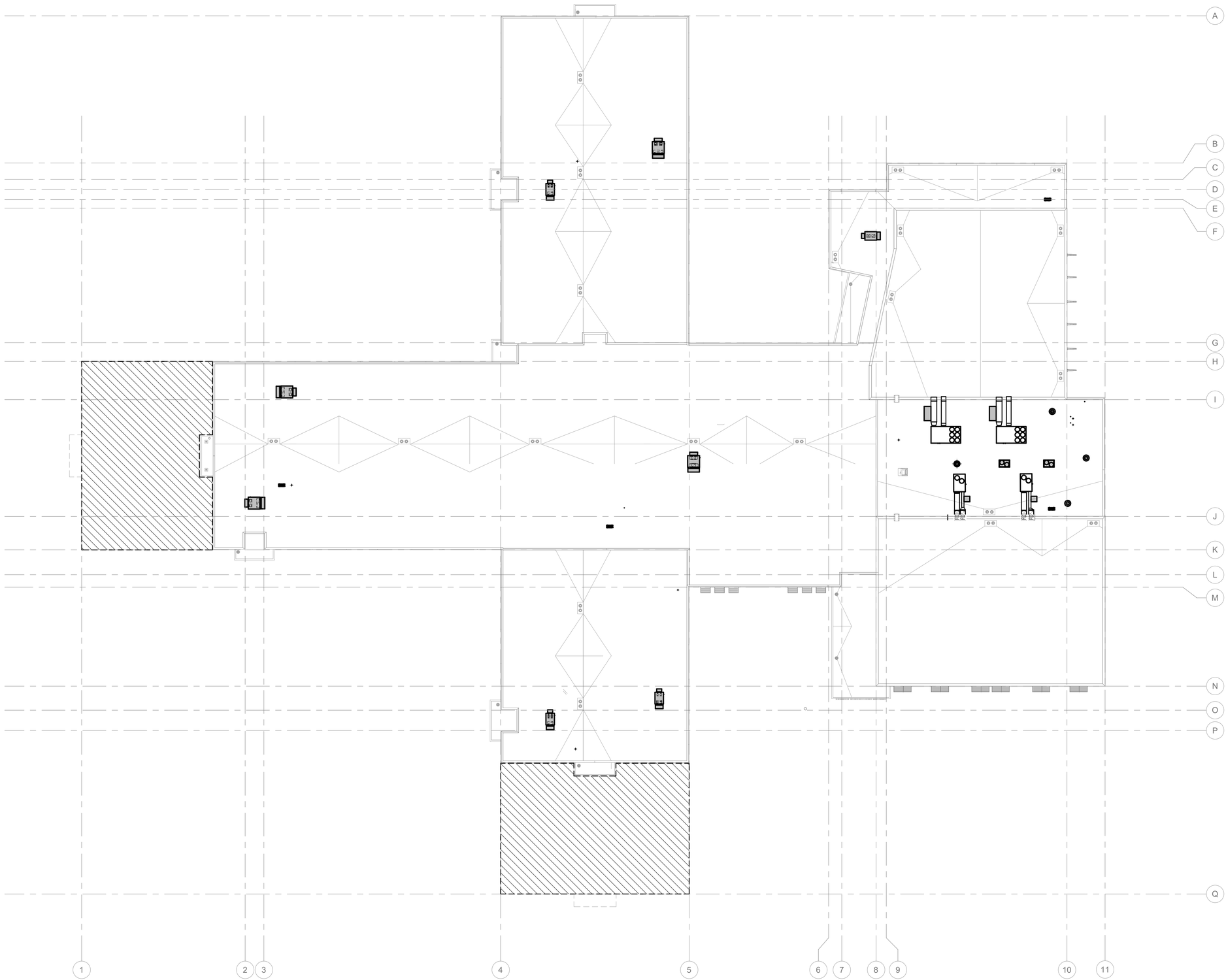
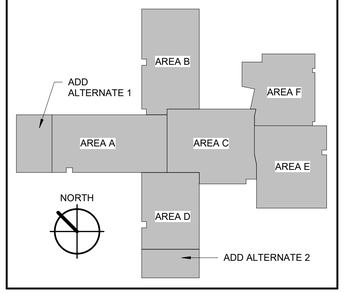
DRAWING NO.:

M3.7
HYDRONIC PIPING FLOOR PLAN – ADD ALT 1 & 2



1 OVERALL HVAC ROOF PLAN
1" = 20'-0"

Keyed Plan



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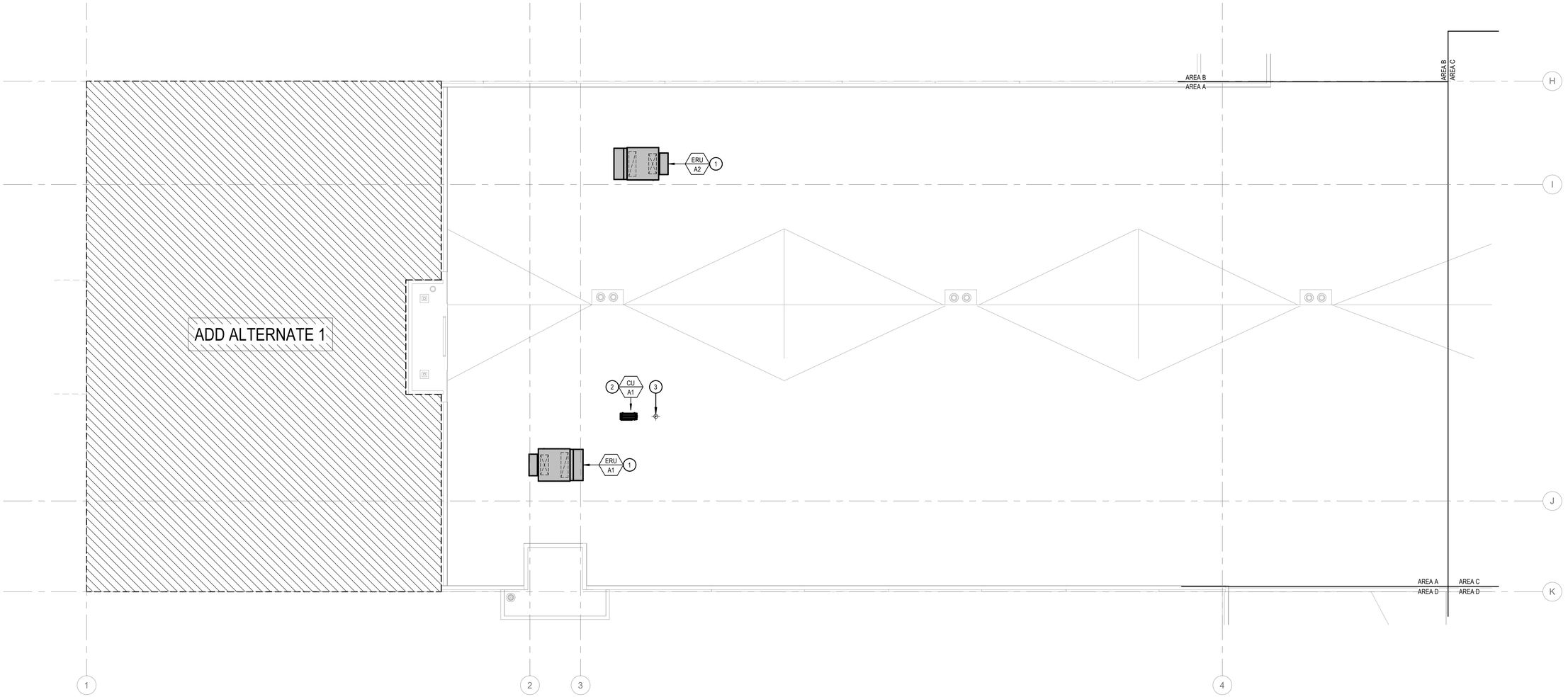
DRAWING NO.:

M4.0
OVERALL HVAC ROOF PLAN



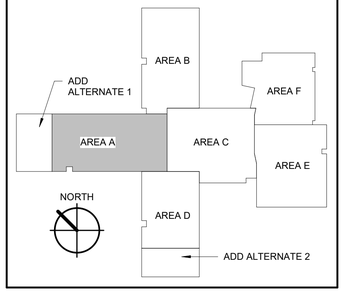
1 HVAC ROOF PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE ROOFTOP UNIT MOUNTING DETAIL #4 ON SHEET M6.6 FOR INSTALLATION REQUIREMENTS.
2. SEE HEAT PUMP PLATFORM DETAIL #3 ON SHEET M6.2 FOR INSTALLATION REQUIREMENTS.
3. EXHAUST FAN ROOF CAP.

Keyed Plan



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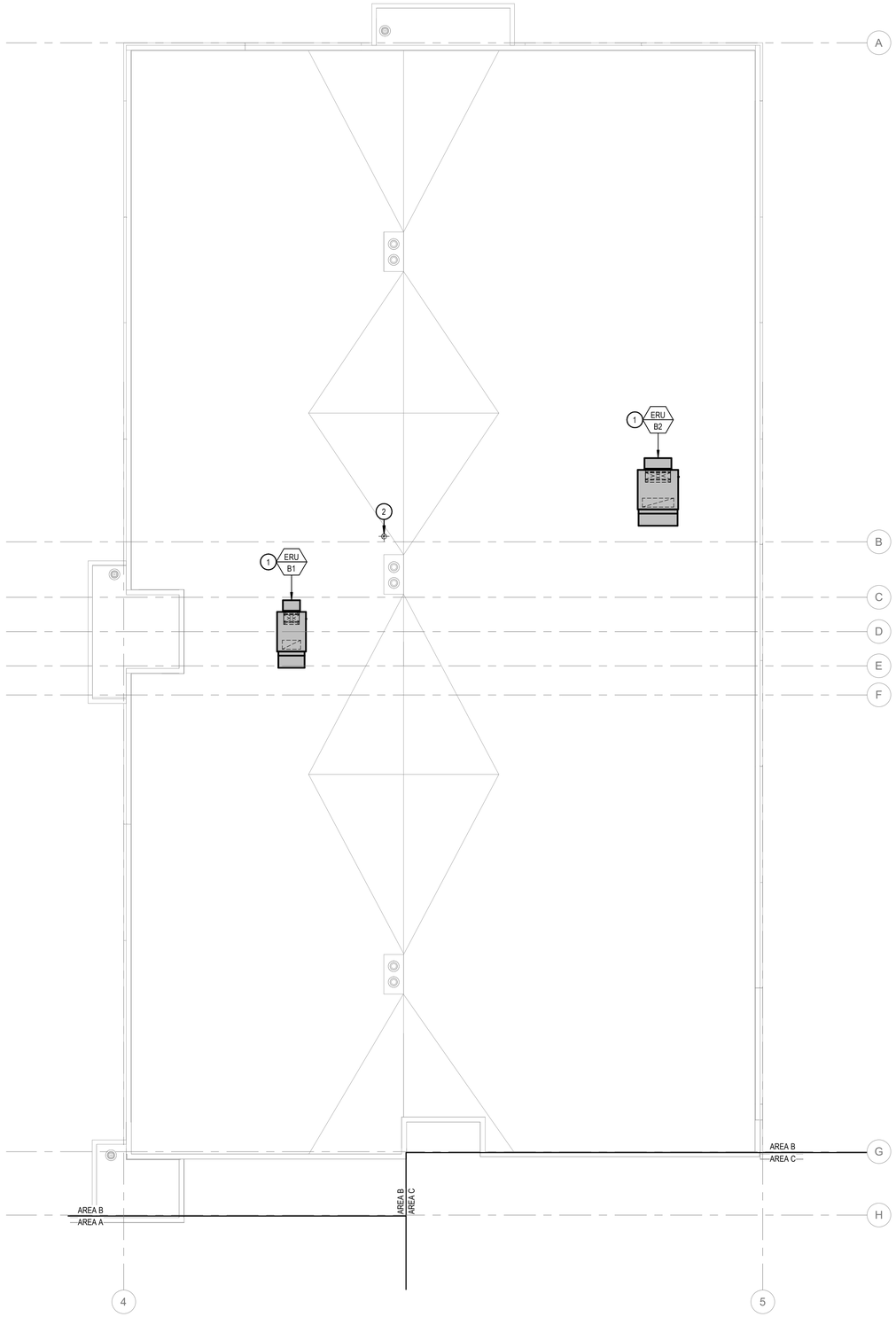
M4.1
HVAC ROOF PLAN – AREA A



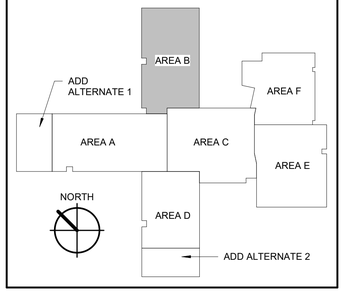
1 HVAC ROOF PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

SYMBOL USED FOR CALLOUT

1. SEE ROOFTOP UNIT MOUNTING DETAIL #4 ON SHEET M6.6 FOR INSTALLATION REQUIREMENTS.
2. EXHAUST FAN ROOF CAP.

Keyed Plan



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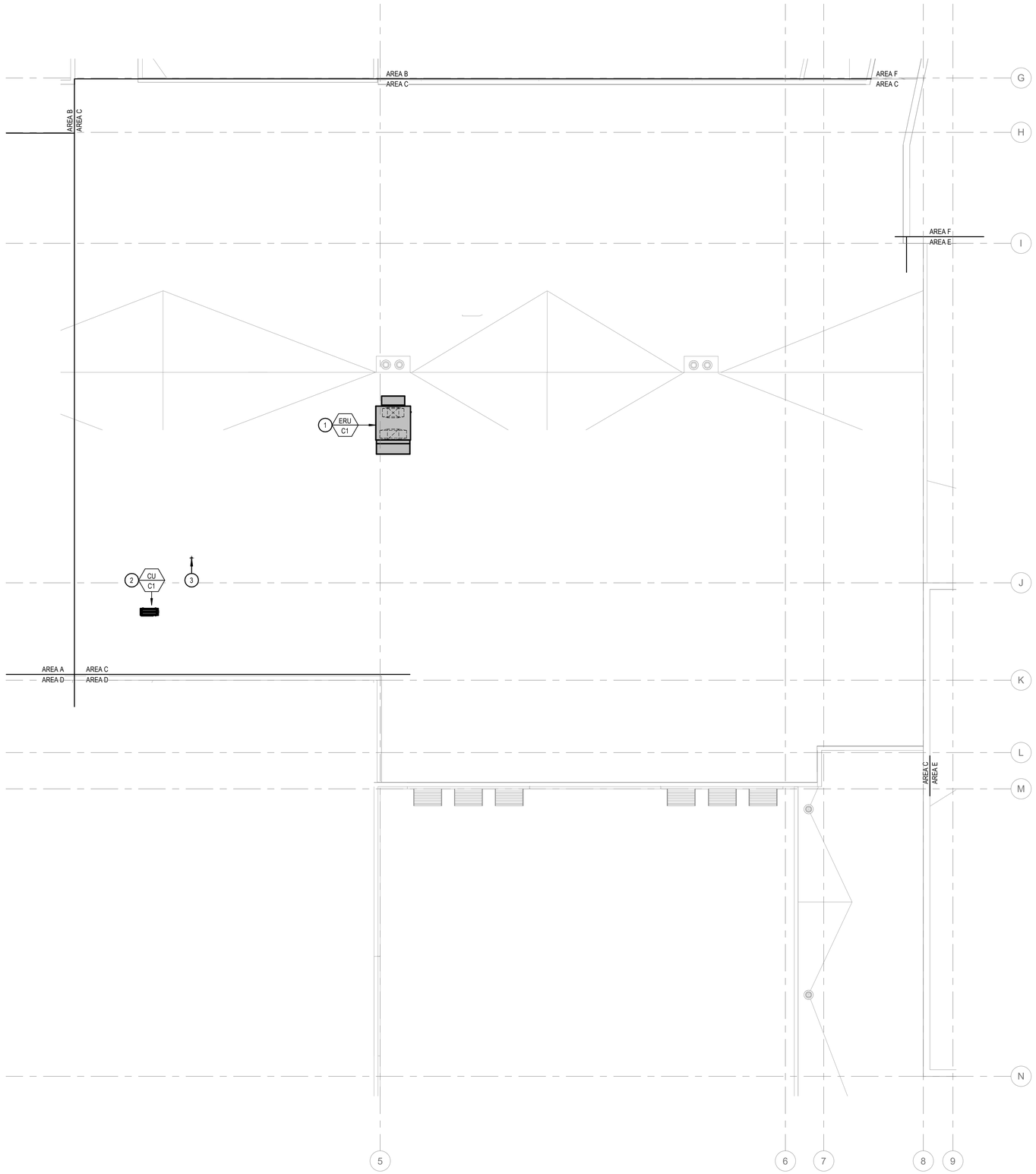
DRAWING NO.:

M4.2
HVAC ROOF PLAN – AREA B



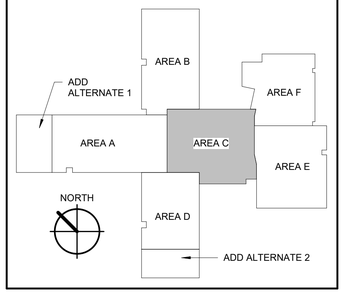
1 HVAC ROOF PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE ROOFTOP UNIT MOUNTING DETAIL #4 ON SHEET M6.6 FOR INSTALLATION REQUIREMENTS.
2. SEE HEAT PUMP PLATFORM DETAIL #3 ON SHEET M6.2 FOR INSTALLATION REQUIREMENTS.
3. CLOTHES DRYER ROOF VENT CAP. SEE DETAIL #2 ON SHEET M6.1 FOR INSTALLATION REQUIREMENTS.

Keyed Plan



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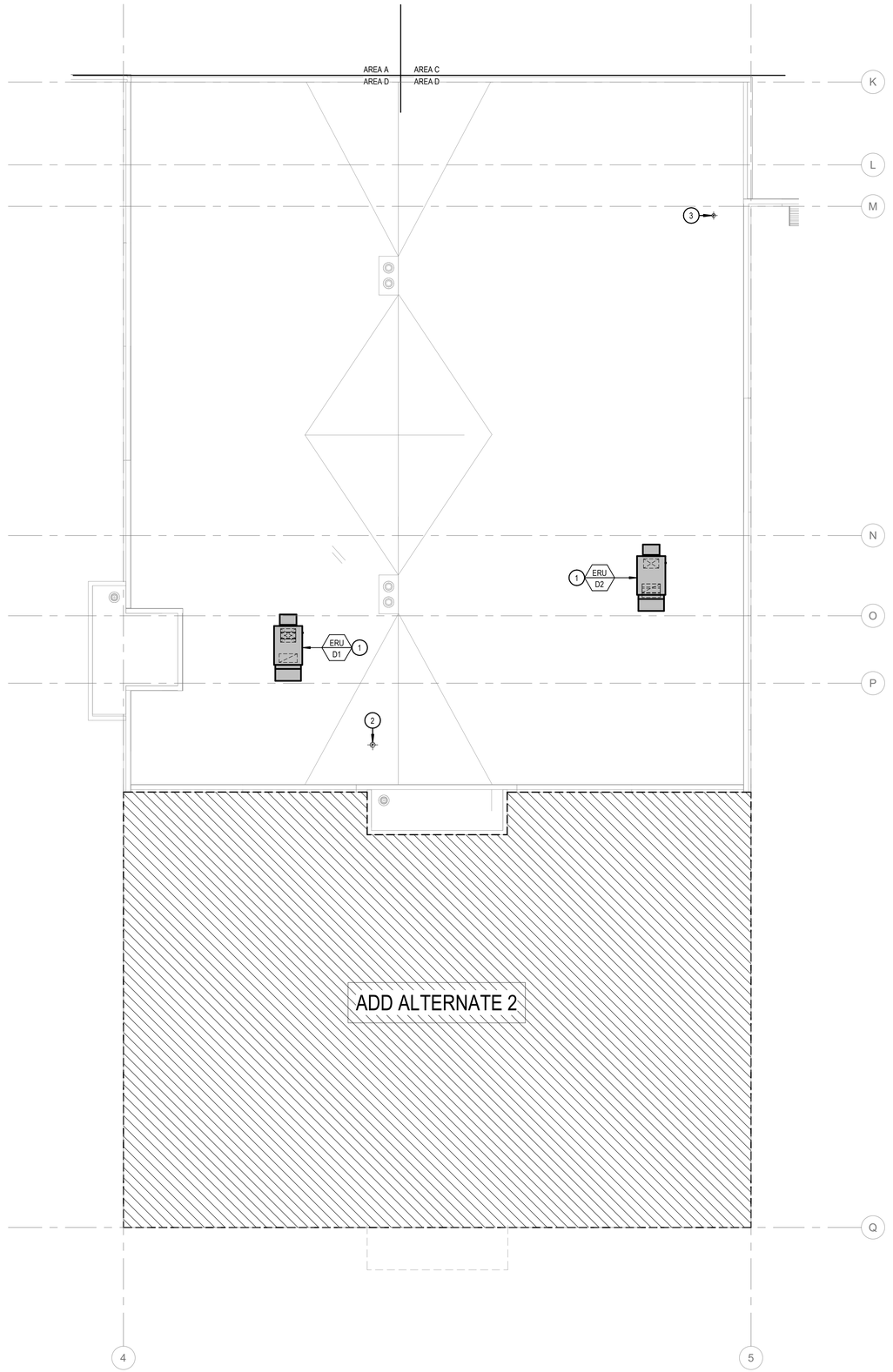
M4.3
HVAC ROOF PLAN – AREA C



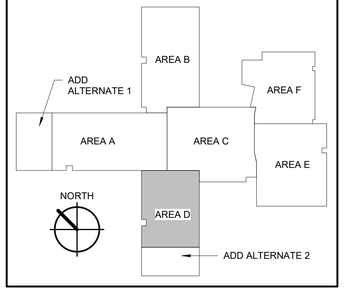
1 HVAC ROOF PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

SYMBOL USED FOR CALLOUT

1. SEE ROOFTOP UNIT MOUNTING DETAIL #4 ON SHEET M6.6 FOR INSTALLATION REQUIREMENTS.
2. EXHAUST FAN ROOF CAP.
3. RESIDENTIAL HOOD EXHAUST DUCT ROOF CAP. SEE SHEET M2.4 FOR CONTINUATION.

Keyed Plan



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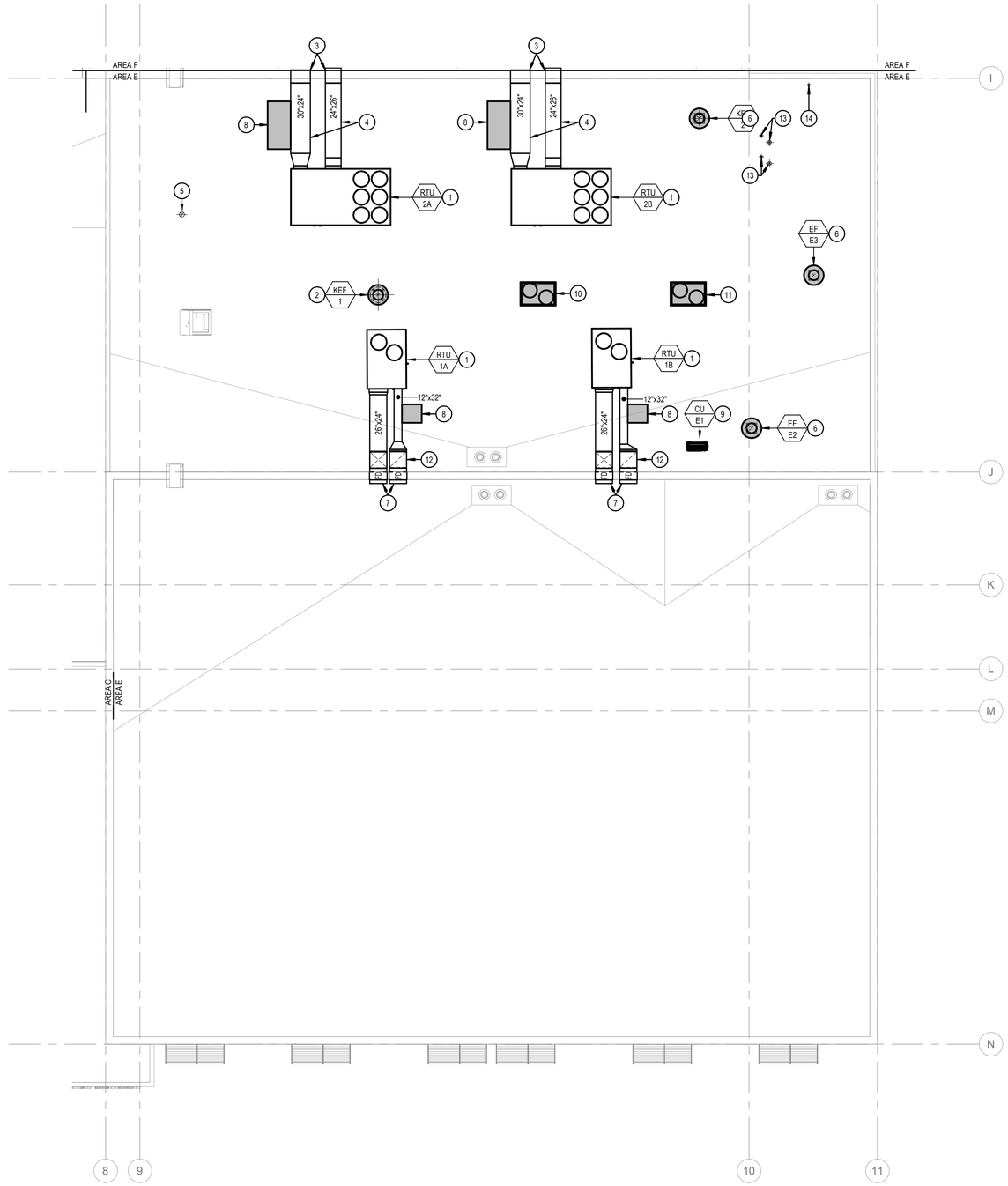
M4.4
HVAC ROOF PLAN - AREA D



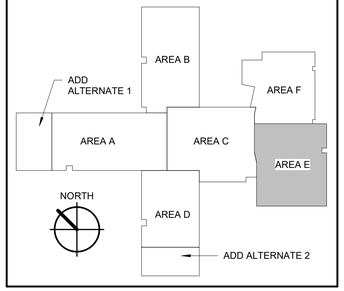
1 HVAC ROOF PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE ROOFTOP UNIT WITH SPRING RAIL MOUNTING DETAIL #1 ON SHEET M6.3 FOR INSTALLATION REQUIREMENTS.
2. SEE TYPE 1 KITCHEN EXHAUST FAN DETAIL #4 ON SHEET M6.2 FOR INSTALLATION REQUIREMENTS.
3. ROUTE DUCTWORK THROUGH WALL. SEE SHEET M2.6 FOR CONTINUATION.
4. SEE ROOF MOUNTED DUCTWORK SUPPORT DETAIL #4 ON SHEET M6.5 FOR INSTALLATION REQUIREMENTS.
5. EXHAUST FAN ROOF CAP.
6. SEE EXHAUST FAN DETAIL #7 ON SHEET M6.1 FOR INSTALLATION REQUIREMENTS.
7. ROUTE DUCTWORK THROUGH WALL AND PROVIDE WITH FIRE DAMPER. SEE SHEET M2.6 FOR CONTINUATION. SEE DETAIL #2 ON SHEET M6.8 FOR DAMPER INSTALLATION REQUIREMENTS.
8. DUCT MOUNTED POWER EXHAUST. SEE DETAIL #3 ON SHEET M6.8 FOR SUPPORT REQUIREMENTS.
9. SEE HEAT PUMP PLATFORM DETAIL #3 ON SHEET M6.2 FOR INSTALLATION REQUIREMENTS.
10. ROOF MOUNTED COOLER CONDENSER SHOWN FOR COORDINATION ONLY.
11. ROOF MOUNTED FREEZER CONDENSER SHOWN FOR COORDINATION ONLY.
12. ROUTE 26"X24" SUPPLY AND RETURN DUCTWORK UP TIGHT TO EXTERIOR WALL.
13. ROUTE 4" COMBUSTION AIR INTAKE AND 6" FLUE VENT FROM MECHANICAL ROOM BELOW. INSTALL FLUE VENT A MINIMUM OF 12" ABOVE COMBUSTION AIR INTAKE. SEE SHEET M5.1 FOR CONTINUATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
14. ROUTE 4" CONCENTRIC VENT FROM MECHANICAL ROOM BELOW AND PROVIDE TERMINATION KIT.

Keyed Plan



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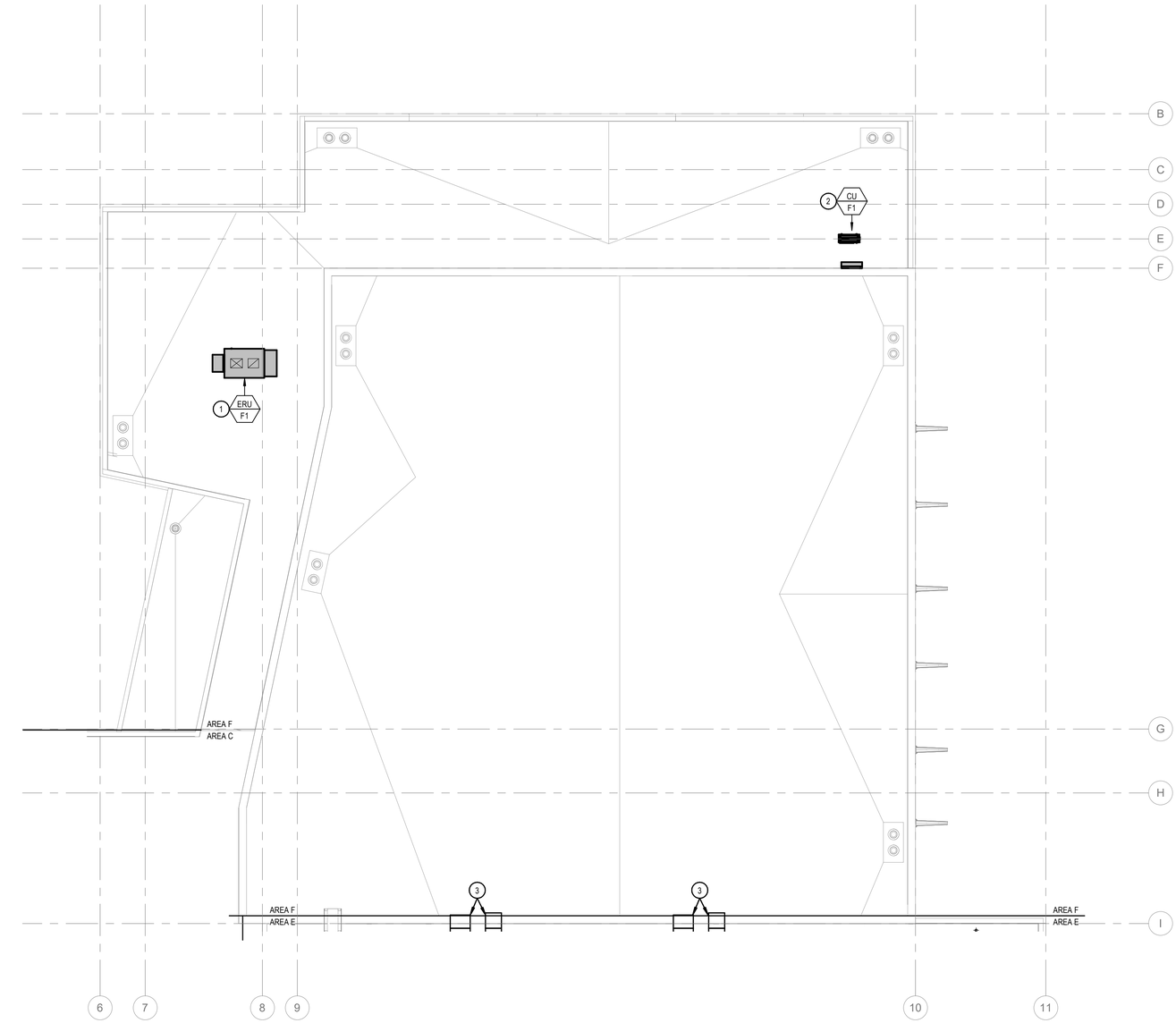
M4.5
HVAC ROOF PLAN - AREA E

KEYED NOTES:

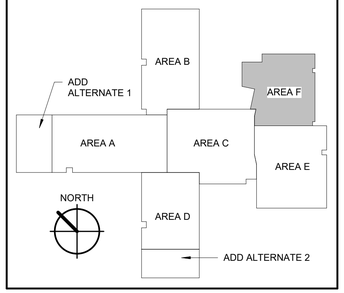
(#) SYMBOL USED FOR CALLOUT

1. SEE ROOFTOP UNIT MOUNTING DETAIL #4 ON SHEET M6.6 FOR INSTALLATION REQUIREMENTS.
2. SEE HEAT PUMP PLATFORM DETAIL #3 ON SHEET M6.2 FOR INSTALLATION REQUIREMENTS.
3. ROUTE DUCTWORK THROUGH WALL. SEE SHEET M2.6 FOR CONTINUATION.



1 HVAC ROOF PLAN - AREA F
1/8" = 1'-0"

Keyed Plan



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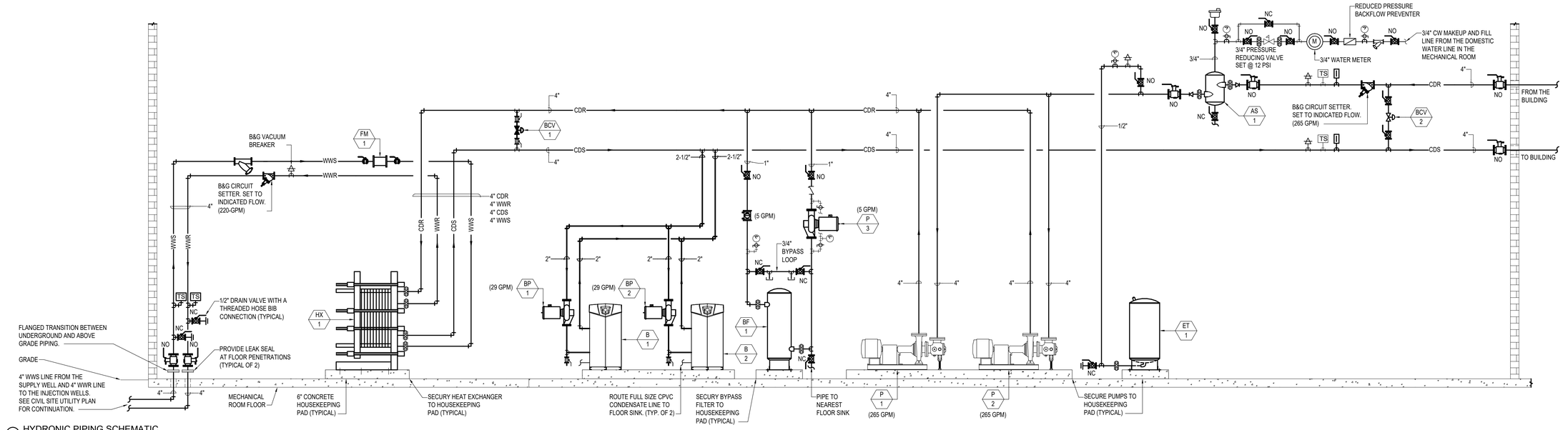
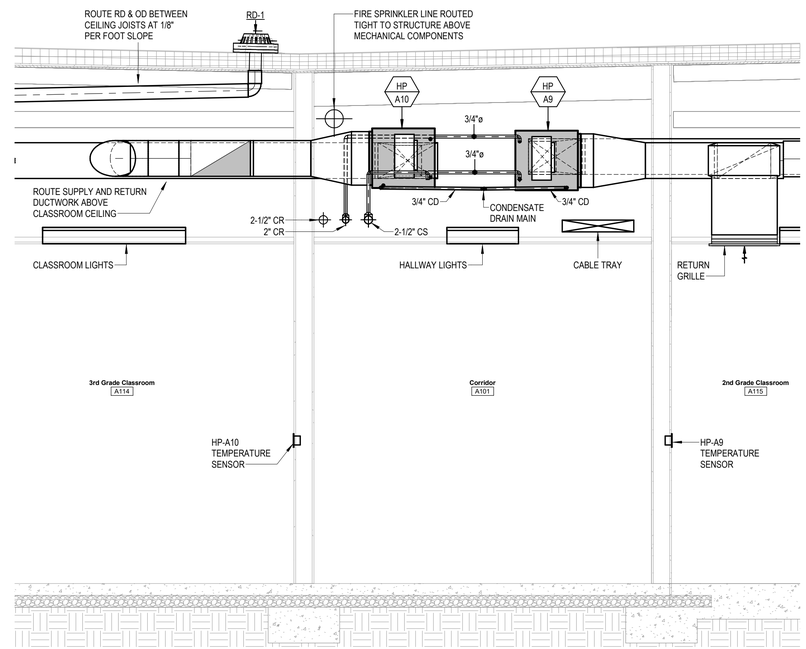
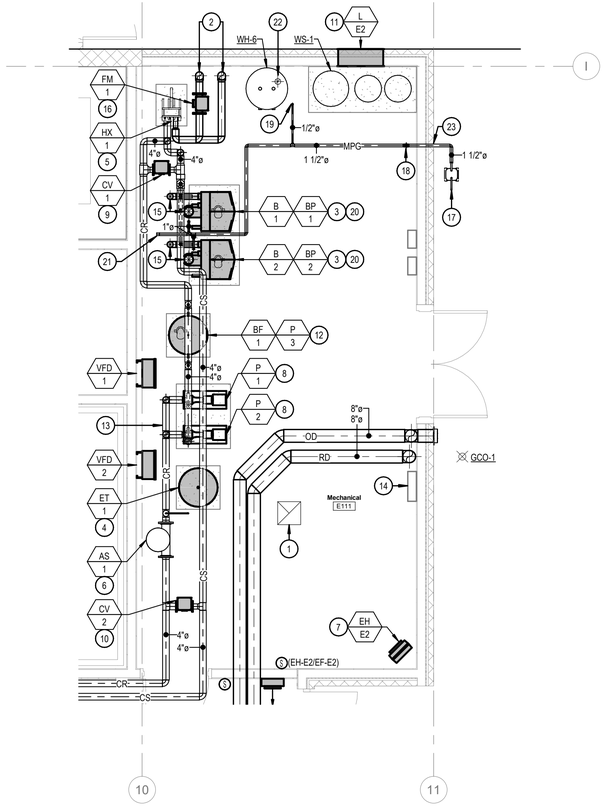
HVAC ROOF PLAN – AREA F



1 HYDRONIC PIPING SCHEMATIC
NTS



2 HALLWAY SECTION 1
1/2" = 1'-0"



3 ENLARGED MECHANICAL ROOM PLAN
1/4" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. EXTEND A FULL SIZE DUCT FROM THE ROOF-MOUNTED EXHAUST FAN THROUGH THE CEILING. TERMINATE THE DUCT WITH AN EXPANDED METAL SCREEN WITH A 1" FRAME. PAINT THE EXPANDED METAL AND ALL VISIBLE DUCTWORK THE SAME COLOR AS THE CEILING.
2. ROUTE 4" WWS & WWR PIPING BELOW GROUND IN SLEEVES. SEE CIVIL UTILITY PLANS FOR CONTINUATION.
3. SEE BOILER AND BOILER PUMP PIPING DETAIL #1 ON SHEET M6.4.
4. SEE FLOOR MOUNTED DIAPHGRAM EXPANSION TANK PIPING DETAIL #5 ON SHEET M6.4.
5. SEE HEAT EXCHANGER PIPING DETAIL #3 ON SHEET M6.4.
6. SEE SEDIMENT AIR SEPARATOR PIPING DETAIL #4 ON SHEET M6.4.
7. HANG ELECTRIC HEATER FROM CEILING PER MANUFACTURERS RECOMMENDATIONS.
8. SEE BASE-MOUNTED PUMP PIPING DETAIL #4 ON SHEET M6.3.
9. BYPASS CONTROL VALVE (BCV-1). SEE PIPING SCHEMATIC DETAIL #1 ON THIS SHEET.
10. BYPASS CONTROL VALVE (BCV-2). SEE PIPING SCHEMATIC DETAIL #1 ON THIS SHEET.
11. MOUNT LOUVER 8' A.F.F. AVOID INSTALLING DIRECTLY IN FRONT OF PIPING INSIDE MECHANICAL ROOM.
12. BYPASS FILTER AND INLINE PUMP. SEE PIPING SCHEMATIC DETAIL #1 ON THIS SHEET FOR PIPING REQUIREMENTS.
13. AVOID ROUTING HYDRONIC PIPING OVER VARIABLE FREQUENCY DRIVES.
14. DDC CONTROL PANEL.
15. ROUTE 4" VENT AND 6" FLUE TO ROOF. SEE SHEET M4.3 FOR CONTINUATION
16. WELL WATER FLOW METER. SEE PIPING SCHEMATIC DETAIL #1 ON THIS SHEET.
17. GAS SERVICE AND GAS METER FURNISHED AND INSTALLED BY INTERMOUNTAIN GAS COMPANY. CONNECT 1-1/2" MPG LINE TO METER. PROVIDE A PIPE SLEEVE AND SEALANT AROUND GAS PIPE PENETRATION THROUGH EXTERIOR WALL. PAINT ALL GAS PIPING OUTSIDE THE BUILDING TO MATCH WALL COLOR. SEE GAS SIZING CHART ON SHEET P7.2 FOR LOAD INFORMATION.
18. ROUTE 1-1/4" MPG LINE TO ROOF. SEE SHEET P3.5 FOR CONTINUATION.
19. ROUTE 1/2" MPG LINE DOWN TO WH-6. PROVIDE SHUTOFF VALVES AND PRESSURE REGULATOR.
20. ROUTE 1" MPG DOWN TO BOILER. PROVIDE WITH SHUTOFF VALVES AND PRESSURE REGULATOR.
21. ROUTE 1" MPG LINE INTO KITCHEN ABOVE CEILING AND CAP FOR FUTURE USE.
22. COMBINE 3" FLUE AND 3" VENT WITH CONCENTRIC VENT KIT. SEE DETAIL #3 ON SHEET M6.1 FOR INSTALLATION REQUIREMENTS. SEE SHEET M4.5 FOR CONTINUATION.
23. PROVIDE SLEEVE AND SEALANT AROUND GAS PIPING PENETRATION THROUGH EXTERIOR WALL. ALL EXTERIOR GAS PIPING SHALL BE COATED PER SPECIFICATIONS.

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M5.1
ENLARGED MECHANICAL PLANS

NOTES:

1. FOR TAKE-OFFS LARGER THAN 12" DIAMETER, USE A FACTORY MANUFACTURED DAMPER. LOUVERS & DAMPERS, INC. MODEL CD-600 WITH A LOCKING HAND QUADRANT OR EQUAL.
2. ROD CONTINUOUS ON 2" W.G. CLASS AND ON ALL DAMPERS OVER 12" DIAMETER.
3. BLADE 22 GAGE MIN., BUT NOT LESS THAN TWO GAGES MORE THAN THE DUCT GAGE.
4. PROVIDE REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE.
5. FOR DUCTS OVER 12" HIGH USE MULTIPLE BLADE DAMPERS (SEE FIG. C).
6. ALTERNATE MANUFACTURERS INCLUDE: AMERICAN WARMING, SAFE-AIR/DOWCO, J&J, LOUVERS & DAMPERS, RUSKIN, NAILOR, ARROW UNITED, POTTORFF, & CESCO.

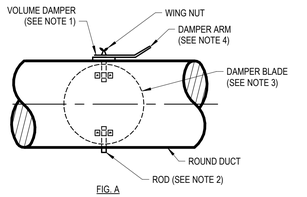


FIG. A

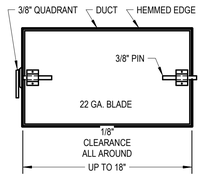


FIG. B

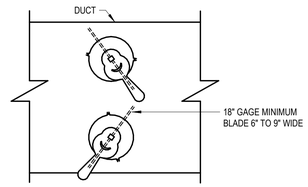


FIG. C
ELEVATION, TWO
BLADE ARRANGEMENT

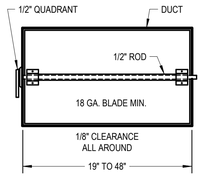


FIG. D

1 BALANCE DAMPER DETAIL
NTS

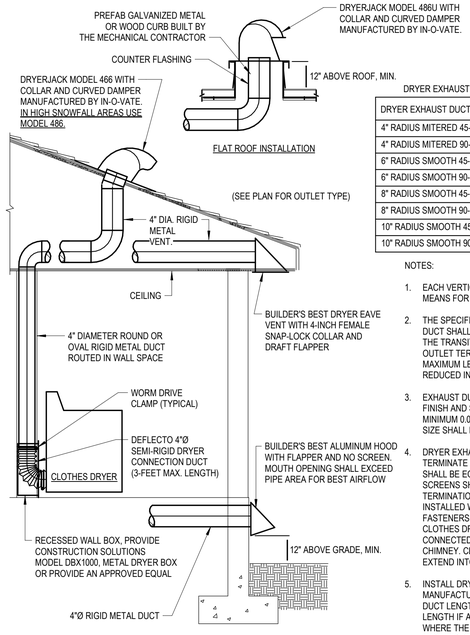


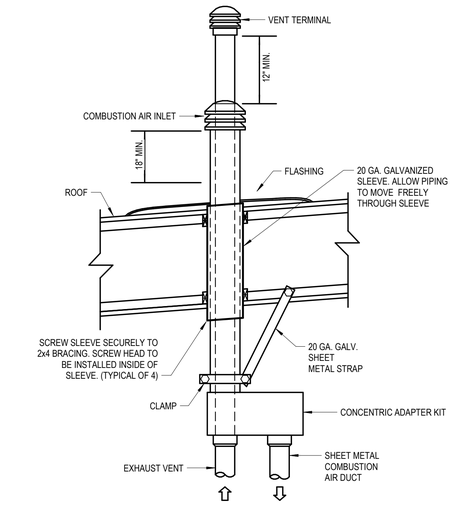
TABLE 504.6.4.1
DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH

DRYER EXHAUST DUCT FITTING TYPE	EQUIVALENT LENGTH
4" RADIUS MITERED 45-DEGREE ELBOW	2 FEET 6 INCHES
4" RADIUS MITERED 90-DEGREE ELBOW	5 FEET
6" RADIUS SMOOTH 45-DEGREE ELBOW	1 FEET
6" RADIUS SMOOTH 90-DEGREE ELBOW	1 FEET 9 INCHES
8" RADIUS SMOOTH 45-DEGREE ELBOW	1 FEET
8" RADIUS SMOOTH 90-DEGREE ELBOW	1 FEET 7 INCHES
10" RADIUS SMOOTH 45-DEGREE ELBOW	9 INCHES
10" RADIUS SMOOTH 90-DEGREE ELBOW	1 FEET 6 INCHES

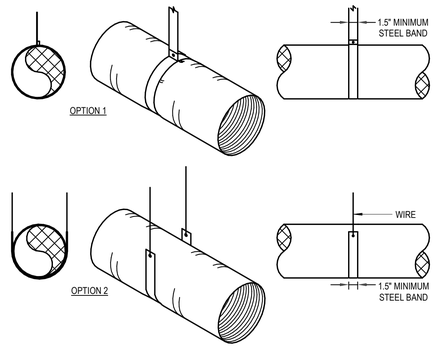
NOTES:

1. EACH VERTICAL RISER SHALL BE PROVIDED WITH A MEANS FOR CLEANOUT.
2. THE SPECIFIED MAXIMUM LENGTH OF THE EXHAUST DUCT SHALL BE 35 FEET FROM THE CONNECTION TO THE TRANSITION DUCT FROM THE DRYER TO THE OUTLET TERMINAL. WHERE FITTINGS ARE USED, THE MAXIMUM LENGTH OF EXHAUST DUCT SHALL BE REDUCED IN ACCORDANCE WITH TABLE 504.6.4.1.
3. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND SHALL BE CONSTRUCTED OF METAL A MINIMUM 0.016 INCH (0.4 MM) THICK. THE EXHAUST DUCT SIZE SHALL BE 4-INCHES IN DIAMETER.
4. DRYER EXHAUST DUCTS FOR CLOTHES DRYERS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST FLOW. CLOTHES DRYER EXHAUST DUCTS SHALL NOT BE CONNECTED TO A VENT CONNECTOR, VENT OR CHIMNEY. CLOTHES DRYER EXHAUST DUCTS SHALL NOT EXTEND INTO OR THROUGH DUCTS OR PLENUMS.
5. INSTALL DRYER VENT TERMINATION PER THE MANUFACTURER'S RECOMMENDATIONS. THE EXHAUST DUCT LENGTH CAN EXCEED THE 35-FEET SPECIFIED LENGTH IF APPROVED BY THE DRYER MANUFACTURER. WHERE THE EXHAUST DUCT EQUIVALENT LENGTH EXCEEDS 35 FEET, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG.

2 CLOTHES DRYER INSTALLATION DETAIL
NTS



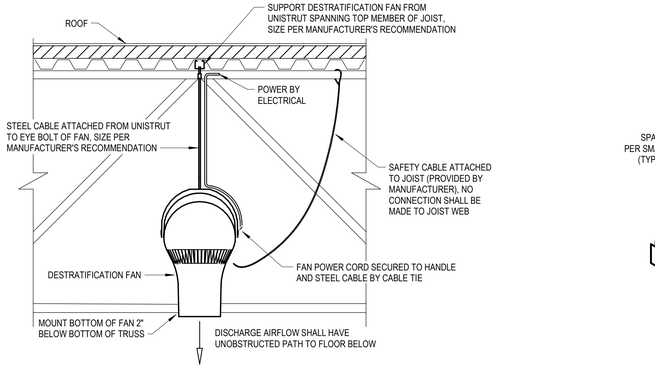
3 CONCENTRIC VENT DETAIL
NTS



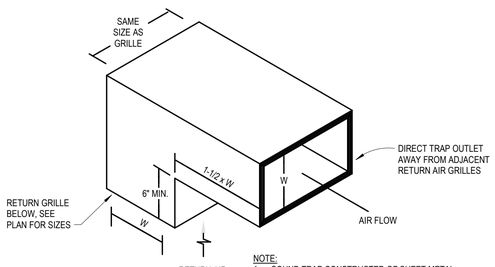
NOTES:

1. SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
2. FLEXIBLE DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
3. MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" ON CENTER.
4. ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
5. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 1-M OR APPROVED EQUAL.
6. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 5.0.
7. FLEXIBLE DUCTWORK IS FOR INDOOR USE ONLY. DO NOT INSTALL OR STORE PRODUCT WHERE EXPOSURE TO DIRECT SUNLIGHT CAN OCCUR. PROLONGED EXPOSURE TO SUNLIGHT MAY CAUSE DETERIORATION OF VAPOR BARRIER.
8. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCTWORK.
9. REPAIR TURN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B. IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCTWORK.
10. AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES, OR CONDUITS.
11. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250°F.
12. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE, OR IN CONTACT WITH THE GROUND.
13. DO NOT INSTALL FLEXIBLE DUCTWORK IN EXPOSED CEILING AREA.

8 FLEXIBLE DUCT SUPPORT DETAIL
NTS



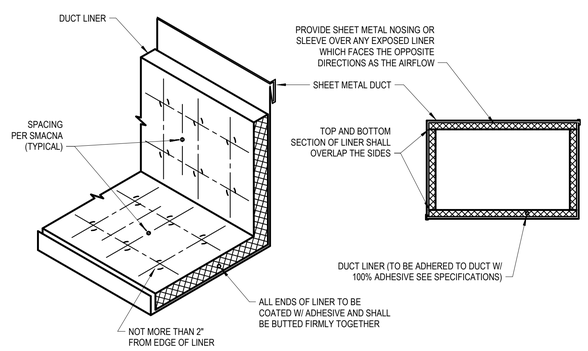
4 DESTRATIFICATION FAN DETAIL
NTS



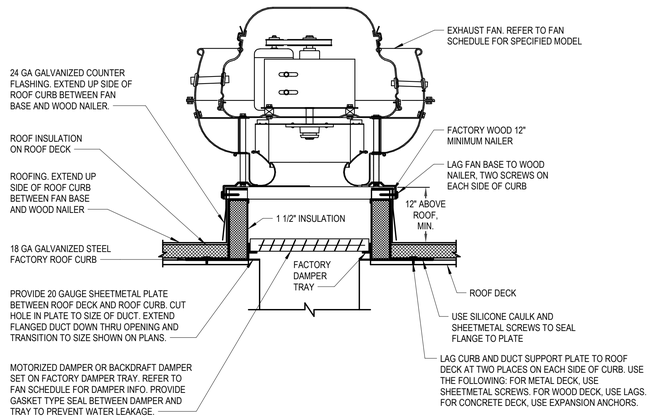
NOTE:
1. SOUND TRAP CONSTRUCTED OF SHEET METAL LINED W/ 1" THICK FIBERGLASS ACOUSTICAL INSULATION, OR RIGID FIBERGLASS DUCTBOARD
2. SEE RETURN GRILLE SCHEDULE FOR RETURN GRILLE DIMENSIONS.

6 SOUND TRAP DETAIL
NTS

METAL FASTENERS:
OMARK INSUL-PINS, DURO DYNE FASTENERS OR GRIP NAILS
INSTALLED BY GRIP NAIL AIR HAMMER OR AUTO FASTENER EQUIP



5 DUCT LINER DETAIL
NTS



7 EXHAUST FAN MOUNTING DETAIL
NTS

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PROFESSIONAL ENGINEER
LICENSED
16683
2/18/2022
STATE OF IDAHO
CHRISTOPHER DYKE

MUSGROVE
ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

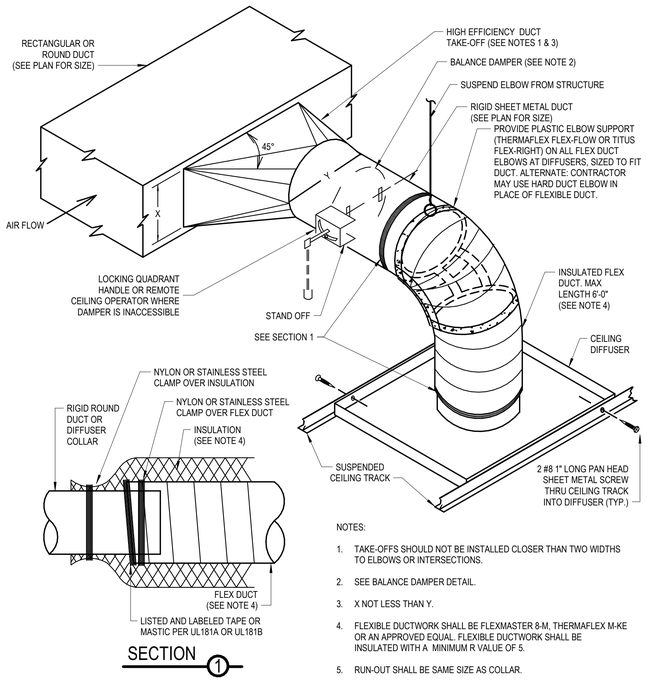
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

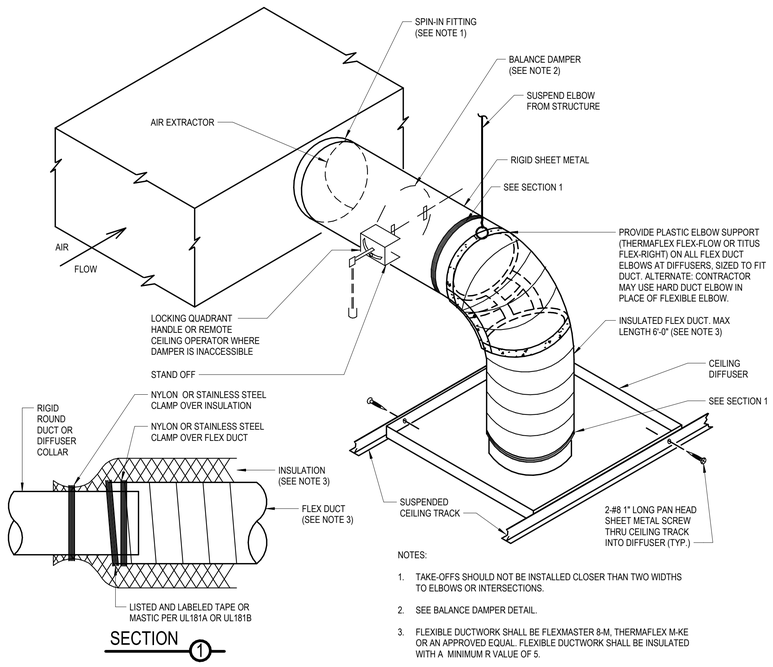
M6.1
MECHANICAL DETAILS



NOTES:

1. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.
2. SEE BALANCE DAMPER DETAIL.
3. X NOT LESS THAN Y.
4. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX M-KE OR AN APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R VALUE OF 5.
5. RUN-OUT SHALL BE SAME SIZE AS COLLAR.

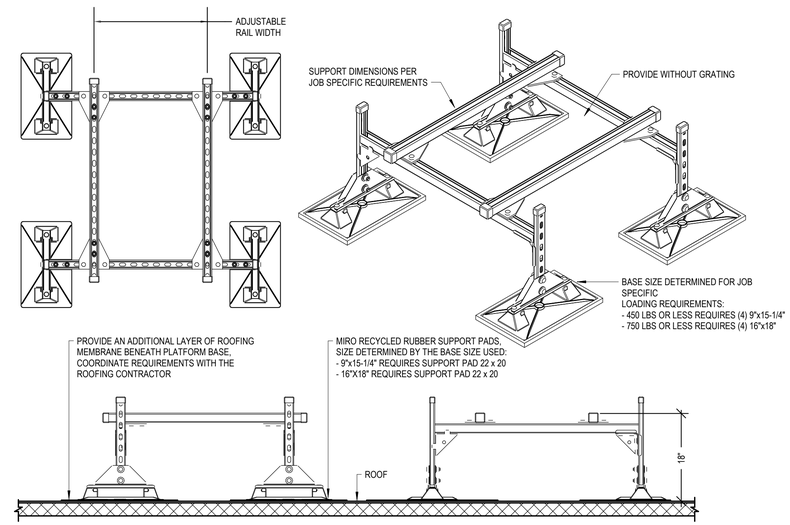
① DUCT TAKEOFF DETAIL - HIGH EFFICIENT
NTS



NOTES:

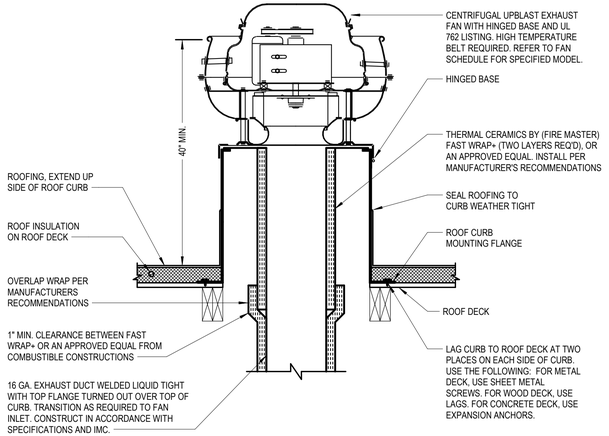
1. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.
2. SEE BALANCE DAMPER DETAIL.
3. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX M-KE OR AN APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R VALUE OF 5.
4. RUN-OUT SHALL BE SAME SIZE AS DIFFUSER COLLAR.

② DUCT TAKEOFF DETAIL - SPIN IN
NTS



NOTES:
1. PROVIDE WITH MIRO INDUSTRIES MODEL HD, HEAVY DUTY MECHANICAL GALVANIZED ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS AND RAIL WIDTH
2. BOLT EQUIPMENT TO MECHANICAL SUPPORT, A MINIMUM OF (4) LOCATIONS
3. APPROVED ALTERNATE MANUFACTURERS: UNISTRUT AND ROOF-PRO

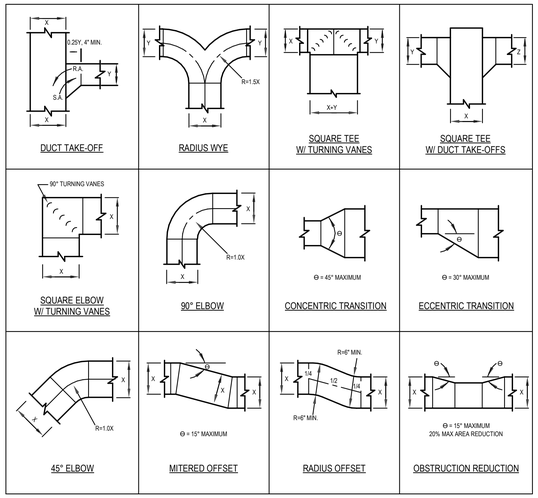
③ ROOFTOP HEAT PUMP PLATFORM DETAIL
NTS



NOTES:

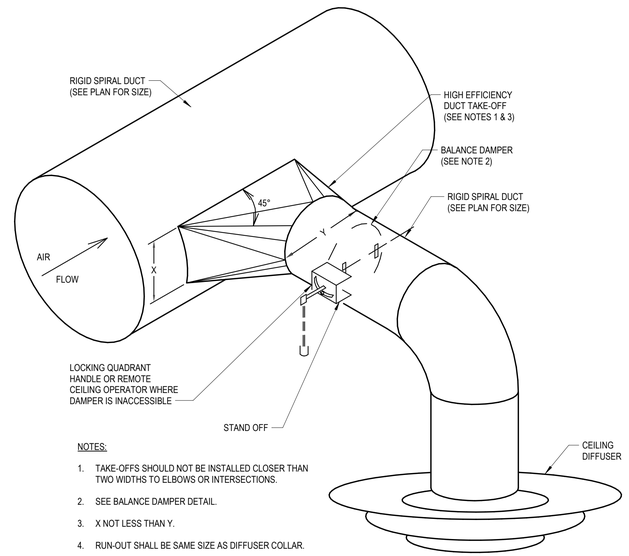
1. EXHAUST FAN SHALL HAVE A MINIMUM OF 10 FEET CLEARANCE BETWEEN THE OUTLET AND AIR INTAKES, ADJACENT WALLS OR BUILDINGS, AND PROPERTY LINES.
2. EXHAUST DUCT SEAMS AND JOINTS SHALL BE CONTINUOUSLY EXTERNALLY WELD OR BRAZED LIQUID TIGHT.
3. HORIZONTAL DUCT RUNS LESS THAN 75 FEET IN LENGTH SHALL SLOPE NOT LESS THAN 1/4 INCH PER FOOT TOWARD THE HOOD. HORIZONTAL DUCT RUNS GREATER THAN 75 FEET SHALL SLOPE NOT LESS THAN 1 INCH PER FOOT TOWARD THE HOOD.
4. EXHAUST DUCT SYSTEM SHALL HAVE CLEANOUTS AT ALL BENDS, AND NOT MORE THAN 20' ON HORIZONTAL RUNS AS REQUIRED BY CODE.
5. ANY STEEL EXHAUST DUCT SYSTEM EXPOSED TO THE OUTSIDE ATMOSPHERE SHALL BE PROTECTED AGAINST CORROSION WITH GALVANIZATION, PAINTING, OR WATERPROOF INSULATION.

④ KITCH HOOD - TYPE 1 EXHAUST FAN DUCT DETAIL
NTS



NOTE:
ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA, SPECIFICATIONS AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

⑤ RECTANGULAR DUCT FITTING DETAILS
NTS



NOTES:

1. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.
2. SEE BALANCE DAMPER DETAIL.
3. X NOT LESS THAN Y.
4. RUN-OUT SHALL BE SAME SIZE AS DIFFUSER COLLAR.

⑥ DUCT TAKEOFF DETAIL - SPIRAL DUCT
NTS

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.

project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

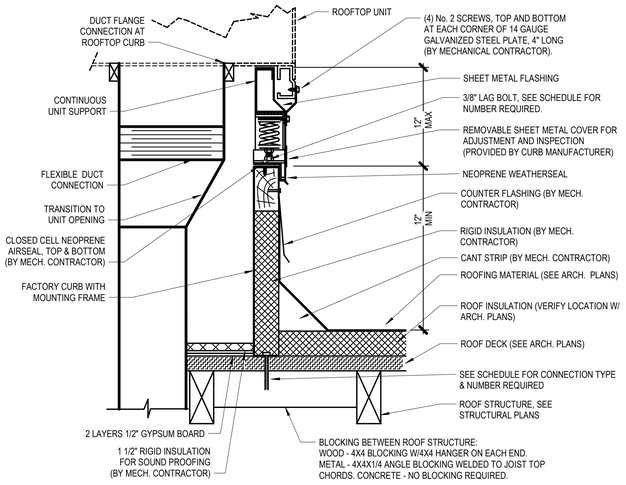
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M6.2
MECHANICAL DETAILS



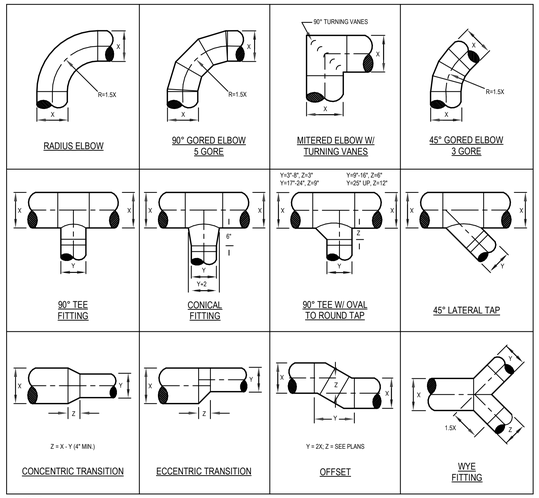
CURB TO ROOF CONNECTION SCHEDULE

NOMINAL ROOFTOP UNIT CAPACITY	MAX. WEIGHTS	TOTAL LATERAL FORCE (Fp)	NO. & TYPE OF CONNECTION (EQUALLY SPACED)		
			ROOF STRUCTURE TYPE		
			METAL	WOOD	CONCRETE
7-8 TONS	1050 LBS	1135 LBS	(6) 1/2" LAG BOLT	(6) 1/2" LAG BOLT	(6) 3/8" EXPANSION BOLT
10-12 TONS	1300 LBS	1405 LBS	(8) 1/2" LAG BOLT	(8) 1/2" LAG BOLT	(8) 3/8" EXPANSION BOLT
15-18 TONS	2500 LBS	2700 LBS	(14) 1/2" LAG BOLT	(14) 1/2" LAG BOLT	(14) 3/8" EXPANSION BOLT
20-25 TONS	2800 LBS	3025 LBS	(16) 1/2" LAG BOLT	(16) 1/2" LAG BOLT	(16) 3/8" EXPANSION BOLT

COMPLIES WITH THE INTERNATIONAL BUILDING CODE

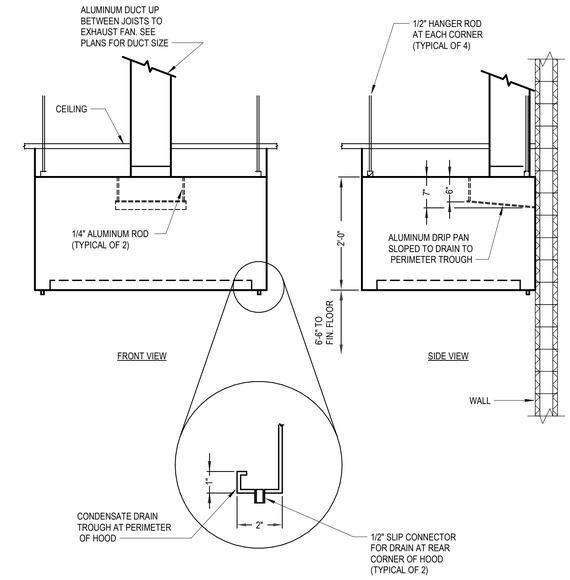
MANUFACTURER SHALL PROVIDE CALCULATIONS FOR THE CURB MOUNTED SPRING RAIL SHOWING COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE (LATEST ADOPTED EDITION).

1 ROOFTOP UNIT - CURB MOUNTED SPRING RAIL DETAIL
NTS



NOTE:
ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA, SPECIFICATIONS, AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

2 ROUND DUCT FITTING DETAILS
NTS



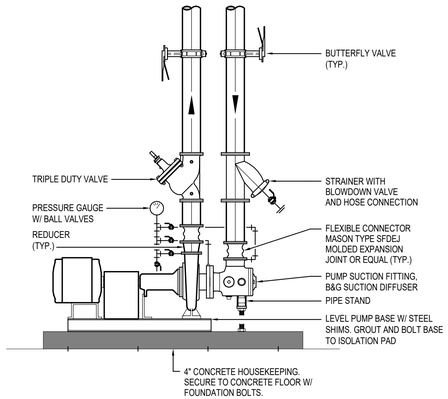
NOTES:

1. HOODS SHALL BE CONSTRUCTED OF 16 GAUGE ALUMINUM.
2. PROVIDE ALUMINUM SHEET METAL CLOSURE BETWEEN HOOD AND CEILING.
3. HOOD SHALL OVERHANG DISHWASHER 12" ON ALL OPEN SIDES. SEE PLANS FOR HOOD SIZE.

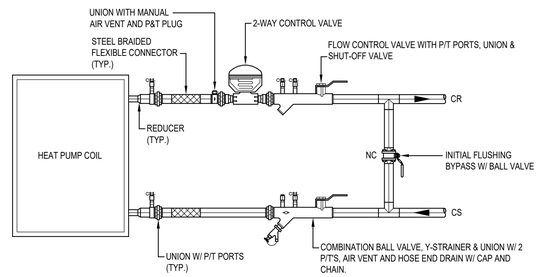
3 TYPE II DISHWASHER HOOD (SINGLE WALL MOUNTED)
NTS

NOTES:

1. PIPING SHALL BE SUPPORTED INDEPENDENTLY FROM THE CONNECTIONS TO THE PUMP.
2. AFTER THE INSTALLATION IS COMPLETE, THE PUMP SHALL BE ALIGNED WITH A DIAL INDICATOR OR MICROMETER CALIPERS.



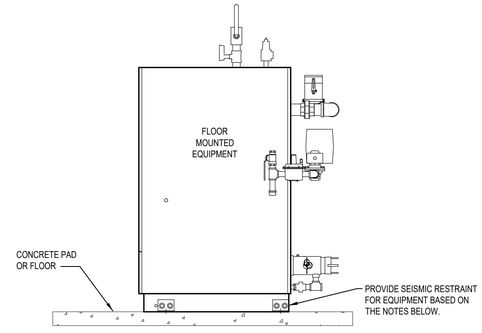
4 BASE MOUNTED PUMP DETAIL - END SUCTION
NTS



NOTE:

1. ALL COMPONENTS SHOWN SHALL BE EQUAL TO AUTOFLOW FLOW DESIGN, INC.

5 COIL PIPING WITH 2-WAY VALVE
NTS



NOTES:

1. FLOOR MOUNTED EQUIPMENT WEIGHING 400 POUNDS OR LESS DOES NOT REQUIRE SEISMIC RESTRAINT.
2. FLOOR MOUNTED EQUIPMENT WEIGHING MORE THAN 400 POUNDS REQUIRES INDIVIDUALLY DESIGNED SEISMIC RESTRAINTS. RESTRAINTS SHALL BE ENGINEERED AND PROVIDED BY EQUIPMENT MANUFACTURER, MASON INDUSTRIES, OR APPROVED EQUAL. RESTRAINTS SHALL BE ENGINEERED PER THE CURRENT EDITION OF THE UNIFORM BUILDING CODE, FOR THE SEISMIC ZONE IN WHICH THE EQUIPMENT IS TO BE INSTALLED.
3. SEE EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT WEIGHTS.

SEISMIC RESTRAINT FOR FLOOR MOUNTED EQUIPMENT DETAIL
6 NTS

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
#

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

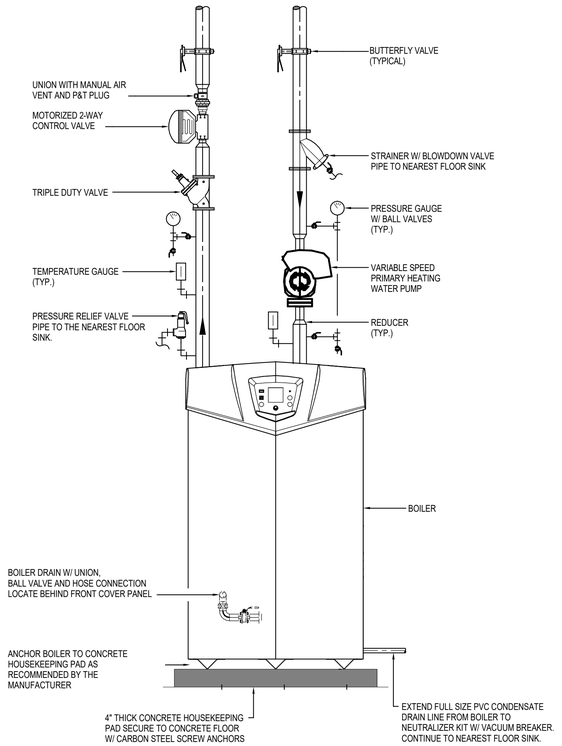
DRAWN BY: Author
CHECKED BY: Checker

BID SET

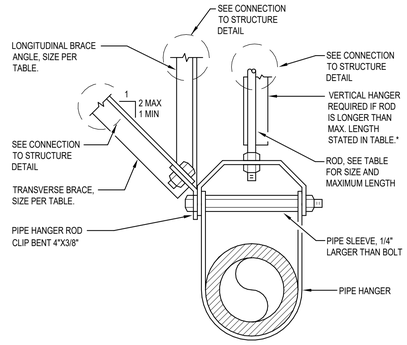
DRAWING NO.:
M6.3
MECHANICAL DETAILS

NOTES:

1. PIPING SHALL BE SUPPORTED INDEPENDENTLY FROM THE CONNECTIONS TO THE BOILER.
2. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE PURPOSES.
3. INSTALL ALL GAUGES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE / VIEWING PURPOSES.
4. ALL BUTTERFLY VALVES MOUNTED HIGHER THAN ABOVE 7'-0" A.F.F SHALL BE PROVIDED W/ A CHAIN WHEEL AND GUIDES.



1 BOILER PIPING DETAIL
NTS



PIPE SIZE (IN.) [2,3]	BRACE SPACING (FT.)		TRANSVERSE BRACE ANGLE [11]	LONGITUDINAL BRACE ANGLE [11]	BOLT SIZE (IN.)	ROD (IN.)		VERTICAL HANGER*	CONNECTION TYPE [4]
	TRANS.	LONG.				SIZE	MAX LENGTH		
1-3	40	80	2 1/2 X 2 1/2 X 16ga	2 1/2 X 2 1/2 X 16ga	3/8	1/2	25	2 X 2 X 16ga	C
4	40	80	2 1/2 X 2 1/2 X 16ga	2 1/2 X 2 1/2 X 12ga	3/8	5/8	31	2 X 2 X 16ga	D
5	40	80	2 1/2 X 2 1/2 X 16ga	2 1/2 X 2 1/2 X 12ga	1/2	7/8	31	2 X 2 X 16ga	E
6	40	40	2 1/2 X 2 1/2 X 12ga	2 1/2 X 2 1/2 X 12ga	1/2	3/4	37	2 1/2 X 2 1/2 X 16ga	D
8	40	40	2 1/2 X 2 1/2 X 12ga	2 1/2 X 2 1/2 X 12ga	5/8	5/8	43	2 1/2 X 2 1/2 X 12ga	F
10	20	20	2 1/2 X 2 1/2 X 12ga	2 1/2 X 2 1/2 X 12ga	3/4	7/8	43	2 1/2 X 2 1/2 X 12ga	E
12	20	20	3 X 3 X 12ga	3 X 3 X 12ga	3/4	7/8	43	2 1/2 X 2 1/2 X 12ga	F
14	20	20	3 X 3 X 12ga	3 X 3 X 12ga	3/4	1	50	2 1/2 X 2 1/2 X 12ga	F
16	20	20	3 X 3 X 12ga	3 X 3 X 12ga	3/4	1 1/4	62	2 1/2 X 2 1/2 X 12ga	F

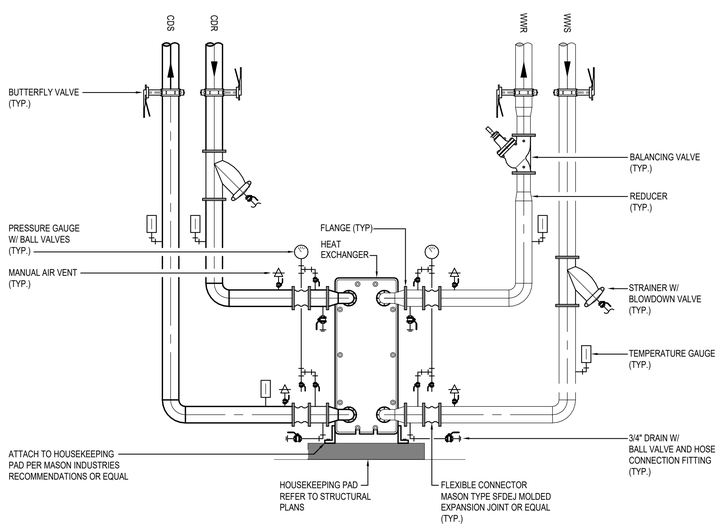
NOTES:

1. PIPING LOCATED IN MECHANICAL ROOMS 1 1/4" IN DIAMETER OR LARGER SHALL BE BRACED, OTHERWISE ALL PIPING 2 1/2" IN DIAMETER OR LARGER SHALL BE BRACED.
2. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH NEED NOT BE BRACED. (12" LENGTH SHALL BE MEASURED FROM TOP OF PIPE TO BOTTOM OF STRUCTURAL SUPPORT).
3. ALL GAS PIPING 1" IN DIAMETER AND LARGER SHALL BE BRACED.
4. SEE CONNECTION TO STRUCTURE DETAIL FOR ADDITIONAL REQUIREMENTS.
5. ALL PIPING RUNS (LENGTH OF PIPE WITHOUT CHANGE IN DIRECTION) SHALL HAVE A MINIMUM OF TWO TRANSVERSE BRACES AND ONE LONGITUDINAL BRACE.
6. BRANCH LINES SHALL NOT BE USED TO BRACE MAIN LINES.
7. A RIGID PIPING SYSTEM SHALL NOT BE BRACED TO DISSIMILAR PARTS OF THE BUILDING THAT MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE, i.e. AT WALL AND AT THE ROOF.
8. VERTICAL RISERS SHALL BE LATERALLY SUPPORTED WITH A RISER CLAMP AT EACH FLOOR.
9. PIPING JOINED WITH A SHIELD AND CLAMP ASSEMBLY SHALL BE BRACED ON EACH SIDE OF A 90° OR MORE CHANGE IN DIRECTION.
10. FOR GAS PIPING, TRANSVERSE AND LONGITUDINAL BRACING SHALL BE AT ONE-HALF THE SPACING SHOWN IN THE TABLE.
11. PRE-STRETCHED AIRCRAFT CABLE MAY BE USED IN LIEU OF ANGLE BRACE. CABLE SHALL BE SIZED AND INSTALLED PER SMACNA. BRACING TYPES SHALL NOT BE MIXED.

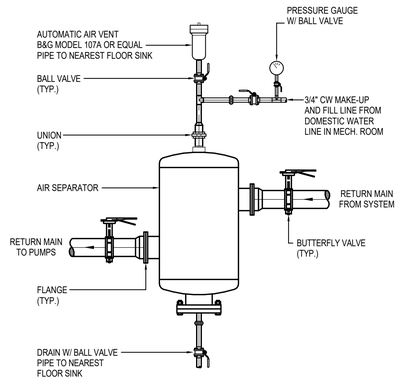
2 SEISMIC BRACING FOR PIPE DETAIL
NTS

NOTES:

1. PIPING SHALL BE SUPPORTED INDEPENDENTLY FROM THE CONNECTIONS TO THE HEAT EXCHANGER.



3 HEAT EXCHANGER PIPING DETAIL
NTS

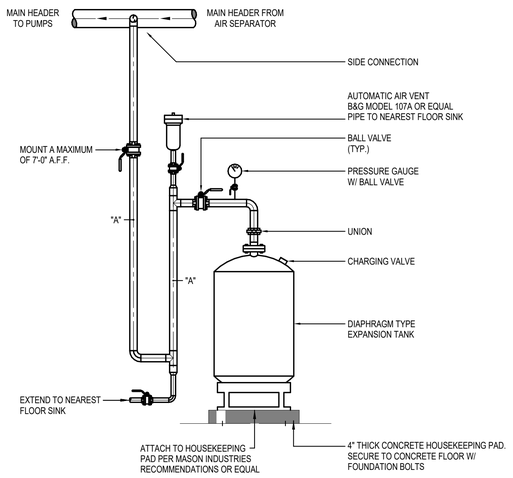


NOTES:

1. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE PURPOSES.
2. INSTALL ALL GAUGES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE / VIEWING PURPOSES.
3. ALL BUTTERFLY VALVES MOUNTED HIGHER THAN ABOVE 7'-0" A.F.F SHALL BE PROVIDED W/ A CHAIN WHEEL AND GUIDES.

4 SEDIMENT AIR SEPARATOR DETAIL
NTS

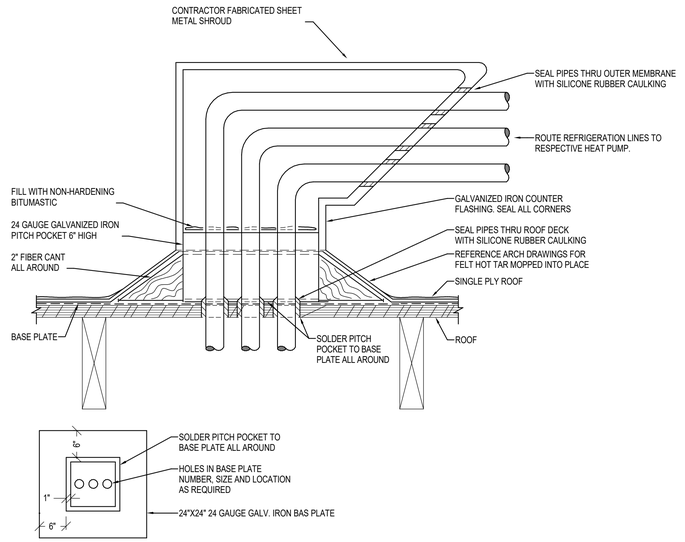
WESSELS MODEL NO.	PIPE SIZE "A"
NLAP 40, 60	3/4"
NLAP 100, 150	1"
NLAP 220	1-1/2"



NOTES:

1. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE PURPOSES.
2. INSTALL ALL GAUGES IN ACCESSIBLE LOCATIONS FOR VIEWING PURPOSES.

5 FLOOR MOUNTED DIAPHRAGM EXP TANK DETAIL
NTS



6 TYPICAL PIPING THROUGH ROOF DETAIL
NTS

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
#

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

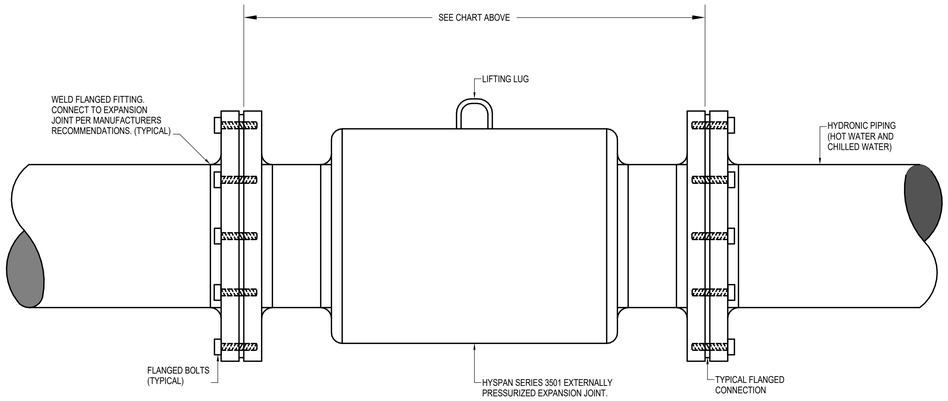
DRAWN BY: Author
CHECKED BY: Checker

BID SET

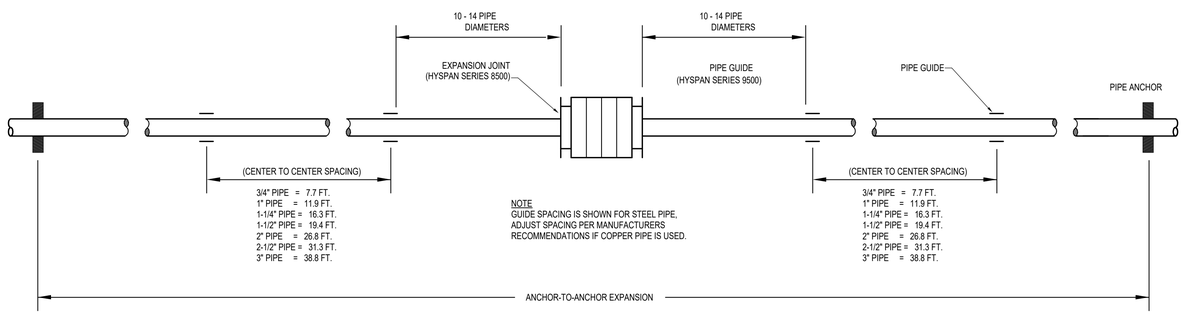
DRAWING NO.:

M6.4
MECHANICAL DETAILS

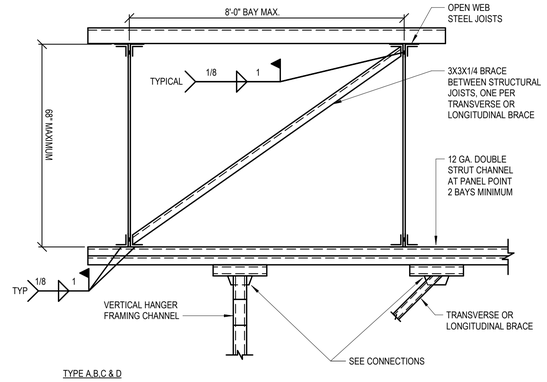
PIPE SIZE (IN.)	AXIAL SPRING RATE (LBS./IN.)	SERIES 3501	
		OVERALL LENGTH (IN.)	WEIGHT (LBS.)
2	33	24.75	31
2-1/2	79	24.75	44
3	66	24.75	60
4	121	24.75	89
5	313	24.75	95
6	348	26.50	141



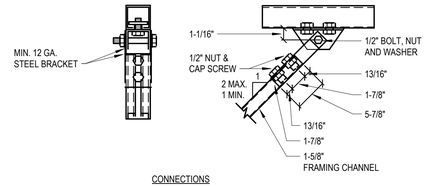
1 EXPANSION JOINT CONNECTION DETAIL
12" = 1'-0"



2 EXPANSION JOINT DETAIL
12" = 1'-0"



TYPE A,B,C & D

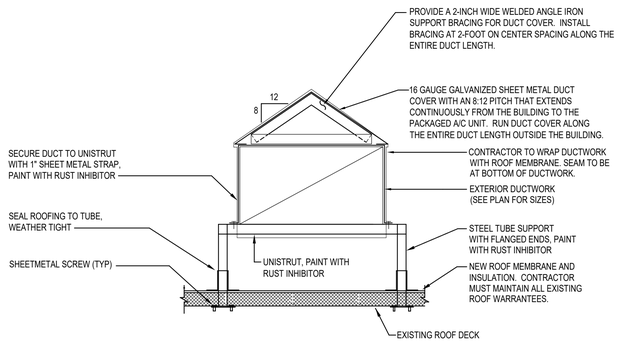


CONNECTIONS

TYPE	MAX. LOAD CAPACITY[1] (lb)	MACHINE BOLT END OF BRACE (in)	SPREADER SIZE	ANGLE TO SUPPORTING STRUCTURAL MEMBER[2]
A	1040	3/8	C4x5.4	3-1/2x2-1/2x3/8x0 ft, 3 in LLH
B	1415	3/8	C4x5.4	5x3x3/8x0 ft, 3 in LLH
C	1586	1/2	C5x6.7	2, 4x3x3/8x0 ft, 4 in LLH
D	2020	1/2	C6x8.5	2, 5x3x3/8x0 ft, 4 in LLH
E	2870	5/8	C8x11.5	2, 6x3-1/2x3/8x0 ft, 4 in LLH
F	4600	3/4	C9x13.4	2, 5x3x3/8x0 ft, 10 in LLH
G	7040	7/8	C10x15.3	2, 6x3-1/2x1/2x0 ft, 11-1/2 in LLH
H	9240	1	C12x20.7	2, 8x4x3/4x1 ft, 1-1/2 in LLH

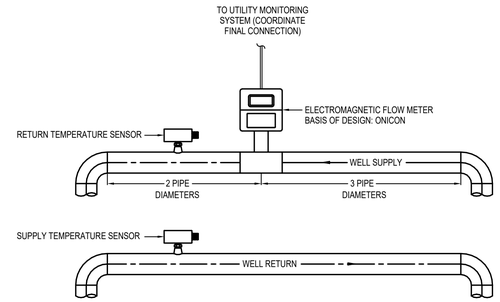
NOTES:
1. MAXIMUM LOAD CAPACITY IS FOR GENERAL INFORMATION ONLY
2. LLH = LONG LEG HORIZONTAL

3 SEISMIC CONNECTION TO OPEN WEB STEEL JOISTS
NTS



NOTE:
PROVIDE SUPPORT AT DUCT ATTACHMENT TO UNIT, AT END OF DUCT RUN AND IN THE CENTER OR AT AN ELBOW.

4 ROOF MOUNTED DUCTWORK SUPPORT DETAIL
12" = 1'-0"



5 FLOW METER DETAIL
12" = 1'-0"

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
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208.336.3443

PROFESSIONAL ENGINEER LICENSED Christopher D. Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

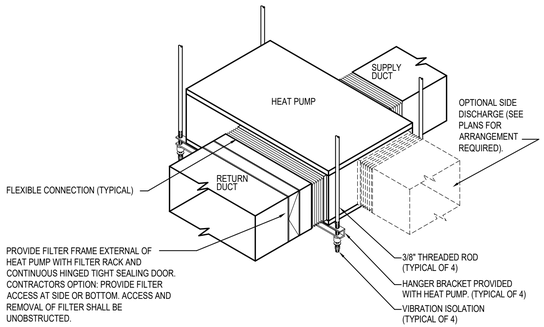
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

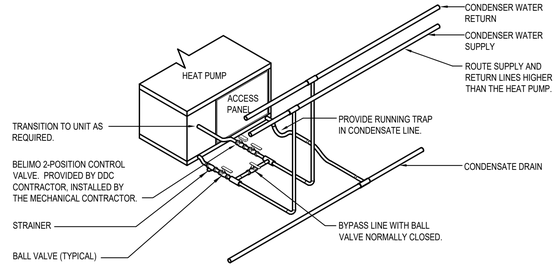
BID SET

DRAWING NO.:
M6.5
MECHANICAL DETAILS



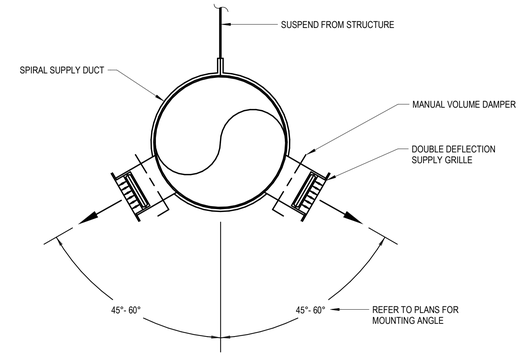
NOTE:
1. COORDINATE EXACT LOCATION OF UNITS WITH LIGHTS & ELECTRICAL CONTRACTOR. PROVIDE REQUIRED ELECTRICAL CLEARANCES PER N.E.C.
2. HOSE KITS MUST BE FLAME RETARDANT TYPE IF CEILING RETURN AIR PLENUM IS USED.

1 HEAT PUMP MOUNTING DETAIL
12" = 1'-0"

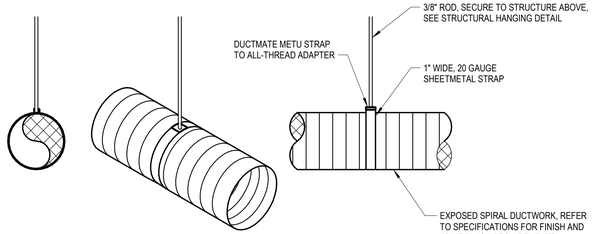


NOTE:
1. COORDINATE EXACT LOCATION OF UNITS WITH LIGHTS & ELECTRICAL CONTRACTOR. PROVIDE REQUIRED ELECTRICAL CLEARANCES PER N.E.C.

2 HEAT PUMP PIPING DETAIL
12" = 1'-0"



SPIRAL DUCT DETAIL
N.T.S.



