

An Addition to HORIZON ELEMENTARY SCHOOL

Jerome School District
Jerome, Idaho

December 17, 2021



PROJECT NO. 2122

Project Team							
OWNER	ARCHITECT	CONSTRUCTION MANAGER	CIVIL ENGINEER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	INTERIOR DESIGNER
Jerome School District 125 4th Ave. West Jerome, ID 83338	LKV Architects 2400 East Riverwalk Dr. Boise, Idaho 83706	Starr Corporation 2995 E. 3600 N. Twin Falls, ID 83301	EHM Engineers, Inc. 621 N. College Rd. #100 Twin Falls, ID 83301	McClendon Engineering, Inc. 1412 W. Idaho St. #240 Boise, ID 83702	Tikker Engineering 9050 W. Overland Rd #170 Boise, ID 83709	e2co 800 S. Industry Way Meridian, ID 83642	Weston Design Interiors 201 Parkway Dr. Boise, ID 83706
Brian Bridwell Primary Contact Phone: (208) 324-2392 brian.bridwell@jeromeschools.org	Amber VanOcker Architect Phone: (208) 336-3443 amber@kvarchitects.com	Jason Derricott Project Manager Phone: (208) 731-5699 jason@starrcorporation.com	David Thibault Project Manager Phone: (208) 734-4888 dthibault@ehminc.com	John Miller Project Manager Phone: (208) 342-2919 john@mcclendonengineering.com	Marcos Madrigal Project Manager Phone: (208) 658-0218 marcosm@tikkerengineering.com	Jon Van Stone Project Manager Phone: (208) 378-4450 jvanstone@e2co.com	Diane Weston Interior Design Phone: (208) 343-7878 westondesign14@gmail.com

Vicinity Map

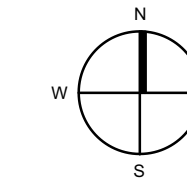


Project Location

Horizon Elementary School
934 10th Ave East
Jerome, ID 83338

Vicinity Map

No Scale



Sheet Schedule

A0.0 COVER SHEET

Civil Drawings

C0.01 CIVIL COVER SHEET
C1.01 SITE, GRADING & DRAINAGE PLAN
C5.01 MISCELLANEOUS DETAILS

Architectural Drawings

A1.1 MASTER KEYED NOTE LIST & LEGENDS
A1.2 CODE STUDY PLAN & IECC ENVELOPE COMPLIANCE
A2.0 ARCHITECTURAL PARTIAL SITE PLAN
(w/ site demolition)
A3.0 DEMOLITION PLAN
A3.1 FLOOR PLAN
A3.2 ENLARGED STAGE PLAN & DETAILS
A3.3 ENLARGED PLANS & DETAILS
A3.4 ROOM FINISH SCHEDULE, WALL TYPES
A4.1 DOOR SCHEDULE, DOOR / WINDOW DETAILS
A5.1 ELEVATIONS
A6.1 ROOF PLAN
A6.2 ROOF DETAILS
A7.1 BUILDING SECTIONS
A7.2 BUILDING SECTIONS
A7.3 WALL SECTIONS
A7.4 WALL SECTIONS
A9.1 INTERIOR ELEVATIONS & ARCHITECTURAL DETAILS
A11.1 REFLECTED CEILING PLAN

Structural Drawings

S1.0 GENERAL STRUCTURAL NOTES
S1.1 GENERAL STRUCTURAL NOTES
S2.0 PARTIAL FOUNDATION PLAN
S3.0 TYPICAL FOUNDATION DETAILS
S3.1 FOUNDATION DETAILS
S3.2 FOUNDATION DETAILS
S4.0 STAGE FLOOR FRAMING PLAN
S5.0 PARTIAL ROOF FRAMING PLAN
S6.0 TYPICAL FRAMING DETAILS
S6.1 FRAMING DETAILS
S6.2 FRAMING DETAILS

Mechanical Drawings

M1.0 MECHANICAL COVER SHEET
M2.1 HVAC PLAN
M3.0 WASTE & VENT PLAN
M4.0 PLUMBING PLAN
FP1.0 FIRE PROTECTION PLAN

Electrical Drawings

E0.0 ELECTRICAL SYMBOLS & SHEET INDEX
E2.0 OVERALL PLAN
E2.0DA ELECTRICAL DEMOLITION PLAN - AREA 'A'
E2.0DB ELECTRICAL DEMOLITION PLAN - AREA 'B'
E2.0DC ELECTRICAL DEMOLITION PLAN - AREA 'C'
E2.0DD ELECTRICAL DEMOLITION PLAN - AREA 'D'
E2.0FA FIRE ALARM PLAN- AREA 'A'
E2.0FB FIRE ALARM PLAN- AREA 'B'
E2.0FC FIRE ALARM PLAN- AREA 'C'
E2.0FD FIRE ALARM PLAN- AREA 'D'
E2.0L LIGHTING PLAN
E2.0MP MECHANICAL POWER PLAN
E2.0P POWER PLAN
E2.0S SPECIAL SYSTEMS PLAN
E3.0 ONE LINE DIAGRAM & ELECTRICAL DETAILS
E3.1 ELECTRICAL SCHEDULES



This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

DRAWING NO.:

A0.0
COVER SHEET

GENERAL NOTES:

- CONTRACTOR SHALL HAVE A CURRENT SET OF CONSTRUCTION PLANS STAMPED BY THE ENGINEER AT THE WORKSITE.
- 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.
- 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.
- RECORDED AND/OR FILED SURVEY MONUMENTS EXIST WITHIN THE LIMITS OF THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND/OR HAVE REPLACED ANY DISTURBED/DESTROYED MONUMENTS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND INGRESS AND EGRESS TO SAID CONSTRUCTION.
- CONTRACTOR SHALL REMOVE AND SORT ALL ON-SITE EXCAVATED NATIVE MATERIAL AND USE SUITABLE MATERIAL WHERE DESIGNATED ON THE CONSTRUCTION PLANS AS REQUIRING FILL MATERIAL. FILL SHALL BE PLACED AND COMPACTED BY METHODS APPROVED BY APPROVED BY THE DESIGN ENGINEER. ALL STRIPINGS NOT SUITABLE FOR FILL SHALL BE USED AS DIRECTED BY THE ENGINEER OR DISCARDED OFF-SITE AT THE CONTRACTOR'S EXPENSE. REMOVAL OF SUITABLE MATERIAL NOT NEEDED ON SITE SHALL BE COORDINATED WITH THE OWNER.
- 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.
- AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CALL "DIGLINE" 48 HOURS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT EXIST. 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.
- ALL CHANGES REQUIRE APPROVAL BY THE PROJECT ENGINEER. THE ENGINEER TAKES NO RESPONSIBILITY FOR ANY DEVIATIONS FROM THESE PLANS UNLESS AUTHORIZED, IN WRITING, BY THE ENGINEER.
- IDAHO CODE 39-118 REQUIRES IDAHO DEPT. OF ENVIRONMENTAL QUALITY (IDEQ) APPROVAL PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE COMPLIANCE.
- 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 CONSTRUCTION. SEE WEBSITE <http://cfpub.epa.gov/npdes/stormwater/csp.cfm>. QUESTIONS REGARDING THIS REQUIREMENT MAY BE REFERRED TO MISHA VAKOC OF EPA AT: (206) 553-6650. CONTRACTOR TO SUBMIT COPIES OF DOCUMENTS TO THE CITY OF TWIN FALLS.

Construction Drawings For

HORIZON ELEMENTARY

JEROME SCHOOL DISTRICT

Jerome, Idaho

2021

SHEET INDEX:

DESCRIPTION	SHEET NO.
CIVIL COVER SHEET	C0.01
SITE, GRADING & DRAINAGE PLAN	C1.01
MISCELLANEOUS DETAILS	C5.01

PROJECT BENCHMARK:

MAG NAIL IN SIDEWALK,
42 FEET EAST OF THE C OF WEST BUS LANE DRIVEWAY APPROACH,
ELEVATION = 3796.32 (NAVD 88 DATUM)

UTILITY COMPANY CONTACTS

IDAHO POWER JOINT TRENCH COORDINATOR P.O. BOX 8 TWIN FALLS, IDAHO 83301 1-208-316-1544 GEORGE KNAUPE	INTERMOUNTAIN GAS COMPANY 687 BLUE LAKES BLVD. N. TWIN FALLS, IDAHO 83301 1-208-737-6314 LANCE MCBRIDE	Q-WEST P.O. BOX 587 TWIN FALLS, IDAHO 83303 1-208-737-6322 JEFFERY SCHAMBER	CABLE ONE P.O. BOX 1946 TWIN FALLS, IDAHO 83303 1-208-733-6230 RON BURNS
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VERIFY ALL UTILITIES SHOWN BY FIELD LOCATES WITH DIGLINE. LOCATIONS SHOWN TAKEN FROM UTILITY COMPANY MAPS AND/OR RECORDS.

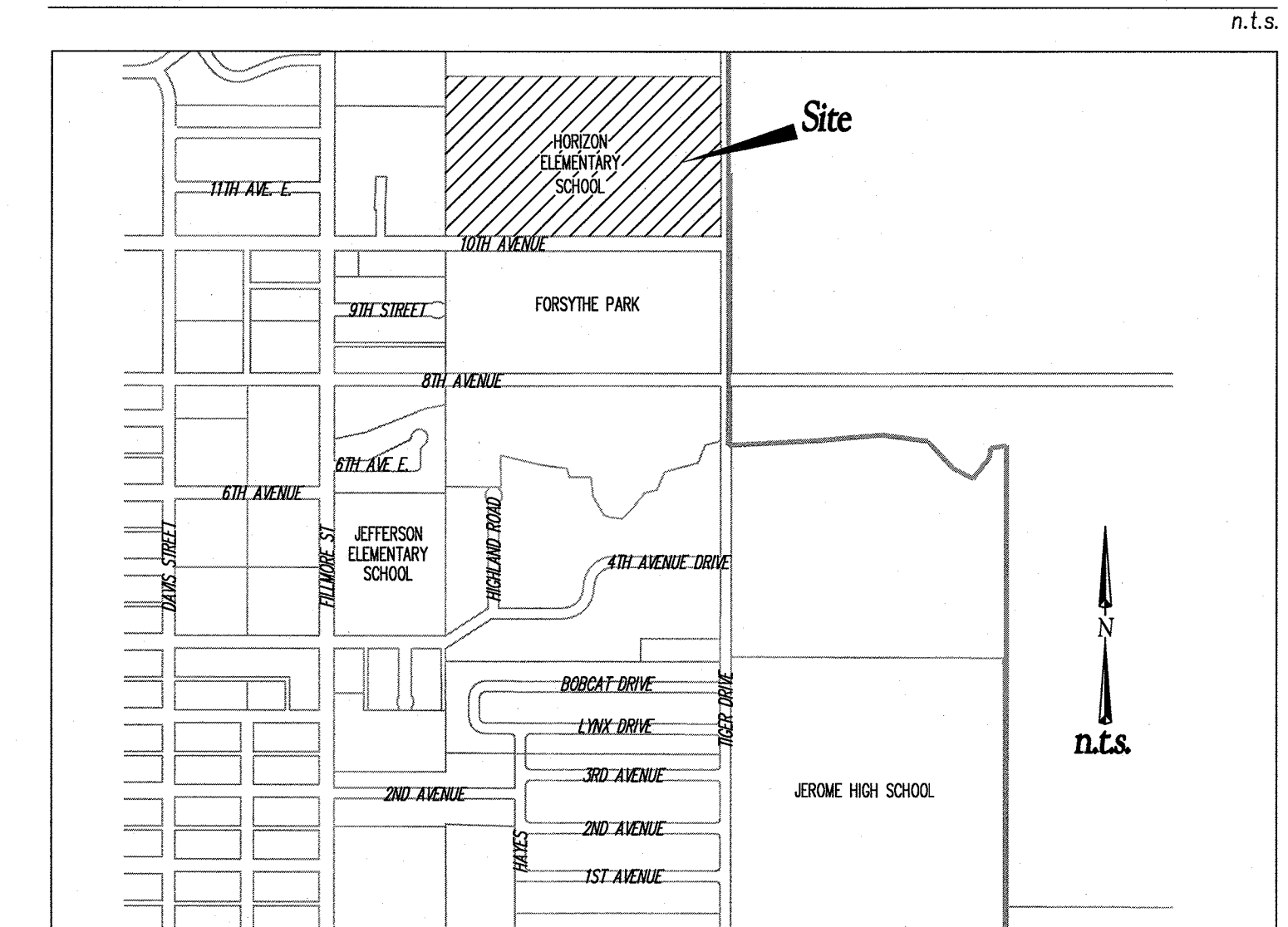
AGENCY CONTACTS

CITY FIRE DEPARTMENT 152 EAST AVENUE A JEROME, ID 83338 1-208-324-8189 TOM HUGHES	BUILDING DEPARTMENT 152 EAST AVENUE A JEROME, ID 83338 1-208-324-8189 DAVE RICHEY	SOUTH CENTRAL PUBLIC HEALTH 1020 WASHINGTON ST. N. TWIN FALLS, IDAHO 83301 1-208-737-5900 CRAG PAUL	CITY ENGINEER 820 4TH AVENUE WEST JEROME, ID 83338 1-208-324-9669 TYSON CARPENTER
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LEGEND:

	PROPOSED	EXISTING
PROPERTY BOUNDARY	---	---
ROADWAY CENTERLINE	---	---
EASEMENT LINE	---	---
WATER LINE	8"W	W
SANITARY SEWER LINE	8"SS	SS
STORM SEWER LINE	6"SD	SD
PRESSURE IRRIGATION LINE	4"PI	PI
GRAVITY IRRIGATION LINE	8"GI	IRR
CABLE TV LINE	TV	CTV
FIBER OPTIC LINE	F/O	FO
TELEPHONE LINE	T	TP
OVERHEAD POWER LINE	OHP	OP
UNDERGROUND POWER LINE	UP	UP
GAS LINE	G	G
STANDARD CURB & GUTTER	---	---
ROLLED CURB & GUTTER	---	---
SIDEWALK	---	---
EDGE OF ASPHALT	EA	EA
SEWER SERVICE	---	---
WATER SERVICE	---	---
IRRIGATION SERVICE	---	---
CLEAN-OUT	CO	CO
BLOW-OFF ASSEMBLY	BO	BO
AIR-INJECTION ASSEMBLY	AI	AI
FIRE HYDRANT	---	---
SEWER MANHOLE	---	---
IRRIGATION BOX	---	---
CATCH BASIN	---	---
CURB INLET	---	---
VALVE	---	---
GAS METER	---	---
TELEPHONE RISER	---	---
WELL	---	---
POWER POLE	---	---
GUY ANCHOR	---	---
SIGN	---	---
STREET LIGHT	---	---
MAILBOX	---	---
SECTION LINE	---	---
SECTION QUARTER LINE	---	---
SECTION SIXTEENTH LINE	---	---
SET 5/8" x 24" REBAR & CAP (LS)	---	---
SET 1/2" x 24" REBAR & CAP (LS)	---	---
FOUND 5/8" REBAR & CAP	---	---
FOUND 1/2" REBAR & CAP	---	---
FOUND BRASS CAP	---	---
FOUND ALUMINUM CAP	---	---

VICINITY SKETCH:



ABBREVIATIONS:

AB AS-BUILT	PC POINT OF CURVATURE
ADD'L ADDITIONAL	PI POINT OF INTERSECTION
APPR. A.A APPROACH	PIRR or PI PRESSURE IRRIGATION
BM BENCH MARK	POC POINT ON CURVE
CB CATCH BASIN	PT POINT OF TANGENCY
CBU CLUSTER BOX UNIT	RP RADIUS POINT
CL or C CENTER LINE	RT RIGHT
COTF CITY OF TWIN FALLS	REQ'D REQUIRED
CONST CONSTRUCT	RW RESILIENT WEDGE
CF CUBIC FEET	ROW or R/W RIGHT OF WAY
CY CUBIC YARD	SF SQUARE FOOT
DW or D/W DRIVEWAY	S SLOPE
DWG DRAWING	SD STORM SEWER
EA or EOA EDGE OF ASPHALT	SS SANITARY SEWER/SEWER SERVICE
EL or ELEV ELEVATION	STA STATION
FOC FACE OF CURB	STD STANDARD
FHYD or FH FIRE HYDRANT	TEMP TEMPORARY BENCH MARK
FG FINISHED GRADE	TRAIL TRAIL
FL FLOW LINE	TRAIL TOP OF HIGHBACK, STD
GB GRADE BREAK	TRANSITION
GI or GRR GRAVITY IRRIGATION	TWIN FALLS CITY ENGINEER
INT INTERSECTION	TYPE CALL
INV INVERT	UTILITY COMPANY
IRR IRRIGATION/IRRIGATION SERVICE	UTILITY CALL
ISPCW IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION	UTILITY POINT OF ATTENTION
LF LINEAR FOOT	VERTICAL POINT OF INTERSECTION
LG LIP OF GUTTER	VERTICAL POINT OF ENCLOSURE
LT LEFT	
MH MANHOLE	
N/A NOT APPLICABLE	
NTS NOT TO SCALE	

BLD211720033

REVIEWED FOR PERMITS COMPLIANCE

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SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

EHM Engineers, Inc.
BUILDING THE FUTURE ONE FOUNDATION OF EXCELLENCE
Engineers / Surveyors / Planners
621 North College Road, Suite 100 Twin Falls, Idaho 83301
P. (208) 734-4688 Fax: (208) 734-6049 web: emmic.com

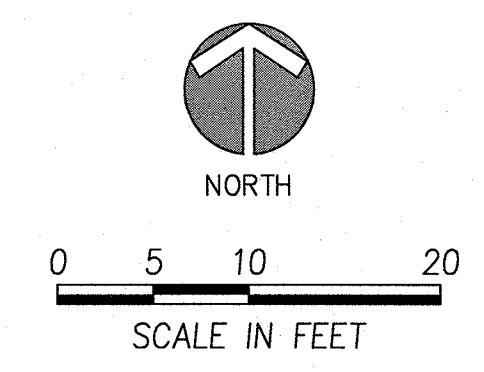
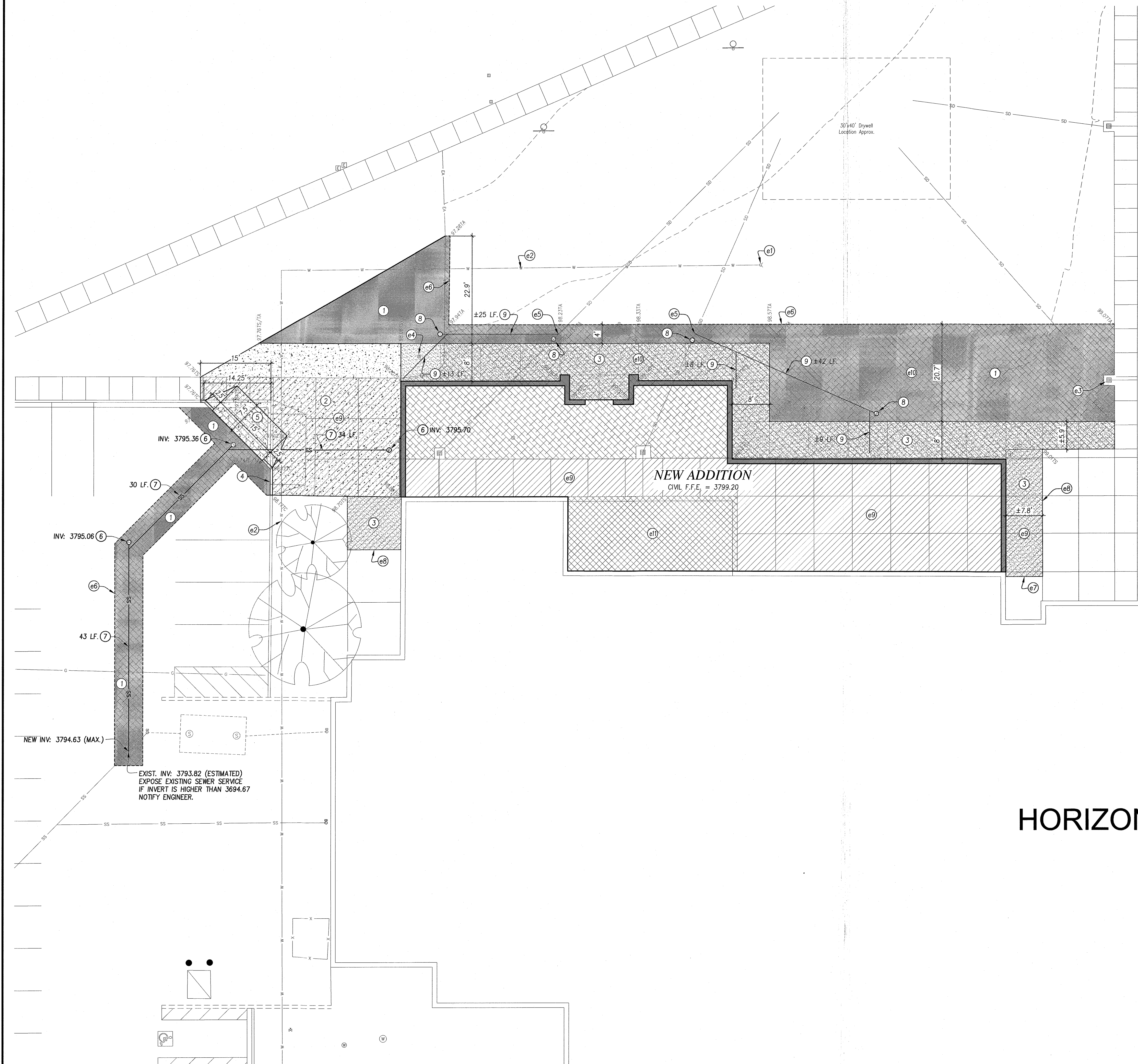
CIVIL COVER SHEET
 for
HORIZON ELEMENTARY
JEROME SCHOOL DISTRICT, JEROME, IDAHO

REVISIONS

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.

STAMP

APPROVED	D. Thibault
DESIGN	M. Lee
DRAWN	M. Lee
DATE	11/22/2021
SCALE	AS SHOWN
DWG. NO.	C 593-21 TOPO
SHEET	C0.01



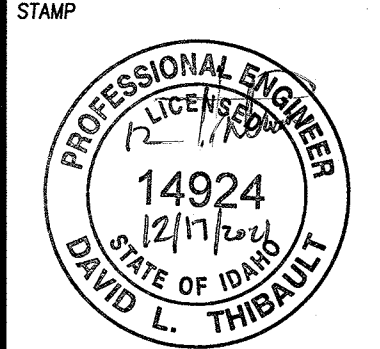
- SITE KEY NOTES:**
- (e1) RETAIN & PROTECT EXISTING FIRE HYDRANT
 - (e2) RETAIN & PROTECT EXISTING WATER LINE
 - (e3) RETAIN & PROTECT EXISTING CATCH BASIN
 - (e4) RELOCATE EXISTING IRRIGATION VALVE BOX & ANY EXISTING IRRIGATION LINES AND CONTROL LINES DISTURBED BY NEW CONSTRUCTION. COORDINATE NEW LOCATION(S) W/ OWNER.
 - (e5) LOCATE & CUT EXISTING STORM DRAIN PIPE. USE INVERT OF EXISTING STORM DRAIN TO ESTABLISH INVERT OF NEW ROOF DRAIN LINE. REMOVE EXISTING STORM DRAIN PIPE AND STRUCTURES BACK TO EXISTING BUILDING LINE.
 - (e6) SAWCUT EXISTING PAVEMENT
 - (e7) SAWCUT EXISTING CONCRETE
 - (e8) BEGIN EXISTING CONCRETE REMOVAL @ EXISTING JOINT
 - (e9) REMOVE EXISTING CONCRETE
 - (e10) REMOVE EXISTING PAVEMENT
 - (e11) EXISTING BUILDING DEMOLITION
 - (1) CONSTRUCT TYPICAL PAVING SECTION PER DET. 1/C5.01
 - (2) CONSTRUCT VEHICULAR CONCRETE SECTION PER DET. 2/C5.01
 - (3) CONSTRUCT CONCRETE SIDEWALK PER DET. 3/C5.01
 - (4) CONSTRUCT VERTICAL CURB (NO GUTTER) PER DET. 4/C5.01
 - (5) CONSTRUCT CONCRETE VEHICLE RAMP
 - (6) INSTALL SANITARY SEWER CLEAN-OUT PER DET. 6/C5.01
 - (7) INSTALL 4" PVC SANITARY SEWER LINE. SLOPE = 1.00% MIN.
 - (8) INSTALL STORM DRAIN CLEAN-OUT PER DET. 6/C5.01
INVERT TO BE DETERMINED AFTER LOCATING & EXPOSING EXISTING STORM DRAIN LINE.
 - (9) INSTALL 4" PVC ROOF DRAIN LINE. SLOPE = 1.00% MIN.

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

SITE, GRADING, & DRAINAGE PLAN
 for
HORIZON ELEMENTARY
JEROME SCHOOL DISTRICT, JEROME, IDAHO

REVISIONS

DO NOT SCALE DRAWINGS
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APPROVED	-
DESIGN	-
DRAWN	-
DATE	11/22/2021
SCALE	AS SHOWN
DWG. NO.	C 593-21 TOPO
SHEET	C1.01

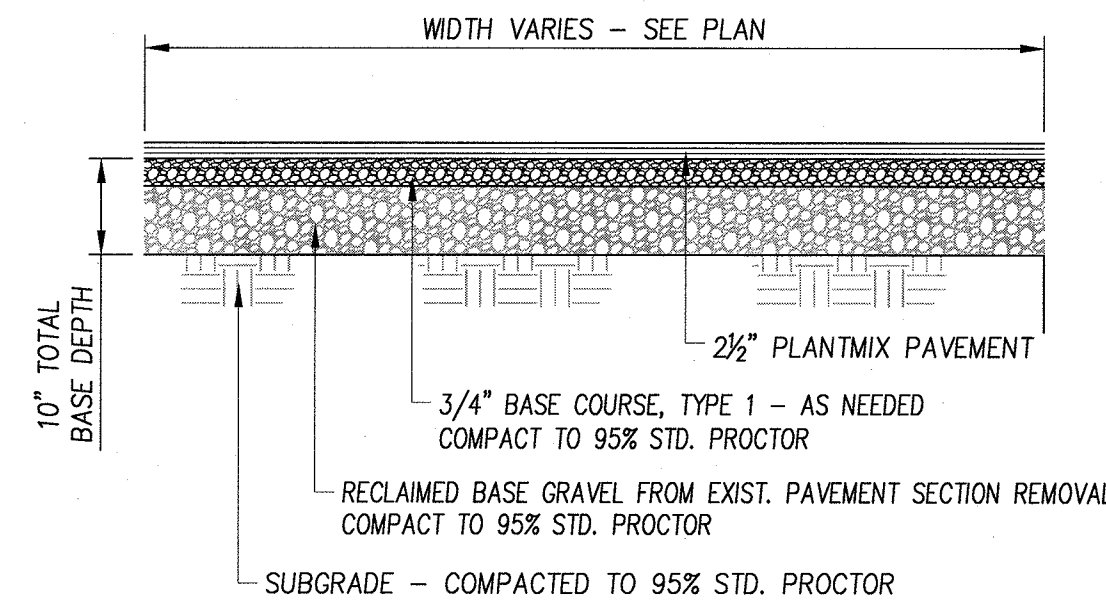
HORIZON ELEMENTARY SCHOOL

BLD2112-00033

REVIEWED FOR CODE COMPLIANCE

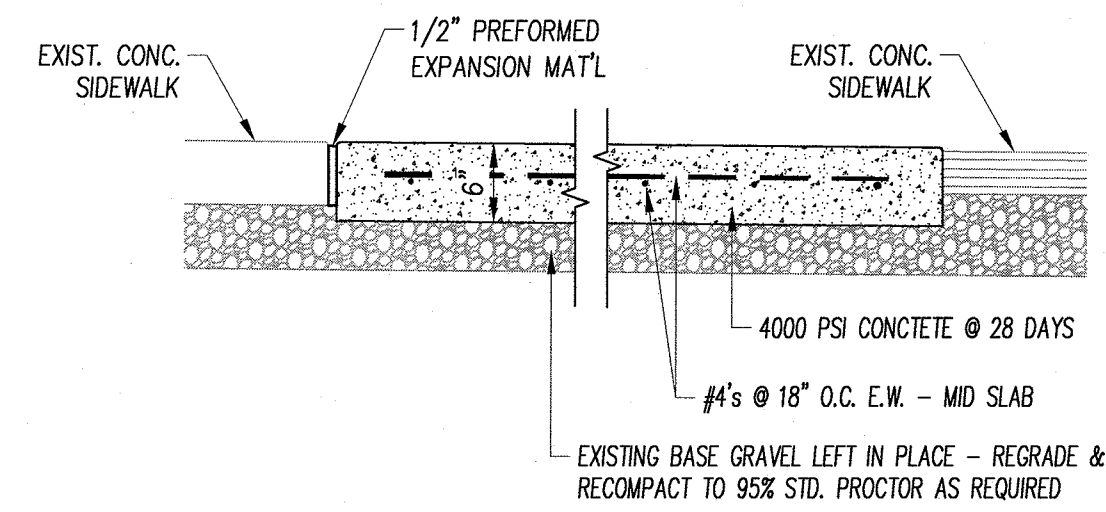
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SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION



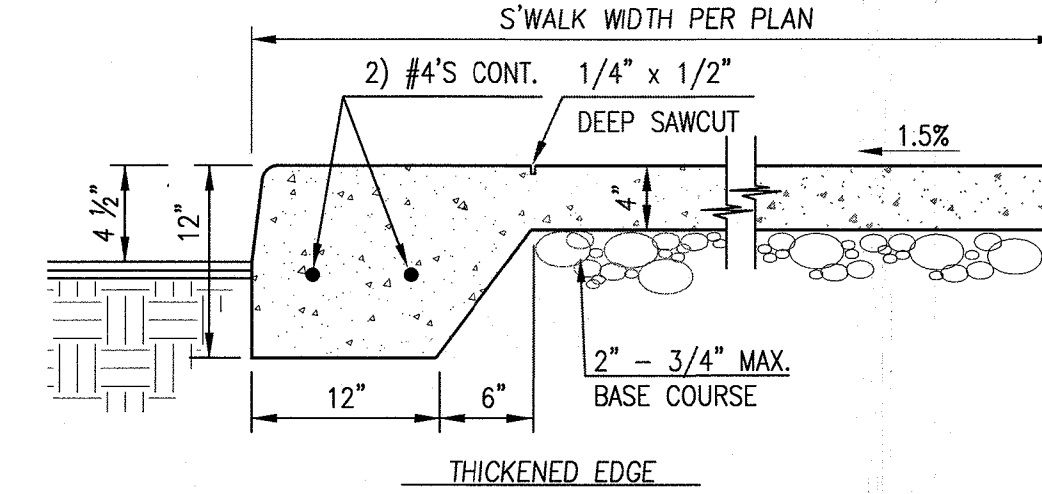
NOTES: SUBGRADE TO BE APPROVED BY THE ENGINEER PRIOR TO AGGREGATE BASE AND ASPHALT PLACEMENT.