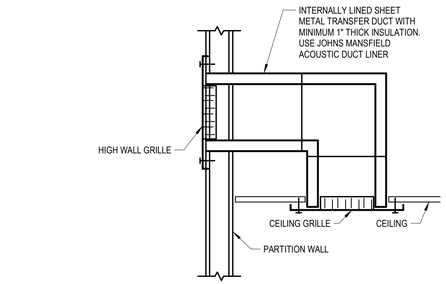
3 SPIRAL DUCT SUPPORT DETAIL (EXPOSED)
NTS

CURB TO ROOF CONNECTION SCHEDULE

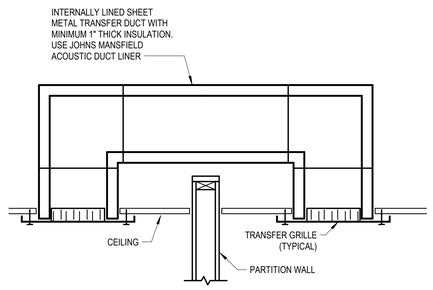
NOMINAL ROOFTOP UNIT CAPACITY	MAX. WEIGHTS	TOTAL LATERAL FORCE (Fp)	NO. & TYPE OF CONNECTION (EQUALLY SPACED)		
			ROOF STRUCTURE TYPE		
			METAL	WOOD	CONCRETE
3-6 TONS	750 LBS	810 LBS	(4) 1/2" LAG BOLT	(4) 1/2" LAG BOLT	(4) 3/8" EXPANSION BOLT

COMPLIES WITH THE INTERNATIONAL BUILDING CODE

4 ROOFTOP UNIT MOUNTING DETAIL
NTS

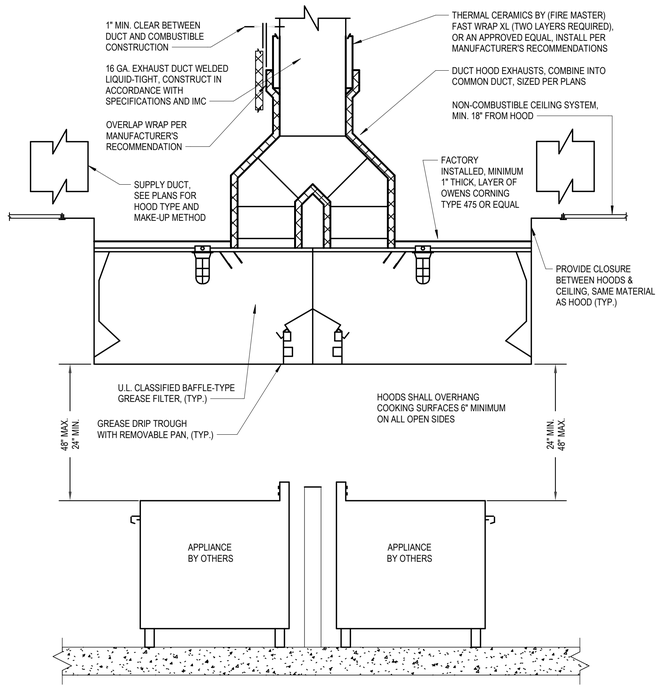


OPTION 1



OPTION 2

5 TRANSFER DUCT DETAIL
NTS



6 TYPE I KITCHEN HOOD DETAIL (DOUBLE ISLAND MOUNTED)
NTS

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions

#	Description	Date

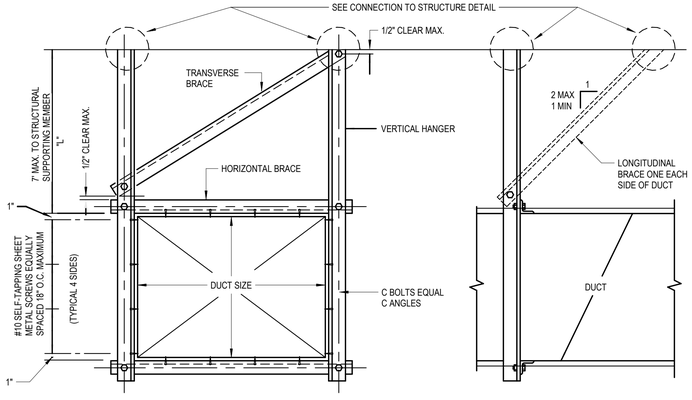
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
M6.6
MECHANICAL DETAILS

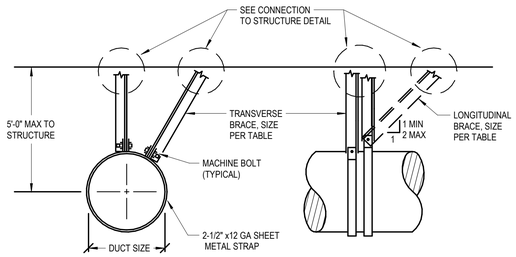


MAX. DUCT SIZE (in.)	VERTICAL HANGER ANGLE	TRANSVERSE BRACE ANGLE [10]	HORIZONTAL BRACE ANGLE	LONGITUDINAL BRACE ANGLE [10]	BOLT SIZE (in.)	MAX. WEIGHT PER FT. (lb) [8]	CONNECTION TYPE [9]
30x30	4x4x14ga	2-1/2x2-1/2x12ga	2x2x16ga	3x3x16ga	3/8	17	B
42x42	4x4x12ga	2-1/2x2-1/2x16ga	2-1/2x2-1/2x16ga	3x3x12ga	3/8	29	C
54x54	3x3x1/4ga	2-1/2x2-1/2x12ga	2-1/2x2-1/2x16ga	3x3x12ga	3/8	46	D
60x60	3x3x1/4ga	3x3x12ga	3x3x16ga	3x3x12ga	1/2	54	D
84x84	5x3x1/4ga	3x3x12ga	4x4x14ga	3x3x12ga	5/8	103	F
96x96	5x3x3/8ga	4x4x12ga	4x4x12ga	4x4x12ga	5/8	129	F
54x28	4x4x12ga	2-1/2x2-1/2x12ga	2-1/2x2-1/2x16ga	3x3x12ga	1/2	34	E
60x30	4x4x12ga	3x3x12ga	3x3x16ga	3x3x12ga	1/2	39	E

NOTES:

1. BRACE ALL DUCTS WITH CROSS SECTIONAL AREAS OF 6 SQ. FT. AND LARGER. BRACE FLAT OVAL DUCTS IN THE SAME MANNER AS RECTANGULAR DUCTS.
2. NO BRACING IS REQUIRED IF THE DUCT IS SUSPENDED BY HANGER 12 IN. OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE DUCT TO THE BOTTOM OF SUPPORT WHERE THE HANGER IS ATTACHED. HANGERS MUST BE POSITIVELY ATTACHED TO THE DUCT WITHIN 2 INCHES OF THE TOP OF THE DUCT WITH A MINIMUM OF TWO #10 SHEET METAL SCREWS.
3. PROVIDE TRANSVERSE BRACING AT A 30 FOOT INTERVAL OR AT BOTH ENDS IF THE DUCT RUN IS LESS THAN THE SPECIFIED INTERVAL. TRANSVERSE BRACING WILL BE INSTALLED AT EACH DUCT TURN AND AT EACH END OF A DUCT RUN, WITH A MINIMUM OF ONE BRACE AT EACH END.
4. PROVIDE LONGITUDINAL BRACING AT A 60 FOOT INTERVAL WITH AT LEAST ONE BRACE PER DUCT RUN. TRANSVERSE BRACING FOR ONE DUCT SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR A DUCT SECTION AT 90° TURNS IF THE BRACING IS INSTALLED WITHIN TWO TIMES THE DUCT WIDTH OF THE INTERSECTION OF BOTH DUCTS AND THE BRACING IS SIZED FOR THE LARGER DUCT.
5. DUCT JOINTS WILL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS. WALLS (INCLUDING GYPSUM BOARD NON-LOAD BEARING PARTITIONS) THAT HAVE DUCTS RUNNING THROUGH THEM MAY REPLACE A TYPICAL TRANSVERSE BRACE. PROVIDE SOLID BLOCKING AROUND DUCT PENETRATIONS AT ALL STUD WALL CONSTRUCTION.
6. UN-BRACED DUCTS WILL BE INSTALLED WITH A 6 INCH MINIMUM CLEARANCE TO VERTICAL CEILING HANGER WIRES.
7. WHEN A COMBINATION OF DUCTS IS USED IN LIEU OF ONE DUCT, AT LEAST 2 SIDES OF EACH DUCT MUST BE CONNECTED TO VERTICAL OR HORIZONTAL ANGLES AND THE COMBINED WEIGHT SHALL NOT EXCEED THAT GIVEN IN THE TABLE. (ADD HORIZONTAL ANGLES IF REQUIRED).
8. MAXIMUM WEIGHT OF DUCT OR COMBINATIONS OF DUCTS IS PER LINEAR FOOT. FOR DUCTS WEIGHING MORE THAN THE MAXIMUM WEIGHT PER FOOT, USE THE NEXT HIGHER DUCT SIZE.
9. SEE CONNECTION TO STRUCTURE DETAIL.
10. PRE-STRETCHED AIRCRAFT CABLE MAY BE USED IN LIEU OF ANGLE BRACE. CABLE SHALL BE SIZED AND INSTALLED PER SMACNA. BRACING TYPES SHALL NOT BE MIXED.

1 SEISMIC BRACING FOR RECTANGULAR DUCTS
NTS

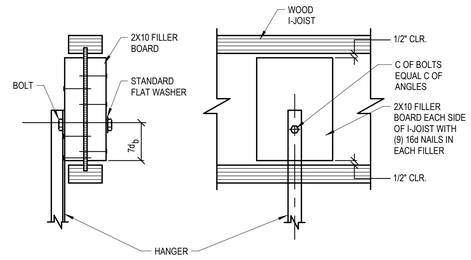


MAX DUCT SIZE (in.) [10]	VERTICAL HANGER ANGLE	DIAGONAL BRACE ANGLE [3,4,11]	BOLT SIZE (in.)	CONNECTION TYPE [9]	MAX WEIGHT PER FT. (lb) [8]
28	2x2x16ga	2x2x16ga	3/8	A	14
36	2x2x16ga	2x2x16ga	3/8	A	16

NOTES:

1. BRACE ALL DUCTS 28" IN DIAMETER AND LARGER. BRACE FLAT OVAL DUCTS IN THE SAME MANNER AS RECTANGULAR DUCTS.
2. NO BRACING IS REQUIRED IF THE DUCT IS SUSPENDED BY HANGERS 12 IN. OR LESS IN LENGTH,AS MEASURED FROM THE TOP OF THE DUCT TO THE BOTTOM OF SUPPORT WHERE THE HANGER IS ATTACHED. HANGERS MUST BE POSITIVELY ATTACHED TO THE DUCT WITHIN 2 INCHES OF THE TOP OF THE DUCT WITH A MINIMUM OF TWO #10 SHEET METAL SCREWS.
3. PROVIDE TRANSVERSE BRACING AT A 30 FOOT INTERVAL OR AT BOTH ENDS IF THE DUCT RUN IS LESS THAN THE SPECIFIED INTERVAL. TRANSVERSE BRACING WILL BE INSTALLED AT EACH DUCT TURN AND AT EACH END OF A DUCT RUN, WITH A MINIMUM OF ONE BRACE AT EACH END.
4. PROVIDE LONGITUDINAL BRACING AT A 60 FOOT INTERVAL WITH AT LEAST ONE BRACE PER DUCT RUN. TRANSVERSE BRACING FOR ONE DUCT SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR A DUCT SECTION AT 90° TURNS IF THE BRACING IS INSTALLED WITHIN TWO TIMES THE DUCT WIDTH OF THE INTERSECTION OF BOTH DUCTS AND THE BRACING IS SIZED FOR THE LARGER DUCT. DUCT JOINTS WILL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS.
5. WALLS (INCLUDING GYPSUM BOARD NON-LOAD BEARING PARTITIONS) THAT HAVE DUCTS 5. RUNNING THROUGH THEM MAY REPLACE A TYPICAL TRANSVERSE BRACE. PROVIDE SOLID BLOCKING AROUND DUCT PENETRATIONS AT ALL STUD WALL CONSTRUCTION.
6. UNBRACED DUCTS WILL BE INSTALLED WITH A 6 INCH MINIMUM CLEARANCE TO VERTICAL CEILING HANGER WIRES.
7. WHEN A COMBINATION OF DUCTS IS USED IN LIEU OF ONE DUCT, AT LEAST 2 SIDES OF EACH DUCT MUST BE CONNECTED TO VERTICAL OR HORIZONTAL ANGLES AND THE COMBINED WEIGHT SHALL NOT EXCEED THAT GIVEN IN THE TABLE. (ADD HORIZONTAL ANGLES IF REQUIRED).
8. MAXIMUM WEIGHT OF DUCT OR COMBINATIONS OF DUCTS IS PER LINEAR FOOT. FOR DUCTS WEIGHING MORE THAN THE MAXIMUM WEIGHT PER FOOT, USE THE NEXT HIGHER DUCT SIZE.
9. SEE CONNECTION TO STRUCTURE DETAIL.
10. FOR DUCTS SMALLER THAN OR EQUAL TO 36", SEE SINGLE HANGER DETAIL.
11. PRE-STRETCHED AIRCRAFT CABLE MAY BE USED IN LIEU OF ANGLE BRACE. CABLE SHALL BE SIZED AND INSTALLED PER SMACNA. BRACING TYPES SHALL NOT BE MIXED.

2 SEISMIC BRACING FOR ROUND/OVAL DUCTS (SINGLE HANGER)
NTS



TYPE A, B, & C

TYPE	MAX. LOAD CAPACITY [1] (lb)	MACHINE BOLT AT WOOD [2] (in)	ANGLE TO SUPPORTING STRUCTURAL MEMBER [3]
A	1040	1/2	3-1/2x2-1/2x3/8x0 ft, 3 in LLH
B	1415	5/8	5x3x3/8x0 ft, 3 in LLH
C	1586	3/4	2, 4x3x3/8x0 ft, 4 in LLH

NOTES:

1. MAXIMUM LOAD CAPACITY IS FOR GENERAL INFORMATION ONLY AND THE MAXIMUM MEMBER FORCE IN THE BRACING SYSTEM USED IN THIS MANUAL. A DESIGNER MAY USE THIS FORCE TO DESIGN A SPECIAL CONNECTION IF REQUIRED.
2. MACHINE BOLTS INTO 6X WOOD MEMBERS UNLESS SHOWN OTHERWISE ON THE DETAILS.
3. LLH = LONG LEG HORIZONTAL

3 SEISMIC CONNECTION TO WOOD I-JOIST
NTS

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

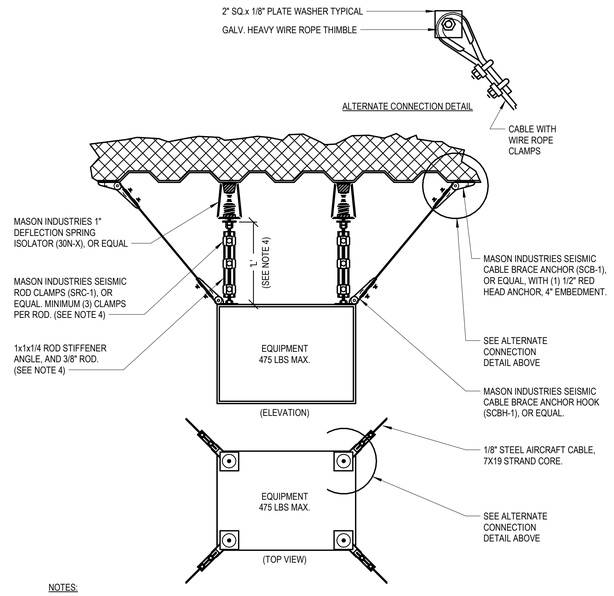
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M6.7
MECHANICAL DETAILS



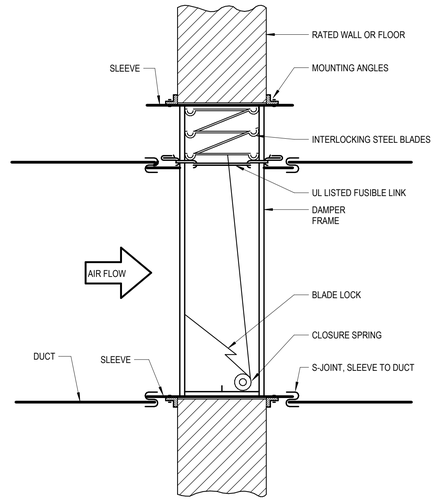
NOTES:

1. BRACE ALL EQUIPMENT WEIGHING 55 LBS. TO 475 LBS. AS SHOWN.
2. CONNECT TO STRUCTURE PER MASON INDUSTRIES, OR EQUAL, INSTALLATION REQUIREMENTS. COORDINATE WITH STRUCTURAL ENGINEER.
3. FOR WOOD STRUCTURE, 2x2x1/4 ANGLE SUPPORT SHALL BE BOLTED TO TOP TRUSS AND RODS SHALL BE BOLTED TO ANGLE SUPPORT.
4. IF 'L' EXCEEDS 50 TIMES THE DIAMETER OF THE ROD, THEN A VERTICAL STIFFENER IS REQUIRED.
5. SEE SEISMIC BRACING FOR HANGING EQUIPMENT (476 LBS. TO 700 LBS.) DETAIL FOR EQUIPMENT WEIGHING 476 LBS. TO 700 LBS. SEISMIC RESTRAINT FOR EQUIPMENT WEIGHING MORE THAN 700 LBS. SHALL BE INDIVIDUALLY ENGINEERED BY MASON INDUSTRIES, OR EQUAL.

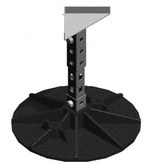
1 SEISMIC RESTRAINT FOR HANGING EQUIPMENT (55-475 LBS)
NTS

NOTES:

1. FIRE DAMPER SHALL BE MINIMUM UL CLASSIFIED (UL555).
2. THE OPERATING TEMPERATURE OF THE FIRE DAMPER ACTUATING DEVICE SHALL BE RATED AT 160° F. OR APPROXIMATELY 50° F ABOVE THE NORMAL TEMPERATURE WITHIN THE DUCT SYSTEM THAT IT SERVES. THE OPERATING TEMPERATURE OF FIRE DAMPERS SERVING A SMOKE-CONTROL SYSTEM (COMPLYING WITH SECTION 607.3 OF THE 2003 IMC) SHALL BE RATED AT 286° F.
3. ONLY FIRE DAMPERS LABELED FOR USE IN DYNAMIC SYSTEMS SHALL BE INSTALLED IN HEATING, VENTILATION AND AIR-CONDITIONING SYSTEMS INTENDED TO OPERATE WITH FANS ON DURING A FIRE. FIRE DAMPERS LABELED FOR USE IN STATIC SYSTEMS SHALL BE INSTALLED IN NON-PRESSURIZED DUCT SYSTEMS.
4. FIRE DAMPER SHALL BE INSTALLED WITH APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. FIRE DAMPER SHALL BE "TYPE B" AS SHOWN.
6. APPROVED MANUFACTURER'S SHALL INCLUDE: RUSKIN, NAILOR, PREFCO, CESCO, AIR BALANCE, SAFE-AIR/DOWCO, NCA MANUFACTURING, OR APPROVED EQUAL.



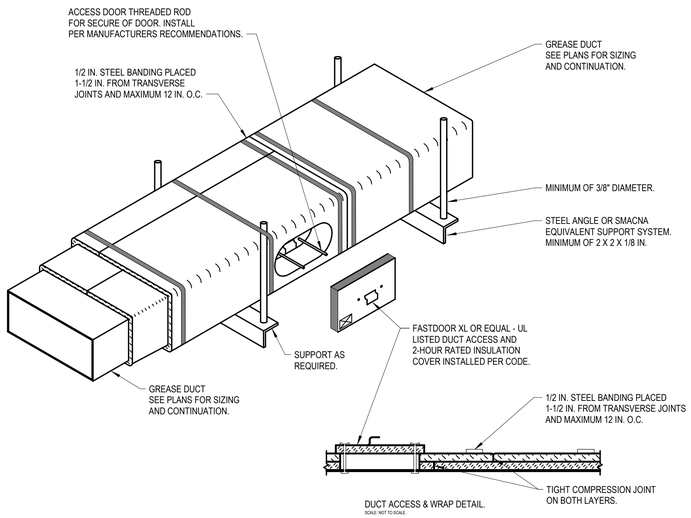
2 FIRE DAMPER DETAIL
NTS



ADVANCED SUPPORT PRODUCTS MODEL SS1000EC OR EQUAL.

REPLACE MANUFACTURES BASE/LEGS WITH FLOATING EQUIPMENT SUPPORT. PROVIDE SUPPORT AT EACH CORNER OF POWER EXHAUST.

3 POWER EXHAUST SUPPORT DETAIL
12" = 1'-0"



NOTES:

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL OR APPROVED EQUAL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT. G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2- HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   NFPA 96
   INTERNATIONAL MECHANICAL CODES
   UNIFORM MECHANICAL CODE
   CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. INSTALL UL AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL OR EQUAL ACCESS DOORS AT ALL GREASE DUCT CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT. ON HORIZONTAL RUNS OR AS SHOWN ON PLANS.
5. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE GREASE HOOD CONNECTION TO THE CONNECTION TO THE GREASE FAN.
6. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.

4 GREASE DUCT WRAP DETAIL
NTS

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
M6.8
MECHANICAL DETAILS

PACKAGED AIR CONDITIONING SCHEDULE

SYMBOL	AREA SERVED	NOM. TONS	SUPPLY FAN				COOLING CAPACITY 95°OSA, 80°EDB, 62°EWB		GAS HEATING CAPACITY		RTU ELECTRICAL			ELECTRICAL POWER EXHAUST				OSA CFM	MIN. EER RATING	OPER. WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MOTOR HP	DRIVE	TOTAL MBH	SENSIBLE MBH	INPUT MBH	OUTPUT MBH	MCA	MOCP	V/Ø	STATIC	MCA	MOCP	V/Ø					
RTU-1A	GYMNASIUM E100	12.5	5,000	0.75	(1) 5.0	DIRECT ECM	159.0	121.0	198.0	160.4	34.0	40.0	460/3	0.5	8.1	14.6	460/3	1,360	10.8	1,500	DAIKIN MPSA12D	1 , 2 , 3 , 4 , 5
RTU-1B	GYMNASIUM E100	12.5	5,000	0.75	(1) 5.0	DIRECT ECM	159.0	121.0	198.0	160.4	34.0	40.0	460/3	0.5	8.1	14.6	460/3	1,360	10.8	1,500	DAIKIN MPSA12D	1 , 2 , 3 , 4 , 5
RTU-2A	CAFETORIUM F100	15.0	6,000	0.75	(2) 3-HP	DIRECT ECM	187.5	141.2	220.0	178.2	38.0	45.0	460/3	0.5	8.1	14.6	460/3	2,680	11.1	2,200	DAIKIN MPS015B	1 , 2 , 3 , 4 , 5
RTU-2B	CAFETORIUM F100	15.0	6,000	0.75	(2) 3-HP	DIRECT ECM	187.5	141.2	220.0	178.2	38.0	45.0	460/3	0.5	8.1	14.6	460/3	2,680	11.1	2,200	DAIKIN MPS015B	1 , 2 , 3 , 4 , 5

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: CARRIER, TRANE, LENNOX, AND YORK.
2. PROVIDE UNIT WITH TERMINAL STRIP FOR DDC CONTROL. SEE CONTROLS SHEET M8.4 FOR SEQUENCE OF OPERATION.
3. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND AUX END SWITCH, MICROMETL MODULATING POWER EXHAUST WITH VARIABLE SPEED MOTOR CONTROLLER (100% RELIEF) WIRING HARNESS, PRESSURE SENSOR SET TO .02 POSITIVE PRESSURE. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
4. PROVIDE 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS PER UNIT.
5. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.

EXHAUST FAN SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/Ø				
EF-A1	JAN. A107	CEILING CABINET	150	.375	1,160	DIRECT	57.7 W	115/1	3.5	15.0	COOK MODEL GC-186	1 , 2 , 4
EF-B1	JAN. B110	CEILING CABINET	150	.375	1,160	DIRECT	57.7 W	115/1	3.5	15.0	COOK MODEL GC-186	1 , 2 , 4
EF-D1	JAN. D110	CEILING CABINET	150	.375	1,160	DIRECT	57.7 W	115/1	3.5	15.0	COOK MODEL GC-186	1 , 2 , 4
EF-E1	JAN. E109	CEILING CABINET	150	.375	1,160	DIRECT	57.7 W	115/1	3.5	15.0	COOK MODEL GC-186	1 , 2 , 4
EF-E2	ELECTRICAL E106	ROOF MOUNTED UPBLAST	600	0.25	1,550	DIRECT	1/8 HP	115/1	9.7	75.0	COOK MODEL ACRUD 101R15D	1 , 3 , 4
EF-E3	MECHANICAL E111	ROOF MOUNTED UPBLAST	1,000	0.25	1,550	DIRECT	1/4 HP	115/1	9.0	75.0	COOK MODEL ACRUD 120R15D	1 , 3 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: ACME, GREENHECK, PENNBARRY, TWIN CITY FAN COMPANY, SOLER & PALAU.
2. PROVIDE UNIT WITH MANUFACTURER'S ALUMINUM ROOF CAP (FLAT ROOF) EQUAL TO COOK MODEL PR (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), BACKDRAFT DAMPER, OUTLET FLEX DUCT CONNECTION, STANDARD PLUG DISCONNECT, PRE-WIRED FAN SPEED CONTROLLER, THERMAL OVERLOAD PROTECTION, HANGING VIBRATION ISOLATORS, PILOT LIGHT WALL SWITCH, AND ALUMINUM GRILLE. COORDINATE GRILLE COLOR WITH ARCHITECT.
3. PROVIDE UNIT WITH MANUF. ROOF CURB W/ DAMPER TRAY, MOTORIZED BACKDRAFT DAMPER, INLET FLEX DUCT CONNECTION, INTEGRAL BIRD SCREEN, PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND THERMAL OVERLOAD PROTECTION.
4. SEE CONTROLS SHEET M8.3 FOR SEQUENCE OF OPERATION.

ELECTRIC HEATER SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	FAN			ELECTRICAL				MANUFACTURER AND MODEL	REMARKS
			CFM	RPM	HP	KW	STEPS	V/Ø	AMPS		
EH-A1	VESTIBULE A100	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-A2	VESTIBULE A109	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-A3	TOILET A111	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3 , 4
EH-A4	GIRLS A108	CEILING MOUNTED	245	1400	1/8	3.0	1	277/1	10.8	QMARK CDF SERIES WITH RECESSED ENCLOSURE	1 , 3 , 4
EH-B1	VESTIBULE B100	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-B2	VESTIBULE B111	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-B3	VESTIBULE B120A	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-C1	SECURITY VESTIBULE C100	CEILING MOUNTED	245	1400	1/8	3.0	1	277/1	10.8	QMARK CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-D1	VESTIBULE D100	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-D2	VESTIBULE D107	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-D3	JAN. D110	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3 , 5
EH-D4	BOYS D108	CEILING MOUNTED	245	1400	1/8	3.0	1	277/1	10.8	QMARK CDF SERIES WITH RECESSED ENCLOSURE	1 , 3 , 5
EH-E1	CORRIDOR E101	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3
EH-E2	MECHANICAL E111	WALL HUNG	400	1,400	N/A	5.0	1	277/1	18.1	MARKEL MODEL 5100 SERIES	1 , 2 , 3
EH-F1	HALLWAY F102	CEILING MOUNTED	245	1400	1/8	2.0	1	277/1	7.2	QMARK CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-F2	STORAGE F100A	RECESSED	245	1400	1/8	2.0	1	277/1	7.2	MARKEL MODEL 3420 SERIES	1 , 2 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: MARKEL, QMARK, INDEECO, OUELLET, AND CHROMALOX.
2. MOUNT BOTTOM OF HEATER 24" ABOVE FINISH FLOOR.
3. SEE CONTROLS SHEET M8.3 FOR SEQUENCE OF OPERATION.
4. PROVIDE UNDER BID ALTERNATE #1.
5. PROVIDE UNDER BID ALTERNATE #2.

ENERGY RECOVERY UNIT SCHEDULE (FIXED CORE)

SYMBOL	SUPPLY FAN			EXHAUST FAN			WINTER DESIGN						SUMMER DESIGN						ELECTRICAL			MIN EFFECTIVENESS SUMMER / WINTER	WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
							SUPPLY			EXHAUST			SUPPLY			EXHAUST									
	CFM	ESP	HP	CFM	ESP	HP	EDB	EWB	LDB	EDB	EWB	LDB	EDB	EWB	LDB	EDB	EWB	LDB	MCA	MOCP	V/Ø				
ERU-A1	3,575	1.0	1.5	3,220	1.0	1.5	7.6	5.2	45.2	70.0	55.0	61.9	92.2	66.3	82.2	75.0	61.9	86.2	8.9	15.0	460/3	61.7% / 58.6%	1,000	GREENHECK ECV-30-PM-H	1 , 2 , 3
ERU-A2	3,510	1.0	1.5	3,160	1.0	1.5	7.6	5.2	45.1	70.0	55.0	30.1	92.2	66.3	82.2	75.0	61.9	86.1	8.9	15.0	460/3	61.3% / 58.2%	1,000	GREENHECK ECV-30-PM-H	1 , 2 , 3
ERU-B1	2,040	1.0	1.5	1,840	1.0	1.5	7.6	5.2	43.3	70.0	55.0	29.8	92.2	66.3	82.0	75.0	61.9	86.2	4.7	15.0	460/3	70.3% / 59.5%	750	GREENHECK ECV-30-FM-H	1 , 2 , 3
ERU-B2	2,775	1.0	1.0	2,500	1.0	0.75	7.6	5.2	44.1	70.0	55.0	28.9	92.2	66.3	81.8	75.0	61.9	86.4	6.2	15.0	460/3	71.5% / 60.9%	1,000	GREENHECK ECV-30-FM-H	1 , 2 , 3
ERU-C1	2,820	1.0	1.0	2,540	1.0	0.75	7.6	5.2	44.1	70.0	55.0	28.9	92.2	66.3	81.8	75.0	61.9	86.4	6.2	15.0	460/3	71.5% / 60.9%	1,000	GREENHECK ECV-30-FM-H	1 , 2 , 3
ERU-D1	1,875	1.0	1.5	1,690	1.0	1.5	7.6	5.2	43.9	70.0	55.0	29.0	92.2	66.3	81.8	75.0	61.9	86.4	4.7	15.0	460/3	71.4% / 60.7%	750	GREENHECK ECV-20-FM-H	1 , 2 , 3
ERU-D2	2,220	1.0	1.5	2,000	1.0	2.0	7.6	5.2	45.6	70.0	55.0	29.8	92.2	66.3	82.1	75.0	61.9	86.3	5.9	15.0	460/3	62.2% / 59.1%	750	GREENHECK ECV-20-PM-H	1 , 2 , 3
ERU-F1	1,400	1.0	1.0	1,260	1.0	1.0	7.6	5.2	46.3	70.0	55.0	27.1	92.2	66.3	81.3	75.0	61.9	87.0	3.5	15.0	460/3	74.9% / 64.5%	700	GREENHECK ECV-20-FM-H	1 , 2 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: COOK (MODEL ERVX), RENEWAIRE (MODEL HE), AND CARNES (MODEL WP).
2. PROVIDE WITH EXHAUST ONLY FROST PREVENTION CONTROLS, SINGLE POINT POWER CONNECTION, NEMA 3R DISCONNECT SWITCH, MOTOR STARTERS, 2" MERV 8 FILTERS IN EACH AIR STREAM, VIBRATION ISOLATORS ON EACH FAN, INTAKE AND EXHAUST WEATHER HOODS, MANUFACTURER'S ROOF CURB, HINGED ACCESS PANELS, FIXED CORE POLYMER HEAT EXCHANGER W/ 5 YEAR WARRANTY, DOUBLE WALL CABINET CONSTRUCTION, AND BYPASS DAMPER WITH ECONOMIZER CYCLE. PROVIDE UNIT WITH UL APPROVAL LISTING.
3. PROVIDE WITH MICROPROCESSOR UNIT CONTROLS AND NETWORK CONNECTION. COORDINATE AND VERIFY REQUIREMENTS WITH CONTROLS CONTRACTOR. SEE CONTROL SEQUENCE AS OUTLINED ON CONTROLS SHEET M8.2 FOR ADDITIONAL REQUIREMENTS.

DIFFUSER SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
D-1 CFM 6"Ø	6X6	6"Ø	0 - 90	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-2 CFM 8"Ø	9X9	8"Ø	90 - 200	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-3 CFM 10"Ø	12X12	10"Ø	200 - 350	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-4 CFM 12"Ø	15X15	12"Ø	300 - 500	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-5 CFM 14"Ø	15X15	14"Ø	400 - 650	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-6 CFM 16"Ø	18X18	16"Ø	600 - 900	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-7 CFM 21X21	21X21	21X21	900 - 1400	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-8 CFM 10"Ø	12X12	10"Ø	200 - 350	1 , 3 , 4 , 5 , 6 , 7 , 8 , 9

REMARKS:

1. ALTERNATE MANUFACTURERS: ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
2. SIZES BASED ON TITUS MODEL TDC SERIES.
3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
4. ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"x24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
5. SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
6. ALL OF THE DIFFUSERS SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR DIFFUSER CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
7. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
8. COLOR TO BE SELECTED BY ARCHITECT.
9. SIZES BASED ON TITUS MODEL TDC-A SERIES.

SUPPLY GRILLE SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
G-1 CFM SIZE	18X4	18X4	0-350	1 , 2 , 3 , 4
G-2 CFM SIZE	12X8	12X8	0-400	1 , 2 , 3 , 4

REMARKS:

1. APPROVED MANUFACTURERS: ANEMOSTAT, J&J REGISTER, TUTTLE & BAILEY, NAILOR, METAL-AIRE, KRUEGER, PRICE, AND UNITED ENERTECH.
2. DRUM LOUVER, SIZES BASED ON TITUS MODEL DL. ADJUSTABLE VERTICAL AND HORIZONTAL THROW - HIGH DISCHARGE FOR LONG THROWS, WHITE FINISH. PROVIDE WITH OPPOSED BLADE DAMPER.
3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
4. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.

RETURN & EXHAUST GRILLE SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
R-1 6"Ø	8X8	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6 , 7
R-2 8"Ø	10X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6 , 7
R-3 10"Ø	12X12	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6 , 7
R-4 6"Ø	22X10	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6 , 7
R-5 8"Ø	22X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6 , 7
R-6 10"Ø	22X10	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6 , 7
R-7 12"Ø	22X22	12"Ø	300-500	1 , 2 , 3 , 4 , 5 , 6 , 7
R-8 14"Ø	22X22	14"Ø	500-750	1 , 2 , 3 , 4 , 5 , 6 , 7
R-9 22X10	22X10	22X10	500-1100	1 , 2 , 3 , 4 , 5 , 6 , 7
R-10 22X22	22X22	22X22	1100-2000	1 , 2 , 3 , 4 , 5 , 6 , 7
R-11 18X18	18X18	18X18	0-820	1 , 3 , 4 , 5 , 6 , 7 , 8

REMARKS:

1. ALTNERNATE MANUFACTURERS: ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
2. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGCRATE RETURN GRILLE, 1/2" x 1/2" x 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED).
3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
4. ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
5. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
6. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
7. COLOR TO BE SELECTED BY ARCHITECT.
8. HIGH WALL GRILLE SIZES BASED ON TITUS MODEL 355 RL, STEEL BAR GRILLE, FIXED BLADES, 1/2" SPACING, 35° DEFLECTION, ADJUSTABLE OPPOSED BLADE DAMPER.

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
|

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M7.1
MECHANICAL SCHEDULES

CONDENSING HOT WATER BOILER SCHEDULE

SYMBOL	AREA SERVED	THERMAL EFFICIENCY	FUEL	EWT (°F)	LWT (°F)	BOILER FLOW (GPM)	MAX P.D. (FT H$_2$O)	CAPACITY		MANUFACTURER AND MODEL	REMARKS
								INPUT MBH	OUTPUT MBH		
B-1	CONDENSER WATER LOOP	96%	NATURAL GAS	55.0	105.0	29.0	3.0	725.0	705.0	LOCHINVAR FTX725	1 , 2 , 3 , 4
B-2	CONDENSER WATER LOOP	96%	NATURAL GAS	55.0	105.0	29.0	3.0	725.0	705.0	LOCHINVAR FTX725	1 , 2 , 3 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: FULTON, KN, & AERCO.
2. PROVIDE BOILER VENTING KIT, BMS GATEWAY TO BACNET, NEUTRALIZING KIT, COMBUSTION AIR INTAKE KIT, LOW WATER CUT-OFF, FLOW SWITCH, MODULATING GAS BURNER, CONDENSATE TRAP, 316L STAINLESS STEEL COMBUSTION CHAMBER, EXHAUST PIPE, CSD-1 AND OSA RESET, 150-PSI WORKING PRESSURE.
3. BOILER SHALL BE PROVIDED W/FACTORY START-UP, START-UP IS NOT COMPLETE UNTIL ALL BURNERS AND BLOWER ARE CALIBRATED FOR PEAK PERFORMANCE AND AT COMPLETION OF PROJECT ALL BURNERS, BLOWERS, HEAT EXCHANGERS, AND OTHER INTERNAL PARTS SHALL BE THOROUGHLY CLEANED OF CONSTRUCTION DEBRIS.
4. SEE CONTROLS SHEET M8.5 FOR SEQUENCE OF OPERATION.

PUMP SCHEDULE

SYMBOL	AREA SERVED	TYPE	CAPACITY			MOTOR			SUCTION DIFFUSER	TRIPLE DUTY VALVE	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			FLOW (GPM)	HEAD (FT)	MIN EFF	HP	RPM	V/Ø					
BP-1	BOILER PUMP (B-1)	INLINE	29.0	10.0	-	1/3	-	115/1	N/A	N/A	40.0	GRUNDFOS MAGNA3 40-80	1 , 2 , 4
BP-2	BOILER PUMP (B-2)	INLINE	29.0	10.0	-	1/3	-	115/1	N/A	N/A	40.0	GRUNDFOS MAGNA3 40-80	1 , 2 , 4
P-1	CONDENSER WATER LOOP	BASE MOUNTED	265.0	110.0	77.5%	15.0	3,600	460/3	EE-3X	3DS-4S	350.0	B&G SERIES E-1510 2.5AC	1 , 2 , 3 , 4
P-2	CONDENSER WATER LOOP	BASE MOUNTED	265.0	110.0	77.5%	15.0	3,600	460/3	EE-3X	3DS-4S	350.0	B&G SERIES E-1510 2.5AC	1 , 2 , 3 , 4
P-3	BYPASS FILTER	INLINE	30.0	15.0	45.0%	0.5	1,750	115/1	N/A	N/A	50.0	B&G SERIES PL-36	1 , 2 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: ARMSTRONG, GRUNDFOS, TACO, WILO, PACO, PEERLESS, PATTERSON.
2. PROVIDE UNIT WITH PREMIUM EFFICIENCY MOTOR.
3. PROVIDE WITH VFD. SEE VFD SCHEDULE.
4. SEE CONTROLS SHEET M8.5 FOR SEQUENCE OF OPERATION.

VARIABLE FREQUENCY DRIVE SCHEDULE

SYMBOL	SYSTEM LOCATION	SERVICE HORSEPOWER	V/Ø	PURPOSE	MANUFACTURER AND MODEL	REMARKS
VFD-1	MECHANICAL E111	15.0	460/3	HYDRONIC LOOP PUMP (P-1)	ABB MODEL ACH550	1 , 2 , 3 , 4
VFD-2	MECHANICAL E111	15.0	460/3	HYDRONIC LOOP PUMP (P-2)	ABB MODEL ACH550	1 , 2 , 3 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: MAGNETEK, RELIANCE, MITSUBISHI, SQUARE D, AND YASKAWA.
2. PROVIDE W/PRESSURE SENSORS, INTERNAL FUSED DISCONNECT (W/FUSES), NEMA 1 ENCLOSURE, WALL MOUNTING BRACKET, FACTORY AUTHORIZED START-UP.
3. EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
4. SEE CONTROLS SHEET M8.5 FOR SEQUENCE OF OPERATION.

KITCHEN EXHAUST FAN SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/Ø				
KEF-1	KITCHEN HOODS (H-1 & H-2)	UPBLAST	3,750	1.8	1,000	DIRECT	5.0	208/3	21.0	500	CAPTIVE AIRE MODEL DU240HFA	1 , 2 , 3 , 4 , 6
KEF-2	DISHWASHER HOOD (H-3)	UTILITY SET	600	0.5	1,400	DIRECT	1/3	208/1	13.1	125	CAPTIVE AIRE MODEL DU33HFA	1 , 2 , 5 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: ACME, GREENHECK, PENNBARRY, TWIN CITY FAN COMPANY, SOLER & PALAU AND COOK.
2. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (VENTED ROOF CURB IF EXHAUST DUCT IS SHAFTED RATHER THAN WRAPPED), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, HINGED SUB BASE, GREASE TERMINATOR, AND U.L. 762 RATING.
3. PROVIDE WITH PREWIRED WITH VFD.
4. CONTROL FAN WITH KITCHEN HOOD CONTROL PANEL.
5. CONTROL FAN WITH WALL SWITCH.
6. SEE CONTROLS SHEET M8.3 FOR SEQUENCE OF OPERATION.

LOUVER SCHEDULE

SYMBOL	SERVICE	TYPE	NOMINAL SIZE	MINIMUM FREE AREA (SQ.FT.)	FINISH	MANUFACTURER AND MODEL	REMARKS
L-E1	INTAKE (ELECTRICAL E106)	FIXED DRAINABLE	24"X19"	1.4	AAMA 2604	RUSKIN ELF375DX	1 , 2 , 3 , 4
L-E2	INTAKE (MECHANICAL E116)	FIXED DRAINABLE	30"X21"	2.1	AAMA2604	RUSKIN ELF375DX	1 , 2 , 3 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: GREENHECK, AMERICAN WARMING, AIROLITE, SAFE-AIR/DOWCO, LOUVERS & DAMPERS, ARROW UNITED, CESCO, NCA MANUFACTURING, NAILOR, POTTORFF, AND UNITED ENERTECH.
2. COLOR TO BE SELECTED BY ARCHITECT.
3. PROVIDE WITH FLANGED FRAME AND BIRD SCREEN, AND 120V/Ø LOW LEAKAGE MOTORIZED DAMPER.
4. SEE CONTROLS SHEET M8.3 FOR SEQUENCE OF OPERATION.

MECHANICAL SPECIALTY EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT DESCRIPTION	SYSTEM SERVED	DESCRIPTION	MANUFACTURER AND MODEL
AS-1	AIR SEDIMENT SEPARATOR	HYDRONIC SYSTEM	DESIGN FLOW IS 265.0 GPM WITH A DESIGN PD OF 1.0 FT-H $_2$O.	B & G MODEL SRS -4F ALTERNATE APPROVED MANUFACTURERS: TACO, ARMSTRONG, AND PACO
ET-1	EXPANSION TANK (HORIZONTAL DIAPHRAGM TYPE)	HYDRONIC SYSTEM	12.2 GALLON CAPACITY, ACCEPTANCE 2.6 GALLONS-BLADDER TYPE EXPANSION TANK. (PRE-CHARGED TO 12 PSI)	B & G MODEL D-40V ALTERNATE APPROVED MANUFACTURERS: TACO, ARMSTRONG, AND PACO
BF-1	BYPASS FILTER	CONDENSER WATER LOOP	SIDE STREAM CONDENSER WATER FILTER ASSEMBLY WITH FLOOR MOUNTING LEGS.	ROSEDALE MODEL 8-30-2F-2-150-C-BS-M100
FM-1	FLOW METER	WELL WATER LOOP	ELECTROMAGNETIC FLOW METER	ONICON FT-3000

HEAT EXCHANGER SCHEDULE

SYMBOL	SYSTEM	TYPE	HEATING MODE				COOLING MODE				HX FLOW (GPM)		MAX PRESSURE LOSS (PSI)		MANUFACTURER & MODEL	REMARKS
			WELL SIDE (°F)		CONDENSER SIDE (°F)		WELL SIDE (°F)		CONDENSER SIDE (°F)		WELL SIDE	CONDENSER SIDE	WELL SIDE	CONDENSER SIDE		
			ENT	LVG	ENT	LVG	ENT	LVG	ENT	LVG						
HX-1	CONDENSER LOOP	PLATE AND FRAME	55.0	45.0	42.0	52.0	55.0	69.5	85.0	70.5	220.0	220.0	5.0	5.0	B&G AP47	1 , 2 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: ALFA LAVAL, TRANTER, TACO, AND ARMSTRONG
2. PIPING CONNECTIONS TO HEAT EXCHANGER AS SHOWN ON PIPING SCHEMATICS MAY NOT REFLECT EACH MANUFACTURER'S ACTUAL CONNECTION ORDER.
3. EPDM GASKET MATERIAL AND 316 STAINLESS STEEL PLATE MATERIAL.

DUCTLESS SPLIT HIGH WALL COOLING & HEATING UNIT SCHEDULE

SYMBOL	AREA SERVED	NOMINAL TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95°F OSA, 80°F EDB, 62°F EWB		HEATING REQUIRED AT 32°F OSA, 69°F EDB.	ELECTRICAL OUTDOOR UNIT			MINIMUM SEER / HSPF	INDOOR/ OUTDOOR OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
				CFM	HP	V/Ø	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	MCA	MOCP	V/Ø				
FC-A1 / CU-A1	DATA A107A	1.0	HIGH WALL COOL/HEAT UNIT	212-353	.027	THROUGH OUTDOOR UNIT	13.5	9.0	10.50	10	15	208/1	19.8/9.6	25/65	CARRIER INDOOR UNIT MODEL 40MHHQ12 CARRIER OUTDOOR UNIT MODEL 38MHRBQ12	1 , 2 , 3 , 4 , 5 , 6 , 7
FC-C1 / CU-C1	IT C124	1.5	HIGH WALL COOL/HEAT UNIT	353-559	.037	THROUGH OUTDOOR UNIT	19.0	15.0	15.50	15	20	208/1	19.0/10.6	35/75	CARRIER INDOOR UNIT MODEL 40MHHQ18 CARRIER OUTDOOR UNIT MODEL 38MHRBQ18	1 , 2 , 3 , 4 , 5 , 6 , 7
FC-E1 / CU-E1	I.T. E116	1.0	HIGH WALL COOL/HEAT UNIT	212-353	.027	THROUGH OUTDOOR UNIT	13.5	9.0	10.50	10	15	208/1	19.8/9.6	25/65	CARRIER INDOOR UNIT MODEL 40MHHQ12 CARRIER OUTDOOR UNIT MODEL 38MHRBQ12	1 , 2 , 3 , 4 , 5 , 6 , 7
FC-F1 / CU-F1	STORAGE F100A	1.0	HIGH WALL COOL/HEAT UNIT	212-353	.027	THROUGH OUTDOOR UNIT	13.5	9.0	10.50	10	15	208/1	19.8/9.6	25/65	CARRIER INDOOR UNIT MODEL 40MHHQ12 CARRIER OUTDOOR UNIT MODEL 38MHRBQ12	1 , 2 , 3 , 4 , 5 , 6 , 7

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: LENNOX, MITSUBISHI, PANASONIC, SAMSUNG, LG, DAIKIN , OR APPROVED EQUAL BY ENGINEER.
2. CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGE OVER.
3. PROVIDE MANUFACTURERS CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO -0°F COOLING TO -0°F HEATING) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER, AND TAMPER PROOF PORT CAPS.
4. PROVIDE WITH MIRO INDUSTRIES HEAVY DUTY MECHANICAL GALVANIZED ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.
5. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP, OR LITTLE GIANT MINI CONDENSATE PUMP, CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. ELECTRICAL CIRCUIT FOR PUMP SHALL BE INTEGRATED TO FAN COIL.
6. ELECTRICAL TO PROVIDE DISCONNECT AND HEAT TRACE BENEATH UNIT AND TO ROOF DRAIN.
7. SEE CONTROLS SHEET M8.1 FOR SEQUENCE OF OPERATION.

EXHAUST HOOD SCHEDULE

SYMBOL	TYPE	HOOD DIMENSIONS		EXHAUST AIR			MAKE-UP AIR			MANUFACTURER AND MODEL	REMARKS
		LENGTH	WIDTH	AIRFLOW CFM	DUCT CONNECITON	MAX S.P. LOSS	AIRFLOW CFM	DUCT CONNECTION	MAX S.P. LOSS		
H-1	KITCHEN EXHAUST HOOD	13'	54"	1,950	14"	-0.731"	PROVIDED BY RTU-2A & RTU-2B			CAPTIVE AIRE MODEL 5424 ND-2	1 , 2 , 3 , 4 , 5
H-2	KITCHEN EXHAUST HOOD	12'	54"	1,800	14"	-0.623"	PROVIDED BY RTU-2A & RTU-2B			CAPTIVE AIRE MODEL 5424 ND-2	1 , 2 , 3 , 4 , 5 , 7
H-3	DISHWASHER HOOD	4'	4'	600	10"	-0.090"	PROVIDED BY RTU-2A & RTU-2B			CAPTIVE AIRE MODEL 4824 VHB-G	1 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: GREENHECK, E-CON AIR, AND DUO-AIRE.
2. PROVIDE WITH PRE-WIRED REMOTE MOUNTED HOOD CONTROL PANEL (INCLUDING ALL STARTERS, CONTACTORS, EXHAUST, LIGHTS, AND SURFACE-MOUNTED SWITCHES). PROVIDE REMOTE SURFACE-MOUNTED SWITCHES FOR FANS, LIGHTS AND ENERGY MANAGEMENT SYSTEM OVERRIDE.
3. PROVIDE WITH EXHAUST COLLARS AND INTERIOR LIGHTS.
4. PROVIDE HOOD WITH MANUFACTURER'S CHEMICAL FIRE SUPPRESSION SYSTEM INCLUDING MECHANICAL GAS VALVE FOR SHUTDOWN OF MAIN GAS LINE TO COOKING EQUIPMENT. SYSTEM SHALL BE CONNECTED TO BUILDING FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR. THE FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED FOR A UNIVERSAL CONFIGURATION AND SHALL ALLOW EQUIPMENT UNDER THE HOOD TO BE RECONFIGURED WITHOUT ALTERATIONS TO THE SPRINKLER HEAD LOCATIONS OR STYLES, OR REQUIRE ADDITIONAL HEADS TO BE ADDED.
5. CONTROL H-1 & H-2 WITH WALL MOUNTED KITCHEN HOOD CONTROL PANEL.
6. CONTROL H-3 WITH WALL MOUNTED SWITCH.
7. UTILITY CABINET MOUNTED ON SIDE OF HOOD. SEE FLOOR PLANS FOR LOCATION.

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M7.2

MECHANICAL SCHEDULES

WATER SOURCE HEAT PUMP SCHEDULE

AREA	SYMBOL	AREA SERVED	NOM. TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95° OSA, 80° EDB, 62° EWB				HEATING REQUIRED AT 70° EAT			CONDENSER WATER		ELECTRICAL			OSA CFM	EFF. (EER / COP)	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
					CFM	ESP	HP	TOTAL MBH	SENS. MBH	EWT (°F)	LWT (°F)	TOTAL MBH	EWT (°F)	LWT (°F)	GPM	MAX PD (PSI)	MCA	MOCP	V/Ø					
AREA A	HP-A1	CLASSROOM A103	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3 , 4
	HP-A2	CLASSROOM A102	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3 , 4
	HP-A3	CLASSROOM A105	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3 , 4
	HP-A4	CLASSROOM A104	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3 , 4
	HP-A5	CORRIDOR A101 / FOYER A101A	1.5	HORIZ.	630	0.5	0.33	20.6	14.2	64.0	80.1	18.5	52.0	42.7	3.0	1.4	11.5	15.0	277/1	160	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-A6	CLASSROOM A106	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	440	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-A7	CLASSROOM A113	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-A8	CLASSROOM A112	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-A9	CLASSROOM A115	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	552	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-A10	CLASSROOM A114	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	440	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-A11	CLASSROOM A117	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	552	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-A12	CLASSROOM A116	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-A13	COMPUTER LAB A119	4.0	HORIZ.	1,800	0.5	0.75	50.3	39.6	64.0	78.9	48.7	52.0	42.8	8.0	7.1	13.4	15.0	460/3	400.0	18.2 / 3.9	325.0	DAIKIN MODEL WCCW5048	1 , 2 , 3
	HP-A14	CLASSROOM A118	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	434.0	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-A15	READING A122 / TITLE ONE A123	1.0	HORIZ.	400	0.5	0.125	13.6	9.5	64.0	80.3	12.8	52.0	43.1	2.0	5.3	6.6	15.0	277/1	240	15.0 / 3.1	130.0	DAIKIN MODEL WCCW5012	1 , 2 , 3
	HP-A16	E.I. A121 / COUNS. A120	1.5	HORIZ.	580	0.5	0.33	15.7	12.3	64.0	78.7	14.7	52.0	43.1	2.5	2.1	8.9	15.0	277/1	240	20.8 / 3.8	125.0	DAIKIN MODEL WCCW4015	1 , 2 , 3
AREA B	HP-B1	CLASSROOM B106	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-B2	CLASSROOM B107	3.5	HORIZ.	1,230	0.5	0.75	42.8	31.4	64.0	78.3	40.3	52.0	43.3	7.0	2.5	13.1	15.0	460/3	555	17.9 / 3.8	325.0	DAIKIN MODEL WCCW5042	1 , 2 , 3
	HP-B3	CLASSROOM B108	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-B4	CLASSROOM B109	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-B5	CORRIDOR B101 / FOYER B101A	1.5	HORIZ.	630	0.5	0.33	20.6	14.2	64.0	80.1	18.5	52.0	42.7	3.0	1.4	11.5	15.0	277/1	110.0	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-B6	CLASSROOM B115	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-B7	CLASSROOM B116	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-B8	CLASSROOM B117	3.0	HORIZ.	1,160	0.5	0.5	37.3	28.0	64.0	78.5	34.5	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-B9	TALENTED AND GIFTED B121	2.5	HORIZ.	900	0.5	0.5	30.6	21.4	64.0	80.0	29.5	52.0	42.1	4.5	2.1	18.1	25.0	277/1	265	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-B10	CLASSROOM B119	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	555	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3

REMARKS:
1. APPROVED ALTERNATE MANUFACTURERS: CLIMATE MASTER, CARRIER, WATER FURNACE, AND TRANE.
2. SEE CONTROLS SHEET M8.2 FOR SEQUENCE OF OPERATION.
3. PROVIDE W/EXTRA-QUIET CONSTRUCTION, 2" PLEATED FILTER RACK (SEE HEAT PUMP DETAIL), RUN-OUT SIZED GRISWOLD 24" (STAINLESS STEEL) AUTOMATIC BALANCING HOSE KIT (TEST PLUGS, BALL VALVES AND STRAINER), AND DRAIN PAN OVERFLOW SENSOR. CONTROL VALVE PROVIDED BY CONTROLS CONTRACTOR.
4. PROVIDE UNIT UNDER BID ALTERNATE #1.

DESTRATIFICATION FAN SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	SUPPLY FAN			ELECTRICAL			OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	RPM	WATTS	AMPS	SPEEDS	V/Ø			
DF-1	CAFETORIUM F100	FREE HANGING	547	1,650	37	0.31	N/A	120/1	10	AIRIUS AIR PEAR MODEL 25 EC	1 , 2 , 3 , 4
DF-2	CAFETORIUM F100	FREE HANGING	547	1,650	37	0.31	N/A	120/1	10	AIRIUS AIR PEAR MODEL 25 EC	1 , 2 , 3 , 4
DF-3	CAFETERIA F100	FREE HANGING	547	1,650	37	0.31	N/A	120/1	10	AIRIUS AIR PEAR MODEL 25 EC	1 , 2 , 3 , 4
DF-4	GYMNASIUM E100	FREE HANGING	547	1,650	37	0.31	N/A	120/1	10	AIRIUS AIR PEAR MODEL 25 EC	1 , 2 , 3 , 4
DF-5	GYMNASIUM E100	FREE HANGING	547	1,650	37	0.31	N/A	120/1	10	AIRIUS AIR PEAR MODEL 25 EC	1 , 2 , 3 , 4
DF-6	GYMNASIUM E100	FREE HANGING	547	1,650	37	0.31	N/A	120/1	10	AIRIUS AIR PEAR MODEL 25 EC	1 , 2 , 3 , 4

REMARKS:
1. APPROVED ALTERNATE MANUFACTURERS: SUBMIT FOR APPROVAL.
2. CONTROL FAN THROUGH DIGITAL CONTROL SYSTEM, CONTROLS CONTRACTOR TO PROVIDE WITH MANUAL OVERRIDE SWITCH. SEE PLANS FOR LOCATION OF OVERRIDE SWITCH. SEE CONTROLS SHEET M8.1 FOR SEQUENCE OF OPERATION.
3. PROVIDE WITH EYE BOLT, BEAM CLAMP BRIDAL RING, CHAINLINK/CARABINEER, 6' STEEL LEASH AND ANCHOR POINT, SAFETY CABLE, 6' POWER CHORD, THERMAL PROTECTION FOR MOTOR, ELECTRICAL CONNECTION AND JUNCTION BOX, AND 3-YEAR WARRANTY PARTS AND WORKMANSHIP.
4. FAN COLOR SHALL BE SELECTED BY ARCHITECT.

WATER SOURCE HEAT PUMP SCHEDULE

AREA	SYMBOL	AREA SERVED	NOM. TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95° OSA, 80° EDB, 62° EWB				HEATING REQUIRED AT 70° EAT			CONDENSER WATER		ELECTRICAL			OSA CFM	EFF. (EER / COP)	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
					CFM	ESP	HP	TOTAL MBH	SENS. MBH	EWT (°F)	LWT (°F)	TOTAL MBH	EWT (°F)	LWT (°F)	GPM	MAX PD (PSI)	MCA	MOCP	V/Ø					
AREA C	HP-C1	CORRIDOR C120	1.0	HORIZ.	400	0.5	0.125	13.6	9.5	64.0	80.3	12.8	52.0	43.1	2.0	5.3	6.6	15.0	460/3	55.0	15.0 / 3.1	130.0	DAIKIN MODEL WCCW5012	1 , 2 , 3
	HP-C2	RESOURCE C121	2.0	HORIZ.	700	0.5	0.33	20.9	15.0	64.0	80.3	18.7	52.0	42.6	3.0	1.4	11.5	15.0	277/1	335	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-C3	RESOURCE C122	2.0	HORIZ.	700	0.5	0.33	20.9	15.0	64.0	80.3	18.7	52.0	42.6	3.0	1.4	11.5	15.0	277/1	335	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-C4	CLASSROOM C123	2.5	HORIZ.	900	0.5	0.5	30.6	21.4	64.0	80.0	29.5	52.0	42.1	4.5	2.1	15.3	25.0	277/1	450	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-C5	FACULTY C113	2.5	HORIZ.	900	0.5	0.5	30.6	21.4	64.0	80.0	29.5	52.0	42.1	4.5	2.1	15.3	25.0	277/1	125	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-C6	OFFICES	1.5	HORIZ.	600	0.5	0.33	15.7	12.4	64.0	78.7	14.7	52.0	43.1	2.5	2.1	8.9	15.0	277/1	120	20.8 / 3.8	225.0	DAIKIN MODEL WCCW4015	1 , 2 , 3
	HP-C7	WORKROOM C105	1.5	HORIZ.	600	0.5	0.33	15.7	12.4	64.0	78.7	14.7	52.0	43.1	2.5	2.1	8.9	15.0	277/1	50	20.8 / 3.8	225.0	DAIKIN MODEL WCCW4015	1 , 2 , 3
	HP-C8	RECEPTION 102	2.5	HORIZ.	900	0.5	0.5	30.6	21.4	64.0	80.0	29.5	52.0	42.1	4.5	2.1	18.1	25.0	277/1	120	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-C9	CONFERENCE C103	1.5	HORIZ.	630	0.5	0.33	20.6	14.2	64.0	80.1	18.5	52.0	42.7	3.0	1.4	11.5	15.0	277/1	100	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-C10	NURSE C104	1.0	HORIZ.	400	0.5	0.125	13.6	9.5	64.0	80.3	12.8	52.0	43.1	2.0	5.3	6.6	15.0	460/3	50	15.0 / 3.1	130.0	DAIKIN MODEL WCCW5012	1 , 2 , 3
	HP-C11	LIBRARY C118	4.0	HORIZ.	1,800	0.5	0.75	49.4	37.3	64.0	78.6	48.3	52.0	42.9	8.0	7.1	13.4	15.0	460/3	460	18.2 / 3.9	325.0	DAIKIN MODEL WCCW5048	1 , 2 , 3
	HP-C12	CORRIDOR C119	1.5	HORIZ.	600	0.75	0.33	15.7	12.4	64.0	78.7	14.7	52.0	43.1	2.5	2.1	8.9	15.0	277/1	60	15.0 / 3.1	225.0	DAIKIN MODEL WCCW4015	1 , 2 , 3
	HP-C13	CORRIDOR C116	1.5	HORIZ.	600	0.75	0.33	15.7	12.4	64.0	78.7	14.7	52.0	43.1	2.5	2.1	8.9	15.0	277/1	65	15.0 / 3.1	225.0	DAIKIN MODEL WCCW4015	1 , 2 , 3
AREA D	HP-D1	CLASSROOM D102	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3 , 4
	HP-D2	CLASSROOM D103	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3 , 4
	HP-D3	CLASSROOM D104	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3 , 4
	HP-D4	CLASSROOM D105	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	440	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3 , 4
	HP-D5	CORRIDOR D101 / FOYER D101A	1.5	HORIZ.	630	0.5	0.33	20.6	14.2	64.0	80.1	18.5	52.0	42.7	3.0	1.4	11.5	15.0	277/1	115	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-D6	CLASSROOM D111	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-D7	CLASSROOM D112	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-D8	CLASSROOM D113	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	440	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
	HP-D9	CLASSROOM D114	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.8	52.0	43.4	6.0	3.8	11.3	15.0	460/3	440	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3
	HP-D10	EXTENDED RES. D115	2.5	HORIZ.	1,140	0.5	0.5	31.5	24.7	64.0	80.6	29.8	52.0	41.9	4.5	2.1	18.1	25.0	277/1	460	18.4 / 3.8	250.0	DAIKIN MODEL WCCW5030	1 , 2 , 3
AREA E	HP-E1	P.E./CUST. OFFICE	1.5	HORIZ.	630	0.5	0.33	20.6	14.2	64.0	80.1	18.5	52.0	42.7	3.0	1.4	11.5	15.0	277/1	130	19.0 / 3.7	225.0	DAIKIN MODEL WCCW5019	1 , 2 , 3
	HP-E2	KITCHEN E107	5.0	HORIZ.	1,800	0.5	1.0	57.1	40.6	64.0	75.2	60.8	52.0	44.3	12.0	11.8	16.7	20.0	460/3	340	17.9 / 3.9	350.0	DAIKIN MODEL WCCW5060	1 , 2 , 3
AREA F	HP-F1	STAGE F101	4.0	HORIZ.	1,800	0.5	0.75	49.4	37.3	64.0	78.6	48.3	52.0	42.9	8.0	7.1	13.4	15.0	460/3	860	18.2 / 3.9	325.0	DAIKIN MODEL WCCW5048	1 , 2 , 3
	HP-F2	CLASSROOM F103	3.0	HORIZ.	1,300	0.5	0.5	37.7	29.3	64.0	78.7	34.7	52.0	43.4	6.0	3.8	11.3	15.0	460/3	485	18.8 / 3.8	250.0	DAIKIN MODEL WCCW5036	1 , 2 , 3

REMARKS:
1. APPROVED ALTERNATE MANUFACTURERS: CLIMATE MASTER, CARRIER, WATER FURNACE, AND TRANE.
2. SEE CONTROLS SHEET M8.2 FOR SEQUENCE OF OPERATION.
3. PROVIDE W/EXTRA-QUIET CONSTRUCTION, 2" PLEATED FILTER RACK (SEE HEAT PUMP DETAIL), RUN-OUT SIZED GRISWOLD 24" (STAINLESS STEEL) AUTOMATIC BALANCING HOSE KIT (TEST PLUGS, BALL VALVES AND STRAINER), AND DRAIN PAN OVERFLOW SENSOR. CONTROL VALVE PROVIDED BY CONTROLS CONTRACTOR.
4. PROVIDE UNIT UNDER BID ALTERNATE #2.

LKV ARCHITECTS
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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
#

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
M7.3
MECHANICAL SCHEDULES

CONTROL VALVE SCHEDULE

SYMBOL	SERVES	VALVE TYPE	OPERATION	FLUID	FLOW (GPM)	FLOW RANGE (GPM)	P.D. (PSI)	MAXIMUM P.D. (PSI)	SIZE (IN)	CONTROL	MANUFACTURER AND MODEL	REMARKS
BCV-1	HEAT EXCHANGER BYPASS	PRESSURE INDEPENDENT	2-WAY MODULATING	100% WATER	220	46-308	4.0	5.0	4.0	REFER TO THE CONTROL SCHEMATICS	B&G ULTRA SETTER	1 , 2 , 3
BCV-2	CONDENSER LOOP BYPASS	PRESSURE INDEPENDENT	2-WAY MODULATING	100% WATER	265	46-308	4.6	5.0	3.0	REFER TO THE CONTROL SCHEMATICS	B&G ULTRA SETTER	1 , 2 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: BELIMO, GRISWOLD, ALFA-LAVAL.
2. CAPACITIES BASED ON 100% WATER.
3. PROVIDE STAINLESS STEEL VALVE.

RESIDENTIAL HOOD W / FIRE SUPPRESSION SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	HOOD DIMENSIONS			EXHAUST AIR			ELECTRICAL		MAXIMUM SONES	MANUFACTURER AND MODEL	REMARKS
			LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	AIRFLOW CFM	MAX S.P. LOSS	DUCT CONNECTION	V/Ø	AMPS			
H-D1	EXTENDED RESOURCE D115	UNDER CABINET MOUNTED / DUCTED	30	6	17 1/2	100	0.25	7"□	120/1	1.4	5.0	BROAN MODEL TENAYA BNSC130SS WITH GUARDIAN MODEL G300-B FIRE SUPPRESION SYSTEM	1 , 2 , 3 , 4

REMARKS:

1. APPROVED ALTERNATES: UPON PRIOR APPROVAL OF ENGINEER.
2. PROVIDE UL 300A COMPLIANT WET CHEMICAL FIRE SUPPRESSION SYSTEM, HOOD AND DUCT NOZZLES, WALL MOUNTED MANUAL PULL STATION, AUTOMATIC FUEL SHUT-OFF VALVE/RELAY, OPEN MESH GREASE FILTER, INTEGRAL 2 LEVEL RANGE LIGHT, 2 LEVEL HALOGEN LIGHT BULB(S), BACKDRAFT DAMPER, AND MANUFACTURER'S ALUMINUM ROOF CAP (FLAT ROOF) EQUAL TO COOK MODEL PR (W/ ROOF CURB),
3. SHUTOFF SHALL BE HARDWIRED BY ELECTRICAL CONTRACTOR. ACTIVATION OF FIRE SUPPRESSION SYSTEM SHALL TRIGGER FIRE ALARM, AND SHUT OFF APPLIANCE FUEL SOURCE(S). COORDINATE FIRE ALARM CONNECTION WITH ELECTRICAL CONTRACTOR.
4. PROVIDE WITH WALL MOUNTED 2-SPEED ROCKER STYLE CONTROLLER. MOUNT AT ADA COMPLIANT HEIGHT AND LOCATION.

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M7.4

MECHANICAL SCHEDULES

CONTROLS LEGEND

SYMBOL	DESCRIPTION
AI	ANALOG INPUT
DI	DIGITAL INPUT
AO	ANALOG OUTPUT
DO	DIGITAL OUTPUT
--	CONTROL ELEMENT TAG
	3-WAY, 2-WAY CONTROL VALVE
	PARALLEL BLADE CONTROL DAMPER
	OPPOSED BLADE CONTROL DAMPER
	OPPOSED BLADE CONTROL DAMPER

CONTROLS LEGEND

SYMBOL	DESCRIPTION
M	MOTOR
	THERMOWELL
	CURRENT SENSING RELAY
	CONTROL RELAY
AS	AIRFLOW MEASURING STATION (EBTRON GOLD SERIES) BY CONTROL CONTRACTOR
DX C	DX REFRIGERANT COOLING COIL
C C	CHILLED WATER COOLING COIL
H C	HOT WATER HEATING COIL
HR C	HEAT RECOVERY COIL
PH C	HOT WATER PREHEAT COIL
RH C	HOT WATER REHEAT COIL
	GAS-FIRED HEAT EXCHANGER
T	THERMOSTAT
S	SPACE TEMPERATURE SENSOR
H	SPACE HUMIDITY SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
PT	SPACE PRESSURE TRANSMITTER
	LOW VOLTAGE SIGNAL
	LINE VOLTAGE POWER

NOTES:
1. ALL DATA THAT IS NOTED TO BE "ADJUSTABLE" ON THE FOLLOWING CONTROL SHEETS SHALL MADE BOTH ADJUSTABLE AND LOCKABLE FROM THE OPERATOR'S WORKSTATION AND IN PARTICULAR, THE GRAPHICAL USER INTERFACE (GUI).
2. GLOBAL CALENDAR SCHEDULING SHALL BE PROVIDED.

CONTROLS LEGEND

SYMBOL	DESCRIPTION
APS	AIRFLOW PROVING SWITCH
BAS	BUILDING AUTOMATION SYSTEM
BCV	BYPASS CONTROL VALVE
C	CONDENSATE
CFL	CONDENSATE FLOAT LEVEL SWITCH
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONTROL RELAY
CSR	CURRENT SENSING RELAY
D	DAMPER
DA	DAMPER ACTUATOR
DDC	DIRECT DIGITAL CONTROLS
DP	DEW POINT TRANSMITTER
DPT	DAMPER POSITION TRANSMITTER
FM	FLOW METER (TURBINE STYLE)
FS	FLOW SWITCH
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HL	HUMIDITY HIGH LIMIT SWITCH
HT	HUMIDITY TRANSMITTER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LS	LIMIT SWITCH
PDS	PRESSURE DIFFERENTIAL SWITCH
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PS	PRESSURE SWITCH
PT	PRESSURE TRANSMITTER
RS	ROTATION SENSOR
SV	SOLENOID VALVE
TT	TEMPERATURE TRANSMITTER
TV	TEMPERATURE CONTROL VALVE
WL	WATER LEVEL SWITCH

GENERAL:
THE DESTRATIFICATION FAN SYSTEM CONSISTS OF A CEILING MOUNTED FAN, TWO SPACE TEMPERATURE SENSORS, AND A WALL-MOUNTED OVERRIDE SWITCH. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DIGITAL CONTROL PACKAGE. A SEPARATE SYSTEM SHALL BE INSTALLED IN THE GYM AND THE CAFETERIA.

THE NEW SPACE TEMPERATURE SENSORS SHALL SIGNAL THE DDC CONTROLLER THEIR TEMPERATURES AND THE TEMPERATURE OF THE HEATING SET POINT.

DESTRATIFICATION MODE OF OPERATION:
THE DESTRATIFICATION FAN SYSTEM SHALL BE ENABLED AND THE FANS SHALL MODULATE WHENEVER THE FOLLOWING CONDITION EXISTS BASED ON INTERVALS OF TEMPERATURE RISE:

1. THE HIGH SPACE TEMPERATURE RISES ABOVE THE LOW SPACE TEMPERATURE BY:
   a. 0-3°F (ADJUSTABLE) - 50% FAN SPEED
   b. 3-6°F (ADJUSTABLE) - 75% FAN SPEED
   c. 6°F+ (ADJUSTABLE) - 100% FAN SPEED

WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING BASED ON INTERVALS OF TEMPERATURE RISE:

1. SEND AN ENABLE COMMAND TO THE DESTRATIFICATION FANS.
   a. VALIDATE THE STATUS OF THE FANS THROUGH THE CURRENT SENSING RELAYS.
      1) IF ANY FAN FAILS TO ENABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE DESTRATIFICATION FAN SHALL CONTINUE TO MODULATE TO MAINTAIN THE ABOVE MENTIONED TEMPERATURE INTERVALS.

THE DESTRATIFICATION MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE HIGH SPACE TEMPERATURE IS EQUAL TO OR BELOW THE LOW SPACE TEMPERATURE.

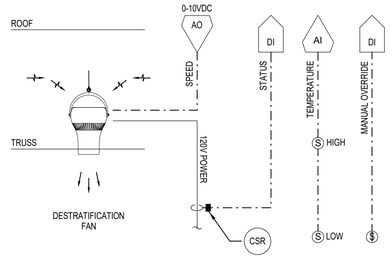
WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE DESTRATIFICATION FANS.
   a. VALIDATE THE STATUS OF THE FANS THROUGH THE CURRENT SENSING RELAYS.
      1) IF ANY FAN FAILS TO DISABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OVERRIDE SWITCHES SHALL ENERGIZE EACH FAN AT 100% SPEED (ADJUSTABLE) REGARDLESS OF THE CURRENT STATE OF THE FAN. THIS OVERRIDE SHALL LAST FOR (2) HOURS (ADJUSTABLE). AFTERWARDS THE FAN CONTROL SHALL REVERT BACK TO THE ORIGINAL OPERATION.

DESTRATIFICATION FAN SEQUENCE OF OPERATION

(DF-1, DF-2, DF-3, DF-4, DF-5, & DF-8)



DESTRATIFICATION FAN CONTROL SCHEMATIC

(DF-1, DF-2, DF-3, DF-4, DF-5, & DF-8)

GENERAL:
THE DUCTLESS SPLIT SYSTEM SHALL CONSIST OF AN INDOOR FAN COIL UNIT, AN OUTDOOR CONDENSING UNIT, AND A MANUFACTURER PROVIDED WIRELESS CONTROLLER.

OPERATION:
THE WIRELESS CONTROLLER SHALL CONTROL THE OPERATION OF THE DUCTLESS SPLIT SYSTEM.

COOLING MODE OF OPERATION (FC-A1/CU-A1, FC-C1/CU-C1, FC-E1/CU-E1, & FC-F1/CU-F1):
IF COOLING IS REQUIRED, THE WIRED CONTROLLER SHALL ENABLE THE COMPRESSORIZED COOLING SYSTEM TO MAINTAIN THE USER ADJUSTABLE COOLING SPACE SET POINT. IF THE SPACE IS BELOW THE COOLING SET POINT, THE DUCTLESS SPLIT SYSTEM SHALL BE DISABLED.

HEATING MODE OF OPERATION (FC-A1/CU-A1, FC-C1/CU-C1, & FC-E1/CU-E1):
IF HEATING IS REQUIRED, THE WIRED CONTROLLER SHALL ENABLE THE COMPRESSORIZED HEATING SYSTEM TO MAINTAIN THE USER ADJUSTABLE HEATING SPACE SET POINT. IF THE SPACE IS ABOVE THE HEATING SET POINT, THE DUCTLESS SPLIT SYSTEM SHALL BE DISABLED.

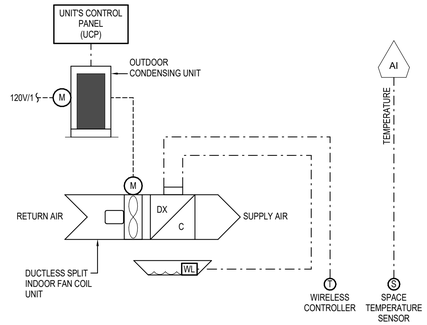
THE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE).
THE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

FC-F1/CU-F1 SHALL BE LOCKED OUT OF HEATING MODE.

SAFETIES:
1. IF THE SPACE TEMPERATURE INCREASES TO 85°F (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. THE SYSTEM SHALL BE DISABLED WHENEVER THE WATER LEVEL OVERFLOW SWITCH INDICATES A HIGH CONDENSATE LEVEL.

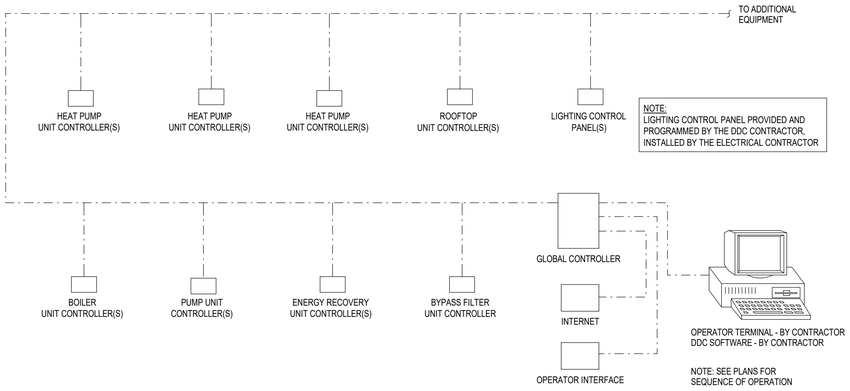
DUCTLESS SPLIT SYSTEM SEQUENCE OF OPERATION

(FC-A1/CU-A1, FC-C1/CU-C1, FC-E1/CU-E1, & FC-F1/CU-F1)



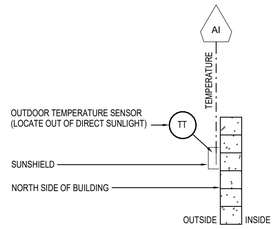
DUCTLESS SPLIT SYSTEM CONTROL SCHEMATIC

(FC-A1/CU-A1, FC-C1/CU-C1, FC-E1/CU-E1, & FC-F1/CU-F1)



GENERAL:
ONE OUTSIDE AIR TEMPERATURE SENSOR SHALL BE INSTALLED ON THE NORTH SIDE OF THE BUILDING TO PROVIDE A CONTINUOUS READING OF THE OUTSIDE AIR TEMPERATURE.

OUTSIDE AIR TEMPERATURE SEQUENCE OF OPERATION



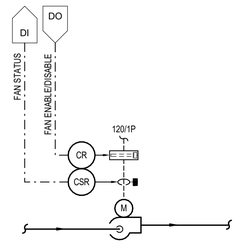
OUTSIDE AIR TEMPERATURE CONTROL SCHEMATIC

GENERAL
THE DOMESTIC HOT WATER RECIRCULATION PUMPS SHALL OPERATE FROM THE DDC SYSTEM.

OPERATION
THE DDC SYSTEM SHALL ENABLE THE DOMESTIC HOT WATER RETURN PUMP BASED ON THE OCCUPIED BUILDING SCHEDULE. IF THE PUMP IS SIGNALED ON AND DOES NOT PROVIDE PROOF OF OPERATION, THE CONTROL SYSTEM SHALL GENERATE AN ALARM AT THE CENTRAL OPERATOR'S WORKSTATION.

DOMESTIC HOT WATER PUMP SYSTEM SEQUENCE OF OPERATION

(ALL DOMESTIC HOT WATER RECIRCULATION PUMPS)



DOMESTIC HOT WATER PUMP CONTROL SCHEMATIC

(ALL DOMESTIC HOT WATER RECIRCULATION PUMPS)

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
M8.1
MECHANICAL CONTROLS

GENERAL :
THE ENERGY RECOVERY SYSTEM SHALL CONSIST OF AN ENERGY RECOVERY UNIT W/ A MOTORIZED OUTDOOR AIR INTAKE DAMPER, MOTORIZED EXHAUST AIR DAMPER, SUPPLY AND EXHAUST AIR FILTERS, TOTAL ENERGY RECOVERY CORE, SUPPLY AIR FAN, AND AN EXHAUST AIR FAN. THE SYSTEM SHALL BE PROVIDED WITH AN INDIVIDUAL DDC CONTROLLER LOCATED AT THE UNIT.

THE ENERGY RECOVERY SYSTEM SHALL BE ENABLED BASED ON THE MASTER BUILDING'S OCCUPANCY SCHEDULE.

OPERATION :
WHEN THE ENERGY RECOVERY SYSTEM IS ENABLED THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN OPEN COMMAND TO THE EXHAUST AIR DAMPER.
   a. VALIDATE THE POSITION OF THE DAMPER THROUGH THE LIMIT SWITCH.
      1) IF THE DAMPER FAILS TO OPEN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION. THE UNIT'S EXHAUST FAN SHALL REMAIN OFF BUT THE SUPPLY FAN SEQUENCE SHALL CONTINUE.
2. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD INTERFACE.
      1) IF THE EXHAUST FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
3. SEND AN OPEN COMMAND TO THE OUTSIDE AIR INTAKE DAMPER.
   a. VALIDATE THE POSITION OF THE DAMPER THROUGH THE LIMIT SWITCH.
      1) IF THE DAMPER FAILS TO OPEN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION AND THE UNIT'S SUPPLY FAN SHALL REMAIN OFF BUT THE EXHAUST FAN SHALL REMAIN ENABLED.
4. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD INTERFACE.
      1) IF THE SUPPLY FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE TOTAL CFM OF AIR INTO AND OUT OF THE BUILDING SHALL BE MONITORED FOR INFORMATIONAL PURPOSES.

WITH THE ENERGY RECOVERY UNIT OPERATING, THE DDC CONTROLLER SHALL MONITOR THE OUTSIDE AIR INTAKE TEMPERATURE, EXHAUST AIR TEMPERATURE AND THE SUPPLY AIR TEMPERATURE TO DETERMINE IF THE SYSTEM WILL ENTER INTO THE ECONOMIZER OR LOW AMBIENT CONTROL MODES NOTED BELOW.

ECONOMIZER MODE :
THE ENERGY RECOVERY UNIT SHALL ENTER INTO THE ECONOMIZER MODE WHEN THE FOLLOWING CONDITION EXISTS:

1. THE OUTSIDE AIR INTAKE TEMPERATURE IS BETWEEN THE ECONOMIZER MODE ENABLE SETPOINTS OF 55°F (ADJUSTABLE) AND 75°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE BYPASS DAMPER.

THE BYPASS DAMPER SHALL BE DISABLED WHEN THE FOLLOWING CONDITION EXISTS:

1. THE OUTSIDE AIR INTAKE TEMPERATURE RISES ABOVE OR DROPS BELOW THE ECONOMIZER MODE ENABLE SET POINTS FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE).

FROST CONTROL MODE :
THE ENERGY RECOVERY UNIT SHALL ENTER INTO THE FROST CONTROL MODE WHEN THE FOLLOWING CONDITION EXISTS:

1. THE OUTSIDE AIR TEMPERATURE IS BELOW 5°F (ADJUSTABLE).

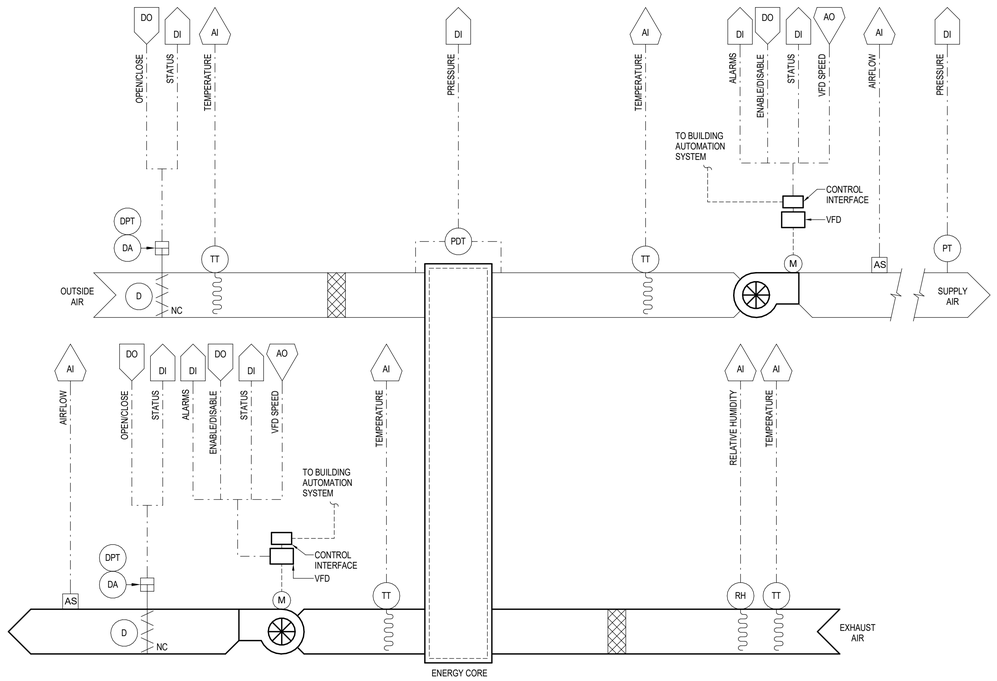
WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD INTERFACE.
      1) IF THE SUPPLY FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

ONCE THE DISABLE COMMAND HAS BEEN CONFIRMED, SUPPLY FAN SHALL REMAIN OFF FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE). AFTER THE TIME DELAY HAS EXPIRED, THE SUPPLY FAN SHALL ONCE AGAIN BE ENABLED.

THE MINIMUM DISCHARGE AIR TEMPERATURE SHALL BE SET TO 50°F (ADJUSTABLE).

ENERGY RECOVERY UNIT SEQUENCE OF OPERATION
NTS



ENERGY RECOVERY UNIT SYSTEM CONTROL SCHEMATIC
NTS

GENERAL :
THE WATER SOURCE HEAT PUMP UNIT SYSTEM CONSISTS OF A SUPPLY FAN, AND A 2-WAY MODULATING CONDENSER WATER CONTROL VALVE (PROVIDED BY CONTROL CONTRACTOR). THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE.

OPERATION :
THE SUPPLY FAN SHALL START AND STOP ON THE MASTER WEEKLY AND HOLIDAY SCHEDULE.

THE NEW SPACE TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING AND COOLING SET POINTS. THE TEMPERATURE SENSORS SHALL BE PROVIDED WITH AN OCCUPANT ADJUSTABILITY OF +/- 1°F (ADJUSTABLE).

THE NEW DDC CONTROLLER SHALL BE CAPABLE OF BEING MANUALLY RESET TO THE OCCUPIED MODE FOR A 2-HOUR TIME PERIOD (ADJUSTABLE) UPON A SIGNAL FROM AN OVERRIDE BUTTON LOCATED ON THE TEMPERATURE SENSOR.

OCCUPIED MODE :
WHEN THE UNIT IS SCHEDULED ON THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE HEAT PUMP UNIT TO RUN CONTINUOUSLY.
   a. VALIDATE THE STATUS OF THE SUPPLY FAN THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SUPPLY FAN FAILS TO RUN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).
THE OCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE).

HEATING MODE OF OPERATION :
THE HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE 2-WAY CONDENSER WATER CONTROL VALVE.
   a. THE CONTROLLER SHALL OPEN THE WATER CONTROL VALVE TO MAINTAIN THE SPACE TEMPERATURE HEATING SET POINT.
      1) IF THE SPACE IS CALLING FOR HEAT AND THE SUPPLY AIR TEMPERATURE FAILS TO INCREASE BY 5°F (ADJUSTABLE) AFTER 5 MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN ENABLE COMMAND TO THE COMPRESSOR.
   a. THE DDC CONTROLLER SHALL MODULATE THE COMPRESSOR AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE HEATING SET POINT.

COOLING MODE OF OPERATION :
THE COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT.

WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE 2-WAY CONDENSER WATER CONTROL VALVE.
   a. THE CONTROLLER SHALL OPEN THE WATER CONTROL VALVE TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.
      1) IF THE SPACE IS CALLING FOR COOLING AND THE SUPPLY AIR TEMPERATURE FAILS TO REDUCE BY 5°F (ADJUSTABLE) AFTER 5 MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN ENABLE COMMAND TO THE COMPRESSOR.
   a. THE DDC CONTROLLER SHALL MODULATE THE COMPRESSOR AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

TEMPORARY UNOCCUPIED MODE:
THE SPACE OCCUPANCY SENSOR SHALL BE WIRED TO THE HEAT PUMP UNIT. IF THE SPACE BECOMES UNOCCUPIED THE UNIT SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE HEAT PUMP UNIT.
   a. VALIDATE THE STATUS OF THE SUPPLY FAN THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SUPPLY FAN FAILS TO DISABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A CLOSE COMMAND TO THE THE CONDENSER WATER CONTROL VALVE.
   a. IF THE VALVE FAILS TO CLOSE AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE TEMPORARY UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 66°F (ADJUSTABLE).
THE TEMPORARY UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 79°F (ADJUSTABLE).

UNOCCUPIED MODE:
THE HEAT PUMP UNIT SUPPLY FAN SHALL CYCLE ON A CALL FOR HEATING OR COOLING AND SHALL BE OFF OTHERWISE.

1. SEND A DISABLE COMMAND TO THE HEAT PUMP UNIT.
   a. VALIDATE THE STATUS OF THE SUPPLY FAN THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SUPPLY FAN FAILS TO DISABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A CLOSE COMMAND TO THE THE CONDENSER WATER CONTROL VALVE.
   a. IF THE VALVE FAILS TO CLOSE AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 55°F (ADJUSTABLE).
THE UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE).

SAFETIES :
ALL AVAILABLE ALARMS SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE BUILDING AUTOMATION SYSTEM SHALL BE ABLE TO REMOTELY RESET THE HEAT PUMP OF ALL ALARMS AND RESTART FROM THE OPERATOR'S WORKSTATION WITHOUT PHYSICALLY TURNING ON AND OFF THE DISCONNECT.

THE COMPRESSOR WILL NOT BE ALLOWED TO OPERATE UNLESS FAN STATUS IS PROVEN.

THE COMPRESSOR WILL NOT BE ALLOWED TO OPERATE UNLESS THE LOOP CIRCULATION PUMPS ARE PROVEN AND THE CONDENSER LOOP WATER TEMPERATURE IS 45°F < TEMP < 100°F (ADJUSTABLE).

WATER SOURCE HEAT PUMP UNIT SEQUENCE OF OPERATION
NTS

WATER SOURCE HEAT PUMP CONTROL SCHEMATIC
NTS

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2/18/2022
STATE OF IDAHO
CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

M8.2
MECHANICAL CONTROLS

GENERAL :
THE HEAT RELIEF FAN UNIT SYSTEM CONSISTS OF A MOTORIZED INTAKE WALL LOUVER, MOTORIZED EXHAUST DAMPER, AN INLINE HEAT RELIEF FAN, AND A ZONE TEMPERATURE SENSOR. THE DDC CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM .

THE NEW SPACE TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE COOLING SET POINT. THE SPACE TEMPERATURE SENSOR SHALL BE PROVIDED WITH A MANUAL OVERRIDE SWITCH TO START THE FAN AND OPEN THE DAMPERS.

HEAT RELIEF MODE OF OPERATION :
THE HEAT RELIEF SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS BOTH EXIST:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE COOLING SET POINT.
2. THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING SET POINT.

WHEN THE ABOVE CONDITIONS EXIST THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN OPEN COMMAND TO THE INTAKE WALL LOUVER.
   a. VALIDATE THE POSITION OF THE INTAKE WALL LOUVER THROUGH THE DAMPER END SWITCH.
      1) IF THE LOUVER FAILS TO OPEN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN OPEN COMMAND TO THE EXHAUST DAMPER.
   a. VALIDATE THE POSITION OF THE EXHAUST DAMPER THROUGH THE DAMPER END SWITCH.
      1) IF THE DAMPER FAILS TO OPEN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
3. SEND AN ENABLE COMMAND TO THE HEAT RELIEF FAN TO RUN CONTINUOUSLY.
   a. VALIDATE THE STATUS OF THE FAN THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO RUN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE HEAT RELIEF MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

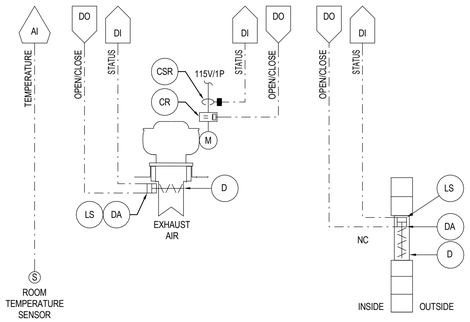
1. THE SPACE TEMPERATURE REACHES 3°F BELOW THE COOLING SET POINT.

WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE HEAT RELIEF FAN.
   a. VALIDATE THE STATUS OF THE FAN THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO DISABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A CLOSE COMMAND TO THE EXHAUST DAMPER.
   a. VALIDATE THE POSITION OF THE EXHAUST DAMPER THROUGH THE DAMPER END SWITCH.
      1) IF THE DAMPER FAILS TO CLOSE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
3. SEND A CLOSE COMMAND TO THE INTAKE WALL LOUVER.
   a. VALIDATE THE POSITION OF THE INTAKE WALL LOUVER THROUGH THE DAMPER END SWITCH.
      1) IF THE LOUVER FAILS TO CLOSE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE).
THE HEAT RELIEF FAN SHALL HAVE A MINIMUM OPERATION TIME OF 5 MINUTES (ADJUSTABLE)

HEAT RELIEF FAN SEQUENCE OF OPERATION
(EF-E2/L-E1 & EF-E3/L-E2)



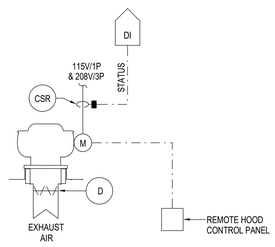
HEAT RELIEF FAN CONTROL SCHEMATIC
(EF-E2/L-E1 & EF-E3/L-E2)

GENERAL :
THE KITCHEN HOOD EXHAUST FAN SYSTEM SHALL CONSIST OF A ROOF-MOUNTED UTILITY EXHAUST FAN, A KITCHEN HOOD, AND A REMOTE HOOD CONTROL PANEL. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE.

THE EXHAUST FAN SHALL BE CONTROLLED THROUGH THE EXHAUST HOOD CONTROL PANEL.

THE DDC CONTROLLER SHALL MONITOR THE STATUS OF THE EXHAUST FAN. IF THE FAN IS ON DURING NORMALLY UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

HOOD EXHAUST FAN SEQUENCE OF OPERATION
(KEF-1 & KEF-2)



HOOD EXHAUST FAN CONTROL SCHEMATIC
(KEF-1 & KEF-2)

GENERAL :
THE ELECTRIC HEATER SYSTEM SHALL CONSIST OF A WALL MOUNTED ELECTRIC HEATER, A SUPPLY FAN, AND A SPACE TEMPERATURE SENSOR. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM .

THE INDOOR TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING SET POINT.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

HEATING MODE OF OPERATION :
THE HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
2. SEND AN ENABLE COMMAND TO THE ELECTRIC HEATER.
   a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE.
      1) IF THE SPACE TEMPERATURE FALLS BELOW 50°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE HEATING MODE OF OPERATION SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXIST:

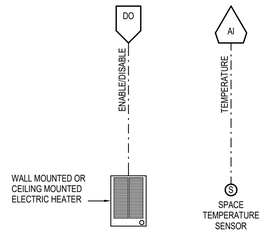
1. THE SPACE TEMPERATURE INCREASES 2°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

WHEN ONE OF THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE ELECTRIC HEATER.
   a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE.
      1) IF THE SPACE TEMPERATURE INCREASES ABOVE 85°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

THE SPACE TEMPERATURE HEATING SET POINT SHALL BE 60°F.

ELECTRIC HEATER SYSTEM SEQUENCE OF OPERATION
NTS



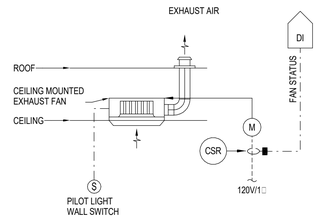
ELECTRIC HEATER SYSTEM CONTROL SCHEMATIC
NTS

GENERAL :
THE GENERAL EXHAUST FAN SYSTEM SHALL CONSIST OF A CEILING-MOUNTED EXHAUST FAN, AND A PILOT LIGHT WALL SWITCH. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE.

THE EXHAUST FAN SHALL BE CONTROLLED THROUGH A WALL SWITCH.

THE DDC CONTROLLER SHALL MONITOR THE STATUS OF THE EXHAUST FAN. IF THE FAN IS ON DURING NORMALLY UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

GENERAL EXHAUST FAN SEQUENCE OF OPERATION
(EF-A1, EF-B1, EF-D1, & EF-E1)



GENERAL EXHAUST FAN CONTROL SCHEMATIC
(EF-A1, EF-B1, EF-D1, & EF-E1)

GENERAL :
THE VESTIBULE ELECTRIC HEATER SHALL CONSIST OF AN ELECTRIC HEATING ELEMENT, A SUPPLY FAN, AND A SPACE TEMPERATURE SENSOR. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM.

THE TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE SPACE HEATING SET POINT.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

OPERATION :
THE ELECTRIC HEATER SHALL BE ENABLED WHENEVER BOTH OF THE FOLLOWING CONDITIONS EXISTS:

1. THE OUTSIDE AIR TEMPERATURE DECREASES TO THE ELECTRIC HEATER OUTSIDE AIR TEMPERATURE ENABLE SET POINT.
2. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITIONS ARE MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
2. SEND AN ENABLE COMMAND TO THE ELECTRIC HEATER.
   a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE.
      1) IF THE SPACE TEMPERATURE FALLS BELOW 50°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE ELECTRIC HEATER SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE OUTSIDE AIR TEMPERATURE INCREASES ABOVE THE ELECTRIC HEATER OUTSIDE AIR TEMPERATURE ENABLE SET POINT.
2. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

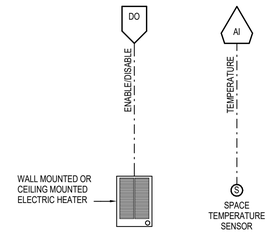
WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE ELECTRIC HEATER.
   a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE.
      1) IF THE SPACE TEMPERATURE INCREASES ABOVE 85°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

THE ELECTRIC HEATER OUTSIDE AIR TEMPERATURE ENABLE SET POINT SHALL BE SET AT 45°F.
THE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 60°F (ADJUSTABLE).

SAFETIES :
1. IF THE SPACE TEMPERATURE DROPS TO 35°F (ADJUSTABLE) FOR A PERIOD OF 120 CONSECUTIVE SECONDS (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

VESTIBULE ELECTRIC HEATER SYSTEM SEQUENCE OF OPERATION
(EH-A1, EH-A2, EH-B1, EH-B2, EH-C1, EH-D1, EH-D2, EH-E1, & EH-F1)



VESTIBULE ELECTRIC WALL HEATER SYSTEM CONTROL SCHEMATIC
(EH-A1, EH-A2, EH-B1, EH-B2, EH-C1, EH-D1, EH-D2, EH-E1, & EH-F1)

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2/18/2022
STATE OF IDAHO
CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
M8.3
MECHANICAL CONTROLS

GENERAL :
THE PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) AND CARBON DIOXIDE CONTROL SHALL CONSIST OF AN OUTSIDE AIR INTAKE W/ MODULATING DAMPERS, A RETURN AIR INTAKE, AN EXHAUST FAN W/ MODULATING DAMPERS AND A VFD, A SUPPLY FAN, A GAS-FIRED HEAT EXCHANGER, A DX COOLING COIL, AND A CARBON DIOXIDE SENSOR. THE DDC CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE UNIT.

THE SUPPLY FAN SHALL START AND STOP ON THE MASTER WEEKLY AND HOLIDAY SCHEDULE SET AT THE OPERATOR'S WORKSTATION.

THE TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING AND COOLING SET POINTS.

THE CARBON DIOXIDE SENSOR SHALL SIGNAL THE DDC CONTROLLER THE SPACE CO $_2$LEVEL.

THERE SHALL BE NO SPACE TEMPERATURE OR CO $_2$LEVELS DISPLAYED.

THE DDC CONTROLLER SHALL BE CAPABLE OF BEING MANUALLY RESET TO THE OCCUPIED MODE FOR A 2-HOUR TIME PERIOD (ADJUSTABLE) UPON A SIGNAL FROM AN OVERRIDE BUTTON LOCATED ON THE TEMPERATURE SENSOR.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

MORNING WARM-UP / COOLDOWN :
MORNING WARM-UP / COOLDOWN SHALL BE CONTROLLED BY AN OPTIMUM START / STOP MODE PROVIDED BY THE DDC CONTROLLER THAT AIDS IN THE REDUCTION OF ENERGY COSTS DURING A BUILDING'S TRANSITION FROM UNOCCUPIED TO OCCUPIED OR OCCUPIED TO UNOCCUPIED. THIS SCENARIO IS ACCOMPLISHED BY TURNING ON THE PRE-HEATING / PRE-COOLING AS LATE AS POSSIBLE TO REACH COMFORT LEVELS PRIOR TO OCCUPANCY AND TURNING OFF THE HEATING / COOLING AS EARLY AS POSSIBLE WHILE STILL MAINTAINING OCCUPIED ZONE COMFORT UNTIL THE ZONE IS VACANT.

THE DDC CONTROLLER OPTIMUM START / STOP MODE SHALL CONTINUOUSLY MONITOR, CALCULATE AND ADJUST THE FOLLOWING VARIABLES IN ORDER TO DETERMINE THE OPTIMAL START / STOP TIMES:

1. OUTSIDE AIR TEMPERATURE.
2. OPTIMUM ECONOMIZER POSITION (COOLDOWN).
3. RATE OF WARM-UP / COOL-DOWN AFTER EQUIPMENT START-UP.
4. TEMPERATURE DIFFERENCE BETWEEN THE ZONE TEMPERATURE AND THE HEATING / COOLING SET POINTS.
5. AMOUNT OF TIME REQUIRED TO RAISE OR LOWER THE ZONE TEMPERATURE 1°F.
6. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING THE WARM-UP MODE.

OCCUPIED MODE :
WHEN THE UNIT IS SCHEDULED INTO THE OCCUPIED MODE THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIRFLOW (AS INDICATED IN THE ROOFTOP UNIT SCHEDULE).
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAILS TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE).
THE OCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

UNOCCUPIED MODE :
WHEN THE UNIT IS SCHEDULED INTO THE UNOCCUPIED MODE, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO PROVIDE 100% RETURN AIR.
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAIL TO PROVIDE 100% RETURN AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SUPPLY FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SUPPLY FAN SHALL CYCLE W/ THE HEATING AND COOLING MODES OF OPERATION TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SET POINTS.

THE UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE).
THE UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 55°F (ADJUSTABLE).

COOLING MODE OF OPERATION (DRY BULB ECONOMIZER) :
THE DRY BULB ECONOMIZER COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL OF THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT.
2. THE OUTSIDE AIR TEMPERATURE IS 2°F (ADJUSTABLE) BELOW THE RETURN AIR TEMPERATURE.

WHEN THE ABOVE CONDITIONS ARE MET THE DIGITAL CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE UP TO 100% OUTSIDE AIR TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

COOLING MODE OF OPERATION (DX COOLING) :
THE DX COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE COOLING SET POINT.
2. THE OUTSIDE AIR / RETURN AIR DAMPERS ARE POSITIONED AT EITHER THEIR MINIMUM OR MAXIMUM OUTSIDE AIR SETTINGS.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS).
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE
      1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION
   b. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

THE COOLING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE COOLING SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) .
   a. VALIDATE THE RUNNING STATUS OF THE DX COOLING SYSTEM THROUGH THE UNIT'S CONTROLLER.
      1) IF THE DX COOLING SYSTEM FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

HEATING MODE OF OPERATION (GAS-FIRED - SECOND STAGE OF HEAT IN GYM/CAFETERIA) :
THE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT.
2. THE ASSOCIATED DESTRATIFICATION FANS HAVE BEEN IN OPERATION FOR 15 MINUTES (ADJUSTABLE). SEE DESTRATIFICATION FAN CONTROL SCHEMATIC FOR FIRST STAGE OF HEAT.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO STAGE #1 (LOW FIRE) OF THE GAS-FIRED HEATING SYSTEM:
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

IF THE SPACE TEMPERATURE DECREASES 2°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT, THE DIGITAL CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO STAGE #2 (HIGH FIRE) OF THE GAS-FIRED HEATING SYSTEM:
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SPACE TEMPERATURE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE GAS-FIRED HEATING SYSTEM.
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. ALLOW THE UNIT TO ENTER BACK INTO THE OCCUPIED / STANDBY / UNOCCUPIED MODE OF OPERATION.

INDOOR AIR QUALITY (IAQ) OPERATION :
WHENEVER THE ROOFTOP UNIT IS IN THE OCCUPIED MODE AND THE SUPPLY FAN IS ON, THE DIGITAL CONTROLLER SHALL CONTINUOUSLY CALCULATE THE MINIMUM DAMPER POSITION NECESSARY TO MAINTAIN THE SPACE CO_2 SET POINT (DEMAND CONTROLLED VENTILATION OR DCV). AS THE CO_2 LEVEL INCREASES ABOVE THE SET POINT, THE ROUTINE SHALL INCREASE THE OUTSIDE AIR REQUIREMENT AND AS THE CO_2 LEVEL FALLS BELOW THE SET POINT, THE ROUTINE SHALL DECREASE THE CALCULATED VALUE. THE MINIMUM AND MAXIMUM OUTSIDE AIR DAMPER POSITIONS SHALL BE EQUAL TO THE OUTSIDE AIRFLOWS LISTED IN THE ROOFTOP UNIT SCHEDULE.

THE SPACE CO_2 SET POINT SHALL BE SET AT 1,100 PPM (ADJUSTABLE).

THE MAXIMUM OUTSIDE AIR DAMPER POSITION IN DCV MODE SHALL BE SET TO THE AIRFLOW LISTED IN THE RTU SCHEDULE.

IAQ SHALL BE SUSPENDED AND THE OUTSIDE AIR DAMPERS SHALL BE RESET TO THEIR MINIMUM OUTSIDE AIRFLOW SETTINGS FOR A PERIOD OF 10 MINUTES (ADJUSTABLE) WHENEVER THE AVERAGE SPACE TEMPERATURE INCREASES 3°F (ADJUSTABLE) ABOVE THE SPACE COOLING SET POINT OR 3°F (ADJUSTABLE) BELOW THE SPACE HEATING SET POINT.

EXHAUST SYSTEM :
THE EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:

1. THE SUPPLY FAN IS ENABLED.
2. THE SPACE STATIC PRESSURE INCREASES TO THE DIFFERENTIAL PRESSURE SET POINT OF (POSITIVE) +0.01" W.G. (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE SECONDS (ADJUSTABLE) WITH RESPECT TO THE OUTDOOR PRESSURE.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
   b. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
   c. THE DDC CONTROLLER SHALL MODULATE THE VFD TO MAINTAIN THE SPACE STATIC PRESSURE SET POINT.

THE EXHAUST SYSTEM SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE SUPPLY FAN IS OFF.
2. THE SPACE PRESSURE DECREASES TO (NEGATIVE) -0.01" W.G. (ADJUSTABLE) FOR 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
   b. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN(S) FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

KITCHEN MAKEUP AIR MODE OF OPERATION (RTU-2A & RTU-2B ONLY) :
THE KITCHEN MAKEUP AIR MODE OF OPERATION SHALL BE ENABLED WHENEVER ONE OR BOTH OF THE FOLLOWING CONDITIONS EXIST:

1. KITCHEN EXHAUST FAN (KEF-1) IS ENABLED.
2. KITCHEN EXHAUST FAN (KEF-2) IS ENABLED.

WHEN ONE OR BOTH OF THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO MAINTAIN A POSITIVE PRESSURE OF +0.01" W.G. (ADJUSTABLE) BETWEEN THE KITCHEN AND THE CAFETERIA.
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAILS TO MODULATE OPEN, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

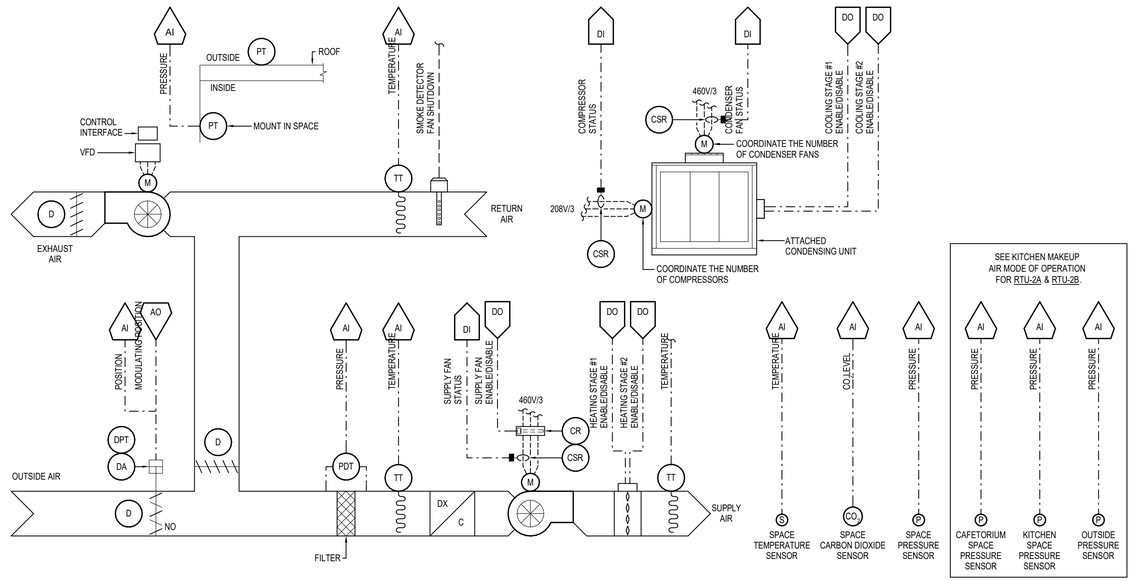
THE HEATING AND COOLING MODES SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINTS DURING THE KITCHEN MAKEUP AIR MODE OF OPERATION.

THE KITCHEN MAKEUP AIR MODE OF OPERATION SHALL BE DISABLED WHEN THE FOLLOWING CONDITIONS EXIST:

1. KITCHEN EXHAUST FAN (KEF-1) IS DISABLED.
2. KITCHEN EXHAUST FAN (KEF-2) IS DISABLED.

WHEN BOTH OF THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIRFLOW (AS INDICATED IN THE ROOFTOP UNIT SCHEDULE).
   a. VALIDATE THE POSITION OF THE DAMPERS THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPER FAILS TO CLOSE TO A MINIMUM, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. ALLOW THE UNIT TO ENTER BACK INTO THE OCCUPIED / STANDBY / UNOCCUPIED MODE OF OPERATION .



PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) CARBON DIOXIDE CONTROL CONTROL SEQUENCE OF OPERATION

(RTU-1A, RTU-1B, RTU-2A, & RTU-2B)

PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) CARBON DIOXIDE CONTROL SYSTEM SCHEMATIC

(RTU-1A, RTU-1B, RTU-2A, & RTU-2B)

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PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
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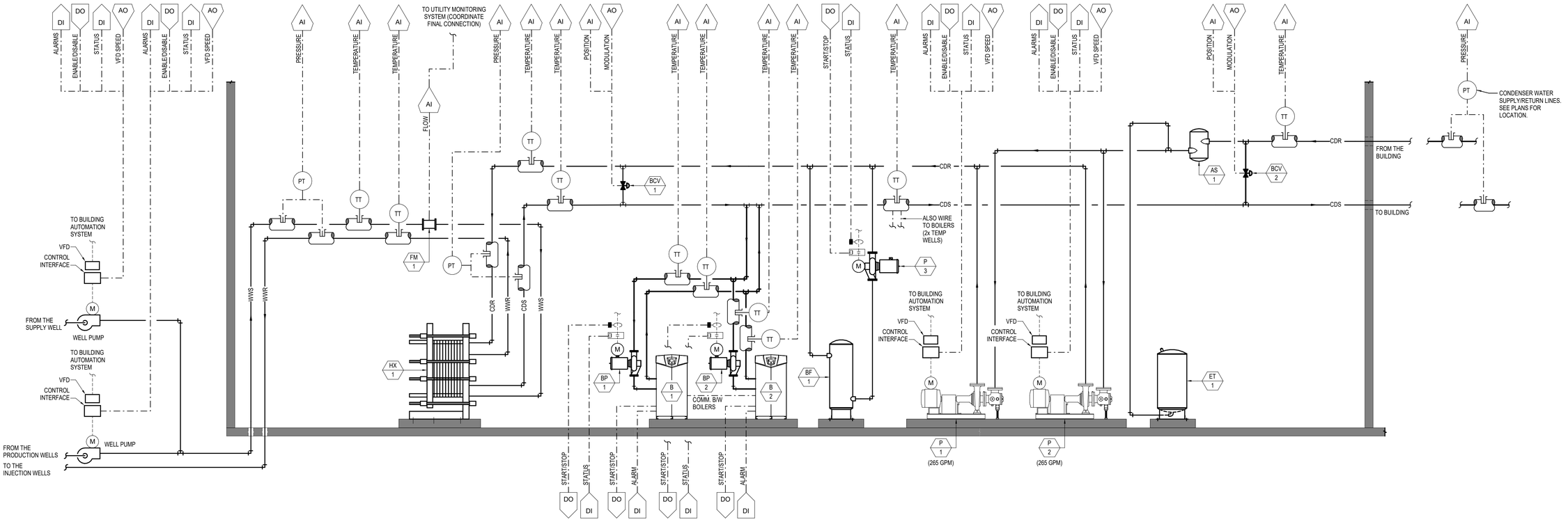
M8.4
MECHANICAL CONTROLS



CONDENSER LOOP CONTROL SCHEMATIC

NTS

GENERAL :
THE CONDENSER LOOP SYSTEM CONSISTS OF INJECTION AND PRODUCTION WELLS, BACKUP HOT WATER BOILERS WITH PRIMARY PUMPS, SECONDARY PUMPS WITH VARIABLE FREQUENCY DRIVES, A HEAT EXCHANGER BYPASS CONTROL VALVE, A CONDENSER LOOP BYPASS CONTROL VALVE, A GROUND LOOP HEAT EXCHANGER, AND WELL LOOP PUMPS WITH VARIABLE FREQUENCY DRIVES. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

OPERATION :
THE SECONDARY PUMPING SYSTEM SHALL BE ENABLED WHENEVER ONE OF THE FOLLOWING CONDITION EXISTS:

1. THERE IS A CALL FOR HEATING OR COOLING FROM ONE OF THE WATER-SOURCE HEAT PUMPS.
2. THE OUTDOOR AIR TEMPERATURE DROPS BELOW 40°F (ADJUSTABLE).
3. THE CONDENSER LOOP TEMPERATURE FALLS BELOW 42°F (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE LEAD SECONDARY WATER PUMP (P-1).
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
      1) IF THE LEAD PUMP FAILS TO START, THE STANDBY PUMP SHALL BE ENABLED (P-2). AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
      2) IF THE STANDBY PUMP FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. MODULATE THE VFD BASED ON A DIFFERENTIAL PRESSURE SETPOINT (ADJUSTABLE) LOCATED ACROSS THE PIPING ASSEMBLY. THE SETPOINT SHALL BE COORDINATED BETWEEN THE BALANCE CONTRACTOR AND THE CONTROL CONTRACTOR. THE SETPOINT SHALL BE SUFFICIENT ENOUGH TO ALLOW ADEQUATE FLOW TO ALL HEAT PUMP COILS.
3. MODULATE THE HEAT EXCHANGER BYPASS CONTROL VALVE (BCV-1) TO MAINTAIN A DIFFERENTIAL PRESSURE ACROSS THE CONDENSER WATER SIDE OF THE HEAT EXCHANGER OF 7 PSI.
4. SEND AN ENABLE COMMAND TO THE BYPASS FILTER WATER PUMP (P-3). THIS PUMP SHALL OPERATE WHEN THE LEAD SECONDARY WATER PUMP IS OPERATING.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE PUMP FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

IN THE EVENT THAT THE LEAD SECONDARY WATER PUMP IS OPERATING ABOVE 90% CAPACITY (ADJUSTABLE) AND IS UNABLE TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINT, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE LAG SECONDARY HEATING WATER PUMP.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
   b. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SECONDARY PUMP FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. THE TWO SECONDARY HEATING WATER PUMPS SHALL CONTINUE TO OPERATE IN PARALLEL UTILIZING THE SAME CONTROL POINT.
3. WHEN THE CAPACITY OF THE LAG PUMP IS REDUCED TO 35% (ADJUSTABLE), THE DDC CONTROLLER SHALL STAGE BACK DOWN TO THE LEAD SECONDARY HEATING WATER PUMP IN REVERSE ORDER FROM THE STEPS NOTED ABOVE.
4. EACH PUMP SHALL OPERATE FOR A MINIMUM OF 10 CONSECUTIVE MINUTES (ADJUSTABLE) AND WHEN DISABLED, SHALL REMAIN OFF FOR A MINIMUM OF 5 CONSECUTIVE MINUTES (ADJUSTABLE) BEFORE RESTARTING TO PREVENT SHORT-CYCLING EXCEPT WHEN MANUALLY ENABLED/DISABLED OR BY THE OCCUPIED/UNOCCUPIED SYSTEM SCHEDULE.

THE TWO SECONDARY PUMPS SHALL CYCLE WEEKLY TO MAINTAIN SIMILAR RUNTIMES.

WELL LOOP OPERATION :
THE WELL LOOP PUMPS SHALL OPERATE WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE CONDENSER LOOP SUPPLY TEMPERATURE INCREASES ABOVE 85°F (ADJUSTABLE).
2. THE CONDENSER LOOP SUPPLY TEMPERATURE DECREASES BELOW 42°F (ADJUSTABLE).

WHEN THE ABOVE CONDITION EXISTS, THE WELL DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE LEAD WELL WATER PUMP.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
      1) IF THE LEAD PUMP FAILS TO START, THE STANDBY WELL WATER PUMP SHALL BE ENABLED. AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
      2) IF THE STANDBY PUMP FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE WELL LOOP PUMPS SHALL NOT OPERATE WHEN THE CONDENSER WATER LOOP SUPPLY TEMPERATURE IS BETWEEN 42°F AND 85°F (ADJUSTABLE).

BACKUP HEATING MODE OF OPERATION :
THE BACKUP HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE CONDENSER LOOP SUPPLY TEMPERATURE FALLS BELOW 42°F (ADJUSTABLE) FOR A PERIOD OF 5 MINUTES (ADJUSTABLE).

WHEN THE ABOVE CONDITION EXISTS, THE BOILER CONTROLLERS SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE LEAD BOILER (B-1) UNIT CONTROL PANEL (UCP).
   a. VALIDATE THE RUNNING STATUS OF THE BOILER THROUGH THE UNIT CONTROL PANEL (UCP).
      1) IF THE LEAD BOILER FAILS TO START, THE LAG BOILER (B-2) SHALL BE ENABLED.
      2) IF BOTH BOILERS FAIL TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. THE BOILER UNIT CONTROL PANEL (UCP) SHALL ENABLE AND MODULATE THE RESPECTIVE BOILER PUMP. THE BOILER UNIT CONTROL PANEL (UCP) SHALL VERIFY FLOW THROUGH A FLOW SWITCH.
3. WHEN A RUNNING STATUS FROM THE UNIT CONTROL PANEL (UCP) HAS BEEN CONFIRMED, THE BOILER SYSTEM SHALL CONTINUE TO OPERATE UNDER ITS OWN INTERNAL CONTROLS BY ENABLING AND MODULATING THE NECESSARY BOILERS. THE DIGITAL CONTROLLER SHALL SEND THE UNIT CONTROL PANEL (UCP) A CONDENSER WATER SUPPLY TEMPERATURE SETPOINT TO MAINTAIN.
4. THE BOILER MANUFACTURER SHALL PROVIDE A FIELD INSTALLED 2-WAY MOTORIZED CONTROL VALVE TO MODULATE OPEN AND CLOSED BASED ON THE BOILER SUPPLY AND RETURN WATER TEMPERATURES. THE CONTROL OF THE VALVE IS HANDLED THROUGH THE BOILER UNIT CONTROL PANEL (UCP).

THE LEAD BOILER SHALL CYCLE TO MAINTAIN SIMILAR RUNTIMES.

THE HEATING SYSTEM SHALL BE DISABLED WHEN THE FOLLOWING CONDITION EXISTS:

1. THE CONDENSER LOOP SUPPLY TEMPERATURE RISES ABOVE 42°F (ADJUSTABLE) FOR A PERIOD OF 15 MINUTES (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITIONS ARE MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE LEAD BOILER'S UNIT CONTROLLER.
   a. VALIDATE THE RUNNING STATUS OF THE BOILER THROUGH THE UNIT CONTROL PANEL (UCP).
      1) IF THE LEAD BOILER FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

WHEN THE HEATING WATER SYSTEM IS DISABLED, THE LEAD SECONDARY HEATING WATER PUMP SHALL CONTINUE TO OPERATE FOR A PERIOD OF 10 CONSECUTIVE MINUTES (ADJUSTABLE).

CONDENSER LOOP BYPASS CONTROL VALVE:
THE BYPASS CONTROL VALVE (BCV-2) SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE DIFFERENTIAL PRESSURE INCREASES TO THE MAXIMUM DIFFERENTIAL PRESSURE SETPOINT FOR A PERIOD OF 10 CONSECUTIVE MINUTES (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. MODULATE THE VALVE TO MAINTAIN THE MAXIMUM DIFFERENTIAL SETPOINT.

THE MAXIMUM DIFFERENTIAL PRESSURE SETPOINT SHALL BE SET AT 5 PSIG (ADJUSTABLE) ABOVE THE DIFFERENTIAL PRESSURE SETPOINT.

VFD POINTS LIST:
THE VFD CONTROL INTERFACE SHALL PROVIDE THE FOLLOWING BUT NOT LIMITED TO:
2. ENABLE/DISABLE
3. ALARMS
4. HERTZ
5. SPEED CONTROL

SAFETIES:
A DIFFERENTIAL PRESSURE SENSOR SHALL MONITOR THE PRESSURE ACROSS THE WELL SIDE OF THE HEAT EXCHANGER AND ALARM THE OPERATOR WORKSTATION IF THE PRESSURE DIFFERENCE IS GREATER THAN 8 PSI.

CONDENSER LOOP SEQUENCE OF OPERATION

NTS

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MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
|

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
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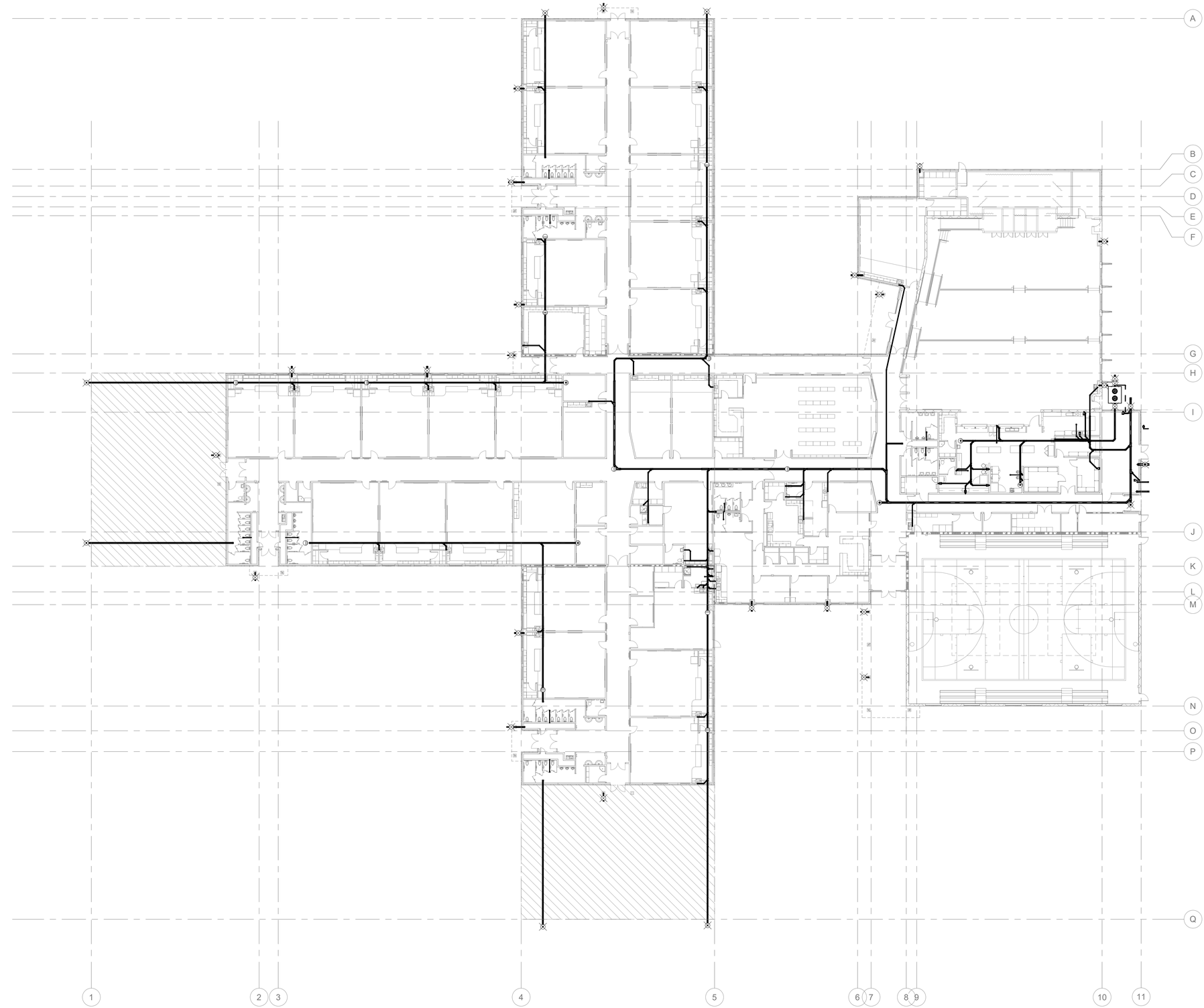
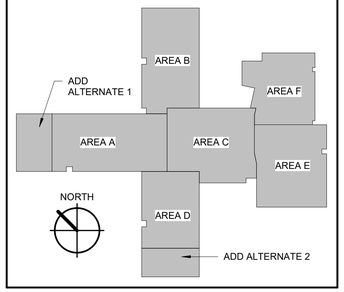
DRAWING NO.:
M8.5
MECHANICAL CONTROLS



1 FOUNDATION PLUMBING OVERALL PLAN
1" = 20'-0"

Keyed Plan



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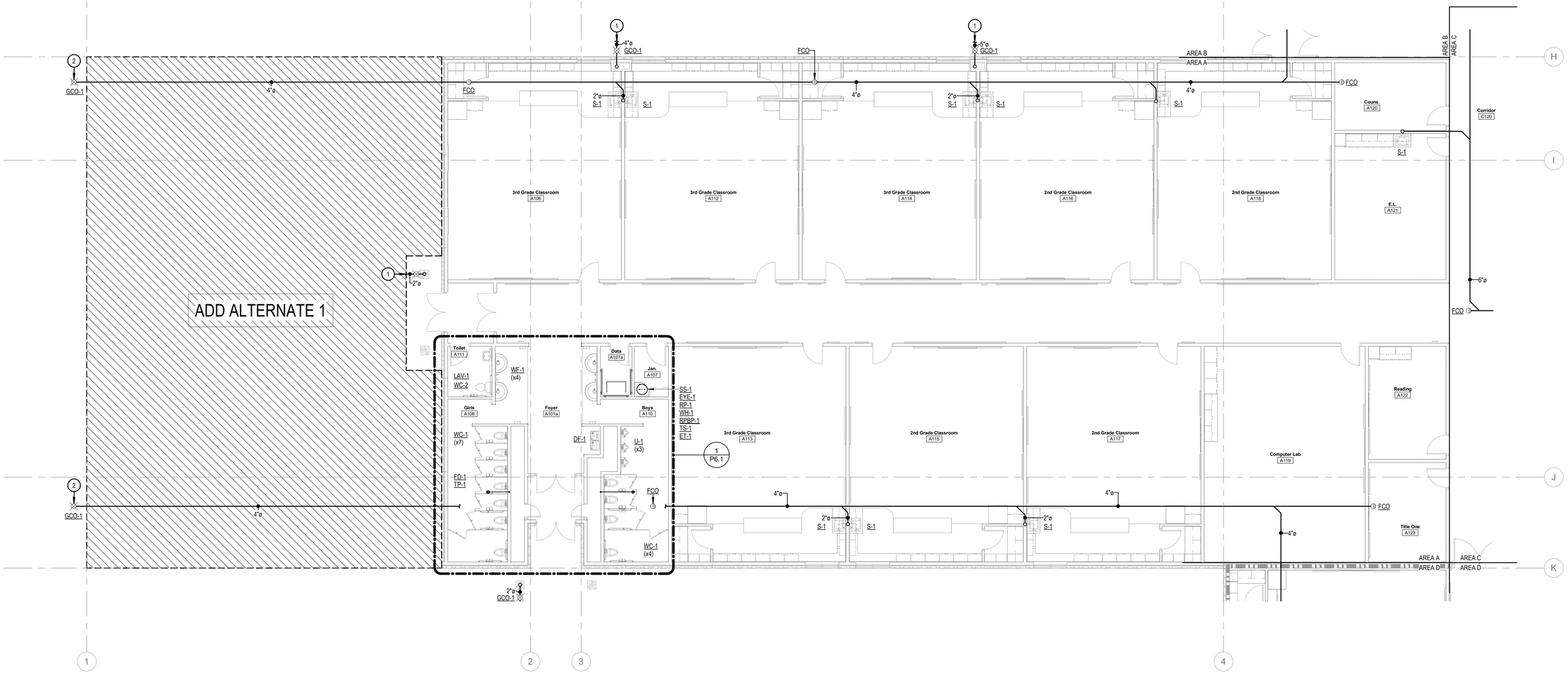
BID SET

DRAWING NO.:

P1.0
OVERALL FOUNDATION PLUMBING PLAN



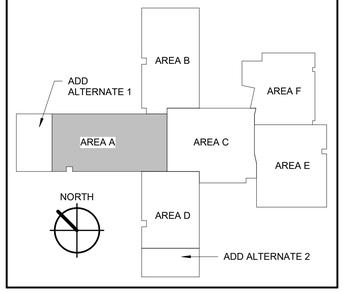
1 FOUNDATION PLUMBING FLOOR PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE CIVIL PLANS FOR CONTINUATION OF ROOF DRAIN.
2. THE WASTE LINE INVERT ELEVATION AT THIS LOCATION IS 63" BELOW FINISH FLOOR (BFF). THIS INVERT ELEVATION IS BASED ON A STARTING POINT OF 18" BFF WITH A LINE SLOPE OF 1/8" PER FOOT. THE INVERT IS SEE CIVIL SITE PLAN FOR CONTINUATION

Keyed Plan



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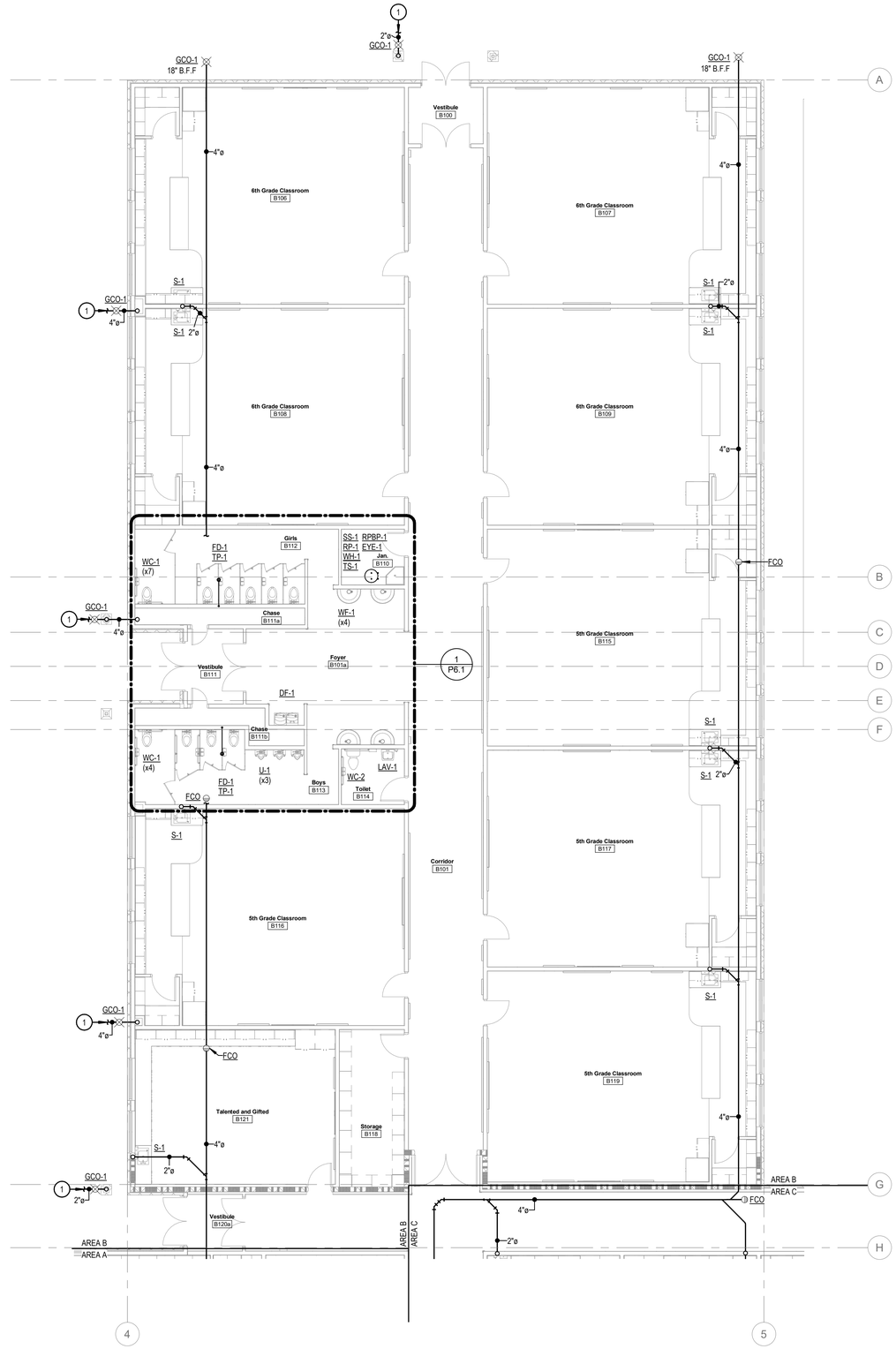
DRAWING NO.:

P1.1
FOUNDATION PLUMBING PLAN – AREA A

KEYED NOTES:

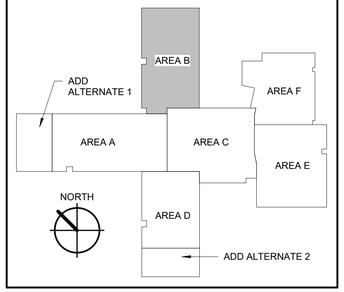
(#) SYMBOL USED FOR CALLOUT

1. SEE CIVIL PLANS FOR CONTINUATION OF ROOF DRAIN.



1 FOUNDATION PLUMBING FLOOR PLAN - AREA B
1/8" = 1'-0"

Keyed Plan



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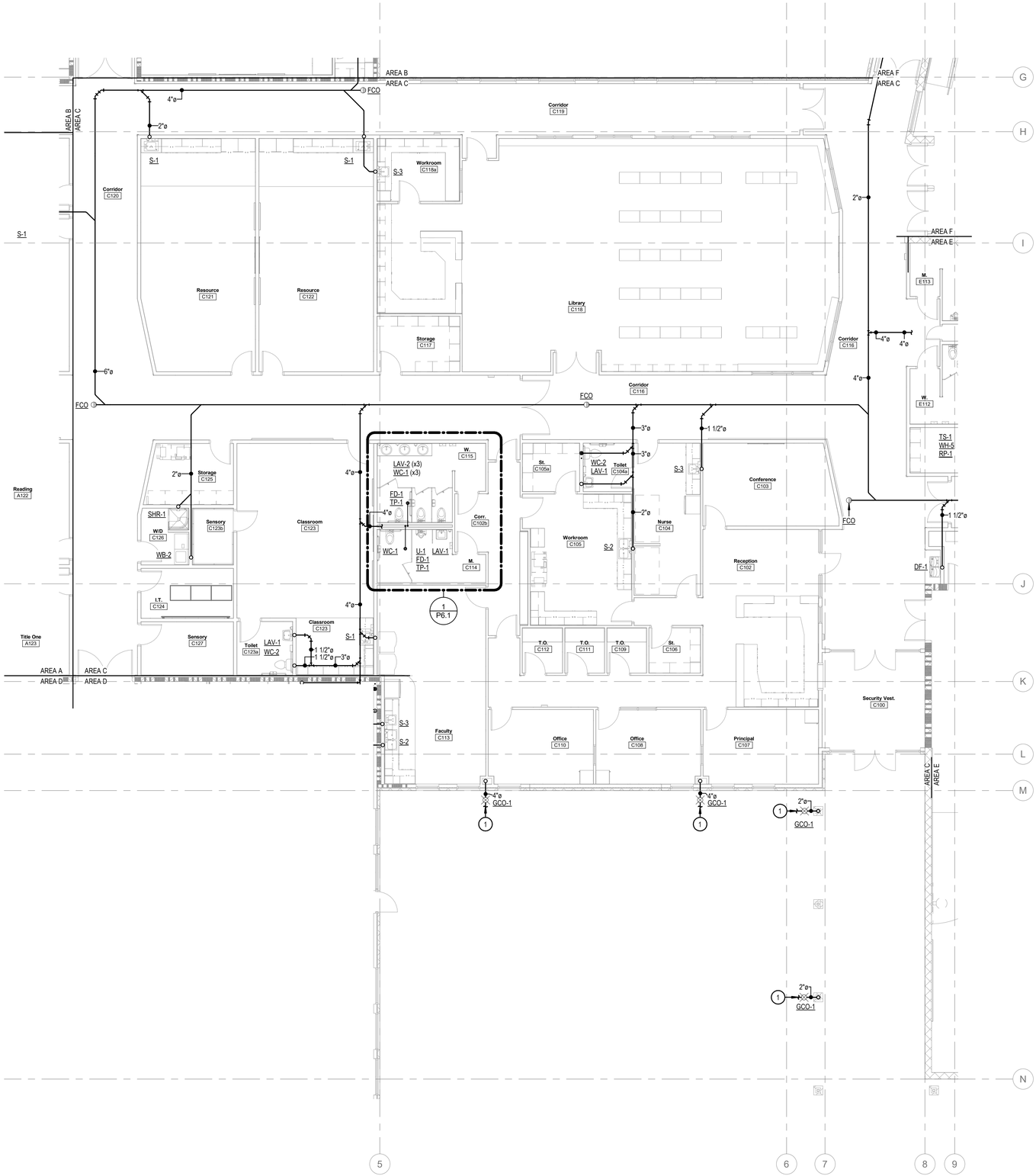
DRAWING NO.:

P1.2
FOUNDATION PLUMBING PLAN – AREA B

KEYED NOTES:

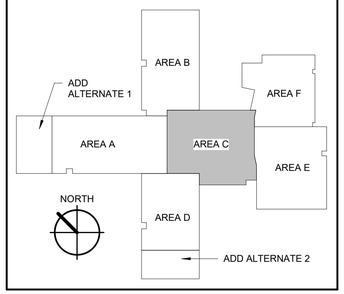
(#) SYMBOL USED FOR CALLOUT

1. SEE CIVIL PLANS FOR CONTINUATION OF ROOF DRAIN.



1 FOUNDATION PLUMBING FLOOR PLAN - AREA C
1/8" = 1'-0"

Keyed Plan



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DRAWN BY: Author
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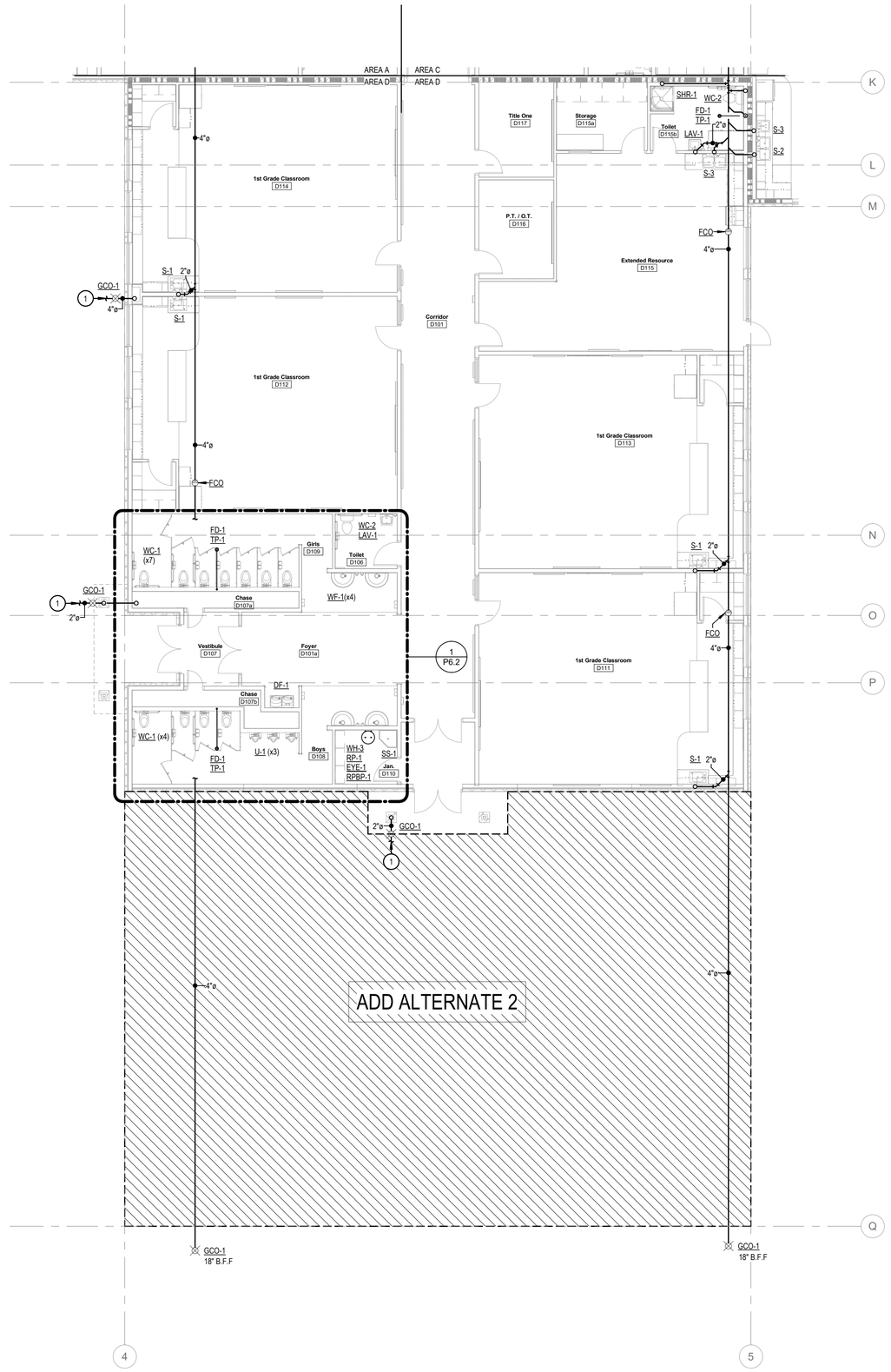
DRAWING NO.:

P1.3
FOUNDATION PLUMBING PLAN – AREA C

KEYED NOTES:

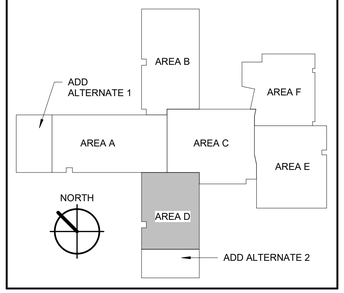
(#) SYMBOL USED FOR CALLOUT

1. SEE CIVIL PLANS FOR CONTINUATION OF ROOF DRAIN.



1 FOUNDATION PLUMBING FLOOR PLAN - AREA D
1/8" = 1'-0"

Keyed Plan



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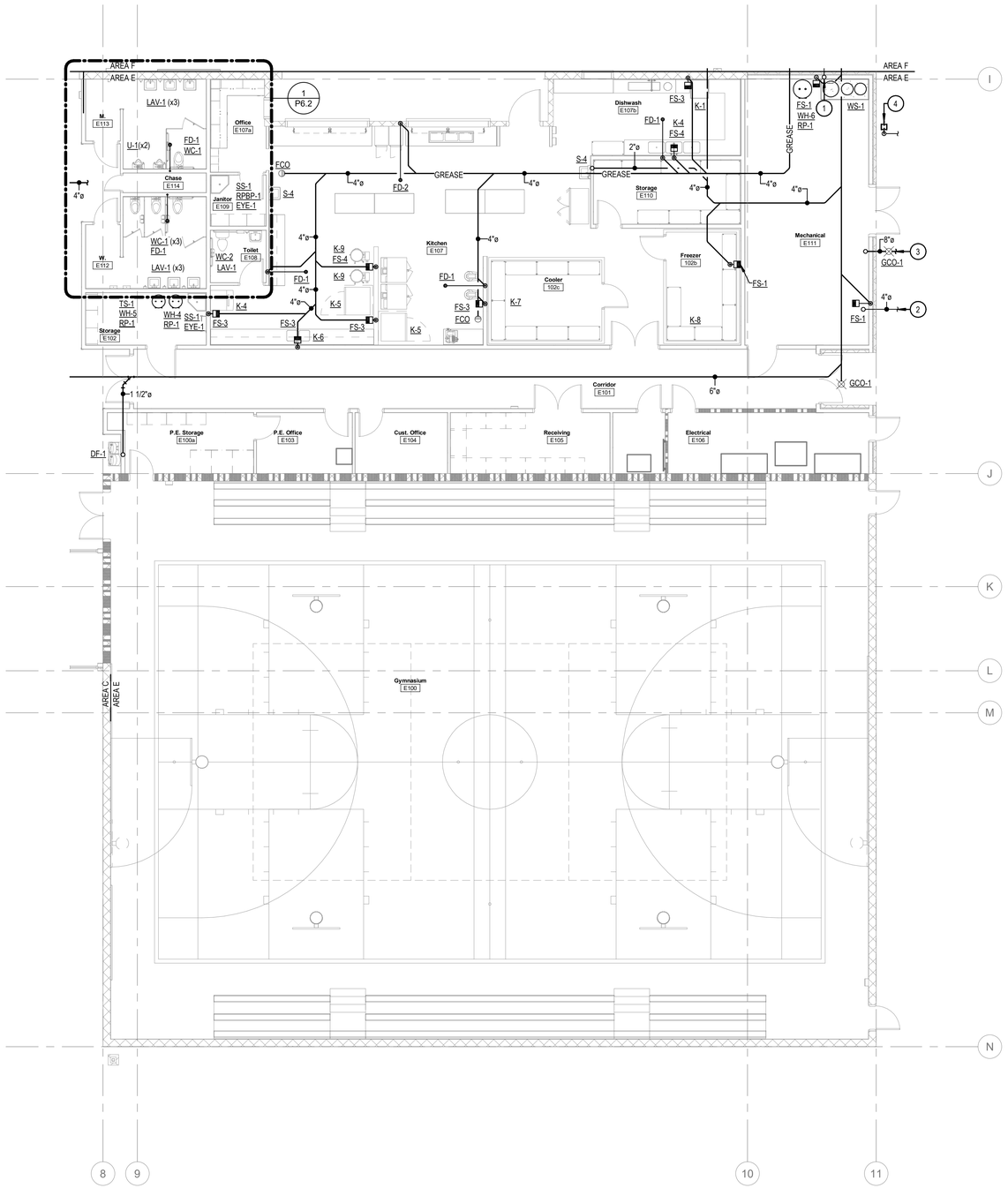
P1.4
FOUNDATION PLUMBING PLAN – AREA D



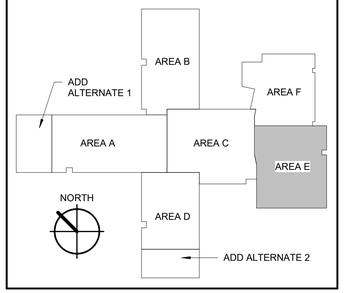
1 FOUNDATION PLUMBING FLOOR PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 3" GREASE VENT UP THROUGH WALL TO ROOF. STARTING POINT OF 18" BFF WITH A LINE SLOPE OF 1/4" PER FOOT. THE INVERT IS SEE CIVIL SITE PLAN FOR CONTINUATION
2. 4" CW OUT TO (2) NEW 2" METERS. SEE UTILITY PLAN FOR CONTINUATION.
3. SEE CIVIL PLANS FOR CONTINUATION OF RD.
4. SEE UTILITY PLANS FOR GAS CONNECTION.

Keyed Plan



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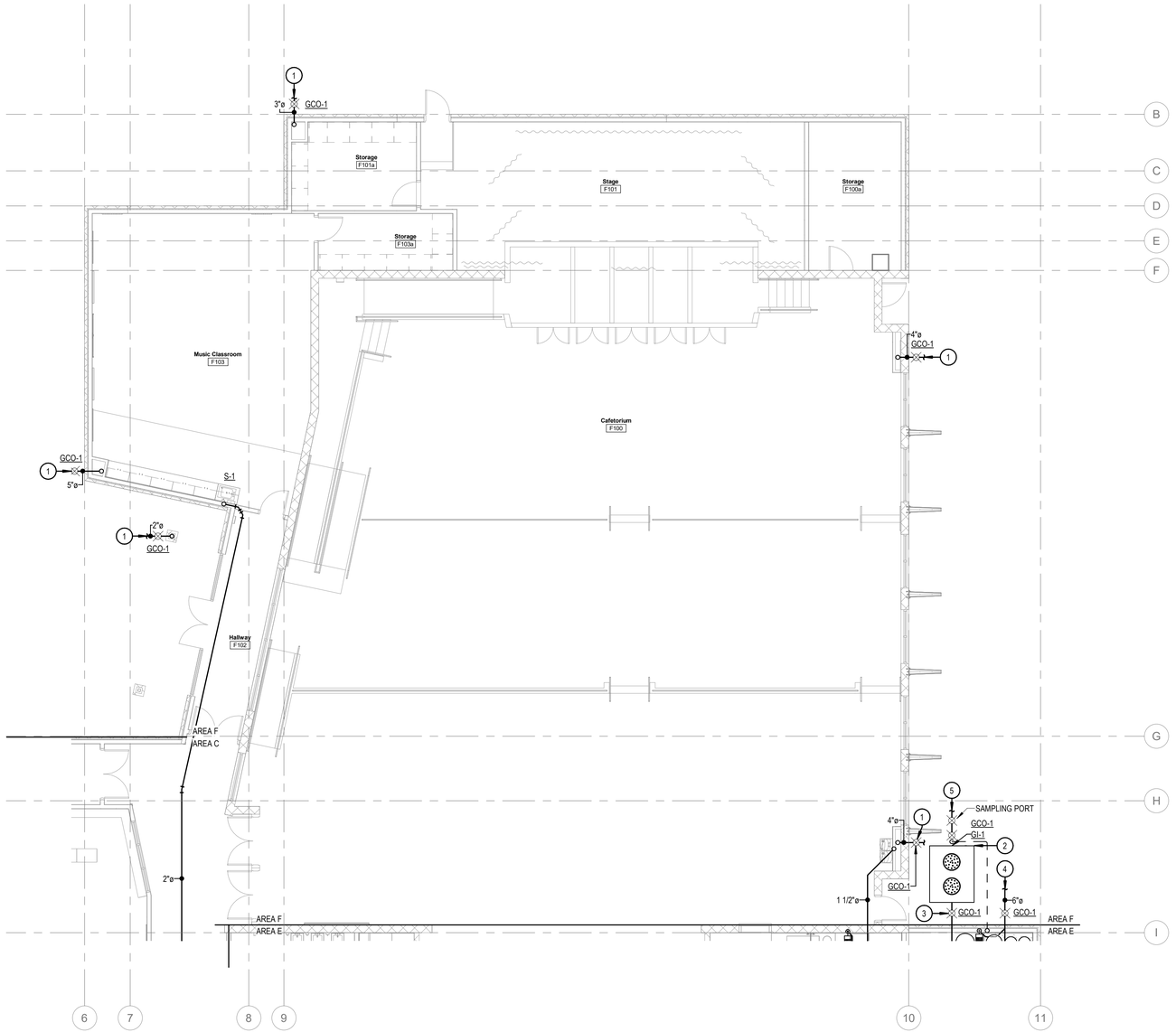
P1.5
FOUNDATION PLUMBING PLAN – AREA E



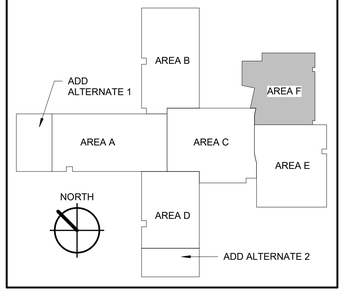
1 FOUNDATION PLUMBING FLOOR PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE CIVIL PLANS FOR CONTINUATION OF ROOF DRAIN.
2. SEE GREASE INTERCEPTOR DETAIL FOR MORE INFORMATION.
3. THE WASTE LINE INVERT ELEVATION AT THIS LOCATION IS 54" BELOW FINISH FLOOR (BFF). THIS INVERT ELEVATION IS BASED ON A STARTING POINT OF 24" BFF WITH A LINE SLOPE OF 1/4" PER FOOT. SEE CIVIL SITE PLAN FOR CONTINUATION.
4. THE WASTE LINE INVERT ELEVATION AT THIS LOCATION IS 81" BELOW FINISH FLOOR (BFF). THIS INVERT ELEVATION IS BASED ON A STARTING POINT OF 18" BFF WITH A LINE SLOPE OF 1/8" PER FOOT. THE INVERT IS SEE CIVIL SITE PLAN FOR CONTINUATION OF 6" WASTE LINE.
5. SEE CIVIL PLANS FOR CONTINUATION OF 4" GREASE WASTE LINE. STARTING POINT OF 18" BFF WITH A LINE SLOPE OF 1/4" PER FOOT. THE INVERT IS SEE CIVIL SITE PLAN FOR CONTINUATION

Keyed Plan



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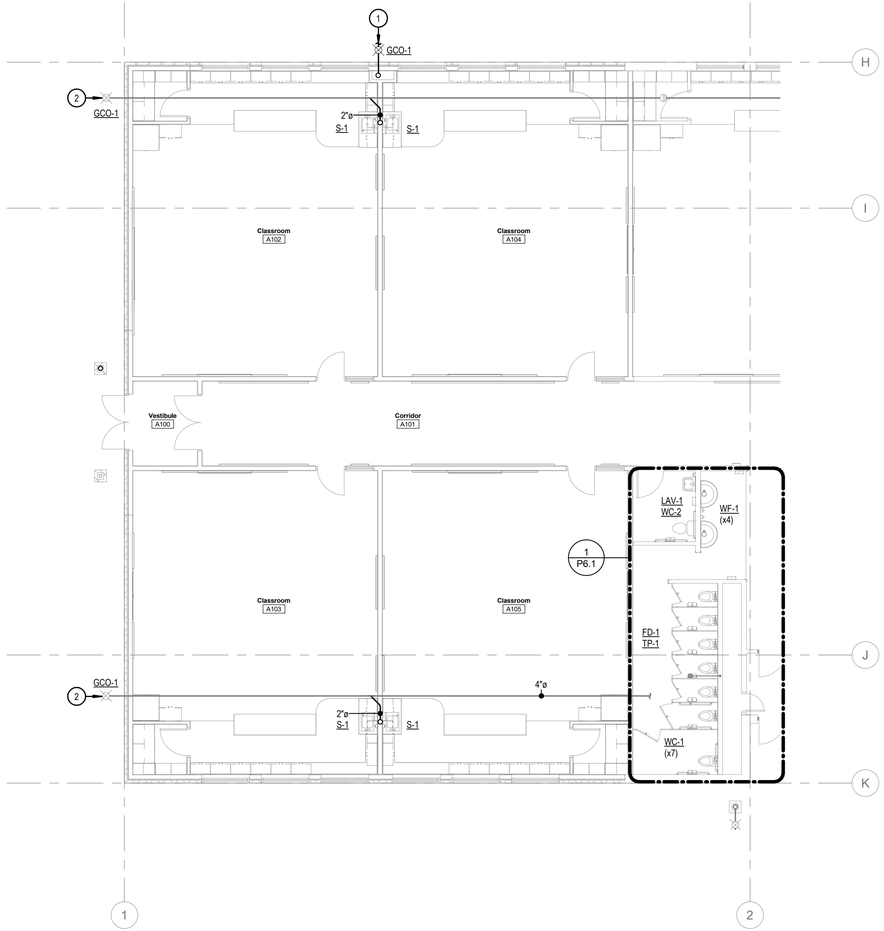
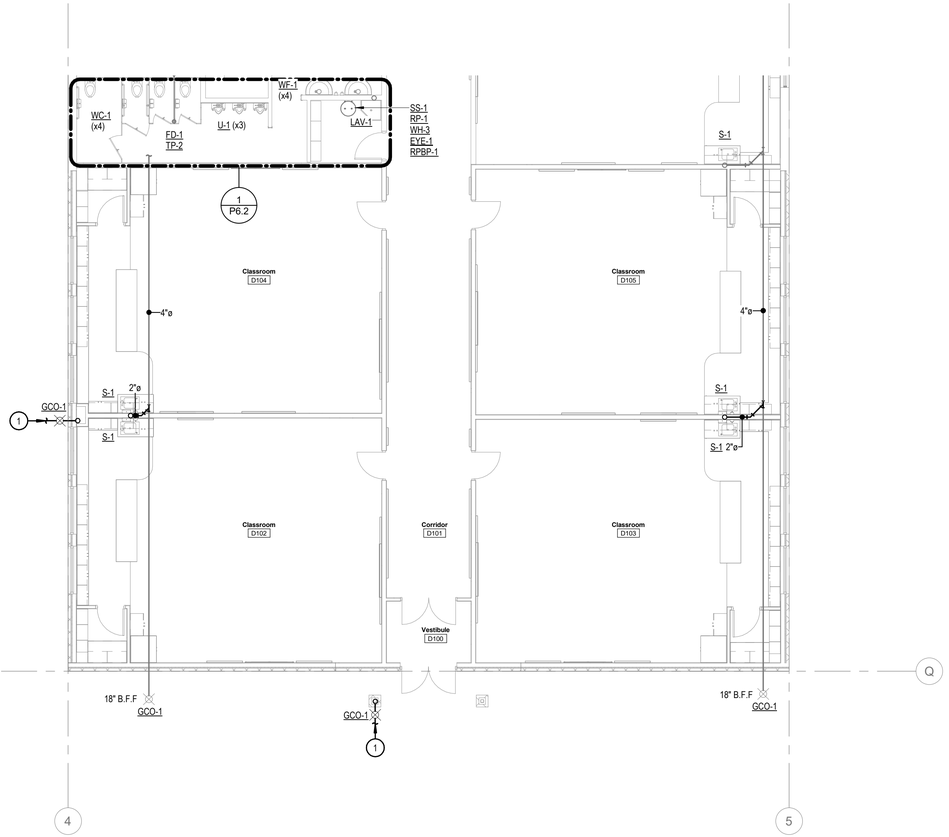
P1.6
FOUNDATION PLUMBING PLAN – AREA F



1 FOUNDATION PLUMBING FLOOR PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



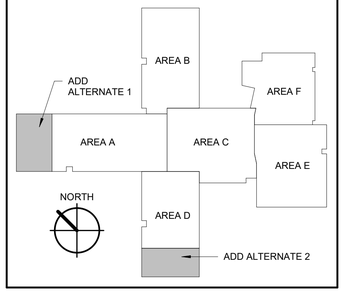
2 FOUNDATION PLUMBING FLOOR PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE CIVIL PLANS FOR CONTINUATION OF ROOF DRAIN.
2. THE WASTE LINE INVERT ELEVATION AT THIS LOCATION IS 63" BELOW FINISH FLOOR (BFF). THIS INVERT ELEVATION IS BASED ON A STARTING POINT OF 18" BFF WITH A LINE SLOPE OF 1/8" PER FOOT. THE INVERT IS SEE CIVIL SITE PLAN FOR CONTINUATION

Keyed Plan



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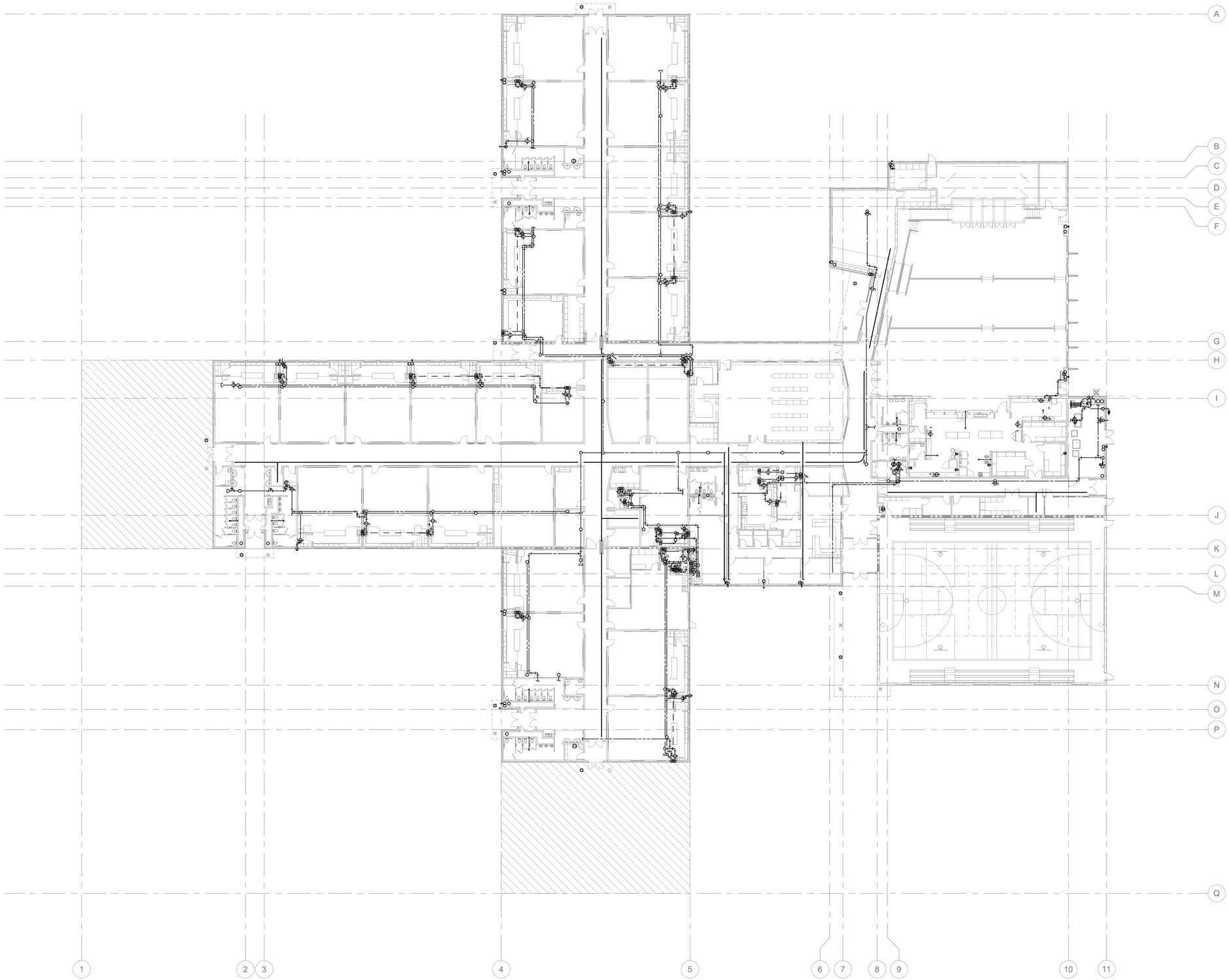
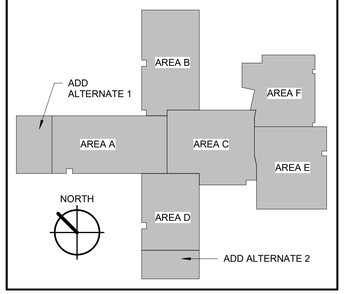
FOUNDATION PLUMBING PLAN – ADD ALTERNATE 1 & 2



1 PLUMBING OVERALL PLAN
1" = 20'-0"

Keyed Plan



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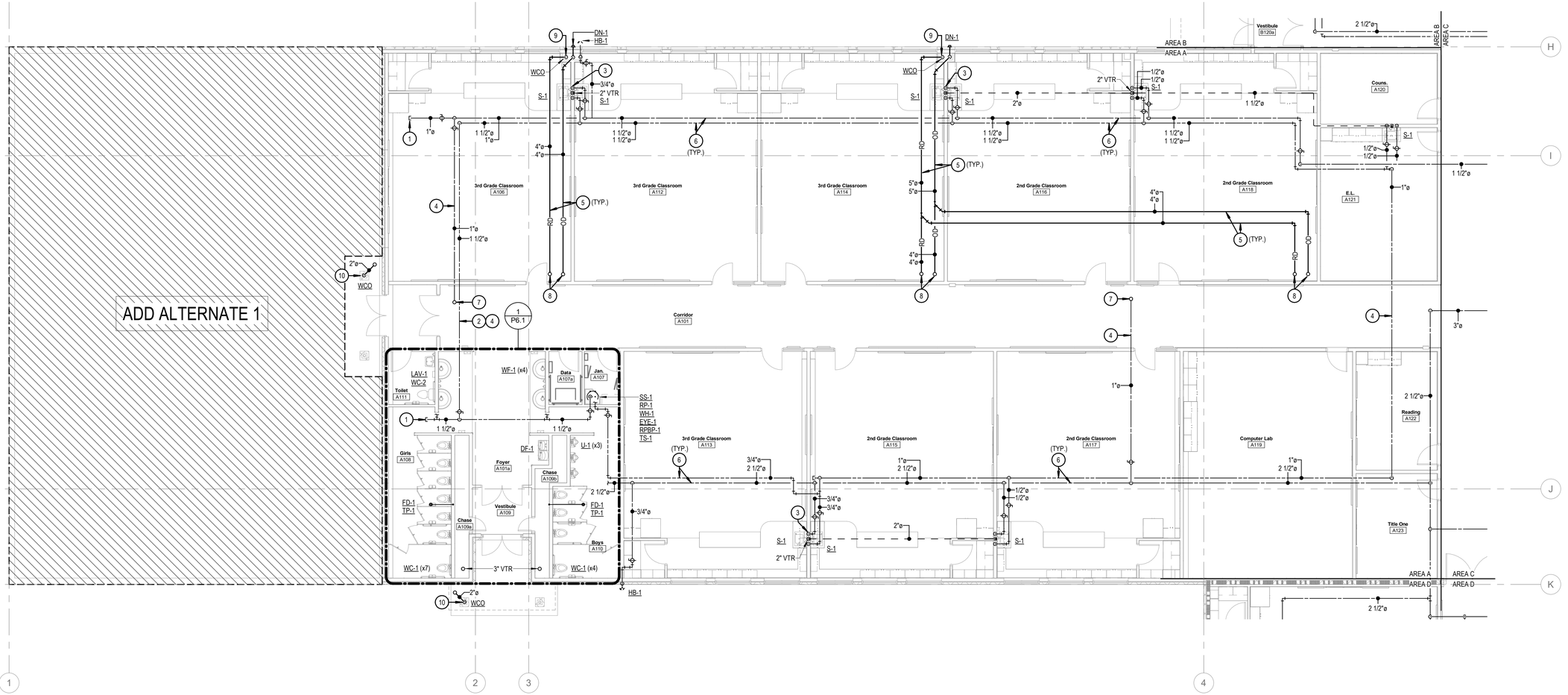
P2.0
OVERALL PLUMBING PLAN



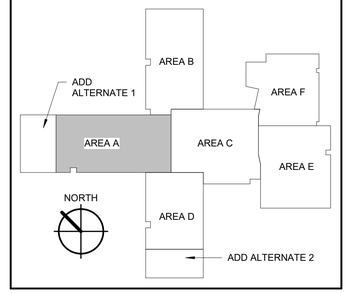
1 PLUMBING FLOOR PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. VALVE AND CAP FOR FUTURE EXPANSION.
2. 1-1/2" HW LINE PART OF BASE BID. REMOVE IF ALTERNATE 1 IS TAKEN.
3. ROUTE 3/4" CW & HW DROP TO BACK OF SINKS. ROUTE 1/2" CW & HW TO EACH SINK.
4. ROUTE PLUMBING LINE UP INTO JOIST SPACE TO AVOID OBSTRUCTIONS ABOVE HALLWAY CEILING.
5. ROUTE RD & OD PIPING ABOVE CEILING THROUGH JOIST WEBBING. (TYPICAL)
6. ROUTE PIPING ABOVE CEILING. (TYPICAL)
7. ROUTE 1" CW LINE UP TO ROOF HYDRANT. SEE SHEET P3.1 FOR CONTINUATION.
8. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.1 FOR CONTINUATION.
9. ROUTE RD DOWN IN WALL TO BELOW GRADE. SEE SHEET P1.1 FOR CONTINUATION.
10. ROUTE 2" RD DOWN INSIDE COLUMN. PROVIDE WITH WCO & GCO. ELECTRICAL TO PROVIDE HEAT TAPE ON VERTICAL PIPE.

Keyed Plan



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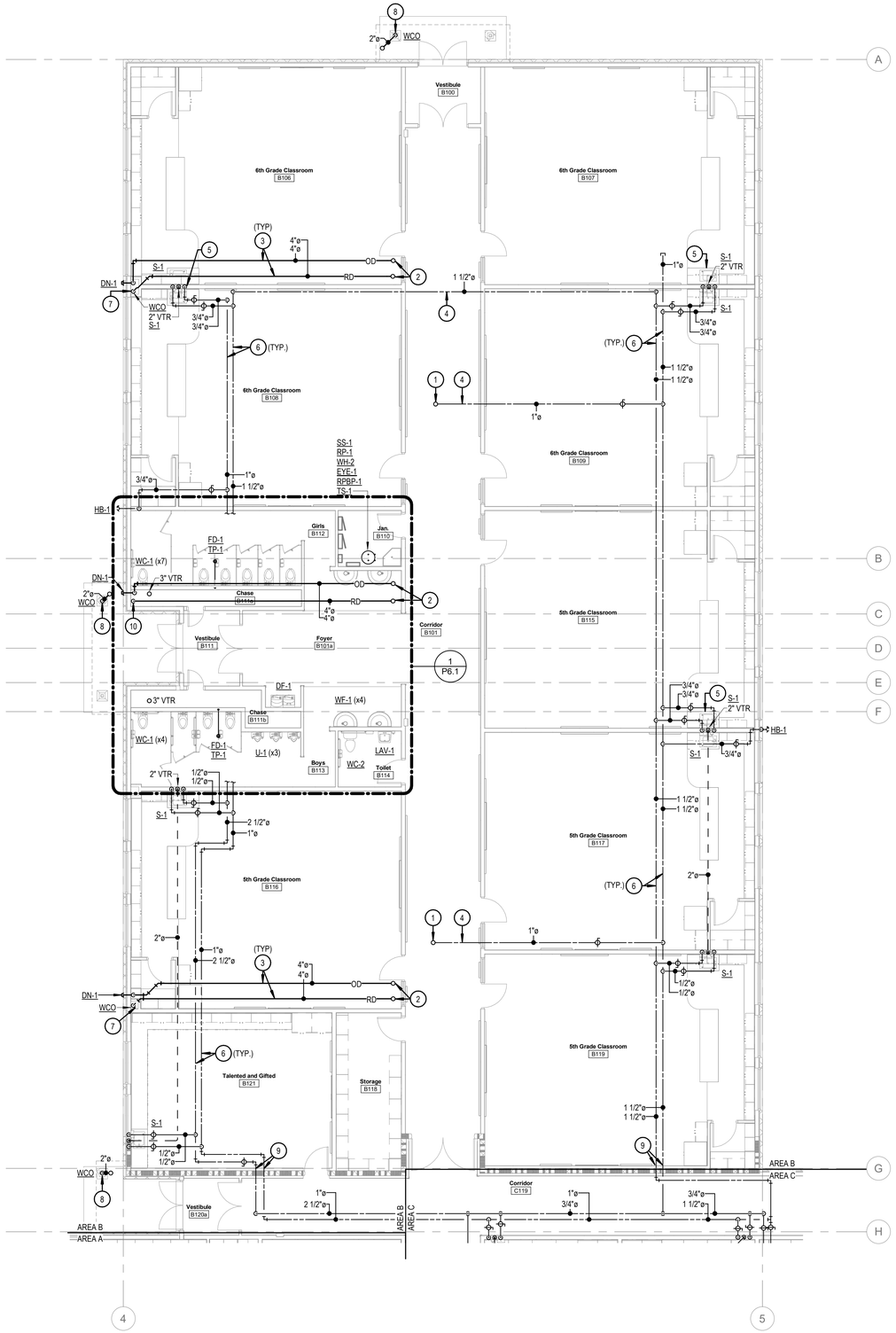
PLUMBING PLAN AREA A



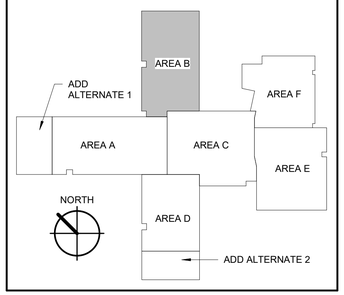
1 PLUMBING FLOOR PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 1" CW LINE UP TO ROOF HYDRANT. SEE SHEET P3.2 FOR CONTINUATION.
2. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.2 FOR CONTINUATION.
3. ROUTE RD & OD PIPING ABOVE CEILING THROUGH JOIST WEBBING. (TYPICAL)
4. ROUTE PLUMBING LINE UP INTO JOIST SPACE TO AVOID OBSTRUCTIONS ABOVE HALLWAY CEILING.
5. ROUTE 3/4" CW & HW DROP TO BACK OF SINKS. ROUTE 1/2" CW & HW TO EACH SINK.
6. ROUTE PIPING ABOVE CEILING. (TYPICAL)
7. ROUTE RD DOWN IN WALL TO BELOW GRADE. SEE SHEET P1.2 FOR CONTINUATION.
8. ROUTE 2" RD DOWN INSIDE COLUMN. PROVIDE WITH WCO & GCO. ELECTRICAL TO PROVIDE HEAT TAPE ON VERTICAL PIPE.
9. FIRE CAULK PIPING PENETRATION THROUGH FIRE WALL.
10. ROUTE 4" RD DOWN IN WALL TO BELOW GRADE. SEE SHEET P1.2 FOR CONTINUATION. PROVIDE CLEANOUT BEFORE PIPE PENETRATES FLOOR.

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
project number: **21-422**

Revisions

#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

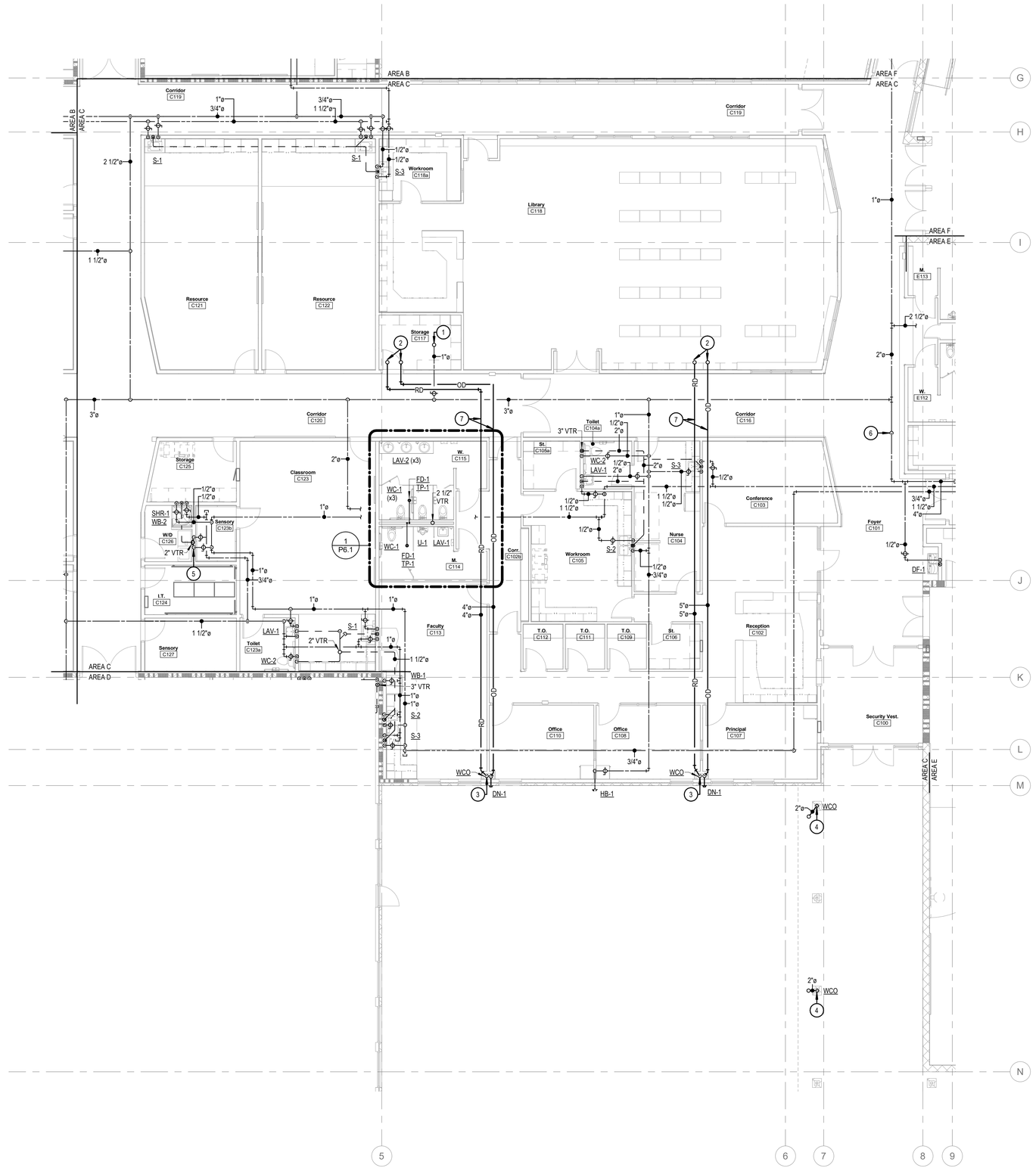
DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

P2.2

PLUMBING PLAN AREA B



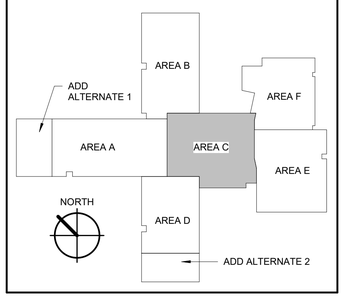
1 PLUMBING FLOOR PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 1" CW LINE UP TO ROOF HYDRANT. SEE SHEET P3.3 FOR CONTINUATION.
2. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.3 FOR CONTINUATION.
3. ROUTE RD DOWN IN WALL TO BELOW GRADE. SEE SHEET P1.3 FOR CONTINUATION.
4. ROUTE 2" RD DOWN INSIDE COLUMN. PROVIDE WITH WCO & GCO. ELECTRICAL TO PROVIDE HEAT TAPE ON VERTICAL PIPE.
5. ROUTE 1/2" CW & HW DOWN WALL TO WB-2. SEE WASHING MACHINE HOOK-UP DETAIL #4 ON SHEET P5.2.
6. ROUTE 4" CW LINE DOWN FROM FOYER C101 CEILING.
7. ROUTE RD & OD PIPING ABOVE CEILING THROUGH JOIST WEBBING. (TYPICAL)

Keyed Plan



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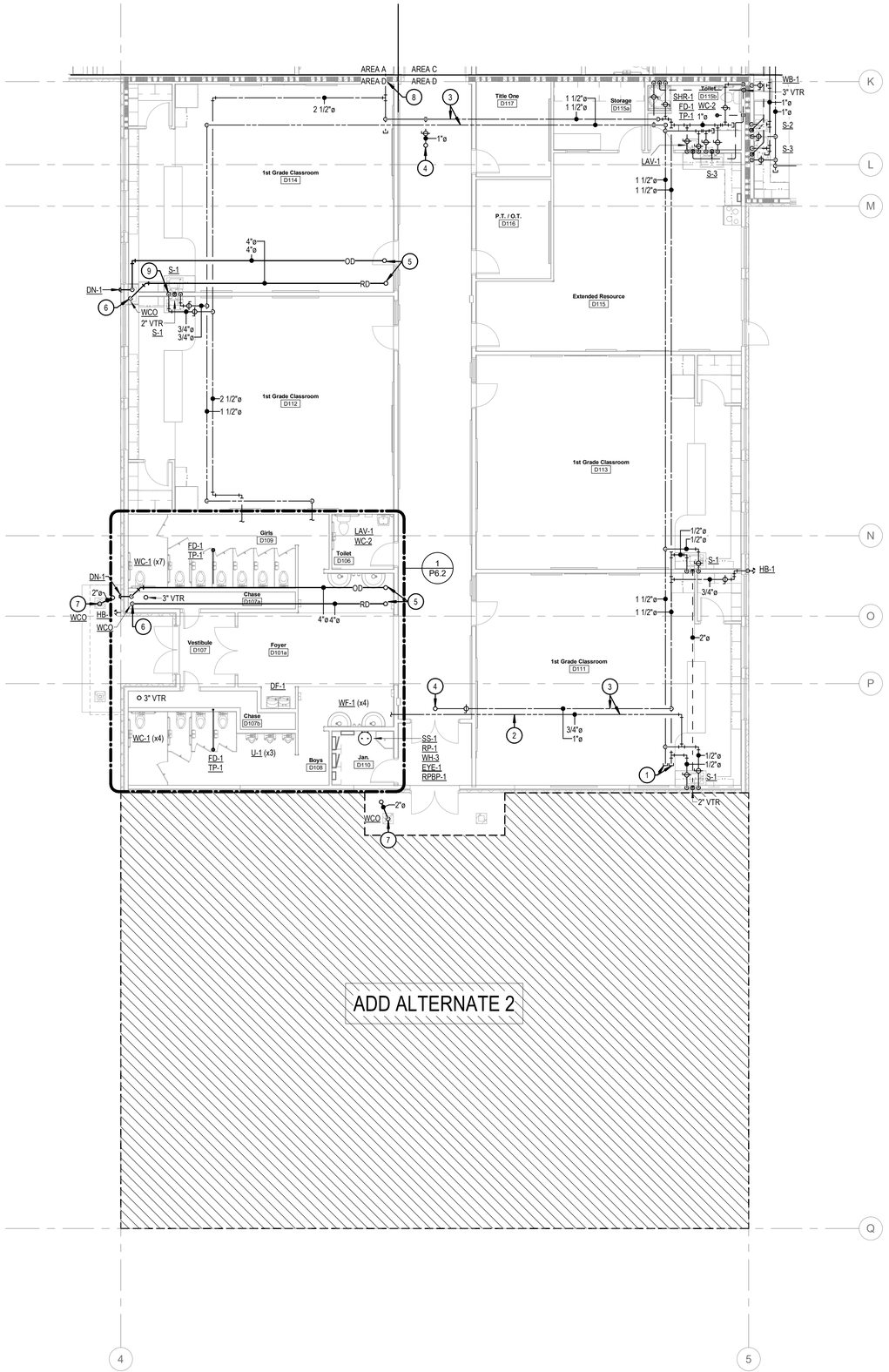
P2.3
PLUMBING PLAN AREA C



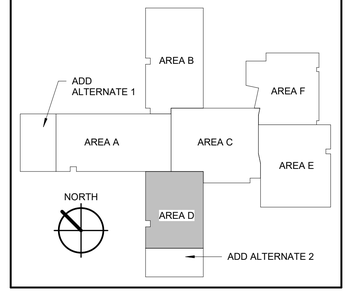
1 PLUMBING FLOOR PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. VALVE AND CAP FOR FUTURE EXPANSION.
2. 1-1/2" HWR LINE PART OF BASE BID. REMOVE IF ALTERNATE 2 IS TAKEN.
3. ROUTE PLUMBING LINE UP INTO JOIST SPACE TO AVOID OBSTRUCTIONS
4. ROUTE 1" CW LINE UP TO ROOF HYDRANT. SEE SHEET P3.4 FOR CONTINUATION.
5. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.4 FOR CONTINUATION.
6. ROUTE RD DOWN IN WALL TO BELOW GRADE. SEE SHEET P1.4 FOR CONTINUATION.
7. ROUTE 2" ROOF DRAIN DOWN INSIDE COLUMN. PROVIDE WITH WCO & GCO. ELECTRICAL TO PROVIDE HEAT TAPE ON VERTICAL PIPE.
8. FIRE CAULK PIPING PENETRATION THROUGH FIRE WALL.
9. ROUTE 3/4" CW & HW DROP TO BACK OF SINKS. ROUTE 1/2" CW & HW TO EACH SINK.