1 Typ. Paving Section N.T.S.

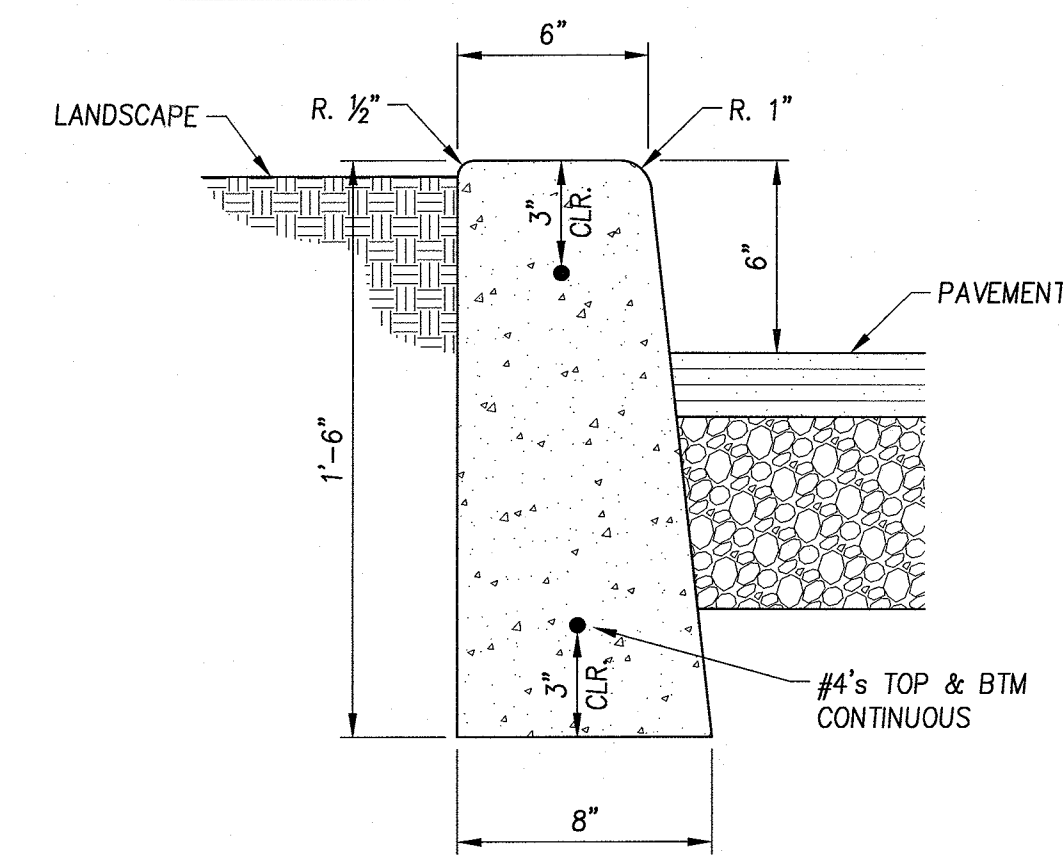


NOTES:
1. 3/16" x 2" DEEP SAWCUT CONTROL JOINTS @ 12' O.C. MAX. LAY AS CLOSE TO SQUARE AS POSSIBLE.
2. ALL PREFORMED EXPANSION MATERIAL SHALL BE BLACK ASPHALT IMPREGNATED FELT MATERIAL AS PER AASHTO M33-78 SPECIFICATIONS

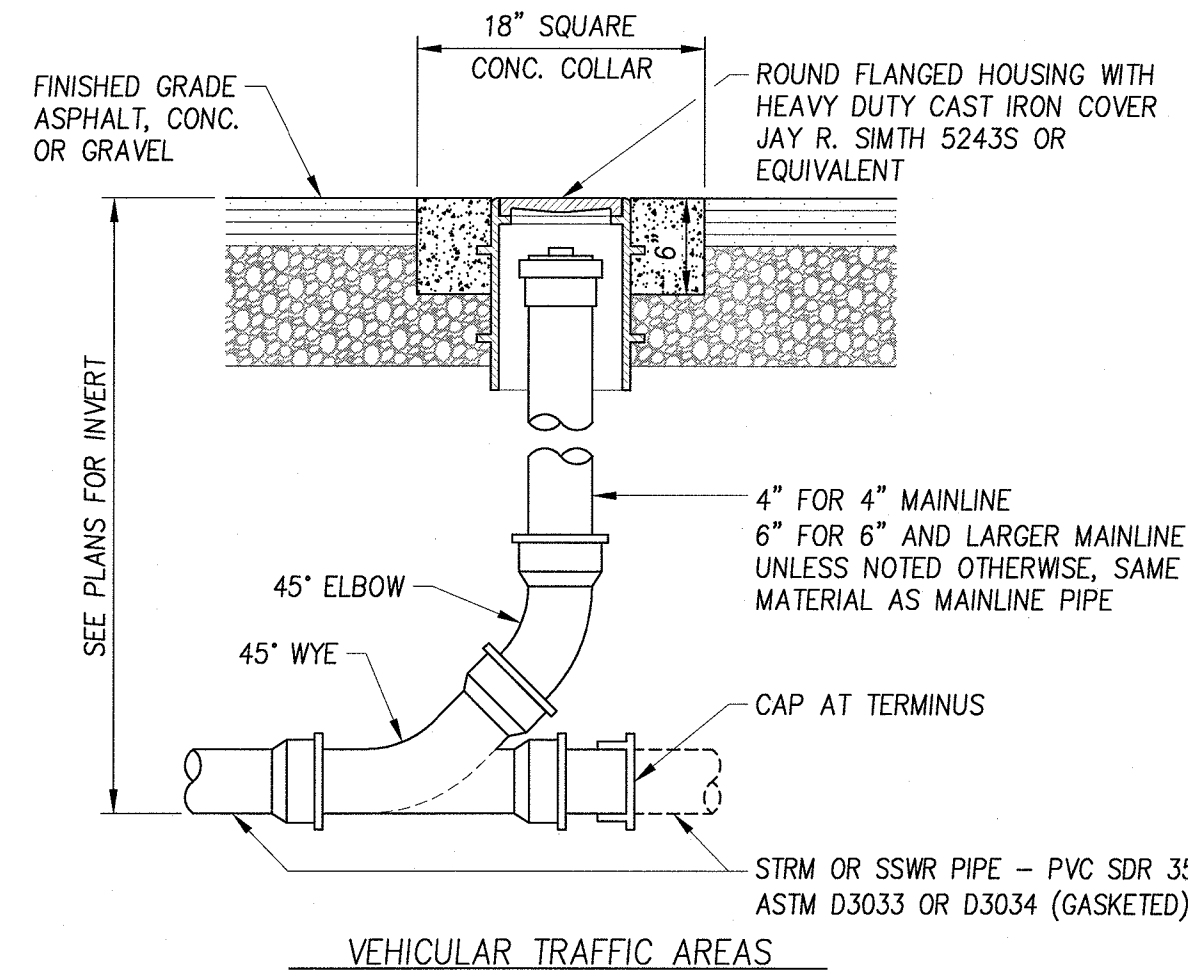
2 Typ. Vehicular Concrete Section AREA: P.36 N.T.S.



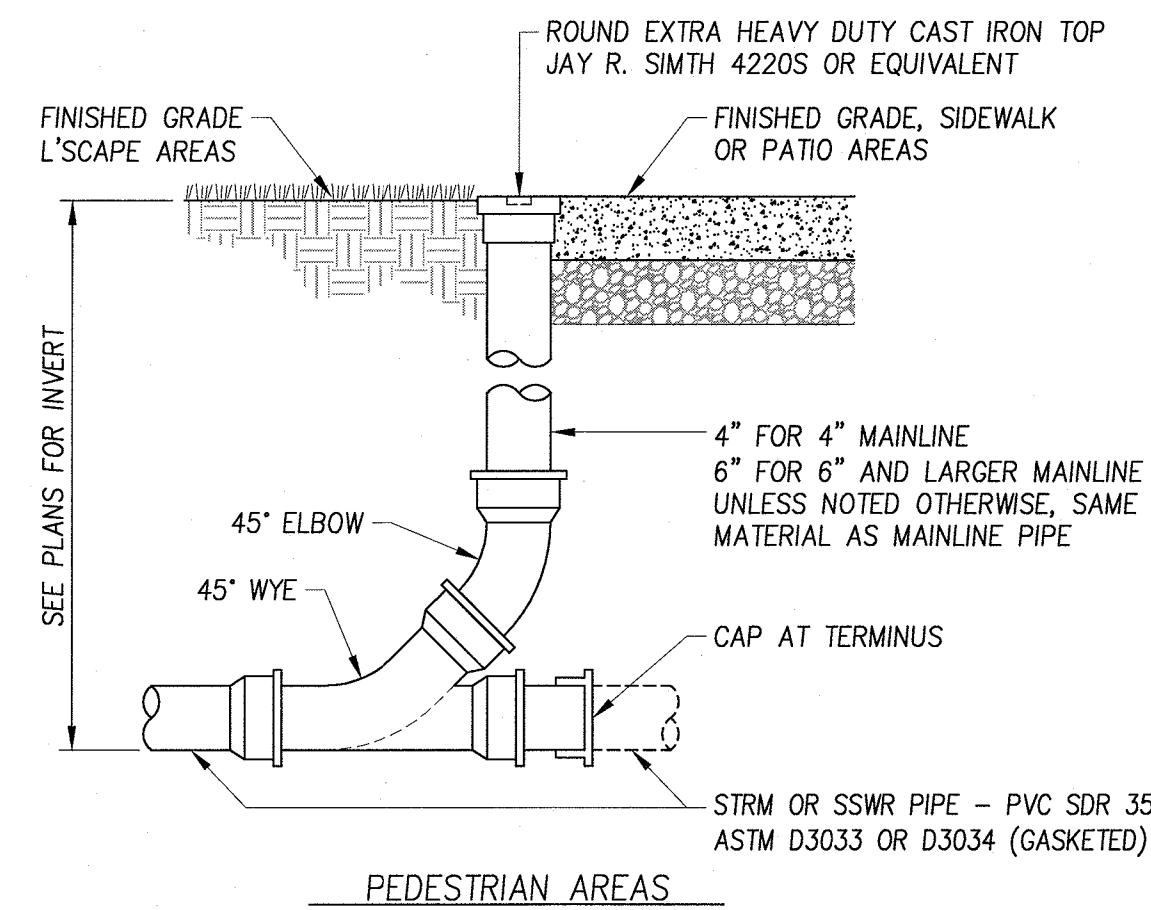
3 CONCRETE SIDEWALK N.T.S.



4 6" VERTICAL CURB (NO GUTTER) N.T.S.



6 CLEANOUT DETAIL N.T.S.

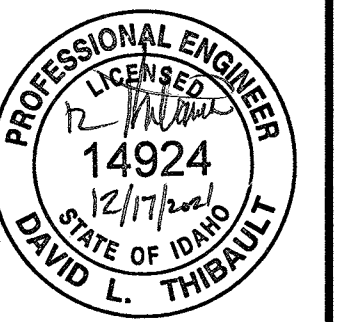


6 CLEANOUT DETAIL N.T.S.

REVISIONS

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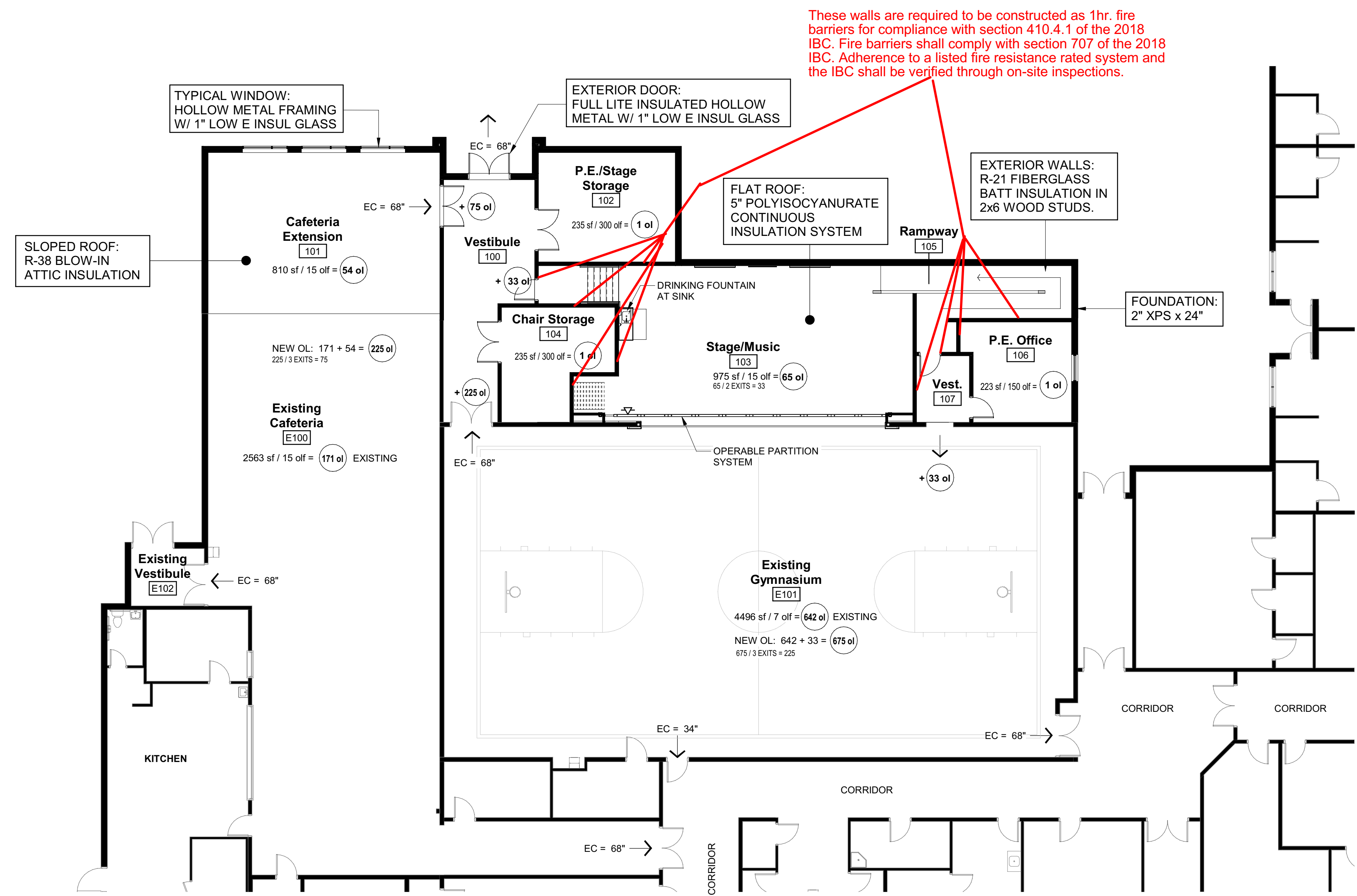
STAMP



APPROVED	D. Thibault
DESIGN	M. Lee
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DWG. NO.	C 593-21 TOPO
SHEET	

C5.01





These walls are required to be constructed as 1hr. fire barriers for compliance with section 410.4.1 of the 2018 IBC. Fire barriers shall comply with section 707 of the 2018 IBC. Adherence to a listed fire resistance rated system and the IBC shall be verified through on-site inspections.

Building Data

BUILDING CODES

- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2017 IDAHO STATE PLUMBING CODE
- 2018 INTERNATIONAL FIRE CODE

OCCUPANCY: E, EDUCATION
CONSTRUCTION TYPE: V-A
FIRE SPRINKLER: YES
BUILDING AREA:
 Allowable Area, IBC Table 506.2: E, V-A, SI = 75,000 sf
 Existing Building Area: 65,595 sf
 New Building Area: 3,125 sf
 Total Building Area: 68,720 sf < 75,000 sf
BUILDING HEIGHT: One Story, 26.5' High max.

EGRESS: * (.15" x ol per IBC 1005.3.2)

Existing Cafeteria E100	171 ol
Cafeteria Extension 101	54 ol
Total Cafeteria	225 ol
Capacity required:	225 x .15 = 34" < provided: 68 x 3 exits = 204"
Existing Gymnasium 1/2 new Stage	642 ol
	33 ol
Total Gymnasium E101	675 ol
Capacity required:	675 x .15 = 102" < provided: 68 x 2 + 34 = 170"
Vestibule 100 combined ol	225 + 33 + 2 + 75 = 335 ol
Capacity required:	335 x .15 = 51" < provided: 68 x 1 exit = 68"

LEGEND:
 sf square feet
 ol occupant load
 off occupant load factor
 ec exit capacity in inches (opening width minus 2" for each door width in open position)

* Egress calculations for this addition are limited to existing exits affected by new construction, which includes consideration of the increased occupant load from the new construction, Cafeteria, and Gymnasium only. Additional occupant load affecting other exits is negligible.

Code Study Floor Plan
 3/32" = 1'-0"
 NORTH

COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Horizon Elementary School Addition - Jerome School District
 Location: Burley, Idaho
 Climate Zone: 5b
 Project Type: Addition
 Vertical Glazing / Wall Area: 7%

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Building Area	Floor Area
1-School/University - Nonresidential	3125

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University]	3348	21.0	0.0	0.062	0.064
Door: Perf. Specs.: Product ID Solar Ban 60, SHGC 0.28, [Bldg. Use 1 - School/University] (b)	46	---	---	0.290	0.770
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Solar Ban 60, SHGC 0.28, [Bldg. Use 1 - School/University] (b)	193	---	---	0.290	0.380
Roof Flat TPO: Insulation Entirely Above Deck, [Bldg. Use 1 - School/University]	2670	---	30.0	0.032	0.032
Roof 2-12 Shingles: Attic Roof, Wood Joists, [Bldg. Use 1 - School/University]	1640	38.0	0.0	0.027	0.027
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - School/University] (c)	200	---	10.0	0.540	0.540

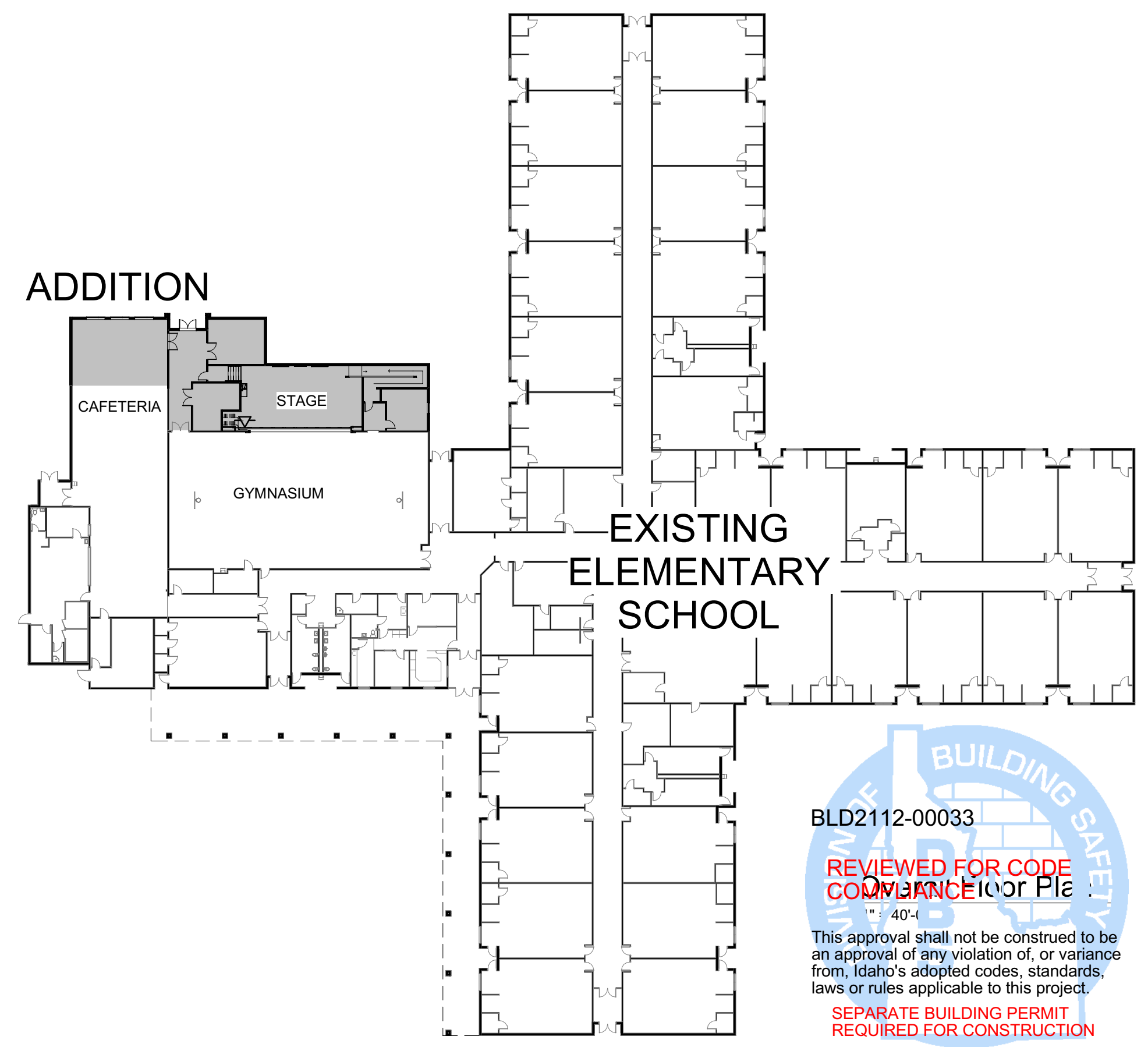
(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
 (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 8% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Greg Bush - Project Manager
 Name - Title _____ Signature _____ Date 12/6/21



BLD2112-00033
REVIEWED FOR CODE COMPLIANCE
 This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

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 Boise, Idaho 83706
 www.lkvarchitects.com
 208.336.3443

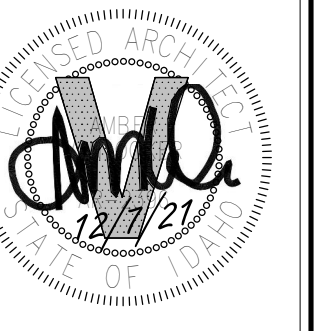
DATE: 12/17/21
 LKV PROJECT #: 2122

DRAWN BY: gpb
 CHECKED BY: Checker

BID SET

DRAWING NO.: **A1.2**
 CODE STUDY & ENVELOPE COMPLIANCE

An Addition to
Horizon Elementary School
 Jerome School District No. 261, Jerome, Idaho



General Notes

- NOTE: NOT ALL EXISTING SITE UTILITIES OR OTHER UNDERGROUND FEATURES ARE INDICATED ON THIS ARCHITECTURAL PARTIAL SITE PLAN. SEE CIVIL DRAWINGS FOR COMPLETE SITEWORK REQUIREMENTS INCLUDING BUT NOT LIMITED TO SITE GRADING & DRAINAGE, UTILITY PLANS, AND SITE DETAILS.
- VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS PRIOR TO DEMOLITION WORK.

Reference Notes

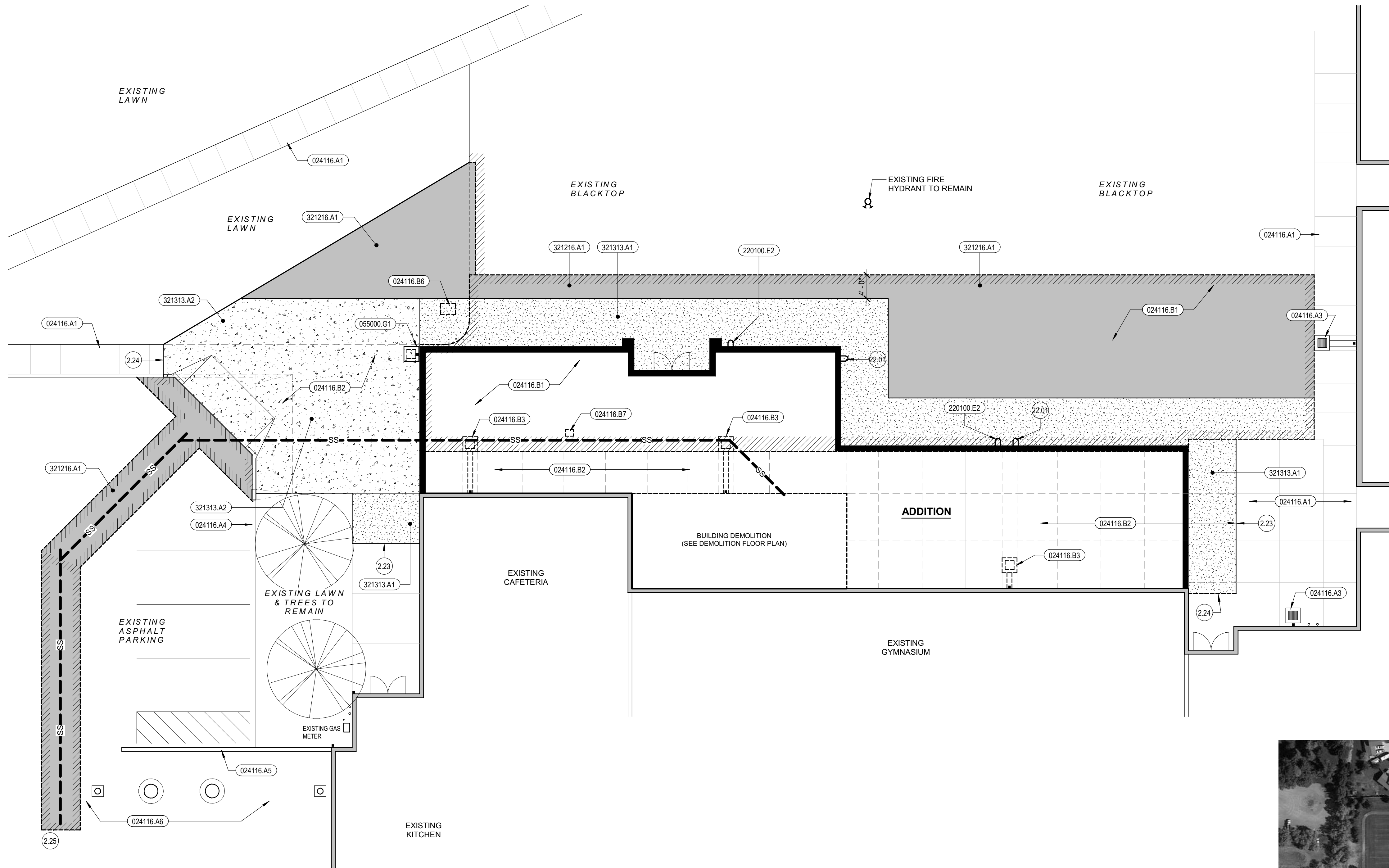
- 2.23 REMOVE CONCRETE TO EXISTING CONTROL JOINT
- 2.24 SAWCUT EXISTING CONCRETE FOR REMOVAL.
- 2.25 CONNECT NEW SANITARY SEWER TO EXISTING IN THIS AREA. SEE CIVIL.
- 22.01 ROOF DRAIN CONNECTION. SEE CIVIL.

Keyed Notes

- 024116.A1 EXISTING CONCRETE FLATWORK TO REMAIN.
- 024116.A3 EXISTING CATCH BASIN TO REMAIN.
- 024116.A4 EXISTING CONCRETE CURB TO REMAIN.
- 024116.A5 EXISTING MASONRY SCREEN WALL TO REMAIN.
- 024116.A6 EXISTING EXISTING MANHOLES AND CLEAN-OUTS FOR EXISTING GREASE TRAP SYSTEM.
- 024116.B1 REMOVE EXISTING ASPHALT BLACKTOP FOR NEW CONSTRUCTION.
- 024116.B2 REMOVE EXISTING CONCRETE FLATWORK FOR NEW CONSTRUCTION.
- 024116.B3 REMOVE EXISTING CATCH BASIN & TRENCH. SEE CIVIL.
- 024116.B6 RELOCATE EXISTING IRRIGATION CONTROL BOX AND UNDERGROUND CONDUITS PER OWNER.
- 024116.B7 REMOVE EXISTING ABANDONED IRRIGATION CONTROL BOX AND ANY ABANDONED CONDUITS. COORDINATE WITH OWNER.
- 055000.G1 STEEL TUBE DOWNSPOUT. 4"x4"x1/8" STEEL TUBE. BEVEL CUT OUTLET AS INDICATED. PRIME & PAINT.
- 220100.E2 OVERFLOW DRAIN NOZZLE. SEE PLUMBING.
- 321216.A1 ASPHALT PAVING
- 321313.A1 NEW CONCRETE SIDEWALK. 4" SLAB-ON-GRADE. SEE CIVIL
- 321313.A2 NEW CONCRETE VEHICULAR PAVING. 6" SLAB-ON-GRADE. SEE CIVIL

Legend

- EXTENTS OF EXISTING ASPHALT REMOVAL
- NEW ASPHALT PAVING.
- NEW CONCRETE FLATWORK. NOTE: SEE CIVIL SITE PLANS FOR CONTROL JOINT LAYOUT
- NEW SANITARY SEWER LOCATION. SEE CIVIL UTILITY PLANS & MECHANICAL PLUMBING PLANS FOR REQUIREMENTS.



1 Architectural Partial Site Plan (with site demolition)
1" = 10'-0"



Overall Reference Site Plan
NTS

BLD2112-00033
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CHECKED BY: Checker

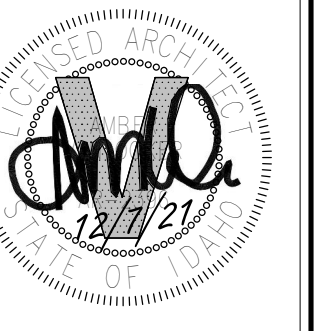
BID SET

DRAWING NO.:

A2.0
ARCHITECTURAL PARTIAL
SITE PLAN



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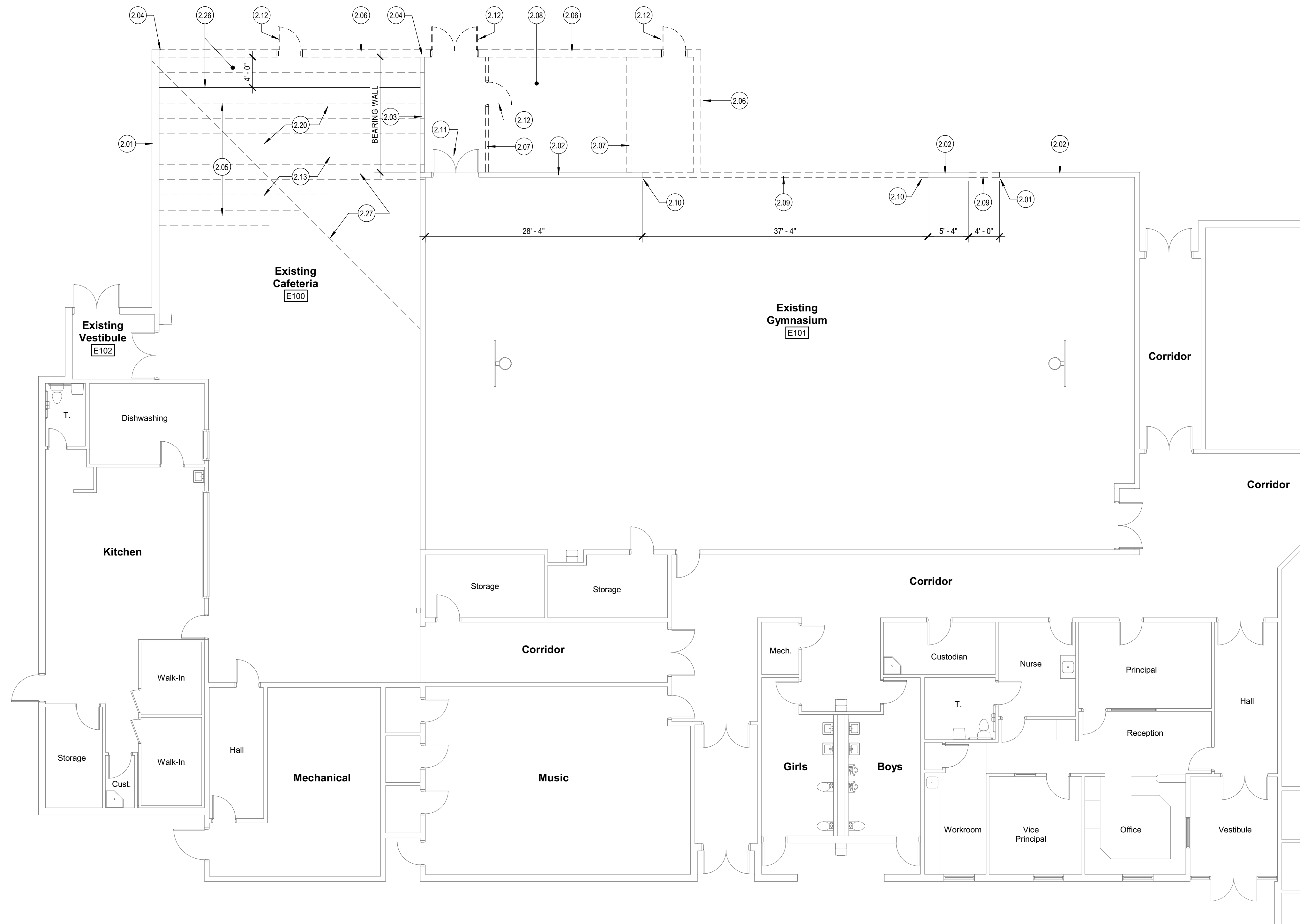


General Notes

1. VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION.
2. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

Reference Notes

- 2.01 EXISTING 2X6" STUD / BRICK VENEER WALL TO REMAIN.
- 2.02 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
- 2.03 EXISTING 2X6 BEARING STUD WALL TO REMAIN.
- 2.04 SAWCUT EXISTING FOOTING AND RETAIN AT BEARING WALL TO REMAIN.
- 2.05 EXISTING TJI ROOF STRUCTURE TO REMAIN INCLUDING SHEATHING. REMOVE SHINGLES AT NEW OVERBUILD AREA ONLY. COORDINATE EXTENTS OF SHINGLE REMOVAL WITH EXTENTS OF NEW OVERBUILD.
- 2.06 EXISTING 2X6" STUD / BRICK VENEER WALL TO BE REMOVED.
- 2.07 EXISTING INTERIOR PARTITION TO BE REMOVED.
- 2.08 REMOVE EXISTING BUILDING PORTION COMPLETE INCLUDING ROOF STRUCTURE, LEDGERS, REGLETS, FLOOR SLAB AND FOUNDATIONS/FTGS.
- 2.09 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO BE REMOVED FOR NEW WALL OPENING. SEE STRUCTURAL.
- 2.10 COORDINATE NEW OPENING TO OCCUR AT NEAREST HEAD JOINTS.
- 2.11 EXISTING DOOR & FRAME TO REMAIN.
- 2.12 REMOVE EXISTING DOOR & FRAME.
- 2.13 EXISTING FLOORING TO REMAIN.
- 2.20 EXISTING CONCRETE FLOOR SLAB TO REMAIN. PORTION OF FLOOR
- 2.26 SAWCUT EXISTING CONC. FLOOR AND REMOVE PORTION OF FLOOR
- 2.27 REMOVE EXISTING SHINGLES TO EXTENTS ONLY AS REQUIRED FOR INSTALLATION OF NEW ROOF AND NEW ROOF FRAMING. COORDINATE WITH THE REQUIREMENTS OF THE ROOF FRAMING PLAN.



Demolition Floor Plan
1/8" = 1'-0"

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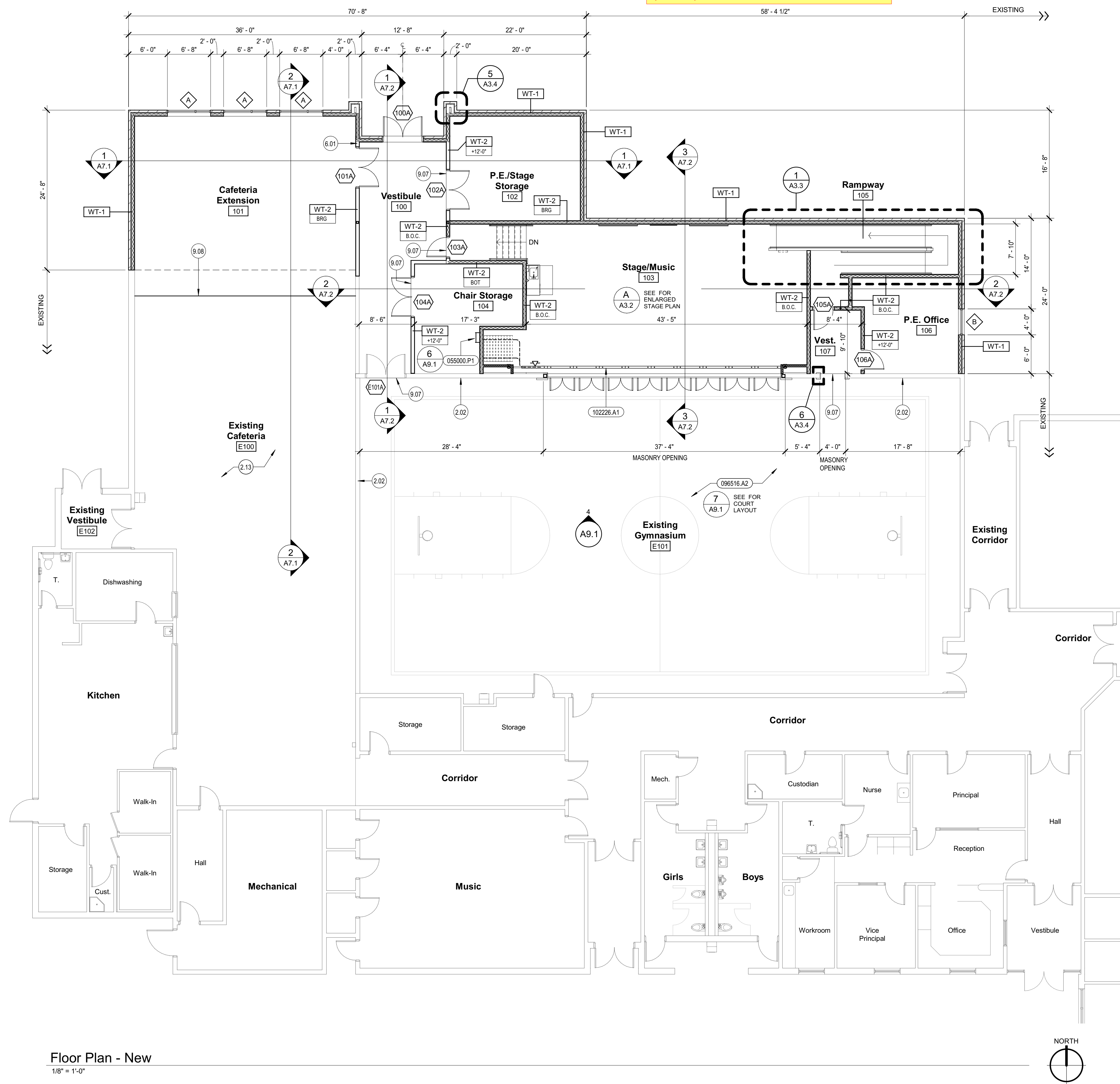
DRAWING NO.:

A3.0

DEMOLITION FLOOR PLAN



1910.157(d)(2)
 The employer shall distribute portable fire extinguishers for use by employees on Class A fires so that the travel distance for employees to any extinguisher is 75 feet (22.9 m) or less.



Floor Plan - New
 1/8" = 1'-0"

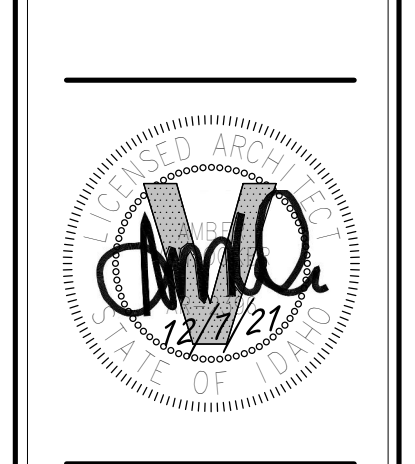


- ### General Notes
- EXTERIOR WALL DIMENSIONS ARE TO OUTSIDE OF FACE OF FOUNDATION WALL UNLESS OTHERWISE NOTED.
 - INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE INDICATED AS CENTERLINE, THUS
 - PROVIDE FIRE BLOCKING IN ALL NON-INSULATED PARTITIONS.
 - SEE SHEET A1.1 FOR BUILDING CODE AND ENERGY COMPLIANCE SUMMARY.
 - SEE SHEET A4.1 FOR DOOR SCHEDULE AND DOOR AND WINDOW FRAME TYPES AND DETAILS.
 - PROVIDE SOLID BLOCKING IN STUD WALLS FOR SECURE MOUNTING OF ALL WALL MOUNTED ITEMS. COORDINATE WITH INTERIOR ELEVATIONS.

- ### Reference Notes
- EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
 - EXISTING FLOORING TO REMAIN.
 - ALIGN INTERIOR 2X6 CORRIDOR WALL TO EXTERIOR 2X6 WALL TYPICAL FLOOR MATERIAL TRANSITION.
 - JOIN NEW FLOOR TILE TO FULL (UNCUT) EXISTING TILES.

- ### Keyed Notes
- 055000.P1 STEEL ROOF LADDER
 - 096516.A2 RUBBER ATHLETIC FLOORING
 - 102226.A1 OPERABLE PARTITION SYSTEM PANELS

- ### Floor Plan Legend
- WT-X WALL TYPE. SEE SHT. A3.4
 - xxx TOP OF WALL CONDITION
 - KEY:
 - +12'-0" HEIGHT ABOVE FINISH FLOOR
 - BRG BEARING WALL
 - B.O.C. BOTTOM OF DOUBLE GYP. BD CEILING
 - INSULATED WALL



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DRAWING NO.:

A3.1
 FLOOR PLAN



Room Finish Schedule

Room No.	Room Name	Floor		South		West		North		East		Ceiling		Height	Remarks
		Mat.	Base	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish	Mat.	Finish		
100	Vestibule	VCT	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	11'-0"	
101	Cafeteria Extension	VCT	RB	-	-	GB	PT	GB	PT	GB	PT	SAP	FF	10'-0"	
102	P.E./Stage Storage	SC	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	10'-0"	
103	Stage/Music	CPT / VCT	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	13'-0"	1, 2
104	Chair Storage	SC	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	10'-0"	
105	Rampway	CPT	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	11'-0"	
106	P.E. Office	CPT	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	9'-0"	
107	Vest.	CPT	RB	GB	PT	GB	PT	GB	PT	GB	PT	SAP	FF	9'-0"	
E101	Existing Gymnasium	RAF	RB	EX-R	EX-R	EX-R	EX-R	EX-R	EX-R	EX-R	EX-R	EX-R	EX-R		

Room Finish Legend

- MISC**
EX-R EXISTING TO REMAIN
- FLOOR**
CPT CARPET
SC SEALED CONCRETE
VCT VINYL COMPOSITE TILE
RAF RUBBER ATHLETIC FLOORING
- BASE**
RB 4" RUBBER BASE
- WALL**
GB GYPSUM BOARD
PT PAINT
- CEILING**
SAP SUSPENDED ACOUSTIC PANELS
FF FACTORY FINISH

Finish Schedule Remarks

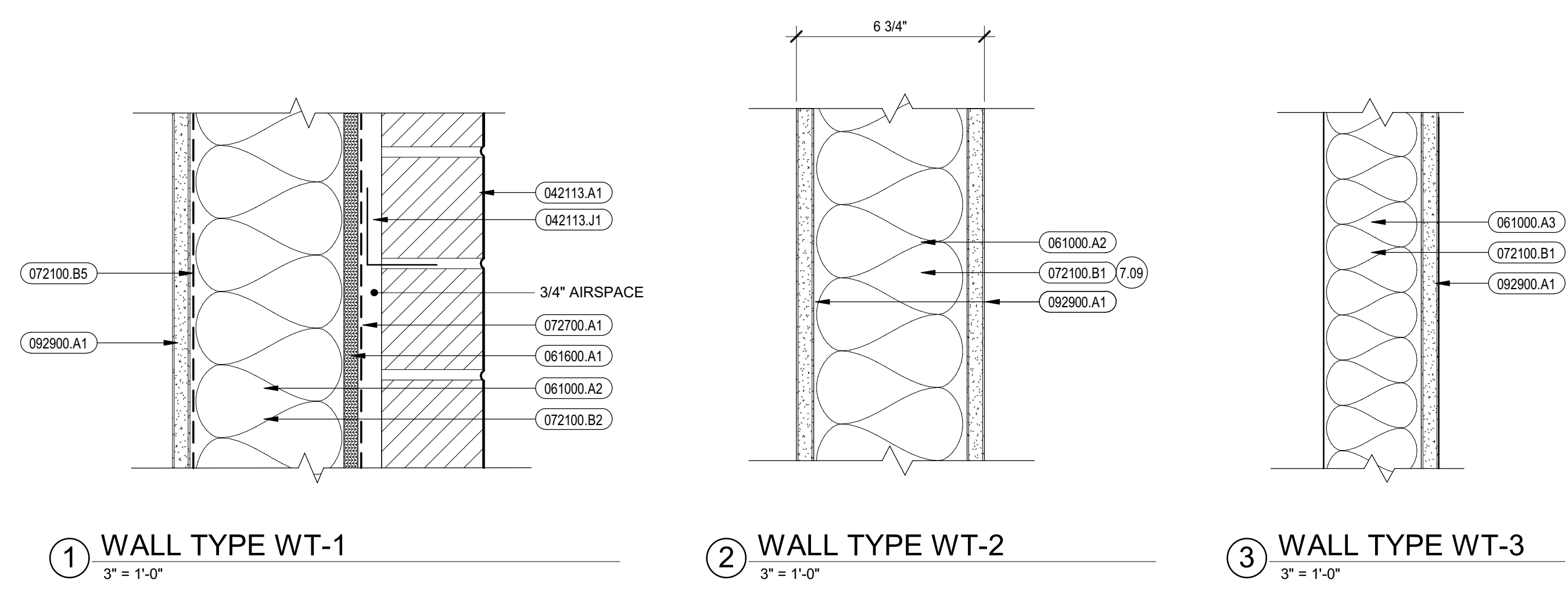
- RUBBER STAIR TREADS & RISERS AT STAIRS.
- CARPET TILE AT STAIR LANDING.

Reference Notes

- EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
- LAMINATE TO WRAP JAMBS.
- (2) TAPCONS @ MAX. 32" O.C.
- INSULATION WHERE OCCURS, SEE FLOOR PLAN.

Keyed Notes

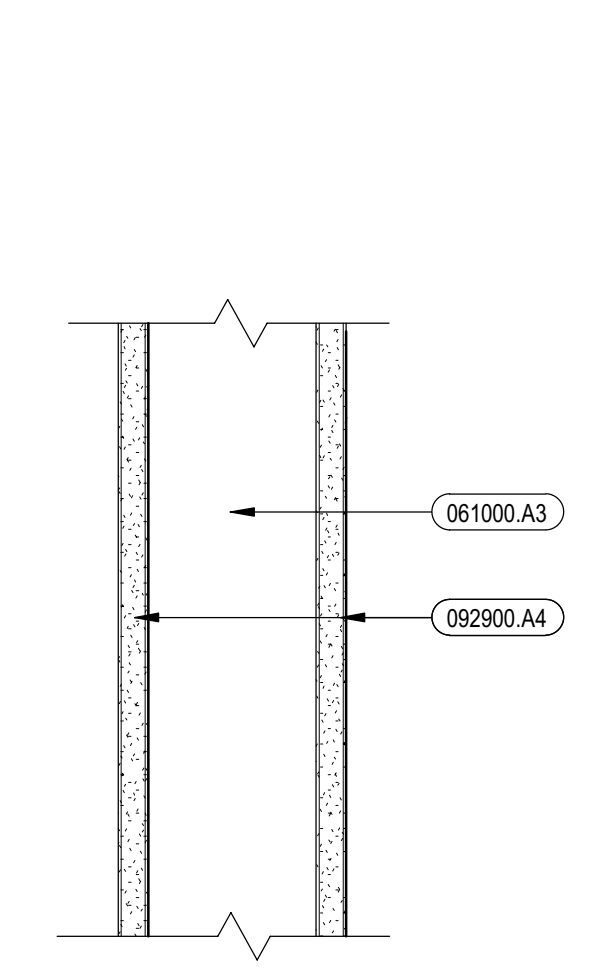
- 042113.A1 CLAY FACE (VENEER) BRICK, 4X4X16
- 042113.J1 VENEER TIE(S). SEE STRUCTURAL.
- 051200.E1 STEEL ANGLE. SEE STRUCTURAL.
- 061000.A2 WOOD STUD(S) 2X6 @ 16" O.C., U.N.O.
- 061000.A3 WOOD STUD(S) 2X4 @ 16" O.C., U.N.O.
- 061000.A11 2X6 FRAMING
- 061600.A1 WALL SHEATHING. SEE STRUCTURAL.
- 064116.B1 3/4" PLYWOOD, EXTERIOR GRADE
- 064116.D1 H.P. DECORATIVE LAMINATE - EXPOSED EXTERIOR SURFACES
- 072100.B1 BATT INSULATION, GLASS FIBER, 3-1/2" UNFACED.
- 072100.B2 BATT INSULATION, GLASS FIBER, 5-1/2" UNFACED.
- 072100.B5 VAPOR BARRIER
- 072700.A1 BUILDING WRAP
- 092900.A1 SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
- 092900.A4 SINGLE LAYER ABUSE-RESISTANT GYPSUM BOARD, 5/8"



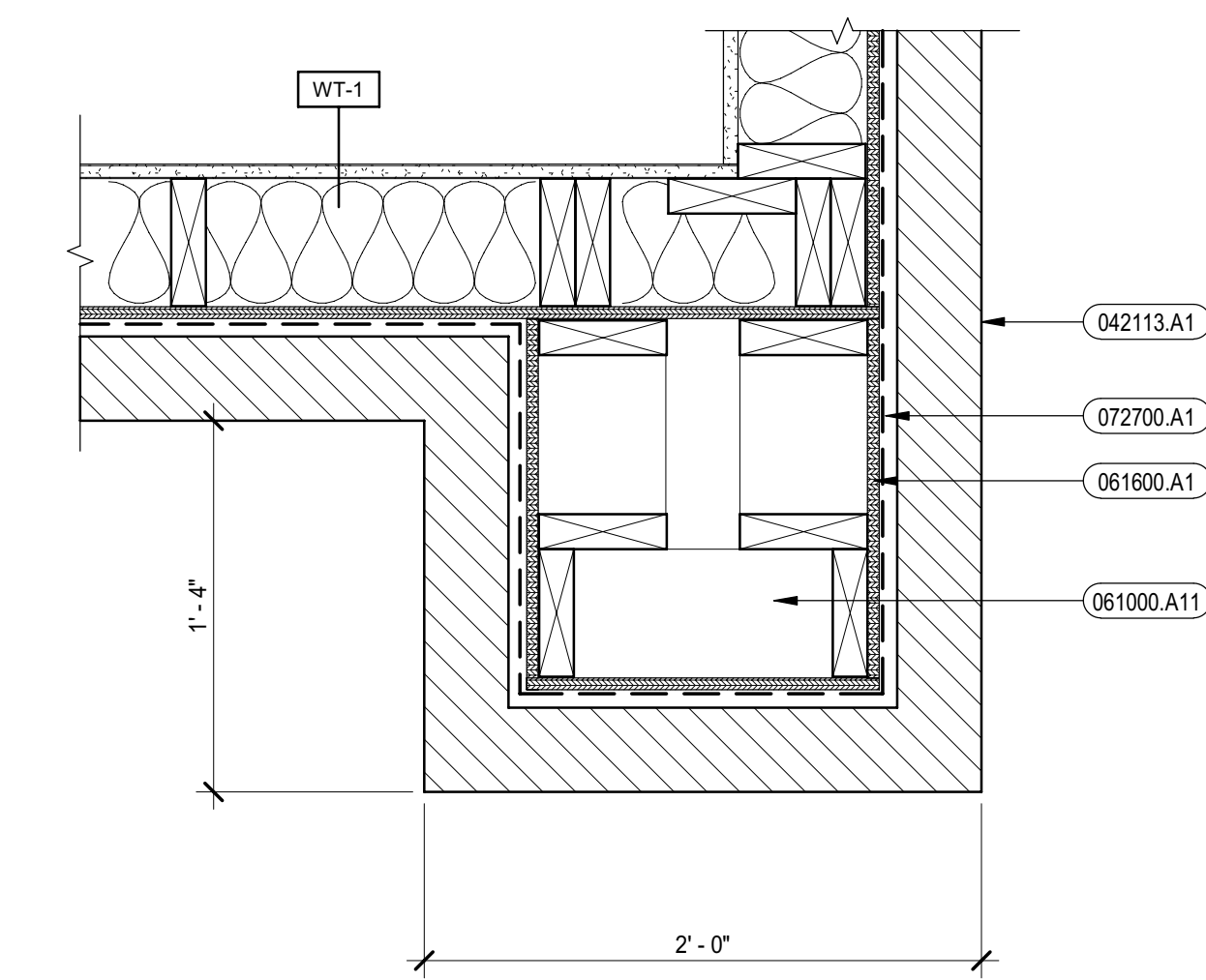
① WALL TYPE WT-1
3" = 1'-0"

② WALL TYPE WT-2
3" = 1'-0"

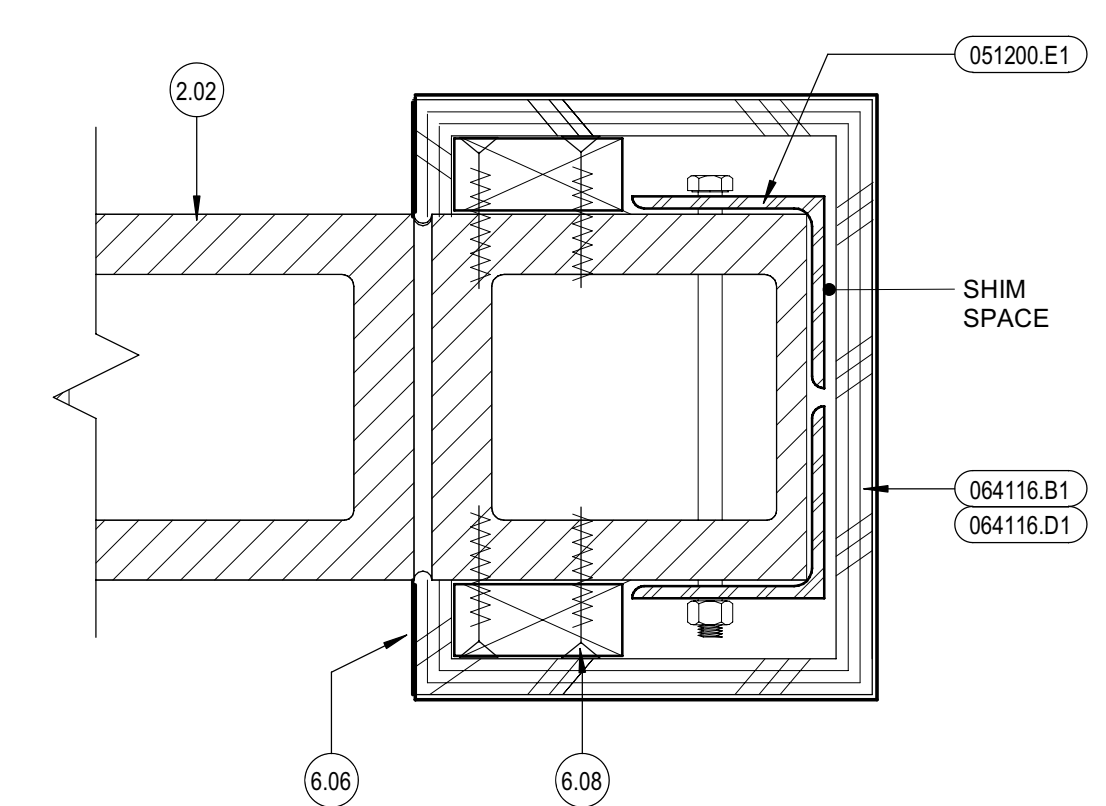
③ WALL TYPE WT-3
3" = 1'-0"



④ WALL TYPE WT-4
3" = 1'-0"



⑤ PILASTER @ CANOPY
1 1/2" = 1'-0"



⑥ New Opening in Gym Wal
3" = 1'-0"



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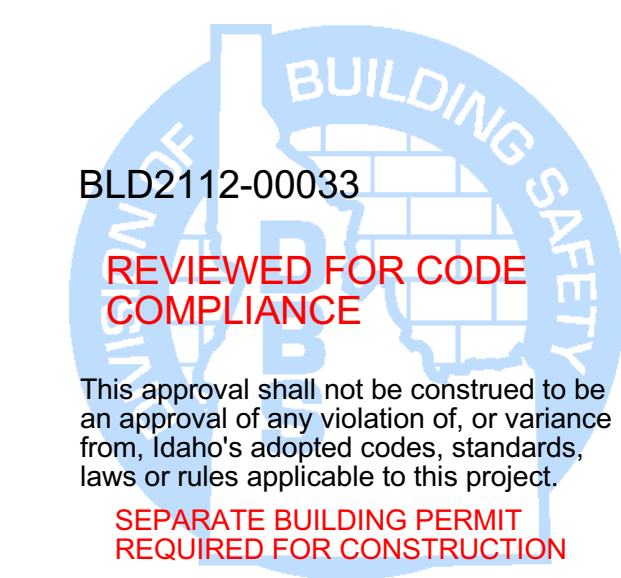
DATE: 12/17/21
LKV PROJECT #: 2122

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CHECKED BY: Checker

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DRAWING NO.:

A3.4
ROOM FINISH SCHEDULE,
WALL TYPES



#	Revisions	Description	Date

Door Schedule Abbreviations

WD	FLUSH WOOD
PNT	PAINT
STL	STEEL
SV	STAIN & VARNISH - FACTORY
PL	PLASTIC LAMINATE

Door Schedule Remarks

1. PREPARE DOOR / FRAME FOR CARD ACCESS CONTROL INSTALLATION. REFER TO DOOR HARDWARE SPECIFICATION 087100 AND ELECTRICAL DRAWINGS FOR REQUIRED DOOR HARDWARE SYSTEM.
2. ADA ACCESS HARDWARE. REFER TO DOOR HARDWARE SPECIFICATION 087100 AND ELECTRICAL DRAWINGS.