Keyed Plan



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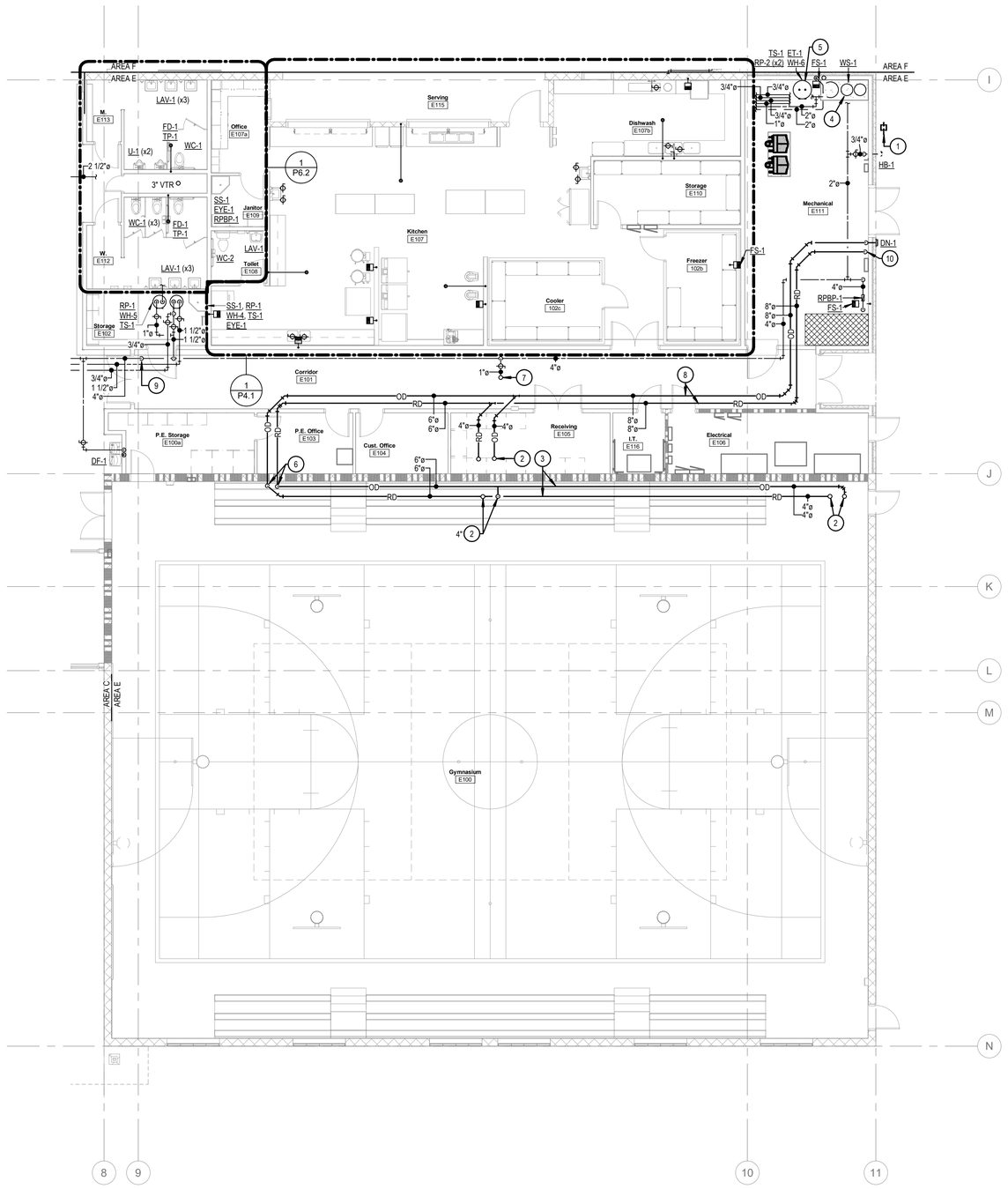
P2.4
PLUMBING PLAN AREA D



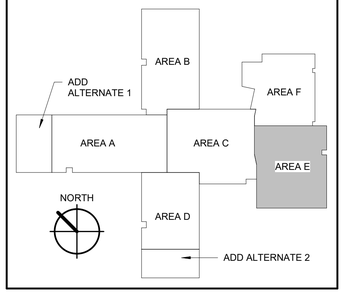
1 PLUMBING FLOOR PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. GAS SERVICE AND GAS METER FURNISHED AND INSTALLED BY INTERMOUNTAIN GAS COMPANY. CONNECT 1-1/2" MPG LINE TO METER. PROVIDE A PIPE SLEEVE AND SEALANT AROUND GAS PIPE PENETRATION THROUGH EXTERIOR WALL. PAINT ALL GAS PIPING OUTSIDE THE BUILDING TO MATCH WALL
2. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.5 FOR CONTINUATION.
3. ROUTE 4" RD AND OD LINES TIGHT TO ROOF ABOVE DUCTWORK AND THROUGH JOIST WEBBING AS REQUIRED.
4. SEE WATER SOFTENER PIPING DETAIL #2 ON SHEET P5.2.
5. SEE WATER HEATER DETAIL #1 ON P5.3. STARTING POINT OF 18" BFF WITH A LINE SLOPE OF 1/4" PER FOOT. THE INVERT IS SEE CIVIL SITE PLAN FOR CONTINUATION
6. ROUTE 6" RD AND OD DOWN WALL AND PENETRATE INTO JOIST SPACE OF CEILING IN PE OFFICE E103..
7. ROUTE 1" CW LINE UP TO ROOF HYDRANT. SEE SHEET P3.5 FOR CONTINUATION.
8. ROUTE 8" RD AND OD THROUGH JOIST WEBBING.
9. ROUTE 4" CW LINE UP INTO CEILING ON FOYER C101.
10. ROUTE RD DOWN INSIDE SPACE TO BELOW GRADE. SEE SHEET P1.5 FOR CONTINUATION. PROVIDE CLEANOUT BEFORE FLOOR PENETRATION.

Keyed Plan



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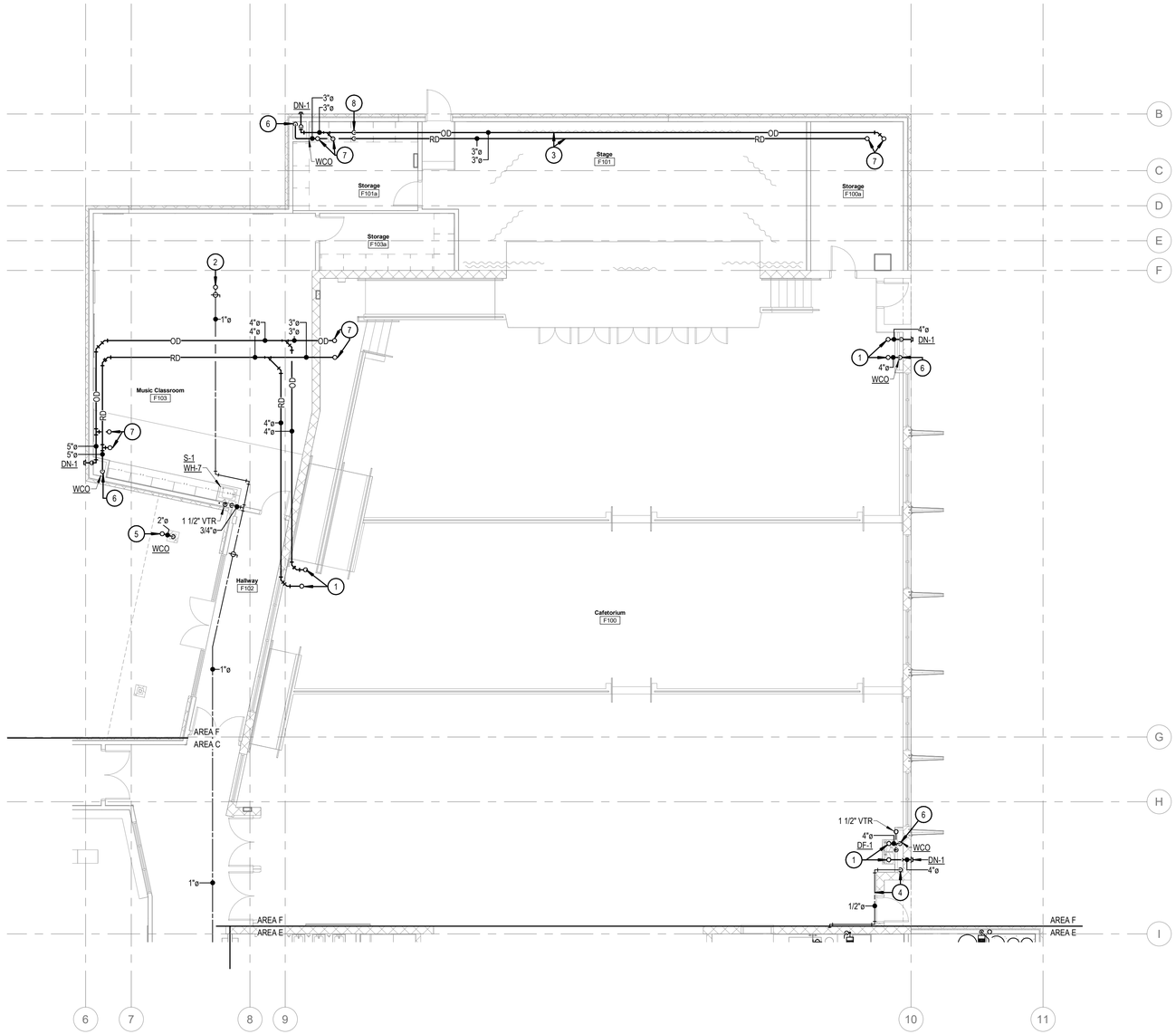
P2.5
PLUMBING PLAN AREA E



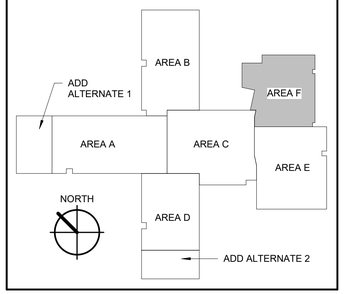
1 PLUMBING FLOOR PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.6 FOR CONTINUATION.
2. ROUTE 1" CW LINE UP TO ROOF HYDRANT. SEE SHEET P3.6 FOR CONTINUATION.
3. ROUTE RD & OD PIPING THROUGH JOIST WEBBING AT 1/8" PER FOOT SLOPE.
4. ROUTE 1/2" CW EXPOSED ON WALL AND DOWN WALL TO DF-1.
5. ROUTE 2" RD FROM ROOF ABOVE THROUGH COLUMN BELOW GRADE. PROVIDE WALL AND GRADE CLEANOUT. ELECTRICAL TO PROVIDE HEAT TAPE ON VERTICAL PIPE.
6. ROUTE RD DOWN IN WALL TO BELOW GRADE. SEE SHEET P1.6 FOR CONTINUATION.
7. 3" RD & OD LINES FROM ABOVE. SEE SHEET P3.6 FOR CONTINUATION.
8. ROUTE RD & OD PIPE BELOW CEILING JOISTS.

Keyed Plan



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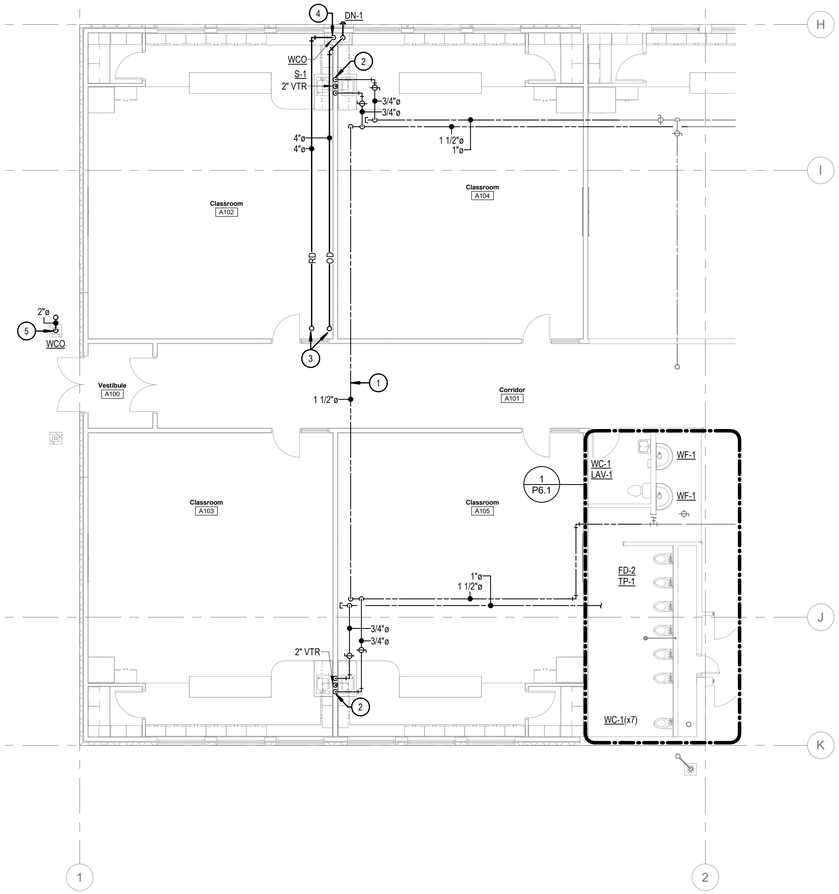
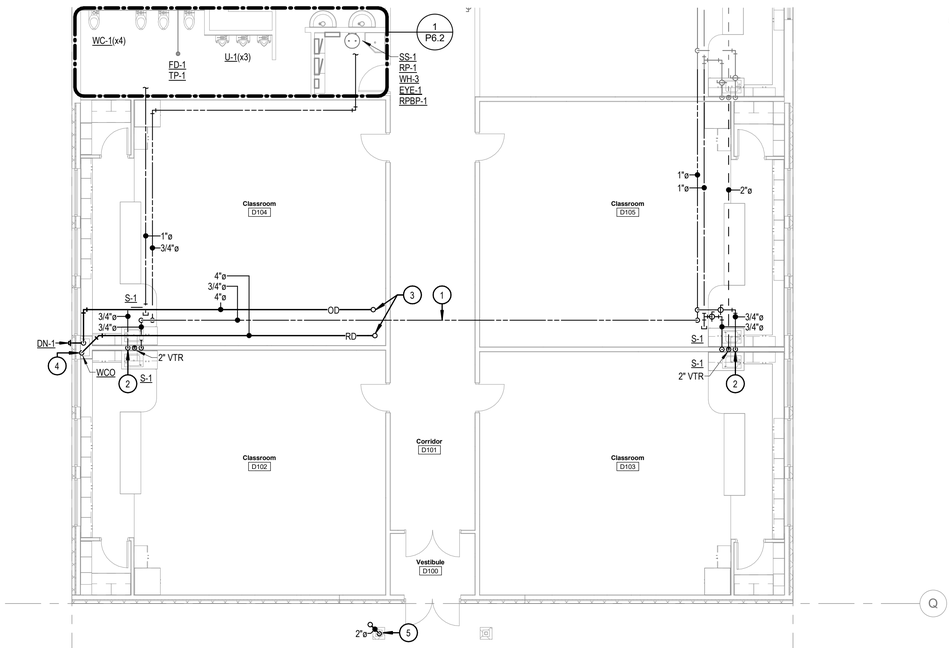
P2.6
PLUMBING PLAN AREA F



1 PLUMBING FLOOR PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



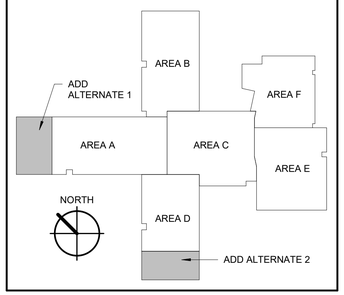
2 PLUMBING FLOOR PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE HW LINE UP INTO JOIST SPACE TO AVOID OBSTRUCTIONS ABOVE HALLWAY CEILING.
2. ROUTE 3/4" CW & HW DROP TO BACK OF SINKS. ROUTE 1/2" CW & HW TO EACH SINK.
3. 4" RD & OD LINES FROM ABOVE. SEE SHEET P3.7 FOR CONTINUATION.
4. ROUTE RD DOWN IN WALL TO BELOW GRADE. SEE P1.7 FOR CONTINUATION.
5. ROUTE 2" RD DOWN INSIDE COLUMN. PROVIDE WITH WCO & GCO. ELECTRICAL TO PROVIDE HEAT TAPE ON VERTICAL PIPE.

Keyed Plan



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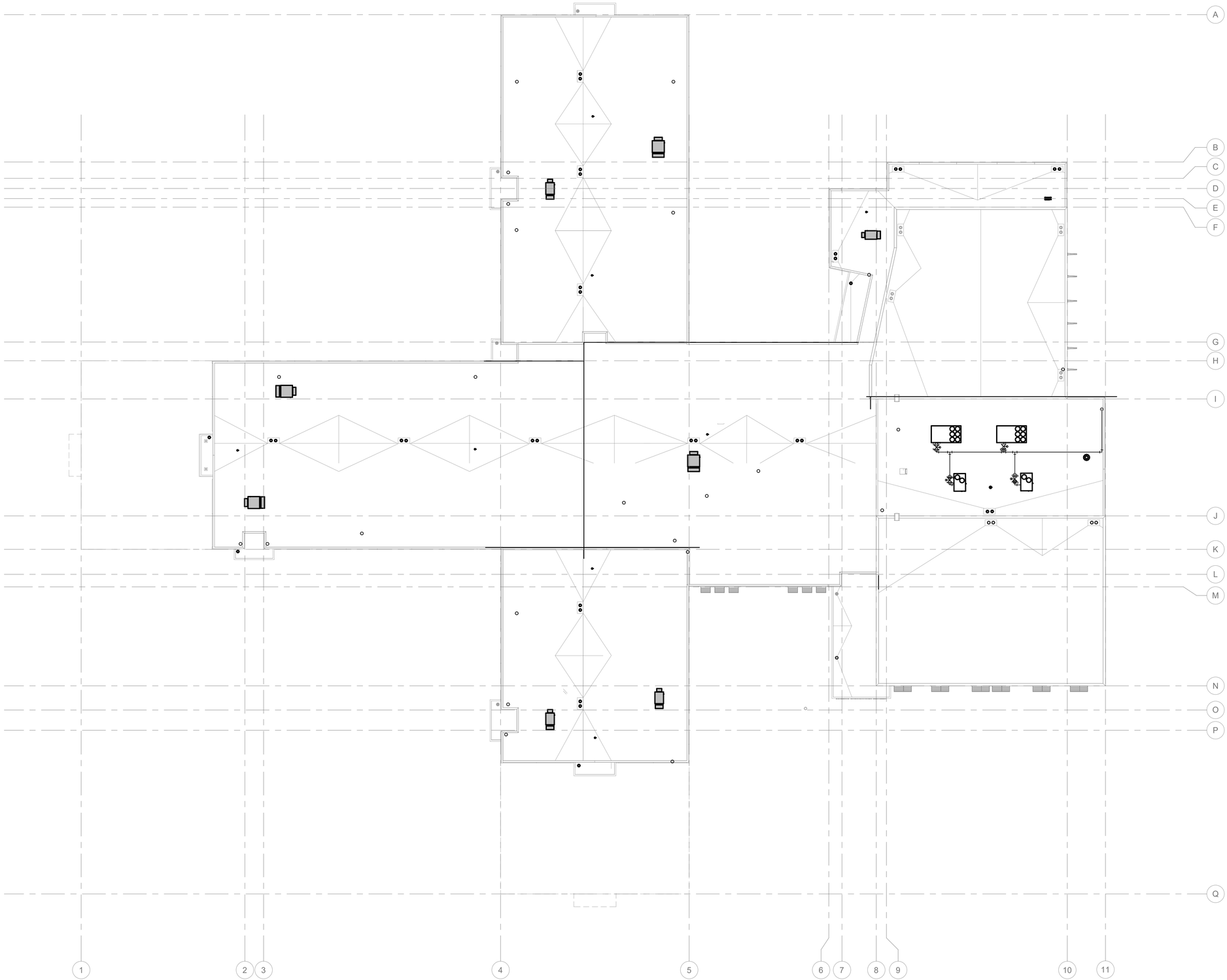
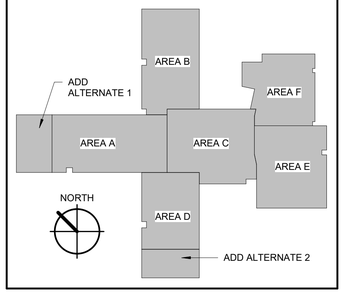
DRAWING NO.:

P2.7
PLUMBING PLAN – ADD ALTERNATE 1 & 2



1 PLUMBING OVERALL ROOF PLAN
1" = 20'-0"

Keyed Plan



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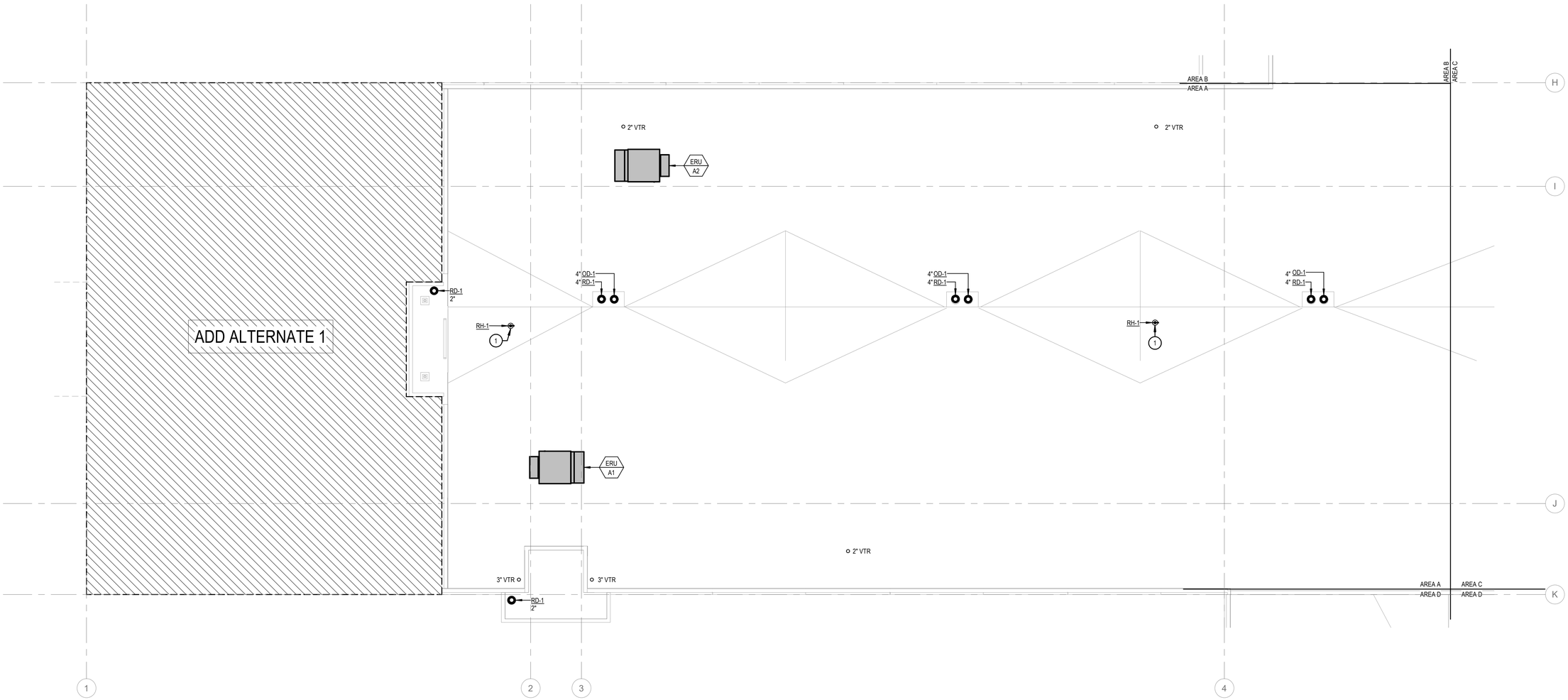
DRAWING NO.:

P3.0
PLUMBING OVERALL ROOF PLAN



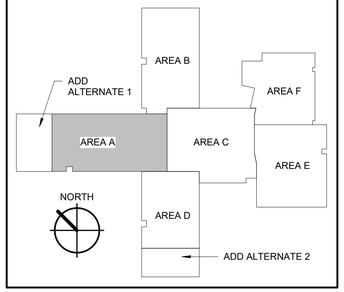
1 PLUMBING ROOF PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 1" CW LINE FROM CEILING BELOW TO RH-1. LOCATE BALL VALVE IN CEILING SPACE BELOW.

Keyed Plan



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BID SET

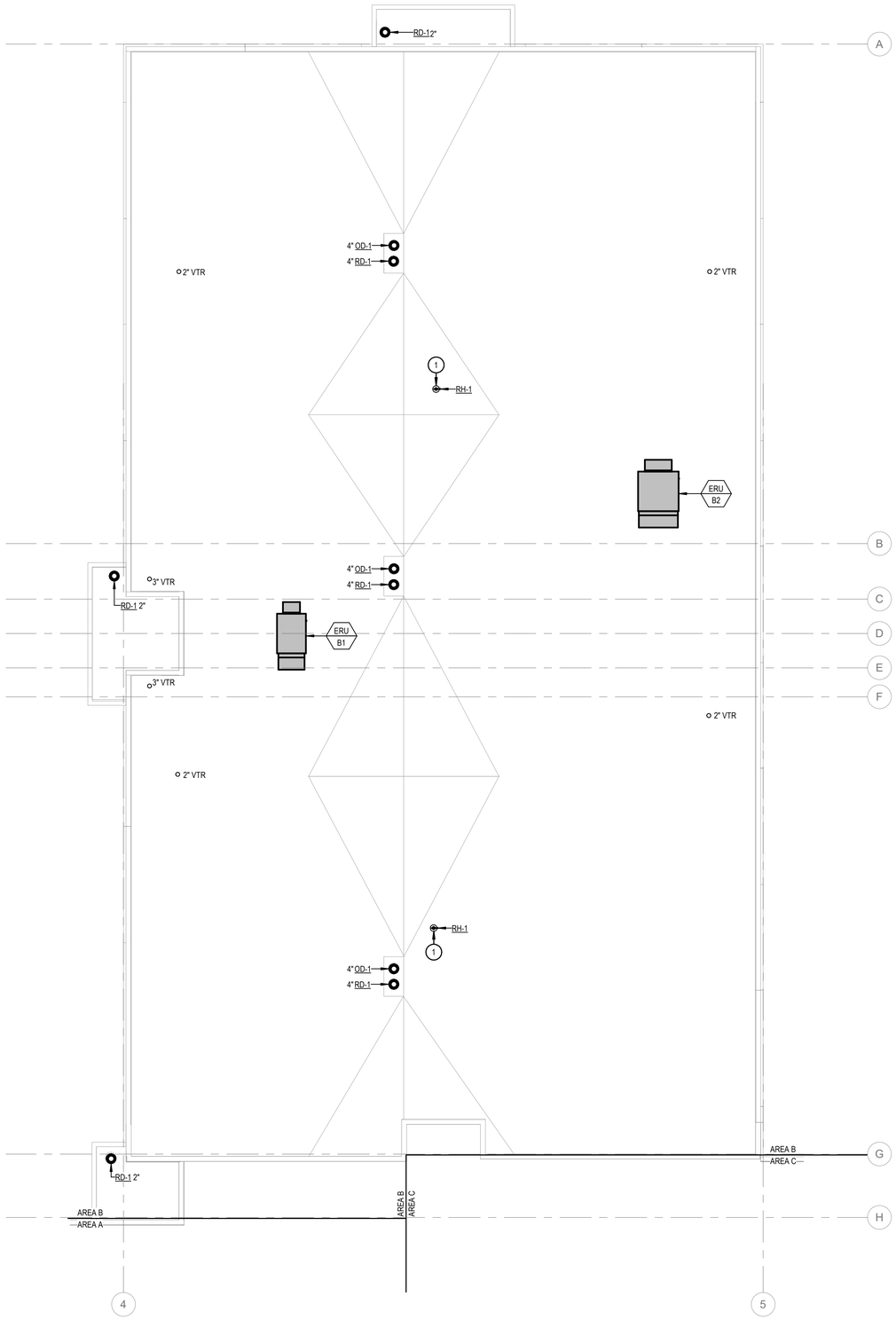
DRAWING NO.:

P3.1
PLUMBING ROOF PLAN – AREA A

KEYED NOTES:

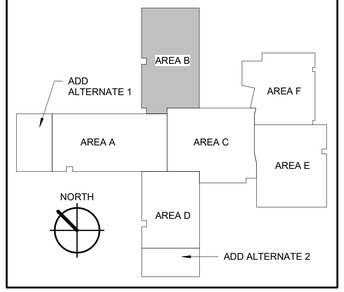
(#) SYMBOL USED FOR CALLOUT

1. ROUTE 1" CW LINE FROM CEILING BELOW TO RH-1. LOCATE BALL VALVE IN CEILING SPACE BELOW.



1 PLUMBING ROOF PLAN - AREA B
1/8" = 1'-0"

Keyed Plan



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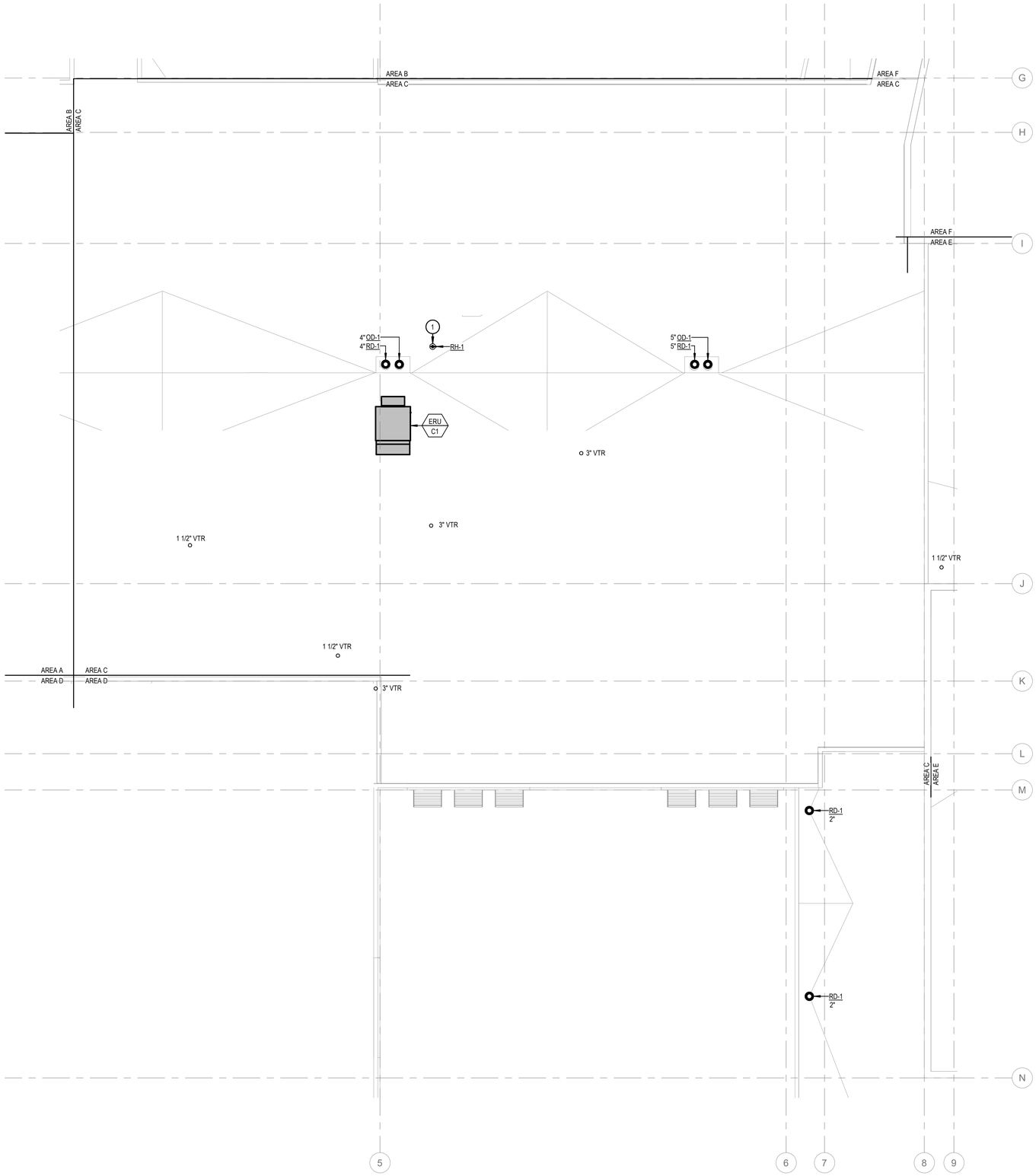
P3.2
PLUMBING ROOF PLAN – AREA B



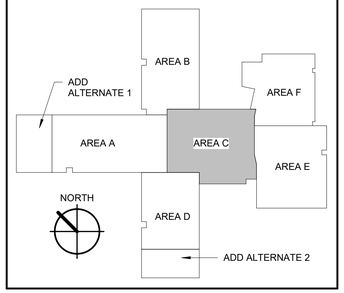
1 PLUMBING ROOF PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 1" CW LINE FROM CEILING BELOW TO RH-1. LOCATE BALL VALVE IN CEILING SPACE BELOW.

Keyed Plan



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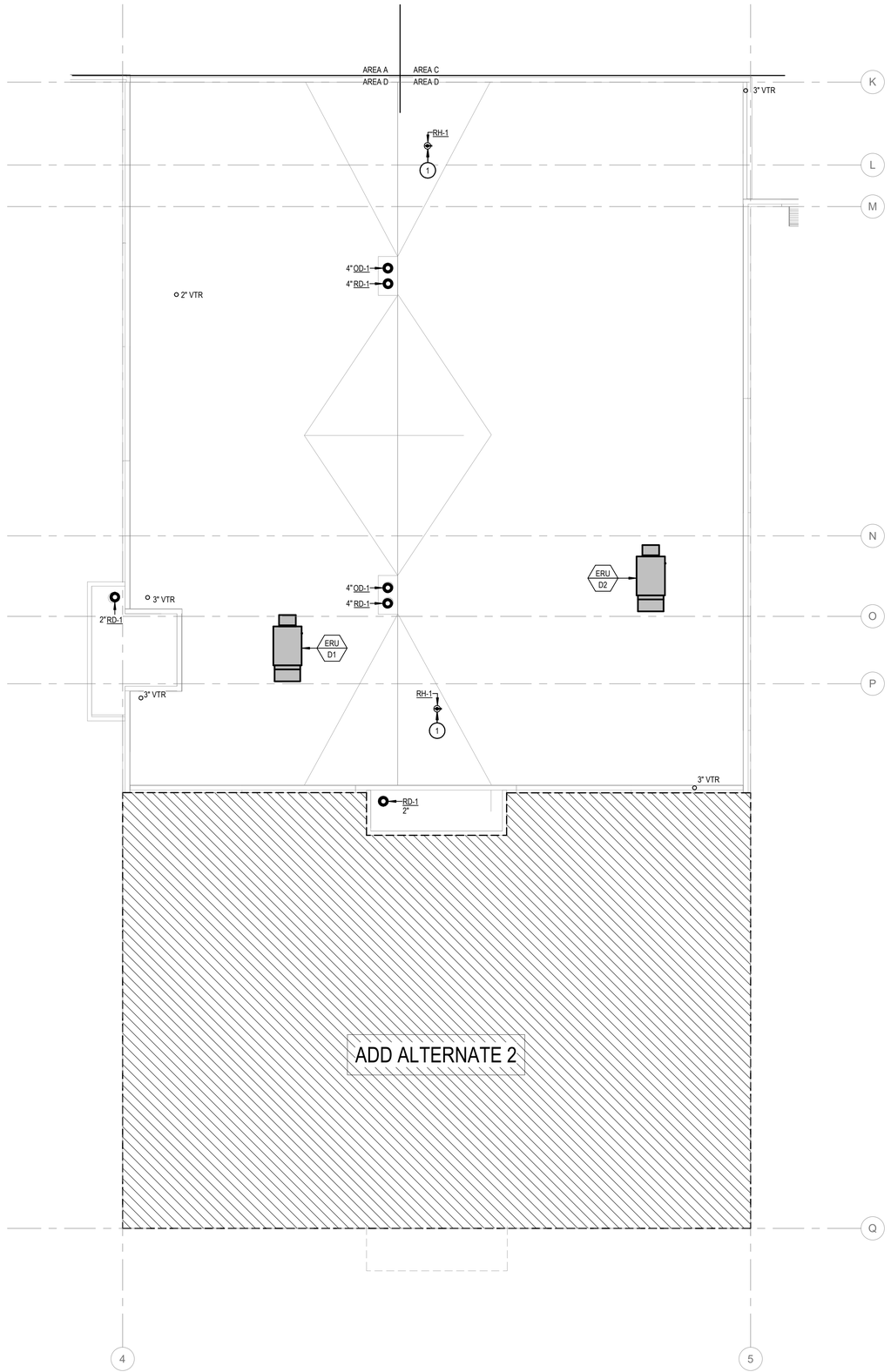
P3.3
PLUMBING ROOF PLAN – AREA C



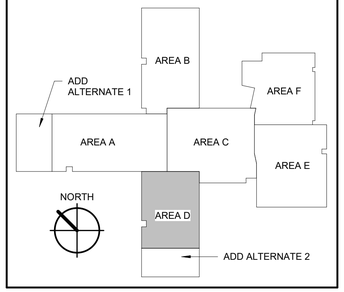
1 PLUMBING ROOF PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE 1" CW LINE FROM CEILING BELOW TO RH-1. LOCATE BALL VALVE IN CEILING SPACE BELOW.

Keyed Plan



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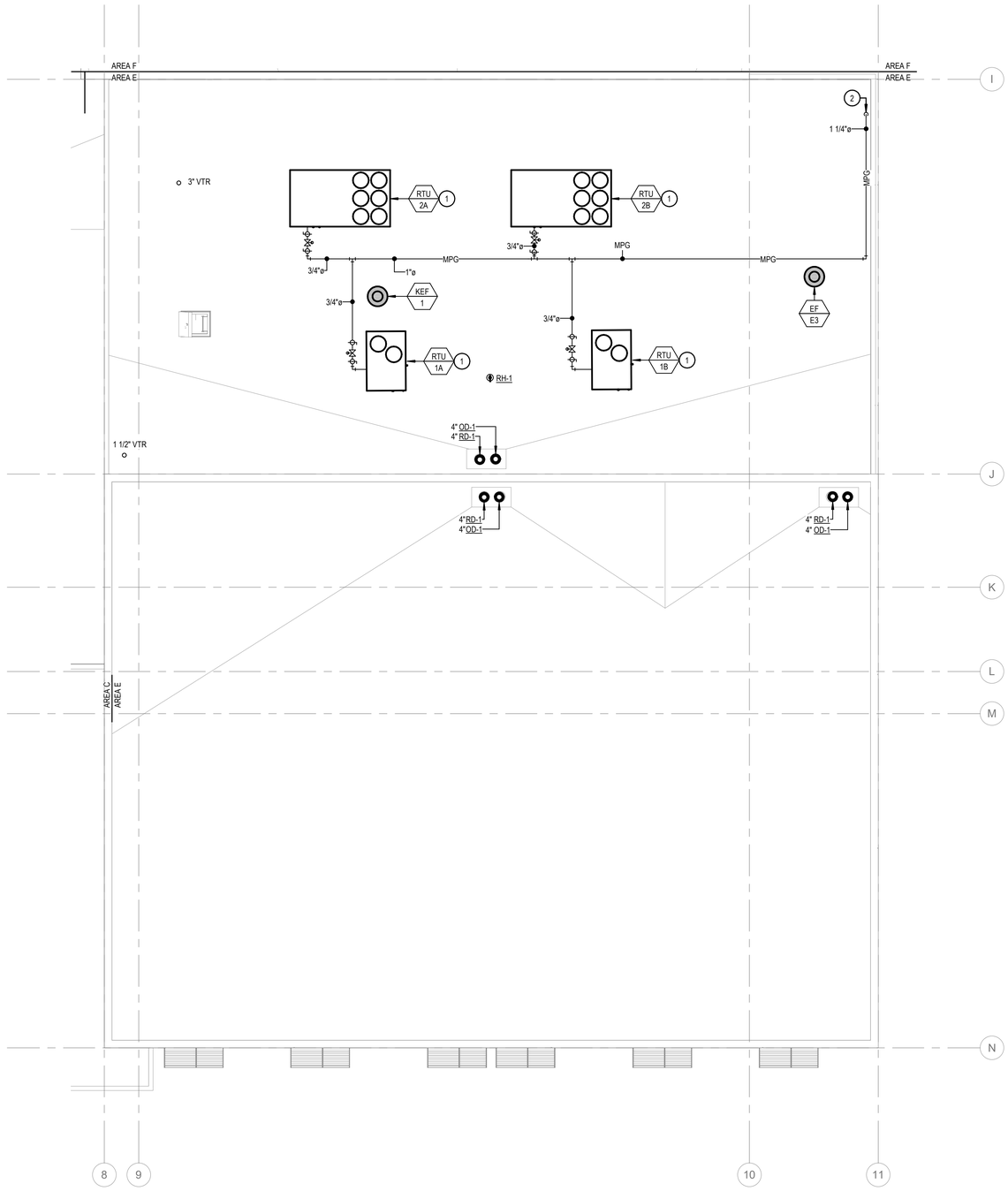
DRAWING NO.:

P3.4
PLUMBING ROOF PLAN – AREA D

KEYED NOTES:

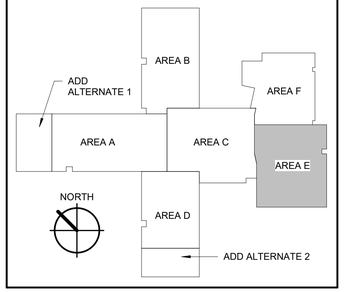
(#) SYMBOL USED FOR CALLOUT

1. SEE GAS CONNECTION AND REGULATOR DETAIL #5 & 6 ON SHEET P5.1.
2. ROUTE 1-1/4" MPG LINE FROM MECHANICAL ROOM BELOW. SEE SHEET P3.5 FOR CONTINUATION.



1 PLUMBING ROOF PLAN - AREA E
1/8" = 1'-0"

Keyed Plan



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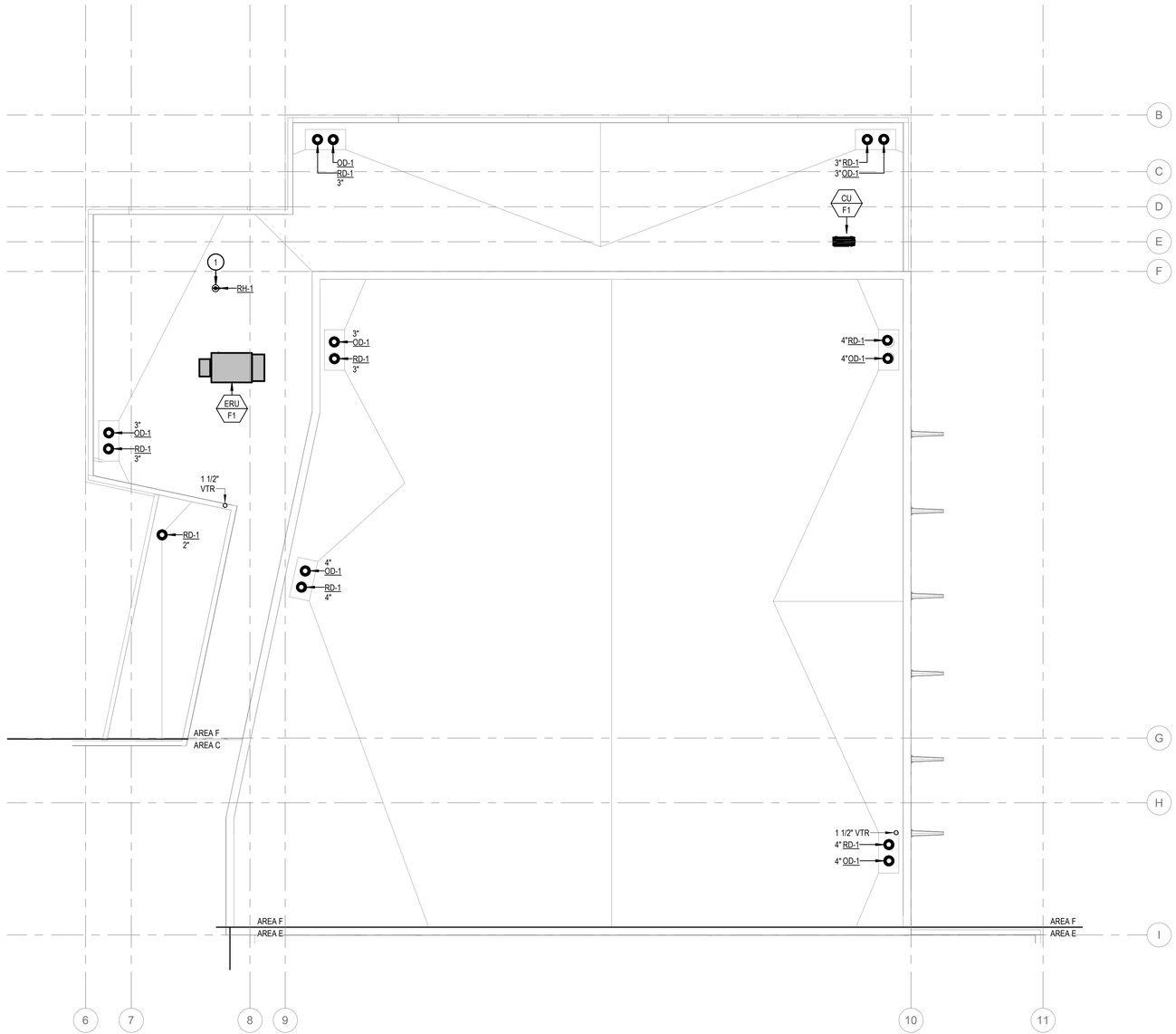
P3.5
PLUMBING ROOF PLAN – AREA E

KEYED NOTES:

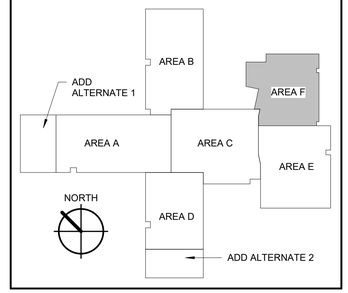
(#) SYMBOL USED FOR CALLOUT

1. LOCATE BALL VALVE IN CEILING SPACE BELOW ROOF HYDRANT.



1 PLUMBING ROOF PLAN - AREA F
1/8" = 1'-0"

Keyed Plan



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PROFESSIONAL ENGINEER
LICENSED
16683
2/18/2022
STATE OF IDAHO
CHRISTOPHER DYKE

MUSGROVE
ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

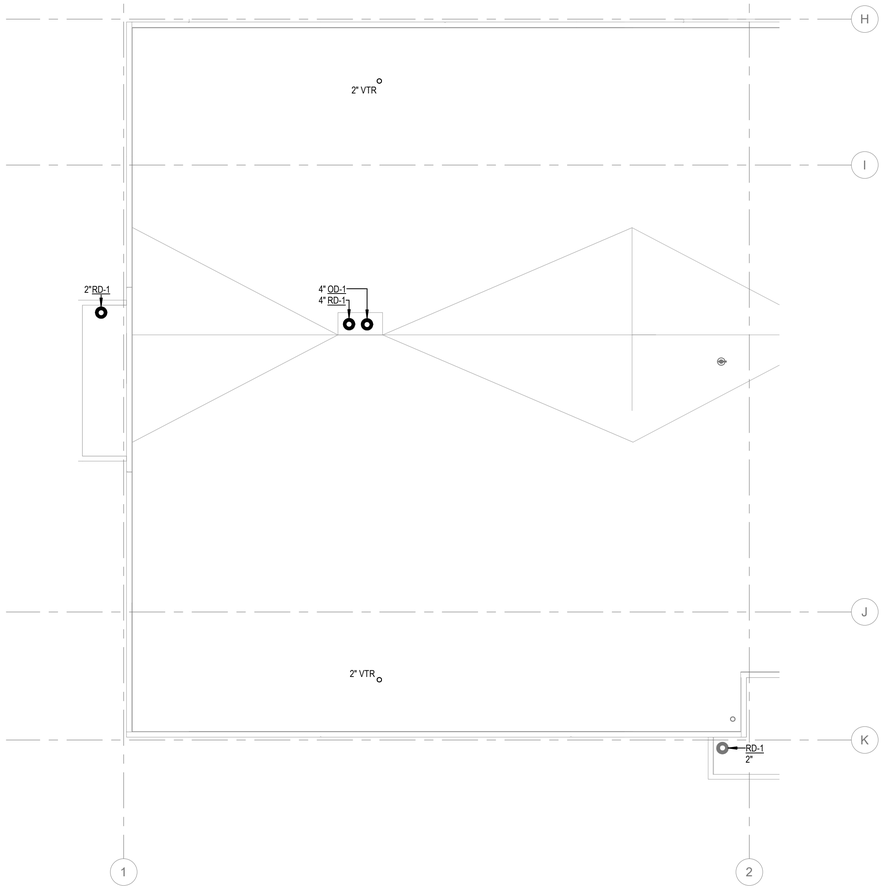
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

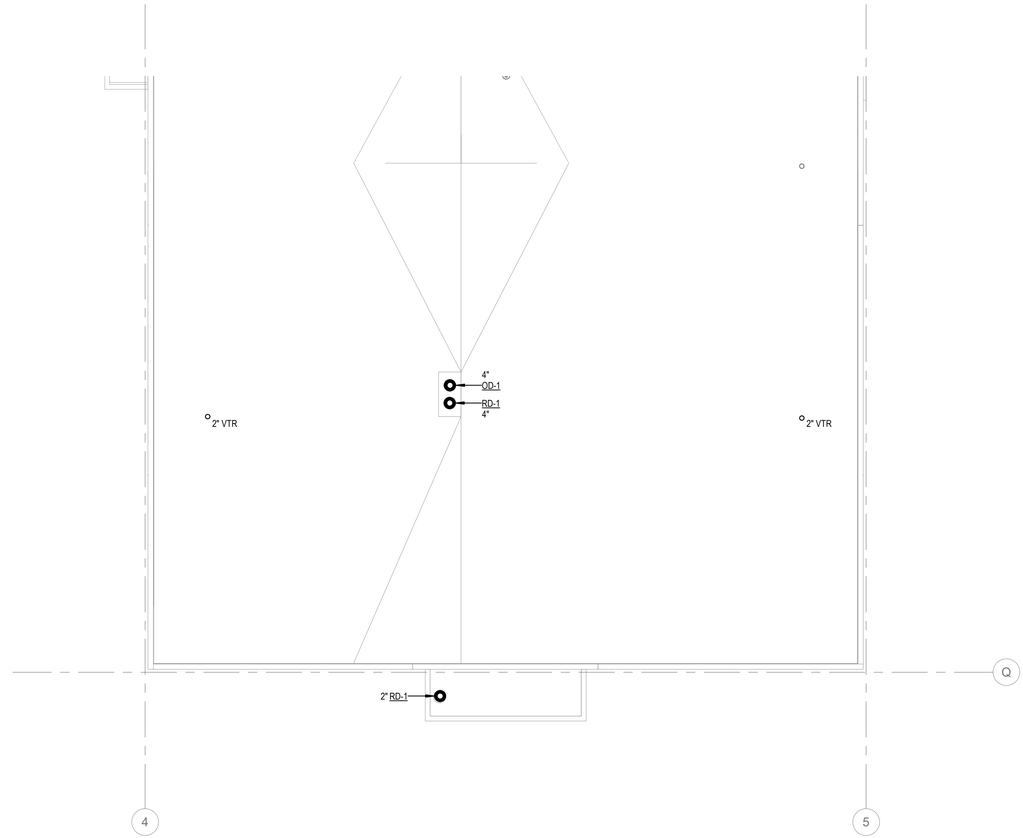
BID SET

DRAWING NO.:

P3.6
PLUMBING ROOF PLAN – AREA F

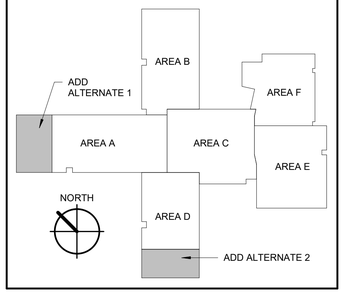


1 PLUMBING ROOF PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



2 PLUMBING ROOF PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

Keyed Plan



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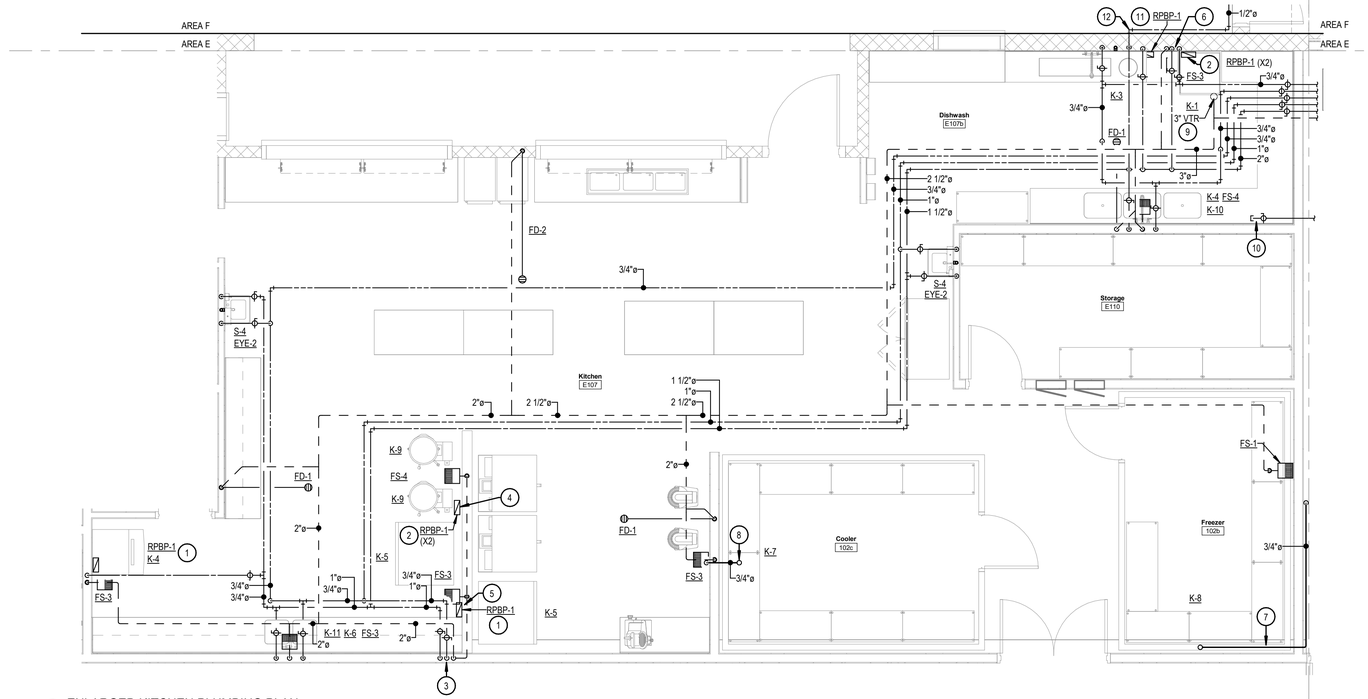
DRAWING NO.:

P3.7
PLUMBING ROOF PLAN – ADD ALTERNATE 1 & 2



1 ENLARGED KITCHEN PLUMBING PLAN
1/4" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE REDUCED PRESSURE BACKFLOW PREVENTOR (POINT OF USE) DETAIL #8 ON P5.3. ROUTE TO NEAREST APPROVED DRAIN. ROUTE THROUGH WALL IF REQUIRED.
2. SEE REDUCED PRESSURE BACKFLOW PREVENTOR (STACKED) DETAIL #2 ON P5.3. ROUTE TO NEAREST APPROVED DRAIN.
3. ROUTE 3/4" HW, 1" CW AND 2" VENT PIPE DOWN IN FULL HEIGHT WALL. PERPENDICULAR TO HALF HEIGHT WALL. ROUTE ALL PIPING HORIZONTALY THROUGH HALF WALL AND CONNECT TO RPBP'S AND EQUIPMENT AS SCHEDULED IN KITCHEN EQUIPMENT SCHEDULE.
4. PROVIDE RPBP-1 FOR HOT WATER AND COLD WATER CONNECTION TO STEAM KETTLES. ROUTE 3/4" HW AND 3/4" CE LINE THROUGH RPBP-1'S THEN SPLIT INTO (2) 1/2" CW AND (2) 1/2" HW FOR CONNECTION TO EACH STEAM KETTLE.
5. ROUTE 3/4" CW LINE THROUGH RPBP-1 THEN SPLIT INTO (2) 1/2" CW LINES FOR CONNECTION TO EACH K-5. ROUTE 1/2" LINES THROUGH WATER FILTER AND CONNECTION TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATION.
6. ROUTE 3/4" HW LINE THROUGH BOOST HEATER BEFORE CONNECTING TO DISHWASHER. CONNECT TO DISHWASHER PER MANUFACTURER'S RECOMMENDATION. 1/2" CW LINE FOR COOL DOWN KIT ON DISHWASHER.
7. ROUTE 3/4" CD FROM FREEZER THROUGH WALL AND SLOPED ALONG WALL IN MECHANICAL ROOM TO FLOOR SINK.
8. ROUTE 3/4" CD FROM COOLER THROUGH WALL TO FLOOR SINK.
9. ROUTE 3" VTR UP NEAR EXHAUST FAN ON ROOF. COORDINATE EXACT LOCAITON OF VTR WITH FAN LOCATION.
10. PROVIDE 1" MPG LINE WITH A SHUT-OFF VALVE AND CAP IN KITCHEN FOR FUTURE USE.
11. ROUTE 1/2" CW LINE THROUGH RBPB-1 AND THEN CONNECTION TO DISPOSER PER MANUFACTURER'S RECOMMENDATION.
12. ROUTE 1/2" CW LINE THROUGH WALL TO DRINKING FOUNTAIN IN CAFETORIUM. SEE SHEET P2.6 FOR CONTINUATION.

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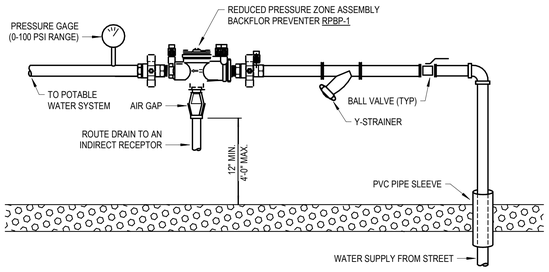
CHECKED BY: Checker

BID SET

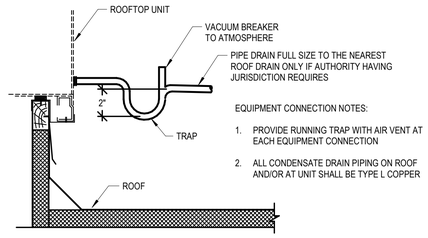
DRAWING NO.:
P4.1
ENLARGED PLUMBING PLANS

NOTE:

1. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
2. THIS SYSTEM IS FOR INDOOR INSTALLATIONS ONLY. THIS VALVE SHALL BE EASILY ACCESSIBLE TO FACILITATE TESTING AND SERVICING. DO NOT INSTALL IN A CONCEALED LOCATION.



1 BUILDING WATER SERVICE DETAIL
NTS



EQUIPMENT CONNECTION NOTES:

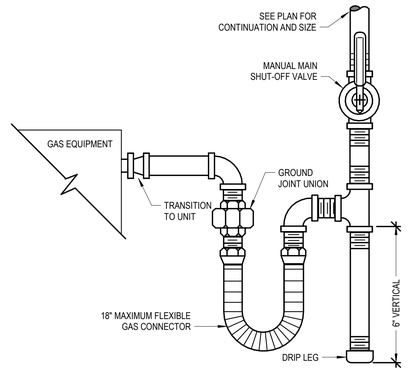
1. PROVIDE RUNNING TRAP WITH AIR VENT AT EACH EQUIPMENT CONNECTION
2. ALL CONDENSATE DRAIN PIPING ON ROOF AND/OR AT UNIT SHALL BE TYPE L COPPER

APPROVED PIPE SUPPORT SYSTEMS:

- MIRO MODEL 1.5 WITH SPACERS
- ADVACNED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC.

PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

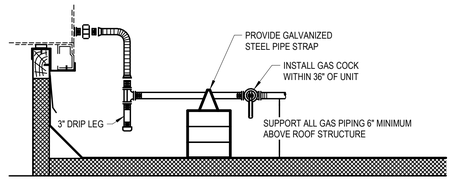
2 CONDENSATE DRAIN DETAIL - ROOFTOP UNIT
NTS



3 GAS EQUIPMENT CONNECTION DETAIL
NTS

EQUIPMENT CONNECTION NOTES:

1. INSTALL FLEX CONNECTION AT ALL ROOF TOP UNITS WHICH HAVE SPRING ISOLATION CURBS (36" MAXIMUM)
2. INSTALL SOLID PIPE CONNECTION TO ALL ROOF TOP UNITS WHICH DO NOT HAVE SPRING ISOLATION CURBS
3. PAINT PIPE WITH RUST RESISTANT PRIMER, RED OR GRAY. SHERWIN WILLIAMS PRO INDUSTRIAL DTM OR APPROVED EQUAL.



APPROVED PIPE SUPPORT SYSTEMS:

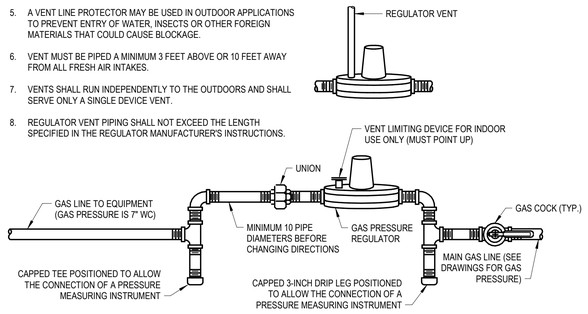
- MIRO MODEL 1.5 WITH SPACERS
- ADVANCED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC

PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

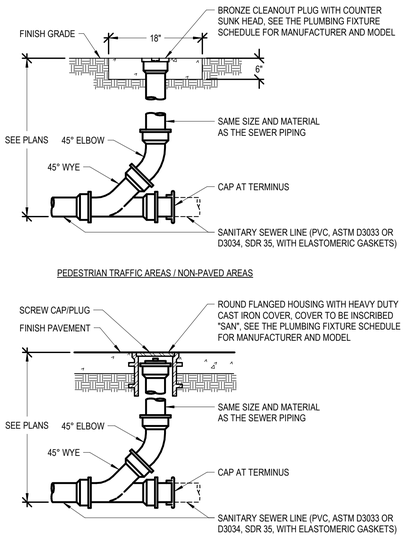
4 GAS EQUIPMENT CONNECTION DETAIL (ROOFTOP UNIT)
NTS

VENTING NOTES:

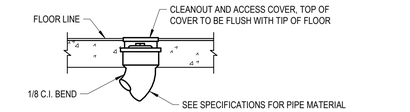
1. VENT REGULATORS PER MANUFACTURER'S AND LOCAL GAS COMPANY'S REQUIREMENTS.
2. DO NOT REDUCE THE VENT PIPE SIZE FROM THE REGULATOR.
3. TO LIMIT THE CONSEQUENCES OF RAIN, SNOW OR DEBRIS GETTING INTO THE VENT, ALWAYS TURN THE OUTLET OF THE VENT DOWN AND ABOVE POTENTIAL WATER OR SNOW LINES.
4. PROVIDE A BUG SCREEN ON THE VENT OUTLET TO DETER INSECTS FROM NESTING IN THE LINE. NEVER PAINT OVER THE BUG SCREEN.
5. A VENT LINE PROTECTOR MAY BE USED IN OUTDOOR APPLICATIONS TO PREVENT ENTRY OF WATER, INSECTS OR OTHER FOREIGN MATERIALS THAT COULD CAUSE BLOCKAGE.
6. VENT MUST BE PIPED A MINIMUM 3 FEET ABOVE OR 10 FEET AWAY FROM ALL FRESH AIR INTAKES.
7. VENTS SHALL RUN INDEPENDENTLY TO THE OUTDOORS AND SHALL SERVE ONLY A SINGLE DEVICE VENT.
8. REGULATOR VENT PIPING SHALL NOT EXCEED THE LENGTH SPECIFIED IN THE REGULATOR MANUFACTURER'S INSTRUCTIONS.



5 GAS PRESSURE REGULATOR DETAIL
NTS

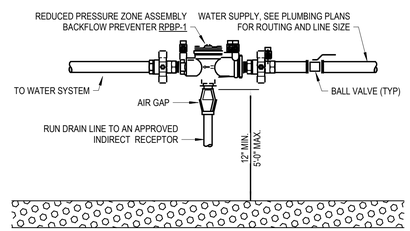


6 GRADE CLEANOUT (GCO) DETAIL
NTS



NOTE:
CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL DRAINAGE PIPE AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET, AND SHALL BE PROVIDED FOR EACH 100 FEET DEVELOPED LENGTH, OR FRACTION THEREOF OF SUCH PIPING. AN ADDITIONAL CLEANOUT SHALL BE PROVIDED FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE DEGREES, PER APPLICABLE PLUMBING CODE. THIS SHALL BE PROVIDED REGARDLESS OF WHAT IS SHOWN ON THE DRAWINGS.

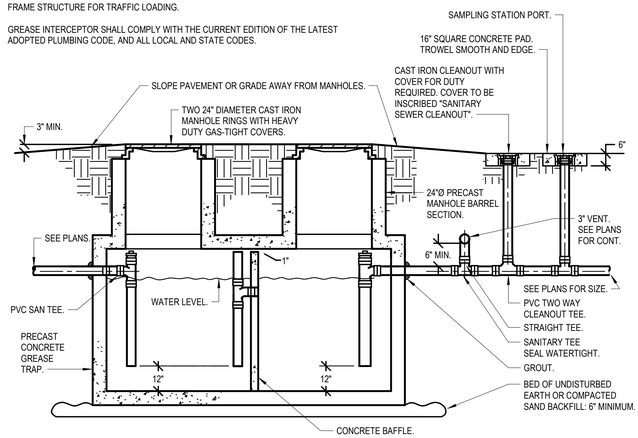
7 FLOOR CLEANOUT (FCO) DETAIL
NTS



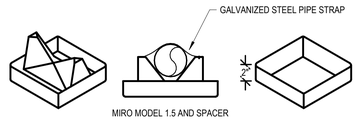
REDUCED PRESSURE BACKFLOW PREVENTER DETAIL (POINT OF USE)
NTS

NOTES:

1. ALL DIMENSIONS SHOWN SHALL BE VERIFIED WITH LOCAL AUTHORITY HAVING JURISDICTION.
2. INTERCEPTOR EXCEEDING 6'-6" IN DEPTH MUST BE CONSTRUCTED OF REINFORCED CONCRETE.
3. ALL SURFACE WATER TO DRAIN AWAY FROM INTERCEPTOR.
4. FRAME STRUCTURE FOR TRAFFIC LOADING.
5. GREASE INTERCEPTOR SHALL COMPLY WITH THE CURRENT EDITION OF THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.



9 GREASE INTERCEPTOR DETAIL (1500 GALLONS)
NTS



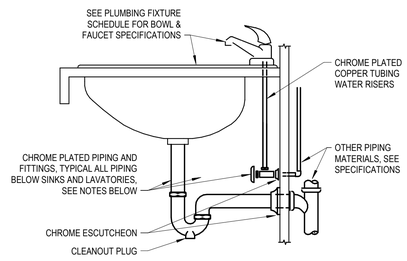
NOTE: ALL GAS PIPING SHALL BE SUPPORTED 6" MINIMUM ABOVE ROOF STRUCTURE

APPROVED PIPE SUPPORT SYSTEMS:

- MIRO MODEL 1.5 WITH SPACERS
- ADVANCED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC

PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

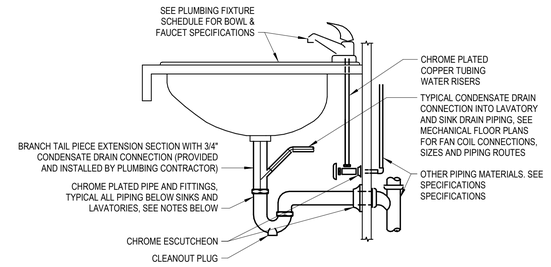
10 ROOF MOUNTED PIPING SUPPORT DETAIL
NTS



NOTES:

A. INTERIOR EXPOSED PIPE, VALVES AND FIXTURE TRIM, INCLUDING TRIM BEHIND CASEWORK DOORS SHALL BE CHROME PLATED.
B. ALL PIPING PENETRATIONS THROUGH FINISHED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS.
C. ALL SINK TRAPS SHALL BE PROVIDED WITH A CLEANOUT PLUG IN THE BOTTOM OF THE TRAP.
D. ALL PLUMBING FIXTURES SHALL BE CAULKED AND SEALED TO SURROUNDING SURFACES.

11 SINK/LAVATORY TAILPIECE & TRAP DETAIL
NTS



NOTES:

1. INTERIOR EXPOSED PIPE, VALVES AND FIXTURE TRIM, INCLUDING TRIM BEHIND CASEWORK DOORS, SHALL BE CHROME PLATED.
2. ALL PIPING PENETRATIONS THROUGH FINISHED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS.
3. ALL SINK AND LAVATORY TRAPS SHALL BE PROVIDED WITH A CLEANOUT PLUG IN THE BOTTOM OF THE TRAP.
4. ALL PLUMBING FIXTURES SHALL BE CAULKED AND SEALED TO SURROUNDING SURFACES.
5. PLUMBING CONTRACTOR SHALL VERIFY THE LOCATION OF ALL LAVATORIES AND SINKS THAT NEED TO BE INSTALLED WITH THE BRANCH TAIL PIECE SECTION WITH 3/4" DRAIN CONNECTION. THE PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO VERIFY THE PLUMBING ROUGH-IN DIMENSIONS AND SHALL TAKE INTO ACCOUNT THE TAIL PIECE EXTENSION DIMENSIONS.

12 SINK/LAVATORY TAILPIECE & TRAP DETAIL (W/ CONDENSATE)
NTS

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PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

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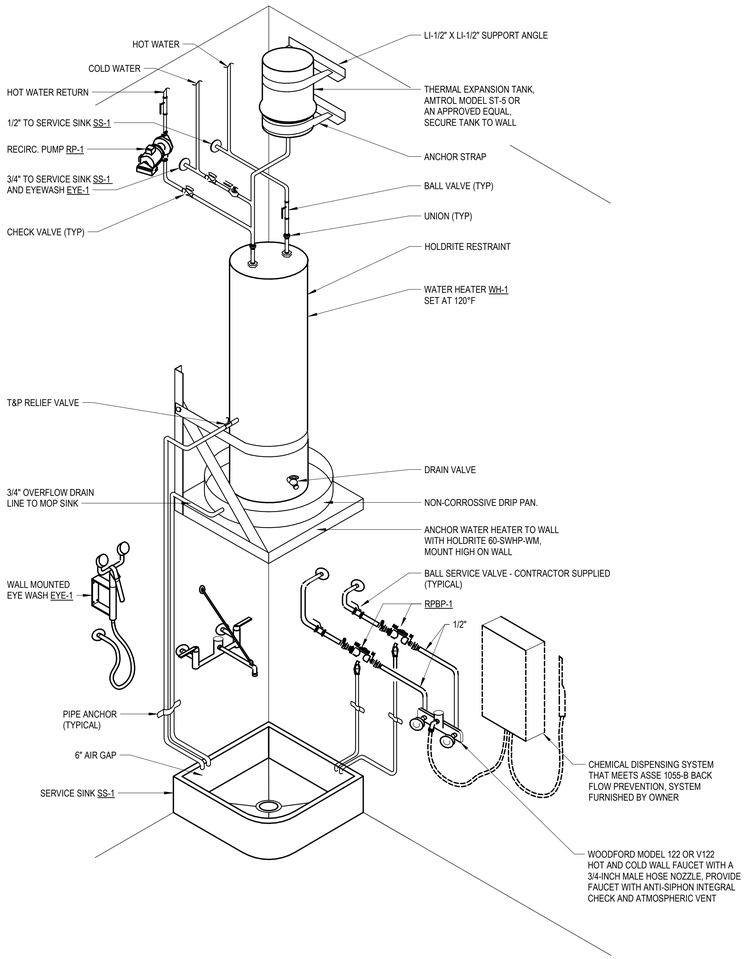
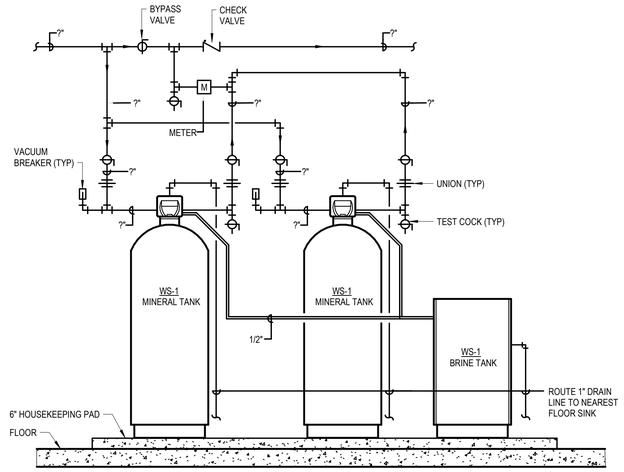
PLUMBING DETAILS



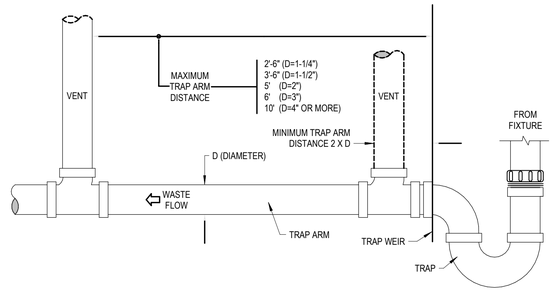
1 SERVICE SINK & WATER HEATER DETAIL (WH-1)
NTS



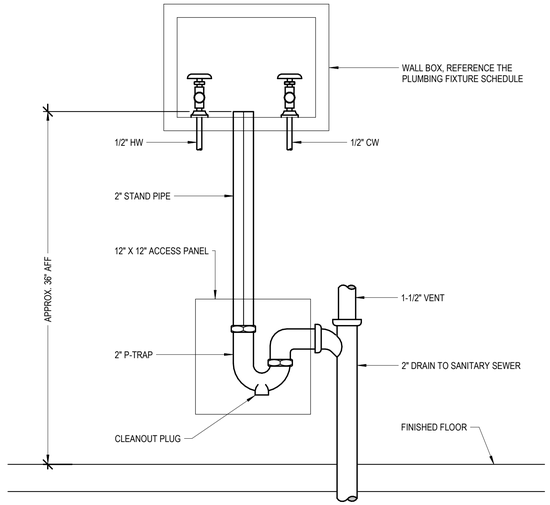
2 WATER SOFTENER PIPING DETAIL
NTS

NOTES:

1. MAINTAIN ONE-FOURTH (1/4) INCH PER FOOT SLOPE.
2. THE DEVELOPED LENGTH BETWEEN THE TRAP OF A WATER CLOSET OR SIMILAR FIXTURE (MEASURED FROM THE TOP OF THE CLOSET FLANGE TO THE INNER EDGE OF THE VENT) AND IT'S VENT SHALL NOT EXCEED SIX (6) FEET.
3. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.



3 TRAP ARM DETAIL
NTS



4 WASHING MACHINE HOOK-UP DETAIL
NTS

FLUSH VALVE TRAP PRIMER NOTES:

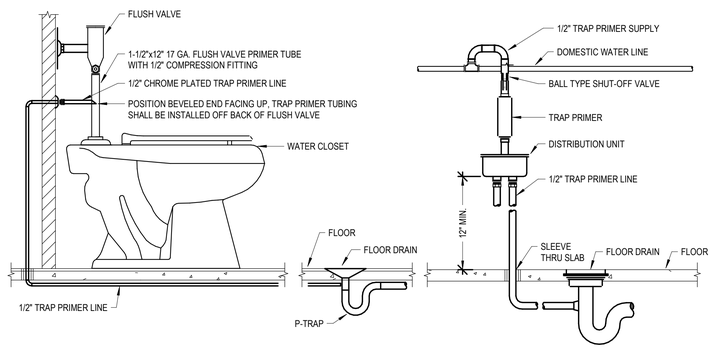
1. THE FLUSH VALVE PRIMER IS DESIGNED TO PRIME ONE FLOOR DRAIN TRAP AT A DISTANCE NOT TO EXCEED 20 FEET FROM POINT OF INSTALLATION.
2. THE FLUSH VALVE PRIMER SHALL BE INSTALLED WITH A VACUUM BREAKER.
3. FLUSH VALVE PRIMER IS INTENDED FOR USE WITH WATER CLOSETS CONSUMING 3.5 TO 1.0 GAL/FLUSH.
4. TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.

PRESSSURE ACTIVATED TRAP PRIMER NOTES:

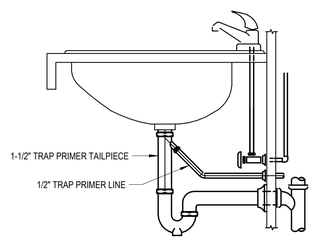
1. THE PRIMING VALVE MUST BE INSTALLED ON A FRESH COLD WATER LINE OF 1/2" TO 1-1/2" DIAMETER.
2. DISTRIBUTION UNIT MUST BE INSTALLED LEVEL WITH AN ACCESS DOOR FOR PERIODIC INSPECTION.
3. DO NOT SUBJECT TRAP PRIMER VALVE TO ROUGH-IN PRESSURE TEST.
4. DISTANCE FROM DISTRIBUTION UNIT TO FLOOR MUST BE 12" FOR EVERY 20' HORIZONTALLY.
5. TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.

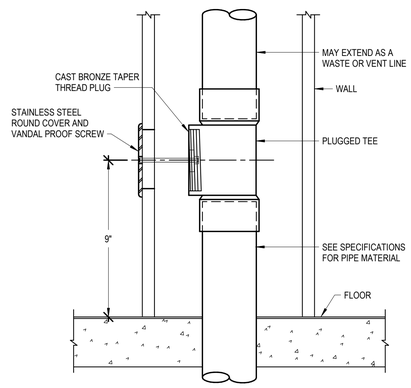
TAILPIECE TRAP PRIMER NOTES:

1. THE TAILPIECE PRIMER IS DESIGNED TO PRIME ONE FLOOR DRAIN TRAP AT A DISTANCE NOT TO EXCEED 20 FEET FROM POINT OF INSTALLATION.
2. TRAP PRIMER SHALL BE DEARBORN BRASS MODEL 832-1 OR AN APPROVED EQUAL.



5 TRAP PRIMER CONNECTION DETAIL
NTS





6 WALL CLEANOUT (WCO) DETAIL
NTS

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

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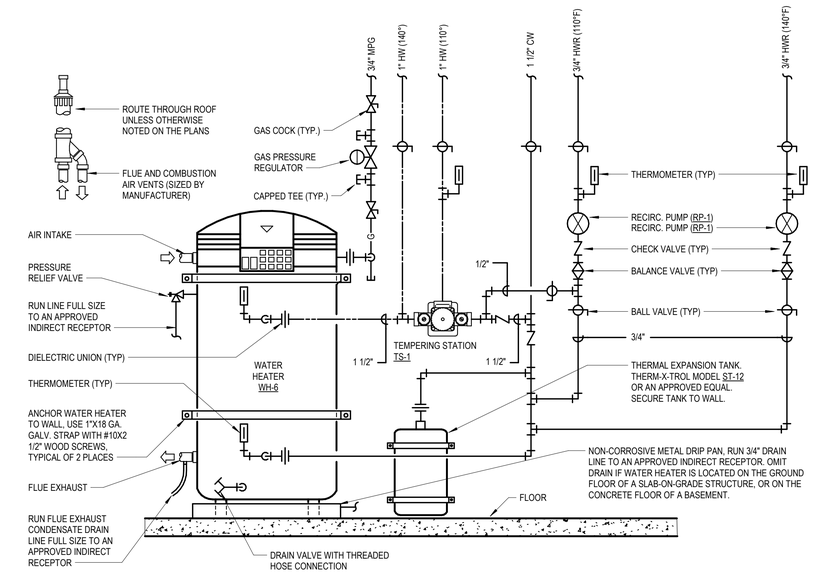
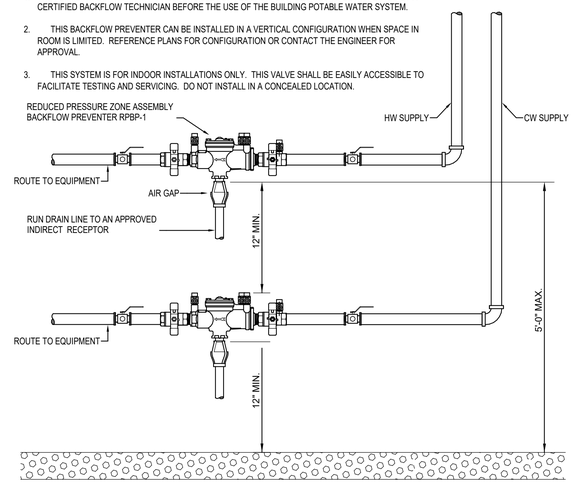
P5.2
PLUMBING DETAILS



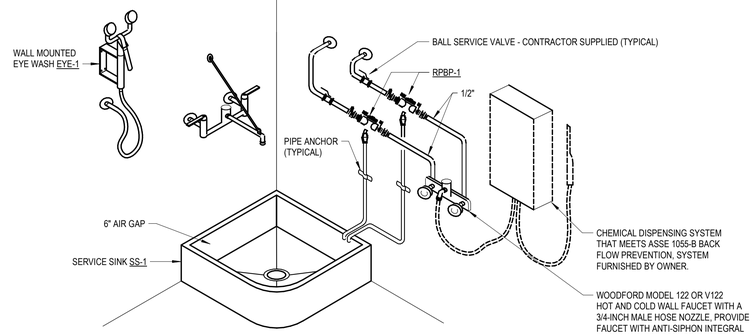
1 HIGH EFFICIENCY GAS WATER HEATER & TEMPERING STATION DETAIL
NTS

NOTE:

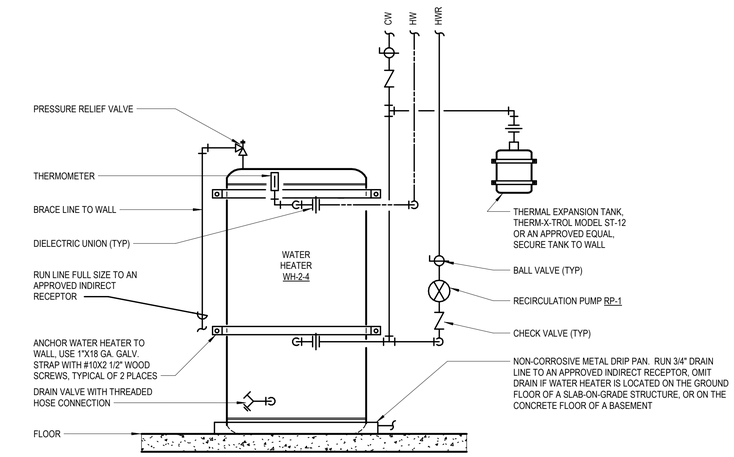
1. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
2. THIS BACKFLOW PREVENTER CAN BE INSTALLED IN A VERTICAL CONFIGURATION WHEN SPACE IN ROOM IS LIMITED. REFERENCE PLANS FOR CONFIGURATION OR CONTACT THE ENGINEER FOR APPROVAL.
3. THIS SYSTEM IS FOR INDOOR INSTALLATIONS ONLY. THIS VALVE SHALL BE EASILY ACCESSIBLE TO FACILITATE TESTING AND SERVICING. DO NOT INSTALL IN A CONCEALED LOCATION.



2 REDUCED PRESSURE BACKFLOW PREVENTOR DETAIL (STACKED)
12" = 1'-0"



3 SERVICE SINK DETAIL
NTS



4 ELECTRIC WATER HEATER DETAIL (WH-2, WH-3, WH-4, & WH-5)
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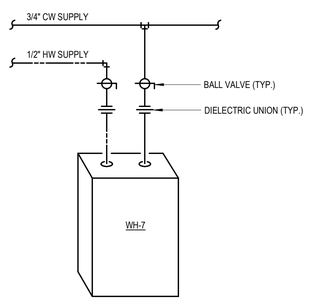

5 WATER HEATER DETAIL - POINT OF USE (WH-7)
NTS

LKV ARCHITECTS
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PROFESSIONAL ENGINEER LICENSED Christopher Dyke 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

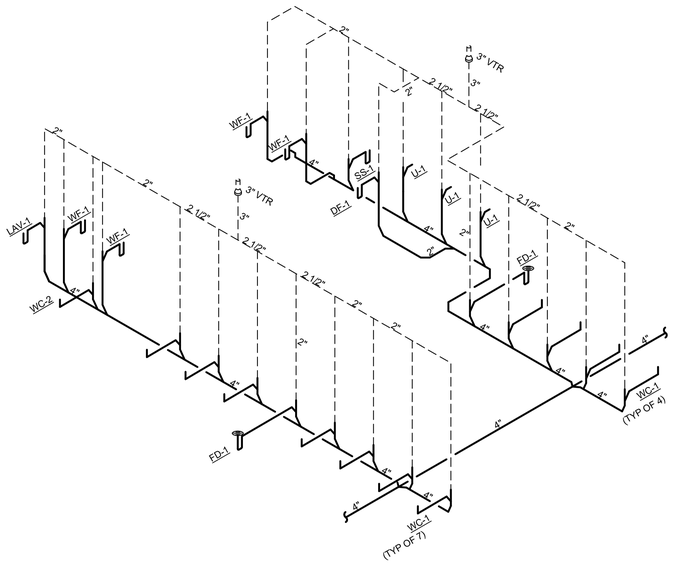
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
P5.3
PLUMBING DETAILS



WASTE AND VENT RISER DIAGRAM 'A'

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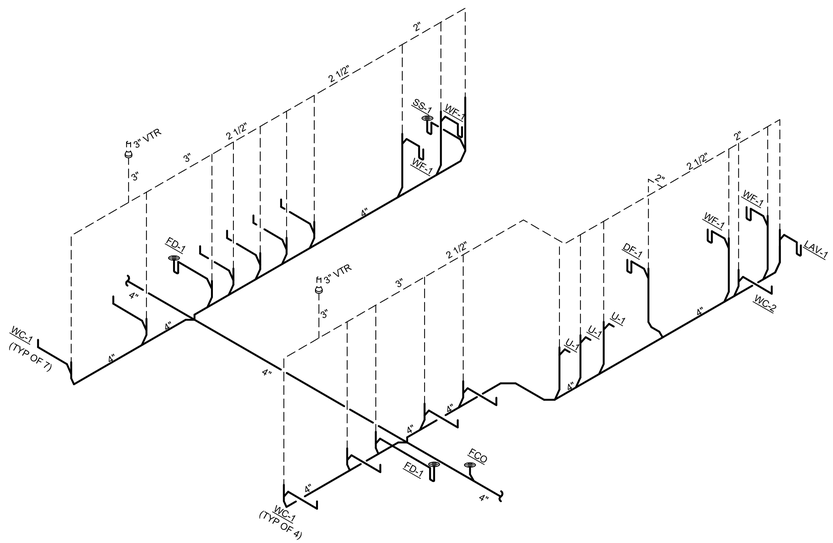

WASTE AND VENT RISER DIAGRAM 'B'

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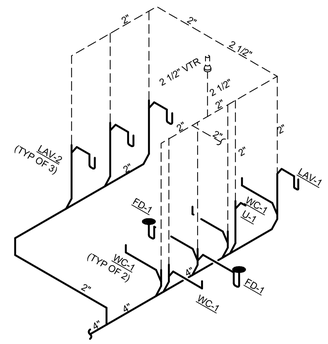

WASTE AND VENT RISER DIAGRAM 'C'

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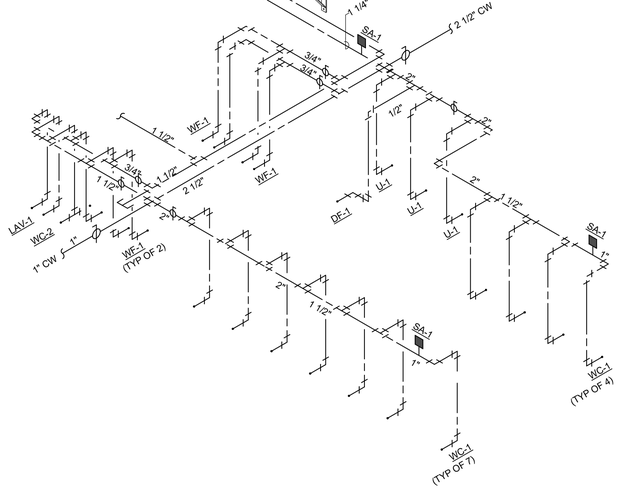

WATER PIPING RISER DIAGRAM 'A'

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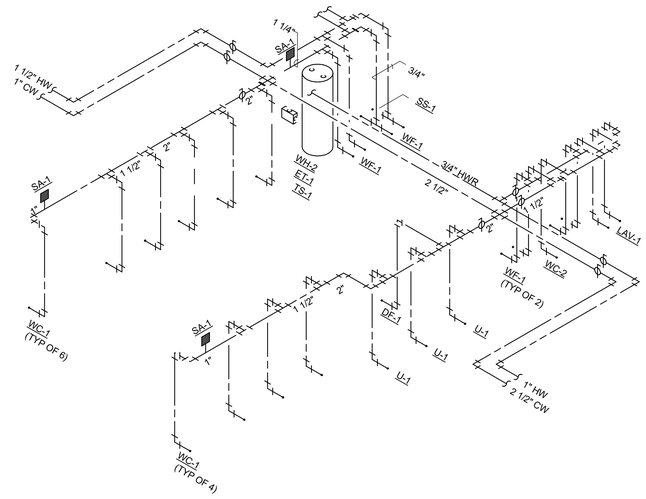

WATER PIPING RISER DIAGRAM 'B'

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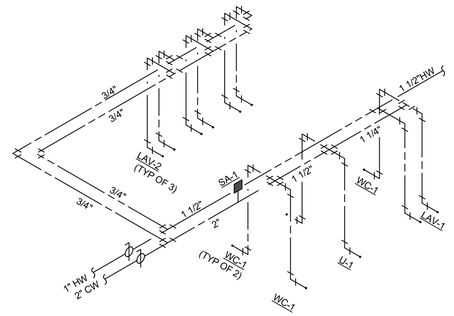

WATER PIPING RISER DIAGRAM 'C'

N.T.S.