Glass Types

G1	1" TINTED INSULATING GLASS, TEMPERED.
G2	1/4" FLOAT, TEMPERED.

Reference Notes

- 7.02 COUNTERFLASH HEAD FLASHING WITH SA FLEXIBLE FLASHING AND NAIL TOP EDGE WITH ROOFING NAILS AT 6" O.C.
- 7.03 EXTEND HEAD FLASHING MIN. 6" BEYOND OPENING EACH END.
- 8.01 VISION LITE OPPOSITE LATCH HARDWARE.

Keyed Notes

- 033000.C1 CONCRETE FLOOR SLAB-ON-GRADE, 4". SEE STRUCTURAL
- 042113.A1 CLAY FACE (VENEER) BRICK, 4X4X16
- 042113.A2 CLAY FACE (VENEER) BRICK, SOLDIER COURSE
- 051200.A1 STEEL LOOSE LINTEL. SEE STRUCTURAL
- 061000.A15 DIMENSION LUMBER BEAM / HEADER / LEDGER
- 064116.C1 3/4" PARTICLE BOARD
- 064116.D2 H.P. DECORATIVE LAMINATE - TOP, BACKSPLASH AND SELF EDGES
- 072700.A1 BUILDING WRAP
- 072700.B1 FLEXIBLE SA FLASHING
- 076200.A2 18 GA. HEAD FLASHING W/ HEMMED DRIP
- 079200.B1 FOAM BACKER ROD & ONE PART URETHANE SEALANT.
- 079200.C1 LATEX JOINT SEALANT
- 081113.A1 HOLLOW METAL DOOR
- 081113.B1 HOLLOW METAL DOOR FRAME
- 081113.C1 HOLLOW METAL GLAZING FRAME
- 081113.C2 GLAZING STOP
- 084113.A1 ALUMINUM STOREFRONT ENTRANCE FRAMING
- 087100.B1 ALUMINUM THRESHOLD
- 092900.A1 SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.

BLD2112-00033

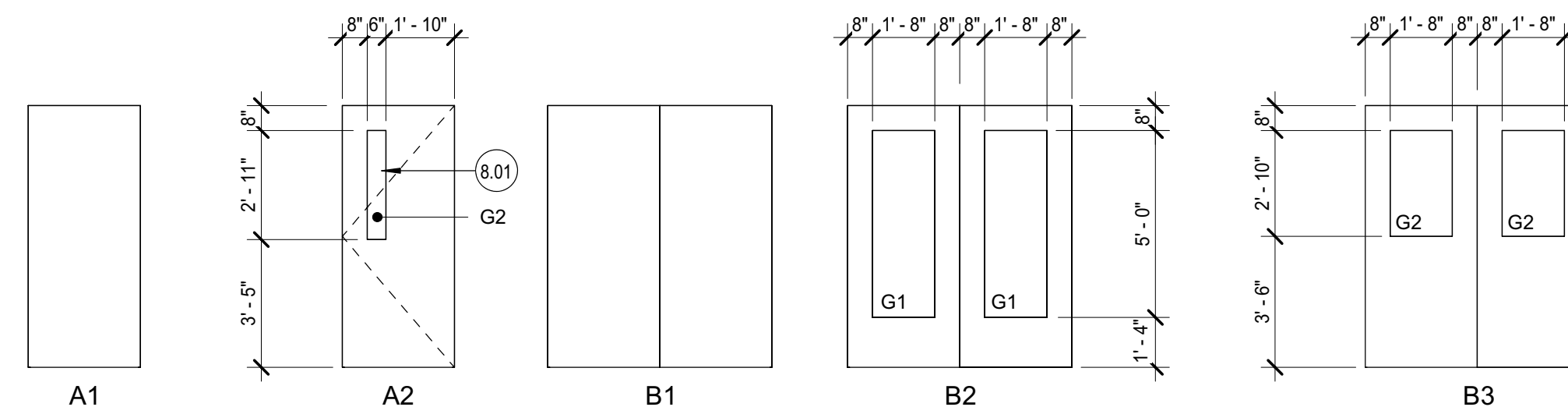
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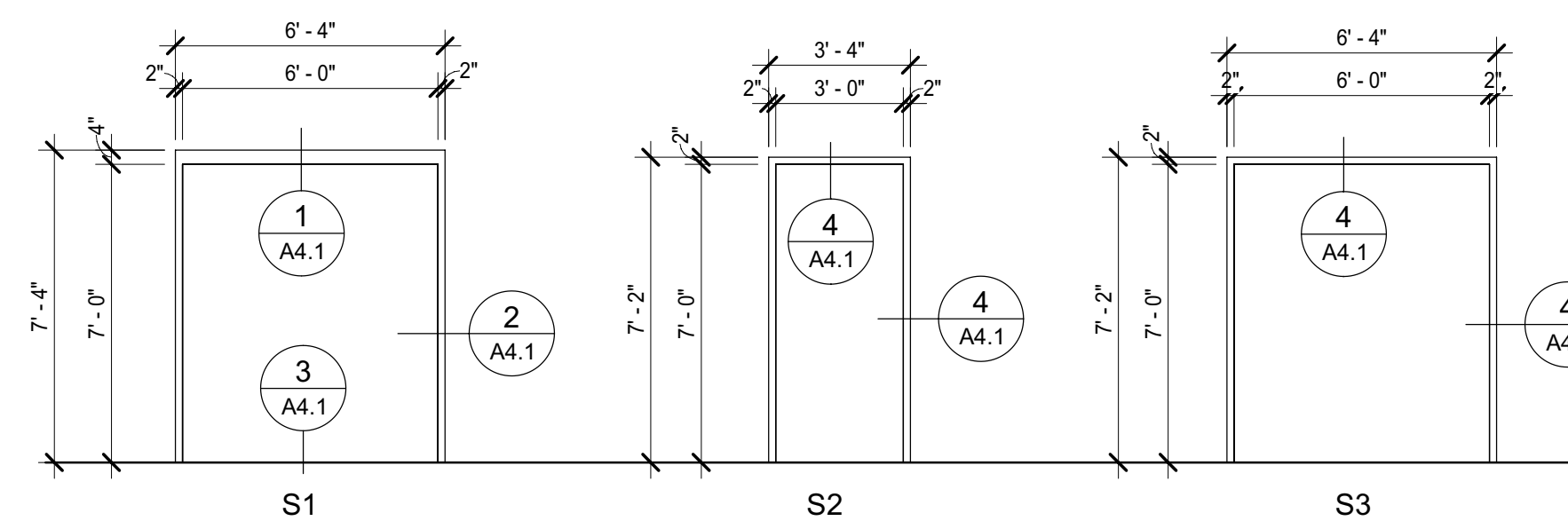
Door Schedule

Mark	Door						Frame			Hardware Set	Fire Rating	Remarks
	Width	Height	Type	Mat.	Finish	Type	Mat.	Finish				
100A	6'-0"	7'-0"	B2	STL	PNT	S1	STL	PNT	1.0		1, 2	
101A	6'-0"	7'-0"	B3	STL	PNT	S3	STL	PNT	2.0			
102A	6'-0"	7'-0"	B1	STL	PNT	S3	STL	PNT	4.0			
103A	3'-0"	7'-0"	A1	STL	PNT	S2	STL	PNT	6.0			
104A	6'-0"	7'-0"	B1	STL	PNT	S3	STL	PNT	4.0			
105A	3'-0"	7'-0"	A1	STL	PNT	S2	STL	PNT	6.0			
106A	3'-0"	7'-0"	A2	STL	PNT	S2	STL	PNT	5.0			
E101A	6'-0"	7'-0"	EXISTING TO REMAIN									
US	3'-10"	2'-5"	A1	WD	SV		WD	PL	3.0			



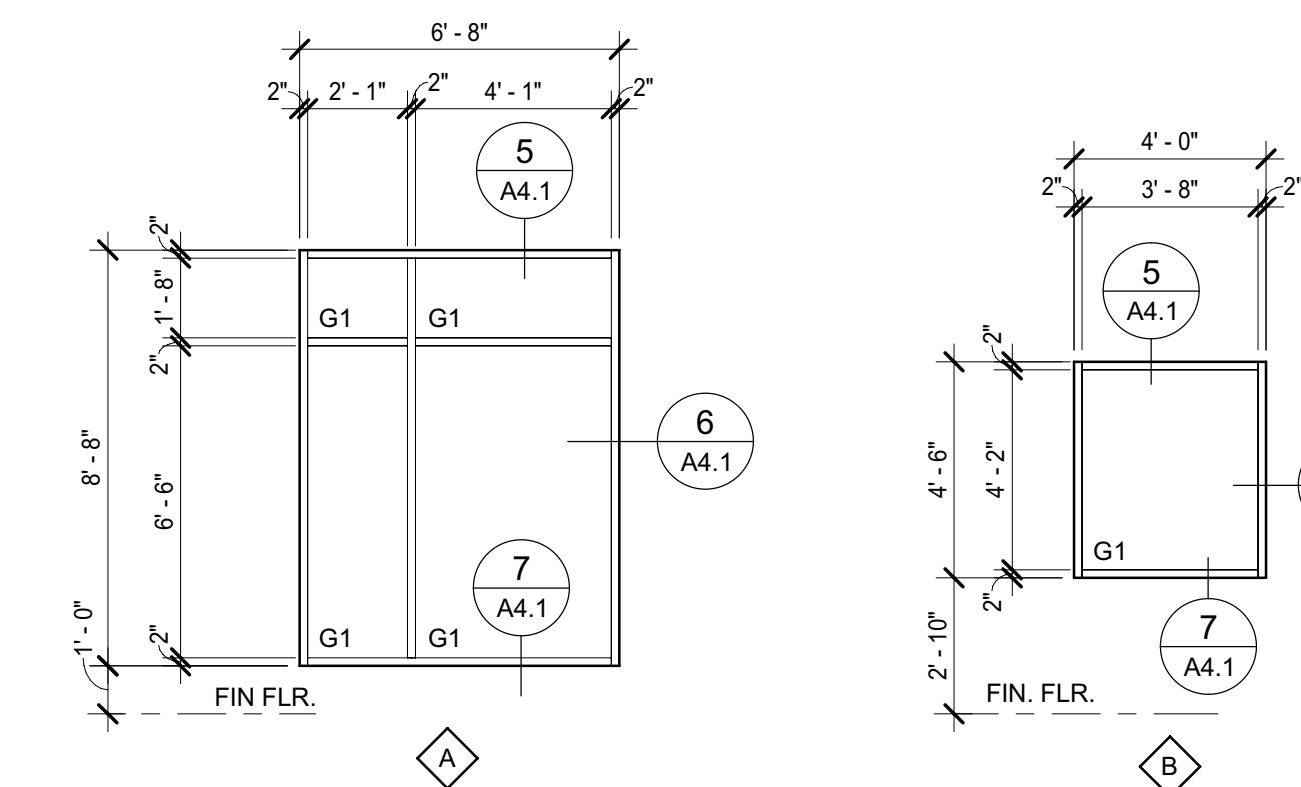
Door Types

1/4" = 1'-0"



Frame Types

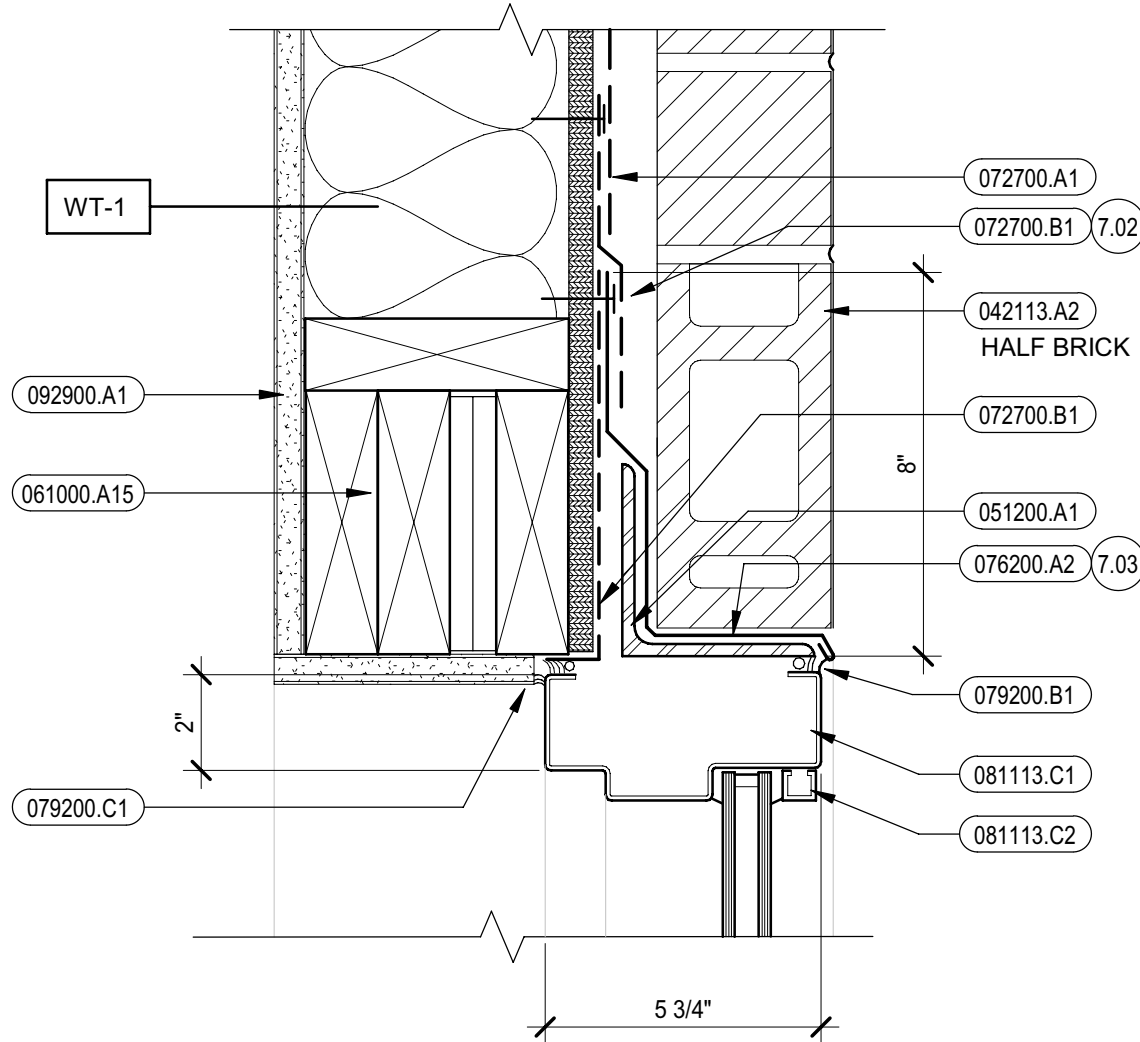
1/4" = 1'-0"



Window Types

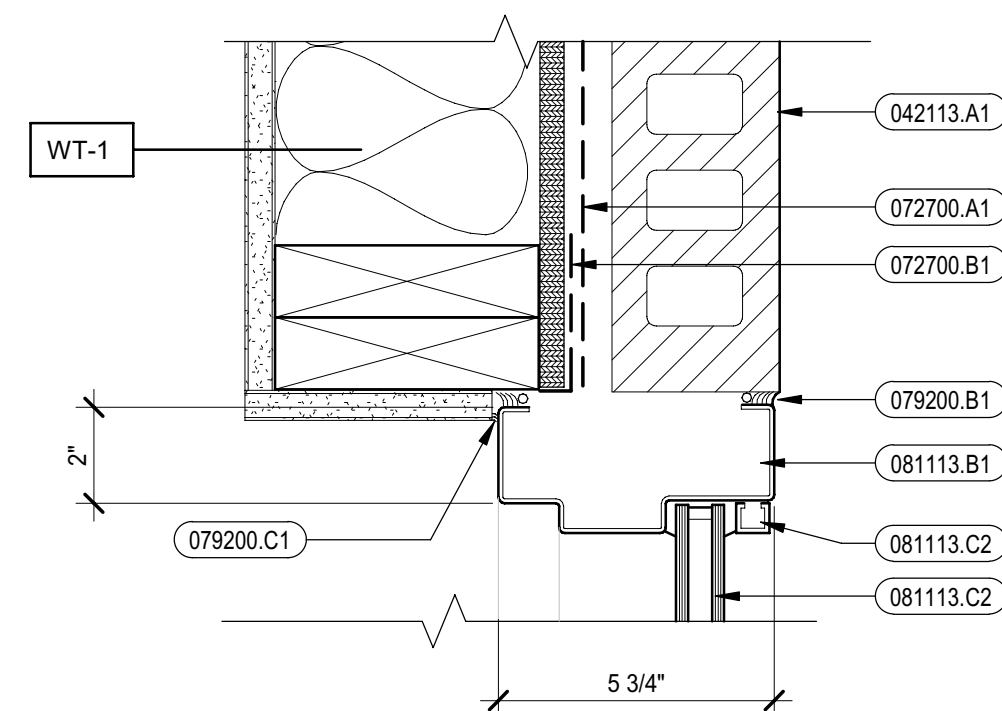
1/4" = 1'-0"

These doors shall meet the fire rating requirements of section 716 of the 2018 IBC. See the plan review notes on the code plan for more information.



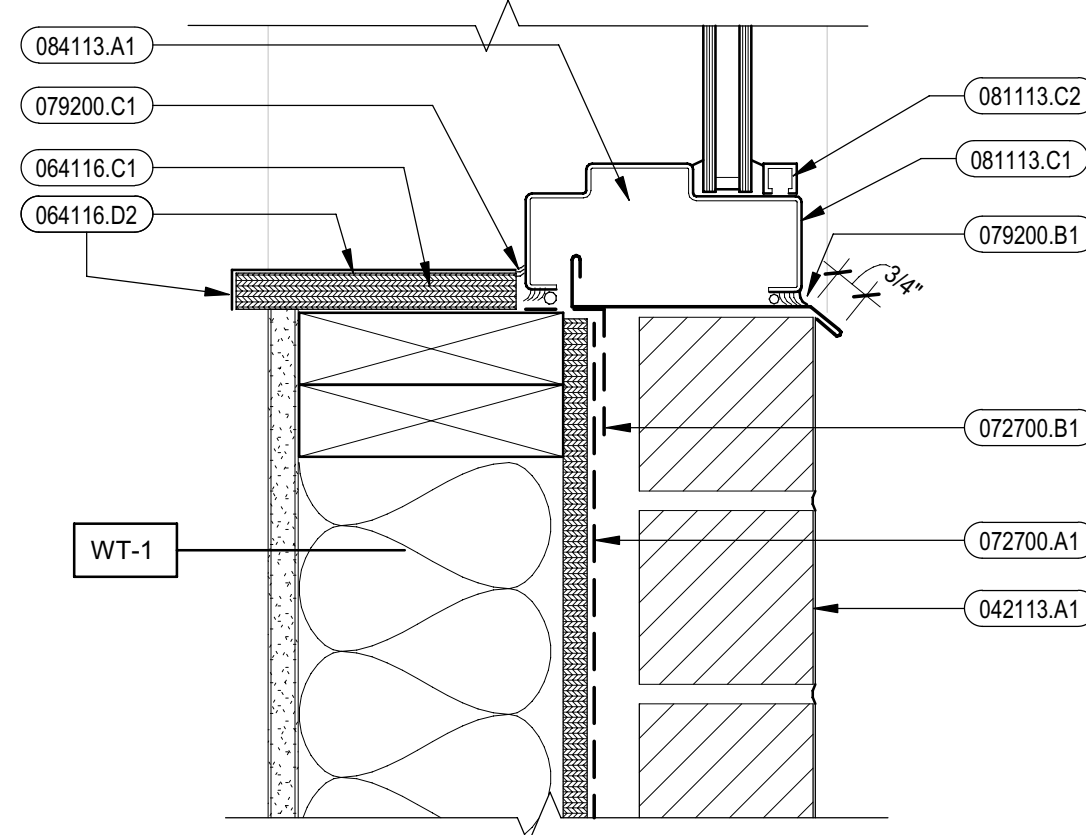
5 Window Head

3" = 1'-0"



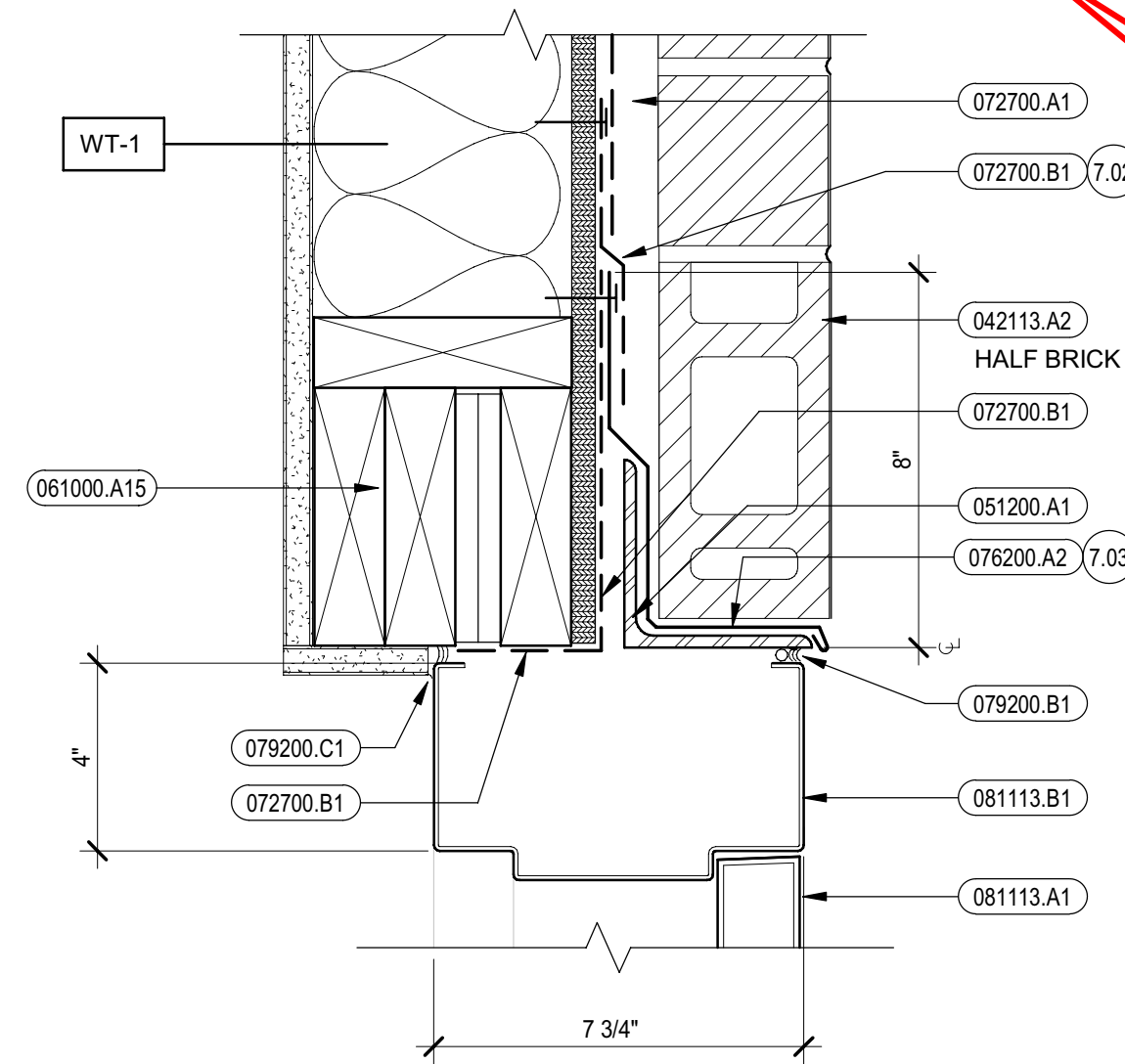
6 Window Jamb

3" = 1'-0"



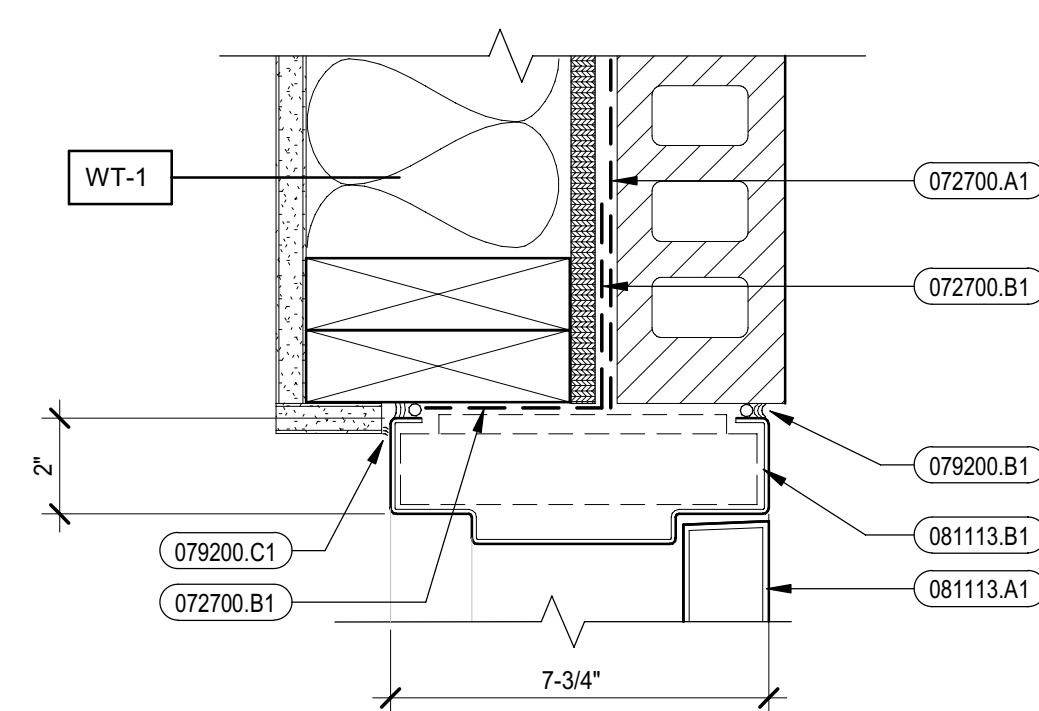
7 Window Sill

3" = 1'-0"



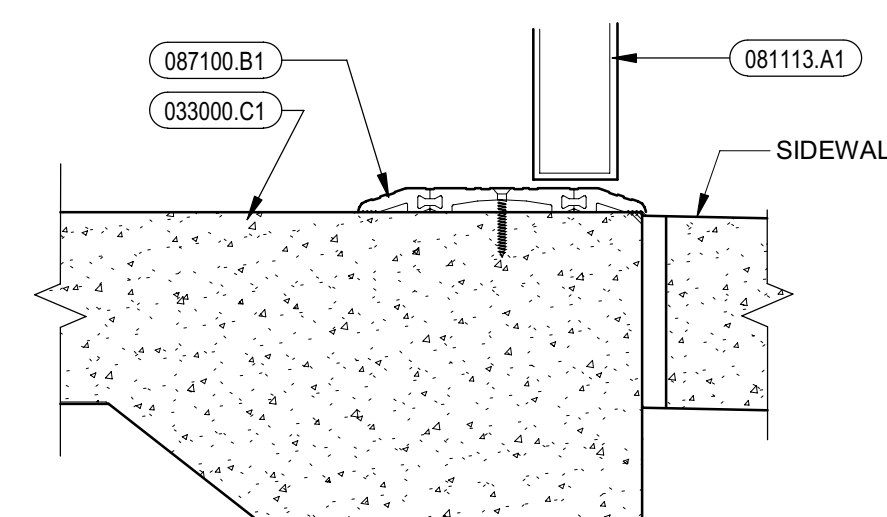
1 Exterior Door Head

3" = 1'-0"