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CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

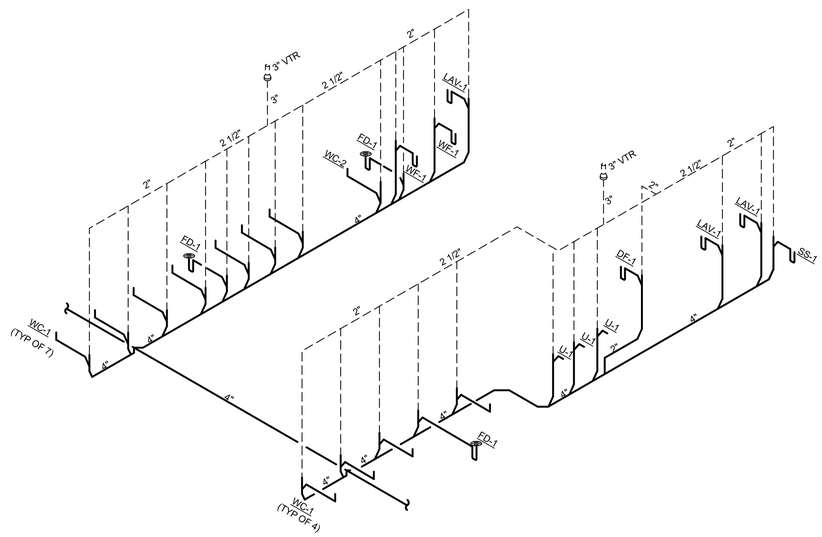
DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:

P6.1

PLUMBING RISER DIAGRAMS



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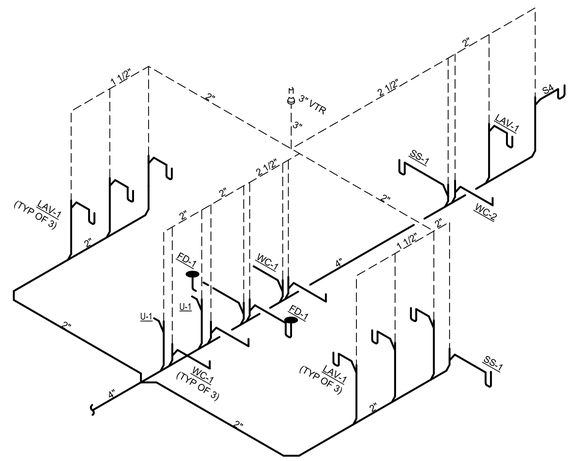

WASTE AND VENT RISER DIAGRAM 'E'

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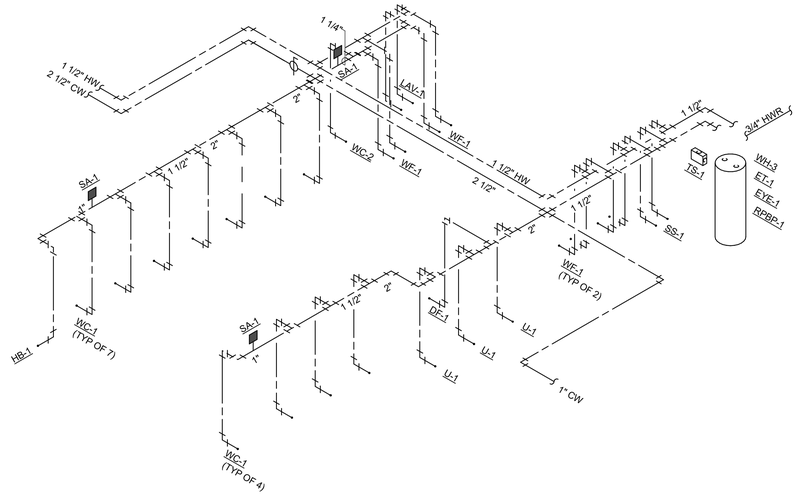

WATER PIPING RISER DIAGRAM 'D'

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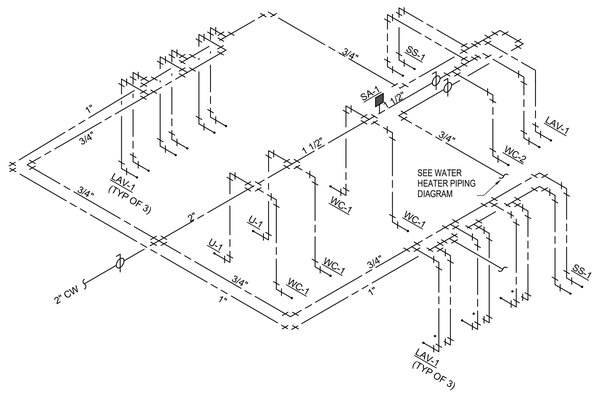

WATER PIPING RISER DIAGRAM 'E'

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P6.2

PLUMBING RISER DIAGRAMS

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
CP-1	CONDENSATE PUMP (5 TONS OR LESS - SINGLE UNIT) (ABOVE CEILING APPLICATION)	1/2 TUBE	--	--	--	--	LITTLE GIANT MODEL EC-400, 2 GPH @ 2' HEAD, 3 FT. SUCTION LIFT, SELF PRIMING AND FLOAT CONTROL, 0.24 AMPS, 115/1, 60 HZ.
D-1	DISPOSER	2	1 1/2	1 1/2	--	--	INSINK ERATOR MODEL BADGER 1: 1/3 HORSEPOWER, 120 VOLTS, 6.7 AMPS, CONTROLLED BY WALL SWITCH. PROVIDE WITH PRE-WIRED POWER CORD.
DF-1	DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (INTERIOR DUAL BUBBLERS) (ELECTRIC WATER COOLER) (ADA COMPLIANT) (HIGH/LOW)	1 1/2	1 1/2	1 1/2	1/2	--	ELKAY MODEL LZSTL8WSLP BI-LEVEL ADA COOLER WITH BOTTLE FILLING STATION FURNISHED WITH FLEXI-GUARD SAFETY BUBBLER. BUBBLER ACTIVATED BY PUSHBAR. BOTTLE FILLER ACTIVATED BY ELECTRONIC SENSOR WITH AUTOMATIC 30-SECOND SHUT-OFF TIMER. PROVIDE WITH OPTIONAL WATER FILTER. 115 VOLT, 5.0 AMPS, 60 HERTZ. PROVIDE WITH JAY R. SMITH 0834 FLOOR MOUNTED SUPPORT CARRIER. CANE APRON TO BE INSTALLED ON HIGH COOLER.
DN-1	DOWN SPOUT NOZZLE (STAINLESS STEEL)	SEE PLANS	--	--	--	--	JAY R. SMITH FIGURE NUMBER 1775 STAINLESS STEEL NOZZLE WITH WALL FLANGE AND HINGED PERFORATED COVER, STAINLESS STEEL FINISH.
ET-1	EXPANSION TANK	--	--	--	3/4	--	AMTROL THERM-X-TROL ST-12, OR APPROVED EQUAL, NON-ASME SERIES THERMAL EXPANSION ABSORBER, ANTI-MICROBIAL LINER, AND 5 YEAR WARRANTY.
EYE-1	EMERGENCY EYE WASH (WALL MOUNTED w/ RECOIL HOSE) (USED WITH SERVICE SINK)	--	--	--	1/2	1/2	ACORN SAFETY MODEL S0406-CH12-BFP, WALL MOUNTED WITH DUAL 45° ANGLED HEADS AND RECOIL HOSE. PROVIDE WITH FLIP TOP DUST COVERS, UNIVERSAL EMERGENCY SIGN, DOUBLE CHECK VALVE, STAINLESS STEEL 90° WITH SHEET NIPPLE, AND ACORN MODEL ET71-1-BVS-OTG LEAD-FREE EMERGENCY THERMOSTATIC MIXING VALVE WITH 1/2" NPT INLETS & OUTLET, 4 GPM @ 5 PSID. PROVIDE WITH LOCKABLE INLET BALL VALVES, STANDARD OUTLET TEMPERATURE GAUGE, AND SELECTABLE TEMPERATURE RANGE FROM 60°F TO 95°F.
EYE-2	EMERGENCY EYE WASH (FAUCET MOUNTED)	--	--	--	--	--	HAWS MODEL 7620 AXION EYEPOD FAUCET-MOUNTED EYEWASH WITH INTERNAL THERMOSTATIC SHUT-OFF VALVE. EYEWASH IS ACTIVATED BY ROTATING HEAD 180°F IN EITHER DIRECTION. EYEWASH COMES WITH A STANDARD 55/64-27 THREAD STAINLESS STEEL FAUCET CONNECTION, ALONG WITH FOUR ADDITIONAL ADAPTORS. PROVIDE WITH OPTIONAL 1.0 GPM LAMINAR FLOW FAUCET OUTLET AND UNIVERSAL EYEWASH SIGN. ANSI Z358.1 AND OSHA COMPLIANT.
FCO	FLOOR CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4020 SERIES WITH ADJUSTABLE, ROUND NICKEL BRONZE TOP AND ABS PLUG.
FD-1	FLOOR DRAIN (DUCTILE IRON BODY) (CONCRETE FLOOR)	2	2	2	--	--	SIOUX CHIEF SERIES NUMBER 832-25DNR, POST-CONSTRUCTION LEVELING FLOOR DRAIN, NO-HUB OUTLET, 5-1/2" ROUND, ADJUSTABLE NICKEL BRONZE STRAINER AND TRAP PRIMER PORT. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FD-2	FLOOR DRAIN (DUCTILE IRON BODY) (CONCRETE FLOOR)	4	2	4	--	--	SIOUX CHIEF SERIES NUMBER 832-4DNR, POST-CONSTRUCTION LEVELING FLOOR DRAIN, NO-HUB OUTLET, 6-1/2" ROUND, ADJUSTABLE NICKEL BRONZE STRAINER AND TRAP PRIMER PORT. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-1	FLOOR SINK (6" DEEP) (HALF GRATE, FOOT TRAFFIC RATED)	2	2	2	--	--	JAY R. SMITH FIGURE NUMBER 3100Y-12, CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-2	FLOOR SINK (10" DEEP) (HALF GRATE, FOOT TRAFFIC RATED)	4	2	4	--	--	JAY R. SMITH FIGURE NUMBER 3160Y-12, CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-3	FLOOR SINK (6" DEEP) (HALF GRATE, FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	2	2	2	--	--	JAY R. SMITH FIGURE NUMBER 3002Y-12, STAINLESS STEEL RECEPTOR, DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-4	FLOOR SINK (10" DEEP) (HALF GRATE, FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	4	2	4	--	--	JAY R. SMITH FIGURE NUMBER 3004Y-12, STAINLESS STEEL RECEPTOR, DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
GCO-1	GRADE CLEANOUT (NON-PAVED AREAS)	SEE PLANS	--	--	--	--	JAY R. SMITH 4220 SERIES, ROUND EXTRA HEAVY DUTY CAST IRON TOP. FURNISH WITH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".
GI-1	GREASE INTERCEPTOR (1500 GALLONS)	4	3	--	--	--	PRE-CAST CONCRETE, 1500 GALLON CAPACITY, GREASE INTERCEPTOR. SEE DRAWING FOR DETAILS. NO SPLIT DESIGN VAULTS WITH GASKETS BELOW FLUID LEVEL ALLOWED.
HB-1	HOSE BIBB (EXTERIOR) (NON-FREEZE)	--	--	--	3/4	--	WOODFORD MODEL 67 - EXPOSED STYLE WITH MODEL 50HA BACKFLOW PREVENTER, 3/4" INLET , AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE FINISH GRADE.
LAV-1	MOTION SENSOR LAVATORY (WALL MOUNTED) (ELECTRIC OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005: VITREOUS CHINA, WALL MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. SLOAN OPTIMA ELECTRONIC HAND WASHING FAUCET MODEL ETF-600 WITH PLUG-IN TRANSFORMER (120 VAC/24 VAC). PROVIDE WITH JAY R. SMITH FIGURE NUMBER 0700-Z SUPPORT WITH CONCEALED ARMS. PROVIDE WITH LS-1 LAV SHIELD.
LAV-2	MOTION SENSOR LAVATORY (COUNTERTOP / CABINET MOUNTED) (ELECTRIC OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER PENNINGTON MODEL K-2196-1: VITREOUS CHINA, COUNTERTOP MOUNTED, SINGLE FAUCET HOLE, AND GRID STRAINER. SLOAN OPTIMA ELECTRONIC HAND WASHING FAUCET MODEL ETF-600 WITH PLUG-IN TRANSFORMER (120 VAC/24 VAC). PROVIDE WITH PIPING INSULATION, TRUEBRO LAV GUARD, PLUMBEREX HANDI-SHIELD, OR EQUAL.
LS-1	LAVATORY SHIELD (WALL MOUNTED SHIELD FOR CONCEALING PIPING, VALVES, AND INSTANTANEOUS WATER HEATERS)	--	--	--	--	--	TRUEBRO "LAV SHIELD" ADA COMPLIANT, TOTAL ENCLOSURE. SINGLE-PIECE CONSTRUCTION, SLOAN OPTISHIELD ETF-529, OR APPROVED EQUAL.
OD-1	OVERFLOW ROOF DRAIN (LOW PROFILE DOME STYLE) (METAL GRATE)	SEE PLANS	--	--	--	--	JAY R. SMITH FIGURE NUMBER 1070Y GENERAL PURPOSE DRAIN WITH LOW PROFILE DOME. PROVIDE WITH SUMP RECEIVER, UNDERDECK CLAMP, CAST IRON DOME, INTERNAL WATER DAM STANDPIPE, AND RAIN SHIELD.
RD-1	ROOF DRAIN (LOW PROFILE DOME STYLE) (METAL GRATE)	SEE PLANS	--	--	--	--	JAY R. SMITH FIGURE NUMBER 1010Y GENERAL PURPOSE DRAIN WITH LOW PROFILE DOME. PROVIDE WITH SUMP RECEIVER, UNDERDECK CLAMP, AND CAST IRON DOME.
RH-1	ROOF HYDRANT (NON-FREEZE)	--	--	--	3/4	--	WOODFORD MODEL SRH-MS NON-FREEZE STYLE ROOF HYDRANT WITH 3/4" HOSE CONNECTION AND INTEGRAL DOUBLE CHECK BACKFLOW PREVENTER. NO DRAIN REQUIRED WITH THE HOSE REMOVED.
RP-1	RECIRCULATION PUMP (HOT WATER RETURN SYSTEM) (VARIABLE SPEED PUMP)	--	--	--	--	3/4	BELL AND GOSSETT STAINLESS STEEL ECOCIRC XLN 20-35, 115 VOLT HARD WIRED, 1/12 HP, 85 WATTS. PUMP IS RATED FOR 20 GPM AT 10FT HEAD. PUMP SHALL BE PROVIDED WITH AUTOMATIC NIGHT MODE, TEMPERATURE CONTROL MODE, CONTROL AND DISPLAY PANEL, INPUT/OUTPUT POINTS. CONTROL PUMP TO CONSTANT TEMPERATURE MODEL. APPROVED ALTERNATE: ARMSTRONG, TACO, GRUNDFOS.
RP-2	RECIRCULATION PUMP (HOT WATER RETURN SYSTEM) (MEDIUM SIZED SYSTEM)	--	--	--	--	3/4	BELL AND GOSSETT BRONZE MODEL NBF-22, 115 VOLT, 0.8 AMPS, 92 WATTS, AND SHALL PROVIDE 7 GPM AT 10 FEET HEAD. INCLUDE 7-DAY PROGRAMMABLE ELECTRONIC TIME CLOCK WITH BATTERY BACKUP, INTERMATIC MODEL GM40AVE-RD89. APPROVED ALTERNATE: ARMSTRONG, TACO, GRUNDFOS.
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	INDIRECT			--	--	WATTS SERIES LF009 LEAD-FREE REDUCED PRESSURE ZONE ASSEMBLY WITH QUARTER-TURN BALL VALVES, STRAINER, AND AIR GAP. CAST COPPER BODY CONSTRUCTION - 1/2" THRU 2". PROVIDE SERIES 957 FOR SIZES 2 1/2" THRU 10". SEE NOTE #6.
S-1	SINK - CLASSROOM WITH BUBBLER (22"X19 1/2"X5 1/2") (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL DRK AD-222055C / 5 1/2" DEEP, STAINLESS STEEL SINK, CHICAGO FAUCETS MODEL 2302-ABCP/ SINGLE LEVER FAUCET AND SWING SPOUT, CHICAGO FAUCETS MODEL 748-665FH ABCP/ BUBBLER, ELKAY MODEL LK-35 / CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET STRAINER. SWING SPOUT IS TO BE LOCKED IN PLACE.
S-2	SINK - DOUBLE COMPARTMENT (14" X 14" X 6 1/2" - EACH) (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD331965: 6-1/2" DEEP, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK300/CR SINGLE LEVER CHROME FAUCET WITH SWING SPOUT AND HOSE SPRAY, ELKAY MODEL LK35 STAINLESS STEEL STRAINER BASKET AND TAILPIECE.
S-3	SINK - SINGLE COMPARTMENT (17" X 20" X 6 1/2") (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD172065: 6-1/2" DEEP, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK300/CR SINGLE LEVER CHROME FAUCET WITH SWING SPOUT AND HOSE SPRAY, ELKAY MODEL LK35 STAINLESS STEEL STRAINER BASKET AND TAILPIECE.
S-4	SINK - KITCHEN HANDWASH (19" X 12" X 6") (WALL MOUNTED)	2	1 1/2	1 1/2	1/2	1/2	ELKAY HANDWASH SINK MODEL CHS1716C: 6" DEEP, WALL MOUNTED, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK940GN04L2H HIGH GOOSENECK SPOUT FAUCET WITH 8" CENTERS AND LEVER HANDLES, ELKAY MODEL LK8 GRID STRAINER AND TAILPIECE, ELKAY MODEL LK500 P-TRAP WITH CLEANOUT PLUG. PROVIDE WITH FAUCET-MOUNTED EYEWASH EYE-2.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
SA-1	SHOCK ABSORBER (WATER HAMMER ARRESTOR)	--	--	--	--	--	JAY R. SMITH FIGURE NUMBER 5005 TO 5050, SIZED PER FIXTURES SERVED. PROVIDE AN ACCESS PANEL AND A BALL TYPE SHUT-OFF VALVE UPSTREAM OF SHOCK ABSORBER. APPROVED ALTERNATES: PRECISION PLUMBING PRODUCTS (PPP), SIOUX CHIEF, PROFLO, AND ZURN.
SHR-1	SHOWER (42" X 38" X 79") (INSERT STYLE - TRANSFER) (ADA COMPLIANT)	2	1 1/2	2	1/2	1/2	BEST BATH SYSTEMS MODEL LCS4238AST, ONE PIECE, FIBERGLASS SHOWER WITH 1/2" THRESHOLD (CLASSIC TILE FINISH). MODULE SHALL BE CONSTRUCTED OF GELCOAT/FIBERGLASS WITH FULL INTEGRAL PLYWOOD BACKING IN ALL THE WALLS FOR STRENGTH AND CUSTOMIZED INSTALLATION OF ACCESSORIES. PRE-LEVELED FLOOR FOR EASY INSTALLATION (LOW THRESHOLD DESIGN REQUIRES 8" X 8" BLOCK OUT CENTERED AT DRAIN PIPE LOCATION). ACCESSORIES: (1) 12" S.S. GRAB BAR, (1) 24" S.S. GRAB BAR, (1) 27" S.S. GRAB BAR. (1) 32"X16" PHENOLIC SLAB, ADA COMPLIANT, SWING-DOWN SEAT WITH LEGS, (1) SURFACE MOUNTED SOAP DISH, (1) SIOUX CHIEF MODEL 827-2B CAULKLESS BRASS DRAIN WITH STAINLESS STEEL STRAINER, (1) TWS COLLAPSIBLE "T SHAPED WATER RETAINER. PROVIDE MOEN MODEL 8346 HAND-HELD SHOWER SYSTEM, PRESSURE BALANCING VALVE WITH 1/4" TURN STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP. HAND-HELD SHOWER HEAD, 69" DOUBLE SWIVEL HOSE ASSEMBLY, 30" SLIDE BAR, VACUUM BREAKER, DROP ELL. PROVIDE STAINLESS STEEL CURTAIN ROD AND WEIGHTED SHOWER CURTAIN.
SS-1	SERVICE SINK (24" X 24" X 10") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TRH-242410: PROVIDE AND INSTALL WITH MODEL KFC CHROME UTILITY FAUCET, STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, 36" HOSE AND WALL HANGER, MOP HANGER, AND (2) STAINLESS STEEL WALL GUARDS. MOUNT FAUCET 36" AFF.
TP-1	TRAP PRIMER (PRESSURE ACTIVATED) (1 TO 4 TRAPS)	--	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED FOR SERVING MORE THAN ONE TRAP. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, SLOAN, AND ZURN.
TP-1	TRAP PRIMER (FLUSH VALVE PRIMER) (1 TRAP)	--	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. TRAP PRIMER TUBING SHALL BE INSTALLED OFF BACK OF FLUSH VALVE. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, SLOAN, AND ZURN
TP-1	TRAP PRIMER (LAVATORY TAILPIECE PRIMER) (1 TRAP)	--	--	--	1/2"	--	DEARBORN BRASS 1-1/2" TRAP PRIMER TAILPIECE WITH COMPRESSION CONNECTION.
TS-1	TEMPERING STATION	--	--	--	--	--	SYMMONS TEMPCONTROL MODEL7-1000 A SERIES MIXING STATION, LEAD FREE COMPLIANT VALVE AND COMPONENTS, TEMPERATURE GAUGE AND BALL VALVE.
U-1	URINAL (MOTION SENSOR / HARD WIRED) (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)	2	1 1/2	INT.	3/4	--	KOHLER BARDON MODEL K-4991-ET WALL MOUNTED URINAL WITH 3/4" TOP SPUD. SLOAN ROYAL 186 ESS-0.5-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 0.5 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC) AND EL-485-A FLUSHOMETER ELECTRICAL BOX. INCLUDE BEEHIVE STRAINER AND JAY R. SMITH FIGURE NUMBER 0637 ADJUSTABLE FIXTURE SUPPORT.
US-1	UTILITY SINK (23" X 21" X 13") (FLOOR MOUNTED)	2	1 1/2	1 1/2	1/2	1/2	FIAT MOLDED STONE MODEL FL-1 FLOOR MOUNTED SINK WITH EASY LEVELING LEGS, DRAIN ASSEMBLY AND STOPPER. PROVIDE FIAT A1 CHROME FAUCET, DECK MOUNTED, 4" O.C. WITH 4" WRISTBLADE HANDLES, & 6-3/4" SWING SPOUT.
WB-1	WALL BOX (WATER SUPPLY TO ICE MAKER)	--	--	--	1/2	--	OATEY FIREMASTER MODEL 39121 WITH FACEPLATE AND ADJUSTABLE METAL SUPPORT BRACKETS. FIRE-RATED, LOW LEAD, OR APPROVED EQUAL.
WB-2	WALL BOX (SUPPLY TO AND DRAIN FROM WASHING MACHINE)	2	1 1/2	2	1/2	1/2	OATEY FIREMASTER MODEL 38478 WITH FACEPLATE, ADJUSTABLE METAL SUPPORT BRACKETS, AND WATER HAMMER ARRESTORS. FIRE RATED, OR APPROVED EQUAL.
WC-1	WATER CLOSET (17-1/2" SEAT HEIGHT) (MOTION SENSOR / HARD WIRED) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA COMPLIANT)	4	2	INT.	1	--	KOHLER HIGHCLIFF ULTRA MODEL K-96057 FLOOR MOUNTED WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN ROYAL 186 ESS-1.6-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 1.6 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC), EL-485-A FLUSHOMETER ELECTRICAL BOX.
WC-2	WATER CLOSET (17-1/2" SEAT HEIGHT) (FLUSH TANK) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA)	4	2	INT.	1/2	--	KOHLER CIMARRON MODEL K-5310 (LEFT LEVER) / K-5310-RA (RIGHT LEVER), FLOOR MOUNTED, GRAVITY FLUSH TANK WITH ELONGATED BOWL, 1.28 GPF. KOHLER LUSTRA MODEL K-4650 ELONGATED, OPEN FRONT SEAT WITH CHECK HINGE AND NO COVER.
WCO	WALL CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4472T SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.
WF-1	WASH FOUNTAIN (PUSH BUTTON ACTIVATED)	2	1 1/2	1 1/2	1/2	1/2	BRADLEY MODEL MF2933 WALL MOUNTED WASH FOUNTAIN WITH (3) FAUCET STATIONS AND TERRAZZO FINISH. PROVIDE WITH PNEUMATIC PUSH BUTTON ACTIVATION, MANUAL MIXING VALVE, COLOR TO BE SELECTED BY ARCHITECT AND SHROUD. FAUCETS SHALL BE INDEPENDENTLY PIPED WITH SEPARATE ISOLATION VALVES AND THERMOSTATIC MIXING VALVES. PROVIDE 2 EXTRA ISOLATION VALVES AND THERMOSTATIC MIXING VALVES OR FUTURE MAINTENANCE.
WH-1	WATER HEATER (50 GALLON UPRIGHT MODEL) (460V-3Ø ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL CEHD050, SIMULTANEOUS ELEMENTS, (6) 4.0 KW, 460V/3Ø, 24" DIAMETER, 52" TALL, WITH TOP HW AND BOTTOM CW CONNECTIONS. PROVIDE WITH WALL BRACKET SUPPORT AND SEISMIC STRAP.
WH-2	WATER HEATER (50 GALLON UPRIGHT MODEL) (460V-3Ø ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL CEHD050, SIMULTANEOUS ELEMENTS, (6) 4.0 KW, 460V/3Ø, 24" DIAMETER, 52" TALL, WITH TOP HW AND BOTTOM CW CONNECTIONS. PROVIDE WITH WALL BRACKET SUPPORT AND SEISMIC STRAP.
WH-3	WATER HEATER (50 GALLON UPRIGHT MODEL) (460V-3Ø ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL CEHD050, SIMULTANEOUS ELEMENTS, (6) 4.0 KW, 460V/3Ø, 24" DIAMETER, 52" TALL, WITH TOP HW AND BOTTOM CW CONNECTIONS. PROVIDE WITH WALL BRACKET SUPPORT AND SEISMIC STRAP.
WH-4	WATER HEATER (50 GALLON UPRIGHT MODEL) (460V-3Ø ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL CEHD050, SIMULTANEOUS ELEMENTS, (6) 4.0 KW, 460V/3Ø, 24" DIAMETER, 52" TALL, WITH TOP HW AND BOTTOM CW CONNECTIONS. PROVIDE WITH WALL BRACKET SUPPORT AND SEISMIC STRAP.
WH-5	WATER HEATER (50 GALLON UPRIGHT MODEL) (460V-3Ø ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL LE350S3-3, NON-SIMULTANEOUS DUAL ELEMENTS, (2) 6.0 KW, 460V/3Ø, 24" DIAMETER, 49" TALL, WITH TOP HW & BOTTOM CW CONNECTIONS. PROVIDE WITH WALL BRACKET SUPPORT AND SEISMIC STRAP.
WH-6	WATER HEATER (NOMINAL 100 GALLON) (NATURAL GAS - HIGH EFFICIENCY)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL EF-100T-199E-3N. 199 MBH INPUT, 110V/1Ø, 1.8 AMPS, 28" DIAMETER, 78" TALL WITH SIDE CONNECTIONS. PROVIDE WITH PVC CONCENTRIC INTAKE/VENT KIT AND SEISMIC STRAP.
WH-7	WATER HEATER (POINT OF USE) (ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE SINGLE POINT MODEL ES-4100-2-S-10, 208/1, 19.7 AMPS, 4.1 KW, AND SHALL PROVIDE 56°F TEMPERATURE RISE AT 0.5 GPM.
WHS-1	WATER HEATER STAND	--	--	--	--	--	PRE-ASSEMBLED WATER HEATER STAND, 16" TALL, GALVANIZED STEEL CONSTRUCTION. STAND SHALL BE STRUCTURALLY DESIGNED BY MANUFACTURER FOR SIZE OF WATER HEATER SPECIFIED. FURNISH WITH SEISMIC WALL CLIPS.
WS-1	WATER SOFTENER (DUPLEX SYSTEM)	INDIRECT			2	--	KINETICO COMMERCIAL DUPLEX WATER SOFTENER SYSTEM: SHALL MEET THE FOLLOWING CRITERIA: EXCHANGE CAPACITY OF 100-150 GRAINS, 60 GPM @ 15 PSI MAX PRESSURE DROP. 2000 GPD, 7 HOURS PER DAY, 5 DAYS A WEEK. ELECTRICAL SHALL PROVIDE 120V/1□ PLUG OUTLET.

NOTES:

1. ALL ADA COMPLIANT FIXTURES MUST COMPLY WITH ICC/ANSI A117.1. SEE ARCHITECTURAL PLANS FOR HANDICAPPED FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS.
2. ALL EXPOSED HW PIPING, CW PIPING, AND DRAIN LINES BENEATH ALL LAVATORIES AND ALL ADA COMPLIANT SINKS MUST BE INSULATED TO PREVENT INJURY. REFER TO ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO, PLUMBEREX, OR EQUAL.
3. PROVIDE P-TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS (NOT ALL TRAP PRIMERS ARE INDICATED ON PLANS - REFERENCE DETAILS FOR ADDITIONAL INFORMATION). PROVIDE A BALL TYPE SHUT-OFF VALVE UPSTREAM OF PRIMER VALVE. SEE SPECIFICATIONS.
4. SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.
5. HIGH EFFICIENCY WATER HEATERS: PROVIDE WITH CONDENSATE NEUTRALIZATION KIT BY JJM BOILER WORKS MODEL JM (OR EQUAL), SIZED PER EQUIPMENT CAPACITY.
6. BACKFLOW PREVENTION: THIS BUILDING IS PROVIDED WITH A REDUCED PRESSURE BACKFLOW PREVENTER (RPBP) ON THE MAIN WATER SERVICE AND ON THE FOLLOWING PIECES OF EQUIPMENT:
   -- SERVICE SINK CHEMICAL DISPENSING STATION (HW & CW)
   -- ICE MACHINE
   -- MECHANICAL ROOM MAKEUP WATER
   -- KITCHEN EQUIPMENT AS REQUIRED

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
|

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
P7.1
PLUMBING SCHEDULES

KITCHEN PLUMBING EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT REFERENCE	FIXTURE DESCRIPTION	CONNECTION SIZE						MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS	REMARKS
			WASTE	VENT	TRAP	CW	HW	GAS		
K-1	#1	DISHWASHER WITH BOOST HEATER	INDIRECT TO FS-3			1/2"	3/4"	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	1 , 3
K-2	#2	DISHTABLE WITH 3-COMP SINK	INDIRECT TO FS-4			--	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	---
K-3	#4	PRE-RINSE UNIT	--	--	--	1/2	1/2	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	---
K-4	#8	ICE MAKER	INDIRECT TO FS-3			1/2"	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	1
K-5	#9	DOUBLE STACK COMBI OVEN	INDIRECT TO FS-3			3/4" 3/8"	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	1 , 2
K-6	#14	DISH TABLE WITH DOUBLE SINK AND DOUBLE WASTE HOLE	INDIRECT TO FS-3			--	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	---
K-7	#16	WALK-IN COOLER	INDIRECT TO FS-3			--	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	
K-8	#17	WALK-IN FREEZER	INDIRECT TO FS-3			--	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	
K-9	#19	STEAM KETTLE	INDIRECT TO FS-3			1/2"	1/2"	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	1
K-10	#27	PRE-RINSE UNIT	--	--	--	1/2	1/2	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	---
K-11	#28	DOUBLE SINK MIXING FAUCET	--	--	--	1/2	1/2	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	---
K-12	#3	FOODWASTE DISPOSER (2-HP)	--	--	--	1/2	--	--	PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN & INSTALLED BY PLUMBING CONTRACTOR. SEE KITCHEN EQUIPMENT PLANS FOR DETAILS AND REQUIREMENTS OF KITCHEN EQUIPMENT.	1

NOTES:

1. PROVIDE WITH LINE-SIZED REDUCED PRESSURE BACKFLOW PREVENTER.
2. KITCHEN EQUIPMENT SUPPLIER TO PROVIDE WITH WATER FILTER.
3. ROUTE HOT WATER THROUGH BOOST HEATER THEN TO DISHWASHER.

GAS SIZING CHART

SYMBOL	INPUT (MBH)	RUNOUT SIZE (2PSI) (INCHES)	EQUIPMENT CONNECTION SIZES (7" WC) (INCHES)
FUTURE KITCHEN	500	1"	1/2"
ROOFTOP UNIT (RTU-1A)	198	3/4"	3/4"
ROOFTOP UNIT (RTU-1B)	198	3/4"	3/4"
ROOFTOP UNIT (RTU-2A)	220	3/4"	3/4"
ROOFTOP UNIT (RTU-2B)	220	3/4"	3/4"
BOILER (B-1)	725	1"	1-1/4"
BOILER (B-2)	725	1"	1-1/4"
KITCHEN WATER HEATER WH-6	199	1/2"	3/4"
TOTAL	2,985	EQUIVALENT LENGTH = 150 FT PRESSURE = 2 PSI MAIN SIZE = 1-1/2"Ø	

NOTE: GAS SIZES TO EQUIPMENT ARE AS NOTED IN SCHEDULE ABOVE. ROUTE NOTED (2PSI) GAS LINE TO GAS EQUIPMENT. PROVIDE GAS COCK AND PRESSURE REGULATOR (2 PSI-7" WC) SIZED FOR GAS LOAD AT EACH PIECE OF EQUIPMENT. VENT TO ATMOSPHERE PER MANUFACTURERS RECOMMENDATIONS. ROUTE NOTED (7" WC) GAS LINE TO GAS FIRED EQUIPMENT WITH GAS COCK AND FLEX CONNECTOR AT UNIT. SEE GAS CONNECTION DETAILS ON SHEET P5.1.

PLUMBING CALCULATIONS SUMMARY

Musgrove Engineering, P.A.
234 S. Whisperwood Way, Boise, Idaho 83709
Plumbing Calculations Summary

Date: 2/18/2022
Job #: 21-422 Computed By: CD
Job Name: Jerome Elementary School Checked By: BC

Quantity	Fixture	Description	FU per Fixture Drainage	FU per Fixture Water	HW GPH per Fixture
5	DF-1	Drinking Fountain	0.5	0.5	--
3	DW-1	Dishwasher	2	1.5	75
5	EYE-1	Emergency Eyewash	2	1	--
	EYE-2	Emergency Shower			
10	FD-1	Floor Drain (2")	2	--	--
3	FD-2	Floor Drain (4")	8	--	--
	FS-1	Floor Sink (6")			
4	FS-2	Floor Sink (10")	8	--	--
8	HB-1	Hose Bibb	--	2.5	--
29	LAV-1	Lavatory	2	1	15
36	S-1	Sink (kitchen/laundry/bar)	2	2	10
10	S-2	Sink (food waste/spec. purpose)	3	2	20
2	SHR-1	Shower	2	2	225
5	SS-1	Service Sink	3	3	20
	TD-1	Trench Drain (6" wide)			
	TD-2	Trench Drain (10" wide)			
	TUB-1	Bath tub or combo shower			
12	U-1	Urinal	2	See Note 4	--
2	WB-1	Wall Box - Ice Maker	--	1	--
1	WB-2	Wall Box - Wash Machine	3	4	20
5	WC-1	Water Closet (Flush Tank)5	4	2.5	--
41	WC-2	Water Closet (Flush Valve)5	4	See Note 4	--
8	YH-1	Yard Hydrant	--	2.5	--
	Other	Other			

Hot Water Building Usage Type: School

Water Main Sizing

P = Pressure in street main (PSI)	62	(PSI)
H = Height to highest fixture above street (ft.)	15	(ft.)
F = Minimum pressure required at fixture (PSI)	22	(PSI)
Flush Valves in system?	Yes	
Total Water Fixture units	763.5	
Total GPM for building	177.62	(GPM)
Pressure loss in meter (PSI)	4	(PSI)
Pressure loss in backflow device (PSI)	0	(PSI)
M = Pressure loss in meter and Backflow device (PSI)	4	(PSI)
Length from meter to furthest fixture (ft.)	450	(ft.)
L = Total equivalent length + 50% safety factor (ft.)	675	(ft.)
Q = Friction loss (PSI)	4.4	(PSI)
Water Service Main Size:	**3**	
Water Meter Size:	**3**	(in.)

Water Heater Sizing

a. Total GPH	1790	(GPH)
b. Demand Factor (Table 10)	0.4	
c. Demand (a x b)	716	(GPH)
d. Storage Capacity Factor (Table 10)	1	
e. Storage (c x d)	716	(gal.)
f. Cold Water Temperature, standard = 40 (˚F)	40	(˚F)
g. Water Heater Output Temperature, standard = 120 (˚F)	120	(˚F)
h. Temperature Difference (˚F)	80	(˚F)
i. BTUH Output (if gas water heater)	477715.2	(BTUH)
j. KW Output (if electric water heater)	140	(KW)
Selection: Manufacturer	0	
Model	0	
k. Storage (Gallons)	0	(gal.)
l. Heat Output (BTUH or KW)	0	
m. Recovery (GPH)	0	(GPH)
Pipe Size: Total hot water fixture units	113.5	
Hot water GPM	46.4	(GPM)
Hot Water Branch Size	2	

Waste Line

Depth of first fixture (in.)	18	(in.)
Distance from furthest fixture to civil connection (ft.)	500	(ft.)
Additional drop in elevation at OI-1 or other fixture (in.)	0	(in.)
Slope (in./ft.)	1/8	(in./ft.)
Drainage F.U. total	484 1/2	
Size of main waste line	**6**	
Invert elevation at civil connection (in.)	**80 1/2**	(in.)

Storm Drainage

Slope of storm drain piping (in./ft.)	1/8	(in./ft.)
Rainfall rate (in./hr.)	2	(in./hr.)

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PROFESSIONAL ENGINEER LICENSED 16683 2/18/2022 STATE OF IDAHO CHRISTOPHER DYKE

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: Author
CHECKED BY: Checker

BID SET

DRAWING NO.:
P7.2
PLUMBING SCHEDULES

ELECTRICAL LEGEND - LIGHTING

REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.

- DOUBLE FACE EXIT SIGN, CEILING MOUNTED, PROVIDE UNSWITCHED CONDUCTOR.
- WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
- WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
- 1'X1' LIGHT FIXTURE.
- 1'X1' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- TRACK LIGHT
- 1'X4' LIGHT FIXTURE.
- 1'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- 2'X4' LIGHT FIXTURE.
- 2'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- 2'X2' LIGHT FIXTURE.
- 2'X2' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
- DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- ROUND LIGHT FIXTURE
- ROUND EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- POLE LIGHT 1 HEAD WITH POLE
- TIME CLOCK
- PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
- OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED
- LED DRIVER
- EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
- EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
- XXX INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
- EXTERIOR WALL PACK
- EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

DEVICES

- S — SWITCH, TYPE AS INDICATED. +46"AFF
  - 2 DOUBLE POLE
  - 3 3-WAY
  - 4 4-WAY
  - K KEYED
  - P PILOT LIGHT
  - D DIMMER
  - HP HORSEPOWER RATED
  - TO THERMAL OVERLOAD
  - LV LOW VOLTAGE
  - OS OCCUPANCY SENSOR
  - OR LOW VOLTAGE, MOMENTARY OVERRIDE
  - VS VACANCY SENSOR
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S_{OS} DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S_{OS} OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
- SINGLE CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT SINGLE CONVENIENCE OUTLET
- DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
- USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FOURPLEX CONVENIENCE OUTLET. +18"AFF UNO
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
- CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
- FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
- FLOOR MOUNTED JUNCTION BOX
- JUNCTION BOX
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- HC WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
- COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
- FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
- NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
- T XX THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
- POWER POLE - DUAL CHANNEL
- T TRANSFORMER
- PANELBOARD. SEE SCHEDULE FOR TYPE.
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET FLUSH MOUNTED
- SURFACE MULTI-OUTLET RACEWAY
- # / # MECHANICAL EQUIPMENT CALL OUT
- # KITCHEN EQUIPMENT CALLOUT

ONE LINE

- DELTA WYE TRANSFORMER UNO
- # PANEL NAME VOLTAGE PHASE — PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- ##A / #P — CIRCUIT BREAKER, SIZE AND POLES INDICATED
- ##A — FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- ##A / #P — INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- ##A / #P — FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- ##A / #P — DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
- 125A 3P — INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
- 125A 3P — INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO
- GFP — GROUND FAULT PROTECTION
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION
- LSIGR — ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): 'L'-LONG TIME 'S'-SHORT TIME 'I'-INSTANTANEOUS 'G'-GROUND FAULT 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
- GROUND
- ST — SHUNT TRIP COIL
- M — MOTOR
- 100A 3P — DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
- OVERHEAD SERVICE DROP
- GENERATOR SET, MAIN BREAKER SIZE INDICATED
- AUTOMATIC TRANSFER SWITCH (ATS)
- METER AND BASE
- NEUTRAL
- T — DRY TYPE TRANSFORMER
- PAD MOUNT TRANSFORMER

FIRE ALARM

- F — PULL STATION, +44" AFF WITH PRE-ALARM COVER
- FH — FIRE ALARM HORN, +84" AFF UNO
- F 15 — FIRE ALARM STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- FH 15 — FIRE ALARM HORN/STROBE +84" AFF, UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- FB — FIRE ALARM BELL, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- FH — FIRE ALARM CHIME, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- FH 15 — FIRE ALARM CHIME/STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- F — SPEAKER STROBE, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- EOL — END OF LINE RESISTOR
- FS — FLOW SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- TS — TAMPER SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- PS — PRESSURE SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- FSA — FIRE SYSTEM ANNUNCIATOR, FLUSH MOUNTED +54"UNO
- PIV — POST INDICATOR VALVE, PROVIDE MONITOR MODULE AS REQUIRED
- DH — ELECTROMAGNETIC DOOR HOLDER
- R — RELAY
- CM — CONTROL MODULE
- MM — MONITOR MODULE
- FIRE ALARM KNOX BOX
- FIRE ALARM CONTROL PANEL
- NAC EXTENDER PANEL
- F — FIRE/SMOKE DAMPER
- F — LED INDICATOR LIGHT, CEILING MOUNTED UNO
- F_T — LED INDICATOR LIGHT WITH TEST SWITCH, CEILING MOUNTED UNO
- SD — DUCT-MOUNTED SMOKE DETECTOR
- F # — SMOKE DETECTOR, CEILING MOUNTED UNO
  - H HEAT
  - I IONIZATION
  - ID IN DUCT
  - P PHOTOELECTRIC
  - R RELAY
  - WG PROVIDE PROTECTIVE WIRE GUARD
- BS,BR — BEAM DETECTOR, SENDER & RECEIVER

COMMUNICATIONS

- JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- #D,#T — TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
- #D,#T — FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- IC — INTERCOM SYSTEM CALL BUTTON. +46" UNO.
- SP — CEILING MOUNTED SPEAKER WITH BACKBOX
- SP — WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- V — VOLUME CONTROL, +46" UNO
- TV — TELEVISION OUTLET, +18" AFF UNO, PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE
- TV — CEILING MOUNTED TELEVISION OUTLET
- TTB — TELEPHONE TERMINAL BOARD
- CT-XX — CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
C	CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY. PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
(D)	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
PROVIDED/ PROVIDE BY INSTALLED/ INSTALL	PROVIDE AND INSTALL / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL GENERAL NOTES

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL. SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.

D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.

F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

G. **ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12**

H. INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.

I. CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. COORDINATE WITH OTHER SITE DISCIPLINES.

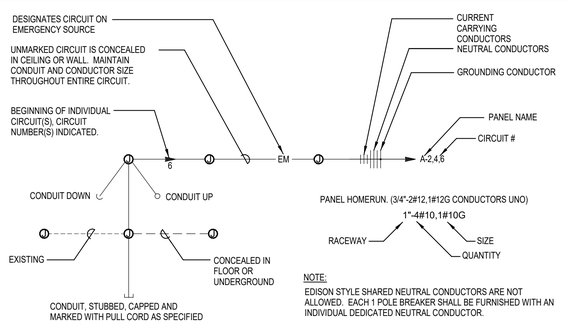
J. SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO ROUGH-IN.

K. REFER TO POLE BASE DETAIL FOR SITE LIGHTING POLE BASE REQUIREMENTS.

L. ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE REFER TO TRENCHING DETAIL.

ELECTRICAL SHEET INDEX

CIRCUITING SYMBOLS



NOTE:
EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL DEDICATED NEUTRAL CONDUCTOR.

SECURITY

- CCTV CAMERA POWER SUPPLY
- CCTV SYSTEM POWER SUPPLY
- ADJUSTABLE CAMERA (PAN/TILT/ZOOM)
- FIXED CAMERA
- CAMERA IN OUTDOOR HOUSING
- ADJUSTABLE CAMERA (PAN/TILT/ZOOM) IN OUTDOOR HOUSING
- C — CCTV OUTLET, +18" UNO
- C — CEILING MOUNTED CCTV OUTLET
- K — SECURITY SYSTEM KEYPAD CONTROLLER COORDINATE BOX SIZE AND MUDRING WITH VENDOR
- CR — CARD READER
- M — CEILING MOUNTED MOTION SENSOR
- +80" M — WALL MOUNTED MOTION SENSOR, MOUNTING HEIGHT INDICATED
- PANIC BUTTON - MOUNTED UNDER COUNTER

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

REFER TO SHEET M0.2 FOR ENERGY MODEL SHOWING COMPLIANCE WITH 2018 IECC BY THE PERFORMANCE BASED COMPLIANCE METHOD

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PROFESSIONAL ENGINEER REGISTERED 10389 pe 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
1

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E0.0
ELECTRICAL COVER SHEET

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PAD MOUNTED TRANSFORMER, PAD AND METER BY IDAHO POWER COMPANY.
2. UNDERGROUND SECONDARY. RE: ONE-LINE DIAGRAM.
3. (1)4" CONDUIT FOR PHONE SERVICE, (1)2" CONDUIT FOR CATV SERVICE AND (1)4" CONDUIT FOR FIBER OPTIC CABLE SERVICE. COORDINATE INSTALLATIONS REQUIREMENTS WITH UTILITIES. STUB CONDUITS 12' ABOVE FLOOR AT 'TTB' AND STUB CONDUITS TO NEAREST TELEPHONE UTILITY PEDESTAL. COORDINATE UTILITY LOCATION PRIOR TO ROUGH-IN. PROVIDE CONDUIT AS REQUIRED. MARK LOCATION WITH MONUMENT MARKER. PROVIDE PULL-LINE WITH EACH CONDUIT.
4. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
5. FLOOD LIGHT FOR MAIN ENTRANCE BUILDING CANOPY SIGNAGE MOUNTED ON LIGHT POLE. COORDINATE FLOOD LIGHT MOUNTING WITH LIGHT POLE SUPPLIER TO BE COMPATIBLE WITH MOUNTING TYPE.
6. FLOOD LIGHT FOR FLAG POLE MOUNTED ON LIGHT POLE. COORDINATE FLOOD LIGHT MOUNTING WITH LIGHT POLE SUPPLIER TO BE COMPATIBLE WITH MOUNTING TYPE.

1 ELECTRICAL SITE PLAN
1" = 40'-0"

NORTH

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N. 100 E. Jerome, Idaho

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DRAWN BY: AN
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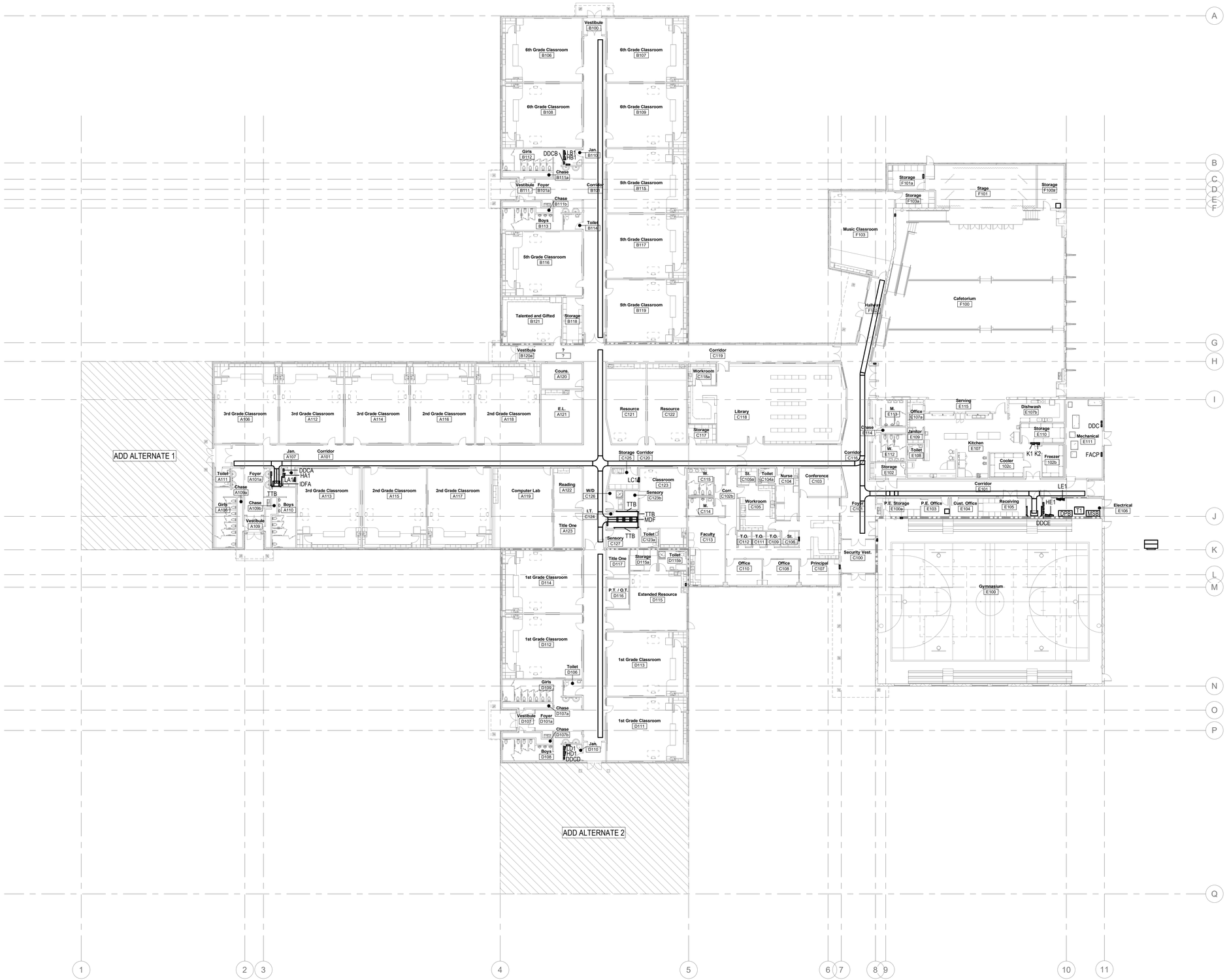
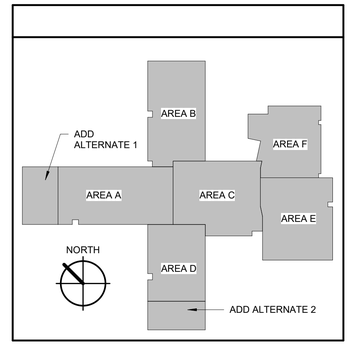
BID SET

DRAWING NO.:
E1.0
ELECTRICAL SITE PLAN



1 ELECTRIAL OVERALL PLAN
1" = 20'-0"



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Jerome School District No. 261
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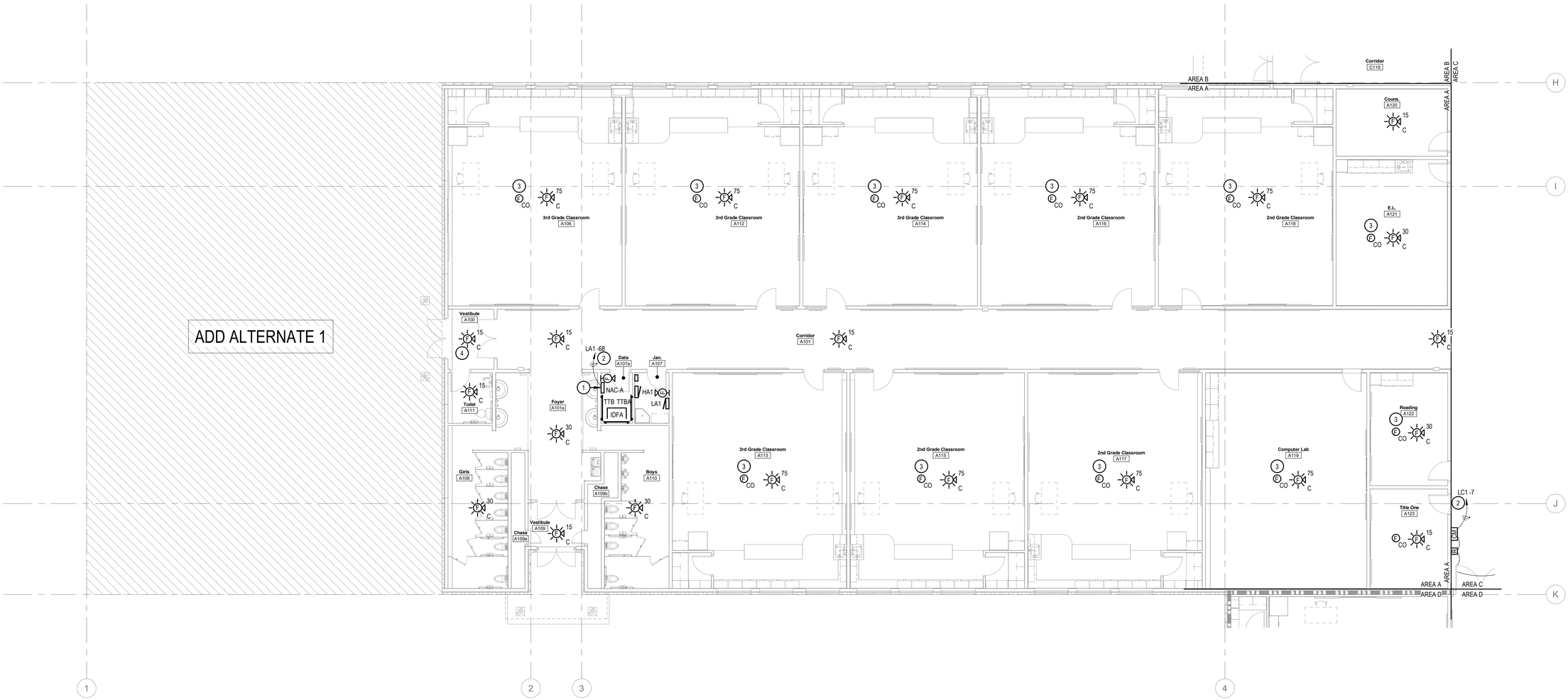
CHECKED BY: KL

BID SET

DRAWING NO.:

E2.1
OVERALL ELECTRICAL PLAN



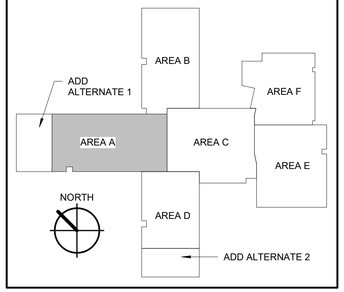
1 FIRE ALARM PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NAC EXTENDER AND AMPLIFIER(S) AS REQUIRED.
2. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
3. CARBON MONOXIDE SENSOR. PROVIDE AND INSTALL A SYSTEM SENSOR C01224 CARBON MONOXIDE SENSOR WITH REAL TEST TECHNOLOGY OR APPROVED EQUAL. CONNECT SENSORS TO THE FIRE ALARM SYSTEM AND PROGRAM FOR MONITORING. ACTUATION OF THE CO DETECTOR SHALL CAUSE THE DEVICE TO SOUND ALERT, AND A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM. PROVIDE AND INSTALL ALL CABLING, HARDWARE, RELAYS, AND PROGRAMMING FOR A COMPLETE SYSTEM. SENSOR SHALL NOT BE A COMBINED SMOKE/CO DETECTION DEVICE.
4. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS. REFER TO ADD ALTERNATE FIRE ALARM PLANS FOR LOCATION UNDER ADD ALTERNATE CONDITIONS.

Keyed Plan



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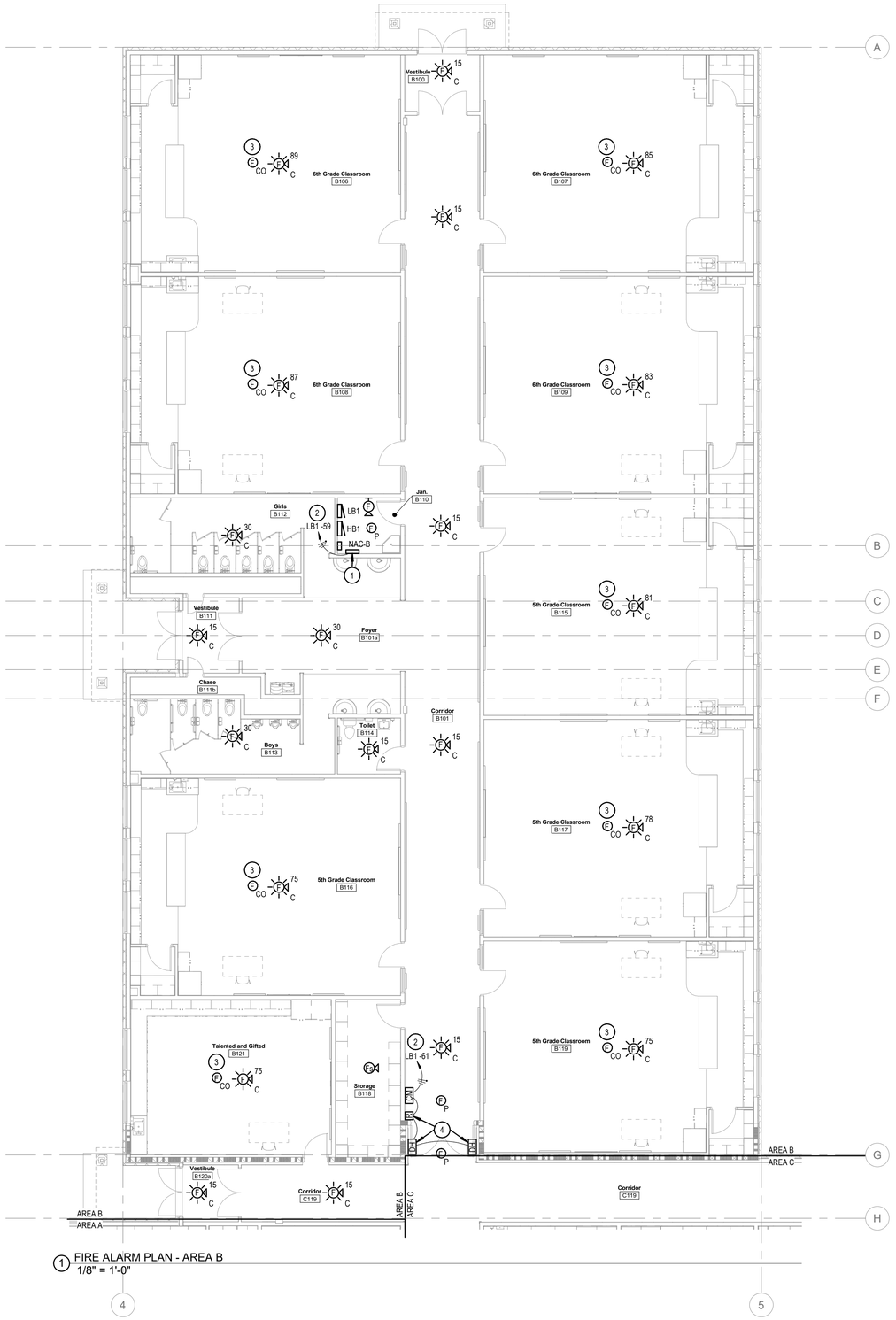
E3.1

FIRE ALARM PLAN – AREA A

KEYED NOTES:

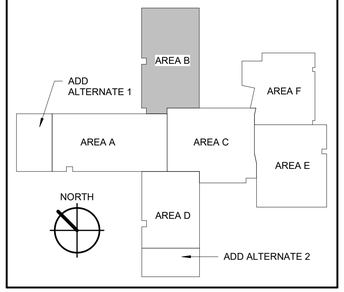
(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NAC EXTENDER AND AMPLIFIER(S) AS REQUIRED.
2. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
3. CARBON MONOXIDE SENSOR. PROVIDE AND INSTALL A SYSTEM SENSOR C01224 CARBON MONOXIDE SENSOR WITH REAL TEST TECHNOLOGY OR APPROVED EQUAL. CONNECT SENSORS TO THE FIRE ALARM SYSTEM AND PROGRAM FOR MONITORING. ACTUATION OF THE CO DETECTOR SHALL CAUSE THE DEVICE TO SOUND ALERT, AND A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM. PROVIDE AND INSTALL ALL CABLING, HARDWARE, RELAYS, AND PROGRAMMING FOR A COMPLETE SYSTEM. SENSOR SHALL NOT BE A COMBINED SMOKE/CO DETECTION DEVICE.
4. PROVIDE MONITOR MODULE AND RELAY FOR DOOR HOLDS. PROGRAM AS REQUIRED TO ALLOW THE FIRE ALARM SYSTEM TO RELEASE FIRE DOORS UPON ACTIVATION OF ADJACENT SMOKE DETECTORS. PROVIDE BACK BOXES, CONDUIT, CONDUCTORS AND ANY ASSOCIATED MATERIALS AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.



1 FIRE ALARM PLAN - AREA B
1/8" = 1'-0"

Keyed Plan



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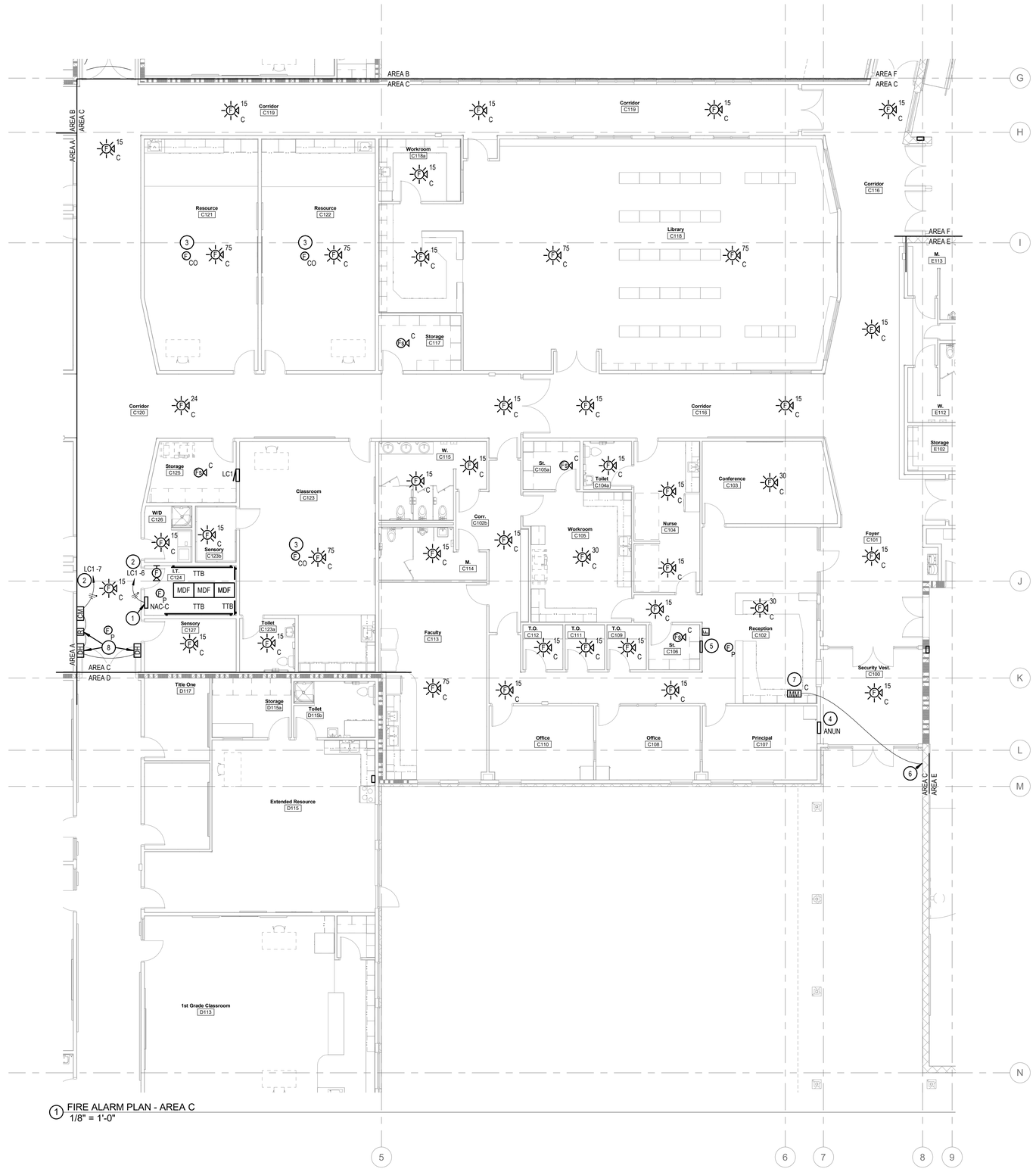
E3.2
FIRE ALARM PLAN – AREA B



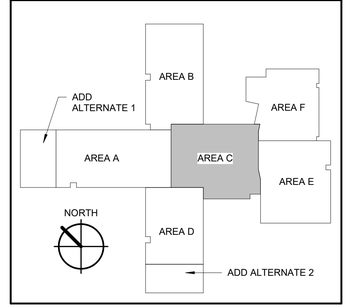
1 FIRE ALARM PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NAC EXTENDER AND AMPLIFIER(S) AS REQUIRED.
2. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
3. CARBON MONOXIDE SENSOR. PROVIDE AND INSTALL A SYSTEM SENSOR C01224 CARBON MONOXIDE SENSOR WITH REAL TEST TECHNOLOGY OR APPROVED EQUAL. CONNECT SENSORS TO THE FIRE ALARM SYSTEM AND PROGRAM FOR MONITORING. ACTUATION OF THE CO DETECTOR SHALL CAUSE THE DEVICE TO SOUND ALERT, AND A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM. PROVIDE AND INSTALL ALL CABLING, HARDWARE, RELAYS, AND PROGRAMMING FOR A COMPLETE SYSTEM. SENSOR SHALL NOT BE A COMBINED SMOKE/CO DETECTION DEVICE.
4. FLUSH MOUNTED REMOTE FIRE ALARM ANNUNCIATOR. VERIFY LOCATION WITH AHJ PRIOR TO ROUGH-IN.
5. FLUSH MOUNTED REMOTE FIRE ALARM COMMAND STATION WITH LOCKABLE COVER. VERIFY LOCATION WITH AHJ PRIOR TO ROUGH-IN.
6. KNOX BOX WITH ALARM TAMPER SWITCH. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.
7. MONITOR MODULE FOR KNOX BOX TAMPER SWITCH. PROVIDE 3/4" CONDUIT FROM KNOX BOX TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH AHJ PRIOR TO ROUGH-IN.
8. PROVIDE MONITOR MODULE AND RELAY FOR DOOR HOLDS. PROGRAM AS REQUIRED TO ALLOW THE FIRE ALARM SYSTEM TO RELEASE FIRE DOORS UPON ACTIVATION OF ADJACENT SMOKE DETECTORS. PROVIDE BACK BOXES, CONDUIT, CONDUCTORS AND ANY ASSOCIATED MATERIALS AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.

Keyed Plan



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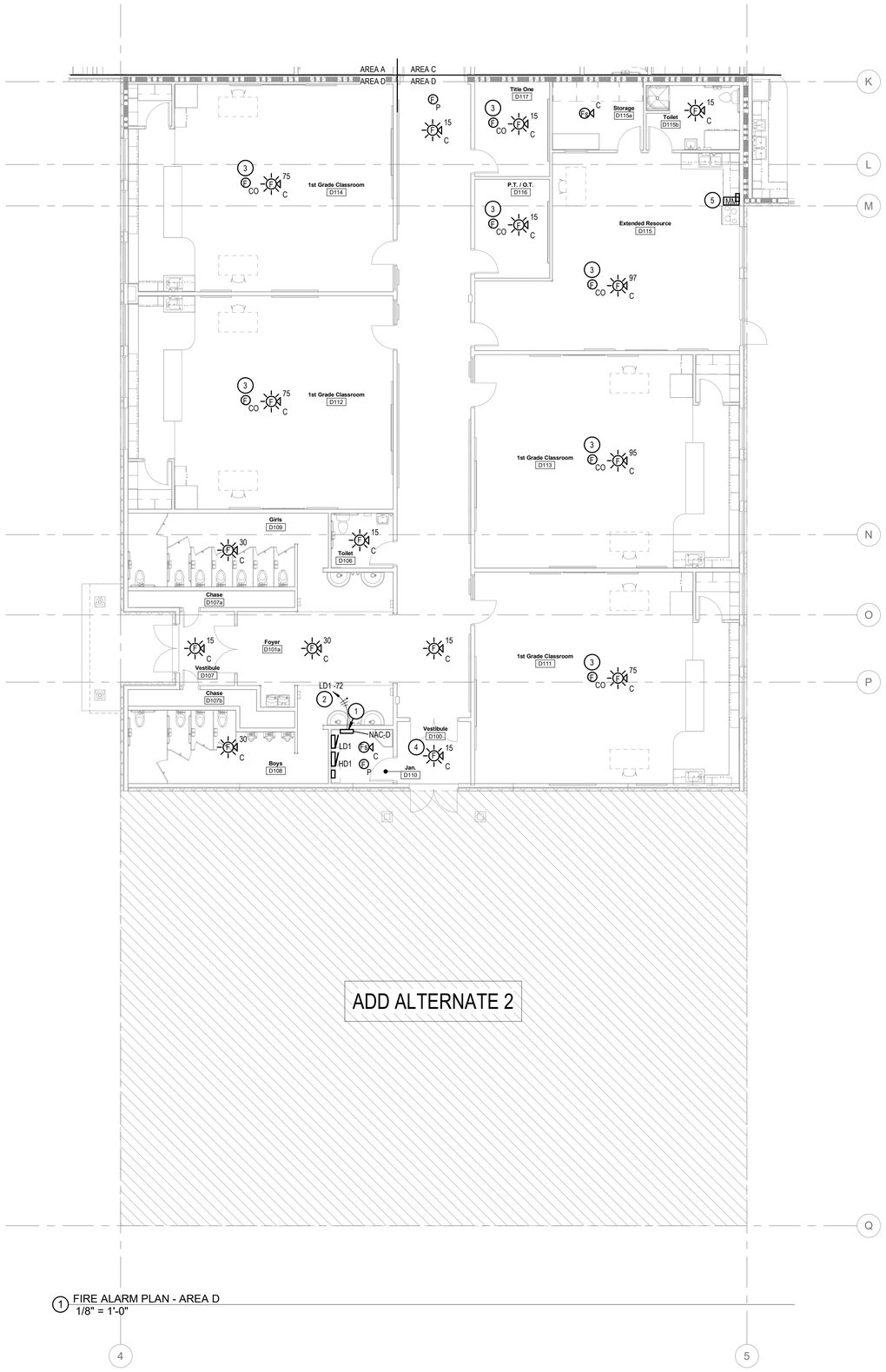
DRAWING NO.:

E3.3
FIRE ALARM PLAN - AREA C



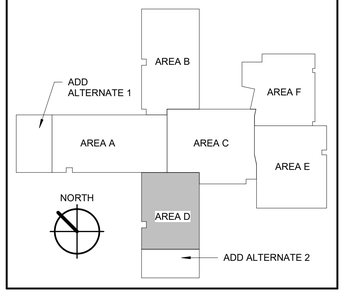
1 FIRE ALARM PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NAC EXTENDER AND AMPLIFIER(S) AS REQUIRED.
2. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
3. CARBON MONOXIDE SENSOR. PROVIDE AND INSTALL A SYSTEM SENSOR C01224 CARBON MONOXIDE SENSOR WITH REAL TEST TECHNOLOGY OR APPROVED EQUAL. CONNECT SENSORS TO THE FIRE ALARM SYSTEM AND PROGRAM FOR MONITORING. ACTUATION OF THE CO DETECTOR SHALL CAUSE THE DEVICE TO SOUND ALERT, AND A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM. PROVIDE AND INSTALL ALL CABLING, HARDWARE, RELAYS, AND PROGRAMMING FOR A COMPLETE SYSTEM. SENSOR SHALL NOT BE A COMBINED SMOKE/CO DETECTION DEVICE.
4. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS. REFER TO ADD ALTERNATE FIRE ALARM PLANS FOR LOCATION UNDER ADD ALTERNATE CONDITIONS.
5. PROVIDE MONITOR MODULE AS REQUIRED FOR RANGE HOOD GUARDIAN SYSTEM AND THE ASSOCIATED PULL STATION. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description | Date
|

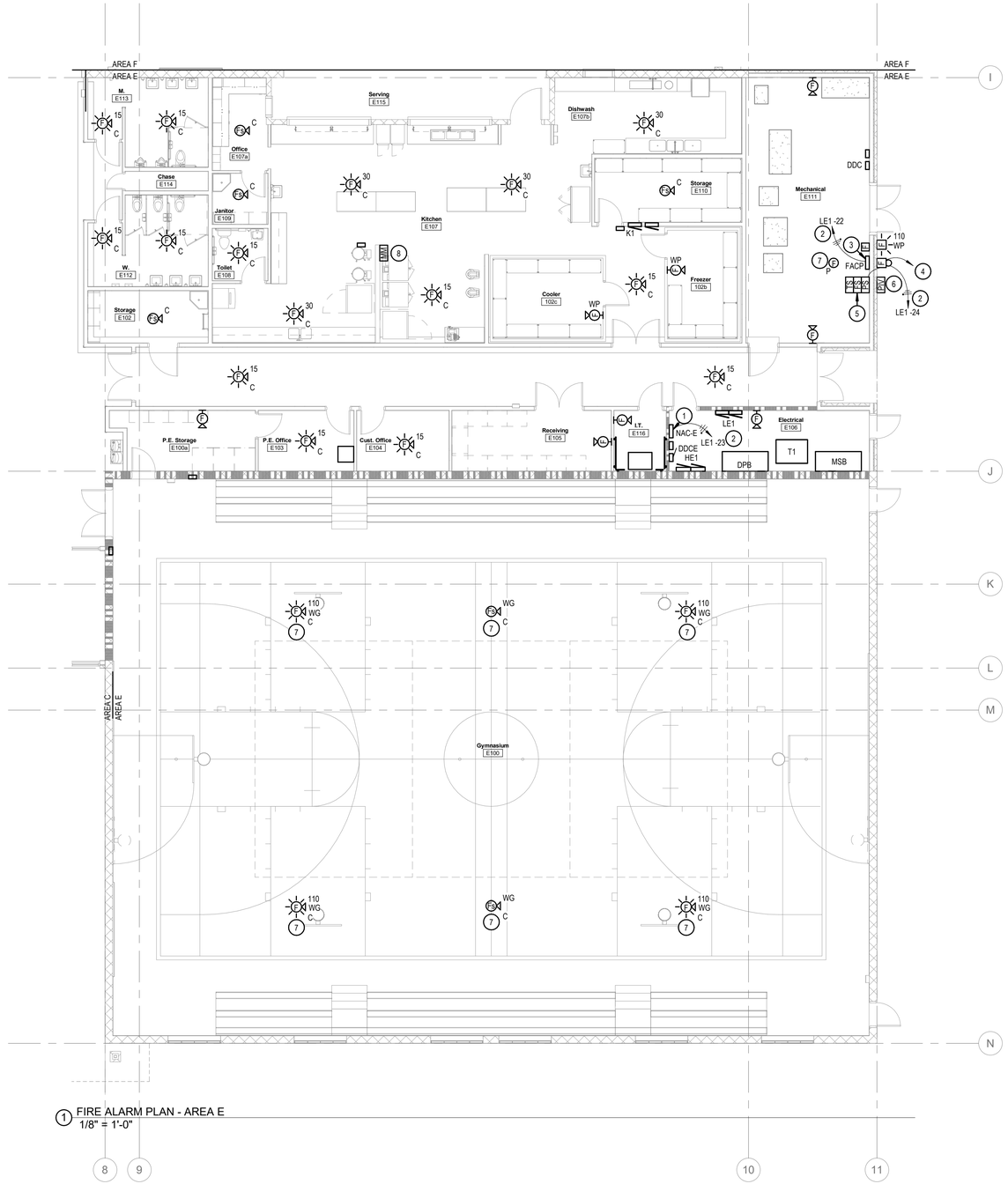
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:
E3.4
FIRE ALARM PLAN – AREA D



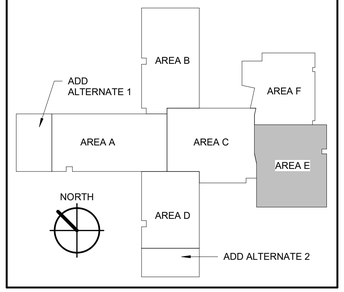
1 FIRE ALARM PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NAC EXTENDER AND AMPLIFIER(S) AS REQUIRED.
2. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
3. FIRE ALARM CONTROL PANEL WITH COMMAND STATION.
4. TO FIRE ALARM CONTROL PANEL.
5. COORDINATE QUANTITY OF TAMPER SWITCHES, FLOW SWITCHES AND PRESSURE SWITCHES WITH FIRE SPRINKLER CONTRACTOR. PROVIDE ALL REQUIRED MONITOR MODULES.
6. COORDINATE LOCATION OF PIV WITH SPRINKLER CONTRACTOR.
7. FIRE ALARM DEVICE TO BE MOUNTED TO BOTTOM OF ROOF JOIST.
8. PROVIDE MONITOR MODULE AS REQUIRED AT THE TYPE-1 HOOD CONTROL PANEL. RE: KITCHEN HOOD CONTACTOR CABINET DETAIL.

Keyed Plan



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2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions	Date
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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

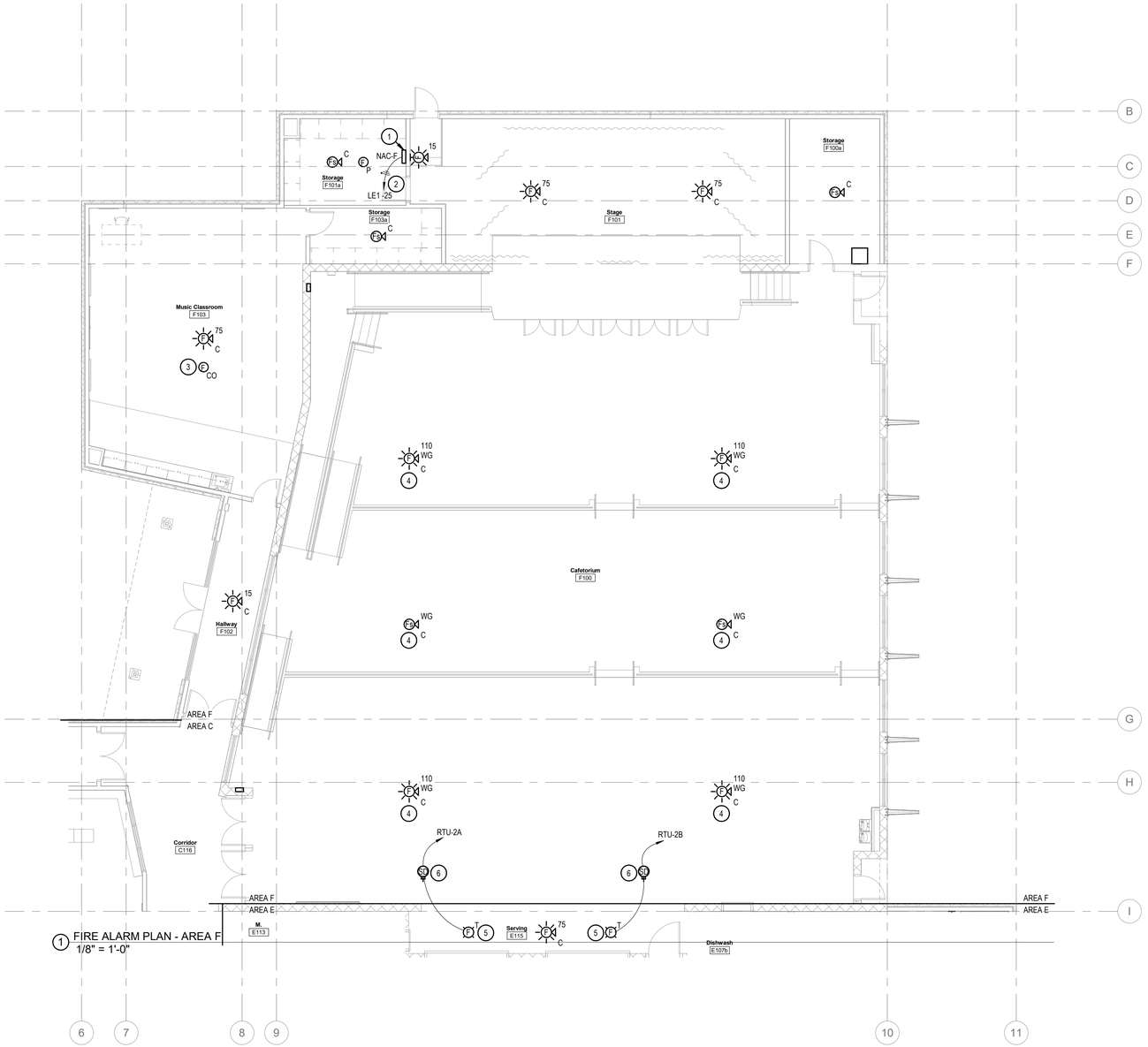
DRAWING NO.:

E3.5
FIRE ALARM PLAN – AREA E

KEYED NOTES:

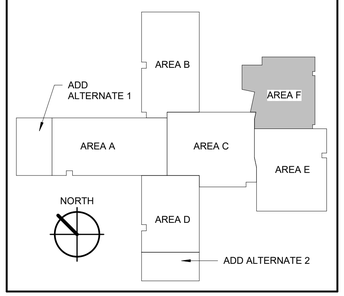
(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NAC EXTENDER AND AMPLIFIER(S) AS REQUIRED.
2. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
3. CARBON MONOXIDE SENSOR. PROVIDE AND INSTALL A SYSTEM SENSOR C01224 CARBON MONOXIDE SENSOR WITH REAL TEST TECHNOLOGY OR APPROVED EQUAL. CONNECT SENSORS TO THE FIRE ALARM SYSTEM AND PROGRAM FOR MONITORING. ACTUATION OF THE CO DETECTOR SHALL CAUSE THE DEVICE TO SOUND ALERT, AND A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM. PROVIDE AND INSTALL ALL CABLING, HARDWARE, RELAYS, AND PROGRAMMING FOR A COMPLETE SYSTEM. SENSOR SHALL NOT BE A COMBINED SMOKE/CO DETECTION DEVICE.
4. FIRE ALARM DEVICE TO BE MOUNTED TO BOTTOM OF ROOF JOIST.
5. MOUNT DUCT DETECTOR INDICATOR LED/ANNUNCIATOR IN CEILING BELOW UNIT. LABEL TO IDENTIFY THE RTU IT IS ASSOCIATED WITH.
6. ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT DUCT DETECTOR. PROVIDE CONNECTION FOR MECHANICAL UNIT SHUT DOWN UPON ACTIVATION OF DUCT DETECTOR. MECHANICAL CONTRACTOR TO MOUNT DUCT DETECTOR IN RETURN SIDE OF DUCT WORK. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.



1 FIRE ALARM PLAN - AREA F
1/8" = 1'-0"

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.

project number: **21-422**

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BID SET

DRAWING NO.:

E3.6

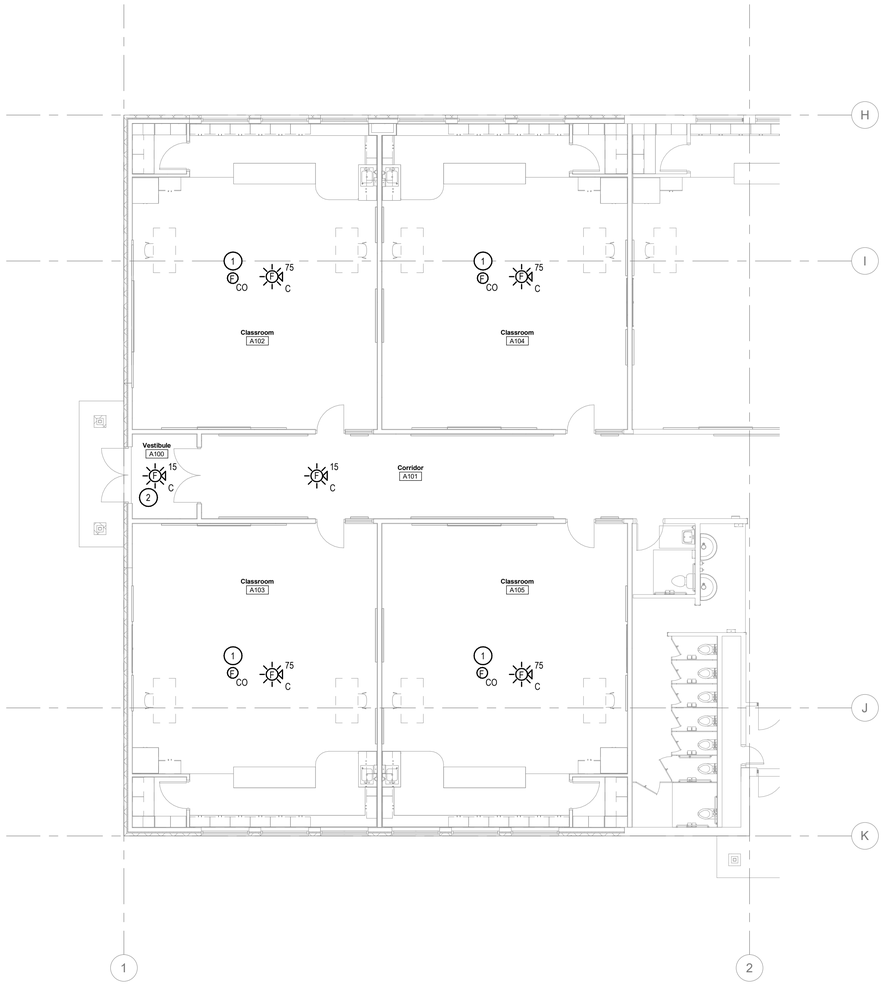
FIRE ALARM PLAN – AREA F

KEYED NOTES:

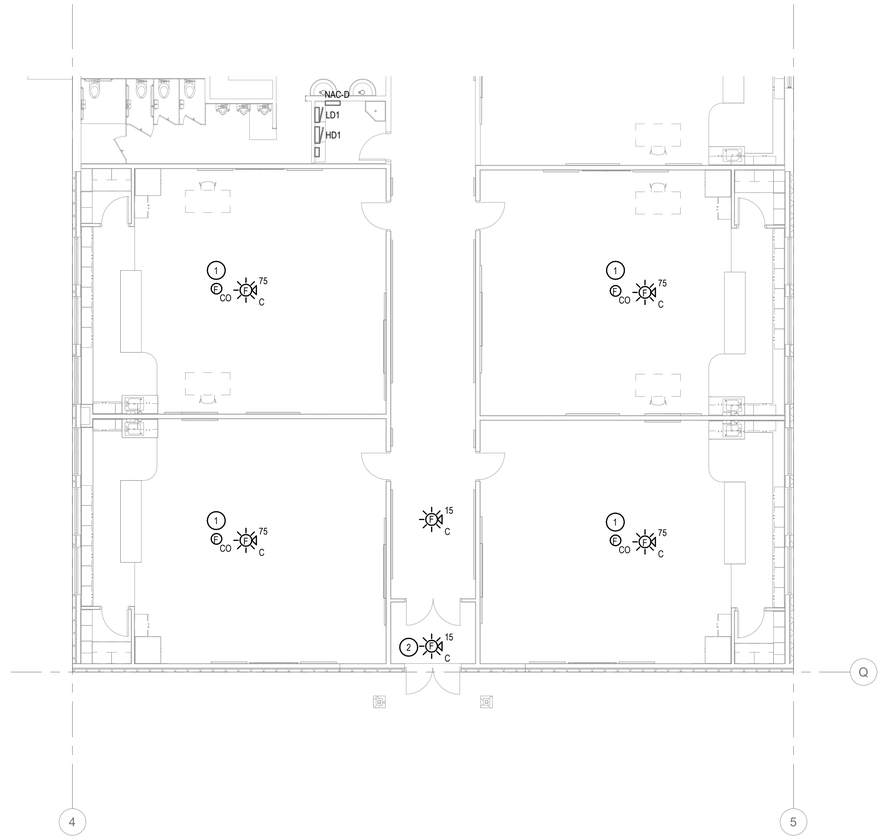
(#) SYMBOL USED FOR CALLOUT

1. CARBON MONOXIDE SENSOR. PROVIDE AND INSTALL A SYSTEM SENSOR C01224 CARBON MONOXIDE SENSOR WITH REAL TEST TECHNOLOGY OR APPROVED EQUAL. CONNECT SENSORS TO THE FIRE ALARM SYSTEM AND PROGRAM FOR MONITORING. ACTUATION OF THE CO DETECTOR SHALL CAUSE THE DEVICE TO SOUND ALERT, AND A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM. PROVIDE AND INSTALL ALL CABLING, HARDWARE, RELAYS, AND PROGRAMMING FOR A COMPLETE SYSTEM. SENSOR SHALL NOT BE A COMBINED SMOKE/CO DETECTION DEVICE.

2. DEVICE IN THIS LOCATION UNDER ADD ALTERNATE CONDITIONS. REFER TO BASE BID CONDITIONS FOR LOCATION UNDER BASE BID CONDITIONS

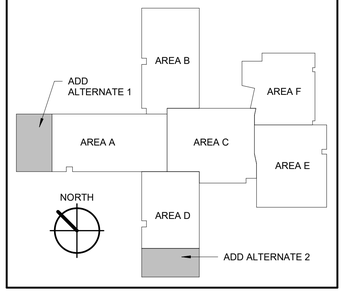


1 FIRE ALARM PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



2 FIRE ALARM PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

Keyed Plan



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CHECKED BY: KL

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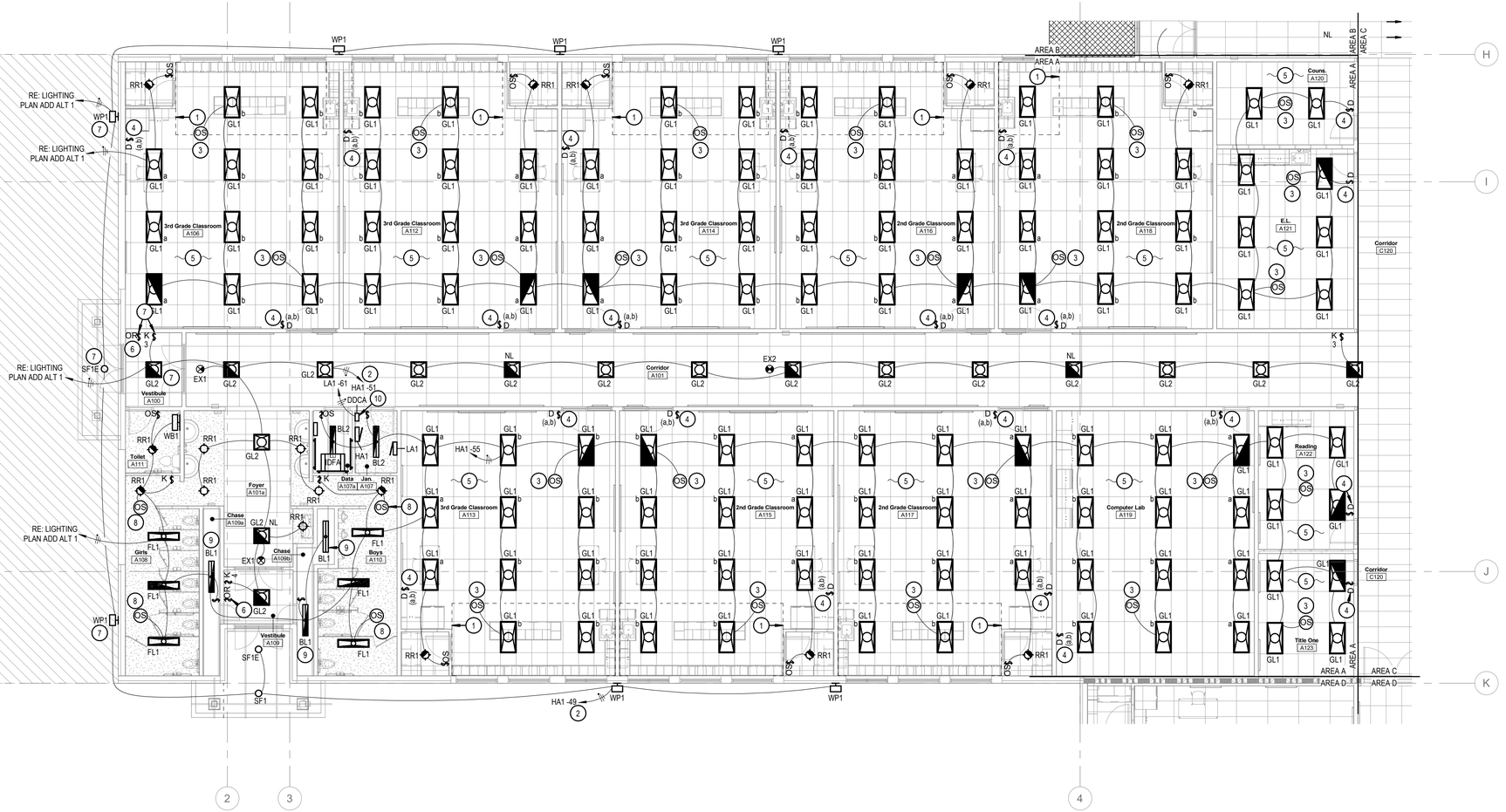
DRAWING NO.:

E3.7
FIRE ALARM PLANS – ADD ALTERNATES 1 & 2

ADD ALTERNATE 1



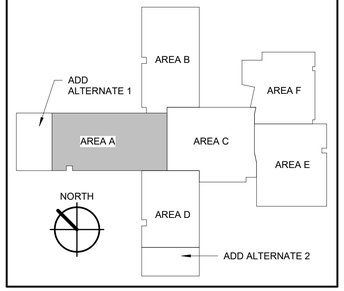
1 LIGHTING PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
3. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
4. 3 BUTTON DIGITAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
5. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER, ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY. AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
6. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 46" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
7. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS. REFER TO ADD ALTERNATE LIGHTING PLANS FOR LOCATION UNDER ADD ALTERNATE CONDITIONS.
8. NON-DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
9. LIGHT FIXTURE LOCATED IN THE PLUMBING CHASE. COORDINATE FINAL LOCATION AND MOUNTING WITH PIPING IN THIS AREA.
10. LIGHTING CONTROL SYSTEM CONTACTOR / RELAY PANEL. PANEL PROVIDED AND PROGRAMMED BY THE DDC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN.

Keyed Plan



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208.336.3443

PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO AUDY LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

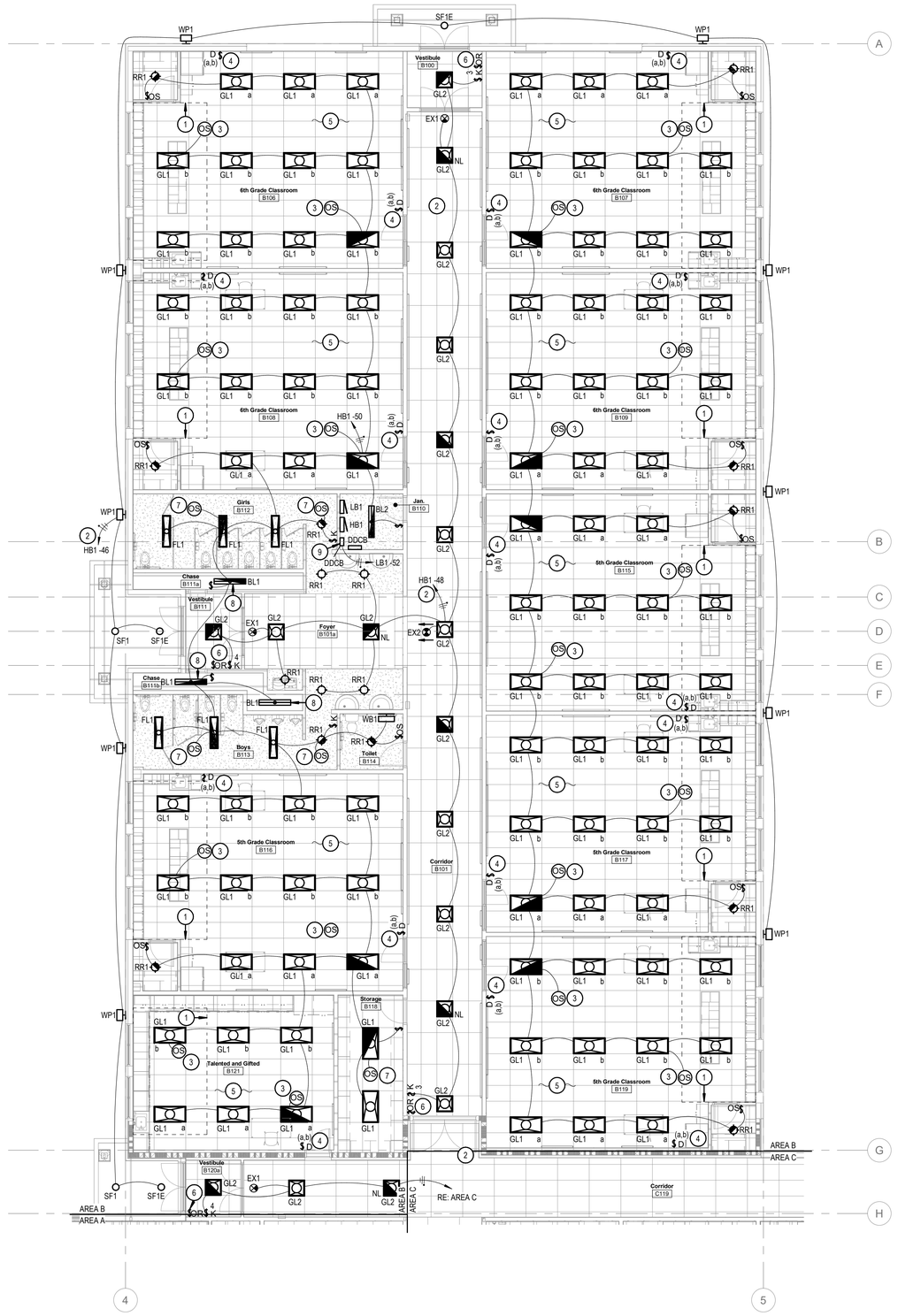
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E4.1
LIGHTING PLAN – AREA A



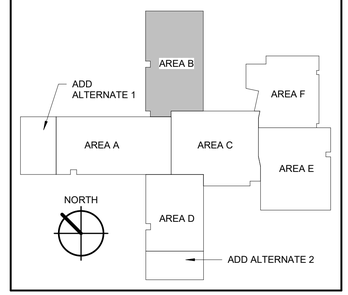
1 LIGHTING PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
3. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
4. 3 BUTTON DIGITAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
5. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER, ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY. AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
6. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 46" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILNG SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
7. NON-DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
8. LIGHT FIXTURE LOCATED IN THE PLUMBING CHASE. COORDINATE FINAL LOCATION AND MOUNTING WITH PIPING IN THIS AREA.
9. LIGHTING CONTROL SYSTEM CONTACTOR / RELAY PANEL. PANEL PROVIDED AND PROGRAMMED BY THE DDC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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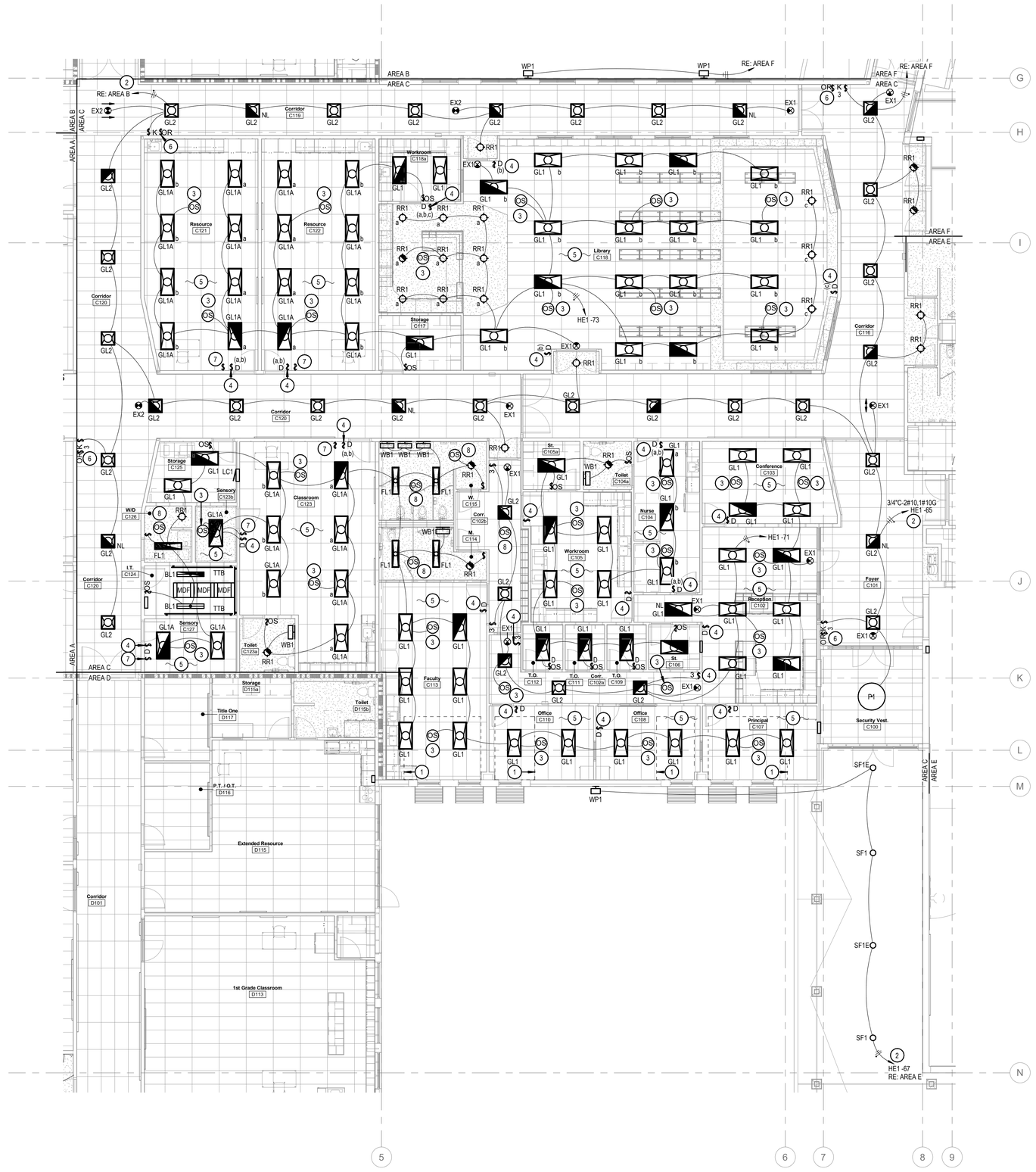
CHECKED BY: KL

BID SET

DRAWING NO.:

E4.2
LIGHTING PLAN - AREA B



1 LIGHTING PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
3. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
4. 3 BUTTON DIGITAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
5. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER, ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY. AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
6. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 46" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILNG SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
7. TUNABLE LIGHTING CONTROL FOR LIGHTING IN THIS ROOM. PROVIDE ALL CONDUIT, BOXES, CONDUCTORS AND DEVICES REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
8. NON-DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.

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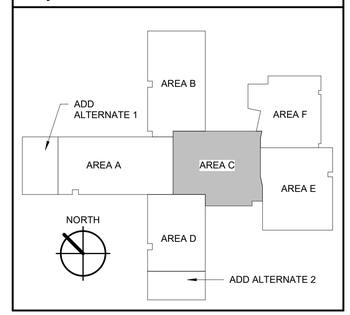

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PROFESSIONAL ENGINEER REGISTERED 10389 12/18/2022 STATE OF IDAHO KURT LECHTENBERG

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project number: 21-422

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

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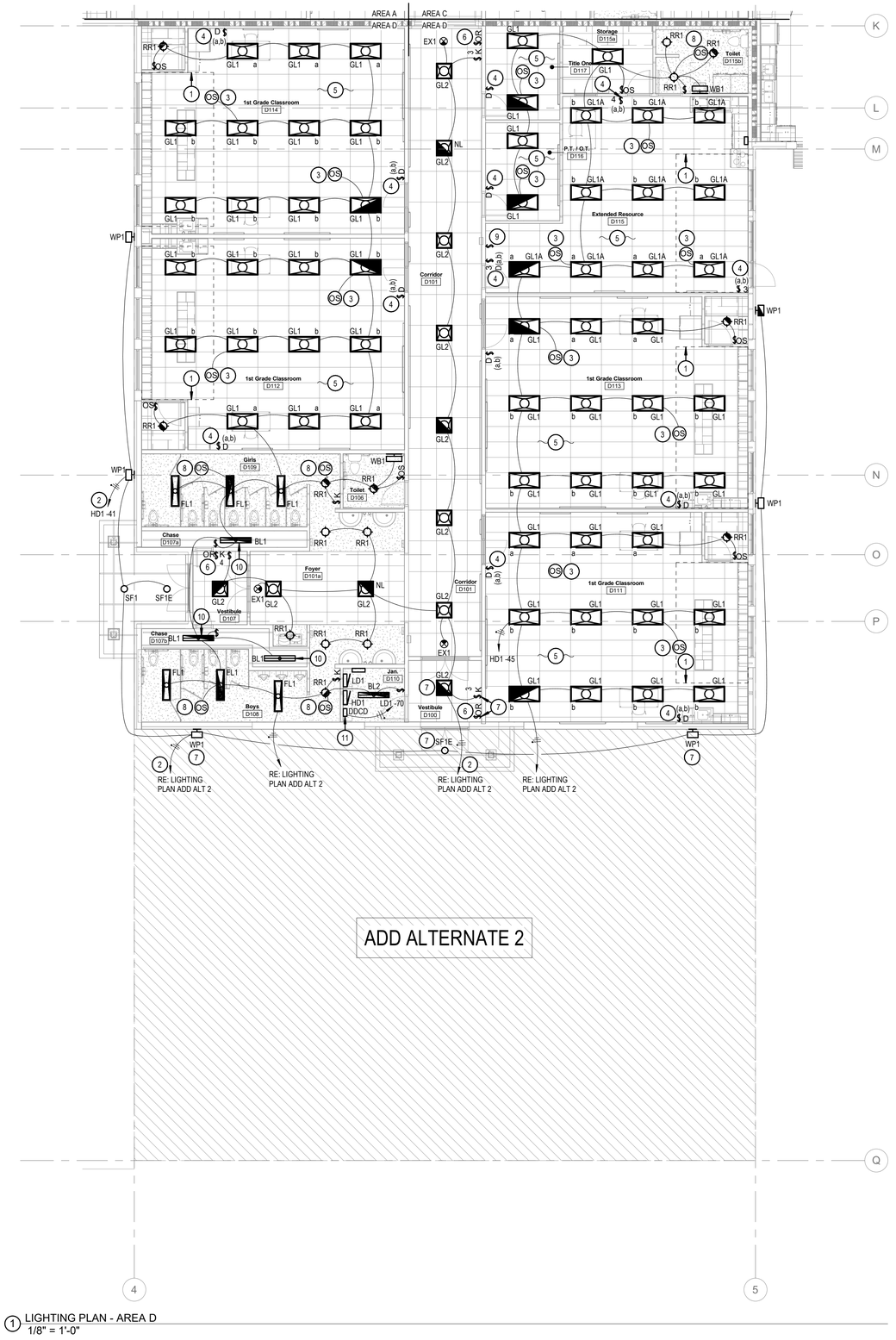
DRAWING NO.:

E4.3
LIGHTING PLAN – AREA C



1 LIGHTING PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
3. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
4. 3 BUTTON DIGITAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
5. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER, ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY. AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
6. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 46" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILNG SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
7. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS. REFER TO ADD ALTERNATE LIGHTING PLANS FOR LOCATION UNDER ADD ALTERNATE CONDITIONS.
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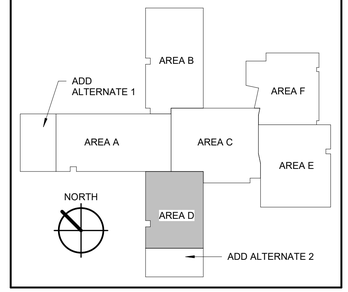
9. TUNABLE LIGHTING CONTROL FOR LIGHTING IN THIS ROOM. PROVIDE ALL CONDUIT, BOXES, CONDUCTORS AND DEVICES REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
10. LIGHT FIXTURE LOCATED IN THE PLUMBING CHASE. COORDINATE FINAL LOCATION AND MOUNTING WITH PIPING IN THIS AREA.
11. LIGHTING CONTROL SYSTEM CONTACTOR / RELAY PANEL. PANEL PROVIDED AND PROGRAMMED BY THE DDC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN.

Keyed Plan



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project number: 21-422

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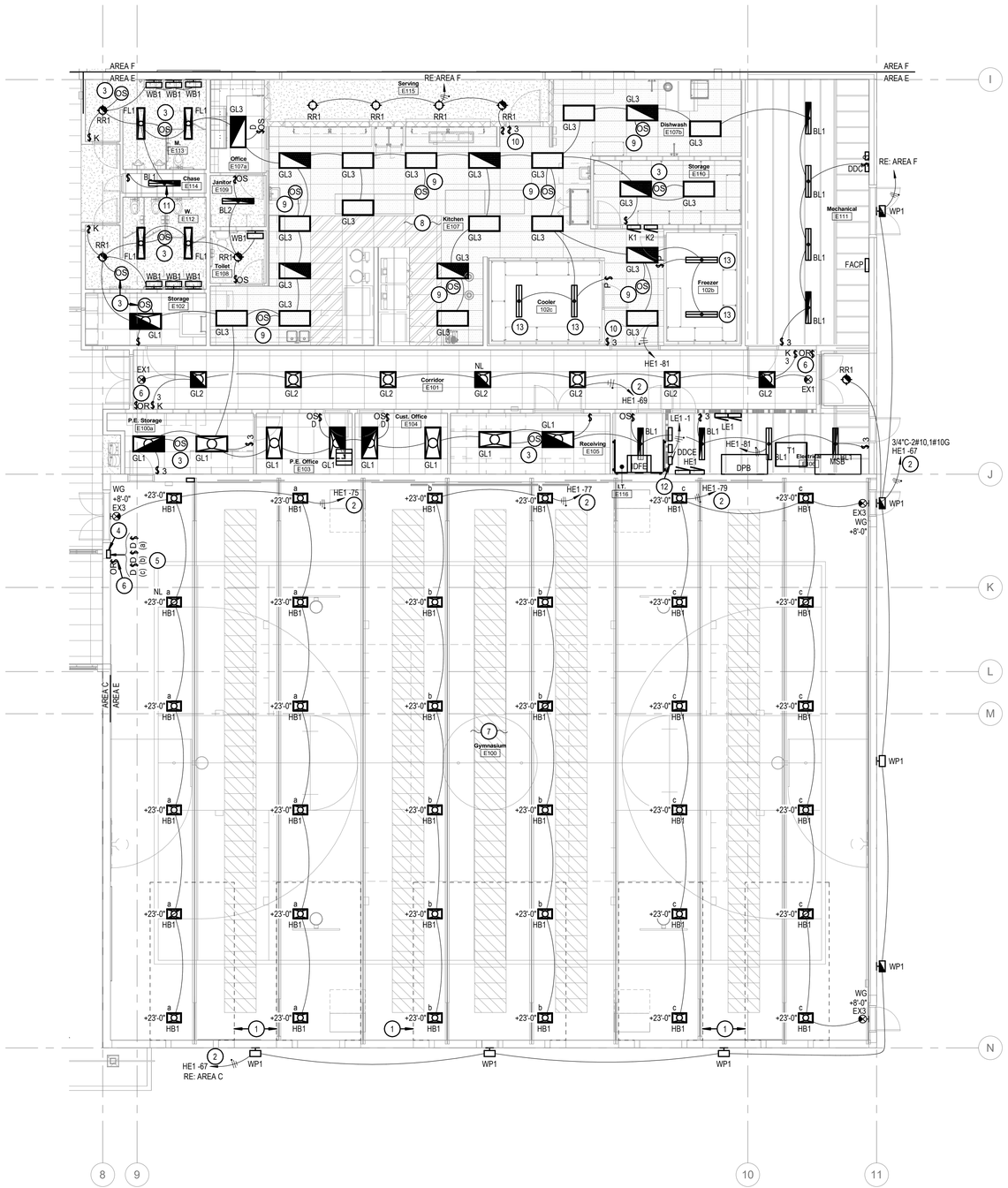
DRAWING NO.:

E4.4
LIGHTING PLAN – AREA D



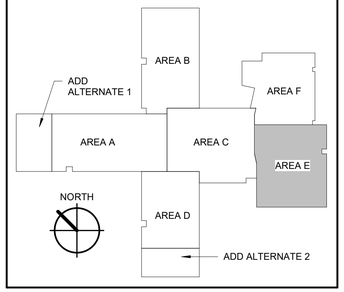
1 LIGHTING PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
3. NON-DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
4. DIGITAL, 0-10V DIMMING LIGHTING SWITCHES FOR THE GYMNASIUM LIGHTING TO BE LOCATED IN A FLUSH MOUNTED ENCLOSURE (HOFFMAN 'ASE' SERIES OR EQUAL) WITH A LOCKABLE HINGED COVER (HOFFMAN 'AFDF' SERIES WITH AN 'ACLFDF' LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL LIGHT SWITCHES INDICATED. THE CENTER OF THIS BOX IS TO BE MOUNTED 46" AFF. SWITCHES SHALL BE COMPATIBLE WITH THE ASSOCIATED LIGHT FIXTURES AND PROVIDE RAISE / LOWER AS WELL AS ON / OFF FUNCTIONS. PROVIDE ALL REQUIRED CABLING. PROVIDE JUNCTION BOXES IN THE ENCLOSURE FOR THE SWITCHES. ALL CONDUCTORS AND CABLING WITHIN THE ENCLOSURE ARE TO BE CONCEALED IN CONDUIT SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM THE ENCLOSURE TO THE BUILDING STRUCTURE. LOCK SHALL BE KEYED TO MATCH THE SCHOOL MASTER KEY SYSTEM. RE: CAFETERIA LIGHT SWITCH ENCLOSURE DETAIL.
5. 3 BUTTON DIGIAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
6. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 46" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
7. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER AND ASSOCIATED DIGITAL DIMMING SWITCHES COMPATIBLE WITH LIGHT FIXTURES. A SINGLE CONTROLLER MAY BE UTILIZED FOR MULTIPLE ZONES AS LONG AS EACH ZONE CAN BE CONTROLLED INDEPENDANTLY. PROVIDE POWER PACKS, RELAYS, CABLING AND PROGRAMMING AS REQUIRED FOR A COMPLETE SYSTEM. TERMINATE AN TEST ALL CABLING.
8. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER AND ASSOCIATED DIGITAL SWITCHES COMPATIBLE WITH LIGHT FIXTURES. A SINGLE CONTROLLER MAY BE UTILIZED FOR MULTIPLE ZONES AS LONG AS EACH ZONE CAN BE CONTROLLED INDEPENDANTLY. PROVIDE POWER PACKS, RELAYS, CABLING AND PROGRAMMING AS REQUIRED FOR A COMPLETE SYSTEM. TERMINATE AN TEST ALL CABLING. RE: CLASSROOM LIGHTING CONTROL DETAIL AS APPLICABLE.
9. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
10. DIGITAL WALL SWITCH(ES) WITH ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH THE ROOM LIGHTING CONTROL SYSTEM.
11. LIGHT FIXTURE LOCATED IN THE PLUMBING CHASE. COORDINATE FINAL LOCATION AND MOUNTING WITH PIPING IN THIS AREA.
12. LIGHTING CONTROL SYSTEM CONTACTOR / RELAY PANEL. PANEL PROVIDED AND PROGRAMMED BY THE DDC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN.
13. LIGHT FIXTURE FURNISHED WITH WALK-IN COOLER OR FREEZER. INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT, BOXES AND CONDUCTORS AS REQUIRED. VERIFY FIXTURE VOLTAGE PRIOR TO ROUGH-IN.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

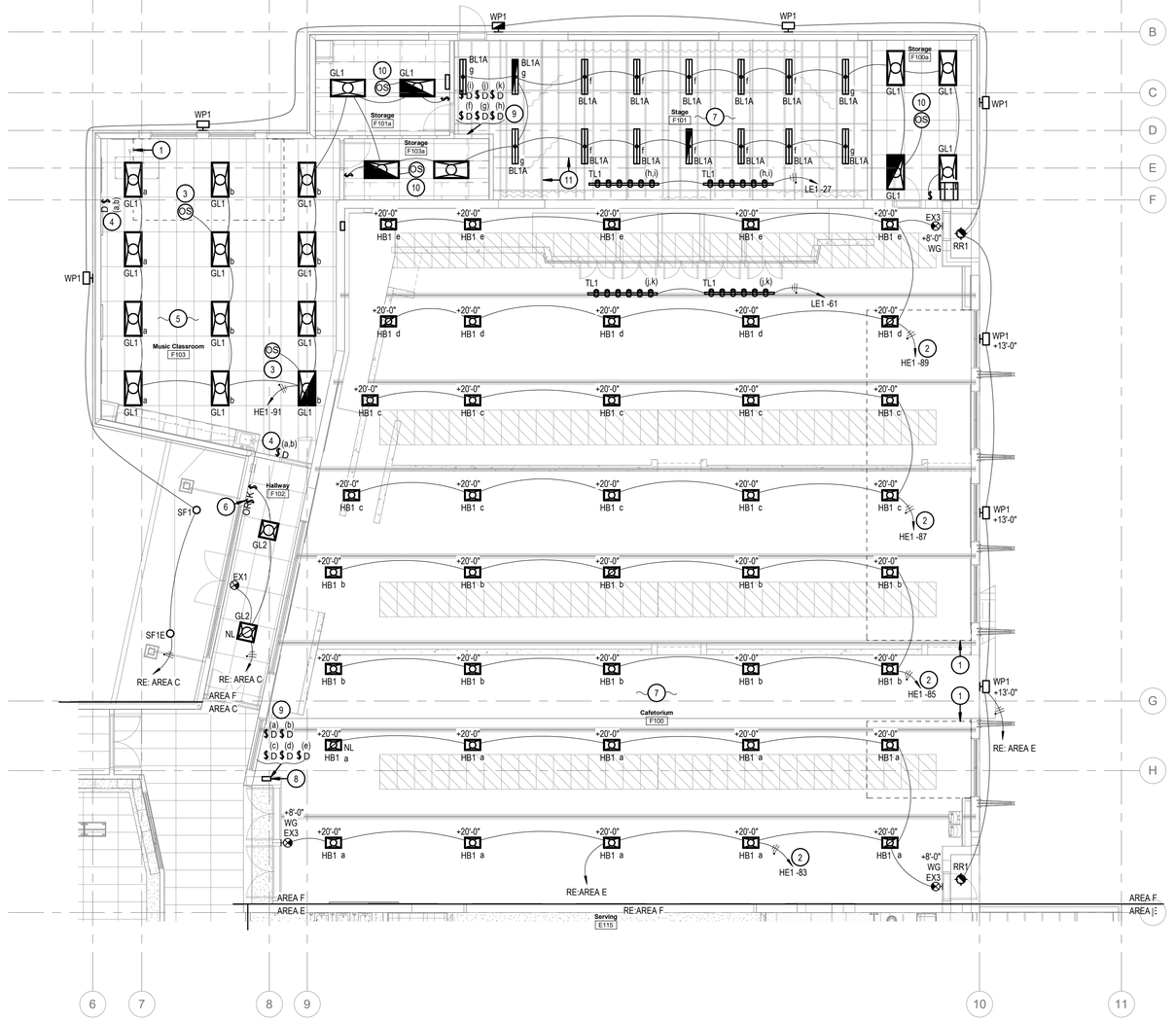
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E4.5
LIGHTING PLAN – AREA E



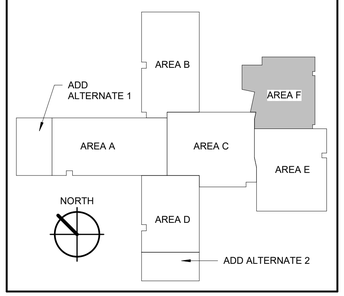
1 LIGHTING PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED LIGHTING CONTROL SYSTEM CONTACTORS. COORDINATE WITH THE BMS CONTRACTOR. RE:LIGHTING CONTROL ZONE SCHEDULE.
3. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
4. 3 BUTTON DIGITAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
5. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER, ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY, AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
6. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 48" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILNG SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
7. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER AND ASSOCIATED DIGITAL DIMMING SWITCHES COMPATIBLE WITH LIGHT FIXTURES. A SINGLE CONTROLLER MAY BE UTILIZED FOR MULTIPLE ZONES AS LONG AS EACH ZONE CAN BE CONTROLLED INDEPENDANTLY. PROVIDE POWER PACKS, RELAYS, CABLING AND PROGRAMMING AS REQUIRED FOR A COMPLETE SYSTEM. TERMINATE AN TEST ALL CABLING.
8. DIGITAL 0-10V DIMMING LIGHTING SWITCHES FOR THE CAFETORIUM LIGHTING TO BE LOCATED IN A FLUSH MOUNTED ENCLOSURE (HOFFMAN 'ASE' SERIES OR EQUAL) WITH A LOCKABLE HINGED COVER (HOFFMAN 'AFDF' SERIES WITH AN 'ACLFDF' LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL LIGHT SWITCHES INDICATED. THE CENTER OF THIS BOX IS TO BE MOUNTED 48" AFF. SWITCHES SHALL BE COMPATIBLE WITH THE ASSOCIATED LIGHT FIXTURES AND PROVIDE RAISE / LOWER AS WELL AS ON / OFF FUNCTIONS. PROVIDE ALL REQUIRED CABLING. PROVIDE JUNCTION BOXES IN THE ENCLOSURE FOR THE SWITCHES. ALL CONDUCTORS AND CABLING WITHIN THE ENCLOSURE ARE TO BE CONCEALED IN CONDUIT SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM THE ENCLOSURE TO THE BUILDING STRUCTURE. LOCK SHALL BE KEYED TO MATCH THE SCHOOL MASTER KEY SYSTEM. RE: CAFETERIA LIGHT SWITCH ENCLOSURE DETAIL.
9. DIGITAL WALL SWITCH(ES) WITH RAISE / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH THE ROOM LIGHTING CONTROL SYSTEM. PROVIDE ONE SWITCH FOR EACH CONTROL ZONE INDICATED. 4-BUTTON CONFIGURATION MAXIMUM PER SWITCH. CONTROL SYSTEM. PROVIDE ONE SWITCH FOR EACH CONTROL ZONE INDICATED.
10. NON-DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
11. PIPE GRID FOR STAGE EQUIPMENT SHOWN FOR REFERENCE. LIGHT FIXTURES IN THE STAGE AREA TO HANG BELOW PIPE GRID BUT ABOVE THE TOP OF THE STAGE OPENING. COORDINATE LIGHT FIXTURE PLACEMENT WITH STAGE PIPE GRID INSTALLER PRIOR TO ROUGH-IN.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

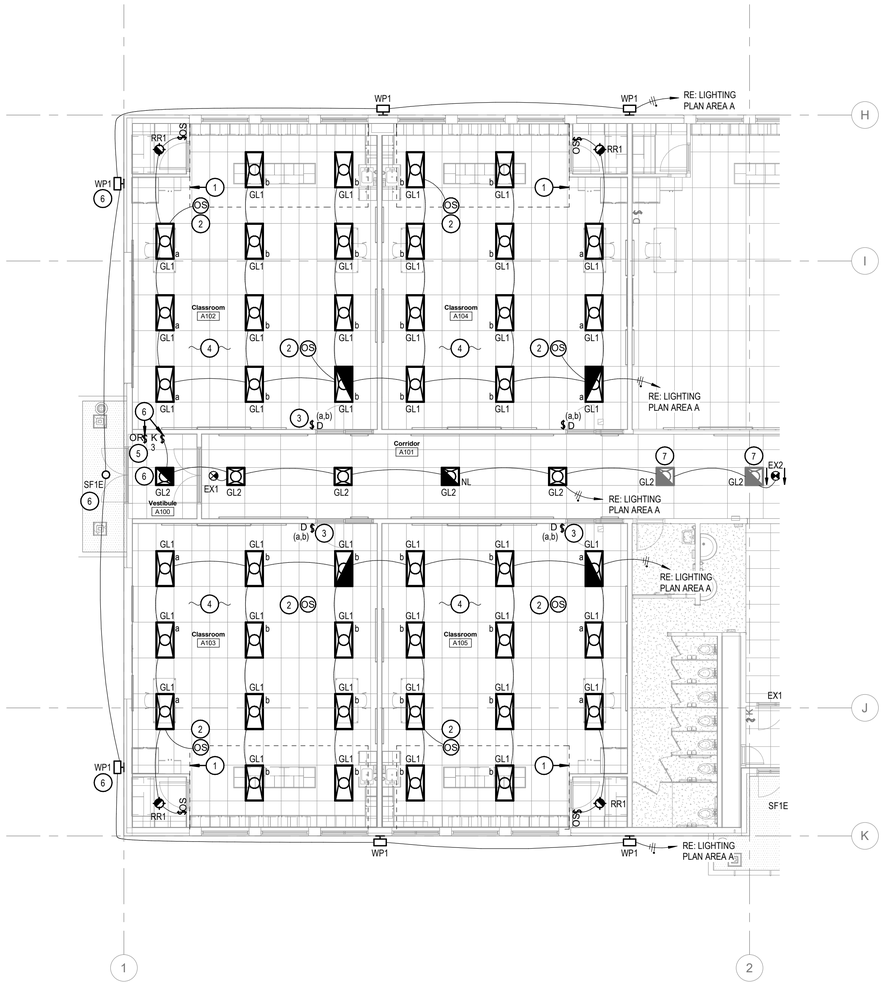
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

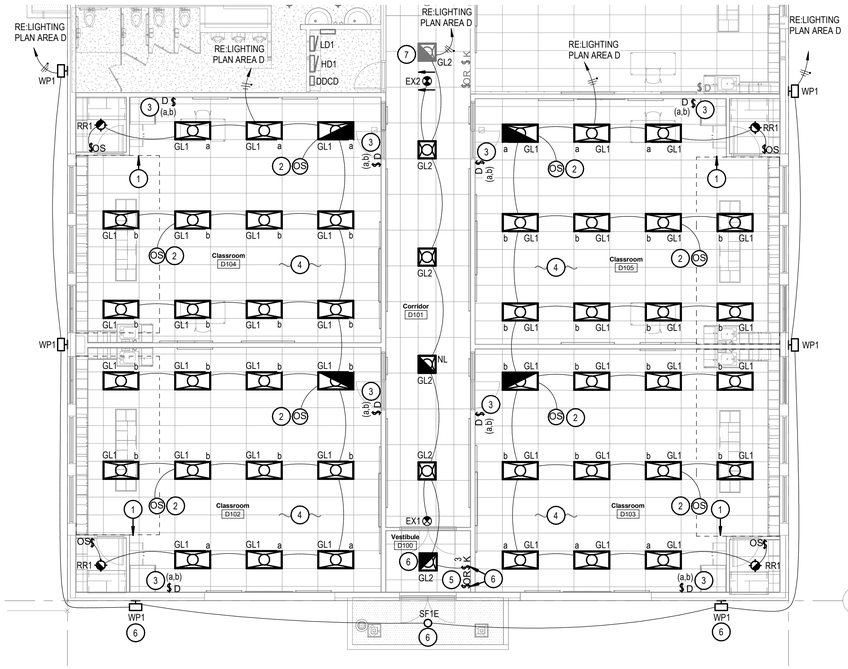
BID SET

DRAWING NO.:

E4.6
LIGHTING PLAN – AREA F



1 LIGHTING PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



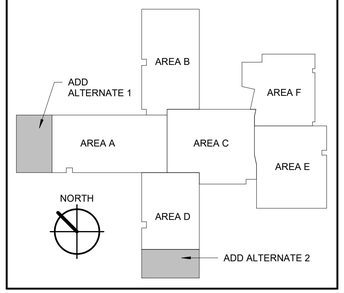
2 LIGHTING PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
2. DIGITAL, DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
3. 3 BUTTON DIGITAL SWITCH(ES) WITH / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
4. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER, ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY. AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
5. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 46" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH "LIGHTING OVER-RIDE".
6. DEVICE IN THIS LOCATION UNDER ADD ALTERNATE CONDITIONS. REFER TO BASE BID CONDITIONS FOR LOCATION UNDER BASE BID CONDITIONS
7. DEVICE IN THIS LOCATION PART OF BASE BID.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO AUDY LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

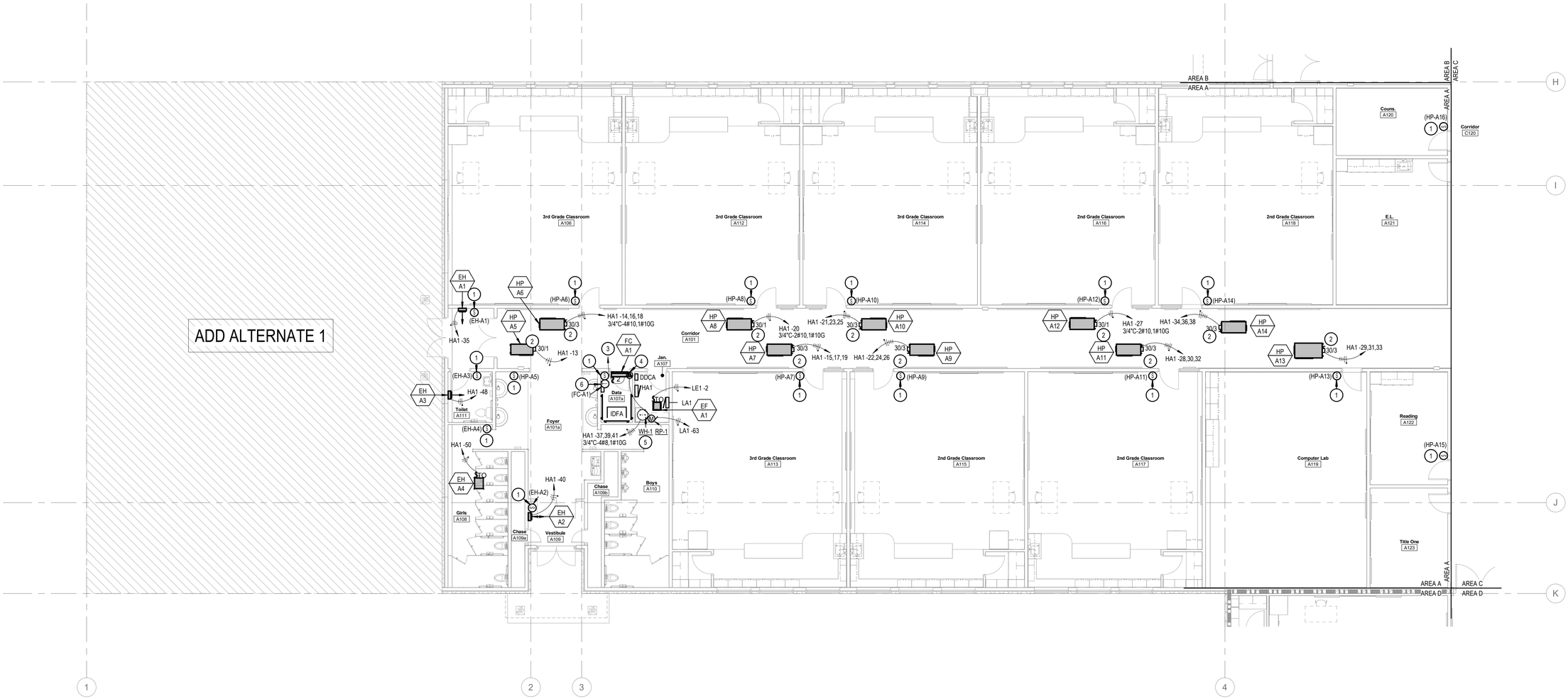
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E4.7
LIGHTING PLANS – ADD ALTERNATES 1 & 2



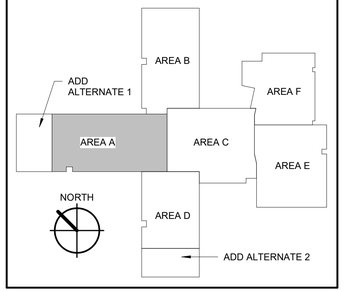
1 MECHANICAL POWER PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
3. PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
4. CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITHMECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. CONNECT WATER HEATER, RECIRC PUMP, AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
6. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions Description	Date
#	

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

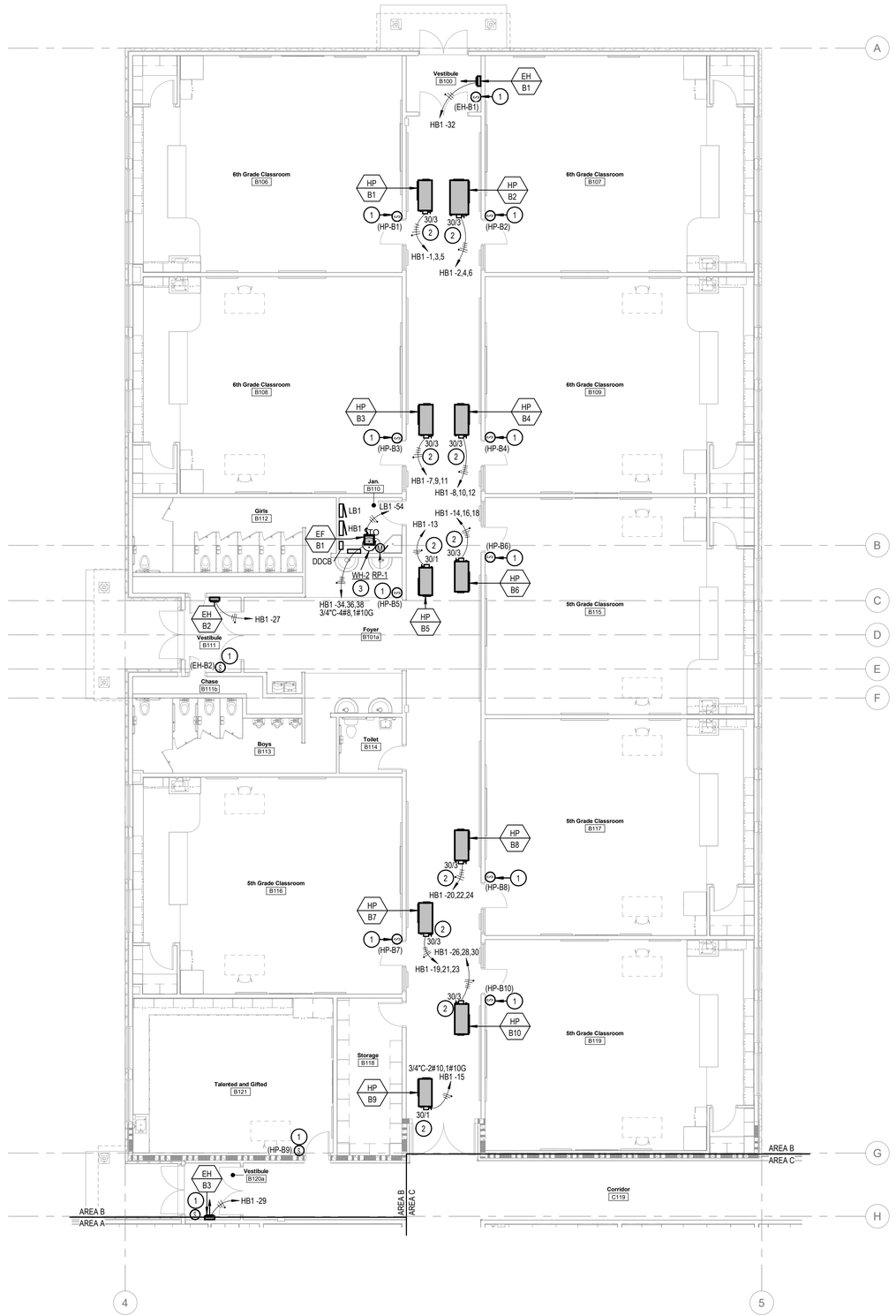
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E5.1
MECHANICAL POWER PLAN – AREA A



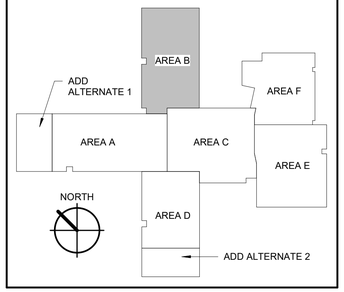
1 MECHANICAL POWER PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
3. CONNECT WATER HEATER, RECIRC PUMP, AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

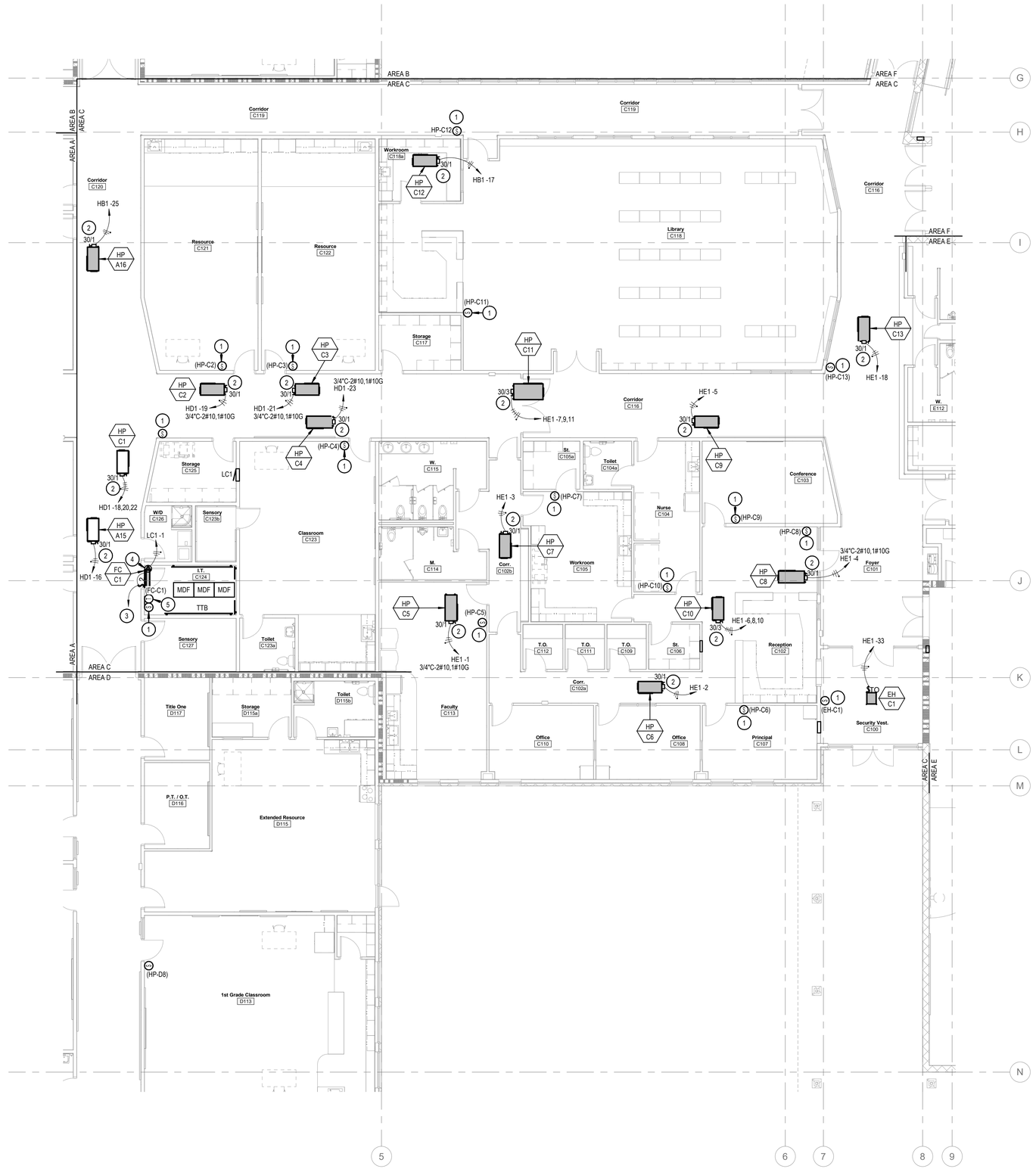
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E5.2
MECHANICAL POWER PLAN - AREA B



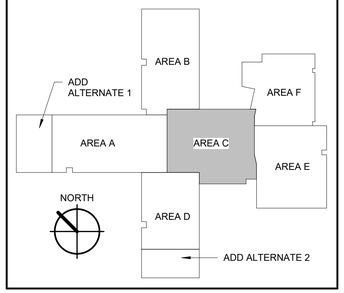
1 MECHANICAL POWER PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
3. PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
4. CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITHMECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

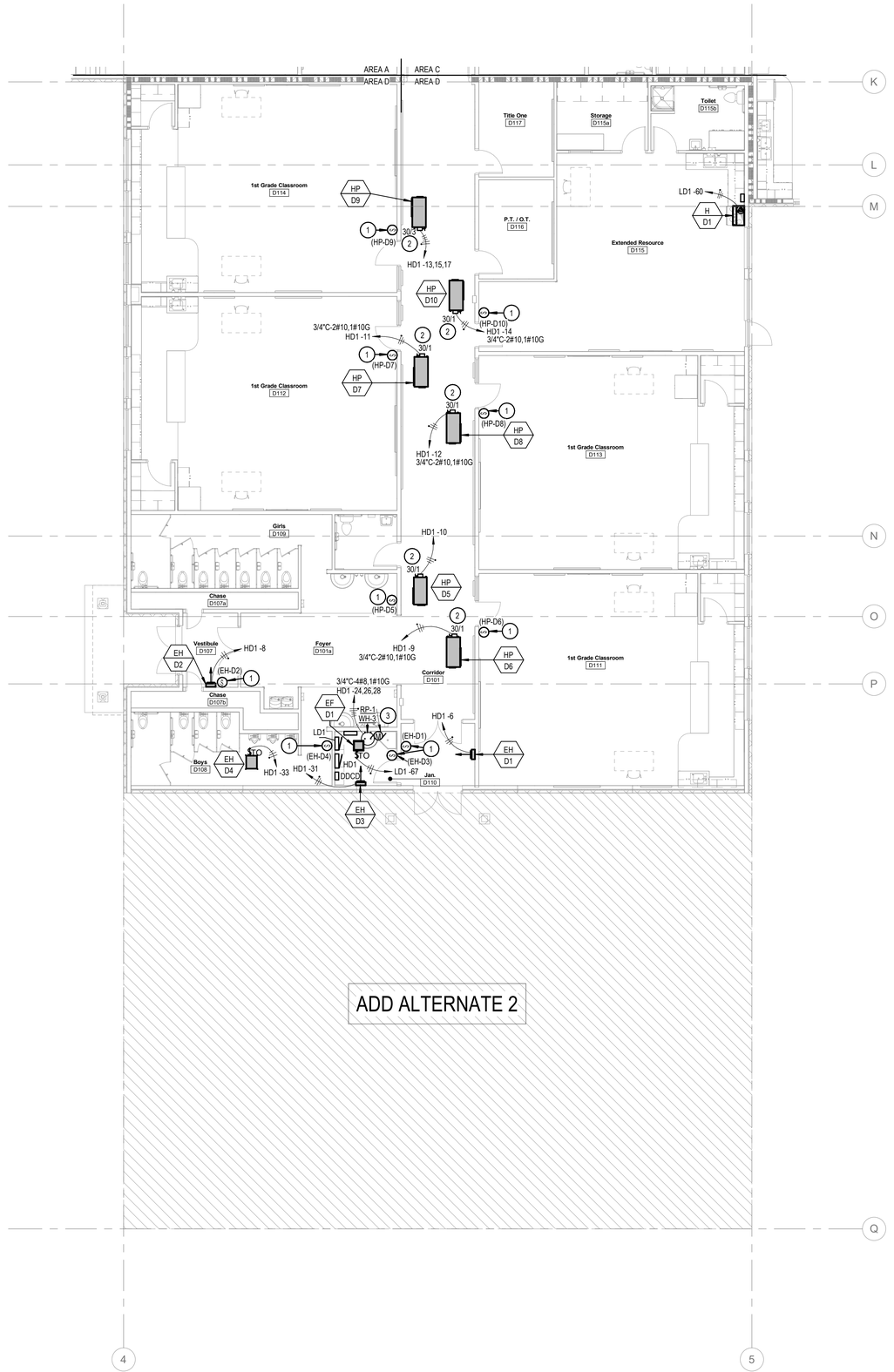
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E5.3
MECHANICAL POWER PLAN - AREA C



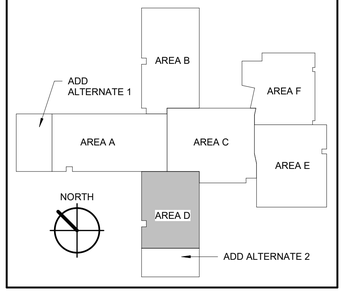
1 MECHANICAL POWER PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
3. CONNECT WATER HEATER, RECIRC PUMP, AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

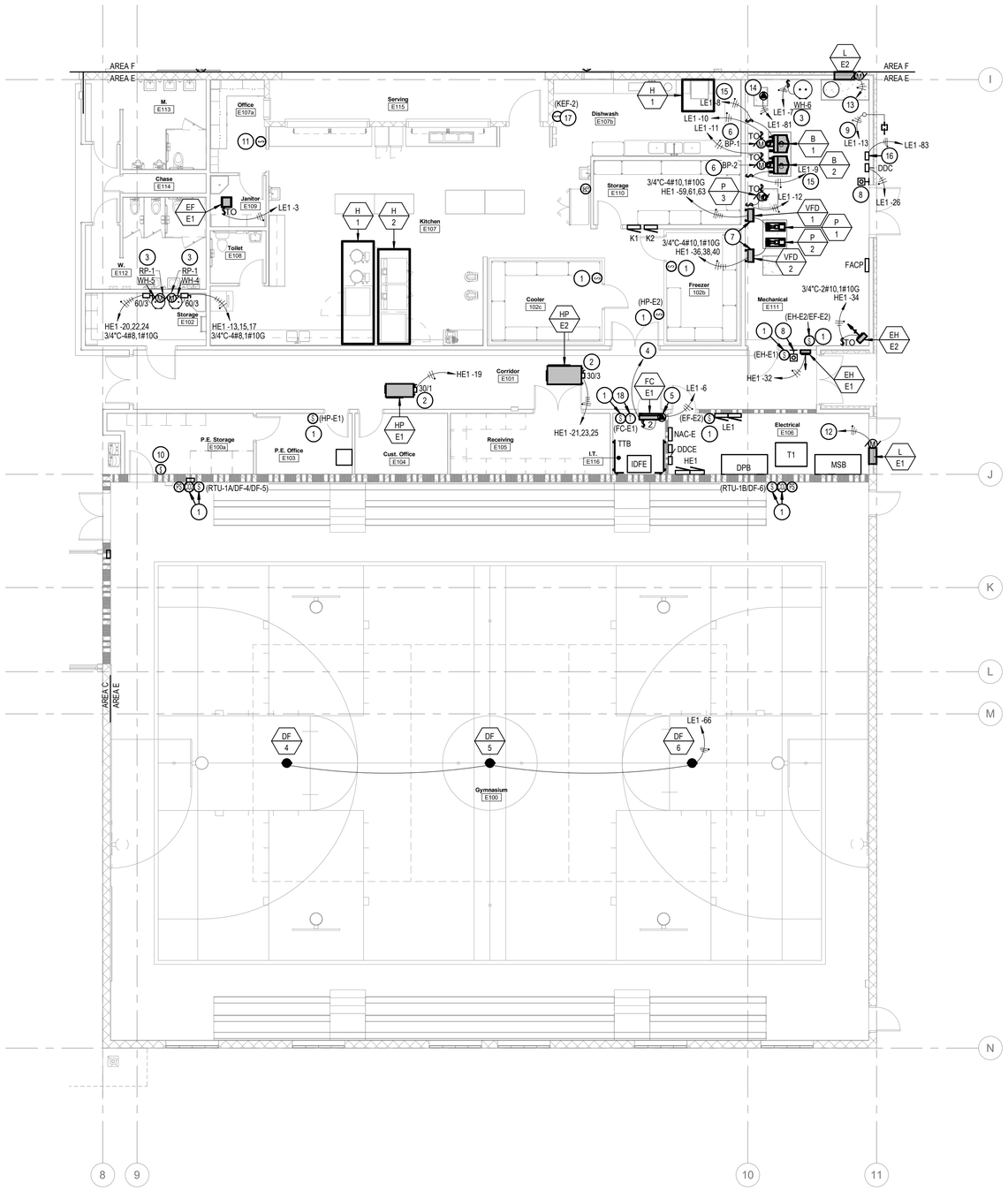
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E5.4
MECHANICAL POWER PLAN - AREA D



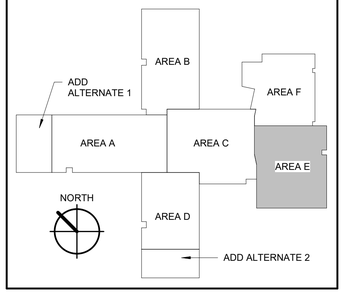
1 MECHANICAL POWER PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
3. CONNECT WATER HEATER, RECIRC PUMP, AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
4. PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
5. CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITHMECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. BOILER PUMP TO BE CONTROLLED BY CORRESPONDING BOILER. ROUTE CIRCUIT(S) THROUGH BOILER AND PROVIDE CONTACTORS/RELAYS AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. VFD PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. PROVIDE MUSHROOM BUTTON FOR BOILER SHUTDOWN. BUTTON SHALL SHUT DOWN BOTH BOILER AND BOILER PUMP ELECTRICAL, GAS FOR EACH BOILER UNIT AS WELL AS THE MAIN GAS SERVICE INSIDE THE BUILDING. PROVIDE SOLINOIDS AND RELAYS AS REQUIRED. MUSHROM BUTTON SHALL BE PUSH TO STOP, PULL TO START WITH 40MM RED BUTTON. PROVIDE NON-LOCKABLE GLASS BREAK COVER. PROVIDE A RED MACHINE ENGRAVED LABEL WITH 1" HIGH LETTERS THAT STATES "BOILER EMERGENCY SHUTDOWN". PROVIDE CONDUIT BETWEEN BUTTON AND EACH BOILER AND BOILER PUMP WITH CABLING AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
9. CONNECTION FOR MAIN GAS SERVICE SOLENOID FOR BOILER SHUTDOWN. SOLENOID PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR AND ENERGIZED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT, CONDUCTORS AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
10. OVERRIDE SWITCH FOR DESTRATIFICATION FANS IN GYMNASIUM E100. 1/2" CONDUIT TO CORRESPONDING MECHANICAL ULNIT. SWITCH PROVIDED BY MECHANICAL CONTRACTOR. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
11. OVERRIDE SWITCH FOR DESTRATIFICATION FANS IN CAFETORIUM F100. 1/2" CONDUIT TO CORRESPONDING MECHANICAL ULNIT. SWITCH PROVIDED BY MECHANICAL CONTRACTOR. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
12. INTERLOCK LOUVER WITH EXHAUST FAN EF-E2 LOCATED ON ROOF, AREA E. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
13. INTERLOCK LOUVER WITH EXHAUST FAN EF-E3 LOCATED ON ROOF, AREA E. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
14. CONNECTION FOR FLOW METER 'FM-1'. PROVIDE TRANSFORMER, CONDUIT AND CABLING AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
15. ROUTE CIRCUIT THROUGH BOILER SHUTDOWN CONTACTOR.
16. PROVIDE 2-POLE CONTACTOR IN A NEMA 1 ENCLOSURE FOR BOILER EMERGENCY SHUT DOWN CONTROL. CONTACTOR SHALL BE MECHANICALLY HELD, FAIL SAFE TYPE. CONTACTOR SHALL OPEN, WHEN THE BOILER EMERGENCY STOP BUTTON IS PRESSED.
17. SWITCH FOR KEF-2 AND H-1. RE: ENLARGED KITCHEN PLAN
18. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

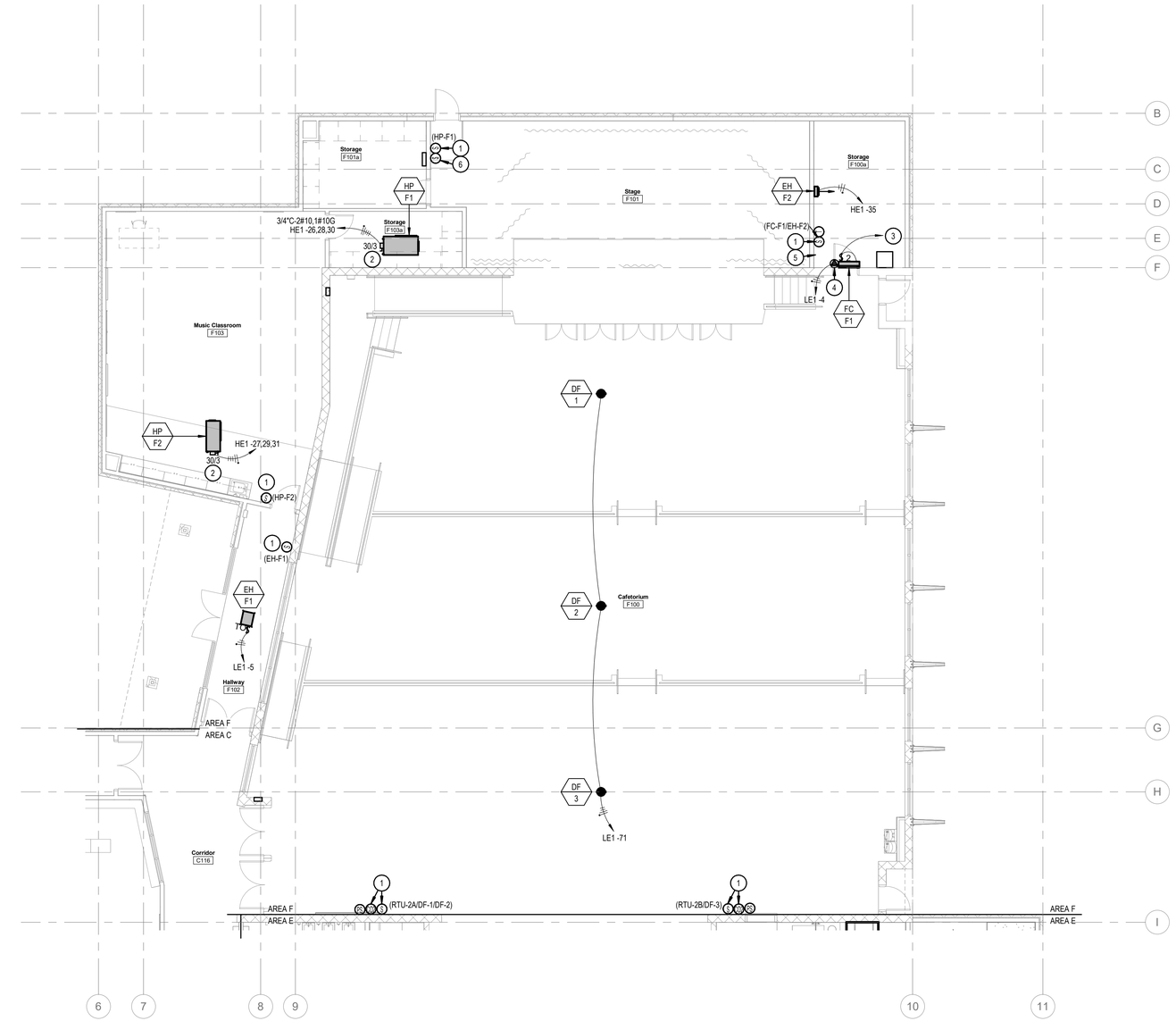
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E5.5
MECHANICAL POWER PLAN – AREA E



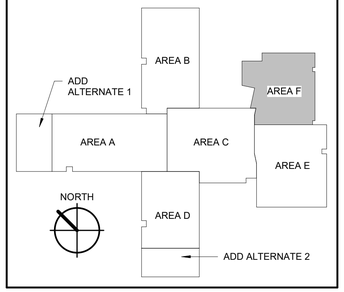
1 MECHANICAL POWER PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
3. PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
4. CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITHMECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
6. OVERRIDE SWITCH FOR HEAT PUMP 'HP-1'. 1/2" CONDUIT TO CORRESPONDING MECHANICAL ULNIT. SWITCH PROVIDED BY MECHANICAL CONTRACTOR. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions		
#	Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

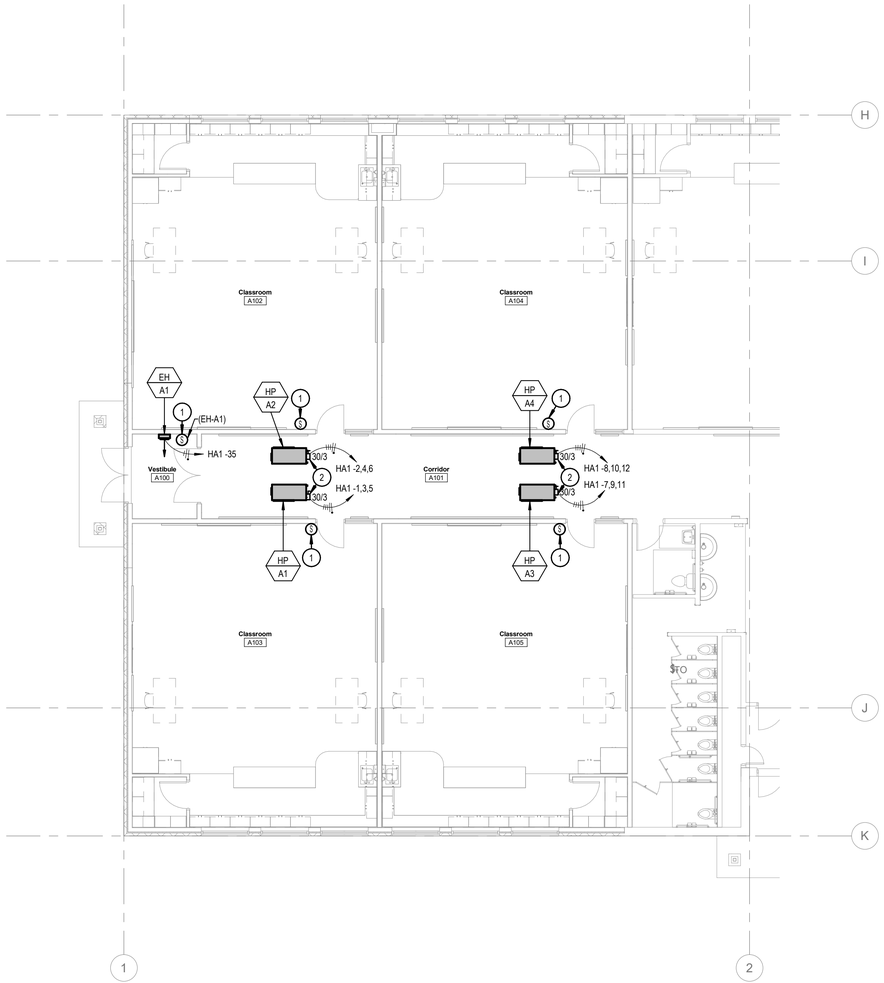
E5.6
MECHANICAL POWER PLAN - AREA F

KEYED NOTES:

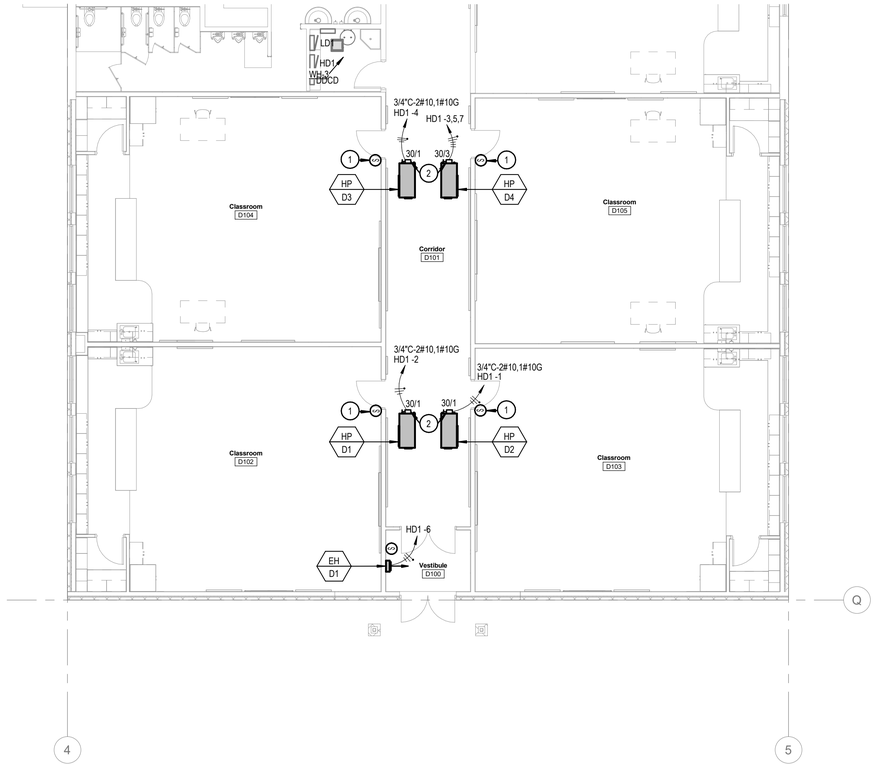
(#) SYMBOL USED FOR CALLOUT

1. HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.

2. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.

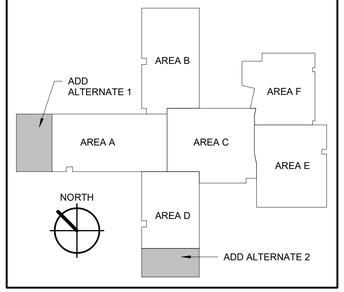


1 MECHANICAL POWER PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



2 MECHANICAL POWER PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

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Description
Date
#

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

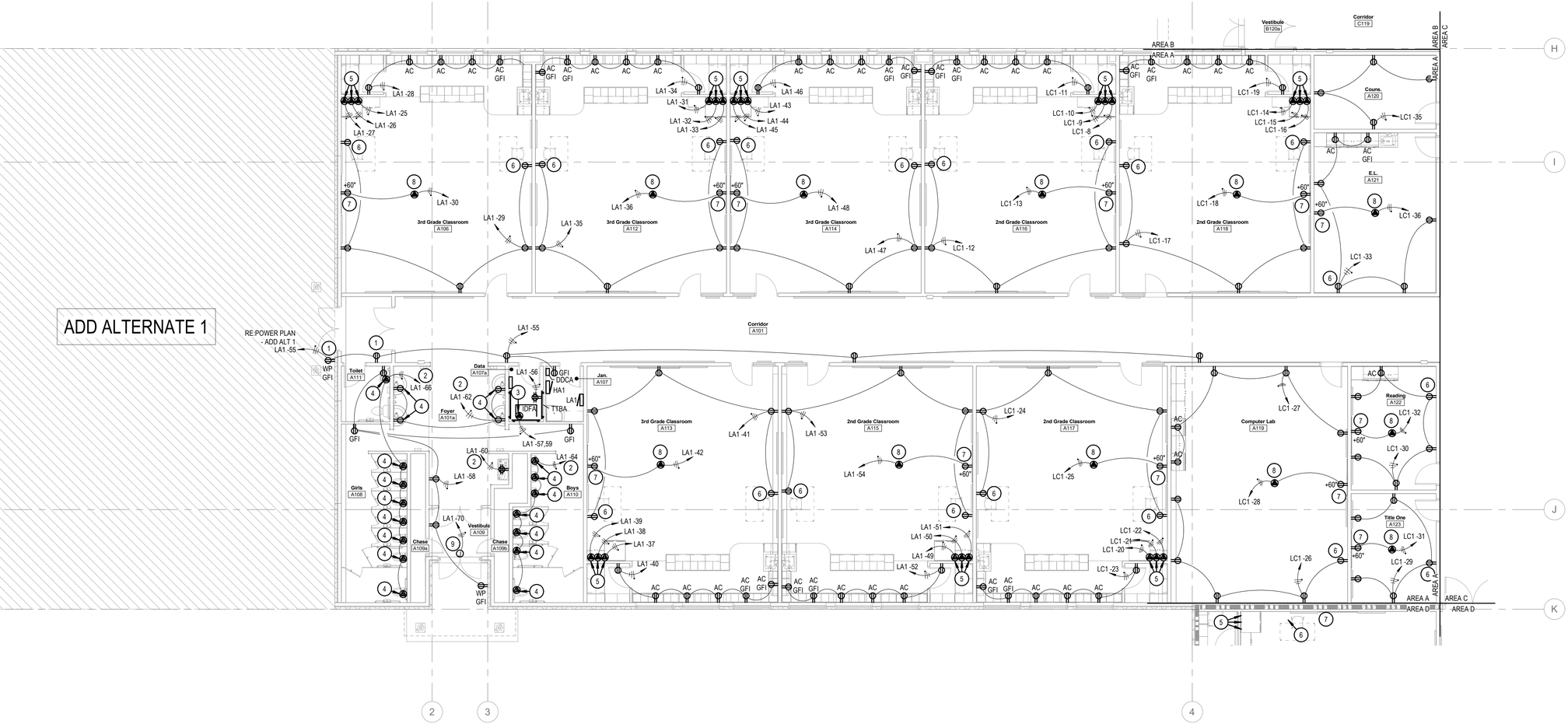
DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E5.7
MECHANICAL POWER PLANS – ADD ALTERNATES 1 & 2

ADD ALTERNATE 1



1 POWER PLAN - AREA A
1/8" = 1'-0"

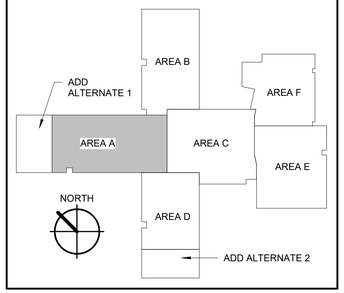
ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DEVICE IN THIS LOCATION PART OF BASE BID OR BID ALTERNATE 1.
2. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
3. CONNECTION FOR SERVER EQUIPMENT. PROVIDE L6-30R RECEPTACLE. VERIFY CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
4. PROVIDE CONNECTION FOR PLUMBING FIXTURE. PROVIDE TRANSFORMER(S) AS REQUIRED. COORDINATE CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER(S) SHALL BE CONCEALED FROM PUBLIC VIEW AND MAY SERVICE MULTIPLE FIXTURES AS APPLICABLE. RE: PLUMBING SCHEDULES.
5. CONNECTION FOR IPAD CHARGING STATION. REFER TO CHARGING DETAIL.
6. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
7. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM TV DETAIL.
8. CONNECTION FOR CEILING MOUNTED CLASSROOM AMPLIFICATION SPEAKER. RE: SPECIAL SYSTEMS PLANS.
9. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

Revisions
Description
Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

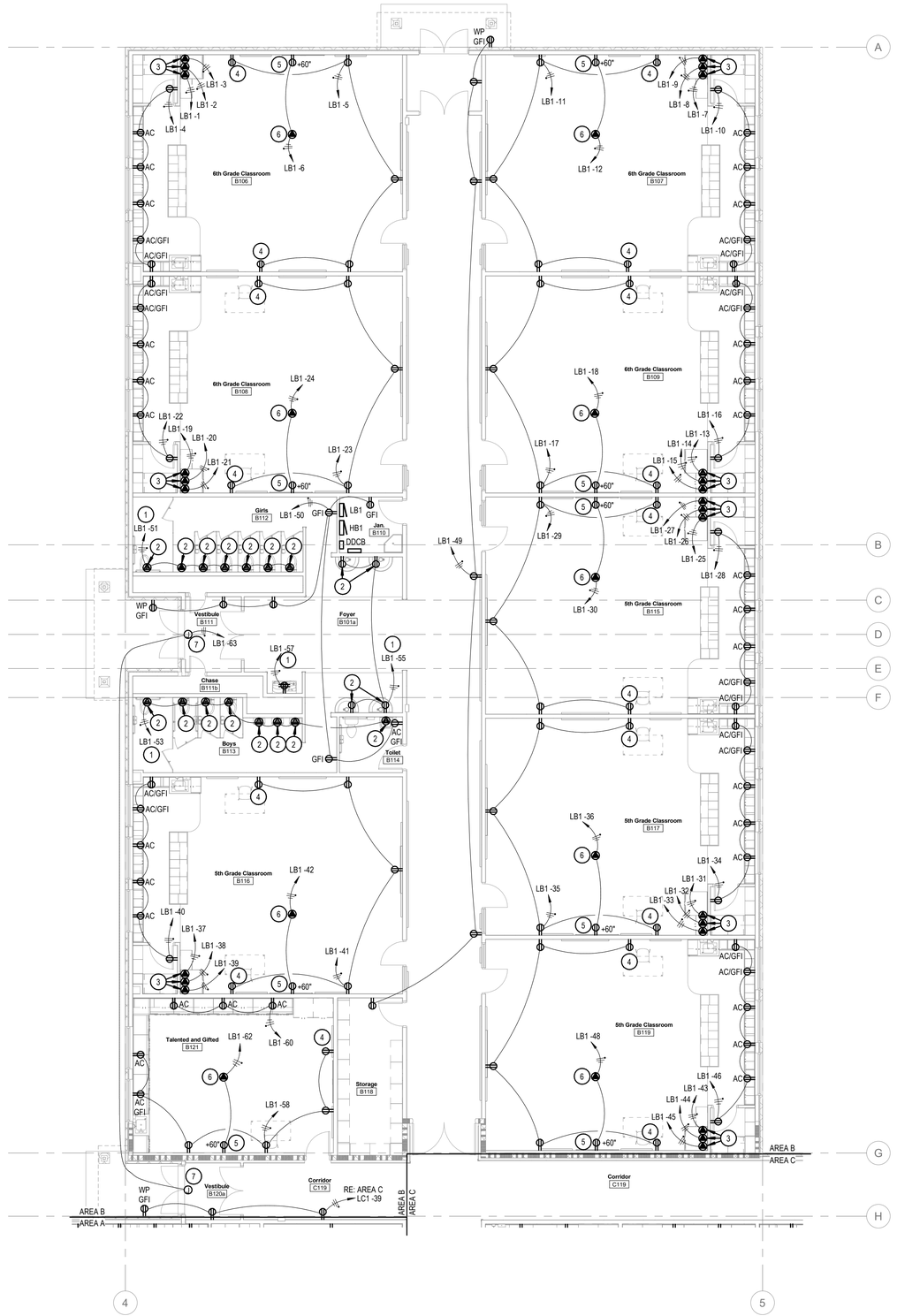
DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.1
POWER PLAN – AREA A

ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12



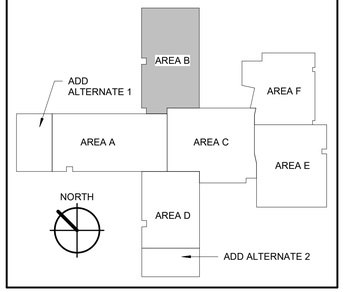
1 POWER PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
2. PROVIDE CONNECTION FOR PLUMBING FIXTURE. PROVIDE TRANSFORMER(S) AS REQUIRED. COORDINATE CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER(S) SHALL BE CONCEALED FROM PUBLIC VIEW AND MAY SERVICE MULTIPLE FIXTURES AS APPLICABLE. RE: PLUMBING SCHEDULES.
3. CONNECTION FOR IPAD CHARGING STATION. REFER TO CHARGING DETAIL.
4. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
5. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM TV DETAIL.
6. CONNECTION FOR CEILING MOUNTED CLASSROOM AMPLIFICATION SPEAKER. RE: SPECIAL SYSTEMS PLANS.
7. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.2
POWER PLAN – AREA B

ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

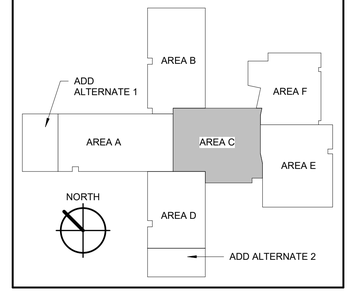
1 POWER PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
2. PROVIDE CONNECTION FOR PLUMBING FIXTURE. PROVIDE TRANSFORMER(S) AS REQUIRED. COORDINATE CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER(S) SHALL BE CONCEALED FROM PUBLIC VIEW AND MAY SERVICE MULTIPLE FIXTURES AS APPLICABLE. RE: PLUMBING SCHEDULES.
3. CONNECTION FOR SERVER EQUIPMENT. PROVIDE L6-30R RECEPTACLE. VERIFY CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
4. CONNECTION FOR CLOTHS DRYER. MOUNT AT 46" AFF.
5. RECEPTACLE MOUNTED IN MILLWORK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
6. MULTI-SERVICE FLOOR BOX. UTILIZE HUBBELL CFCAG SERIES OR EQUAL WITH DEVICE PLATES, CARPET FLANGE WITH INSERT, AND ALL REQUIRED DEVICES FOR A COMPLETE INSTALLATION.
7. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
8. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM TV DETAIL.
9. CONNECTION FOR CEILING MOUNTED CLASSROOM AMPLIFICATION SPEAKER. RE: SPECIAL SYSTEMS PLANS.
10. CONNECTION FOR PRINTER. VERIFY CONNECTION REQUIREMENTS AND LOCATION WITH PRINTER SUPPLIER PRIOR TO ROUGH-IN.
11. CONNECTION FOR DOOR OPERATOR. COORDINATE POWER AND CONTROL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
12. ACTUATOR BUTTON FOR POWERED DOOR OPERATOR. CENTER OF BUTTON TO BE AT 34" AFF. COORDINATE POWER AND CONTROL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
13. ACTUATOR BUTTONS FOR SEPARATE POWERED DOOR OPERATORS. PROVIDE 2-GANG BOX FOR TWO ADA DOOR ACTUATION BUTTONS AT 34" AFF. COORDINATE POWER AND CONTROL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
14. JUNCTION BOX FOR EMERGENCY LOCKDOWN BUTTON. PANIC BUTTON MOUNTING TO BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN. LABEL BUTTON AS "EMERGENCY LOCKDOWN". ROUTE 120V POWER TO LOCAL DOOR ACCESS POWER SUPPLIES TO ALLOW FOR MANUAL SHUTDOWN OF DOOR ACCESS POWER VIA THE BUTTON.
15. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL
16. CONNECTION FOR DOOR ELECTRONIC LOCKING SYSTEM. COORDINATE CONNECTION REQUIREMENTS WITH DOOR HARDWARE SUPPLIER. STUB (2)3/4" CONDUITS INTO THE DOOR FRAME FOR CABLING. PROVIDE AND INSTALL ALL CONDUIT, BOXES, AND CONDUCTORS REQUIRED FOR A COMPLETE INSTALLATION.
17. CONTROL BUTTON FOR CALM ROOM DOOR. PROVIDE ALL REQUIRED CONDUITS AND CONDUCTORS REQUIRED FOR A COMPLETE INSTALLATION.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO AUDY LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

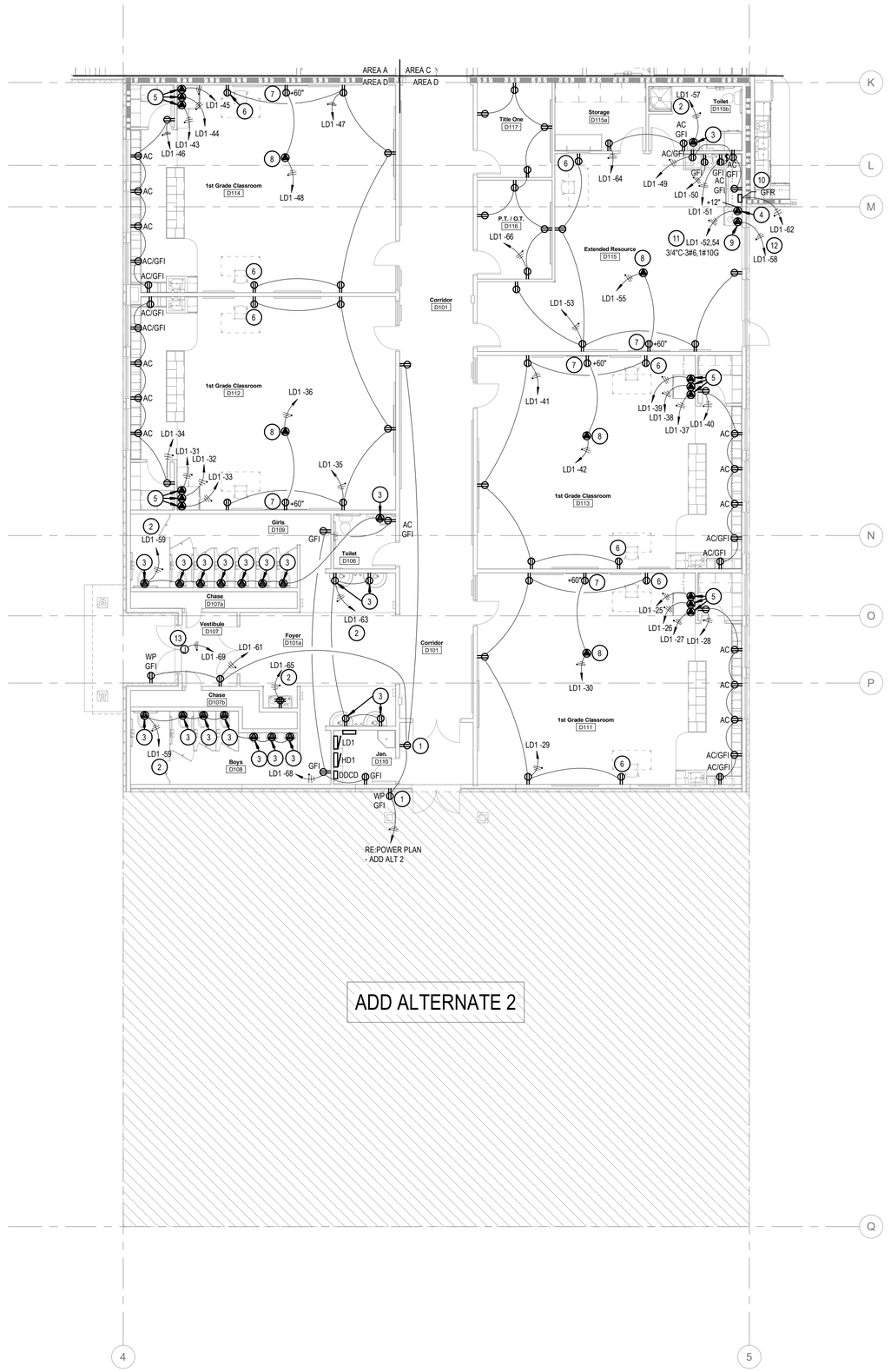
DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.3

POWER PLAN – AREA C



1 POWER PLAN - AREA D
1/8" = 1'-0"

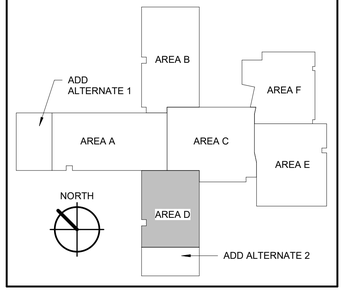
ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DEVICE IN THIS LOCATION PART OF BASE BID OR BID ALTERNATE 2.
2. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
3. PROVIDE CONNECTION FOR PLUMBING FIXTURE. PROVIDE TRANSFORMER(S) AS REQUIRED. COORDINATE CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. TRANSFORMER(S) SHALL BE CONCEALED FROM PUBLIC VIEW AND MAY SERVICE MULTIPLE FIXTURES AS APPLICABLE. RE: PLUMBING SCHEDULES.
4. CONNECTION FOR RANGE. PROVIDE RECEPTACLE COMPATIBLE WITH THE RANGE PLUG. COORDINATE THE CONNECTION REQUIREMENTS WITH THE EQUIPEMNT SUPPLIER. CIRCUIT TO BE BE INTERLOCKED WITH THE ANSUL FIRE EXTINGUISHING SYSTEM FOR UNIT SHUT DOWN. PROVIDE ANSUL SYSTEM ELECTRONIC SHUT DOWN DEVICE AS REQUIRED. PROVIDE CONNECTION BETWEEN THE SHUT DOWN DEVICE AND THE FIRE EXTINGUISHING SYSTEM AND ALL ADDITIONAL MATERIALS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
5. CONNECTION FOR IPAD CHARGING STATION. REFER TO CHARGING DETAIL.
6. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
7. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM TV DETAIL.
8. CONNECTION FOR CEILING MOUNTED CLASSROOM AMPLIFICATION SPEAKER. RE: SPECIAL SYSTEMS PLANS.
9. CONNECTION FOR HOOD ANSUL SYSTEM. PROVIDE BACKBOX AT ANSUL SYSTEM, STOVE RECEPTACLE, 3/4" CONDUIT BETWEEN THE TWO BACK BOXES, AND CONDUCTORS, AND ALL DEVICES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. COORDINATE CONNECTION REQUIREMENTS WITH ANSUL SYSTEM INSTALLER PRIOR TO ROUGH-IN.
10. GROUND FAULT RELAY CABINET 'GFR'. CABINET TO BE LOCATED IN CASEWORK ABOVE ACCESSIBLE CEILING NEAR HOOD. RE: GROUND FAULT RELAY CABINET DETAIL.
11. ROUTE CIRCUIT THROUGH THE GROUND FAULT RELAY PANEL 'GFR'. RE: GROUND FAULT REALAY CABINET DETAIL.
12. PROVIDE RED HANDLED LOCKABLE TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.
13. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO AUDY LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

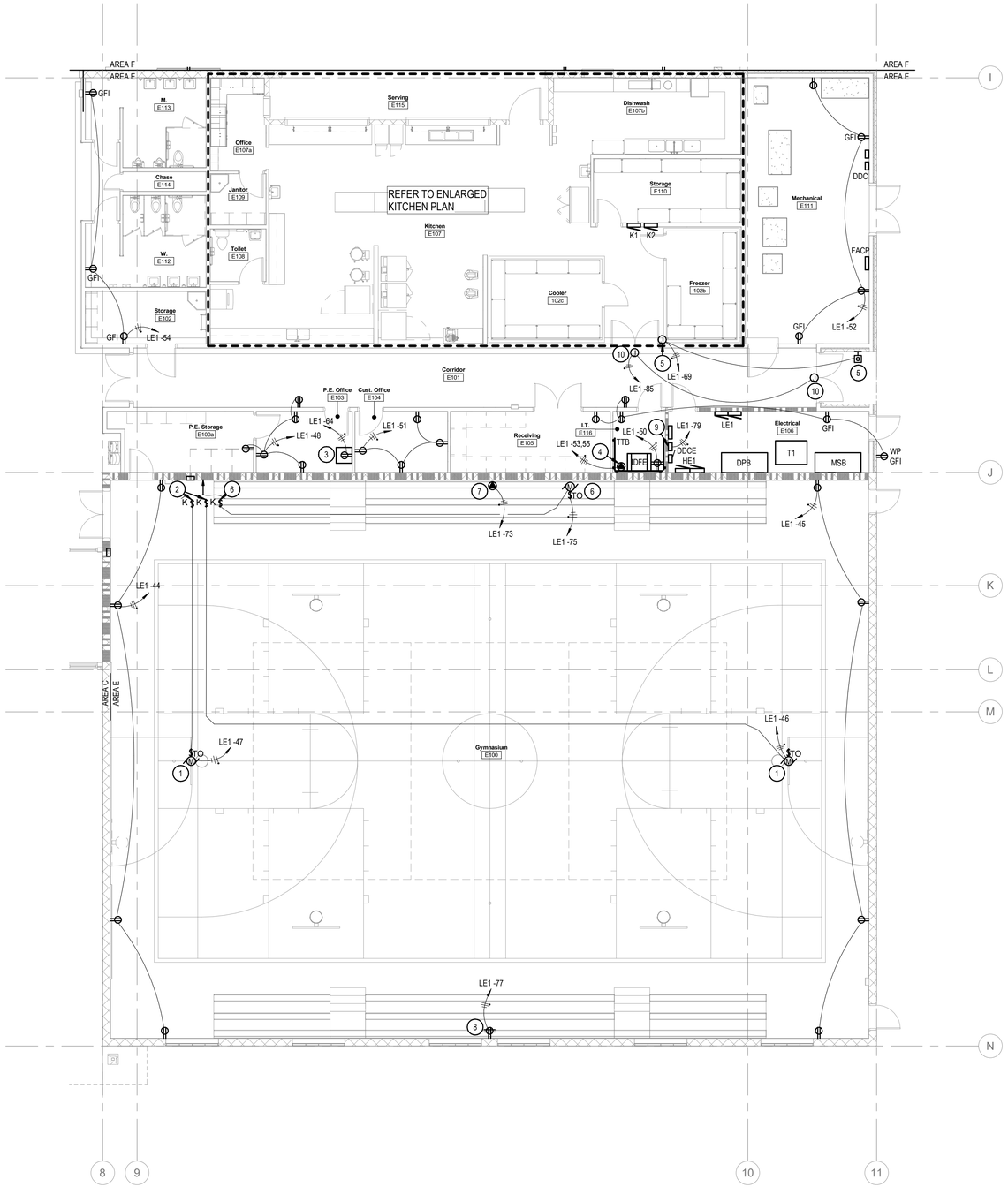
DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.4
POWER PLAN – AREA D

ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12



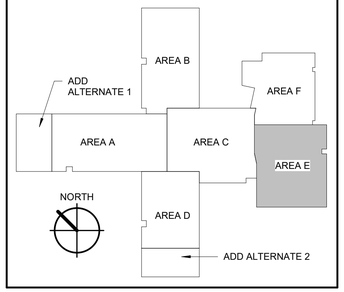
1 POWER PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. CONNECTION FOR MOTORIZED BACKBOARD. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION.
2. SWITCHES FOR MOTORIZED BACKSTOPS. SWITCHES FURNISHED WITH THE BACKBOARD ASSEMBLIES, INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
3. DEDICATED RECEPTACLE FOR SOUND SYSTEM HEAD-END UNIT. RECEPTACLE TO BE MOUNTED IN CABINET. COORDINATE LOCATION AND MOUNTING HEIGHT WITH SOUND SYSTEM INSTALLER PRIOR TO ROUGH-IN.
4. CONNECTION FOR SERVER EQUIPMENT. PROVIDE L6-30R RECEPTACLE. VERIFY CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
5. DOOR CHIME AND PUSH BUTTON FOR KITCHEN. PROVIDE DOOR CHIME, TRANSFORMER AND EXTERIOR RATED PUSH BUTTON. PUSH BUTTON TO BE MOUNTED AT 46" AFG. PROVIDE ALL CONDUIT, JUNCTION BOXES AND CONDUCTORS AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
6. PROJECTOR SCREEN MOTOR AND RAISE/LOWER SWITCH. COORDINATE CONNECTION REQUIREMENTS AND HEIGHT WITH SCREEN INSTALLER/MANUFACTURER PRIOR TO ROUGH-IN.
7. CONNECTION FOR OWNER FURNISHED, OWNER INSTALLED SCOREBOARD. MOUNT JUNCTION BOX AT 11'-0" AFF. PROVIDE CONDUIT, BOXES AND CONDUCTORS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT LOCATION AND CONNECTION EQUIREMENTS WITH SCOREBOARD PROVIDER PRIOR TO ROUGH-IN.
8. QUAD RECEPTACLE FOR PROJECTOR. VERIFY PROJECTOR LOCATION AND HEIGHT PRIOR TO INSTALLATION. PROJECTOR OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM PROJECTOR DETAIL.
9. STUB (2) 1-1/2" CONDUITS FROM THE IRRIGATION CONTROLLER TO THE LANDSCAPE AREA FOR CONTROL CABLING. COORDINATE THE CONDUIT STUB UP AND CONTROLLER LOCATIONS WITH THE IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.
10. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.5

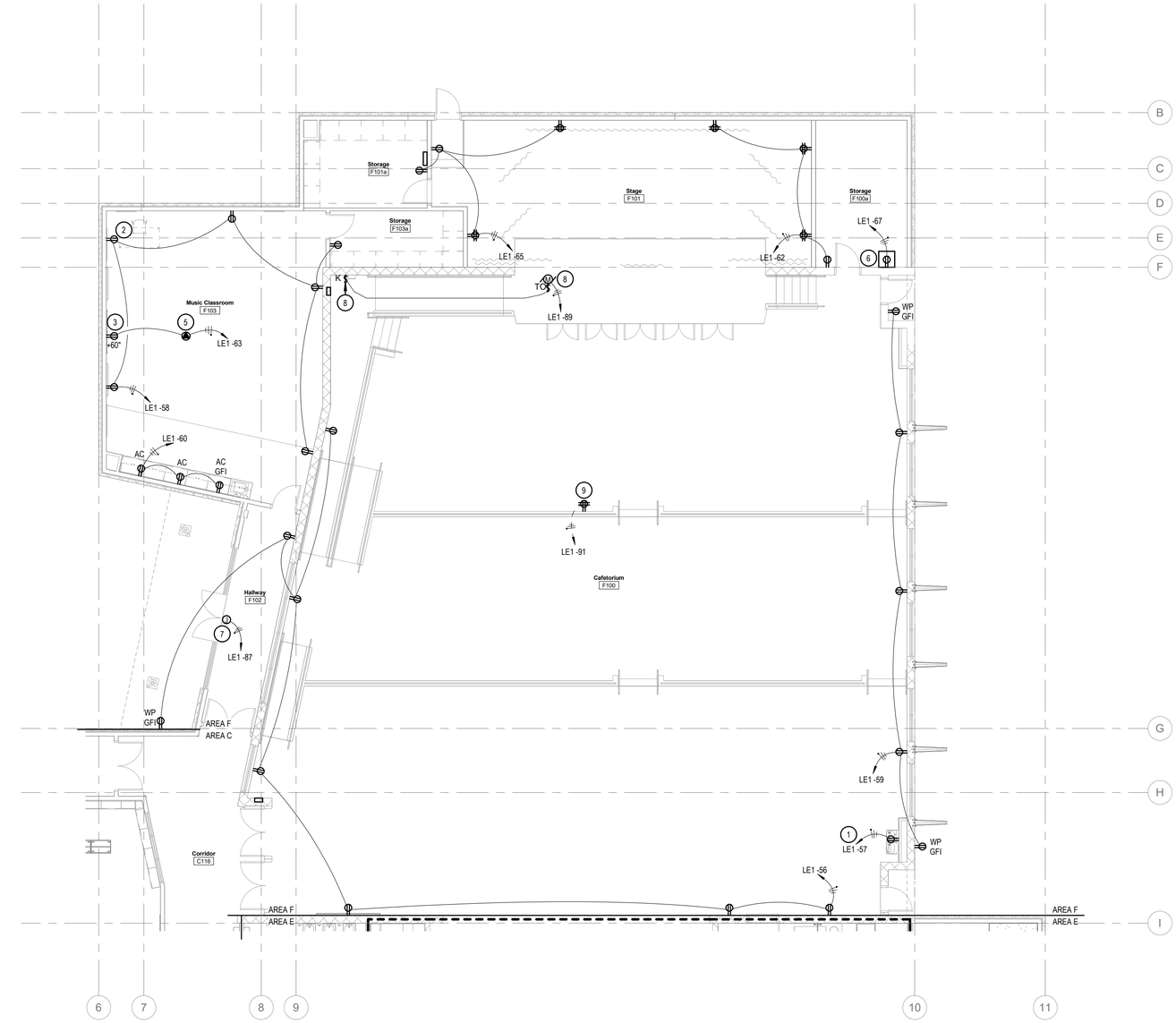
POWER PLAN – AREA E

ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

KEYED NOTES:

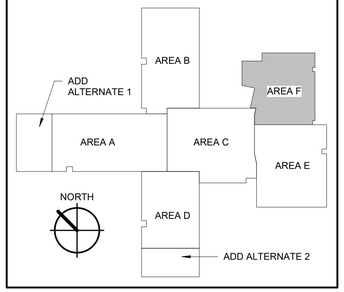
(#) SYMBOL USED FOR CALLOUT

1. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
2. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM TV DETAIL.
3. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM PROJECTOR DETAIL.
5. CONNECTION FOR CEILING MOUNTED CLASSROOM AMPLIFICATION SPEAKER. RE: SPECIAL SYSTEMS PLANS.
6. DEDICATED RECEPTACLE FOR SOUND SYSTEM HEAD-END UNIT. RECEPTACLE TO BE MOUNTED IN CABINET. COORDINATE LOCATION AND MOUNTING HEIGHT WITH SOUND SYSTEM INSTALLER PRIOR TO ROUGH-IN.
7. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL
8. PROJECTOR SCREEN MOTOR AND RAISE/LOWER SWITCH. COORDINATE CONNECTION REQUIREMENTS AND HEIGHT WITH SCREEN INSTALLER/MANUFACTURER PRIOR TO ROUGH-IN.
9. QUAD RECEPTACLE FOR PROJECTOR. VERIFY PROJECTOR LOCATION AND HEIGHT PRIOR TO INSTALLATION. PROJECTOR OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM PROJECTOR DETAIL.