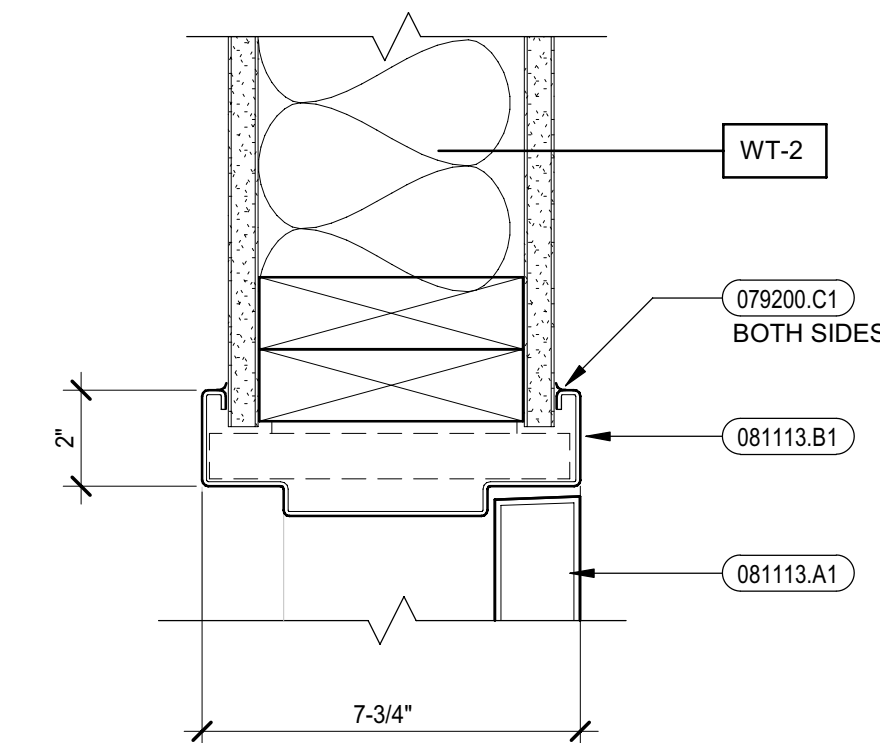
2 Exterior Door Jamb

3" = 1'-0"



3 Exterior Door Sill

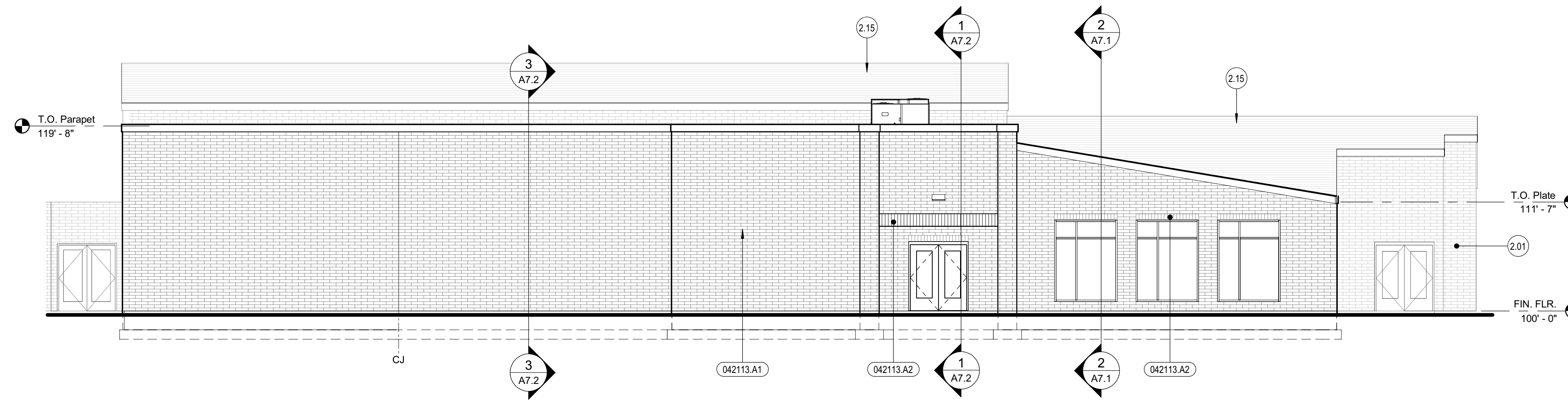
3" = 1'-0"



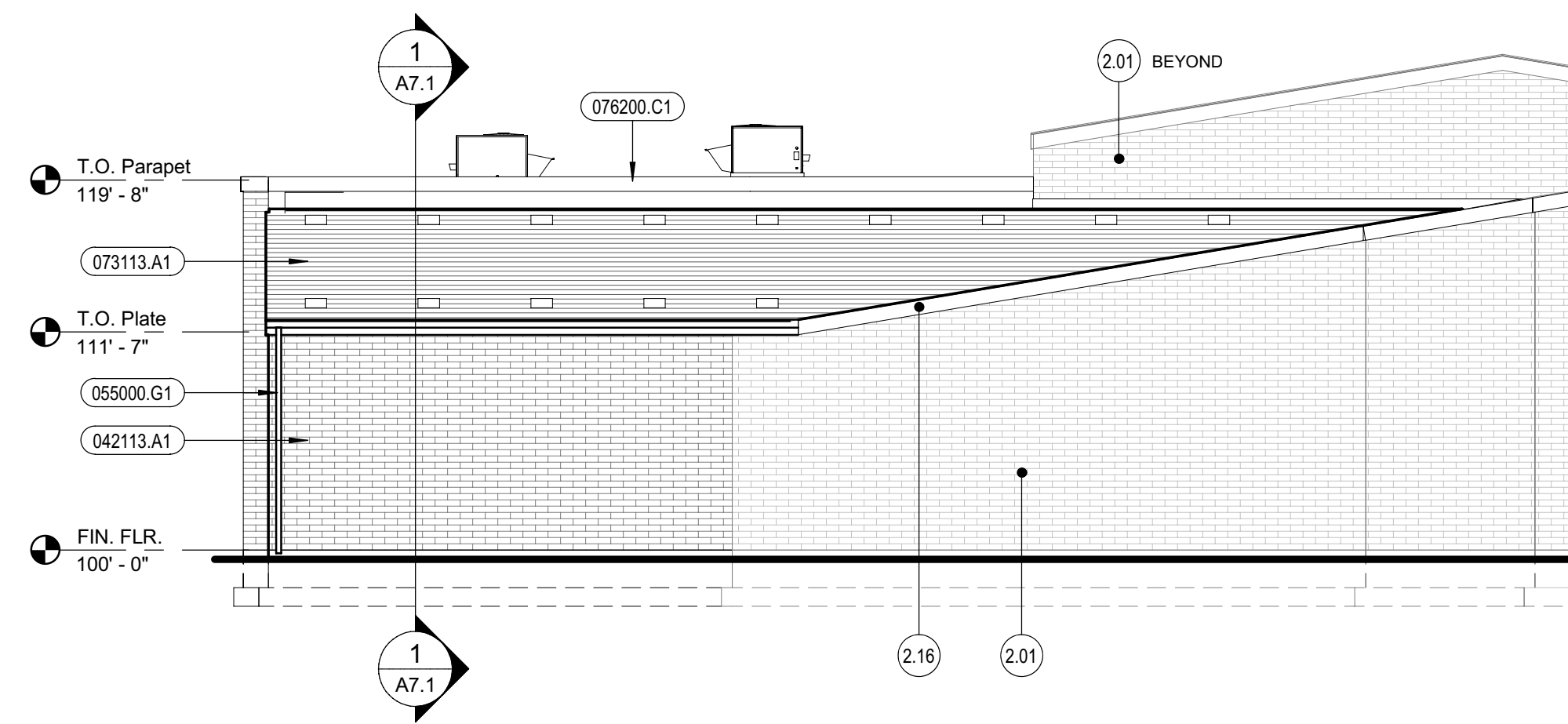
4 Door Jamb

3" = 1'-0"

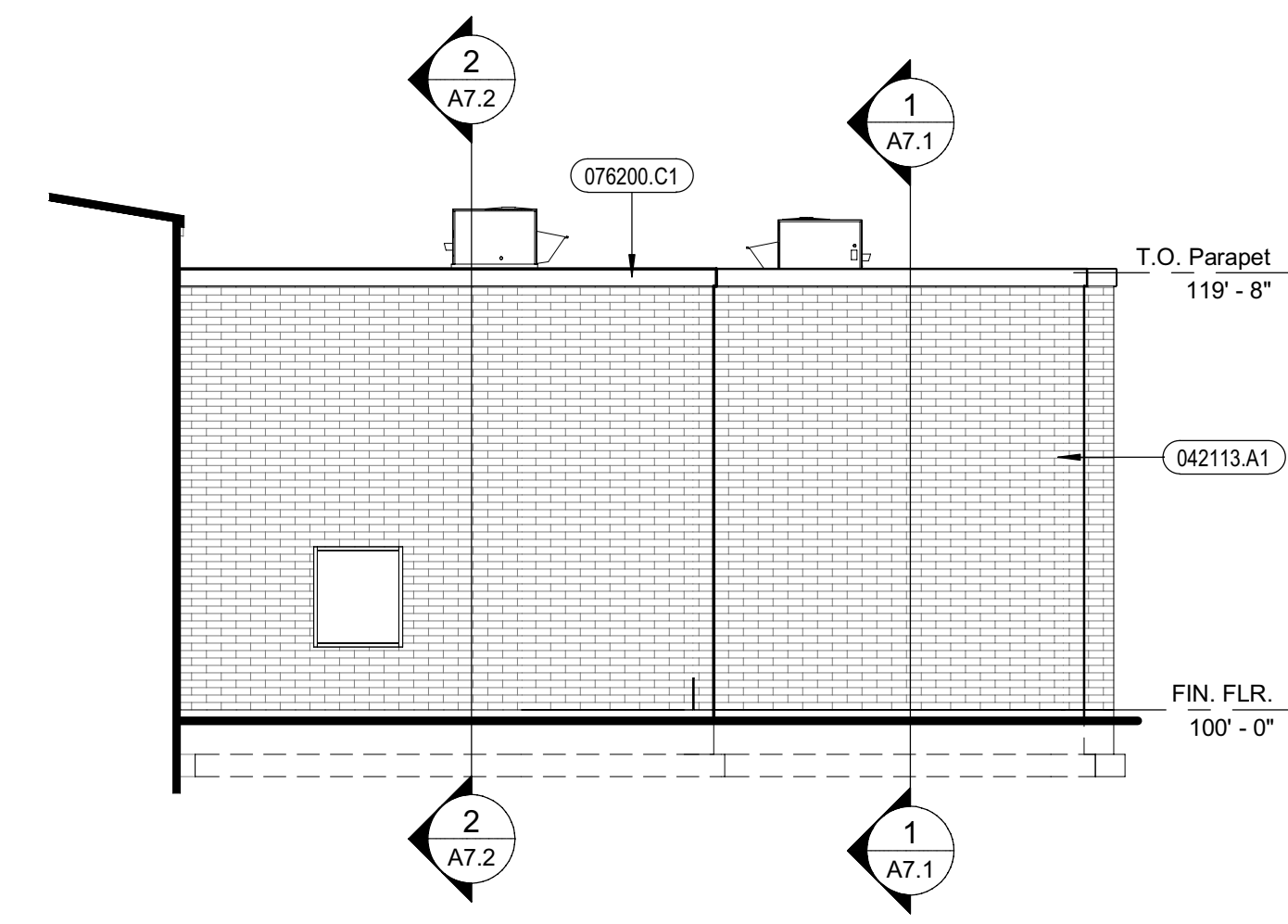
Head Sim.



North Elevation
1/8" = 1'-0"



West Elevation
1/8" = 1'-0"



East Elevation
1/8" = 1'-0"

General Notes

CJ MASONRY CONTROL JOINT

Reference Notes

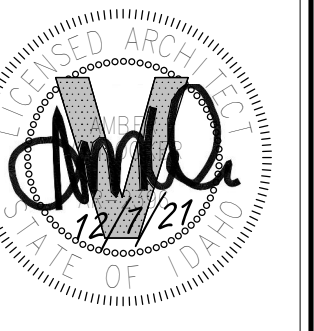
- 2.01 EXISTING 2X6" STUD / BRICK VENEER WALL TO REMAIN.
- 2.15 EXISTING ASPHALT SHINGLES TO REMAIN.
- 2.16 EXISTING WOOD FASCIA TO REMAIN.

Keyed Notes

- 042113.A1 CLAY FACE (VENEER) BRICK, 4X4X16
- 042113.A2 CLAY FACE (VENEER) BRICK, SOLDIER COURSE
- 055000.G1 STEEL TUBE DOWNSPOUT, 4"x4"x1/8" STEEL TUBE, BEVEL CUT OUTLET AS INDICATED. PRIME & PAINT.
- 073113.A1 ASPHALT SHINGLES
- 076200.C1 PRE-FINISHED METAL COPING, 24 GA. WITH HEMMED DRIPS



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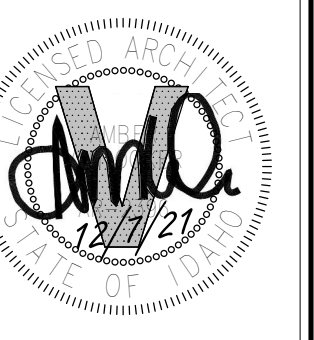
BID SET

DRAWING NO.:

A5.1
ELEVATIONS



This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.



General Notes

1. VERIFY ALL EXISTING DIMENSIONS SHOWN AND REQUIRED DIMENSION NOT SHOWN PRIOR TO FABRICATION AND INSTALLATION OF COMPONENTS.
2. MAINTAIN BUILDING IN A WATERTIGHT CONDITION THROUGHOUT ENTIRE CONSTRUCTION PERIOD.
3. ALL ROOFING WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH MANUFACTURER'S PRODUCT AND SYSTEM RECOMMENDATIONS AND IN COMPLIANCE WITH INTERNATIONAL BUILDING CODE REQUIREMENTS.
4. ON EXISTING ROOF, ROOFING SCOPE OF WORK SHALL INCLUDE REMOVAL OF EXISTING COMPOSITION SHINGLES, UNDERLAYMENT, WATERPROOFING MEMBRANE, ROOF VENTS AS INDICATED, AND FLASHING AND GUTTER METAL AS INDICATED OR REQUIRED, AND ONLY TO THE EXTENTS NECESSARY FOR THE NEW ROOF AND ROOFING CONSTRUCTION.
5. REPLACE DAMAGED OR OTHERWISE DEFICIENT EXISTING ROOF SHEATHING NOT OTHERWISE INDICATED TO BE REMOVED, AS DIRECTED BY ARCHITECT OR CONSTRUCTION MANAGER.

Reference Notes

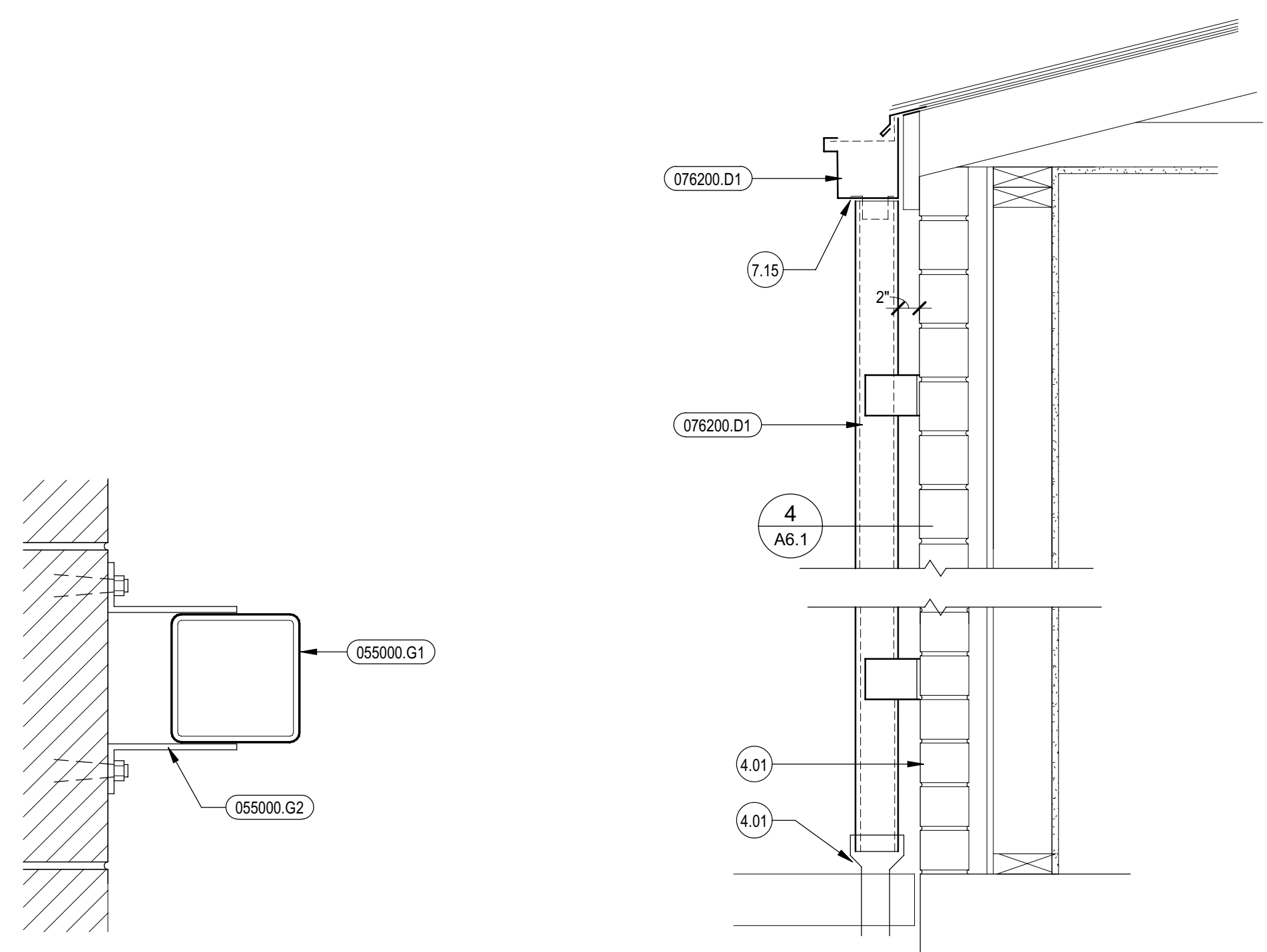
- 2.02 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
- 2.15 EXISTING ASPHALT SHINGLES TO REMAIN.
- 2.27 REMOVE EXISTING SHINGLES TO EXTENTS ONLY AS REQUIRED FOR INSTALLATION OF NEW ROOF AND NEW ROOF FRAMING. COORDINATE WITH THE REQUIREMENTS OF THE ROOF FRAMING PLAN.
- 4.01 MASONRY VENEER
- 7.13 MAINTAIN EXISTING ROOF VENTILATION OPENINGS.
- 7.14 FLASH DRAINS PER ROOFING MEMB. MFR'S STANDARDS.
- 7.15 SOLDER IN GUTTER SLEEVE WATER TIGHT
- 7.21 PROVIDE TYPICAL BUILT-UP CRICKETS BEHIND RTU AT 1/2" FT. FROM HOR. PLANE.
- 23.01 MECHANICAL ROOF TOP UNIT. RE: MECHANICAL DRAWINGS.

Keyed Notes

- 055000.G1 STEEL TUBE DOWNSPOUT. 4"x4"x1/8" STEEL TUBE, BEVEL CUT OUTLET AS INDICATED. PRIME & PAINT.
- 055000.G2 2 1/2" X 4" X 3/16" X 3" LONG STEEL L CLIPS, WELD TO DOWNSPOUT BOTH SIDES, AT TOP & 1'-6" FROM BOTTOM - BOLT TO MASONRY WALL W/ 5/8" DIA. X 3" EXPANSION BOLTS (PAINT).
- 061600.A2 ROOF SHEATHING. SEE STRUCTURAL.
- 061753.A1 PRE-ENGINEERED WOOD ROOF TRUSS(ES)
- 073113.A1 ASPHALT SHINGLES
- 075423.A1 TPO SINGLE-PLY ROOFING ASSEMBLY
- 075423.A2 SINGLE-PLY ROOFING MEMBRANE - MECH. FASTENED TPO
- 075423.D1 RIGID ROOF INSULATION - POLYISOCYANURATE, (2) LAYERS, 2 1/2"
- 075423.D2 TAPERED ROOF INSULATION CRICKET- EPS BOARD
- 075423.E1 VAPOR RETARDER
- 076200.D1 4" 24 GA. PRE-FINISHED CONTINUOUS METAL BOX GUTTER. SLOPE TO DOWNSPOUTS.
- 077200.A1 ROOF HATCH
- 220100.E1 ROOF DRAIN NOZZLE. SEE PLUMBING
- 220100.E2 OVERFLOW DRAIN NOZZLE. SEE PLUMBING.
- 220100.F1 RECEIVER

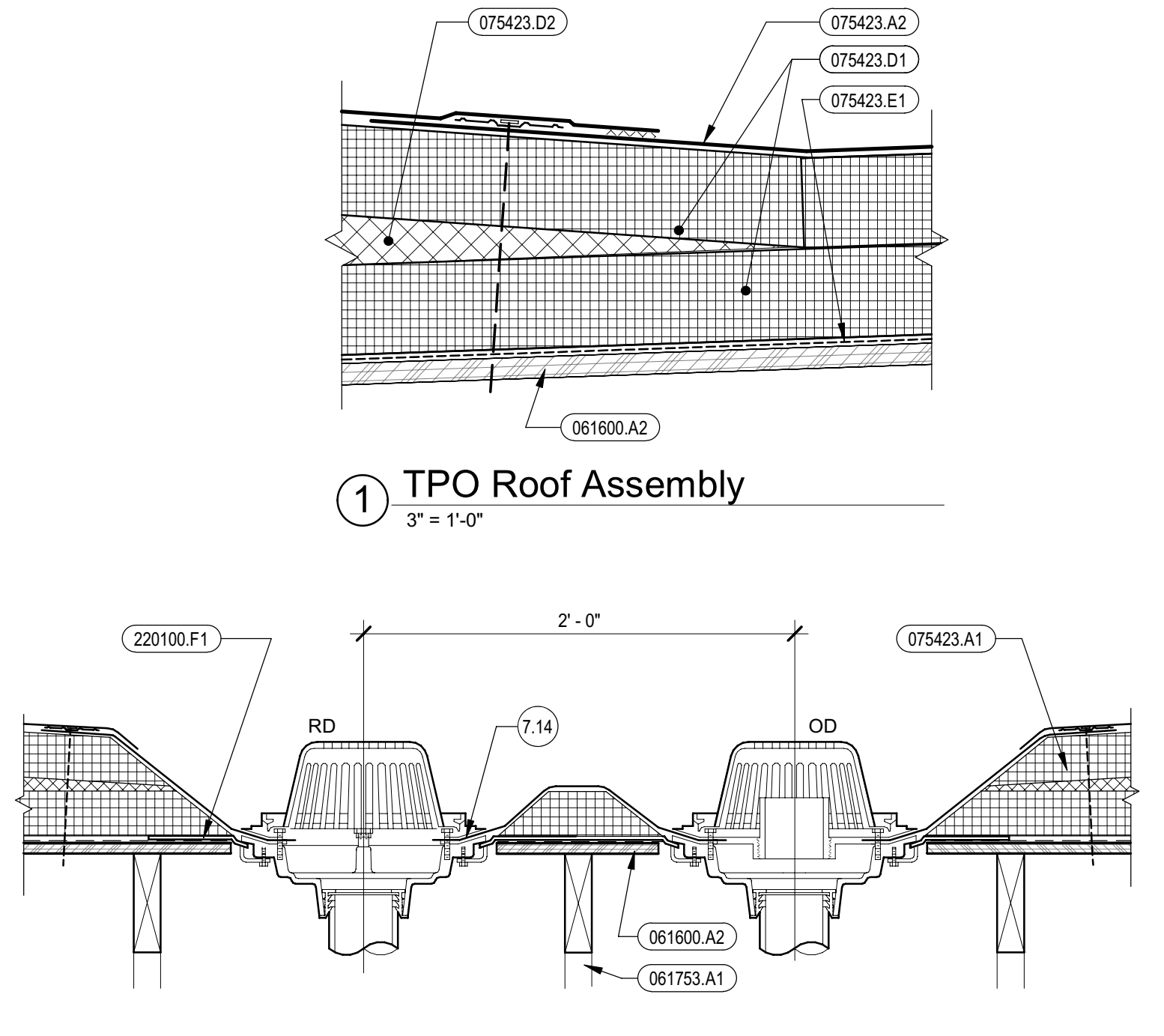
Legend

- ROOF DRAIN. SEE PLUMBING
- OVERFLOW DRAIN. SEE PLUMBING
- VENT-THRU-ROOF. SEE PLUMBING
- TAPERED EPS CRICKET. SLOPE 1/2" / FT. FROM HORIZONTAL PLANE
- NEW SLANT BACK ATTIC VENT.