1 POWER PLAN - AREA F
1/8" = 1'-0"

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
project number: **21-422**

Revisions

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Jerome School District No. 261
N. 100 E. Jerome, Idaho

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LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.6

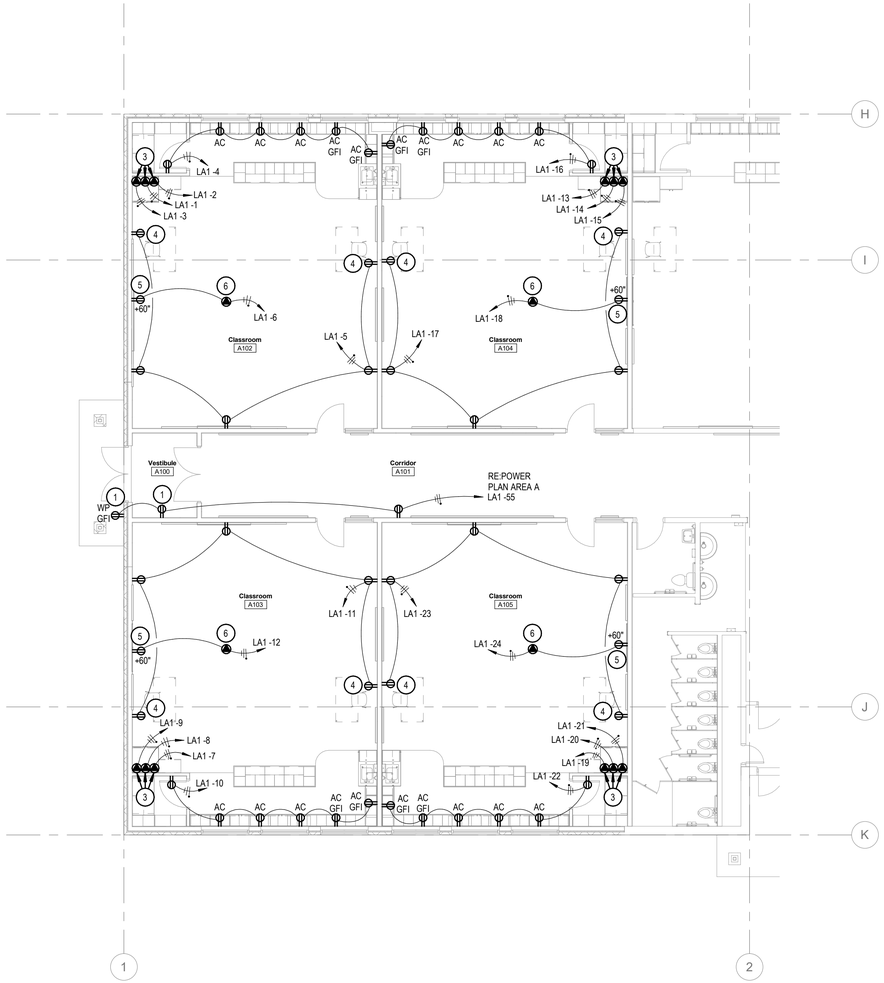
POWER PLAN – AREA F

ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

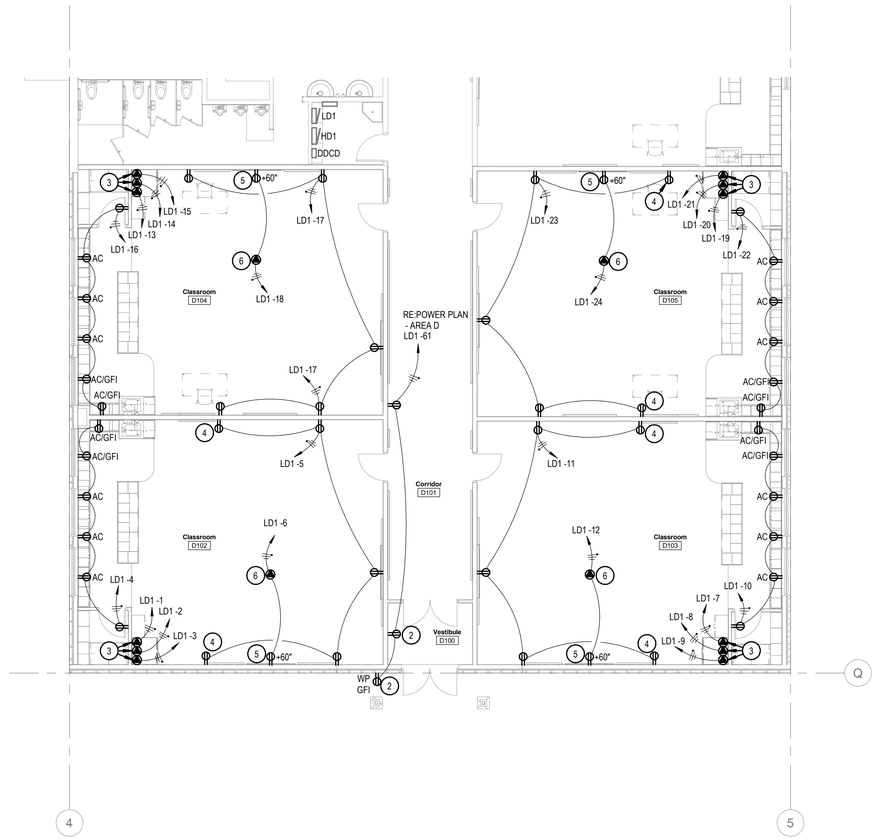
KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DEVICE IN THIS LOCATION PART OF BASE BID OR BID ALTERNATE 1.
2. DEVICE IN THIS LOCATION PART OF BASE BID OR BID ALTERNATE 2.
3. CONNECTION FOR IPAD CHARGING STATION. REFER TO CHARGING DETAIL.
4. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
5. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV OWNER FURNISHED, CONTRACTOR INSTALLED. RE: CLASSROOM PROJECTOR DETAIL.
6. CONNECTION FOR CEILING MOUNTED CLASSROOM AMPLIFICATION SPEAKER. RE: SPECIAL SYSTEMS PLANS.

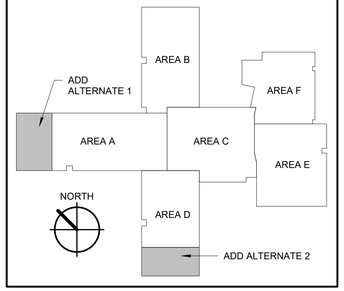


1 POWER PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



2 POWER PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

Keyed Plan



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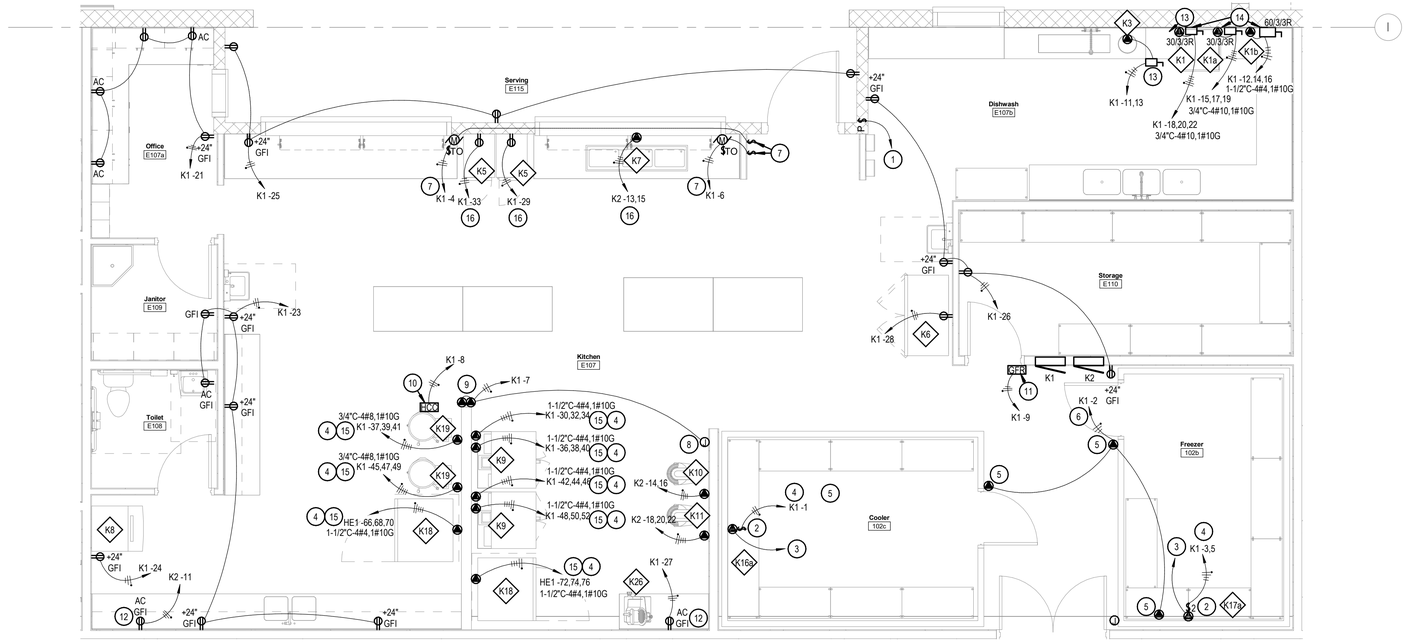
DRAWN BY: AN
CHECKED BY: KL

BID SET

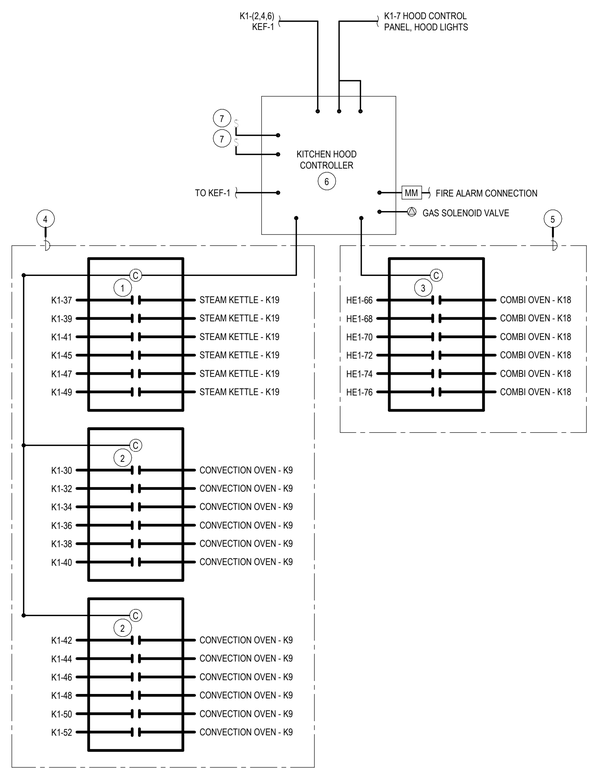
DRAWING NO.:

E6.7
POWER PLANS – ADD ALTERNATES 1 & 2



1 ENLARGED KITCHEN PLAN
1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE				
ITEM #	DESCRIPTION	MANUFACTURER	CONNECTION TYPE	ELECTRICAL DATA
K1	DISHWASHER	HOBART	DIRECT CONNECT	208V/3P - 27A
K1a	DISHWASHER (INTERNAL BOOSTER)	HOBART	DIRECT CONNECT	208V/3P - 26A
K1b	BOOSTER (EXTERNAL)	HATCO	DIRECT CONNECT	208V/3P - 15kW
K3	DISPOSER	HOBART	DIRECT CONNECT	208V/2P -
K5	HOT FOOD CABINET	METRO	PLUG	120V - 2kW
K5	HOT FOOD CABINET	METRO	PLUG	120V - 2kW
K6	FRIDGE	BEVERAGE-AIR	PLUG	120V
K7	STEAM TABLE	TABCO	PLUG	208V/2P - 2.5kW
K8	ICE MAKER	AVANTO	PLUG	120V
K9	DBL. STACK CONVECTION OVEN	VULCAN	DIRECT CONNECT	208V/3P - (2)12.5kW
K9	DBL. STACK CONVECTION OVEN	VULCAN	DIRECT CONNECT	208V/3P - (2)12.5kW
K10	40 QT MIXER	HOBART	DIRECT CONNECT	208V/2P - 1-1/2HP
K11	60 QT MIXER	HOBART	DIRECT CONNECT	208V/3P - 2.7HP
K16	WALK-IN COOLER (ROOF CONDENSER)		DIRECT CONNECT	208V/3P
K16a	WALK-IN COOLER (FAN COIL)		DIRECT CONNECT	120V
K17	WALK-IN FREEZER (ROOF CONDENSER)		DIRECT CONNECT	208V/3P
K17a	WALK-IN FREEZER (FAN COIL)		DIRECT CONNECT	208V/2P
K18	SINGLE STACK COMBI OVEN	RATIONAL	DIRECT CONNECT	480V/3P - 37.2kW
K18	SINGLE STACK COMBI OVEN	RATIONAL	DIRECT CONNECT	480V/3P - 37.2kW
K19	STEAM KETTLE	CLEVELAND	DIRECT CONNECT	208V/3P - 9.8kW
K19	STEAM KETTLE	CLEVELAND	DIRECT CONNECT	208V/3P - 9.8kW
K26	FOOD SLICER	CLEVELAND	PLUG	120V



2 KITCHEN HOOD CONTRACTOR CABINET DETAIL
NTS

DETAIL NOTES:

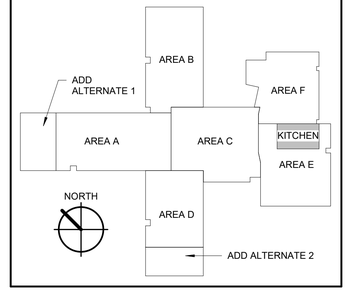
1. 6-POLE, 40AMP, 240V RATED CONTACTOR, NORMALLY OPEN WITH 120V COIL.
2. 6-POLE, 50AMP, 240V RATED CONTACTOR, NORMALLY OPEN WITH 120V COIL.
3. 6-POLE, 60AMP, 480V RATED CONTACTOR, NORMALLY OPEN WITH 120V COIL.
4. HOOD CONTACTOR CABINET 'HCC.' PROVIDE NEMA 1 ENCLOSURE SIZED TO ACCOMMODATE ALL COMPONENTS AS REQUIRED. PROVIDE A 240V RATED CABINET WITH 120V COIL, GE OR EQUAL. MAXIMUM WIDTH 24", MAXIMUM DEPTH 12". RE: ENLARGED KITCHEN PLAN
5. HOOD CONTACTOR CABINET 'HCC.' PROVIDE NEMA 1 ENCLOSURE SIZED TO ACCOMMODATE ALL COMPONENTS AS REQUIRED. PROVIDE A 480V RATED CABINET WITH 120V COIL, GE OR EQUAL. MAXIMUM WIDTH 24", MAXIMUM DEPTH 12". RE: ENLARGED KITCHEN PLAN
6. HOOD CONTROLLER WITH REMOTE MOUNTED SWITCHES INSTALLED BY ELECTRICAL CONTRACTOR FOR HOOD EXHAUST FAN AND LIGHTING CONTROL. CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN. RE: ENLARGED KITCHEN PLAN.
7. SWITCHES FOR HOOD LIGHTS AND FAN CONTROL TO BE REMOTE MOUNTED BY ELECTRICAL CONTRACTOR. VERIFY SWITCH TYPE AND LOCATION WITH HOOD INSTALLER PRIOR TO ROUGH-IN.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. 2-POLE PILOT SWITCH FOR DISHWASHER HOOD FAN. SWITCH LIT IN ON POSITION. ROUTE TO DISHWASHER HOOD FAN LOCATED ON ROOF. VERIFY SWITCH LOCATION PRIOR TO ROUGH-IN. LABEL SWITCH "DISHWASHER EXHAUST". RE: ELECTRICAL ROOF PLAN – AREA E.
2. CONNECTION FOR COOLER/FREEZER FAN COILS. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER PRIOR TO ROUGH-IN. PROVIDE DISCONNECTING MEANS AS REQUIRED.
3. PROVIDE 3/4" CONDUIT AND CONTROL CONDUCTORS AS NECESSARY BETWEEN THE INTERIOR AND EXTERIOR MECHANICAL UNITS. COORDINATE WITH MECHANICAL CONTRACTOR AND KITCHEN WALK-IN COOLER/FREEZER SUPPLIER.
4. PROVIDE LOCKOUT BREAKER IN PANEL AT POSITION INDICATED.
5. FURNISH AND INSTALL HEAT TAPE FOR WALK-IN DOOR AND CONDENSATE LINE DEFROST. COORDINATE CONNECTION AND HEAT TAPE REQUIREMENTS FOR BOTH FREEZER AND COOLER WITH WALK-IN SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.
6. PROVIDE GFEP BREAKER IN PANEL FOR EQUIPMENT PROTECTION (30mA).
7. PROVIDE CONNECTION FOR MOTORIZED ROLLUP DOOR AND CONTROL SWITCH. VERIFY SWITCH LOCATION PRIOR TO ROUGH-IN.
8. JUNCTION BOX FOR HOOD LIGHTS AND FAN CONTROLS MOUNTED AT 46" AFF. VERIFY CONTROL INTERFACE LOCATION AND BOX REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
9. CONNECTION FOR HOOD CONTROL PANEL AND LIGHTS. COORDINATE CONNECTION LOCATIONS WITH HOOD INSTALLER PRIOR TO ROUGH-IN. RE:KITCHEN HOOD CONTACTOR CABINET DETAIL. GROUND FAULT RELAY CABINET 'GFR' TO BE FLUSH MOUNTED NEXT TO PANEL 'K.
10. HOOD CONTACTOR CABINET 'HCC'. CABINET TO BE LOCATED ABOVE ACCESSIBLE CEILING OR IN HOOD. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH HOOD INSTALLER/SUPPLIER PRIOR TO ROUGH-IN.
11. GROUND FAULT RELAY CABINET 'GFR'. CABINET TO BE LOCATED ABOVE ACCESSIBLE CEILING NEAR PANEL 'K'. RE: GROUND FAULT RELAY CABINET DETAIL.
12. ABOVE COUNTER RECEPTACLE. COORDINATE HEIGHT WITH COUNTER SUPPLIER TO ENSURE RECEPTACLE IS ABOVE STAINLESS BACKSPLASH PRIOR TO ROUGH-IN.
13. CONNECTION FOR FOOD WASTE DISPOSAL. PROVIDE WITH HOBART CONTROL GROUP 5 OR 6, NEMA4 DISPOSER CONTROL BOX. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING CONTROL BOX BASED ON WATER TIMER SELECTION CIRCUIT.
14. DISCONNECTING MEANS TO BE LOCATED BELOW THE COUNTER. COORDINATE LOCATION TO ENSURE ACCESSIBILITY.
15. ROUTE CIRCUIT THROUGH HOOD CONTACTOR CABINET 'HCC'. RE: HOOD CONCATOR CABINET DETAIL.
16. ROUTE CIRCUIT THROUGH THE GROUND FAULT RELAY PANEL 'GFR'. RE: GROUND FAULT REALAY CABINET DETAIL.

Keyed Plan



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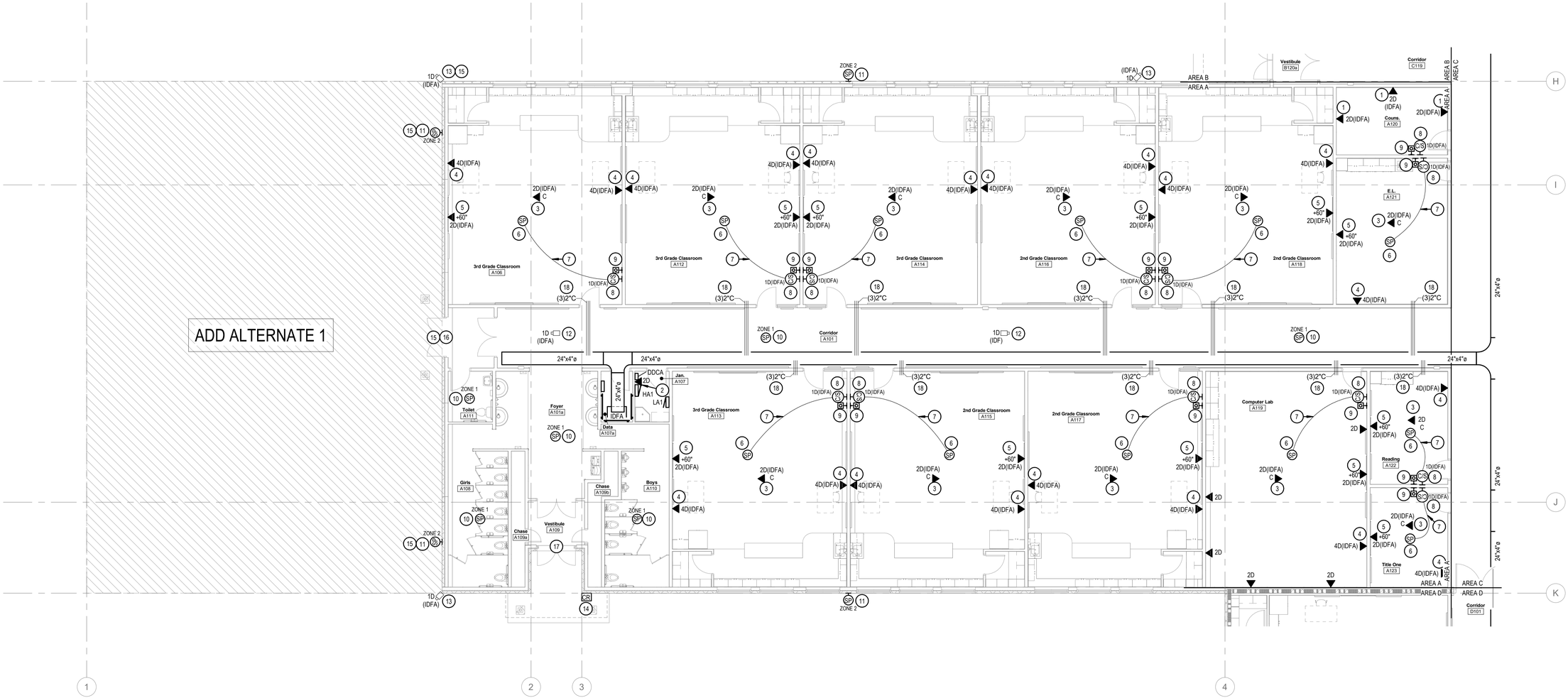
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E6.8
ENLARGED KITCHEN PLAN



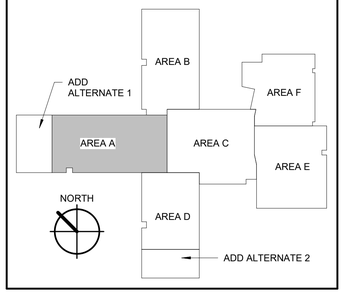
1 SPECIAL SYSTEMS PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
2. PROVIDE DATA OUTLET FOR THE DDC SYSTEM CONTROL PANEL. VERIFY PANEL LOCATION WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
3. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
4. TEACHERS STATION WHISKER FACEPLATE. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING RE:CLASSROOM TEACHER STATION DETAIL.
5. CLASSROOM TV DATA AND A/V. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED FROM DATA OUTLET, TO THE DATA RACK INDICATD. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE:CLASSROOM TV DETAIL.
6. FURNISH AND INSTALL CEILING MOUNTED TOPCAT CLASSROOM AMPLIFICATION SPEAKER WITH (2) FLEXMICS, MEDIA CONNECT, AND PAGE FIRST. RE:POWER PLANS
7. INSTALL THE 50-FOOT, 18/2 CABLE BETWEEN THE WALL SPEAKER/CLOCK AND THE CLASSROOM AMPLIFICATION SYSTEM SPEAKER TO ALLOW THE INTERCOM SYSTEM TO OVER-RIDE THE CLASSROOM AMPLIFICATION SYSTEM AND UTILIZE THE ASSOCIATED SPEAKERS DURING ANNOUNCEMENTS. 18/2 CABLE PROVIDED WITH THE CLASSROOM AMPLIFICATION SYSTEM. TERMINATE THE CABLE AT EACH END PER THE INTERCOM INSTALLATION INSTRUCTIONS.
8. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
9. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
10. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK.
11. EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK. MOUNT SPEAKER AT 11'-0" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
12. INTERIOR SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING, OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN DATA RACK INDICATED.
13. EXTERIOR WALL MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN THE DATA RACK INDICATED.
14. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
15. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS. REFER TO ADD ALTERNATE SPECIAL SYSTEMS PLANS FOR LOCATION UNDER ADD ALTERNATE CONDITIONS.
16. STUB (1)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
17. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. ACCESS CONTROL CABLING TO BE FURNISHED BY EDNETICS. RE: DOOR ACCESS CONTROL DETAIL
18. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

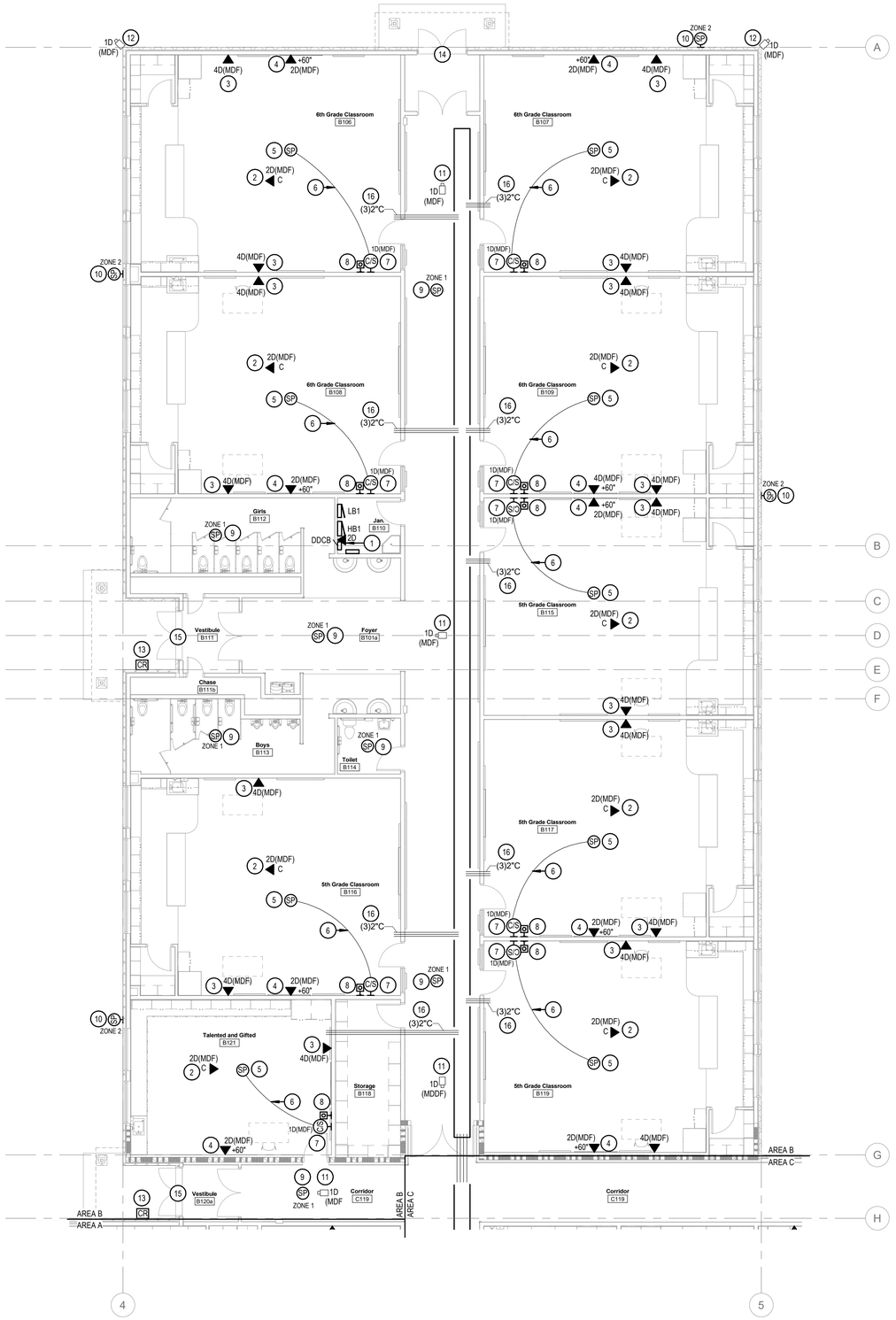
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E7.1
SPECIAL SYSTEMS PLAN – AREA A



1 SPECIAL SYSTEMS PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE DATA OUTLET FOR THE DDC SYSTEM CONTROL PANEL. VERIFY PANEL LOCATION WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
2. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
3. TEACHERS STATION WHISKER FACEPLATE. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING RE:CLASSROOM TEACHER STATION DETAIL.
4. CLASSROOM TV DATA AND A/V. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED FROM DATA OUTLET, TO THE DATA RACK INDICATD. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE:CLASSROOM TV DETAIL.
5. FURNISH AND INSTALL CEILING MOUNTED TOPCAT CLASSROOM AMPLIFICATION SPEAKER WITH (2) FLEXMICS, MEDIA CONNECT, AND PAGE FIRST. RE:POWER PLANS
6. INSTALL THE 50-FOOT, 18/2 CABLE BETWEEN THE WALL SPEAKER/CLOCK AND THE CLASSROOM AMPLIFICATION SYSTEM SPEAKER TO ALLOW THE INTERCOM SYSTEM TO OVER-RIDE THE CLASSROOM AMPLIFICATION SYSTEM AND UTILIZE THE ASSOCIATED SPEAKERS DURING ANNOUNCEMENTS. 18/2 CABLE PROVIDED WITH THE CLASSROOM AMPLIFICATION SYSTEM. TERMINATE THE CABLE AT EACH END PER THE INTERCOM INSTALLATION INSTRUCTIONS.
7. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
8. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
9. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK.
10. EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK. MOUNT SPEAKER AT 11'-0" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
11. INTERIOR SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING, OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN DATA RACK INDICATED.
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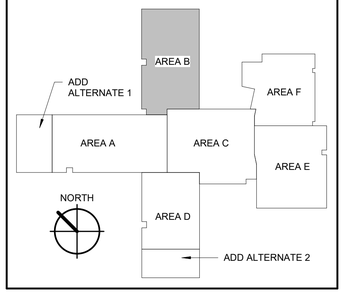
14. STUB (1)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
15. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. ACCESS CONTROL CABLING TO BE FURNISHED BY EDNETICS. RE: DOOR ACCESS CONTROL DETAIL
16. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

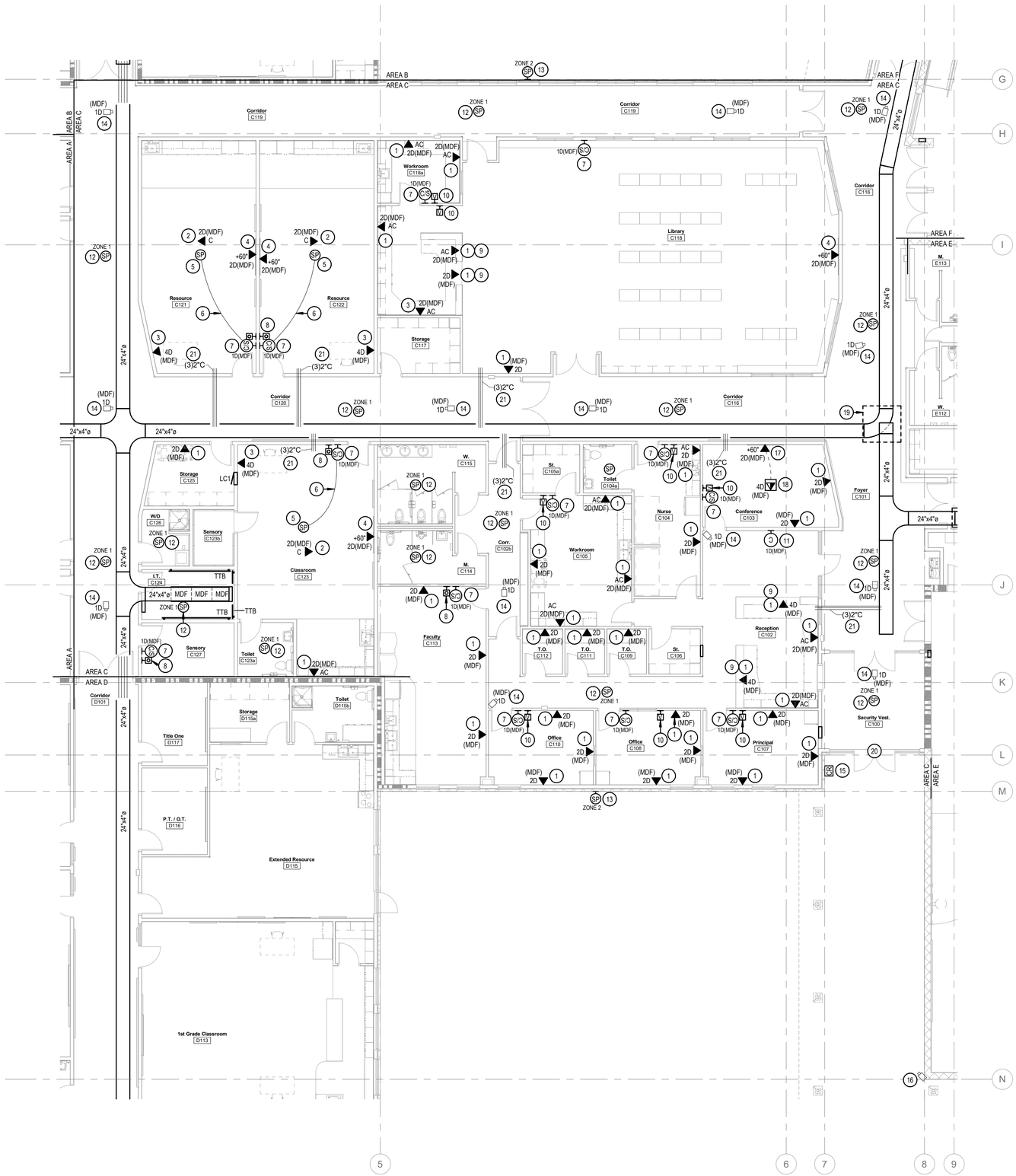
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E7.2
SPECIAL SYSTEMS PLAN - AREA B



1 SPECIAL SYSTEMS PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
2. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
3. TEACHERS STATION WHISKER FACEPLATE. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING RE:CLASSROOM TEACHER STATION DETAIL.
4. CLASSROOM TV DATA AND A/V. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED FROM DATA OUTLET, TO THE DATA RACK INDICATD. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE:CLASSROOM TV DETAIL.
5. FURNISH AND INSTALL CEILING MOUNTED TOPCAT CLASSROOM AMPLIFICATION SPEAKER WITH (2) FLEXMICS, MEDIA CONNECT, AND PAGE FIRST. RE:POWER PLANS
6. INSTALL THE 50-FOOT, 18/2 CABLE BETWEEN THE WALL SPEAKER/CLOCK AND THE CLASSROOM AMPLIFICATION SYSTEM SPEAKER TO ALLOW THE INTERCOM SYSTEM TO OVER-RIDE THE CLASSROOM AMPLIFICATION SYSTEM AND UTILIZE THE ASSOCIATED SPEAKERS DURING ANNOUNCEMENTS. 18/2 CABLE PROVIDED WITH THE CLASSROOM AMPLIFICATION SYSTEM. TERMINATE THE CABLE AT EACH END PER THE INTERCOM INSTALLATION INSTRUCTIONS.
7. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
8. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
9. DATA RECEPTACLE MOUNTED IN MILLWORK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
10. VOLUME CONTROL FOR CLOCK AND SPEAKER COMBINATION UNIT. PROVIDE VOLUME BUTTON AND CABLING COMPATIBLE WITH INTERCOM SYSTEM AS REQUIRED. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
11. PROVIDE SURFACE MOUNTED IP CLOCK READERBOARD UNIT AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM READERBOARD UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
12. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK.
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15. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
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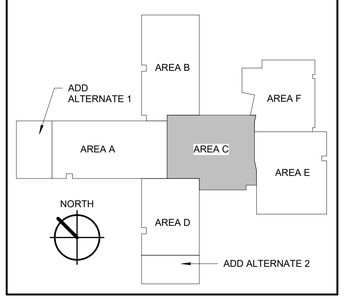
17. TV DATA AND A/V BOX MOUNTED AT HEIGHT INDICATED. PROVIDE 2-GANG JUNCTION BOX AND STUB A 1" CONDIT TO VOID ABOVE ACCESSIBLE CEILING AND A 1-1/4" CONDUIT FROM THE A/V BOX TO THE FLOOR BOX IN THIS ROOM. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATION AND TEST ALL CABLING.
18. MULTI-SERVICE FLOOR BOX. PROVIDE 1" CONDUIT FROM FLOOR BOX TO THE VOID ABOVE THE ACCESSIBLE CEILING FOR DATA CABLING. PROVIDE A 1-1/4" CONDUIT FROM THE FLOOR BOX TO THE A/V BOX AT THE TV FOR HDMI CABLE ROUTING. CABLING TO BE FURNISHED BY EDNETICS. RE:POWER PLAN – AREA C.
19. CABLE TRAY IN THIS LOCATION AT DIFFERING HEIGHTS. COORDINATE CABLE TRAY ROUTING WITH OTHER DISCIPLINES AND WALL PENETRATIONS ABOVE ACCESSIBLE CEILING. PROVIDE TRANSITION FROM CABLE TRAY ABOVE TO CABLE TRAY BELOW TO SUPPORT CABLES.
20. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. ACCESS CONTROL CABLING TO BE FURNISHED BY EDNETICS. RE: DOOR ACCESS CONTROL DETAIL
21. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
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#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

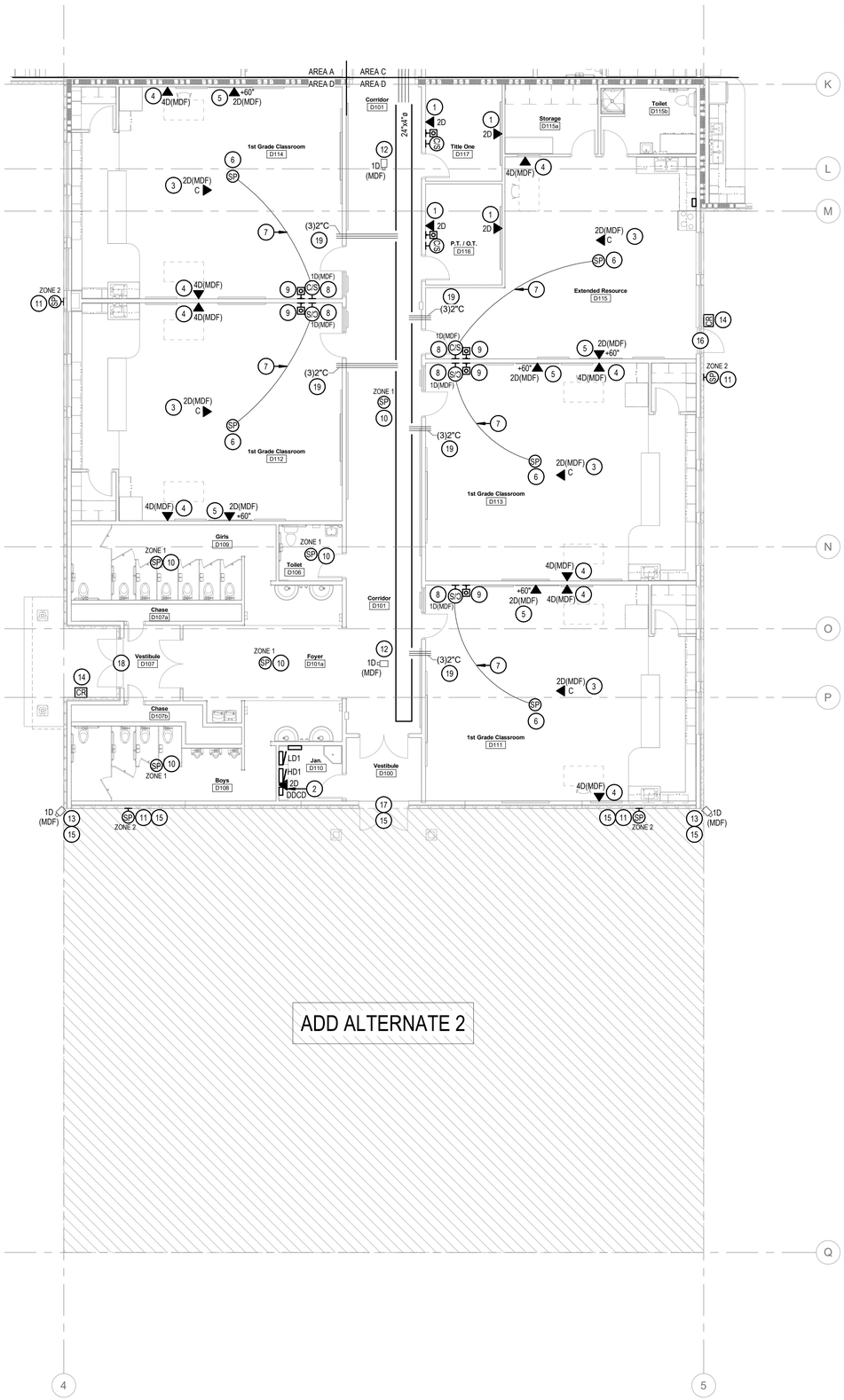
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E7.3
SPECIAL SYSTEMS PLAN – AREA C



1 SPECIAL SYSTEMS PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
2. PROVIDE DATA OUTLET FOR THE DDC SYSTEM CONTROL PANEL. VERIFY PANEL LOCATION WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
3. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
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6. FURNISH AND INSTALL CEILING MOUNTED TOPCAT CLASSROOM AMPLIFICATION SPEAKER WITH (2) FLEXMICS, MEDIA CONNECT, AND PAGE FIRST. RE:POWER PLANS
7. INSTALL THE 50-FOOT, 18/2 CABLE BETWEEN THE WALL SPEAKER/CLOCK AND THE CLASSROOM AMPLIFICATION SYSTEM SPEAKER TO ALLOW THE INTERCOM SYSTEM TO OVER-RIDE THE CLASSROOM AMPLIFICATION SYSTEM AND UTILIZE THE ASSOCIATED SPEAKERS DURING ANNOUNCEMENTS. 18/2 CABLE PROVIDED WITH THE CLASSROOM AMPLIFICATION SYSTEM. TERMINATE THE CABLE AT EACH END PER THE INTERCOM INSTALLATION INSTRUCTIONS.
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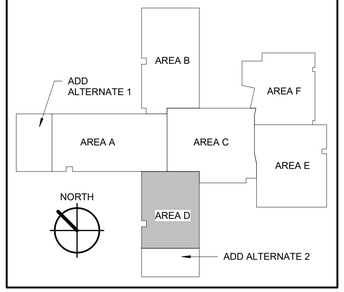
11. EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK. MOUNT SPEAKER AT 11'-0" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
12. INTERIOR SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING, OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN DATA RACK INDICATED.
13. EXTERIOR WALL MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN THE DATA RACK INDICATED.
14. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
15. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS. REFER TO ADD ALTERNATE SPECIAL SYSTEMS PLANS FOR LOCATION UNDER ADD ALTERNATE CONDITIONS.
16. STUB (2)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR AND ONE CONDUIT INTO THE FRAME AT THE MIDDLE HINGE. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
17. STUB (1)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
18. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. ACCESS CONTROL CABLING TO BE FURNISHED BY EDNETICS. RE: DOOR ACCESS CONTROL DETAIL
19. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO AUDY LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

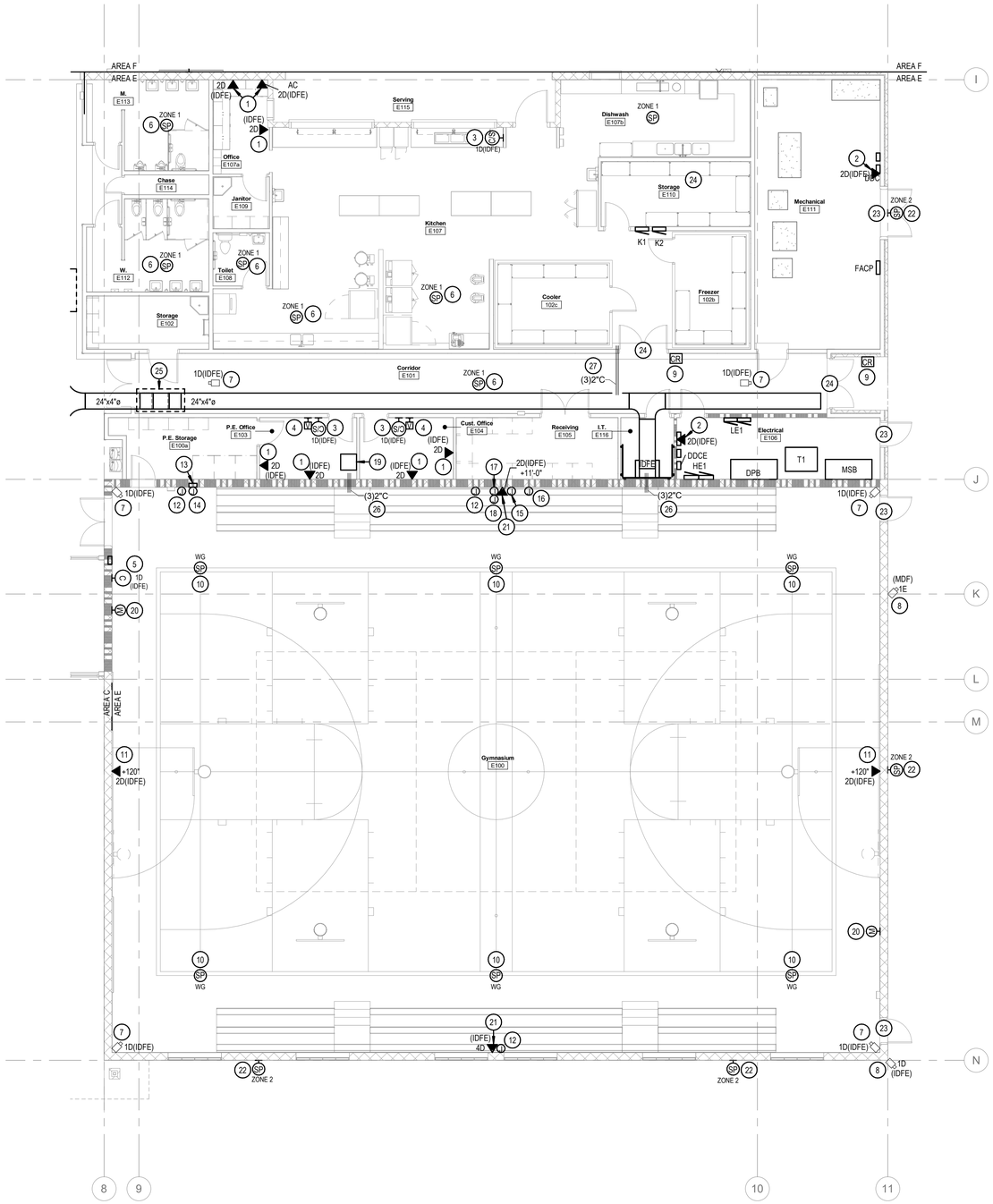
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E7.4
SPECIAL SYSTEMS PLAN - AREA D



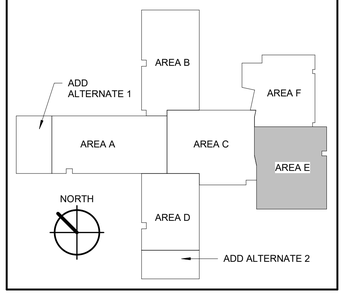
1 SPECIAL SYSTEMS PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
2. PROVIDE DATA OUTLET FOR THE DDC SYSTEM CONTROL PANEL. VERIFY PANEL LOCATION WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
3. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
4. VOLUME CONTROL FOR CLOCK AND SPEAKER COMBINATION UNIT. PROVIDE VOLUME BUTTON AND CABLING COMPATIBLE WITH INTERCOM SYSTEM AS REQUIRED. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
5. PROVIDE SURFACE MOUNTED IP CLOCK READERBOARD UNIT AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM READERBOARD UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
6. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK.
7. INTERIOR SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING, OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN DATA RACK INDICATED.
8. EXTERIOR WALL MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN THE DATA RACK INDICATED.
9. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
10. ROOM SOUND SYSTEM SPEAKER MOUNTED AT THE BUILDING STRUCTURE. PROVIDE CONDUIT AND CABLING BETWEEN EACH SPEAKER THEN TO THE CORRESPONDING GYM OR CAFETERIA SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN P.E. OFFICE 103. COORDINATE LOCATION AND AIMING OF THE SPEAKER TO PROVIDE OPTIMAL PERFORMANCE WITHIN THE SPACE.
11. PROVIDE JUNCTION BOX IN WALL AT +12' AFF, UNO, FOR A WIRELESS ACCESS POINT (WAP). COORDINATE THE DATA OUTLET LOCATION WITH THE SCHOOL DISTRICT I.T. STAFF PRIOR TO INSTALLATION. PROVIDE 1" CONDUIT WITH DATA CABLES, QUANTITY AS INDICATED TO DATA RACK INDICATED. PROVIDE 18" OF SLACK IN THE BOX FOR CONNECTION TO OWNER PROVIDED WAP. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT I.T. STAFF AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
12. MICROPHONE AND AUXILIARY INPUT JACKS FOR GYM MOUNTED AT 1'-6" AFF. PROVIDE 3/4" CONDUIT AND CABLING AS REQUIRED TO THE GYM HEAD-END SOUND SYSTEM LOCATED IN P.E. OFFICE E103.
13. FLUSH MOUNTED REMOTE SOUND SYSTEM CONTROL PANEL MOUNTED AT 46" AFF. PROVIDE ENCLOSURE (HOFFMAN ASE SERIES OR EQUAL) WITH A LOCKABLE HINGED COVER (HOFFMAN AFDF SERIES WITH AN ACLFDF LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL CONTROLS. CONTROL DEVICES SHALL BE INSTALLED IN JUNCTION BOXES. ALL CONDUCTORS AND CABLING WITHIN THE ENCLOSURE ARE TO BE CONCEALED SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM ENCLOSURE TO BUILDING STRUCTURE. PROVIDE (2)1" CONDUIT WITH CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END UNIT LOCATED IN P.E. OFFICE E103. LOCK SHALL BE KEYED TO MATCH THE SCHOOL MASTER KEY SYSTEM.
14. REMOTE SOUND SYSTEM VOLUME CONTROLS. PROVIDE 3-GANG BOX FOR REMOTE SOUND SYSTEM HEAD END CONTROLS AND BLUETOOTH CONTROLS. CONTROLS ARE TO BE LOCATED IN FLUSH MOUNTED LOCKABLE ENCLOSURE.
15. REMOTE SOUND SYSTEM ANTENNA WITH WIRE GUARD FOR SOUND SYSTEM IN THIS ROOM MOUNTED AT BOTTOM OF ROOF DECK. PROVIDE 1" CONDUIT AND CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN P.E. OFFICE E103.
16. REMOTE ALS SOUND SYSTEM ANTENNA WITH WIRE GUARD FOR SOUND SYSTEM IN THIS ROOM MOUNTED AT BOTTOM OF ROOF DECK. PROVIDE 1" CONDUIT AND CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN P.E. OFFICE E103.
17. JUNCTION BOX FOR SCOREBOARD CONTROL CABLING MOUNTED AT 1'-6" AFF. PROVIDE 1" CONDUIT FROM SCOREBOARD CONTROLS TO JUNCTION BOX AT SCOREBOARD. PROVIDE BLANK COVER PLATE.
18. PROVIDE JUNCTION BOX WITH BLANK COVER PLATE AT 11'-0" FOR SCOREBOARD CONTROLS. VERIFY SCOREBOARD LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
19. GYM SOUND SYSTEM HEAD-END EQUIPMENT FOR GYMNASIUM MOUNTED ON THE WALL SUCH THAT THE TOP OF THE RACK IS 6'-0" AFF.
20. WALL MOUNTED MOTION SENSOR. PROVIDE JUNCTION BOX AND COVER PLATE AT 10'-0" AFF AND STUB 3/4" CONDUIT TO THE BUILDING STRUCTURE. COORDINATE WITH ACCESS CONTROLS CONTRACTOR FOR BACKBOX HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
21. PROVIDE 1" CONDUIT FROM DATA OUTLET TO STRUCTURE AND ROUTE TO NEAREST ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
22. EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK. MOUNT SPEAKER AT 11'-0" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
23. STUB (1)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
24. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. ACCESS CONTROL CABLING TO BE FURNISHED BY EDNETICS. RE: DOOR ACCESS CONTROL DETAIL
25. CABLE TRAY IN THIS LOCATION AT DIFFERING HEIGHTS. COORDINATE CABLE TRAY ROUTING WITH OTHER DISCIPLINES AND WALL PENETRATIONS ABOVE ACCESSIBLE CEILING. PROVIDE TRANSITION FROM CABLE TRAY ABOVE TO CABLE TRAY BELOW TO SUPPORT CABLES.
26. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE INDICATED, FROM AT STRUCTURE, INSIDE CMU WALL AND STUBBED INTO ABOVE 'IDFE' CABLE TRAY ABOVE DATA RACK.
27. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

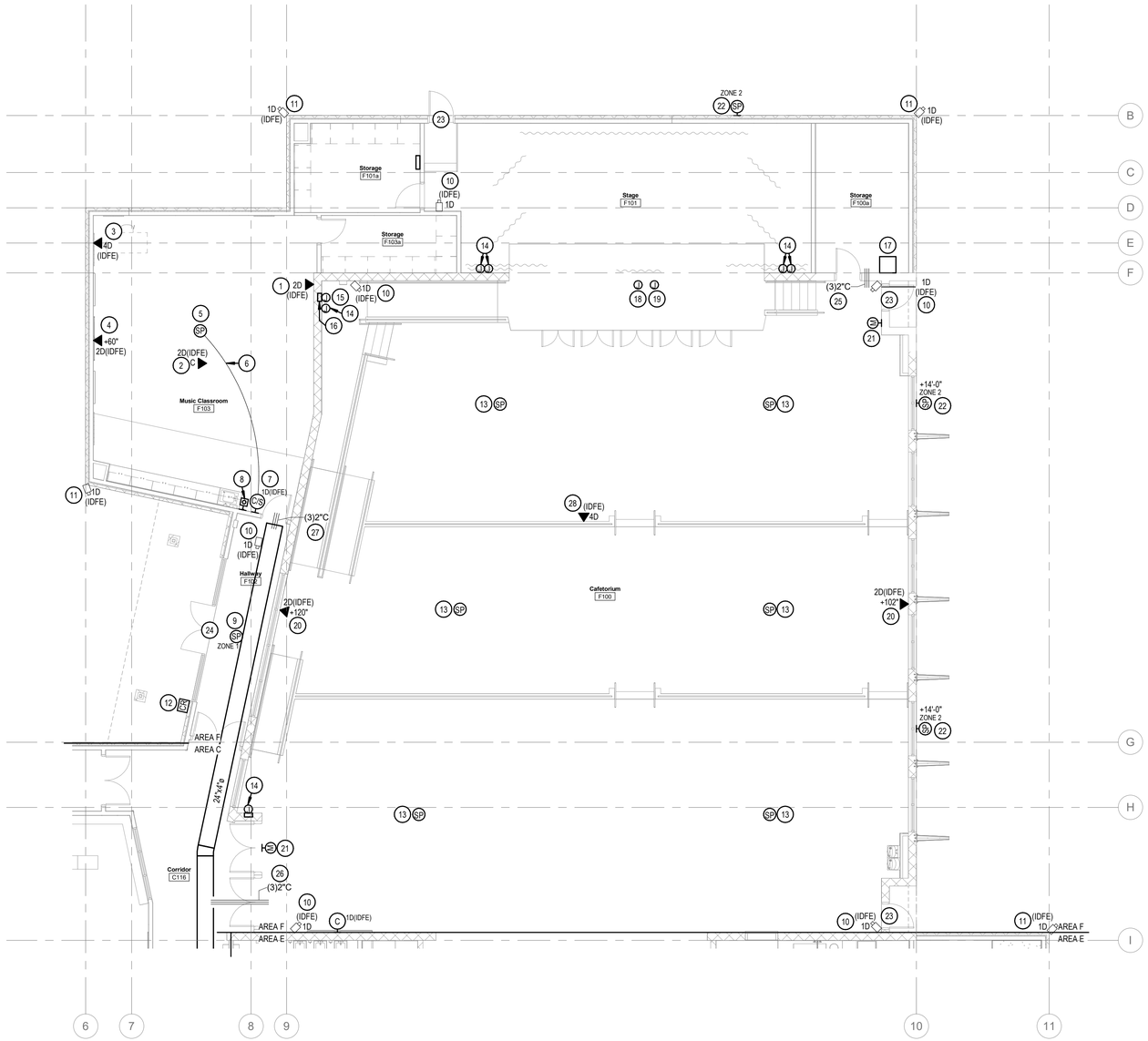
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E7.5
SPECIAL SYSTEMS PLAN - AREA E



1 SPECIAL SYSTEMS PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
2. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
3. TEACHERS STATION WHISKER FACEPLATE. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING RE:CLASSROOM TEACHER STATION DETAIL.
4. CLASSROOM TV DATA AND A/V. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED FROM DATA OUTLET, TO THE DATA RACK INDICATD. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE:CLASSROOM TV DETAIL.
5. FURNISH AND INSTALL CEILING MOUNTED TOPCAT CLASSROOM AMPLIFICATION SPEAKER WITH (2) FLEXMICS, MEDIA CONNECT, AND PAGE FIRST. RE:POWER PLANS
6. INSTALL THE 50-FOOT, 18/2 CABLE BETWEEN THE WALL SPEAKER/CLOCK AND THE CLASSROOM AMPLIFICATION SYSTEM SPEAKER TO ALLOW THE INTERCOM SYSTEM TO OVER-RIDE THE CLASSROOM AMPLIFICATION SYSTEM AND UTILIZE THE ASSOCIATED SPEAKERS DURING ANNOUNCEMENTS. 18/2 CABLE PROVIDED WITH THE CLASSROOM AMPLIFICATION SYSTEM. TERMINATE THE CABLE AT EACH END PER THE INTERCOM INSTALLATION INSTRUCTIONS.
7. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0' UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
8. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
9. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK.
10. INTERIOR SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING, OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN DATA RACK INDICATED.
11. EXTERIOR WALL MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN THE DATA RACK INDICATED.
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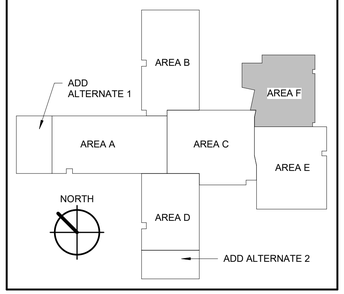
13. ROOM SOUND SYSTEM SPEAKER MOUNTED AT THE BUILDING STRUCTURE. PROVIDE CONDUIT AND CABLING BETWEEN EACH SPEAKER THEN TO THE CORRESPONDING GYM OR CAFETERIA SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN P.E. OFFICE 103. COORDINATE LOCATION AND AIMING OF THE SPEAKER TO PROVIDE OPTIMAL PERFORMANCE WITHIN THE SPACE.
14. MICROPHONE AND AUXILIARY INPUT JACKS FOR GYM MOUNTED AT 1'-6" AFF. PROVIDE 3/4" CONDUIT AND CABLING AS REQUIRED TO THE GYM HEAD-END SOUND SYSTEM LOCATED IN P.E. OFFICE E103.
15. REMOTE SOUND SYSTEM VOLUME CONTROLS. PROVIDE 3-GANG BOX FOR REMOTE SOUND SYSTEM HEAD END CONTROLS AND BLUETOOTH CONTROLS. CONTROLS ARE TO BE LOCATED IN FLUSH MOUNTED LOCKABLE ENCLOSURE.
16. FLUSH MOUNTED REMOTE SOUND SYSTEM CONTROL PANEL MOUNTED AT 46" AFF. PROVIDE ENCLOSURE (HOFFMAN ASE SERIES OR EQUAL) WITH A LOCKABLE HINGED COVER (HOFFMAN AFDF SERIES WITH AN ACLFDF LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL CONTROLS. CONTROL DEVICES SHALL BE INSTALLED IN JUNCTION BOXES. ALL CONDUCTORS AND CABLING WITHIN THE ENCLOSURE ARE TO BE CONCEALED SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM ENCLOSURE TO BUILDING STRUCTURE. PROVIDE (2)1" CONDUIT WITH CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END UNIT LOCATED IN STORAGE F100a. LOCK SHALL BE KEYED TO MATCH THE SCHOOL MASTER KEY SYSTEM.
17. GYM SOUND SYSTEM HEAD-END EQUIPMENT FOR CAFETORIUM MOUNTED ON THE WALL SUCH THAT THE TOP OF THE RACK IS 6'-0" AFF.
18. REMOTE SOUND SYSTEM ANTENNA WITH WIRE GUARD FOR SOUND SYSTEM IN THIS ROOM MOUNTED AT BOTTOM OF ROOF DECK. PROVIDE 1" CONDUIT AND CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN STORAGE F100a.
19. REMOTE ALS ANTENNA WITH WIRE GUARD FOR SOUND SYSTEM IN THIS ROOM MOUNTED AT BOTTOM OF ROOF DECK. PROVIDE 1" CONDUIT AND CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN STORAGE F100a.
20. PROVIDE JUNCTION BOX IN WALL AT +12' AFF. UNO, FOR A WIRELESS ACCESS POINT (WAP). COORDINATE THE DATA OUTLET LOCATION WITH THE SCHOOL DISTRICT I.T. STAFF PRIOR TO INSTALLATION. PROVIDE 1" CONDUIT WITH DATA CABLES, QUANTITY AS INDICATED TO DATA RACK INDICATED. PROVIDE 18" OF SLACK IN THE BOX FOR CONNECTION TO OWNER PROVIDED WAP. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT I.T. STAFF AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
21. WALL MOUNTED MOTION SENSOR. PROVIDE JUNCTION BOX AND COVER PLATE AT 10'-0" AFF AND STUB 3/4" CONDUIT TO THE BUILDING STRUCTURE. COORDINATE WITH ACCESS CONTROLS CONTRACTOR FOR BACKBOX HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
22. EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK. MOUNT SPEAKER AT 11'-0" AFF, UNO. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
23. STUB (1)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
24. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. ACCESS CONTROL CABLING TO BE FURNISHED BY EDNETICS. RE: DOOR ACCESS CONTROL DETAIL
25. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE INDICATED, FROM AT STRUCTURE, INSIDE CMU WALL AND STUBBED INTO ABOVE DATA RACK. TERMINATE WITH INSULATED THROAT BUSHINGS.
26. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE INDICATED, FROM AT STRUCTURE. INSIDE CMU WALL AND STUBBED TO ABOVE ACCESSIBLE CEILING AND EXTEND TO ABOVE THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.
27. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.
28. PROVIDE 1" CONDUIT FROM DATA OUTLET UNDERGROUND, TO NEAREST FULL HEIGHT WALL AND TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.

project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

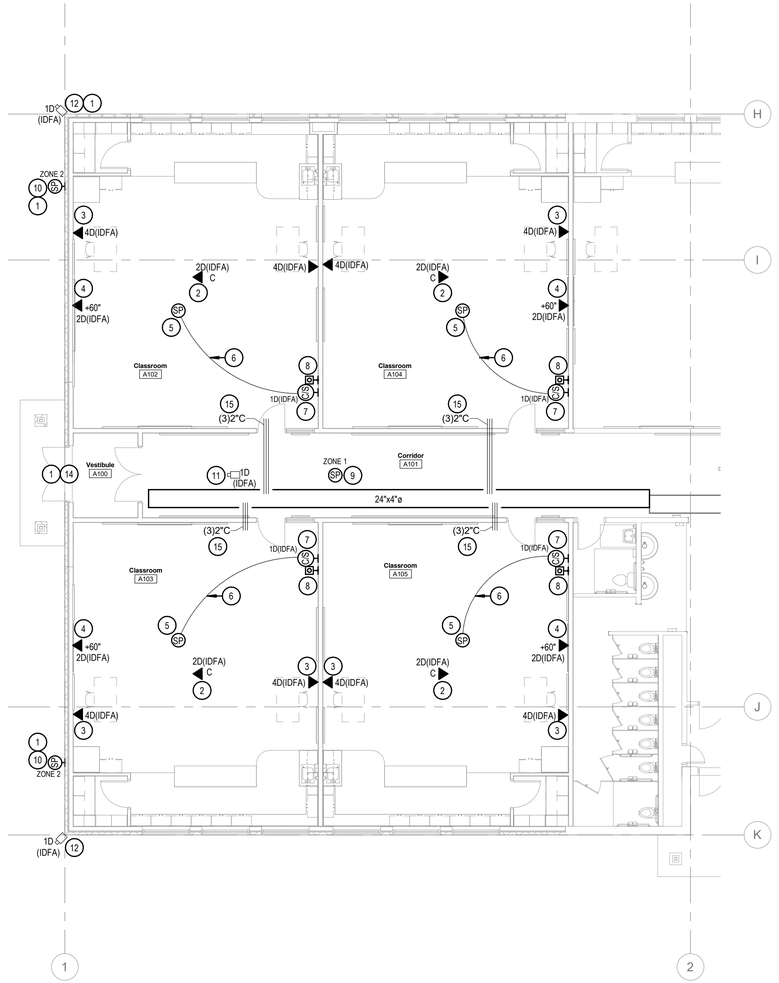
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

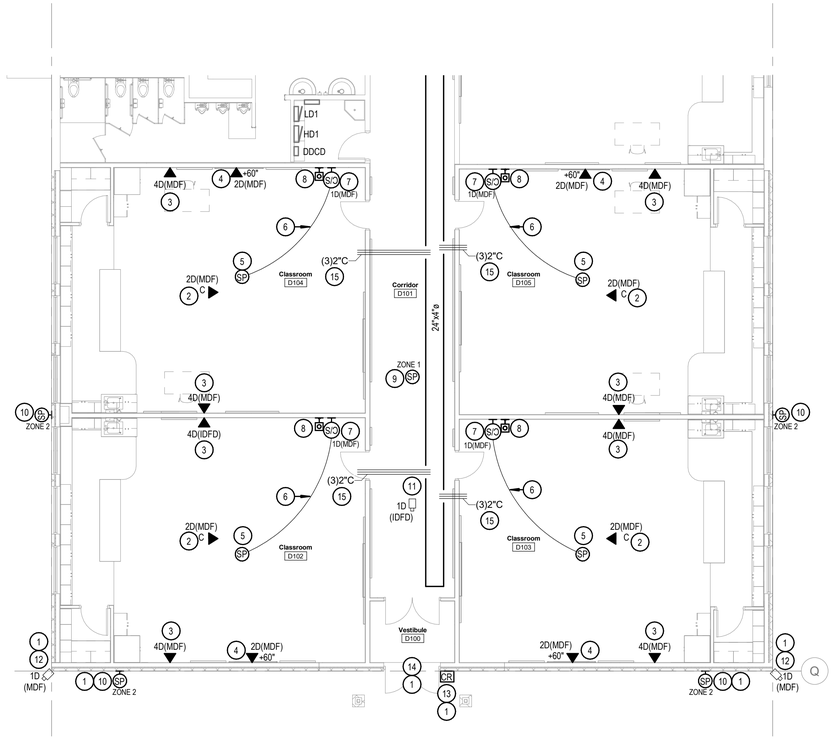
BID SET

DRAWING NO.:

E7.6
SPECIAL SYSTEMS PLAN - AREA F



1 SPECIAL SYSTEMS PLAN - ADD ALTERNATE 1
1/8" = 1'-0"



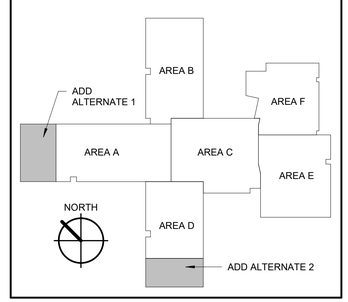
2 SPECIAL SYSTEMS PLAN - ADD ALTERNATE 2
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DEVICE IN THIS LOCATION UNDER ADD ALTERNATE CONDITIONS. REFER TO BASE BID CONDITIONS FOR LOCATION UNDER BASE BID CONDITIONS
2. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
3. TEACHERS STATION WHISKER FACEPLATE. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING RE:CLASSROOM TEACHER STATION DETAIL.
4. CLASSROOM TV DATA AND A/V. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHINGS. PROVIDE CABLING FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED FROM DATA OUTLET, TO THE DATA RACK INDICATD. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE:CLASSROOM TV DETAIL.
5. FURNISH AND INSTALL CEILING MOUNTED TOPCAT CLASSROOM AMPLIFICATION SPEAKER WITH (2) FLEXMICS, MEDIA CONNECT, AND PAGE FIRST. RE:POWER PLANS
6. INSTALL THE 50-FOOT, 18/2 CABLE BETWEEN THE WALL SPEAKER/CLOCK AND THE CLASSROOM AMPLIFICATION SYSTEM SPEAKER TO ALLOW THE INTERCOM SYSTEM TO OVER-RIDE THE CLASSROOM AMPLIFICATION SYSTEM AND UTILIZE THE ASSOCIATED SPEAKERS DURING ANNOUNCEMENTS. 18/2 CABLE PROVIDED WITH THE CLASSROOM AMPLIFICATION SYSTEM. TERMINATE THE CABLE AT EACH END PER THE INTERCOM INSTALLATION INSTRUCTIONS.
7. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0" UNO. PROVIDE 2-GANG MUDRING AND STUB 1" CONDUIT FROM MUDRING TO THE VOID ABOVE THE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. TERMINATE AND TEST CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
8. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
9. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK.
10. EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHS IN 'MDF' DATA RACK. MOUNT SPEAKER AT 11'-0" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
11. INTERIOR SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING, OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN DATA RACK INDICATED.
12. EXTERIOR WALL MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED, TO A DEDICATED PATCH PANEL IN THE DATA RACK INDICATED.
13. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
14. STUB (1)3/4" CONDUITS FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
15. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED, FROM WALL ABOVE THE ACCESSIBLE CEILING AND EXTEND TO THE CABLE TRAY. TERMINATE WITH INSULATED THROAT BUSHINGS.

Keyed Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

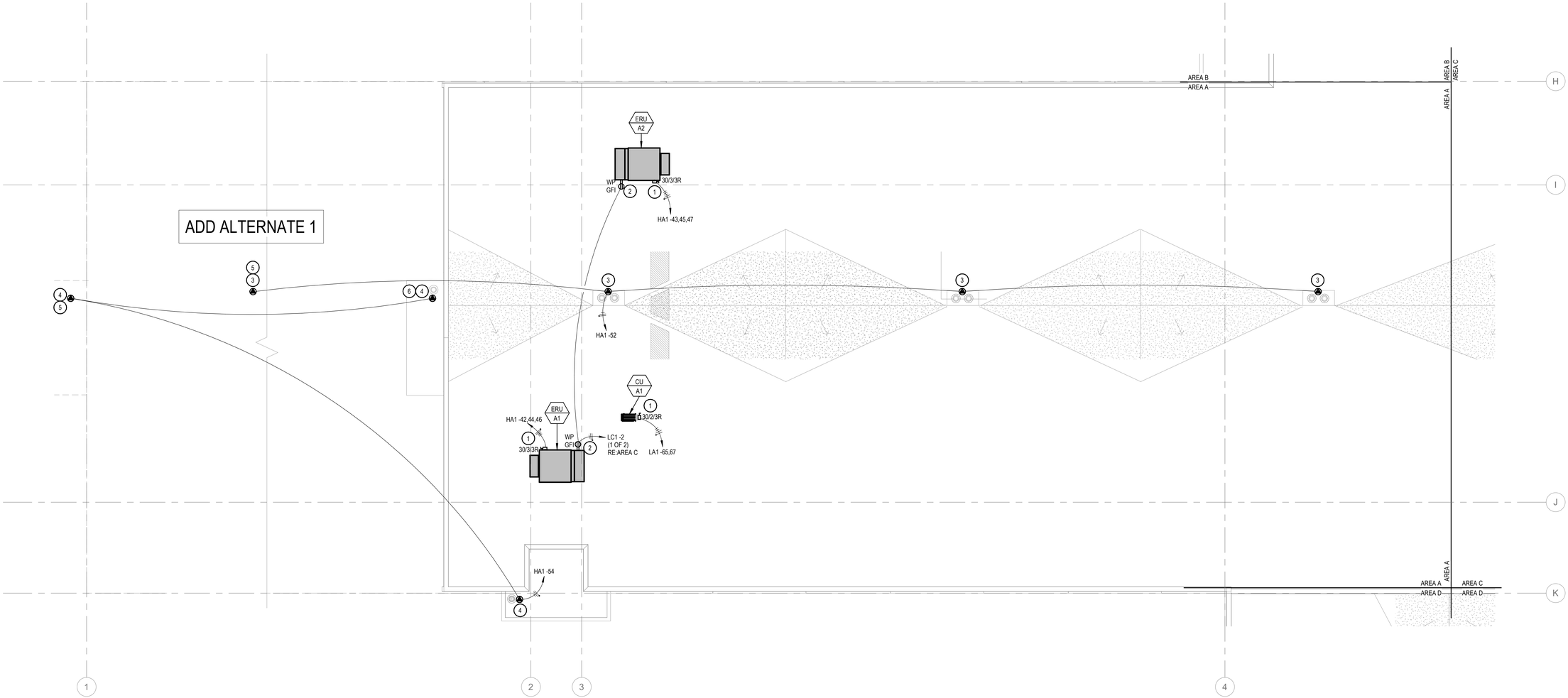
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E7.7
SPECIAL SYSTEM PLANS – ADD ALTERNATES 1 & 2



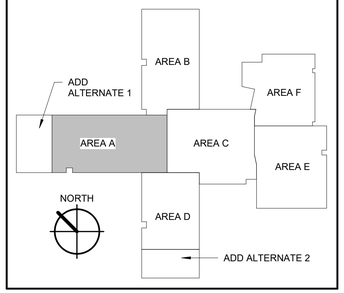
1 ELECTRICAL ROOF PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ONMECHANICAL UNIT WHERE APPLICABLE.
3. CONNECTION FOR ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
4. CONNECTION FOR CANOPY ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE TO GRADE AND 4' DOWN THE DRAINPIPE BELOW GRADE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
5. DEVICE IN THIS LOCATION UNDER ADD ALTERNATE CONDITIONS.
6. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS

Keyed Plan



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MUSGROVE ENGINEERING, P.A.
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Revisions

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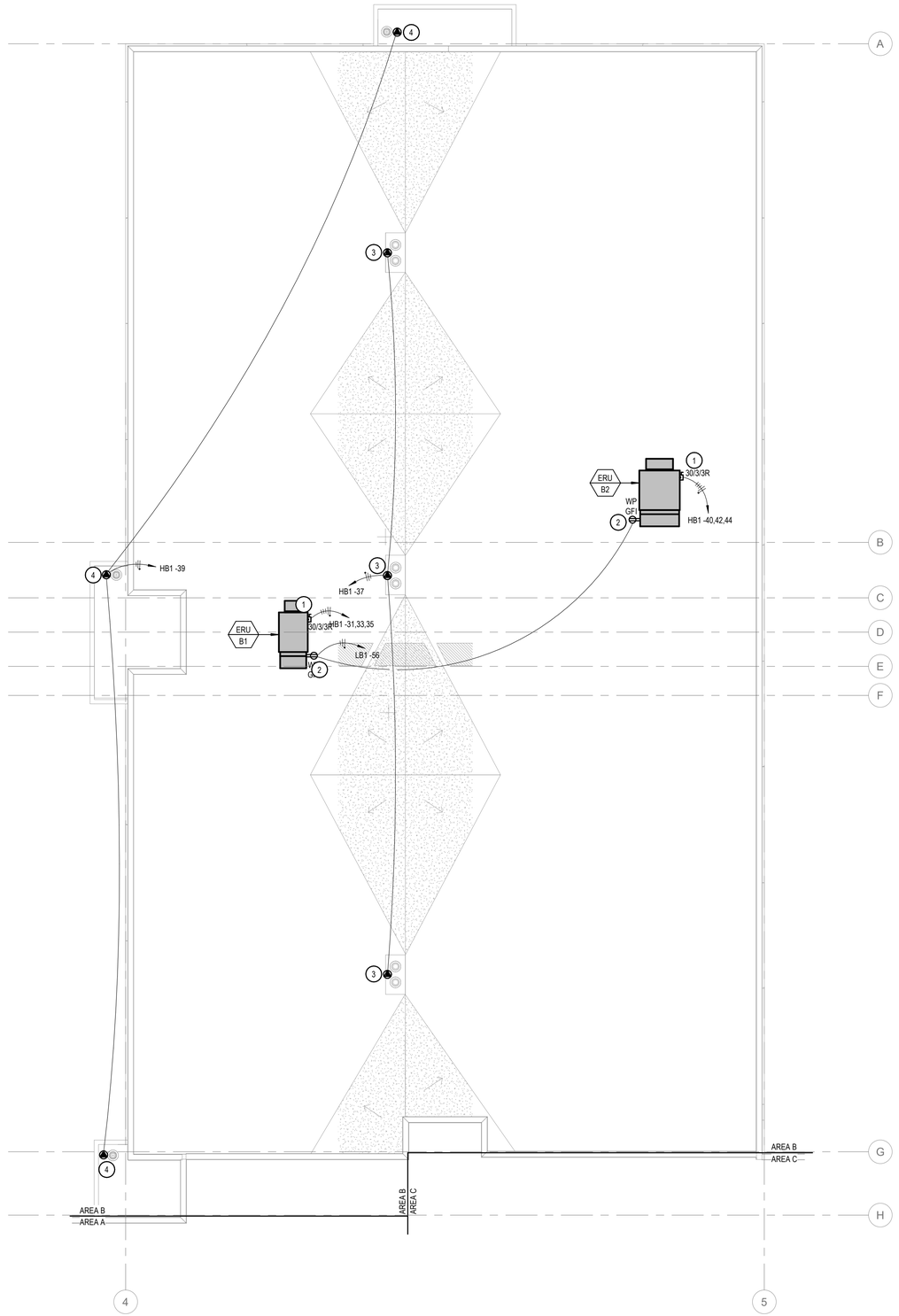
CHECKED BY: KL

BID SET

DRAWING NO.:

E8.1
ELECTRICAL ROOF PLAN – AREA A



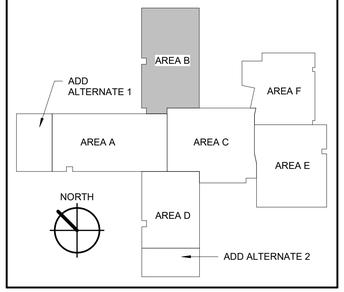
1 ELECTRICAL ROOF PLAN - AREA B
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ONMECHANICAL UNIT WHERE APPLICABLE.
3. CONNECTION FOR ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
4. CONNECTION FOR CANOPY ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE TO GRADE AND 4' DOWN THE DRAINPIPE BELOW GRADE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.

Keyed Plan



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MUSGROVE
ENGINEERING, P.A.
project number: 21-422

Revisions	Date
Description	
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Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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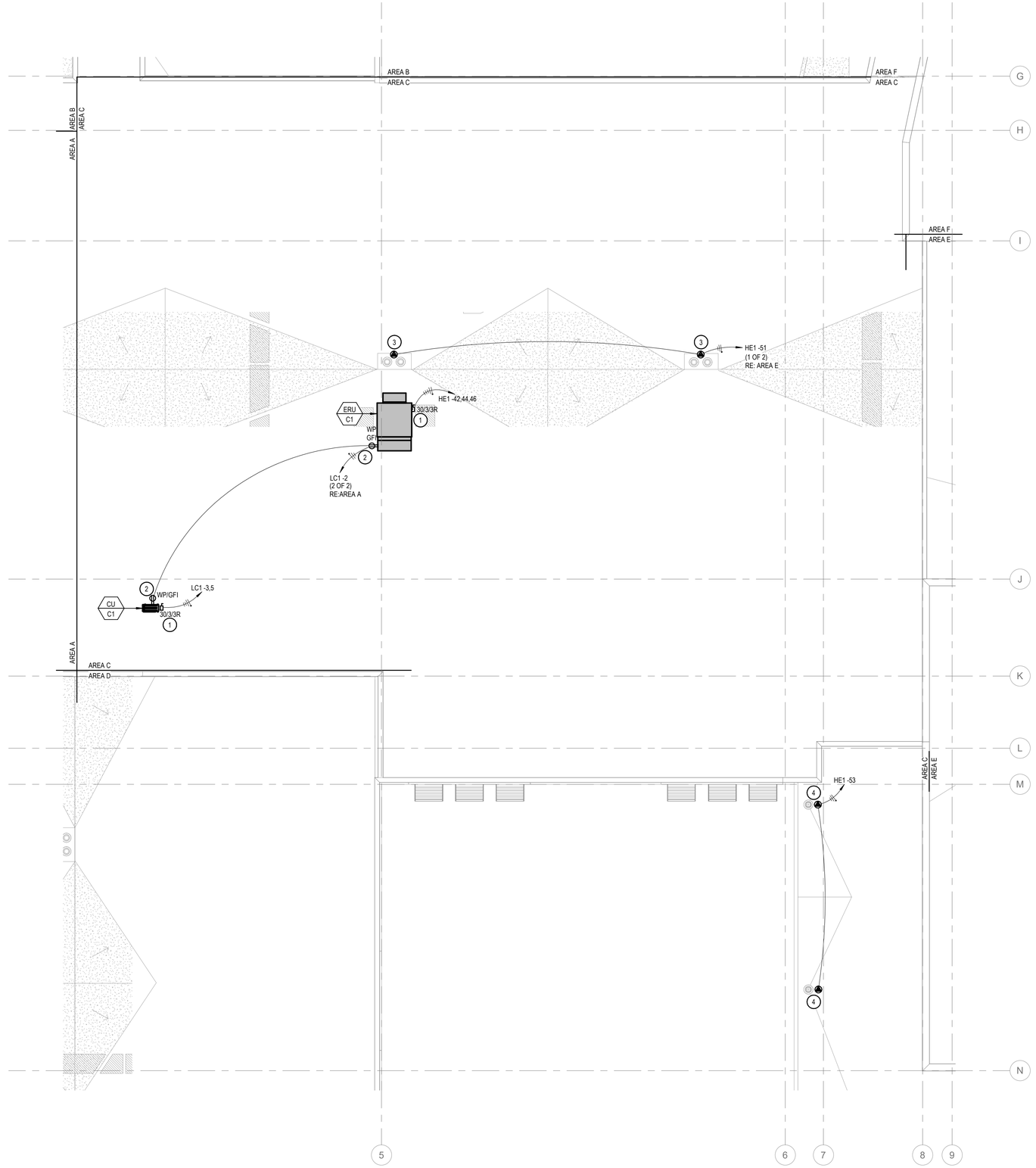
CHECKED BY: KL

BID SET

DRAWING NO.:

E8.2
ELECTRICAL ROOF PLAN - AREA B



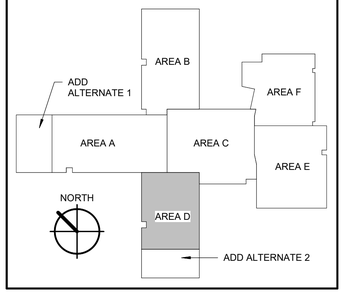
1 ELECTRICAL ROOF PLAN - AREA C
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ONMECHANICAL UNIT WHERE APPLICABLE.
3. CONNECTION FOR ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
4. CONNECTION FOR CANOPY ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE TO GRADE AND 4' DOWN THE DRAINPIPE BELOW GRADE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.

Keyed Plan



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project number: 21-422

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Date
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Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

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CHECKED BY: KL

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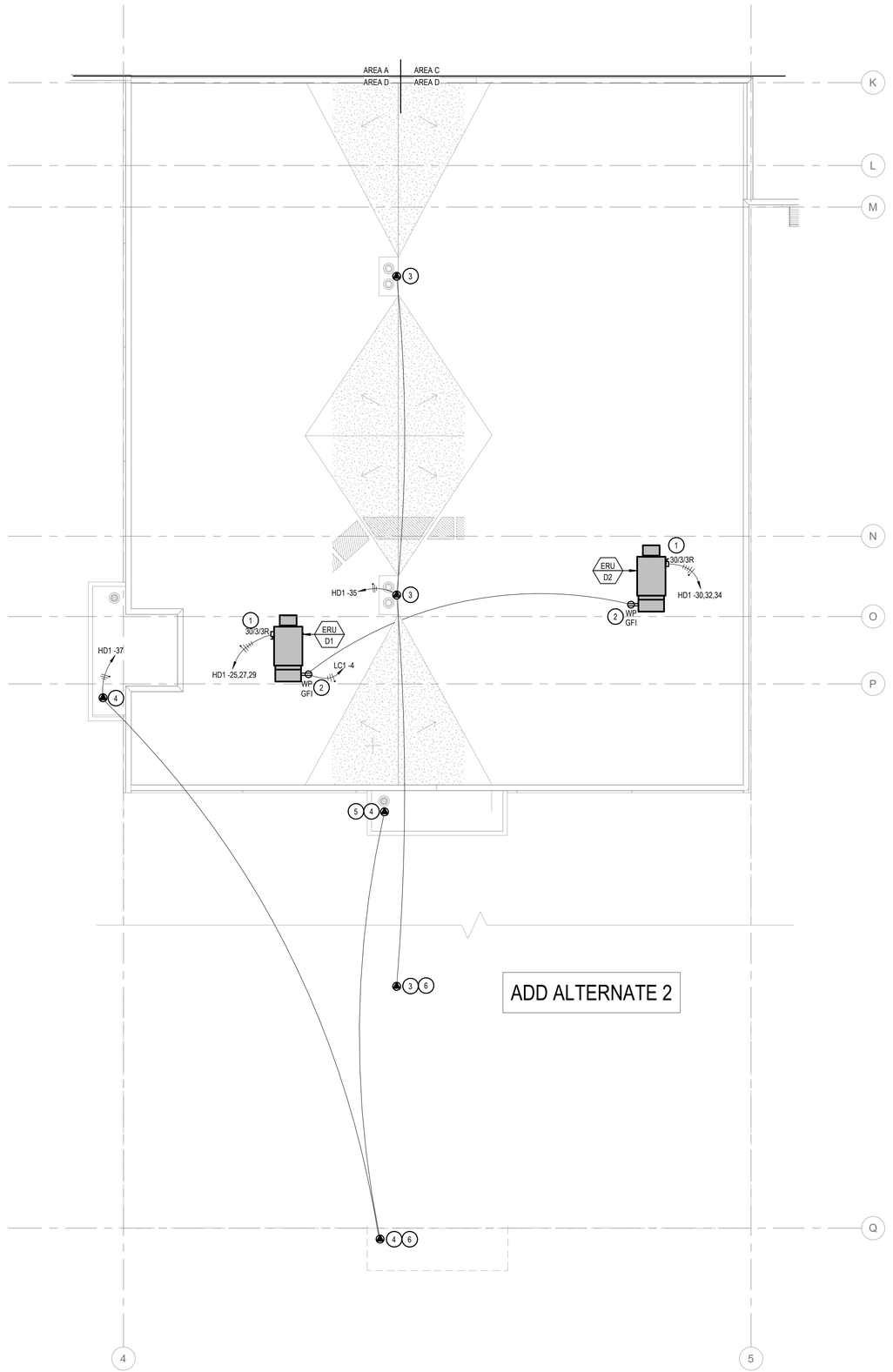
DRAWING NO.:

E8.3
ELECTRICAL ROOF PLAN - AREA C



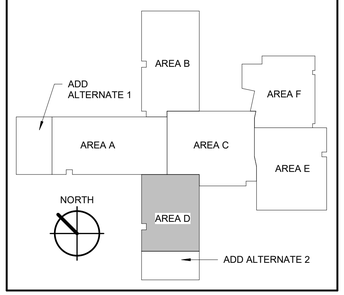
1 ELECTRICAL ROOF PLAN - AREA D
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ONMECHANICAL UNIT WHERE APPLICABLE.
3. CONNECTION FOR ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
4. CONNECTION FOR CANOPY ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE TO GRADE AND 4' DOWN THE DRAINPIPE BELOW GRADE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
5. DEVICE IN THIS LOCATION UNDER BASE BID CONDITIONS
6. DEVICE IN THIS LOCATION UNDER ADD ALTERNATE CONDITIONS.