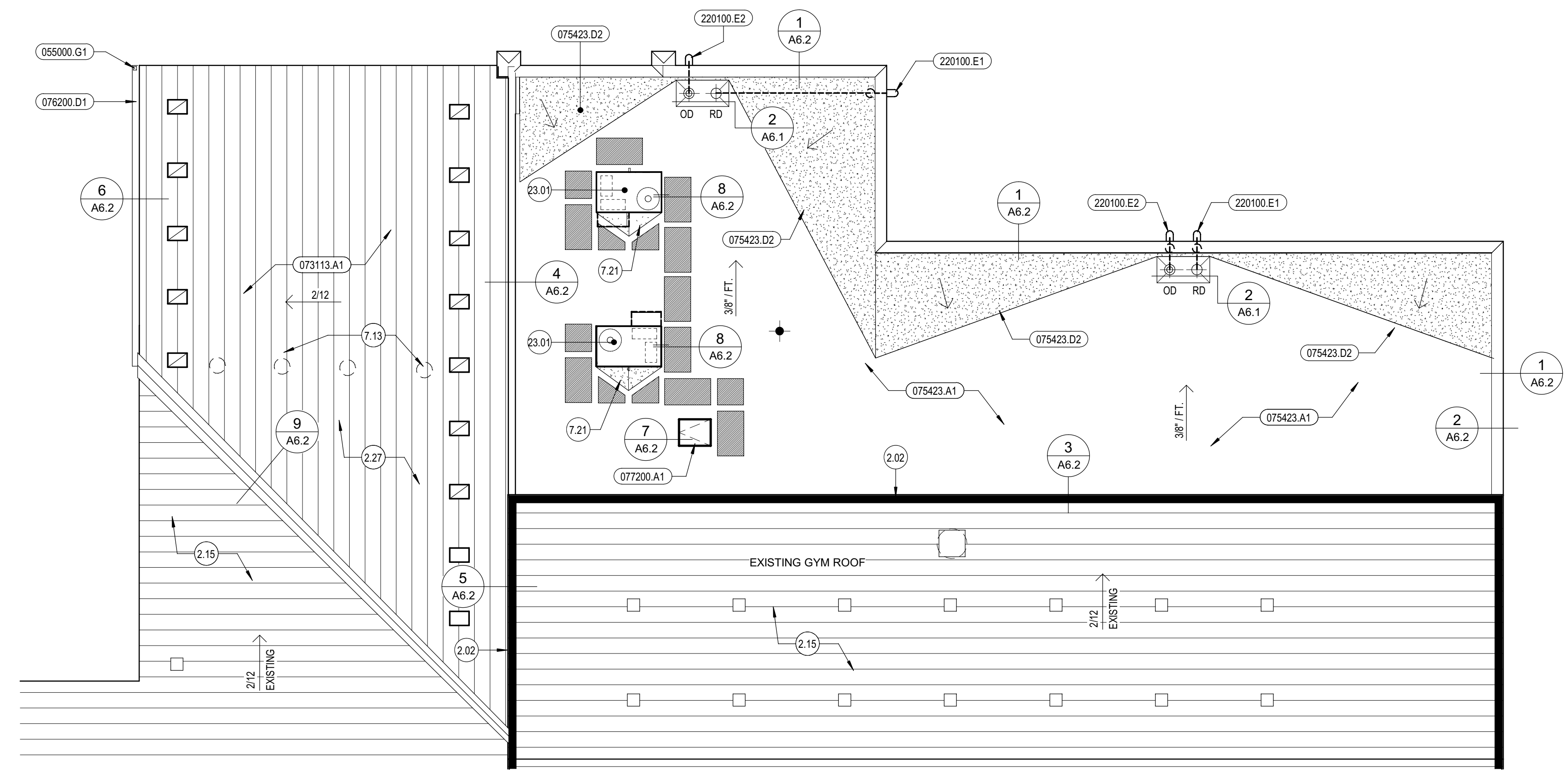
4 DOWNSPOUT DETAIL
3" = 1'-0"

3 DOWNSPOUT DETAIL
1" = 1'-0"

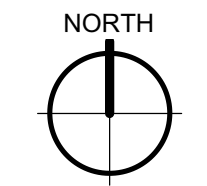


1 TPO Roof Assembly
3" = 1'-0"

2 ROOF DRAIN DETAIL
1 1/2" = 1'-0"



Roof Plan
1/8" = 1'-0"



BLD2112-00033

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SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

Revisions	Description	Date
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An Addition to
Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

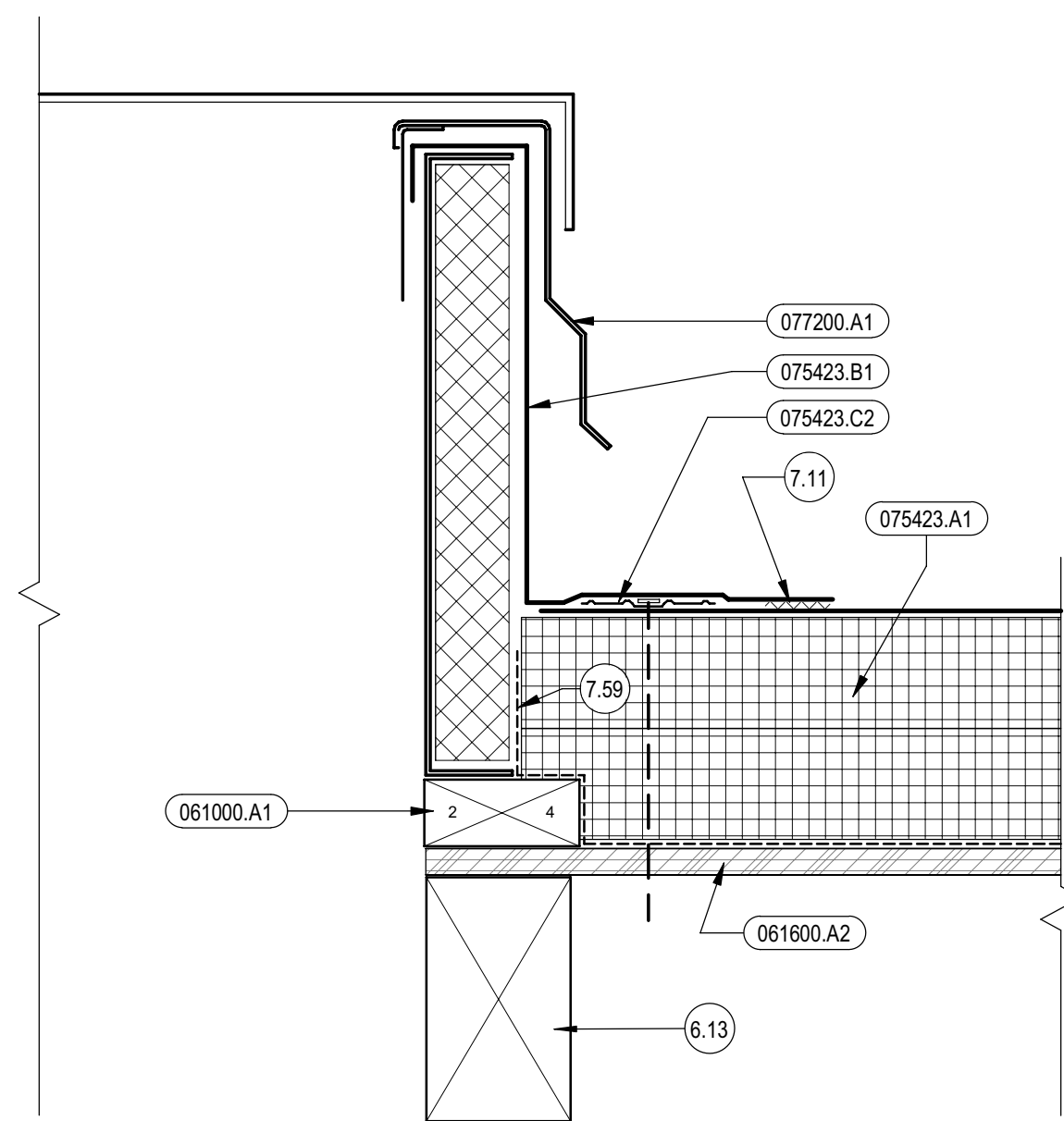
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LKV PROJECT #: 2122

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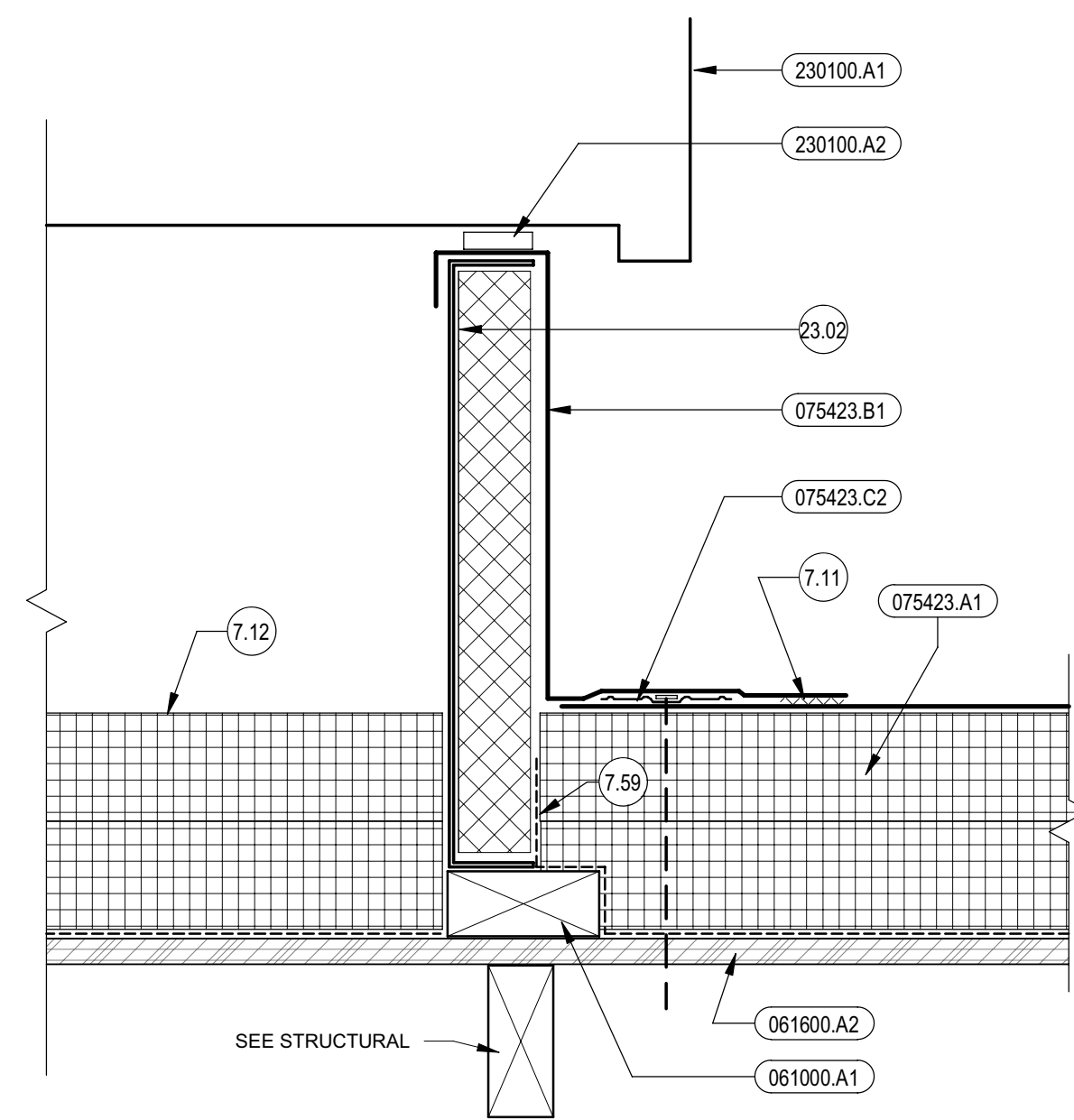
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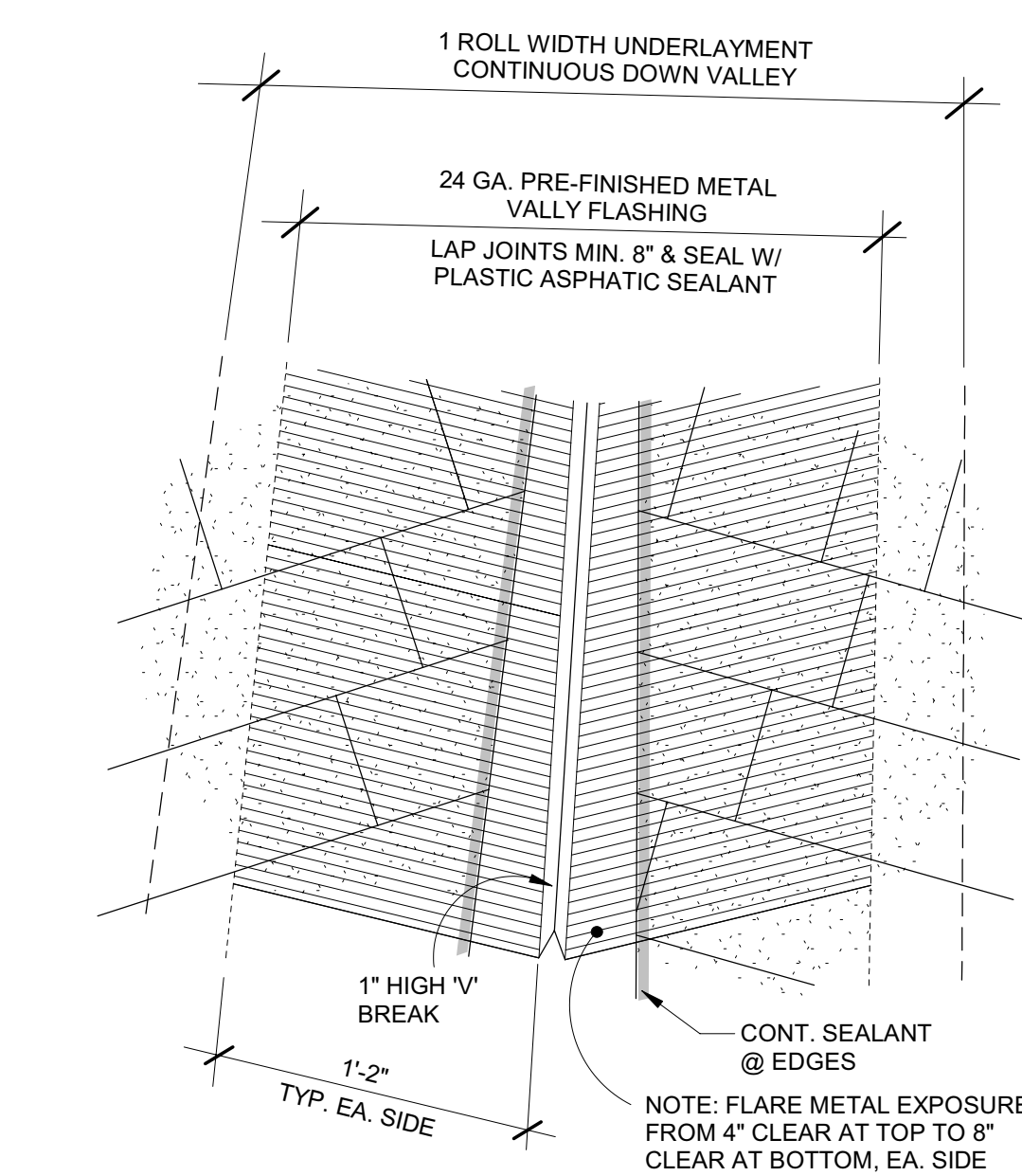
A6.1
ROOF PLAN



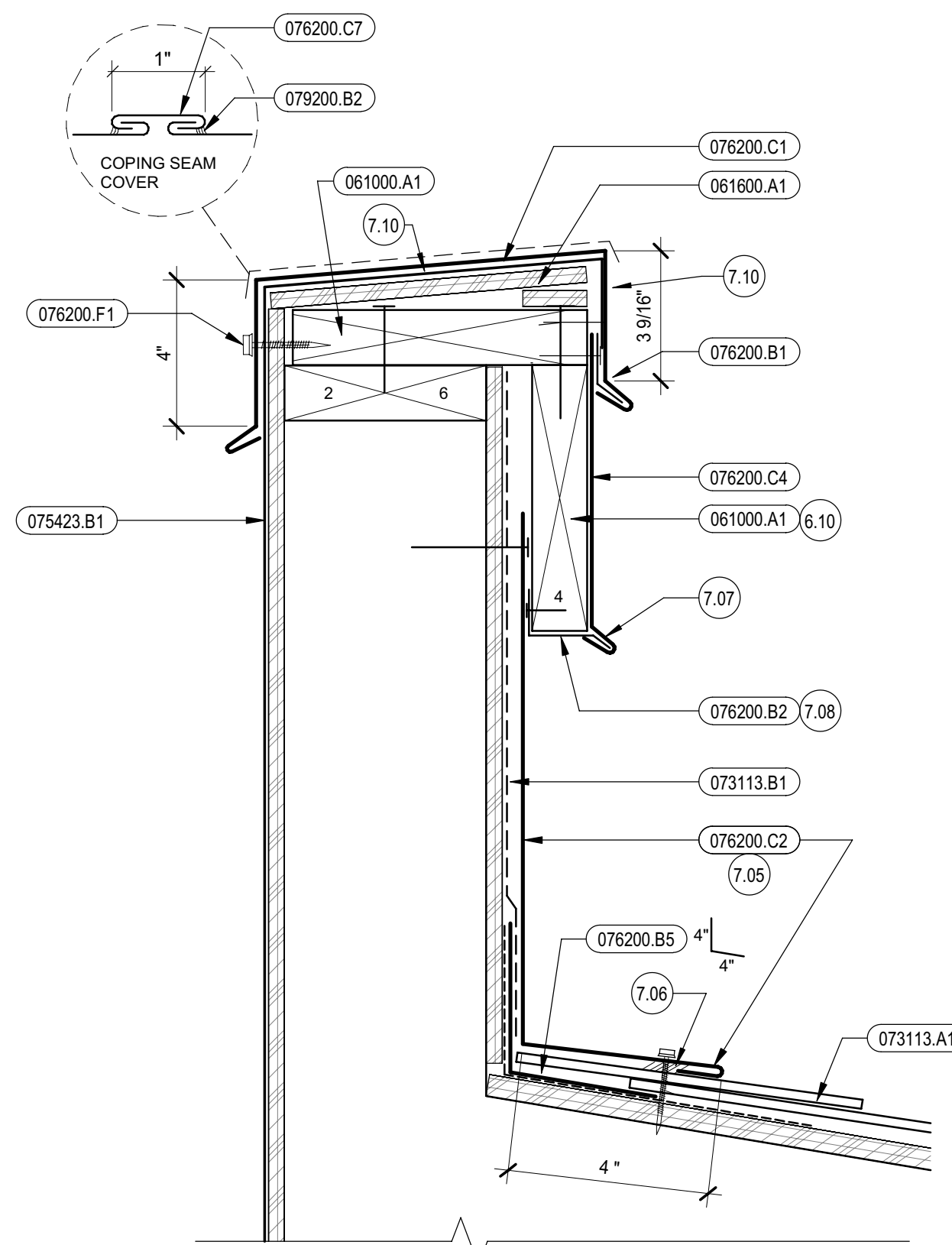
7 ROOF HATCH CURB
3" = 1'-0"



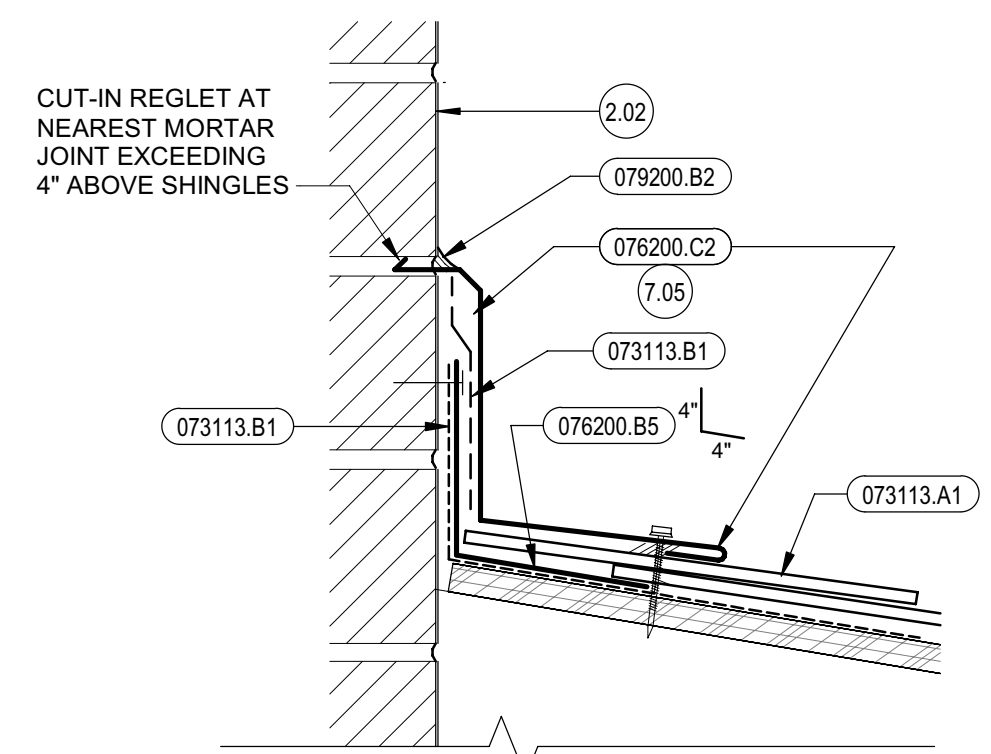
8 MECHANICAL CURB
3" = 1'-0"



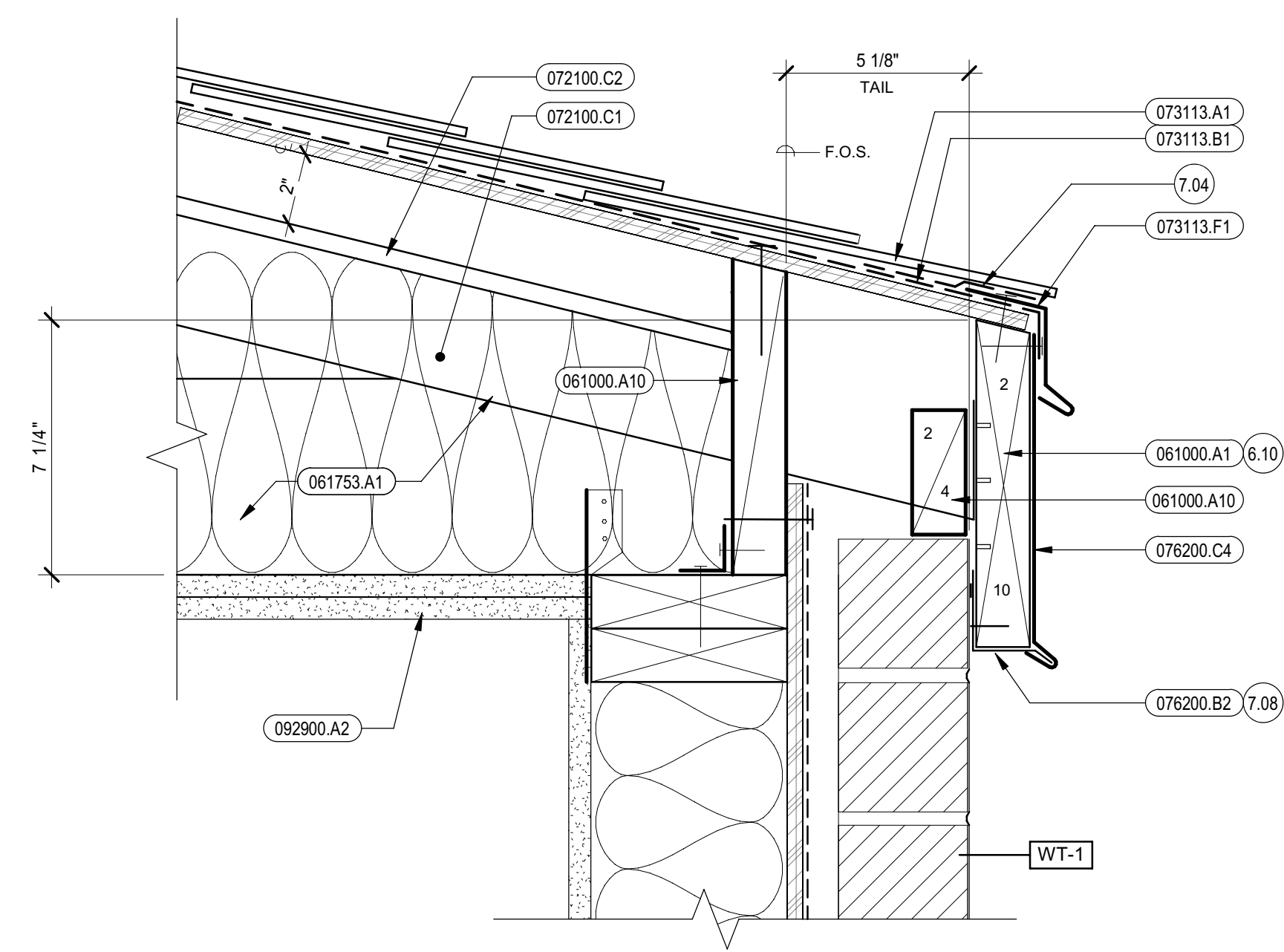
9 PARAPET COPING
1 1/2" = 1'-0"



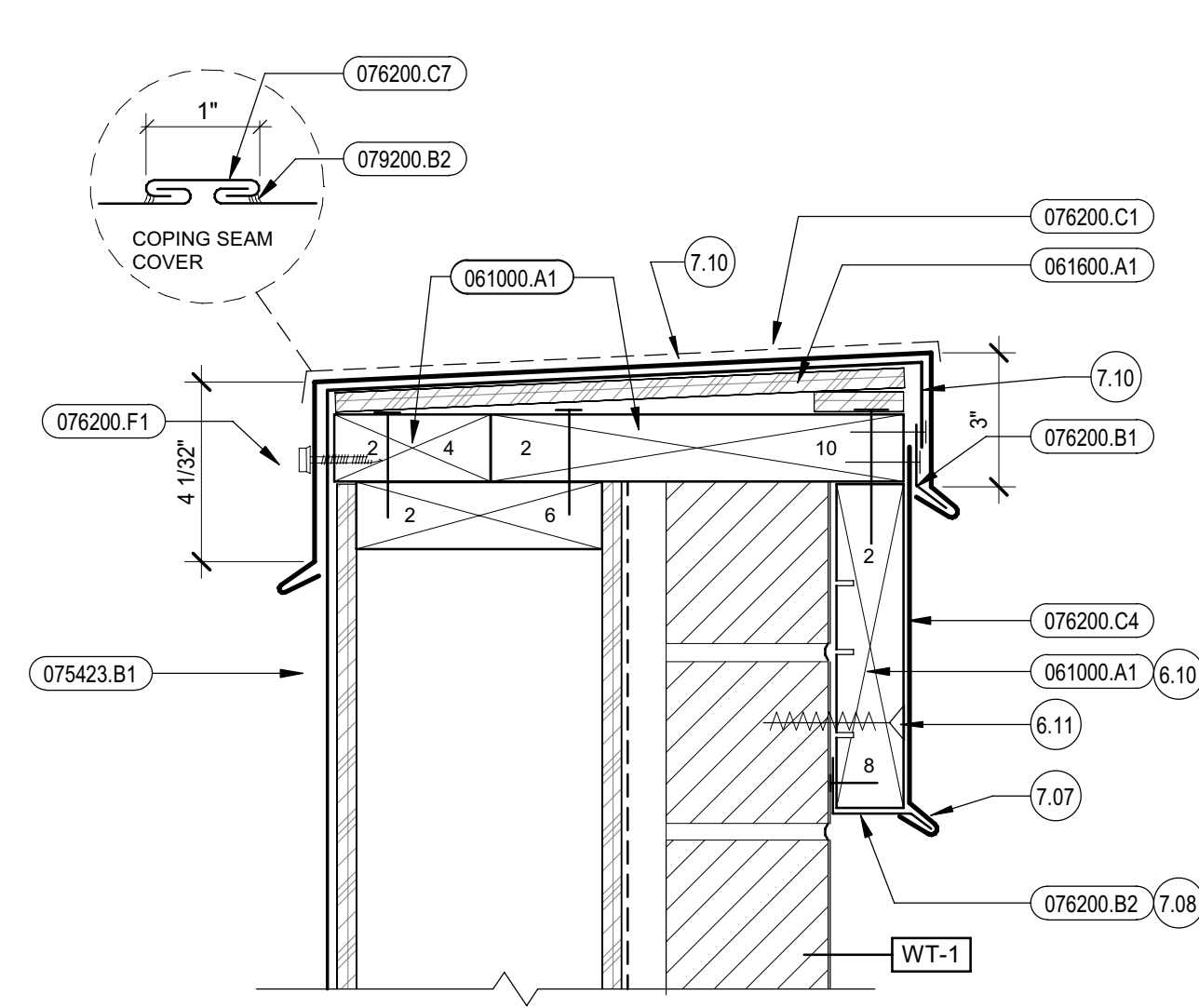
4 Parapet Coping & Flashing @ Shingles
3" = 1'-0"



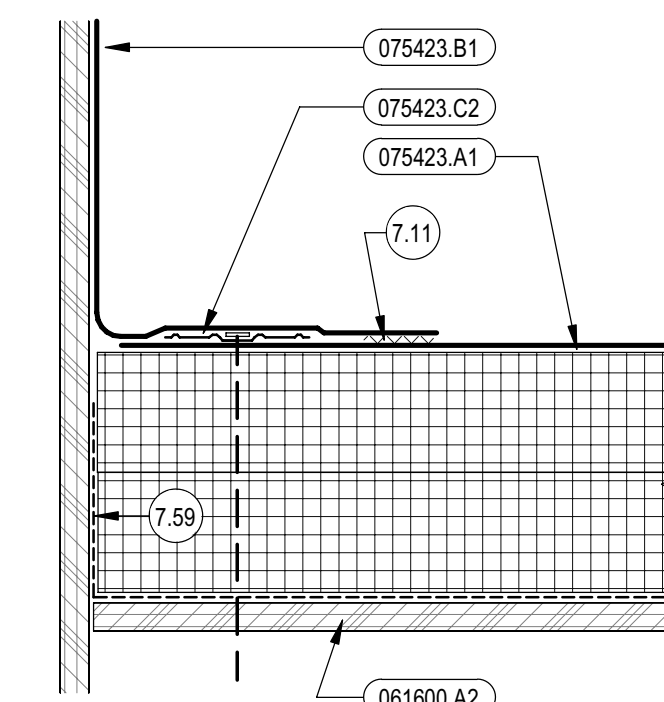
5 Parapet Flashing @ Shingles
3" = 1'-0"



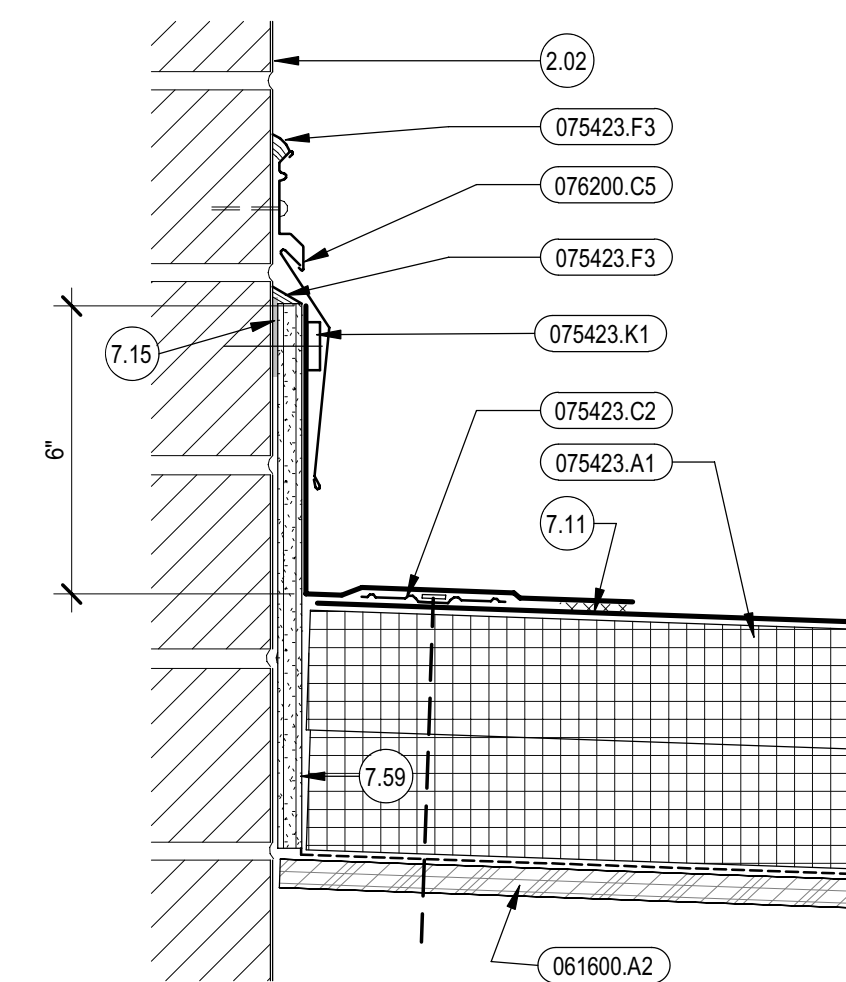
6 PARAPET COPING
3" = 1'-0"



1 PARAPET COPING
3" = 1'-0"



2 SP @ Parapet
3" = 1'-0"



3 SP @ Brick/Reglet
3" = 1'-0"

Reference Notes

- 2.02 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
- 6.10 SAWCUT KERF ON BACK OF FASCIA BD. MIN. (3) PLACES. PRIME PAINT ALL SURFACES.
- 6.11 TAPCONS @ MIN. 16" O.C. - COUNTERSUNK HEADER FRAMING. SEE STRUCTURAL.
- 6.13 COUNTERFLASH 1" METAL EDGE WITH SA UNDERLAYMENT
- 7.04 FLASHING W/ HEMMED EDGE AND COLOR MATCHING HEX HEAD SCREWS W/ NEOPRENE WASHERS @ 24" O.C.
- 7.05 SET FLASHING IN CUT-OFF MASTIC AT EACH FASTENER
- 7.06 HEMMED DRIP OVER CLEAT
- 7.07 NOTE: FASTEN CLEAT/TRIM TO BACK OF FASCIA BOARD PRIOR TO ATTACHING FASCIA BD.
- 7.10 LAP TPO ROOFING MEMBRANE OVER TOP & DOWN FACE. FASTEN @ 16" O.C.
- 7.11 HOT AIR WELD
- 7.12 CONTINUE ROOFING INSULATION UNDER UNIT - ALL CAVITIES
- 7.15 SOLDER IN GUTTER SLEEVE WATER TIGHT
- 7.59 TURN UP VAPOR RETARDER MINIMUM 4" AND SEAL VAPOR RETARDER TO WALL AT PERIMETER OF ROOF, CURB, OR PIPE WITH DOUBLE BEAD OF URETHANE SEALANT.
- 23.02 CURB BY MECHANICAL.

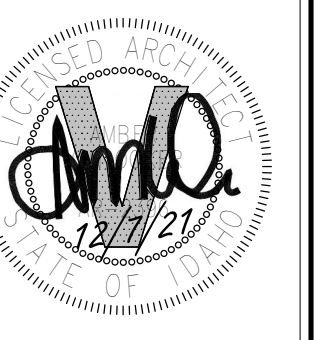
Keyed Notes

- 061000.A1 DIMENSION LUMBER
- 061000.A10 SOLID BLOCKING / BRIDGING
- 061600.A1 WALL SHEATHING. SEE STRUCTURAL.
- 061600.A2 ROOF SHEATHING. SEE STRUCTURAL.
- 061753.A1 PRE-ENGINEERED WOOD ROOF TRUSS(ES)
- 072100.C1 BLOWN INSULATION, GLASS FIBER, R38
- 072100.C2 INSULATION BAFFLE
- 073113.A1 ASPHALT SHINGLES
- 073113.B1 WATERPROOFING MEMBRANE - SA
- 073113.F1 PRE-FINISHED METAL DRIP EDGE, D-STYLE
- 075423.A1 TPO SINGLE-PLY ROOFING ASSEMBLY
- 075423.B1 ADHERED MEMBRANE PARAPET FLASHING.
- 075423.C2 TYPICAL PERIMETER FASTENERS
- 075423.F3 CONTINUOUS 1-PART POLYURETHANE SEALANT.
- 075423.K1 CONTINUOUS TERMINATION BAR
- 076200.B1 CONT. SURFACE MOUNTED CLEAT, 20 GA. GALV. FASTENED AT MAX. 12" O.C.
- 076200.B2 CONTINUOUS PREFINISHED 24 GA. CLEAT/TRIM.
- 076200.B5 18 GA. GALV. CONT. SUB-FLASHING
- 076200.C1 PRE-FINISHED METAL COPING, 24 GA. WITH HEMMED DRIPS
- 076200.C2 PRE-FINISHED METAL FLASHING, 24 GA.
- 076200.C4 PRE-FINISHED METAL FASCIA, 24 GA. W/ HEMMED DRIP
- 076200.C5 TWO-PIECE 24 GA. SURFACE MOUNTED REGLET
- 076200.C7 1" DRIVE ON JOINT COVER WITH CONT. SEALANT EACH SIDE.
- 076200.F1 HEX HEAD SCREWS W/ NEOPRENE WASHERS AT MAX. 24" O.C.
- 077200.A1 ROOF HATCH
- 079200.B2 ONE PART URETHANE SEALANT. COLOR MATCH COPING.
- 092900.A2 DOUBLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
- 230100.A1 MECHANICAL ROOFTOP EQUIPMENT
- 230100.A2 NEOPRENE GASKET



2400 E. Riverwalk Drive
Boise, Idaho 83706

www.lkvarchitects.com
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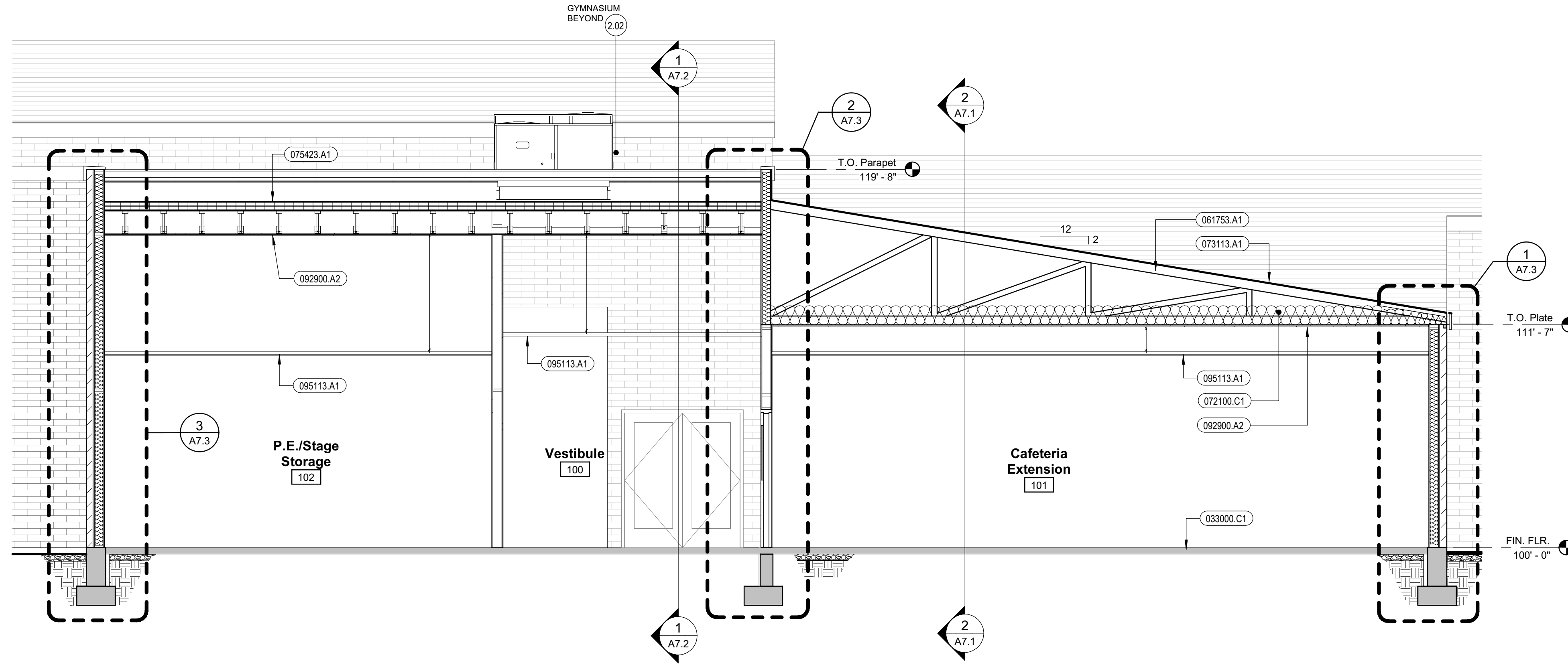
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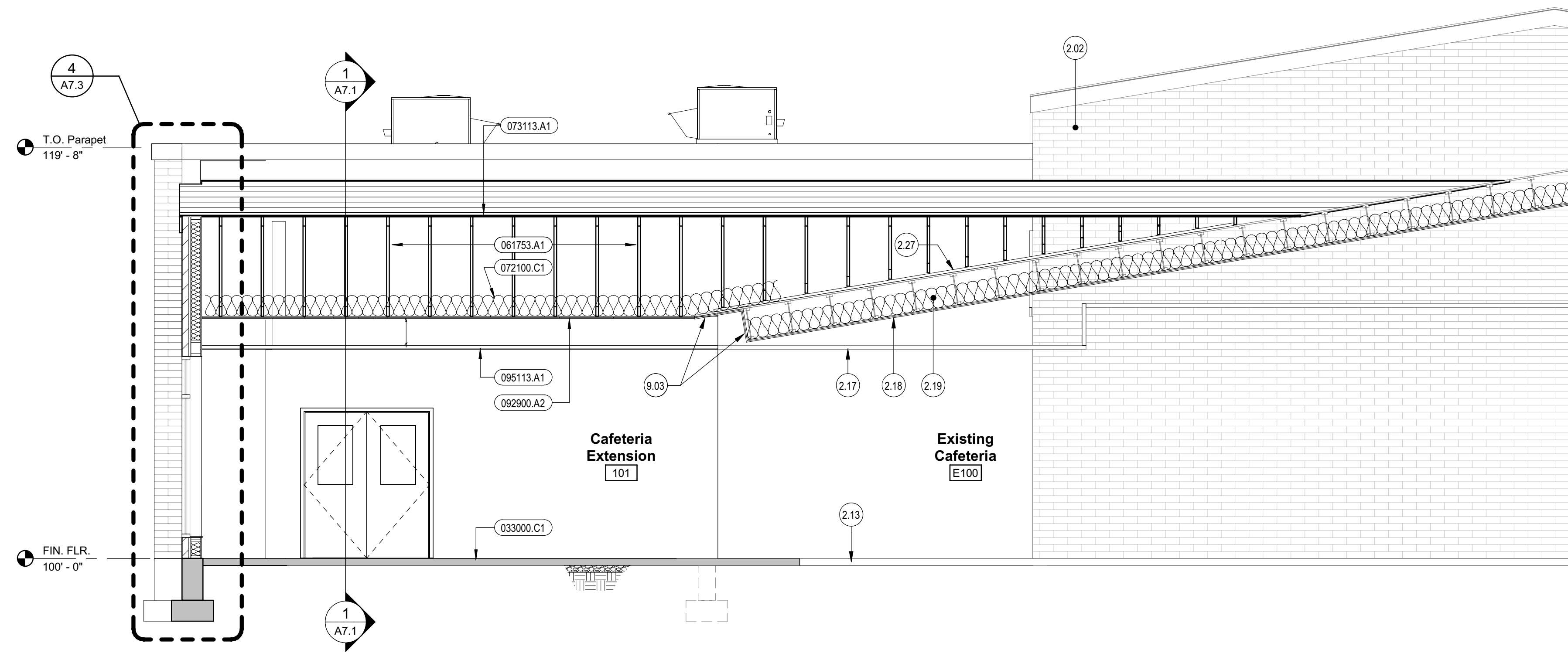
A6.2

ROOF DETAILS





1 Building Section
1/4" = 1'-0"



2 Building Section
1/4" = 1'-0"

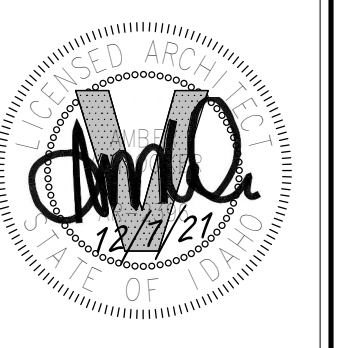
General Notes

Reference Notes

- 2.02 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL. TO REMAIN.
- 2.13 EXISTING FLOORING TO REMAIN.
- 2.17 EXISTING SUSPENDED CEILING TO REMAIN.
- 2.18 EXISTING DOUBLE LAYER GYP. BD. ON JOISTS TO REMAIN.
- 2.19 EXISTING BATT INSUL TO REMAIN.
- 2.27 REMOVE EXISTING SHINGLES TO EXTENTS ONLY AS REQUIRED FOR INSTALLATION OF NEW ROOF AND NEW ROOF FRAMING. COORDINATE WITH THE REQUIREMENTS OF THE ROOF FRAMING PLAN.
- 9.03 NOTE: PROVIDE CONTINUATION OF DOUBLE LAYER 5/8" TYPE 'X' GYP. OVER TO BOT. OF NEW JOIST SYSTEM.

Keyed Notes

033000.C1	CONCRETE FLOOR SLAB-ON-GRADE, 4". SEE STRUCTURAL
061753.A1	PRE-ENGINEERED WOOD ROOF TRUSS(ES)
072100.C1	BLOWN INSULATION, GLASS FIBER, R38
073113.A1	ASPHALT SHINGLES
075423.A1	TPO SINGLE-PLY ROOFING ASSEMBLY
092900.A2	DOUBLE LAYER GYPSUM BOARD, 5/8" TYPE 'X' U.N.O.
095113.A1	SUSPENDED ACOUSTICAL PANEL CEILING



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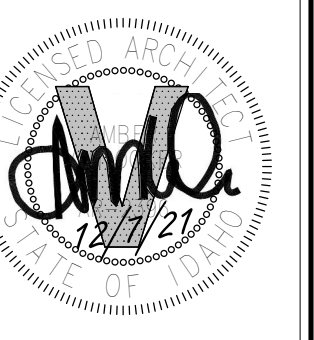
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DRAWING NO.:

A7.1
BUILDING SECTIONS



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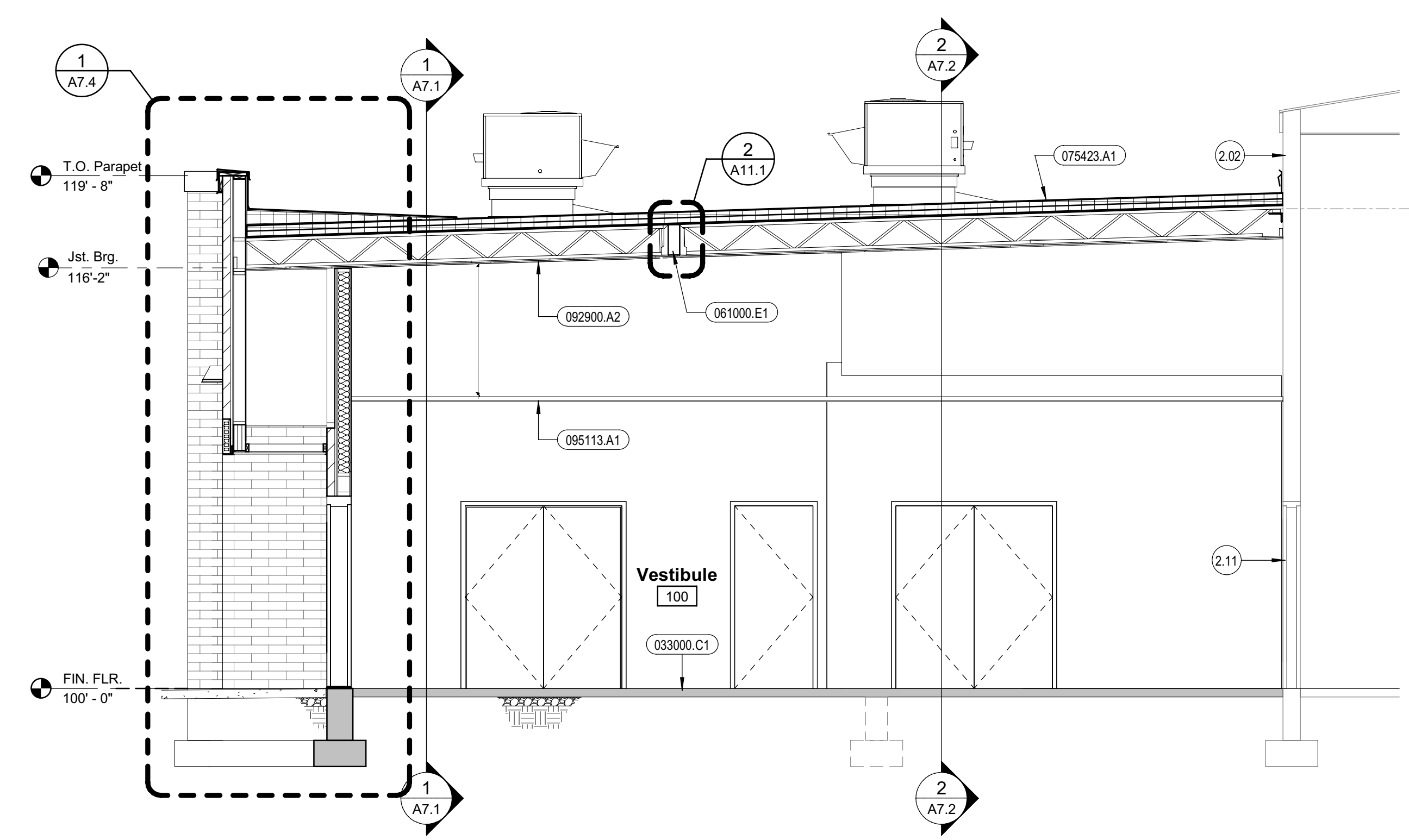
General Notes

Reference Notes

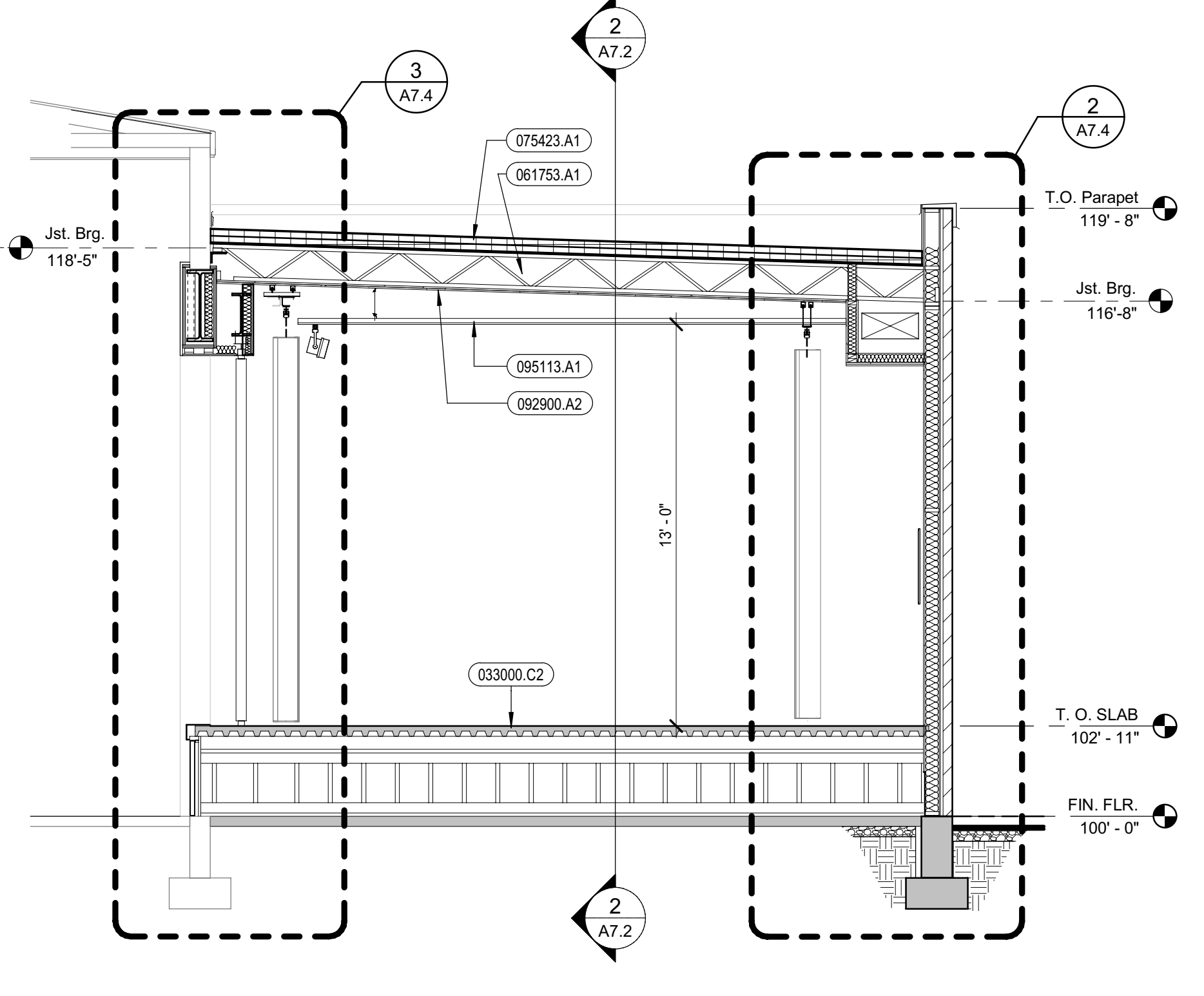
- 2.02 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
- 2.03 EXISTING 2X6 BEARING STUD WALL TO REMAIN.
- 2.11 EXISTING DOOR & FRAME TO REMAIN.
- 2.18 EXISTING DOUBLE LAYER GYP. BD. ON JOISTS TO REMAIN.
- 2.19 EXISTING BATT INSUL TO REMAIN.

Keyed Notes

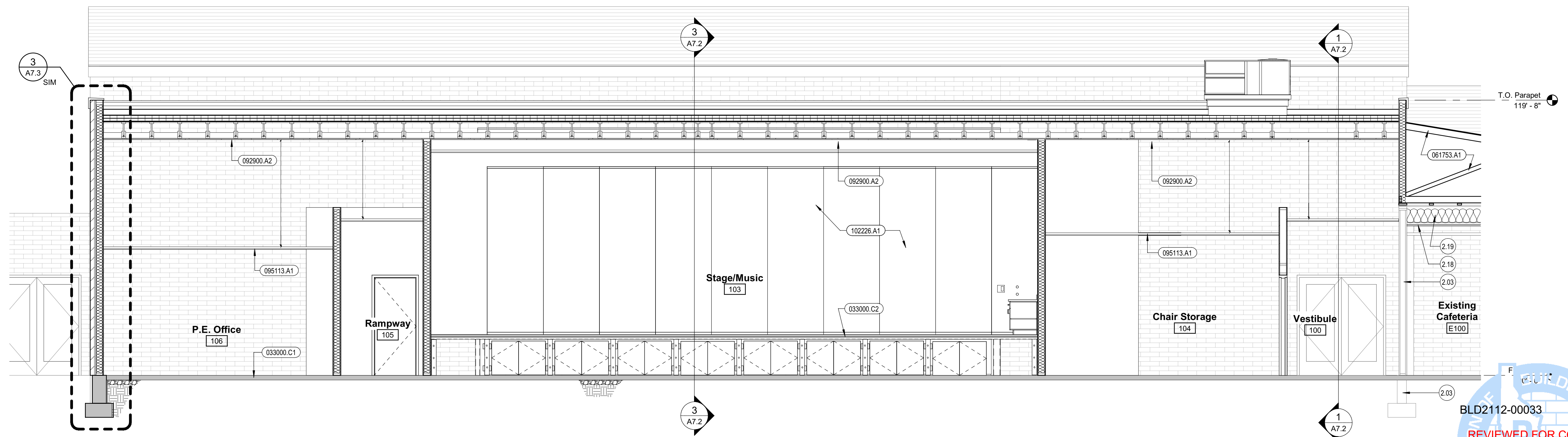
- 033000.C1 CONCRETE FLOOR SLAB-ON-GRADE, 4". SEE STRUCTURAL
- 033000.C2 CONCRETE SLAB-ABOVE-GRADE ON STEEL PAN. SEE STRUCTURAL.
- 061000.E1 ENGINEERED LUMBER BEAM / HEADER / LEDGER
- 061753.A1 PRE-ENGINEERED WOOD ROOF TRUSS(ES)
- 061753.A3 PRE-ENGINEERED WOOD ROOF TRUSS(ES) - PARALLEL CHORD - 24' O.C. U.N.O.
- 075423.A1 TPO SINGLE-PLY ROOFING ASSEMBLY
- 092900.A2 DOUBLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
- 095113.A1 SUSPENDED ACOUSTICAL PANEL CEILING
- 102226.A1 OPERABLE PARTITION SYSTEM PANELS



1 Building Section
1/4" = 1'-0"



3 Building Section
1/4" = 1'-0"



2 Building Section
1/4" = 1'-0"

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#		

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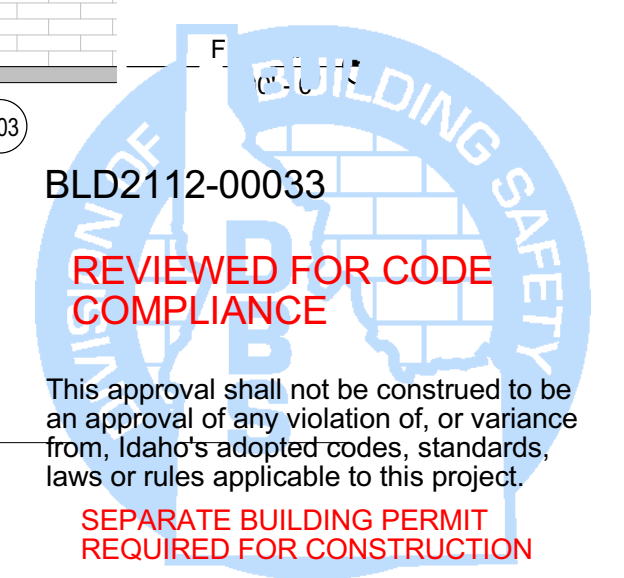
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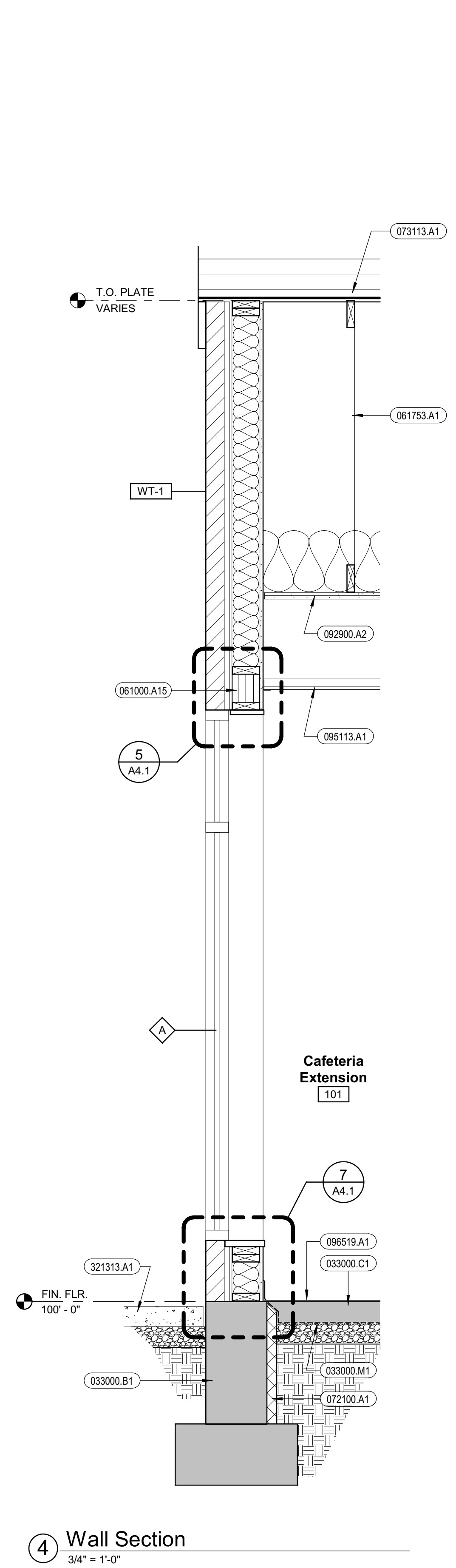
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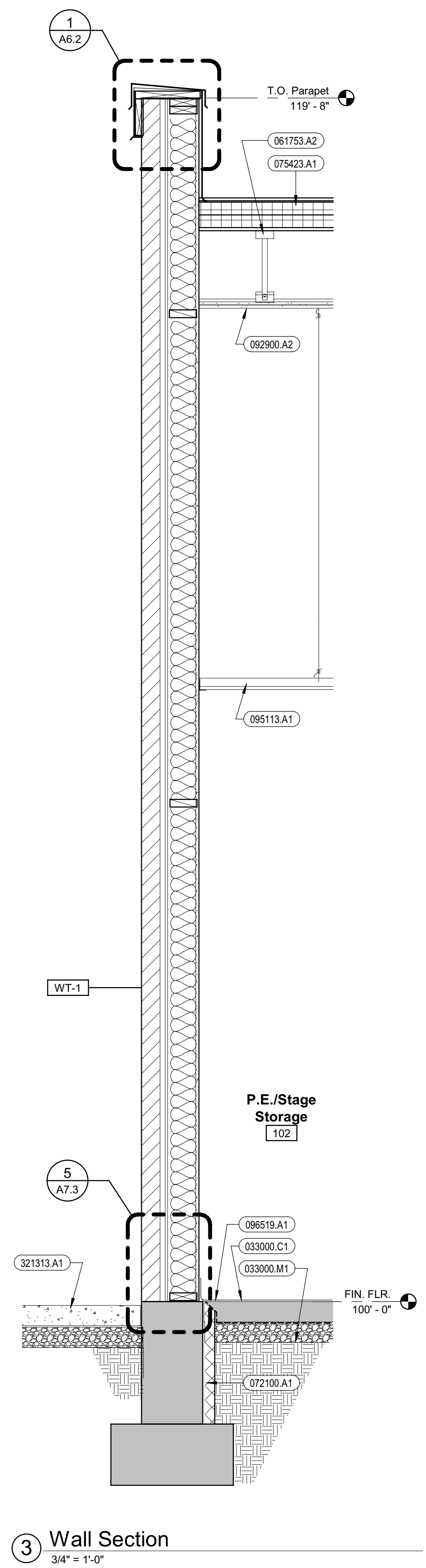
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A7.2
BUILDING SECTIONS