Keyed Plan



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project number: 21-422

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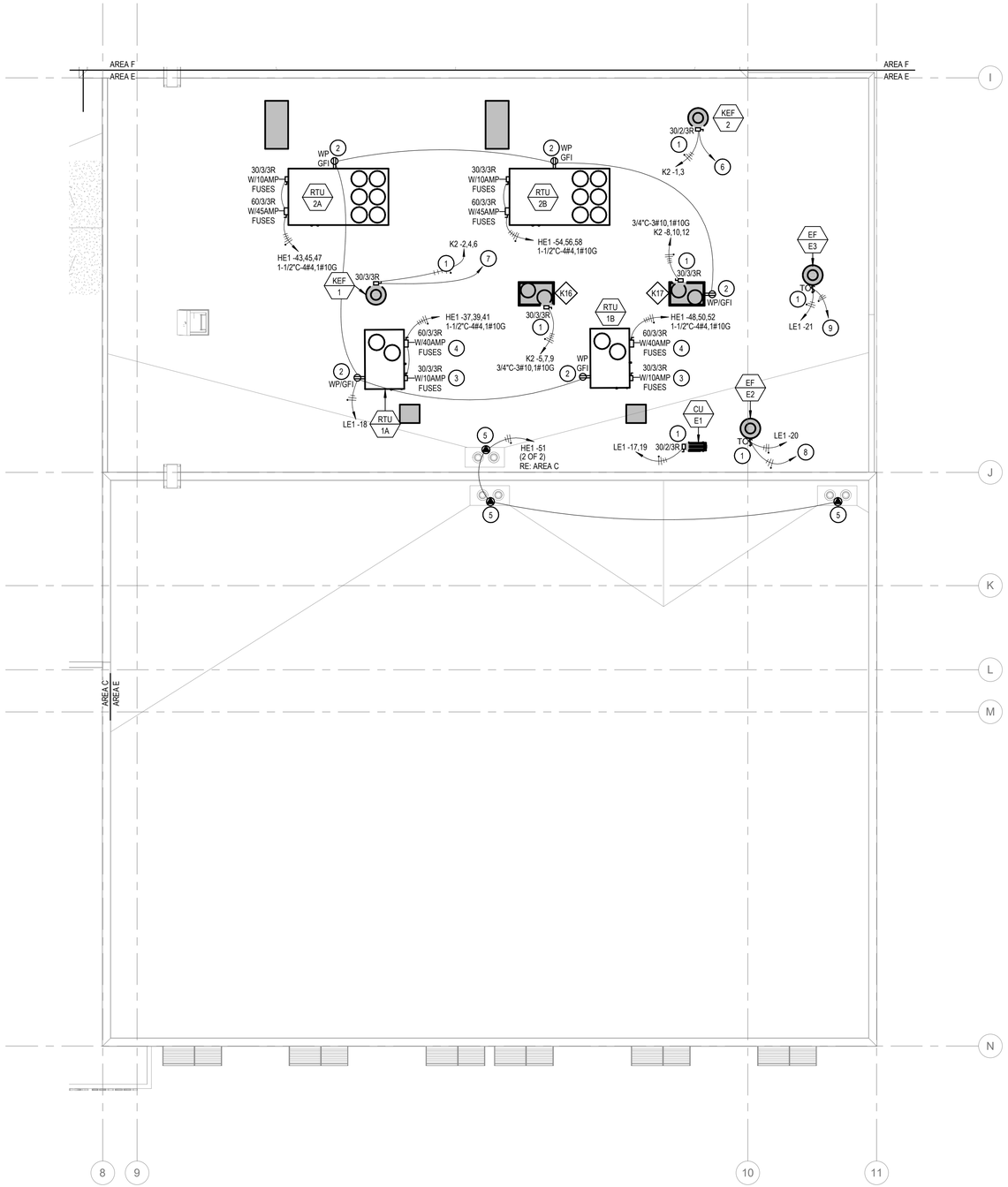
DRAWING NO.:

E8.4
ELECTRICAL ROOF PLAN – AREA D



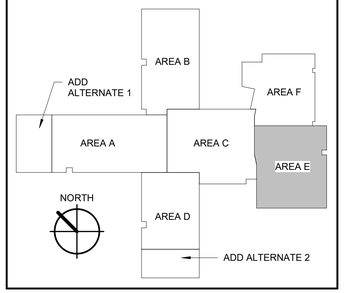
1 ELECTRICAL ROOF PLAN - AREA E
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ONMECHANICAL UNIT WHERE APPLICABLE.
3. FUSED DISCONNECT AS INDICATED FOR SEPARATE POWERED EXHAUST CONNECTION. COORDINATE LOCATION AND MOUNTING WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES. CONNECT TO THE LINE SIDE OF THE MAIN DISCONNECT. PROVIDE GUTTER, JUNCTION BOX(ES), WIRE TAPS AS REQUIRED, MAXIMUM LENGTH OF CONDUCTORS SHALL BE 10 FEET. LABEL THE DISCONNECT AS "POWERED EXHAUST DISCONNECT".
4. FUSED MAIN DISCONNECT AS INDICATED. FIELD COORDINATE FUSED DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
5. CONNECTION FOR ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
6. ROUTE TO DISHWASHER HOOD FAN PILOT SWITCH LOCATED IN KITCHEN. RE: ENLARGED KITCHEN PLAN.
7. INTERLOCK EXHAUST FAN WITH KITCHEN HOOD CONTROL PANEL 'HCP'. ROUTE CIRCUIT THROUGH 'HCP' AND PROVIDE ALL CONNECTIONS AND HARDWARE REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIREMENTS AND EXACT LOCATION. RE: KITCHEN HOOD CONTACTOR CABINET DETAIL.
8. INTERLOCK EXHAUST FAN WITH LOUVER L-E1 LOCATED IN ELECTRICAL E106. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
9. INTERLOCK EXHAUST FAN WITH LOUVER L-E2 LOCATED IN MECHANICAL E111. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

Keyed Plan



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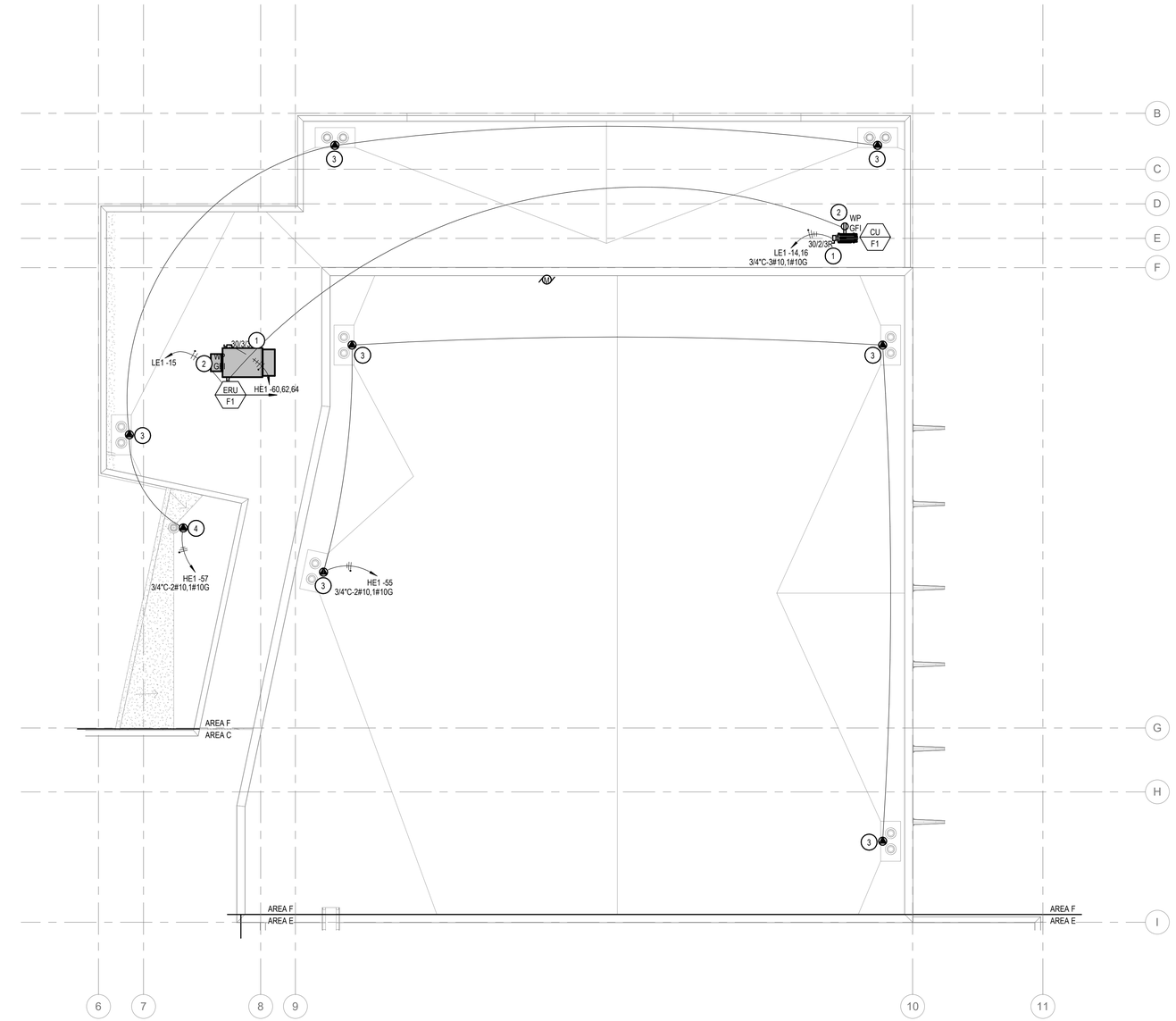
DRAWING NO.:

E8.5
ELECTRICAL ROOF PLAN - AREA E



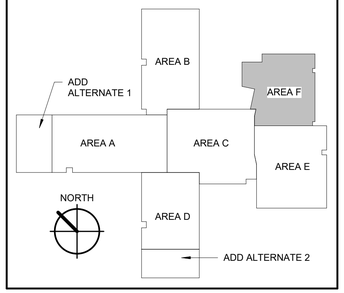
1 ELECTRICAL ROOF PLAN - AREA F
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
2. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ONMECHANICAL UNIT WHERE APPLICABLE.
3. CONNECTION FOR ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN THE DRAINPIPE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.
4. CONNECTION FOR CANOPY ROOF DRAIN HEAT TAPE. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE TO GRADE AND 4' DOWN THE DRAINPIPE BELOW GRADE. MAKE ALL CONNECTIONS. RE: ROOF DRAIN HEAT TAPE DETAIL.

Keyed Plan



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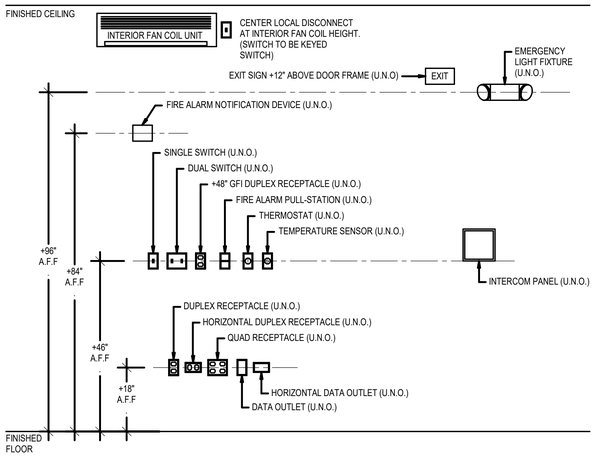
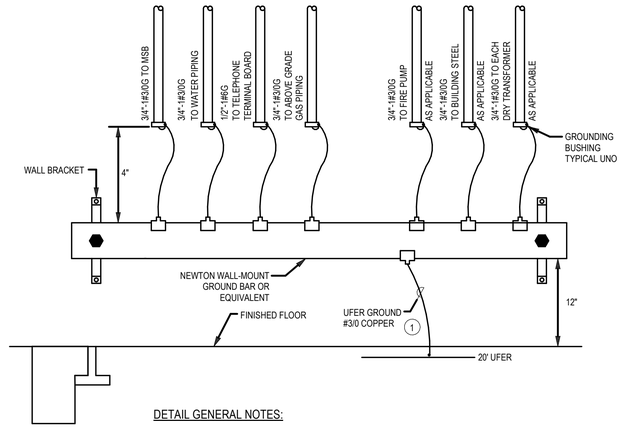
E8.6
ELECTRICAL ROOF PLAN – AREA F



DETAIL GENERAL NOTES:

1. PROVIDE FRAMING AS REQUIRED.

1 STANDARD MOUNTING HEIGHTS
NTS



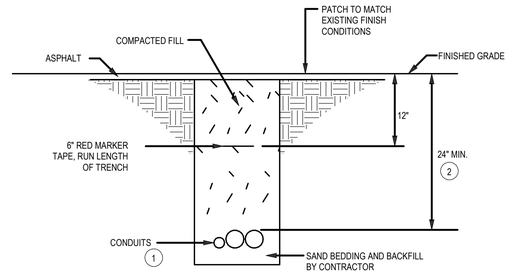
DETAIL GENERAL NOTES:

A. ALL CONDUCTORS SHALL BE IN EMT CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL HAVE A GROUNDING BUSHING AT EACH END.
B. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS.
C. PROVIDE BONDING OF GAS PIPING PER NEC 250.104(B)(1).

DETAIL NOTES:

1. UFER GROUND TO BE 20' OF #4 AWG COPPER OR 1/2" MINIMUM DIAMETER STEEL REINFORCING BAR PER 250.52.

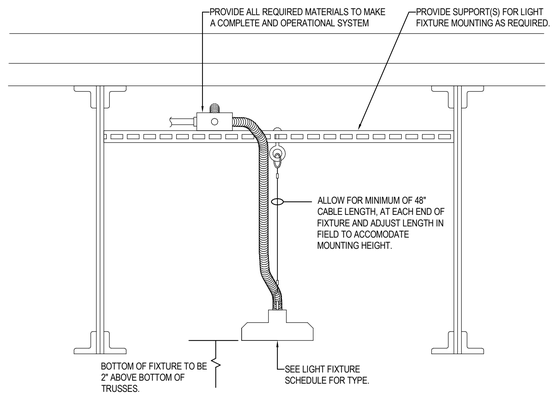
2 GROUNDING BAR DETAIL
NTS



DETAIL NOTES:

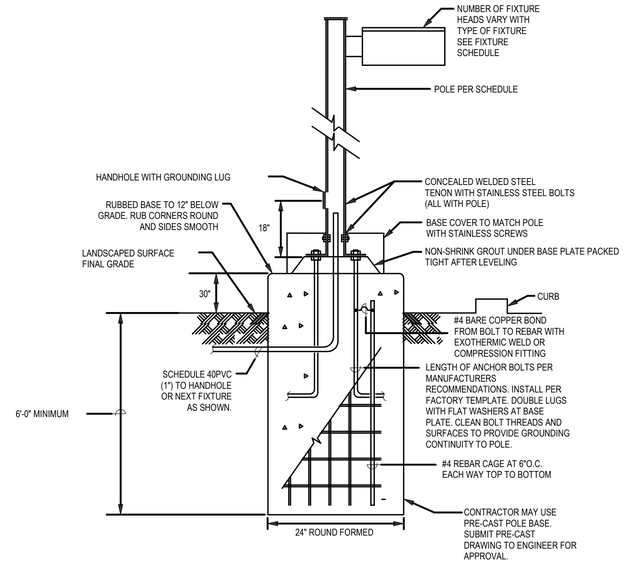
1. IF MULTIPLE CONDUITS SHARE TRENCH, PROVIDE SPACING BETWEEN CONDUITS. PROVIDE ZIP TIES, AND TIE ALL CONDUITS TOGETHER TO ENSURE STABILITY.
2. BURIAL DEPTH TO BE VERIFIED WITH UTILITIES AND AUTHORITY HAVING JURISDICTION:
   COMMUNICATIONS: 24" MINIMUM
   UNDERGROUND SECONDARY: 30" MINIMUM
   UNDERGROUND PRIMARY: 42" MINIMUM

3 SITE TRENCHING DETAIL
NTS



NOTES:
1. CONFIRM FIXTURE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
2. DETAIL IS TO PROVIDE GENERAL INSTALLATION REQUIREMENTS ONLY, ALL REQUIRED MATERIALS MAY NOT BE INDICATED. PROVIDE ALL MATERIALS REQUIRED FOR A FULLY OPERATIONAL AND CODE COMPLIANT INSTALLATION.

4 HIGH BAY LIGHTING FIXTURE MOUNTING DETAIL
NTS



DETAIL NOTES:

1. INCREASE THE SPECIFIED HEIGHT OF THE POLE BY 2'-0" TO ENSURE UNIFORM FIXTURE MAINTAIN HEIGHT WHERE THE 6" BASE IS USED.
2. PROTECTED AREA IMPLIES THE POLE IS INSTALLED AT LEAST 30" FROM PARKING OR DRIVE AREAS.

5 SITE LIGHT POLE BASE DETAIL
NTS

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2400 E. Riverwalk Drive
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208.336.3443

PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

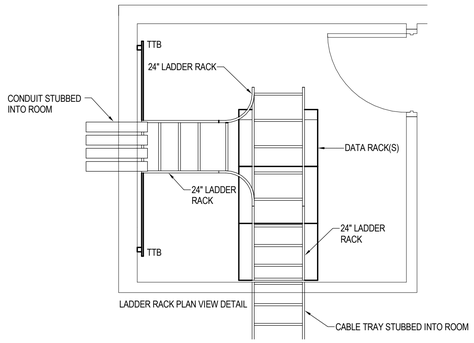
DATE: 02/11/2022
LKV PROJECT #: 2120

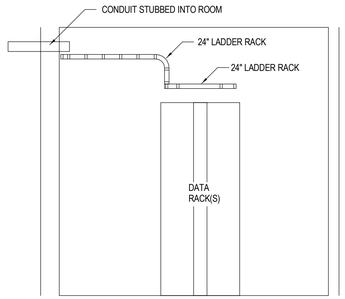
DRAWN BY: AN
CHECKED BY: KL

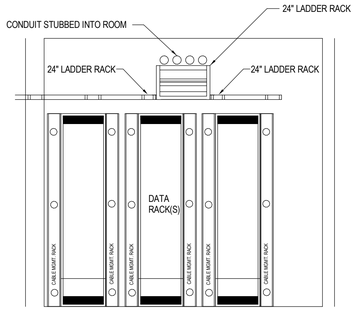
BID SET

DRAWING NO.:

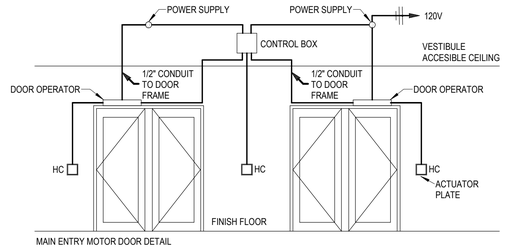
E9.0
ELECTRICAL DETAILS

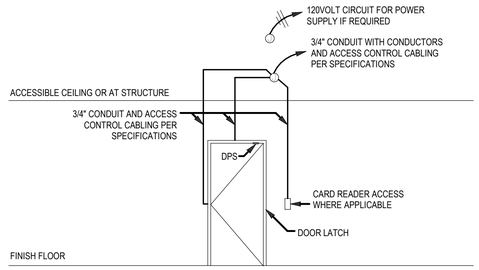




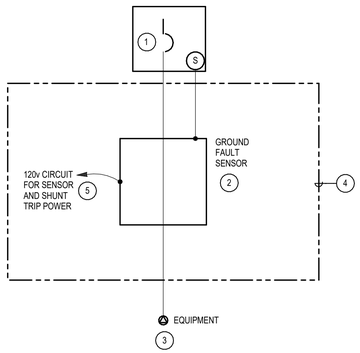


1 MDF - LADDER DETAIL
NTS





2 DOOR ACCESS CONTROL DETAIL
NTS



DETAIL GENERAL NOTES:

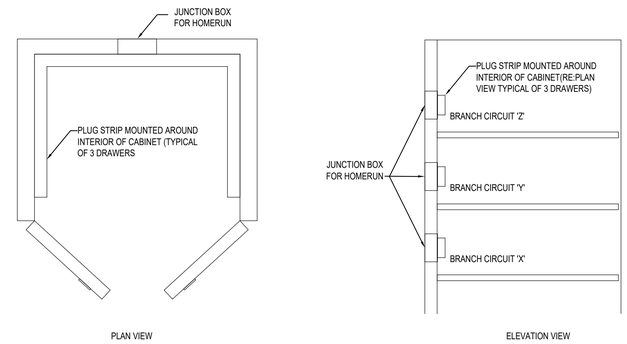
1. THERE SHALL BE ONE GROUND FAULT SENSOR, ONE SHUNT TRIP BREAKER AND ASSOCIATED WIRING FOR EACH DEVICE THAT IS TO HAVE GROUND FAULT PROTECTION BASED ON THIS DETAIL. EACH SENSOR AND SHUNT TRIP TO OPERATE ON AN INDIVIDUAL BASIS.

DETAIL KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

1. SHUNT TRIP BREAKER FOR TYPICAL EQUIPMENT.
2. GROUND FAULT SENSOR WITH 5 mA FIXED SETTING TO SHUNT TRIP ASSOCIATED BREAKER. UTILZE NK TECHNOLOGIES AG SERIES GROUND FAULT SENSOR OR APPROVED EQUAL.
3. ROUTE ALL CURRENT CARRYING CONDUCTORS THROUGH THE ASSOCIATED GROUND FAULT SENSOR.
4. ALL GROUND SENSOR RELAYS TO BE LOCATED IN A NEMA 1 ENCLOSURE, SIZED AS REQUIRED.
5. UTILIZE THE SAME CIRCUIT FOR ALL SENSORS AND SHUNT TRIP TRIGGERS, UNO.

3 GROUND FAULT RELAY DETAIL
NTS



4 CHARGING STATION DETAIL
12" = 1'-0"

LKV ARCHITECTS
2400 E. Riverwalk Drive
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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO AMY LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

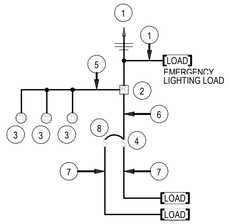
Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

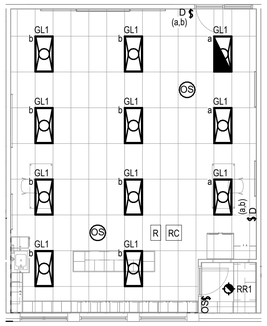
DRAWING NO.:
E9.1
ELECTRICAL DETAILS



DETAIL NOTES:

1. UNSWITCHED LINE VOLTAGE POWER FEED FROM LOCAL PANEL.
2. POWER/RELAY PACK RATED FOR UP TO 3 SENSORS AND 15A LINE VOLTAGE SWITCHING. PROVIDE QUANTITY AS REQUIRED FOR A COMPLETE INSTALLATION.
3. LOW VOLTAGE OCCUPANCY SENSOR, UP TO 3 PER POWER PACK. PROVIDE WITH ISOLATED NO/NC AUXILIARY CONTACTS FOR HVAC INTERLOCK. QUANTITY AND LOCATION AS INDICATED ON PLANS.
4. WALL MOUNTED LINE VOLTAGE SNAP SWITCH(ES). QUANTITY AS INDICATED ON PLANS.
5. LOW VOLTAGE POWER AND CONTROL CONDUCTORS AS REQUIRED FOR A COMPLETE INSTALLATION.
6. LINE VOLTAGE SWITCHED LEG FROM RELAY PACK TO LOCAL WALL SWITCHES.
7. LINE VOLTAGE SWITCHED LEG FROM SWITCHES TO LIGHTING LOAD.
8. SECOND SWITCH FOR DUAL LEVEL LIGHTING WHERE INDICATED ON PLANS.

1 OCCUPANCY SENSOR DETAIL
NTS



DETAIL SYMBOLS LIST:

S SWITCH PROVIDING ON/OFF AND RAISE/LOWER, CONTROL OF LIGHTING IN THE ASSOCIATED CONTROL ZONE. PROVIDE ONE SWITCH FOR EACH CONTROL ZONE INDICATED BY THE SUBSCRIPTS IN THE ASSOCIATED ROOM.

LIGHT FIXTURE

OS STANDARD RANGE 360 DEGREE, CEILING MOUNTED, WIRELESS, DUAL TECHNOLOGY, OCCUPANCY SENSOR.

R AUXILIARY RELAY FOR DDC INTERFACE

RC CONTROLLER HUB. A SINGLE CONTROL HUB MAY BE UTILIZED FOR MULTIPLE ROOMS AS LONG AS EACH ROOM CAN BE CONTROLLED INDEPENDENTLY.

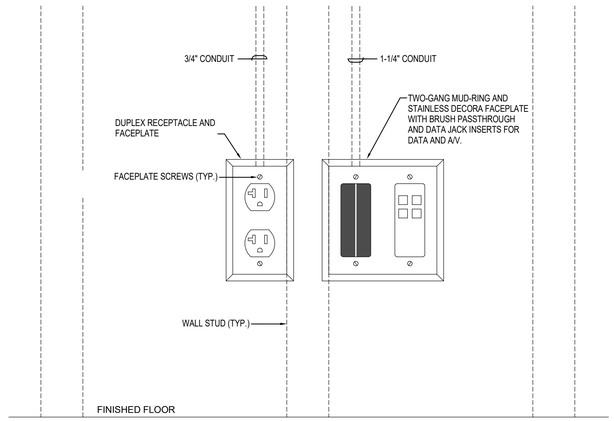
DETAIL GENERAL NOTES:

1. THE CLASSROOM LIGHTING CONTROLS SYSTEM SHALL BE A WIRED SYSTEM. THE SYSTEM SHALL ALLOW EACH ROOM TO BE CONTROLLED INDEPENDENTLY. PROVIDE ALL SYSTEM COMPONENTS TO ALLOW SYSTEM SETUP, CONNECTIONS, PROGRAMMING, INTERFACES, ECT WITHOUT DEPENDING ON THE BUILDING LOCAL AREA NETWORK (LAN). APPROVED MANUFACTURES: AQUITY, COOPER, AND LUTRON.
2. ALL SYSTEM PROGRAMMING TO BE PERFORMED BY FACTORY TRAINED PERSONNEL ON-SITE. UPON PROGRAMMING AND COMMISSIONING A DEMONSTRATION OF THE SYSTEM OPERATION SHALL BE PERFORMED ON SITE IN THE PRESENCE OF THE OWNER AND ENGINEER. THE DEMONSTRATION SHALL BE SCHEDULED A MINIMUM OF 2 WEEKS BEFORE THE DATE OF THE DEMONSTRATION. IN THE EVENT THE SYSTEM DEMONSTRATION DOES NOT FUNCTION PER THE BID DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOR MAKING ALL REQUIRED SYSTEM MODIFICATIONS, ALL REQUIRED PROGRAMMING MODIFICATIONS, ADDITIONAL COMMISSIONING AND DEMONSTRATIONS SHALL BE PERFORMED BY FACTORY TRAINED PERSONNEL UP UNTIL THE TIME THAT THE SYSTEM HAS BEEN ACCEPTED BY THE OWNER.
3. THE CONTRACTOR SHALL INSTALL ALL OF THE CONTROLLERS, INTERFACE MODULES, ETC ABOVE THE CEILING IN A CENTRAL LOCATION FOR AREA OF THE BUILDING. THE LOCATION SHALL BE MARKED ON THE FINAL AS-BUILT DRAWINGS FOR THE OWNER.
4. ALL LIGHT FIXTURES IN THE ROOM SHALL HAVE EXTERNAL, DUAL TECHNOLOGY, OCCUPANCY SENSORS UNLESS NOTED OTHERWISE. DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM SHALL ACTIVATE ALL LIGHTING IN THE ROOM. LIGHTING SHALL TURN ON AUTOMATICALLY TO 50% LUMEN OUTPUT UPON DETECTION OF OCCUPANCY.

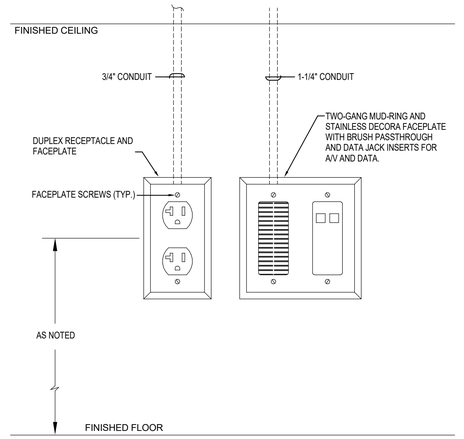
FOR EACH ROOM:

1. THE SWITCH SHALL CONTROL ALL LIGHTING IN THE ROOM. WHERE MULTIPLE CONTROL ZONES ARE INDICATED IN A ROOM PROVIDE A SEPARATE SWITCH PROVIDING ON/OFF AND RAISE/LOWER CONTROL FOR EACH ZONE.
2. PROVIDE QUANTITY OF LIGHTING CONTROL STATIONS AS INDICATED ON PLANS.
3. PROVIDE UN-SWITCHED CONDUCTORS FOR EMERGENCY FIXTURES AT LOCATIONS INDICATED ON PLANS.
4. WHERE NOT INTEGRAL WITH THE LIGHT FIXTURES, MOUNT OCCUPANCY SENSOR(S) IN OPTIMAL LOCATIONS PER THE MANUFACTURES INFORMATION TO PROVIDE PROPER OPERATION OF THE SYSTEM AND DETECT MOTION WITHIN 2FT OF ENTERING THE ROOM.
5. PROVIDE A DRY CONTACT CLOSURE/RELAY AS REQUIRED TO ALLOW THE BUILDING DDC SYSTEM TO MONITOR THE OCCUPIED VS NON-OCCUPIED CONDITIONS OF THE ROOM FOR HVAC SYSTEM SET BACK.
6. THE SYSTEM SHALL BE PROGRAMMED TO TURN ON FIXTURES TO 50% AUTOMATICALLY.

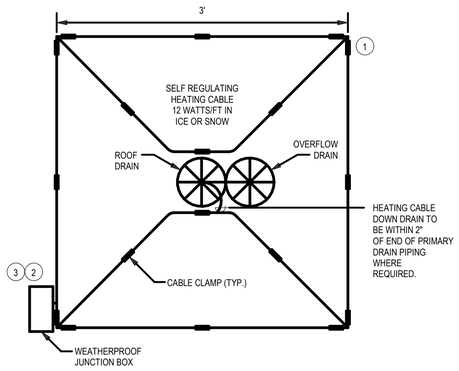
2 CLASROOM LIGHTING CONTROL DETAIL
NTS



3 CLASSROOM TEACHER STATION DETAIL
NTS



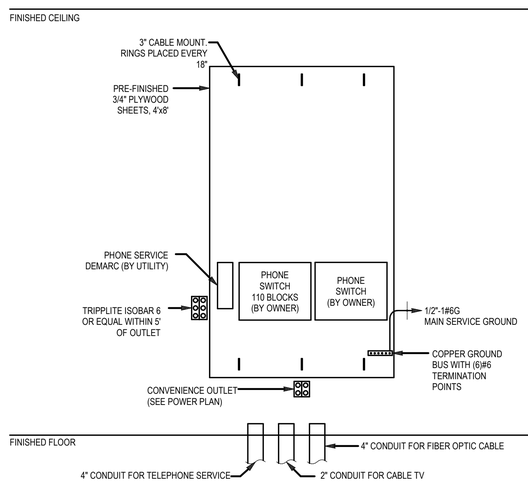
4 CLASSROOM TV DETAIL
NTS



DETAIL NOTES:

1. DESIGN BASES ON RAYCHEM ICESTOP HEATING CABLES. PROVIDE ALL SYSTEM COMPONENTS NECESSARY FOR A COMPLETE, OPERABLE SYSTEM INCLUDING, BUT NOT LIMITED TO CABLES, CLAMPS, END SEALS AND POWER CONNECTIONS. COORDINATE WITH CIRCUIT VOLTAGE. ENGINEER APPROVED EQUALS ALLOWED.
2. SERVING CIRCUIT BREAKER(S) FOR HEAT TRACE LOADS SHALL BE 30mA GFCI.
3. PROVIDE AND INSTALL ONE PENTAIR DIGITRACE #AMC-1A OR EQUAL THERMOSTAT CONTROL FOR EACH CIRCUIT.

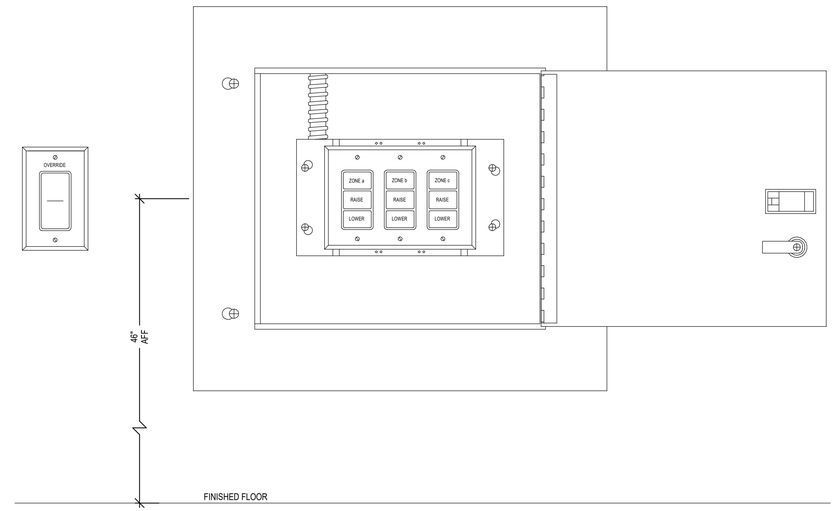
5 ROOF DRAIN HEAT TAPE DETAIL
NTS



DETAIL NOTES:

1.

6 TELEPHONE TERMINAL BOARD DETAIL
NTS



7 LIGHT SWITCH ENCLOSURE DETAIL
NTS

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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

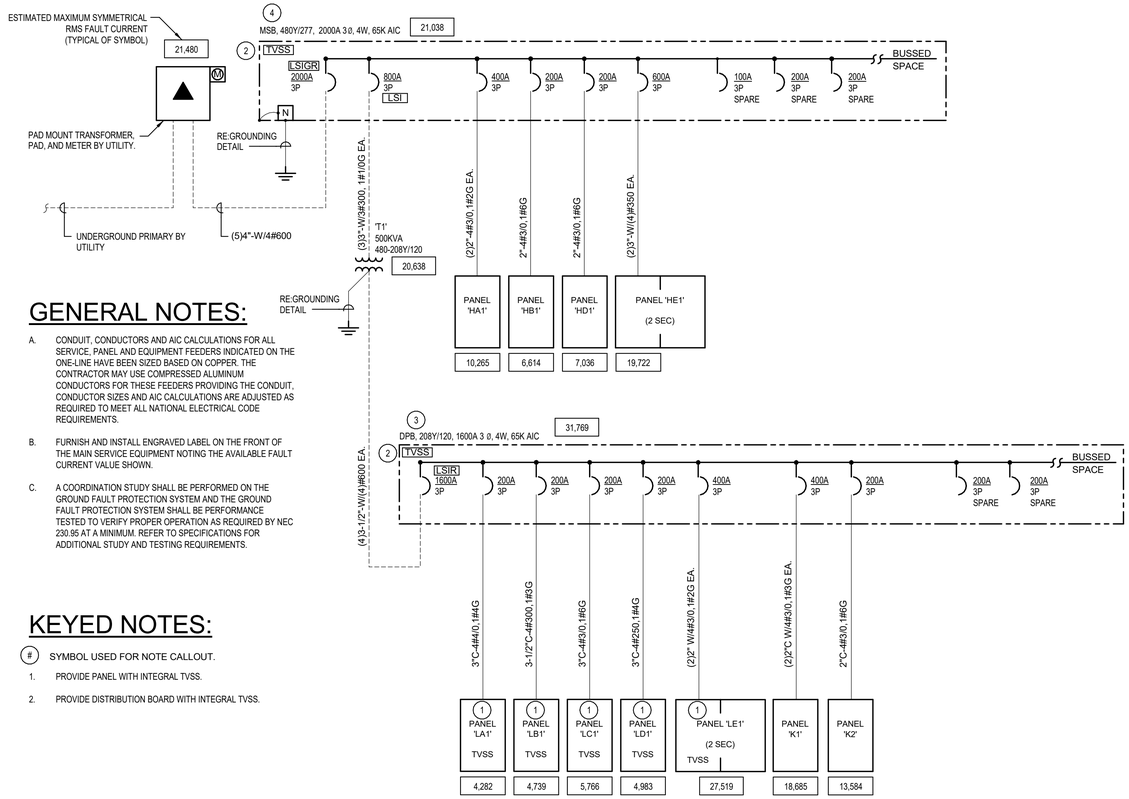
DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E9.2
ELECTRICAL DETAILS



1 ONE-LINE DIAGRAM
NTS

GENERAL NOTES:

A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

C. A COORDINATION STUDY SHALL BE PERFORMED ON THE GROUND FAULT PROTECTION SYSTEM AND THE GROUND FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED TO VERIFY PROPER OPERATION AS REQUIRED BY NEC 230.95 AT A MINIMUM. REFER TO SPECIFICATIONS FOR ADDITIONAL STUDY AND TESTING REQUIREMENTS.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE PANEL WITH INTEGRAL TVSS.
2. PROVIDE DISTRIBUTION BOARD WITH INTEGRAL TVSS.

Switchboard: DPB

Location: JAN. B114 **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: T1 **Phases:** 3 **Mains Type:** MBR
Mounting: Surface **Wires:** 4 **Mains Rating:** 1600 A
Enclosure: Type 1 **MCB Rating:** 1600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL 'LA1'	3	200 A	200 A	45029 VA	
2	PANEL 'LB1'	3	200 A	200 A	40306 VA	
3	PANEL 'LC1'	3	200 A	200 A	53354 VA	
4	PANEL 'LD1'	3	200 A	200 A	53667 VA	
5	PANEL 'LE1' 2-SECTION	3	400 A	400 A	49765 VA	
6	PANEL 'K1'	3	400 A	400 A	121170 VA	
7	PANEL 'K2'	3	200 A	200 A	30805 VA	
8	Spare	3	200 A	200 A	0 VA	
9	Spare	3	200 A	200 A	0 VA	
10						
				Total Conn. Load:	386316 VA	
				Total Amps:	1072 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	32365 VA	100.00%	32365 VA		
Lighting	360 VA	100.00%	360 VA	**Total Conn. Load:**	386316 VA
Motor	7381 VA	100.00%	7381 VA	**Total Est. Demand:**	320086 VA
Other	1346 VA	100.00%	1346 VA	**Total Conn. Current:**	1072 A
Power	202104 VA	100.00%	202104 VA	**Total Est. Demand Current:**	888 A
Receptacle	142460 VA	53.51%	76230 VA		
Water Heater	300 VA	100.00%	300 VA		

Notes:

Switchboard: MSB

Location: P3 **Volts:** 480/277 Wye **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:** MBR
Mounting: Surface **Wires:** 4 **Mains Rating:** 2000 A
Enclosure: Type 1 **MCB Rating:** 2000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	TRANSFORMER 'T1'	3	800 A	800 A	394096 VA	
2	PANEL 'HA1'	3	400 A	400 A	178481 VA	
3	PANEL 'HB1'	3	200 A	200 A	139062 VA	
4	PANEL 'HD1'	3	200 A	200 A	124554 VA	
5	PANEL 'HE1'	3	600 A	600 A	379249 VA	
6	Spare	3	100 A	100 A	0 VA	
7	Spare	3	200 A	200 A	0 VA	
8	Spare	3	200 A	200 A	0 VA	
9						
10						
				Total Conn. Load:	1207513 VA	
				Total Amps:	1452 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	625678 VA	100.00%	625678 VA		
Lighting	32339 VA	100.00%	32339 VA	**Total Conn. Load:**	1207513 VA
Motor	42283 VA	100.00%	42283 VA	**Total Est. Demand:**	1141299 VA
Other	1876 VA	100.00%	1876 VA	**Total Conn. Current:**	1452 A
Power	239804 VA	100.00%	239804 VA	**Total Est. Demand Current:**	1373 A
Receptacle	142460 VA	53.51%	76230 VA		
Heating	5000 VA	100.00%	5000 VA		
Water Heater	120300 VA	100.00%	120300 VA		

Notes:

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DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E10.0
ELECTRICAL ONE-LINE AND SCHEDULES

LIGHTING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MOUNTING	WATTAGE	LAMP	MANUFACTURER	MODEL	OR EQUAL BY	NOTES
BL1	CHAIN HUNG 4FT LED STRIP		34.8	LED, 5000 LUMENS, 4000K	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH-THCLXWH (PROVIDE WITH 'PSD1050-SPD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	
BL1A	CHAIN HUNG 4FT LED STRIP, MATTE BLACK 1% DIMMING	CHAIN HUNG +11'-0"	34.8	LED, 5000 LUMENS, 4000K	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-EZ1-40K-80CRI-MB-THCLXMB (PROVIDE WITH 'PSD1050-SPD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
BL2	SURFACE MOUNTED 4FT LED STRIP	SURACE MOUNTED	34.8	LED,5000 LUMENS, 4000K	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH-HC36 (PROVIDE WITH 'PSD1050-SPD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
EX1	SINGLE FACED, THERMOPLASTIC EXIT SIGN, GREEN LETTERING WITH CADMIUM BATTERY AND SELF DIAGNOSTIC	CEILING MOUNTED	0.7	LED	LITHONIA	LQM-S-W-3-G-MVOLT-ELN-SD	COMPASS/MULE/H. E. WILLIAMS	1
EX2	DUAL FACED, THERMOPLASTIC EXIT SIGN, GREEN LETTERING WITH CADMIUM BATTERY AND SELF DIAGNOSTIC	CEILING MOUNTED	0.7	LED	LITHONIA	LQM-S-W-3-G-MVOLT-ELN-SD	COMPASS/MULE/H. E. WILLIAMS	1
EX3	WALL MOUNTED SINGLE FACED, THERMOPLASTIC EXIT SIGN, GREEN LETTERING WITH CADMIUM BATTERY, SELF DIAGNOSTIC AND WIRE GUARD	AS INDICATED ON PLANS	0.7	LED	LITHONIA	LQM-S-W-3-G-MVOLT-ELN-SD-ELA WG1	COMPASS/MULE/H. E. WILLIAMS	1
F1	EXTERIOR SIGNAGE, POLE MOUNTED	AS INDICATED ON PLANS	42	LED, 4,693 LUMENS, 4000K	LITHONIA	DSXF1 LED-P2-40K-HMF-MVOLT-IS-DMG-FV-DDBXD-FSPB-DDBXD U		1
FL1	RECESSED 1X4 FLANGED LED WITH ACRYLIC LENS	CEILING RECESSED	35	LED, 3300 LUMENS, 4000K	LITHONIA	GTL-4-F-33L-GZ10-LP840-DGA14 (PROVIDE WITH 'EL14L' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
GL1	RECESSED GRID 2X4 WITH BATTERY PACK AND SELF DIAGNOSTIC	GRID RECESSED	31.7	LED, 3000 LUMENS, 4000K	LITHONIA	2BLT4-30L-ADP-GZ1-LP840 (PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
GL1A	TUNABLE WHITE RECESSED GRID 2X4 WITH BATTERY PACK AND SELF DIAGNOSTIC	GRID RECESSED	31.7	LED, 3000 LUMENS, 4000K	LITHONIA	2BLT4-30L-ADP-GZ1-LP840 (PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
GL2	RECESSED GRID 2X2 WITH BATTERY PACK AND SELF DIAGNOSTICS	GRID RECESSED	31.7	LED, 4000 LUMENS, 4000K	LITHONIA	2BLT2-40L-ADP-GZ1-LP840 (PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
GL3	RECESSED GRID 2X4 WITH ACRYLIC LENS WITH BATTERY PACK AND SELF DIAGNOSTICS	GRID RECESSED	32.36	LED, 4000 LUMENS, 4000K	LITHONIA	2GTL4-40L-GZ1-LP840 (PROVIDE WITH 'EL10WLCP' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
HB1	HIGH BAY, CABLE HUNG, LED, WIRE GUARD WITH BATTERY PACK AND SELF DIAGNOSTICS	CABLE HUNG	105	LED, 15000 LUMENS, 4000K	LITHONIA	IBE-L24-15000LM-SD080-MD-MVOLT-GZ10-40K-80CRI-DWH-IBAC120M20-WGIBE (PROVIDE WITH 'E15WCP' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
P1	4FT PENDANT RING WITH EMERGENCY BATTERY	CEILING PENDANT	181	LED, 9350 LUMENS, 4000K	PRUDENTIAL	O-40-LED4-HO-FWA-**-D9-SC-UNV-CA-48*-X1-DM01-EMH	IMPACT / LUMOS	1,2
PL1	EXTERIOR POLE LIGHT WITH SINGLE HEAD R3 TYPE DISTRIBUTION AND HOUSESIDE SHIELD	POLE MOUNTED +25'-0" AFF	69	LED, 8360 LUMENS, 4000K	LITHONIA	KAD LED-40C-700-40K-R4-MVOLT-SPD-04-DDBXD (POLE: SSS-25-4C-DM19-DDBXD)	HUBBELL / COOPER	1
PL2	EXTERIOR POLE LIGHT WITH DUAL HEAD R3 TYPE DISTRIBUTION.	POLE MOUNTED +25'-0" AFF	138	LED, 16720 LUMENS, 4000K	LITHONIA	KAD LED-40C-700-40K-R4-MVOLT-SPD-04-DDBXD (POLE: SSS-25-DM28-DDBXD)	HUBBELL / COOPER	1
RR1	ROUND RECESSED, 6" APERTURE, LED	CEILING RECESSED	10.4	LED, 1000 LUMENS, 4000K	LITHONIA	LDN6-40/10-L06AR-LSS-MVOLT-GZ1 (PROVIDE WITH 'ELSD' OPTION FOR EMERGENCY FIXTURES)	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
SF1	EXTERIOR ROUND SURFACE MOUNT LED	SURFACE	24	LED, 1023 LUMENS, 4000K	LUMINAIRE	APX13-MIN10-15W-40K-MVOLT-FCL-BRZ	KENALL, HUBBELL, COOPER	1
SF1E	EXTERIOR ROUND SURFACE MOUNT LED WITH EMERGENCY BATTERY PACK	SURFACE	24	LED, 1023 LUMENS, 4000K	LUMINAIRE	APX13-MIN10-15W-40K-MVOLT-FCL-BRZ-EMB310	KENALL, HUBBELL, COOPER	1
TL1	8' TRACK LIGHTING, 2-CIRCUIT, 2-NEAUTRALS, (6) DIMMABLE LED FIXTURES, (3) COLOR FILTERS, 24-DEGREE FOCAL BEAM, BLACK FINISH	CEILING MOUNTED	15W PER HEAD	LED, 4000K	JUNO	TRACK: TEK412-BL FIXTURE HEAD: T254L-TEK-G2-40K-80CRI-PDIM-NFL-BL		1,3
WB1	2FT WALL BRACKET, LED	WALL MOUNTED ABOVE VANITY	12.2	LED, 1311 LUMENS, 4000K	LITHONIA	WL2-18L-EZ1-LP840	LIGHTOLIER/METAL UX/H.E. WILLIAMS	1
WP1	EXTERIOR WALL PACK WITH EMERGENCY BATTERY PACK	WALL MOUNTED +10'-6" UNO	10	LED, 1227 LUMENS, 4000K	LITHONIA	WDGE1 LED-P1-40K-80CRI-VF-MVOLT-DDBXD (PROVIDE WITH 'E4WH' OPTION FOR EMERGENCY FIXTURES)	HUBBELL, COOPER	1

LIGHTING FIXTURE SCHEDULE NOTES

1. SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.
2. **COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING.
3. PROVIDE WITH PHASED DIMMING PACK CAPABLE OF DIMMING 3-WIRE LINE VOLTAGE BALLASTS DOWN TO 1% WITH OUT FLICKER SUCH AS nLight 'nSP5 PCD' OR EQUAL. REFER TO TRACK HEAD COMPATIBLE DIMMER LIST TO PROVIDE RECOMMENDED DIMMER WITH OUT FLICKER DOWN TO 1%

LIGHTING CONTROL ZONE SCHEDULE - AREA A

SCHEDULE CIRCUIT NOTES	LOAD NAME	PANEL	CIRCUIT NUMBER
HALLWAY AREA A	LTS-HALL AREA A	HA1	51
EXTERIOR BUILDING	LTS-EXTERIOR BUILDING, AREA A	HA1	49

LIGHTING CONTROL ZONE SCHEDULE NOTES

1. PROVIDE UNSWITCHED LEG TO EGRESS FIXTURES.
2. PROVIDE TIMECLOCK PROGRAMMING AS REQUIRED. COORDINATE TIME SCHEDULE WITH OWNER.

LIGHTING CONTROL ZONE SCHEDULE - AREA B

SCHEDULE CIRCUIT NOTES	LOAD NAME	PANEL	CIRCUIT NUMBER
EXTERIOR BUILDING	LTS-EXTERIOR BUILDING, AREA B	HB1	46
HALLWAY AREA B	LTS-HALL AREA B	HB1	48

LIGHTING CONTROL ZONE SCHEDULE NOTES

1. PROVIDE UNSWITCHED LEG TO EGRESS FIXTURES.
2. PROVIDE TIMECLOCK PROGRAMMING AS REQUIRED. COORDINATE TIME SCHEDULE WITH OWNER.

LIGHTING CONTROL ZONE SCHEDULE - AREA D

SCHEDULE CIRCUIT NOTES	LOAD NAME	PANEL	CIRCUIT NUMBER
EXTERIOR PARKING LOT	LTS-EXTERIOR PARKING N.W.	HD1	39
HALLWAY AREA d	LTS-EXTERIOR BUILDING, AREA D	HD1	41

LIGHTING CONTROL ZONE SCHEDULE NOTES

1. PROVIDE UNSWITCHED LEG TO EGRESS FIXTURES.
2. PROVIDE TIMECLOCK PROGRAMMING AS REQUIRED. COORDINATE TIME SCHEDULE WITH OWNER.

LIGHTING CONTROL ZONE SCHEDULE - AREA C, E, F

SCHEDULE CIRCUIT NOTES	LOAD NAME	PANEL	CIRCUIT NUMBER
HALLWAY AREA C	LTS-HALL AREA C	HE1	65
EXTERIOR BUILDING	LTS-EXTERIOR BUILDING, AREA C/E/F	HE1	67
GYMNASIUM	LTS-GYM E100	HE1	75
GYMNASIUM	LTS-GYM E100	HE1	77
GYMNASIUM	LTS-GYM E100	HE1	79
CAFETORIUM	LTS-CAFETORIUM F100	HE1	83
CAFETORIUM	LTS-CAFETORIUM F100	HE1	85
CAFETORIUM	LTS-CAFETORIUM F100	HE1	87
CAFETORIUM	LTS-CAFETORIUM F100	HE1	89

LIGHTING CONTROL ZONE SCHEDULE NOTES

1. PROVIDE UNSWITCHED LEG TO EGRESS FIXTURES.
2. PROVIDE TIMECLOCK PROGRAMMING AS REQUIRED. COORDINATE TIME SCHEDULE WITH OWNER.

IECC 2018 DAYLIGHT-RESPONSIVE CONTROL CALCULATION

IS DAYLIGHT-RESPONSIVE CONTROL REQUIRED ON THIS PROJECT?	=	NO DRC REQUIRED
TCLP	<	**LPA_{ADJ}**
9,139	<	46,439

IECC C405.3.1 (EQUATION 4-10)
TOTAL CONNECTED INTERIOR LIGHTING POWER (W)
TCLP = LVL+BLL+LED+TRK+OTHER — TCLP = 9,139

IECC C405.2.3 Exception 4 (EQUATION 4-9)
ADJUSTED BUILDING INTERIOR LIGHTING POWER ALLOWANCE (W)
LPA_{ADJ} =[LPA NORM * (1.0-(0.4*(UDZFA/TBFA)))] — LPA_{ADJ} = 46,439

REDUCED LIGHTING POWER ALLOWANCE (W)
LPA_{NORM} = 90% of (LPD*SqFt*.90) — LPA_{NORM} = 48,573
INTERIOR LIGHTING POWER ALLOWANCE **(IECC TABLE C405.3.2(1)) LPD** — A = 0.73
BUILDING AREA — B = 73,932
REDUCED LIGHTING POWER **(IECC C406.3)** — R = 0.90

UDZFA = UNCONTROLLED DAYLIGHT ZONE FLOOR AREA
THE SUM OF ALL SIDE LIT AND TOPLIT ZONES CALCULATED BY IECC C405.2.3.2 AND IECC C405.2.3.3 — UDZFA = 8,121

TBFA = TOTAL BUILDING FLOOR AREA — TBFA = 73,932

UNCONTROLLED DAYLIGHTING ZONE FLOOR AREA	ROOM SQFT OF DAY LIGHT ZONE
AREA A	1384
AREA B	1686
AREA C	719
AREA D	880
AREA E	1240
AREA F	724
AREA A - ADD ALTERNATE	725
AREA D - ADD ALTERNATE 2	763

Branch Panel: K1

Location: KITCHEN E107 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 22,000
Supply From: DPB — **Phases:** 3 — **Mains Type:** MLO
Mounting: FLUSH — **Wires:** 4 — **Mains Rating:** 400 A
Enclosure: Type 1 — **MCB Rating:**

Notes:
60CKT SINGLE SECTION PANELBOARD
1) GFEP FOR EQUIPMENT PROTECTION (30mA); 2) SHUNT TRIP BREAKER FOR GROUND FAULT SHUTDOWN; 3) BREAKER WITH LOCKOUT HASP

CKT	Circuit Description	Ckt Notes	Trip	Poles	A	B	C	Poles	Trip	Ckt Notes	Circuit Description	CKT
1	K16a - COOLER FAN COIL		20 A	1	500 VA	900 VA		1	20 A	1	WALK-IN HEAT TAPE	2
3	K17a - FREEZER FAN COIL		20 A	2			250 VA 500 VA	1	20 A		MOTORIZED ROLLUP DOOR	4
5	--		--	--			250 VA 500 VA	1	20 A		MOTORIZED ROLLUP DOOR	6
7	HOOD LIGHTS/CONTROL PANEL		20 A	1	1400 VA	500 VA		1	20 A		HOOD CONCACTOR	8
9	GROUND FAULT RELAY CABINET		20 A	1			500 VA					10
11	K3 - DISPOSER		20 A	2			915 VA 5000 VA	3	60 A		K1b - BOOSTER HEATER	12
13	--		--	--	915 VA	5000 VA		--	--		--	14
15	K1a - DISWASHER BOOSTER		30 A	3			3072 VA 5000 VA	--	--		--	16
17	--		--	--			3072 VA 3228 VA	3	30 A		K1 - DISHWASHER	18
19	--		--	--	3072 VA	3228 VA		--	--		--	20
21	REC-OFFICE E307a		20 A	1			900 VA 3228 VA	--	--		--	22
23	REC-KITCHEN E107/108/109		20 A	1			1080 VA 1200 VA	1	20 A		K8 - ICE MACHINE	24
25	REC-KITCHEN E107		20 A	1	720 VA	720 VA		1	20 A		REC-KITCHEN E107/E107b/E110	26
27	K26 - SLICER		20 A	1			1200 VA 720 VA	1	20 A		REC-K6 - FRIDGE	28
29	K5 - WARMING CABINET	2	20 A	1			2000 VA 4167 VA	3	50 A		K9 - DBL CONVECTION OVEN	30
31	SHUNT TRIP (K5)	2	--	1	--	4167 VA		--	--		--	32
33	K5 - WARMING CABINET	2	20 A	1			2000 VA 4167 VA	--	--		--	34
35	SHUNT TRIP (K5)	2	--	1			-- 4167 VA	3	50 A		K9 - DBL CONVECTION OVEN	36
37	K19 - STEAM KETTLE	2	35 A	3	3267 VA	4167 VA		--	--		--	38
39	--	2	--	--			3267 VA 4167 VA	--	--		--	40
41	--	2	--	--			3267 VA 4167 VA	3	50 A		K9 - DBL CONVECTION OVEN	42
43	SHUNT TRIP (K19)	2	--	1	--	4167 VA		--	--		--	44
45	K19 - STEAM KETTLE	2	35 A	3			3267 VA 4167 VA	--	--		--	46
47	--	2	--	--			3267 VA 4167 VA	3	50 A		K9 - DBL CONVECTION OVEN	48
49	--	2	--	--	3267 VA	4167 VA		--	--		--	50
51	SHUNT TRIP (K19)	2	--	1			-- 4167 VA	--	--		--	52
53	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	54
55	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	56
57	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	58
59	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	60
			Total Load:		40155 VA		40570 VA				40445 VA	
			Total Amps:		335 A		338 A				337 A	

Legend:

Branch Panel: K2

Location: KITCHEN E107 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 22,000
Supply From: DPB — **Phases:** 3 — **Mains Type:** MLO
Mounting: FLUSH — **Wires:** 4 — **Mains Rating:** 200 A
Enclosure: Type 1 — **MCB Rating:**

Notes:
60CKT SINGLE SECTION PANELBOARD
1) GFEP FOR EQUIPMENT PROTECTION (30mA); 2) SHUNT TRIP BREAKER FOR GROUND FAULT SHUTDOWN; 3) BREAKER WITH LOCKOUT HASP

CKT	Circuit Description	Ckt Notes	Trip	Poles	A	B	C	Poles	Trip	Ckt Notes	Circuit Description	CKT
1	KEF-2 (H-3), ROOF		20 A	2	250 VA	1272 VA		3	20 A		KEF-1 (H-1), ROOF	2
3	--		--	--		250 VA	1272 VA	--	--		--	4
5	K16 - WALK-IN COOLER...		20 A	3			2880 VA 1272 VA	--	--		--	6
7	--		--	--	2880 VA	2880 VA		3	20 A		K17 - WALK-IN FREEZER...	8
9	--		--	--		2880 VA	2880 VA	--	--		--	10
11	REC-MICROWAVE		20 A	1			1200 VA 2880 VA	--	--		--	12
13	K7 - STEAM TABLE	2	20 A	2	1238 VA	967 VA		2	20 A		K10 - 40QT MIXER	14
15	--	2	--	--		1238 VA	967 VA	--	--		--	16
17	SHUNT TRIP (K7)	2	--	1			-- 1200 VA	3	20 A		K11 - 60QT MIXER	18
19	Spare		20 A	1	0 VA	1200 VA		--	--		--	20
21	Spare		20 A	1		0 VA	1200 VA	--	--		--	22
23	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	26
27	Spare		20 A	1		0 VA	0 VA	1	20 A		Spare	28
29	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	30
31	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	32
33	Spare		20 A	1		0 VA	0 VA	1	20 A		Spare	34
35	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	36
37	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	38
39	Spare		20 A	1		0 VA	0 VA	1	20 A		Spare	40
41	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	42
43	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	44
45	Spare		20 A	1		0 VA	0 VA	1	20 A		Spare	46
47	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	48
49	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	50
51	Spare		20 A	1		0 VA	0 VA	1	20 A		Spare	52
53	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	54
55	Spare		20 A	1	0 VA	0 VA		1	20 A		Spare	56
57	Spare		20 A	1		0 VA	0 VA	1	20 A		Spare	58
59	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	60
			Total Load:		10687 VA		10687 VA				9432 VA	
			Total Amps:		91 A		91 A				79 A	

Legend:

LKV ARCHITECTS
2400 E. Riverwalk Drive
Boise, Idaho 83706
www.lkvarchitects.com
208.336.3443

PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E10.1
ELECTRICAL SCHEDULES

Branch Panel: LA1

Location: JAN. A107
Supply From: DPB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
72CKT SINGLE SECTION PANELBOARD
1) GFCI FOR PERSONNEL PROTECTION (5mA); 2) RED HANDLE, LOCKABLE BREAKER

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	CHARGING STATION, CLASS A102		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A102	2
3	CHARGING STATION, CLASS A102		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A102	4
5	REC-CLASSROOM A102		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A102, TV/AMP	6
7	CHARGING STATION, CLASS A103		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A103	8
9	CHARGING STATION, CLASS A103		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A103	10
11	REC-CLASSROOM A103		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A103, TV/AMP	12
13	CHARGING STATION, CLASS A104		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A104	14
15	CHARGING STATION, CLASS A104		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A104	16
17	REC-CLASSROOM A104		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A104, TV/AMP	18
19	CHARGING STATION, CLASS A105		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A105	20
21	CHARGING STATION, CLASS A105		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A105	22
23	REC-CLASSROOM A105		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A105, TV/AMP	24
25	CHARGING STATION, CLASS A106		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A106	26
27	CHARGING STATION, CLASS A106		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A106	28
29	REC-CLASSROOM A106		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A106, TV/AMP	30
31	CHARGING STATION, CLASS A112		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A112	32
33	CHARGING STATION, CLASS A112		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A112	34
35	REC-CLASSROOM A112		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A112, TV/AMP	36
37	CHARGING STATION, CLASS A113		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A113	38
39	CHARGING STATION, CLASS A113		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A113	40
41	REC-CLASSROOM A113		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A113, TV/AMP	42
43	CHARGING STATION, CLASS A114		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A114	44
45	CHARGING STATION, CLASS A114		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A114	46
47	REC-CLASSROOM A114		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A114, TV/AMP	48
49	CHARGING STATION, CLASS A115		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS A115	50
51	CHARGING STATION, CLASS A115		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM A115	52
53	REC-CLASSROOM A115		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A115, TV/AMP	54
55	REC-CORRIDOR A101		20 A	1	1620 VA	360 VA					1	20 A		REC-DATA A107a, TTBA	56
57	REC-IDFA, DATA A107a		20 A	2			600 VA	1080 VA			1	20 A		REC-RM...	58
59	--		--	--					600 VA	500 VA	1	20 A	1	REC-WATER FOUNTAIN, FOY....	60
61	DDCA, JAN. 107'		20 A	1	1000 VA	720 VA					1	20 A	1	REC-BASIN SINKS, FOYER A101a	62
63	CONDENSATE (FC-A1)/RP-1,...		20 A	1			205 VA	2 VA			1	20 A	1	PLUMBING FIXTURES	64
65	CU-A1, ROOF A		15 A	2					140 VA	2 VA	1	20 A	1	PLUMBING FIXTURES	66
67	--		--	--	140 VA	500 VA					1	20 A	2	NAC-A, DATA A107a	68
69	Spare		20 A	1			0 VA	120 VA			1	20 A		ACCESS CONTROLS, VEST. A109	70
71	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	72
			Total Load:		13340 VA		16227 VA		15462 VA						
			Total Amps:		111 A		138 A		132 A						

Legend:

Branch Panel: LC1

Location: STORAGE C125
Supply From: DPB
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
72CKT SINGLE SECTION PANELBOARD
1) GFCI FOR PERSONNEL PROTECTION (5mA); 2) RED HANDLE, LOCKABLE BREAKER

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	CONDENSATE(FC-C1), I.T. C124		20 A	1	120 VA	720 VA					1	20 A		REC-ROOF	2
3	CU-C1, ROOF		20 A	2			1560 VA	360 VA			1	20 A		REC-ROOF AREA D	4
5	--		--	--					1560 VA	500 VA	1	20 A	2	NAC-C, IT C124	6
7	DOOR HOLDS, CORRIDOR C120	2	20 A	1	0 VA	500 VA					1	20 A		CHARGING STATION, CLASS A116	8
9	CHARGING STATION, CLASS A116		20 A	1			500 VA	500 VA			1	20 A		CHARGING STATION, CLASS A116	10
11	REC-CLASSROOM A116		20 A	1					1080 VA	900 VA	1	20 A		REC-CLASSROOM A116	12
13	REC-CLASSROOM A116, TV/AMP		20 A	1	680 VA	500 VA					1	20 A		CHARGING STATION, CLASS A118	14
15	CHARGING STATION, CLASS A118		20 A	1			500 VA	500 VA			1	20 A		CHARGING STATION, CLASS A118	16
17	REC-CLASSROOM A118		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM A118, TV/AMP	18
19	REC-CLASSROOM A118		20 A	1	1080 VA	500 VA					1	20 A		CHARGING STATION, CLASS A117	20
21	CHARGING STATION, CLASS A117		20 A	1			500 VA	500 VA			1	20 A		CHARGING STATION, CLASS A117	22
23	REC-CLASSROOM A117		20 A	1					1080 VA	900 VA	1	20 A		REC-CLASSROOM A117	24
25	REC-CLASSROOM A117, TV/AMP		20 A	1	680 VA	900 VA					1	20 A		REC-COMPUTER LAB A119	26
27	REC-COMPUTER LAB A119		20 A	1			900 VA	680 VA			1	20 A		REC-COMPUTER LAB A119,...	28
29	REC-TITLE ONE A123		20 A	1					900 VA	1080 VA	1	20 A		REC-READING A122	30
31	REC-TITLE ONE A123, TV/AMP		20 A	1	680 VA	680 VA					1	20 A		REC-READING A122, TV/AMP	32
33	REC-E.L. A121		20 A	1			1080 VA	900 VA			1	20 A		REC-CORRIDOR C116/C120	34
35	REC-COUNS. A120		20 A	1					720 VA	680 VA	1	20 A		REC-E.L. A121, TV/AMP	36
37	REC-RESOURCE C121		20 A	1	1080 VA	680 VA					1	20 A		REC-RESOURCE C121, TV/AMP	38
39	REC-VEST. B120a/CORRIDOR C119		20 A	1			1080 VA	1080 VA			1	20 A		REC-RESOURCE C122	40
41	REC-RESOURCE C122, TV/AMP		20 A	1					680 VA	900 VA	1	20 A		REC-CLASSROOM C123	42
43	REC-CLASSROOM C123		20 A	1	1080 VA	680 VA					1	20 A		REC-CLASSROOM C123, TV/AMP	44
45	REC-WORKROOM C118a		20 A	1			1080 VA	1260 VA			1	20 A		REC-DESK, LIBRARY C118	46
47	REC-LIBRARY C118, STORAGE...		20 A	1					1080 VA	1000 VA	1	20 A		REC-PRINTER, STORAGE C125	48
49	REC-RM C124/125/126		20 A	1	720 VA	500 VA					1	20 A		REC-WASHER, W/D C126	50
51	REC-DRYER, W/D C126		30 A	2			2496 VA	600 VA			2	20 A		REC-SERVER, I.T. C124	52
53	--		--	--					2496 VA	600 VA	--	--		--	54
55	REC-TTB, I.T. C124		20 A	1	360 VA	360 VA					1	20 A		REC-TTB, I.T. C124	56
57	PLUMBING FIXTURES	1	20 A	1			2 VA	900 VA			1	20 A		REC-SENSORTY, C127/TOILET...	58
59	REC-VENDING, FACULTY C113	1	20 A	1					720 VA	540 VA	1	20 A		REC-W. C115/M.C114	60
61	REC-VENDING, FACULTY C113	1	20 A	1	720 VA	1200 VA					1	20 A		REC-DISPOSAL, RESOURCE C113	62
63	REC-FRIDGE, FACULTY C113	1	20 A	1			720 VA	1080 VA			1	20 A		REC-FACULTY C113	64
65	ACCESS CNTRL., CORRIDOR C120		20 A	1					120 VA	360 VA	1	20 A		REC-TTB, I.T. C124	66
67	Spare		20 A	1	0 VA	680 VA					1	20 A		DOOR LOCK, SENSORY C123b	68
69	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	70
71	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	72
			Total Load:		15100 VA		18778 VA		19476 VA						
			Total Amps:		126 A		161 A		167 A						

Legend:

Branch Panel: LB1

Location: JAN. B110
Supply From: DPB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
72CKT SINGLE SECTION PANELBOARD
1) GFCI FOR PERSONNEL PROTECTION (5mA); 2) RED HANDLE, LOCKABLE BREAKER

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	CHARGING STATION, CLASS B106		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B106	2
3	CHARGING STATION, CLASS B106		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B106	4
5	REC-CLASSROOM B106		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B106, TV/AMP	6
7	CHARGING STATION, CLASS B107		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B107	8
9	CHARGING STATION, CLASS B107		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B107	10
11	REC-CLASSROOM B107		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B107, TV/AMP	12
13	CHARGING STATION, CLASS B109		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B109	14
15	CHARGING STATION, CLASS B109		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B109	16
17	REC-CLASSROOM B109		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B109, TV/AMP	18
19	CHARGING STATION, CLASS B108		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B108	20
21	CHARGING STATION, CLASS B108		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B108	22
23	REC-CLASSROOM B108		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B108, TV/AMP	24
25	CHARGING STATION, CLASS B115		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B115	26
27	CHARGING STATION, CLASS B115		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B115	28
29	REC-CLASSROOM B115		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B115, TV/AMP	30
31	CHARGING STATION, CLASS B117		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B117	32
33	CHARGING STATION, CLASS B117		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B117	34
35	REC-CLASSROOM B117		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B117, TV/AMP	36
37	CHARGING STATION, CLASS B116		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B116	38
39	CHARGING STATION, CLASS B116		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B116	40
41	REC-CLASSROOM B116		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B116, TV/AMP	42
43	CHARGING STATION, CLASS B119		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS B119	44
45	CHARGING STATION, CLASS B119		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM B119	46
47	REC-CLASSROOM B119		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM B119, TV/AMP	48
49	REC-CORRIDOR B101,FOYER...		20 A	1	1080 VA	1260 VA					1	20 A		REC-RM B110-114	50
51	PLUMBING FIXTURES, GIRLS 112	1	20 A	1			2 VA	180 VA			1	20 A		DDCB, JAN. B110	52
53	PLUMBING FIXTURES, GIRLS 113	1	20 A	1					2 VA	143 VA	1	20 A		EF-B1/RP-1, JANITOR B110	54
55	REC-BASIN SINKS, FOYER B101a	1	20 A	1	720 VA	360 VA					1	20 A		REC-ROOF	56
57	REC-WATER FOUNTAIN, FOY....	1	20 A	1			360 VA	1080 VA			1	20 A		REC-TALENTED GIFTED B121	58
59	NAC-B, JAN. B110	2	20 A	1					500 VA	540 VA	1	20 A		REC-TALENTED GIFTED B121	60
61	DOOR HOLDS, CORRIDOR B101	2	20 A	1	0 VA	680 VA					1	20 A		REC-TALENTED GIFTED B121,...	62
63	ACCESS CONTROLS, VEST. B111		20 A	1			120 VA	0 VA			1	20 A		Spare	64
65	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	66
67	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	68
69	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	70
71	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	72
			Total Load:		12100 VA		14382 VA		13825 VA						
			Total Amps:		101 A		122 A		117 A						

Legend:

Branch Panel: LD1

Location: JAN. D110
Supply From: DPB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
72CKT SINGLE SECTION PANELBOARD
1) GFCI FOR PERSONNEL PROTECTION (5mA); 2) RED HANDLE, LOCKABLE BREAKER; 3) SHUNT TRIP BREAKER FOR GROUND FAULT SHUTDOWN; 4) BREAKER WITH LOCKOUT HASP

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	CHARGING STATION, CLASS D102		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D102	2
3	CHARGING STATION, CLASS D102		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D102	4
5	REC-CLASSROOM D102		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D102, TV/AMP	6
7	CHARGING STATION, CLASS D103		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D103	8
9	CHARGING STATION, CLASS D103		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D103	10
11	REC-CLASSROOM D103		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D103, TV/AMP	12
13	CHARGING STATION, CLASS D104		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D104	14
15	CHARGING STATION, CLASS D104		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D104	16
17	REC-CLASSROOM D104		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D104, TV/AMP	18
19	CHARGING STATION, CLASS D105		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D105	20
21	CHARGING STATION, CLASS D105		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D105	22
23	REC-CLASSROOM D105		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D105, TV/AMP	24
25	CHARGING STATION, CLASS D111		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D111	26
27	CHARGING STATION, CLASS D111		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D111	28
29	REC-CLASSROOM D111		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D111, TV/AMP	30
31	CHARGING STATION, CLASS D112		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D112	32
33	CHARGING STATION, CLASS D112		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D112	34
35	REC-CLASSROOM D112		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D112, TV/AMP	36
37	CHARGING STATION, CLASS D113		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D113	38
39	CHARGING STATION, CLASS D113		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D113	40
41	REC-CLASSROOM D113		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D113, TV/AMP	42
43	CHARGING STATION, CLASS D114		20 A	1	500 VA	500 VA					1	20 A		CHARGING STATION, CLASS D114	44
45	CHARGING STATION, CLASS D114		20 A	1			500 VA	1080 VA			1	20 A		REC-CLASSROOM D114	46
47	REC-CLASSROOM D114		20 A	1					900 VA	680 VA	1	20 A		REC-CLASSROOM D114, TV/AMP	48
49	REC-COUNTER, RESOURCE D115		20 A	1	540 VA	500 VA					1	20 A		REC-DISHWASHER, RES. D115	50
51	REC-DISPOSAL, RESOURCE D115		20 A	1			1200 VA	4160 VA			2	50 A	3,4	REC-RANGE, RESOURCE D115	52
53	REC-RESOURCE D115		20 A	1					1080 VA	4160 VA	--	--	3,4	--	54
55	REC-CLASSROOM D115, TV/AMP		20 A	1	680 VA	--					1	--	3,4	SHUNT TRIP (H-D1)	56
57	PLUMBING FIXTURES	1	20 A	1			0 VA	120 VA			1	20 A	2	H-D1 ANSUL PANEL, D115	58
59	PLUMBING FIXTURES	1	20 A	1					4 VA	500 VA	1	20 A		H-D1, RESOURSE D115	60
61	REC- COOR. D101, FOYER D101a	1	20 A	1	1440 VA	120 VA					1	20 A		GROUND FAULT RELAY, D115	62
63	REC-BASIN SINKS, FOYER D101a	1	20 A	1			720 VA	360 VA			1	20 A		REC-RM D115a/b	64
65	REC-WATER FOUNTAIN, FOY....	1	20 A	1					500 VA	1440 VA	1	20 A		REC-P.T./O.T. 116, TITLE ONE D117	66
67	EF-D1/RP-1, JANITOR D110		20 A	1	143 VA	720 VA					1	20 A		REC-BOYS D108, GIRLS D109	68
69	ACCESS CONTROLS, VEST. D107		20 A	1			500 VA	1000 VA			1	20 A	2	DDCD, JAN.D110	70
71	Spare		20 A	1					0 VA	500 VA	1	20 A		NAC-D, JAN D110	72
			Total Load:		12143 VA		20700 VA		20824 VA						
			Total Amps:		101 A		183 A		185 A						

Legend:

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PROFESSIONAL ENGINEER REGISTERED 10389 3/2/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:
E10.2
ELECTRICAL SCHEDULES

Branch Panel: LE1

Location: ELEC. E106
Supply From: DPB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:
120CKT 2 SECTION PANELBOARD
1) GFCI FOR PERSONNEL PROTECTION (5mA); 2) RED HANDLE, LOCKABLE BREAKER

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	DDCE, ELECTRICAL E106		20 A	1	1000 VA	58 VA					1	20 A		EF-A1, JAN.A107	2
3	EF-E1, JANITOR E109		20 A	1			58 VA	120 VA			1	20 A		CONDENSATE(FC-F1), STORAGE...	4
5	EH-F1, HALLWAY F102		20 A	1					58 VA	120 VA	1	20 A		CONDENSATE(FC-E1), I.T. E116	6
7	WH-6, MECHANICAL E111		20 A	1	300 VA	720 VA					1	20 A		B-1, MECHANICAL E111	8
9	B-2, MECHANICAL E111		20 A	1			720 VA	864 VA			1	20 A		BP-1, MECHANICAL E111	10
11	BP-2, MECHANICAL E111		20 A	1					864 VA	1176 VA	1	20 A		P-3, MECHANICAL E111	12
13	GAS SERVICE SOLENOID,MECH...		20 A	1	120 VA	1040 VA					2	15 A		CU-F1, ROOF AREA F	14
15	REC-ROOF, AREA F		20 A	1			360 VA	1040 VA			--	--		--	16
17	CU-E1, ROOF AREA E		15 A	2					1040 VA	900 VA	1	20 A		REC-ROOF, AREA E	18
19	--		--	--	1040 VA	1198 VA					1	20 A		EF-E1, ROOF	20
21	EF-E3, ROOF		20 A	1			1028 VA	0 VA			1	20 A	2	FACP, MECH E111	22
23	NAC-E, ELEC. E106	2	20 A	1					500 VA	0 VA	1	20 A	2	BELL/TAMPER/PRESSURE/FLOW	24
25	NAC-F, STORAGE F101a	2	20 A	1	500 VA	180 VA					1	20 A		DDC, MECHANICAL E111	26
27	LTS-TACK LTS, STAGE F101		20 A	1			180 VA	720 VA			1	20 A		REC-OFFICE C110	28
29	REC-OFFICE C108		20 A	1					720 VA	900 VA	1	20 A		REC-PRINCIPLE C107	30
31	REC-T.O. C109/111/112, ST C106		20 A	1	1260 VA	1000 VA					1	20 A		REC-PRINTER, WORKROOM C105	32
33	REC-WORKROOM C105		20 A	1			720 VA	720 VA			1	20 A		REC-WORKROOM C105, ST. C105a	34
35	REC-FRIDGE, NURSE C104	1	20 A	1					720 VA	1080 VA	1	20 A		REC-NURSE C104, RR C104a	36
37	REC-CONFERENCE C103		20 A	1	720 VA	900 VA					1	20 A		REC-RECEPTION C102, CORR....	38
39	REC-CONFERENCE C103		20 A	1			720 VA	720 VA			1	20 A		REC-FOYER C101, VEST C100	40
41	REC-DESK, RECEPTIONI C102		20 A	1					1260 VA	1000 VA	1	20 A		ACCESS CONTROLS, VEST. C100	42
43	ADA DOOR OPERATORS, VEST....		20 A	1	1720 VA	720 VA					1	20 A		REC-GYM E100	44
45	REC-GYM E100		20 A	1			720 VA	500 VA			1	20 A		MOTORIZED BACKBOARD, GYM...	46
47	MOTORIZED BACKBOARD, GYM...		20 A	1					500 VA	900 VA	1	20 A		REC-P.E. E100a/E103	48
49	REC-ELEC E106/E105/E116		20 A	1	900 VA	360 VA					1	20 A		REC-TTB, I.T. E116	50
51	REC-CUST. OFICE E104		20 A	1			720 VA	720 VA			1	20 A		REC-MECH. E111	52
53	REC-SERVER, I.T. E116		20 A	2					600 VA	540 VA	1	20 A		REC-W. E112, M.E113, ST. E102	54
55	--		--	--	600 VA	1440 VA					1	20 A		REC-CAFETORIUM F100/HALL F102	56
57	REC-WATER FOUNTAIN, F100	1	20 A	1			500 VA	1080 VA			1	20 A		REC-MUSIC F103	58
59	REC-CAFETORIUM F100		20 A	1					900 VA	540 VA	1	20 A		REC-MUSIC F103	60
61	LTS-TACK LTS, STAGE F101		20 A	1	180 VA	1260 VA					1	20 A		REC-STAGE F101	62
63	REC-MUSIC F103, TV/AMP		20 A	1			680 VA	180 VA			1	20 A		REC-SOUND, P.E. OFFICE 103	64
65	REC-STAGE F101/ST. F101a		20 A	1					1080 VA	111 VA	1	20 A		DF-4/5/6, GYMNASIUM E100	66
67	REC-SOUND, ST. F100a		20 A	1	180 VA	0 VA					1	20 A		Spare	68
69	KITCHEN DOOR CHIME		20 A	1			300 VA	0 VA			1	20 A		Spare	70
71	DF-1/2/3, CAFETORIUM F100		20 A	1					111 VA	0 VA	1	20 A		Spare	72
73	SCOREBOARD, GYM E100		20 A	1	500 VA	0 VA					1	20 A		Spare	74
75	MOTORIZED SCREEN, GYM E100		20 A	1			500 VA	0 VA			1	20 A		Spare	76
77	REC-PROJECTOR, GYM E100		20 A	1					360 VA	0 VA	1	20 A		Spare	78
79	IRRIGATION CONTR., ELEC E106		20 A	1	120 VA	0 VA					1	20 A		Spare	80
81	FLOW METER, MECHANICAL E111		20 A	1			500 VA	0 VA			1	20 A		Spare	82
83	BOILER CONTACTOR CABINET		20 A	1					180 VA	0 VA	1	20 A		Spare	84
85	ACCESS CONTROLS, CORRIDOR...		20 A	1	240 VA	0 VA					1	20 A		Spare	86
87	ACCESS CONTROLS, HALL F102		20 A	1			120 VA	0 VA			1	20 A		Spare	88
89	MOTORIZED SCREEN,...		20 A	1					500 VA	0 VA	1	20 A		Spare	90
91	REC-PROJECTOR, CAFETORIUM...		20 A	1	360 VA	0 VA					1	20 A		Spare	92
93	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	94
95	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	96
97	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	98
99	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	100
101	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	102
103	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	104
105	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	106
107	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	108
109	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	110
111	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	112
113	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	114
115	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	116
117	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	118
119	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	120
			Total Load:		18616 VA		14490 VA		16660 VA						
			Total Amps:		158 A		121 A		142 A						

Legend:

Branch Panel: HE1

Location: ELEC. E106
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 600 A
MCB Rating:

Notes:
120CKT TWO SECTION PANELBOARD
1) GFEP FOR EQUIPMENT PROTECTION (30mA)

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	HP-C5, FACULTY C113		25 A	1	4238 VA	2465 VA					1	15 A		HP-C6, CORRIDOR C102a	2
3	HP-C7, CORRIDOR C102b		15 A	1			2465 VA	5014 VA			1	25 A		HP-C8, FOYER C101	4
5	HP-C9, CORRIDOR C116		15 A	1					3186 VA	1828 VA	3	15 A		HP-C10, RECEPTION C102	6
7	HP-C11, CORRIDOR C116		15 A	3	3712 VA	1828 VA					--	--		--	8
9	--		--	--			3712 VA	1828 VA			--	--		--	10
11	--		--	--					3712 VA						12
13	WH-4, STORAGE C105a		40 A	3	8000 VA										14
15	--		--	--			8000 VA								16
17	--		--	--					8000 VA	1081 VA	1	15 A		HP-C13, CORRIDOR C116	18
19	HP-E1, CUST. OFFICE E104		15 A	1	3186 VA	8000 VA					3	40 A		WH-5, JANITOR E109	20
21	HP-E2, CORRIDOR E101		20 A	3			4626 VA	8000 VA			--	--		--	22
23	--		--	--					4626 VA	8000 VA	--	--		--	24
25	--		--	--	4626 VA	3712 VA					3	15 A		HP-F1, STORAGE F101a	26
27	HP-F2, MUSIC F103		15 A	3			3130 VA	3712 VA			--	--		--	28
29	--		--	--					3130 VA	3712 VA	--	--		--	30
31	--		--	--	3130 VA	2000 VA					1	20 A		EH-E1, CORRIDOR E101	32
33	EH-C1, VESTIBULE C100		20 A	1			3000 VA	5000 VA			1	25 A		EH-E2, MECHANICAL E111	34
35	EH-F2, STORAGE F100a		20 A	1					2000 VA	5817 VA	3	20 A		VFD-2 (P-2), MECHANICAL E111	36
37	RTU-1A, ROOF AREA E		60 A	3	11662 VA	5817 VA					--	--		--	38
39	--		--	--			11662 VA	5817 VA			--	--		--	40
41	--		--	--					11662 VA	1717 VA	3	15 A		ERU-C1, ROOF	42
43	RTU-2A, ROOF AREA E		60 A	3	12770 VA	1717 VA					--	--		--	44
45	--		--	--			12770 VA	1717 VA			--	--		--	46
47	--		--	--					12770 VA	11662 VA	3	60 A		RTU-1B, ROOF AREA E	48
49	LTS-EXTERIOR PARKING E. & N.E.		20 A	1	1242 VA	11662 VA					--	--		--	50
51	ROOF DRAIN HEAT TAPE, AREA...	1	20 A	1			1750 VA	11662 VA			--	--		--	52
53	CANOPY HEAT TAPE, AREA C	1	20 A	1					700 VA	12770 VA	3	60 A		RTU-2B, ROOF AREA E	54
55	ROOF DRAIN HEAT TAPE, AREA F	1	20 A	1	1400 VA	12770 VA					--	--		--	56
57	ROOF/CANOPY HEAT TAPE, ARE...	1	20 A	1			1400 VA	12770 VA			--	--		--	58
59	VFD-1 (P-1), MECHANICAL E111		30 A	3					5817 VA	970 VA	3	15 A		ERU-F1, ROOF	60
61	--		--	--	5817 VA	970 VA					--	--		--	62
63	--		--	--			5817 VA	970 VA			--	--		--	64
65	LTS-HALL AREA C		20 A	1					1061 VA	12400 VA	3	60 A		K18 - SINGLE FLOOR COMBI OVEN	66
67	LTS-EXTERIOR BUILDING, AREA...		20 A	1	264 VA	12400 VA					--	--		--	68
69	LTS-HALL AREA E		20 A	1			165 VA	12400 VA			--	--		--	70
71	LTS- AREA C		20 A	1					2025 VA	167 VA	3	60 A		K18 - SINGLE FLOOR COMBI OVEN	72
73	LTS- AREA C		20 A	1	1437 VA	167 VA					--	--		--	74
75	LTS-GYM E100		20 A	1			1260 VA	167 VA			--	--		--	76
77	LTS-GYM E100		20 A	1					1260 VA	0 VA	1	20 A		Spare	78
79	LTS-GYM E100		20 A	1	1260 VA	0 VA					1	20 A		Spare	80
81	LTS- AREA E		20 A	1			1169 VA	0 VA			1	20 A		Spare	82
83	LTS-CAFETORIUM F100		20 A	1					1050 VA	0 VA	1	20 A		Spare	84
85	LTS-CAFETORIUM F100		20 A	1	1050 VA	0 VA					1	20 A		Spare	86
87	LTS-CAFETORIUM F100		20 A	1			1050 VA	0 VA			1	20 A		Spare	88
89	LTS-CAFETORIUM F100		20 A	1					1050 VA	0 VA	1	20 A		Spare	90
91	LTS-AREA F		20 A	1	1156 VA	0 VA					1	20 A		Spare	92
93	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	94
95	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	96
97	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	98
99	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	100
101	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	102
103	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	104
105	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	106
107	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	108
109	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	110
111	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	112
113	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	114
115	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	116
117	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	118
119	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	120
			Total Load:		127839 VA		129915 VA		121497 VA						
			Total Amps:		465 A		473 A		439 A						

Legend:

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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: 21-422

Revisions
Description
Date
#

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:
E10.3
ELECTRICAL SCHEDULES

Branch Panel: HA1

Location: JAN. A107
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:
60CKT SINGLE SECTION PANELBOARD
1) CIRCUIT PART OF BID ALTERNATE 1; 2) CIRCUIT PART OF BASE BID ONLY. REMOVE FOR BID ALTERNATE 1; 3) GFEP FOR EQUIPMENT PROTECTION (30mA)

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	HP-A1, CORRIDOR A101	1	15 A	3	3031 VA	3031 VA					3	15 A	1	HP-A2, CORRIDOR A101	2
3	--	1	--	--			3031 VA	3031 VA			--	--	1	--	4
5	--	1	--	--					3031 VA	3031 VA	--	--	1	--	6
7	HP-A3, CORRIDOR A101	1	15 A	3	3031 VA	3031 VA					3	15 A	1	HP-A4, CORRIDOR A101	8
9	--	1	--	--			3031 VA	3031 VA			--	--	1	--	10
11	--	1	--	--					3031 VA	3031 VA	--	--	1	--	12
13	HP-A5, CORRIDOR A101		15 A	1	9390 VA	3130 VA					3	15 A		HP-A6, CORRIDOR A101	14
15	HP-A7, CORRIDOR A101		15 A	3			3130 VA	3130 VA			--	--		--	16
17	--		--	--					3130 VA	3130 VA	--	--		--	18
19	--		--	--	3130 VA	5014 VA					1	25 A		HP-A8, CORRIDOR A101	20
21	HP-A10, CORRIDOR A101		15 A	3			3130 VA	3130 VA			3	15 A		HP-A9, CORRIDOR A101	22
23	--		--	--					3130 VA	3130 VA	--	--		--	24
25	--		--	--	3130 VA	3130 VA					--	--		--	26
27	HP-A12, CORRIDOR A101		25 A	1			5014 VA	3130 VA			3	15 A		HP-A11, CORRIDOR A101	28
29	HP-A13, CORRIDOR A101		15 A	3					3712 VA	3130 VA	--	--		--	30
31	--		--	--	3712 VA	3130 VA					--	--		--	32
33	--		--	--			3712 VA	3130 VA			3	15 A		HP-A14, CORRIDOR A101	34
35	EH-A1, VESTIBULE A100		20 A	1					2000 VA	3130 VA	--	--		--	36
37	WH-1, JAN. A107		40 A	3	8000 VA	3130 VA					--	--		--	38
39	--		--	--			8000 VA	2000 VA			1	20 A		EH-A2, VESTIBULE A109	40
41	--		--	--					8000 VA	2465 VA	3	15 A		ERU-A1, ROOF A	42
43	ERU-A2, ROOF A		15 A	3	2465 VA	2465 VA					--	--		--	44
45	--		--	--			2465 VA	2465 VA			--	--		--	46
47	--		--	--					2465 VA	2000 VA	1	20 A	2	EH-A3, TOILET A111	48
49	LTS-EXTERIOR BUILDING, AREA A		20 A	1	134 VA	3000 VA					1	20 A	2	EH-4, GIRLS A108	50
51	LTS-HALL AREA A		20 A	1			626 VA	1400 VA			1	20 A	3	ROOF DRAIN HEAT TAPE, AREA A	52
53	LTS-AREA A		20 A	1					2884 VA	1000 VA	1	20 A	3	CANOPY HEAT TAPE, AREA A	54
55	LTS-AREA A		20 A	1	2808 VA	0 VA					1	20 A		Spare	56
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	58
59	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	60
			Total Load:		67758 VA		56173 VA		54586 VA						
			Total Amps:		245 A		204 A		197 A						

Legend:

Branch Panel: HB1

Location: JAN. B110
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
60CKT SINGLE SECTION PANELBOARD
1) GFEP FOR EQUIPMENT PROTECTION (30mA)

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	HP-B1, CORRIDOR B101		15 A	3	3130 VA	3622 VA					3	15 A		HP-B2	2
3	--		--	--			3130 VA	3622 VA			--	--		--	4
5	--		--	--					3130 VA	3622 VA	--	--		--	6
7	HP-B3, CORRIDOR B101		15 A	3	3130 VA	3130 VA					3	15 A		HP-B4, CORRIDOR B101	8
9	--		--	--			3130 VA	3130 VA			--	--		--	10
11	--		--	--					3130 VA	3130 VA	--	--		--	12
13	HVAC		15 A	1	3185 VA	3130 VA					3	15 A		HP-B6, CORRIDOR B101	14
15	HVAC		25 A	1			5014 VA	3130 VA			--	--		--	16
17	HP-C12, WORKROOM C118a		20 A	1					2465 VA	3130 VA	--	--		--	18
19	HP-B7, CORRIDOR B101		15 A	3	3130 VA	3130 VA					3	15 A		HP-B8, CORRIDOR B101	20
21	--		--	--			3130 VA	3130 VA			--	--		--	22
23	--		--	--					3130 VA	3130 VA	--	--		--	24
25	HP-A16, CORRIDOR C120		20 A	1	7396 VA	3130 VA					3	15 A		HP-B10, CORRIDOR B101	26
27	EH-B2, VESTIBULE B111		20 A	1			2000 VA	3130 VA			--	--		--	28
29	EH-B2, VESTIBULE B120a		20 A	1					2000 VA	3130 VA	--	--		--	30
31	ERU-B1, ROOF		15 A	3	1302 VA	2000 VA					1	20 A		EH-B1, VESTIBULE B100	32
33	--		--	--			1302 VA	8000 VA			3	40 A		WH-2, JANITOR B110	34
35	--		--	--					1302 VA	8000 VA	--	--		--	36
37	ROOF DRAIN HEAT TAPE, AREA B	1	20 A	1	1050 VA	8000 VA					--	--		--	38
39	CANOPY HEAT TAPE, AREA B	1	20 A	1			1500 VA	1717 VA			3	15 A		ERU-B2, ROOF	40
41	Spare		20 A	1					0 VA	1717 VA	--	--		--	42
43	Spare		20 A	1	0 VA	1717 VA					--	--		--	44
45	Spare		20 A	1			0 VA	105 VA			1	20 A		LTS-EXTERIOR BUILDING, AREA B	46
47	Spare		20 A	1					0 VA	488 VA	1	20 A		LTS-HALL AREA B	48
49	Spare		20 A	1	0 VA	1642 VA					1	20 A		LTS-AREA B	50
51	Spare		20 A	1			0 VA	1879 VA			1	20 A		LTS-AREA B	52
53	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	54
55	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	56
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	58
59	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	60
			Total Load:		51370 VA		46589 VA		41102 VA						
			Total Amps:		189 A		171 A		148 A						

Legend:

Branch Panel: HD1

Location: JAN. D110
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
60CKT SINGLE SECTION PANELBOARD
1) CIRCUIT PART OF BID ALTERNATE 2; 2) CIRCUIT PART OF BASE BID ONLY. REMOVE FOR BID ALTERNATE 2; 3) GFEP FOR EQUIPMENT PROTECTION (30mA)

CKT	Circuit Description	Ckt Notes	Trip	Poles	A		B		C		Poles	Trip	Ckt Notes	Circuit Description	CKT
1	HP-D2, CORRIDOR D101	1	25 A	1	5014 VA	5014 VA					1	25 A	1	HP-D1, CORRIDOR D101	2
3	HP-D4, CORRIDOR D101	1	15 A	3			3130 VA	5014 VA			1	25 A	1	HP-D3, CORRIDOR D101	4
5	--	1	--	--					3130 VA	2000 VA	1	20 A		EH-D1, VESTIBULE D100	6
7	--	1	--	--	3130 VA	2000 VA					1	20 A		EH-D2, VESTIBULE D107	8
9	HP-D6, CORRIDOR D101		25 A	1			5014 VA	3186 VA			1	15 A		HP-D5, CORRIDOR D101	10
11	HP-D7, CORRIDOR D101		25 A	1					5014 VA	5014 VA	1	25 A		HP-D8, CORRIDOR D101	12
13	HP-D9, CORRIDOR D101		15 A	3	3130 VA	5014 VA					1	25 A		HP-D10, CORRIDOR D101	14
15	--		--	--			3130 VA	2465 VA			1	15 A		HP-A15, CORRIDOR C120	16
17	--		--	--					3130 VA	1828 VA	3	15 A		HP-C1, CORRIDOR C120	18
19	HP-C2, CORRIDOR C116		15 A	1	3186 VA	1828 VA					--	--		--	20
21	HP-C3, CORRIDOR C116		15 A	1			3186 VA	1828 VA			--	--		--	22
23	HP-C4, CORRIDOR C116		25 A	1					4238 VA	8000 VA	3	40 A		WH-3, JANITOR D110	24
25	ERU-D1, ROOF		15 A	3	1302 VA	8000 VA					--	--		--	26
27	--		--	--			1302 VA	8000 VA			--	--		--	28
29	--		--	--					1302 VA	1634 VA	3	15 A		ERU-D2, ROOF	30
31	EH-D3, JAN D110	2	20 A	1	3000 VA	1634 VA					--	--		--	32
33	EH-D4, BOYS D108	2	20 A	1			3000 VA	1634 VA			--	--		--	34
35	ROOF DRAIN HEAT TAPE, AREA D	3	20 A	1					1050 VA	0 VA	1	20 A		Spare	36
37	CANOPY HEAT TAPE, AREA D	3	20 A	1	1000 VA	0 VA					1	20 A		Spare	38
39	LTS-EXTERIOR PARKING N.W.		20 A	1			1104 VA	0 VA			1	20 A		Spare	40
41	LTS-EXTERIOR BUILDING, AREA D		20 A	1					124 VA	0 VA	1	20 A		Spare	42
43	LTS-HALL AREA D		20 A	1	513 VA	0 VA					1	20 A		Spare	44
45	LTS-AREA D		20 A	1			2094 VA	0 VA			1	20 A		Spare	46
47	LTS-AREA D		20 A	1					1729 VA	0 VA	1	20 A		Spare	48
49	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	50
51	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	52
53	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	54
55	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	56
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	58
59	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	60
			Total Load:		42857 VA		43988 VA		37747 VA						
			Total Amps:		158 A		162 A		136 A						

Legend:

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PROFESSIONAL ENGINEER REGISTERED 10389 2/18/2022 STATE OF IDAHO KURT LECHTENBERG

MUSGROVE ENGINEERING, P.A.
project number: **21-422**

#	Revisions Description	Date

Jerome Elementary School
Jerome School District No. 261
N. 100 E. Jerome, Idaho

DATE: 02/11/2022
LKV PROJECT #: 2120

DRAWN BY: AN
CHECKED BY: KL

BID SET

DRAWING NO.:

E10.4
ELECTRICAL SCHEDULES