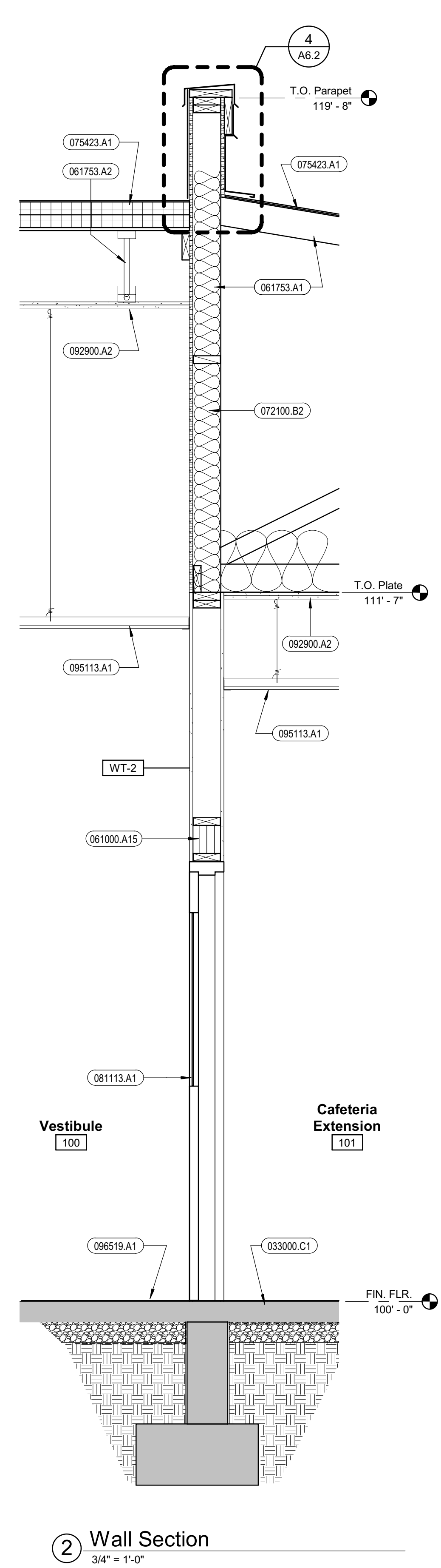




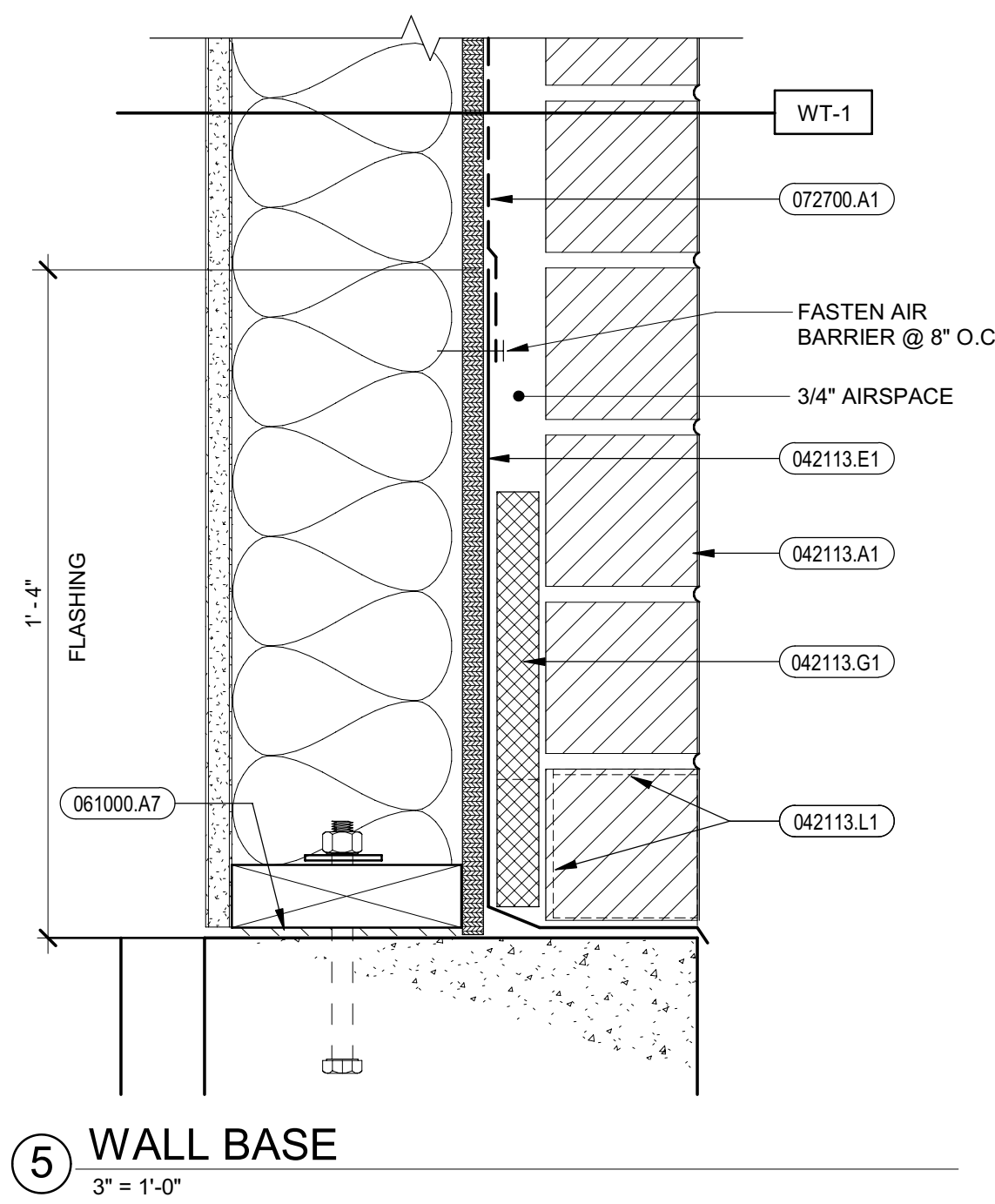
4 Wall Section
3/4" = 1'-0"



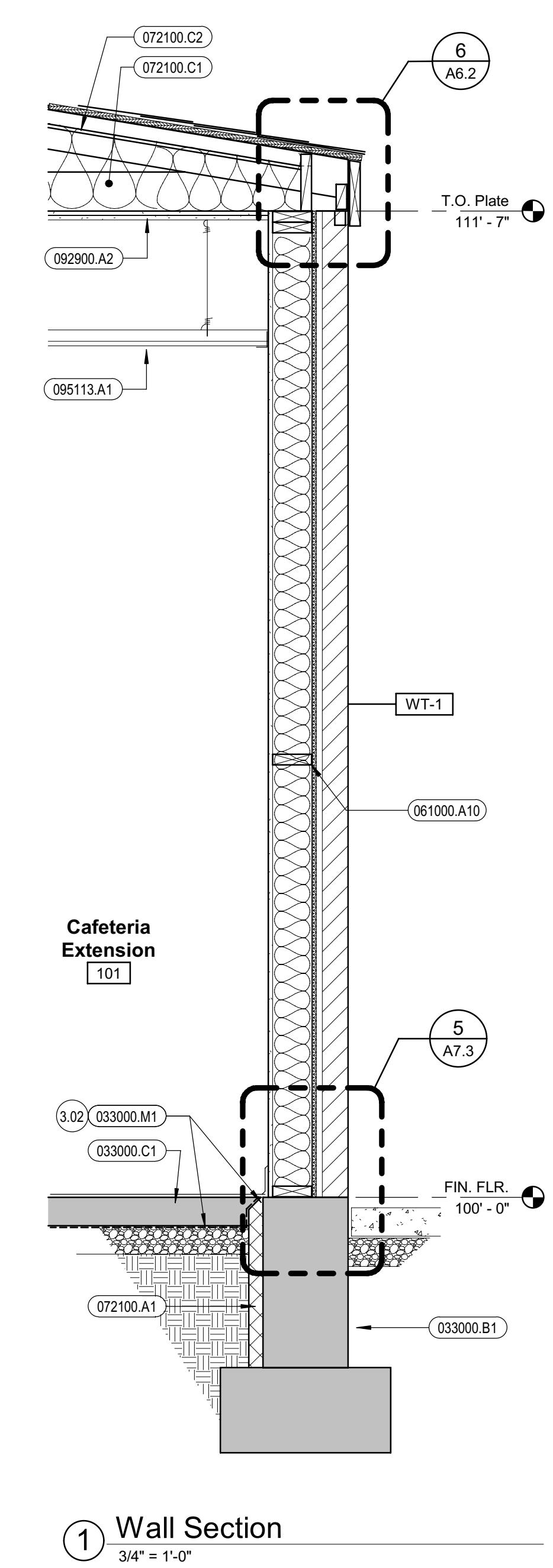
3 Wall Section
3/4" = 1'-0"



2 Wall Section
3/4" = 1'-0"



5 WALL BASE
3" = 1'-0"



1 Wall Section
3/4" = 1'-0"

General Notes

Reference Notes

3.02 TURN UP VAPOR RETARDER TO TOP OF FOUNDATION WALL AND SEAL TO INSULATION WITH URETHANE SEALANT.

Keyed Notes

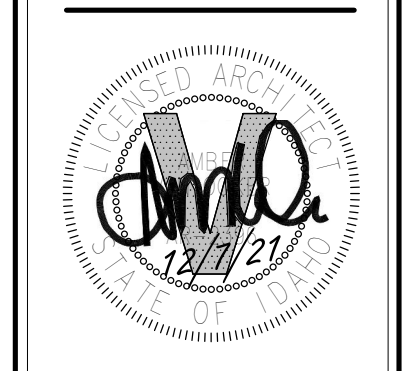
- 033000.B1 CONCRETE FOUNDATION WALL. SEE STRUCTURAL
- 033000.C1 CONCRETE FLOOR SLAB-ON-GRADE, 4". SEE STRUCTURAL
- 033000.M1 VAPOR RETARDER
- 042113.A1 CLAY FACE (VENEER) BRICK, 4X4X16
- 042113.E1 THRU-WALL BASE FLASHING. EXTEND ABOVE MORTAR GUARD 6"
- 042113.G1 MORTAR GUARD
- 042113.L1 WEEP VENT, PLASTIC
- 061000.A7 CONTINUOUS SILL SEALER ALL EXTERIOR WALLS
- 061000.A10 SOLID BLOCKING / BRIDGING
- 061000.A15 DIMENSION LUMBER BEAM / HEADER / LEDGER PRE-ENGINEERED WOOD ROOF TRUSS(ES)
- 061753.A1 OPEN WEB WOOD ROOF TRUSS(ES) PARALLEL CHORD @ 24" O.C. SEE STRUCTURAL
- 072100.A1 FOUNDATION INSULATION - 2" EXTRUDED POLYSTYRENE
- 072100.B2 BATT INSULATION, GLASS FIBER, 5-1/2" UNFACED.
- 072100.C1 BLOWN INSULATION, GLASS FIBER, R38
- 072100.C2 INSULATION BAFFLE
- 072700.A1 BUILDING WRAP
- 073113.A1 ASPHALT SHINGLES
- 075423.A1 TPO SINGLE-PLY ROOFING ASSEMBLY
- 081113.A1 HOLLOW METAL DOOR
- 092900.A2 DOUBLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.G.
- 095113.A1 SUSPENDED ACOUSTICAL PANEL CEILING
- 096519.A1 VINYL COMPOSITION TILE FLOORING
- 321313.A1 NEW CONCRETE SIDEWALK, 4" SLAB-ON-GRADE. SEE CIVIL

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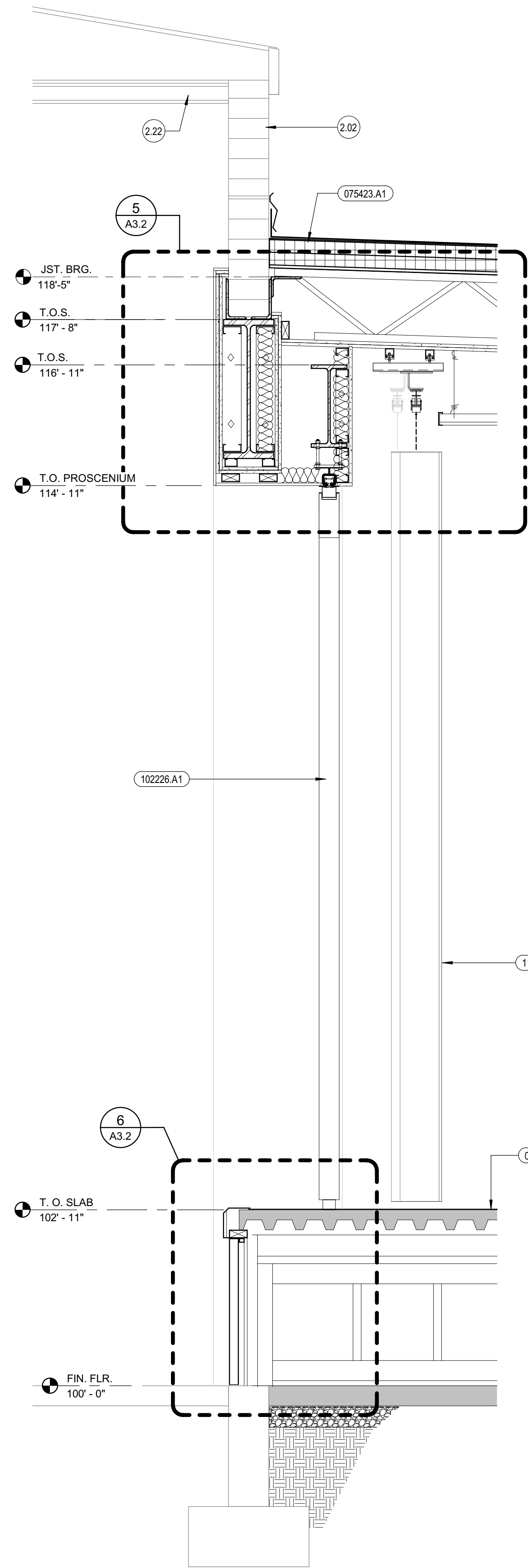
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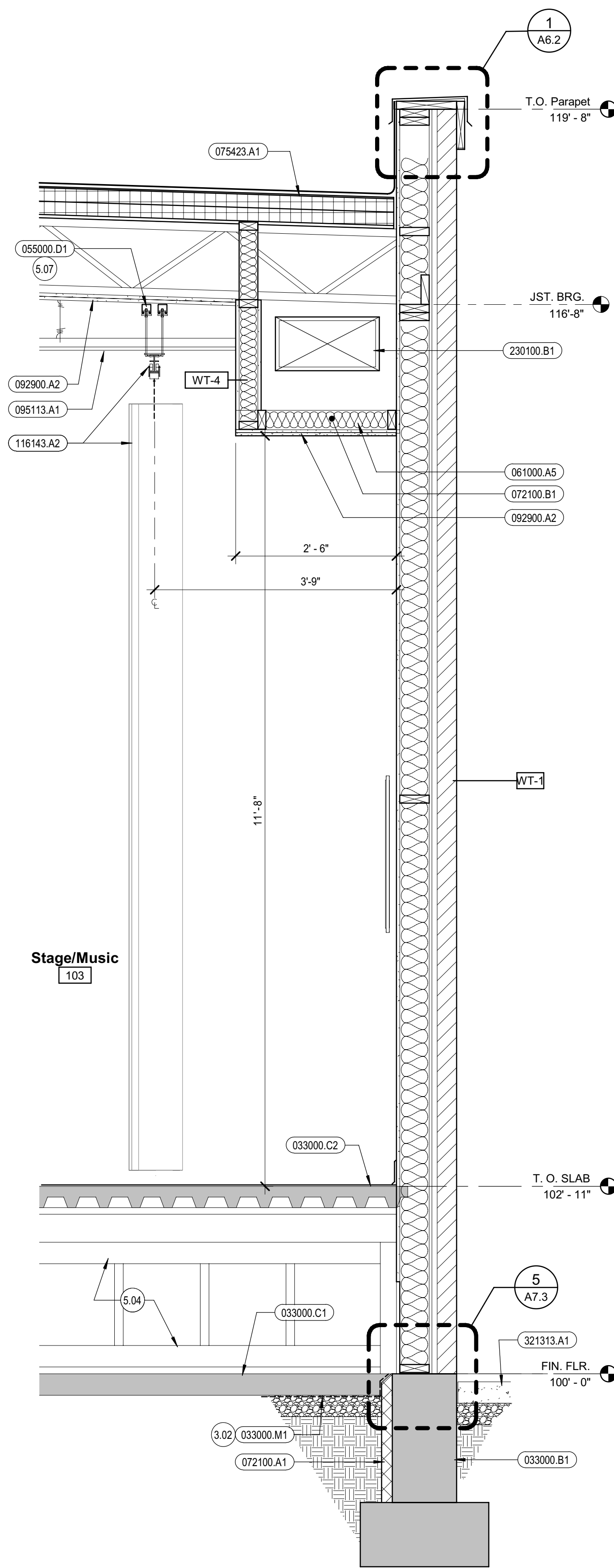
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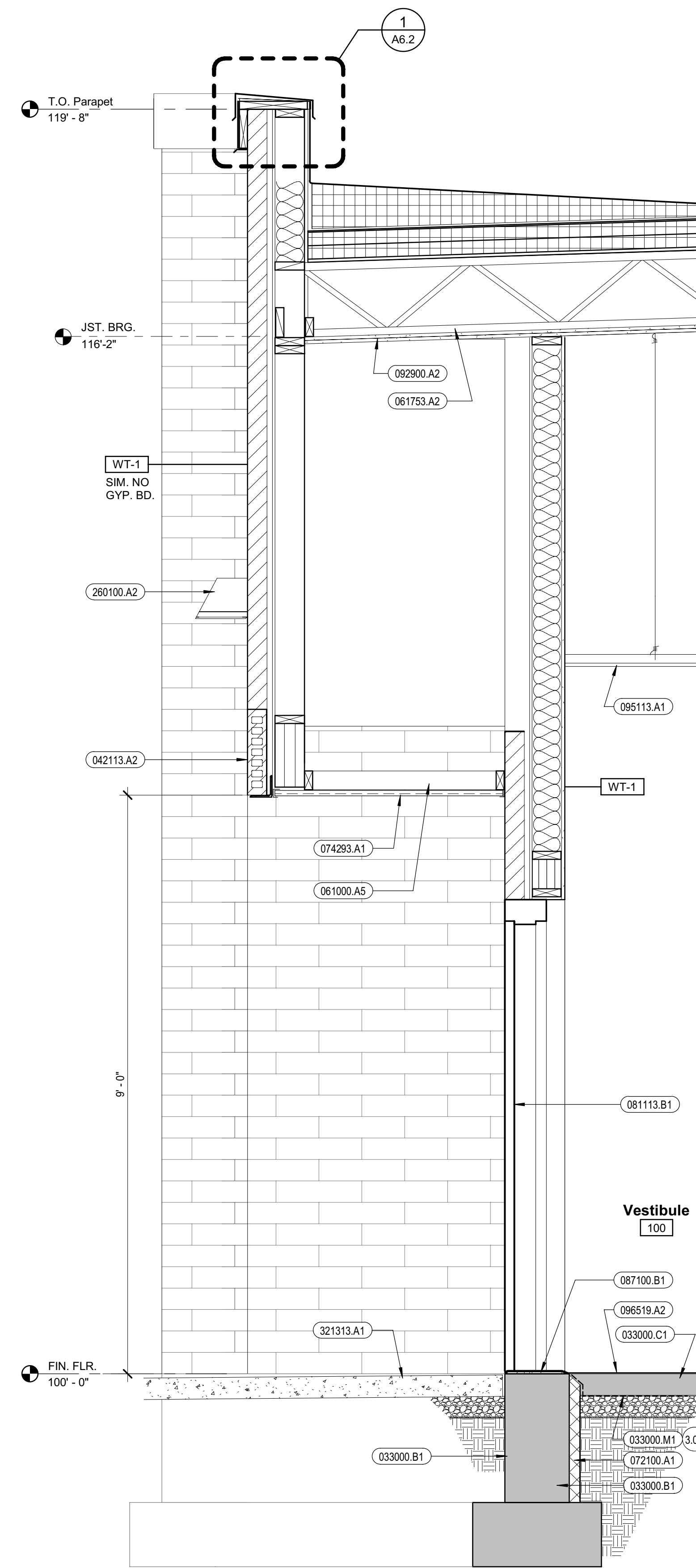
A7.3
WALL SECTIONS



③ Wall Section
3/4" = 1'-0"



② Wall Section
3/4" = 1'-0"



① Wall Section
3/4" = 1'-0"

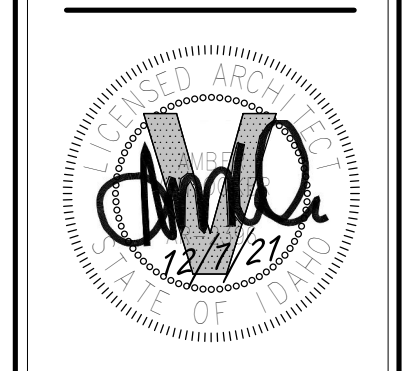
General Notes

Reference Notes

- 2.02 EXISTING SINGLE WYTHE 8X4X16 STRUCTURAL BRICK WALL TO REMAIN.
- 2.22 EXISTING GYMNASIUM ROOF STRUCTURE & ACOUSTIC TILE CEILINGS TO REMAIN.
- 3.02 TURN UP VAPOR RETARDER TO TOP OF FOUNDATION WALL AND SEAL TO INSULATION WITH URETHANE SEALANT.
- 5.04 COLD-FORMED METAL FRAMING. SEE STRUCTURAL.
- 5.07 SEE ENLARGED STAGE FLOOR PLAN FOR CONFIGURATION OF UNI-STRUT CURTAIN SUPPORT SYSTEM.

Keyed Notes

- 033000.B1 CONCRETE FOUNDATION WALL. SEE STRUCTURAL
- 033000.C1 CONCRETE FLOOR SLAB-ON-GRADE, 4". SEE STRUCTURAL
- 033000.C2 CONCRETE SLAB-ABOVE-GRADE ON STEEL PAN. SEE STRUCTURAL
- 033000.M1 VAPOR RETARDER
- 042113.A2 CLAY FACE (VENEER) BRICK, SOLDIER COURSE SLOTTED CHANNEL FRAMING.
- 055000.D1 2X4 SOFFIT FRAMING @ 16" O.C.
- 061000.A5 OPEN WEB WOOD ROOF TRUSS(ES) PARALLEL CHORD @ 24" O.C. SEE STRUCTURAL.
- 072100.A1 FOUNDATION INSULATION - 2" EXTRUDED POLYSTYRENE
- 072100.B1 BATT INSULATION, GLASS FIBER, 3-1/2" UNFACED.
- 074293.A1 METAL SOFFIT PANELS
- 075423.A1 TPO SINGLE-PLY ROOFING ASSEMBLY
- 081113.B1 HOLLOW METAL DOOR FRAME
- 087100.B1 ALUMINUM THRESHOLD
- 092900.A2 DOUBLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
- 095113.A1 SUSPENDED ACOUSTICAL PANEL CEILING
- 096519.A2 LUXURY VINYL TILE FLOORING
- 102226.A1 OPERABLE PARTITION SYSTEM PANELS
- 116143.A1 PROSCENIUM CURTAIN SYSTEM
- 116143.A2 REAR CURTAIN SYSTEM
- 230100.B1 AIR DUCT
- 260100.A2 SURFACE MOUNTED LIGHT FIXTURE (WALL)
- 321313.A1 NEW CONCRETE SIDEWALK. 4" SLAB-ON-GRADE. SEE CIVIL.



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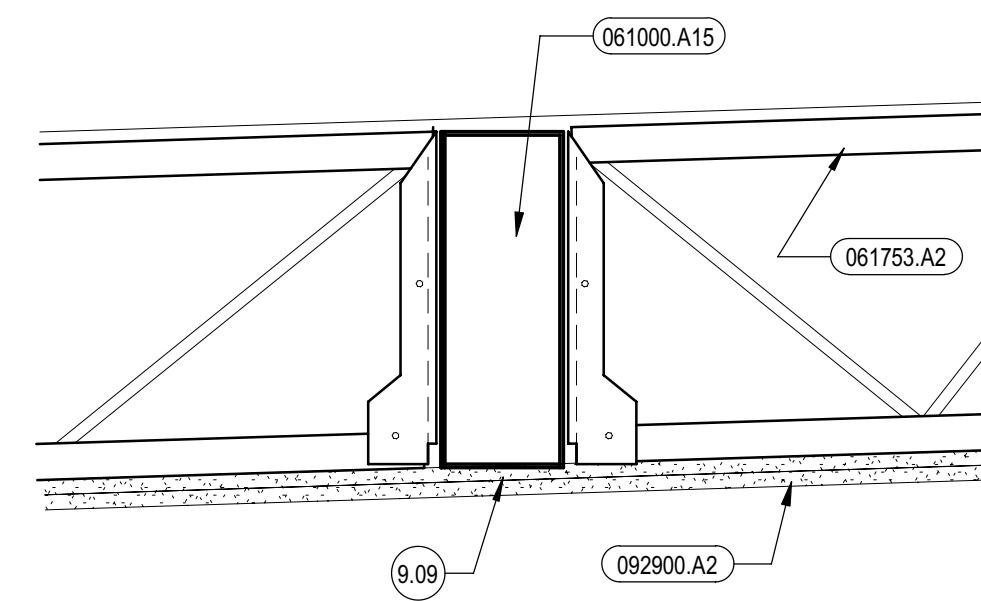
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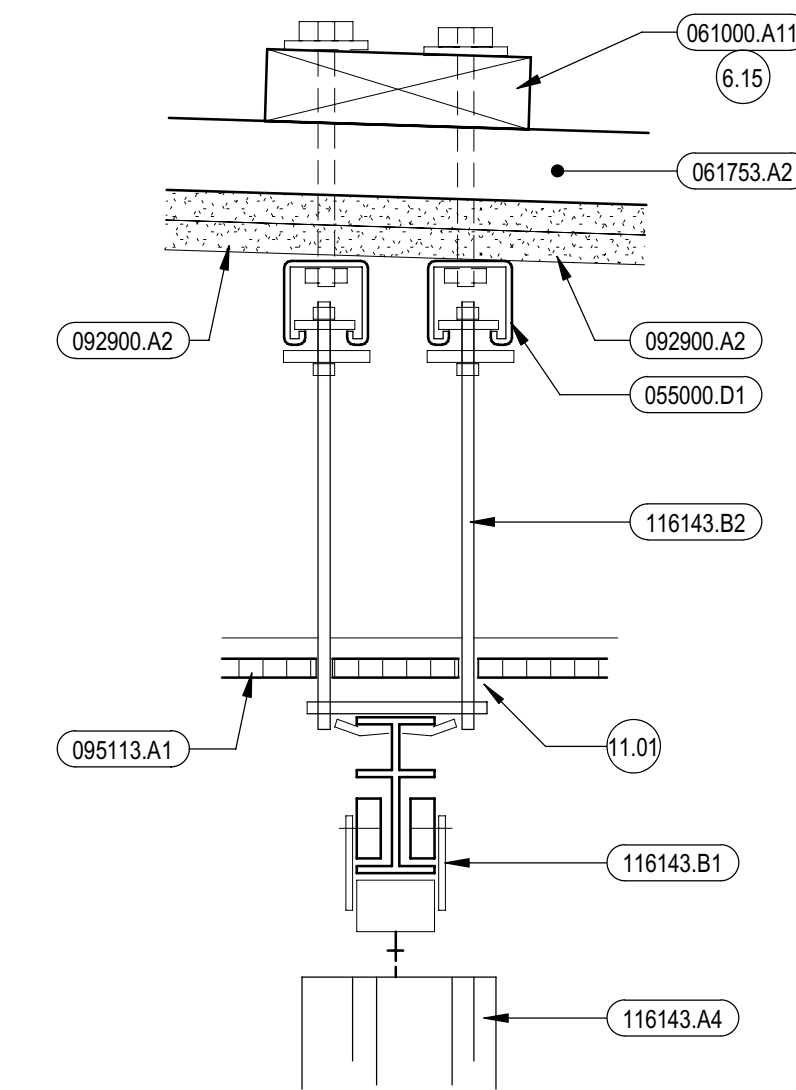
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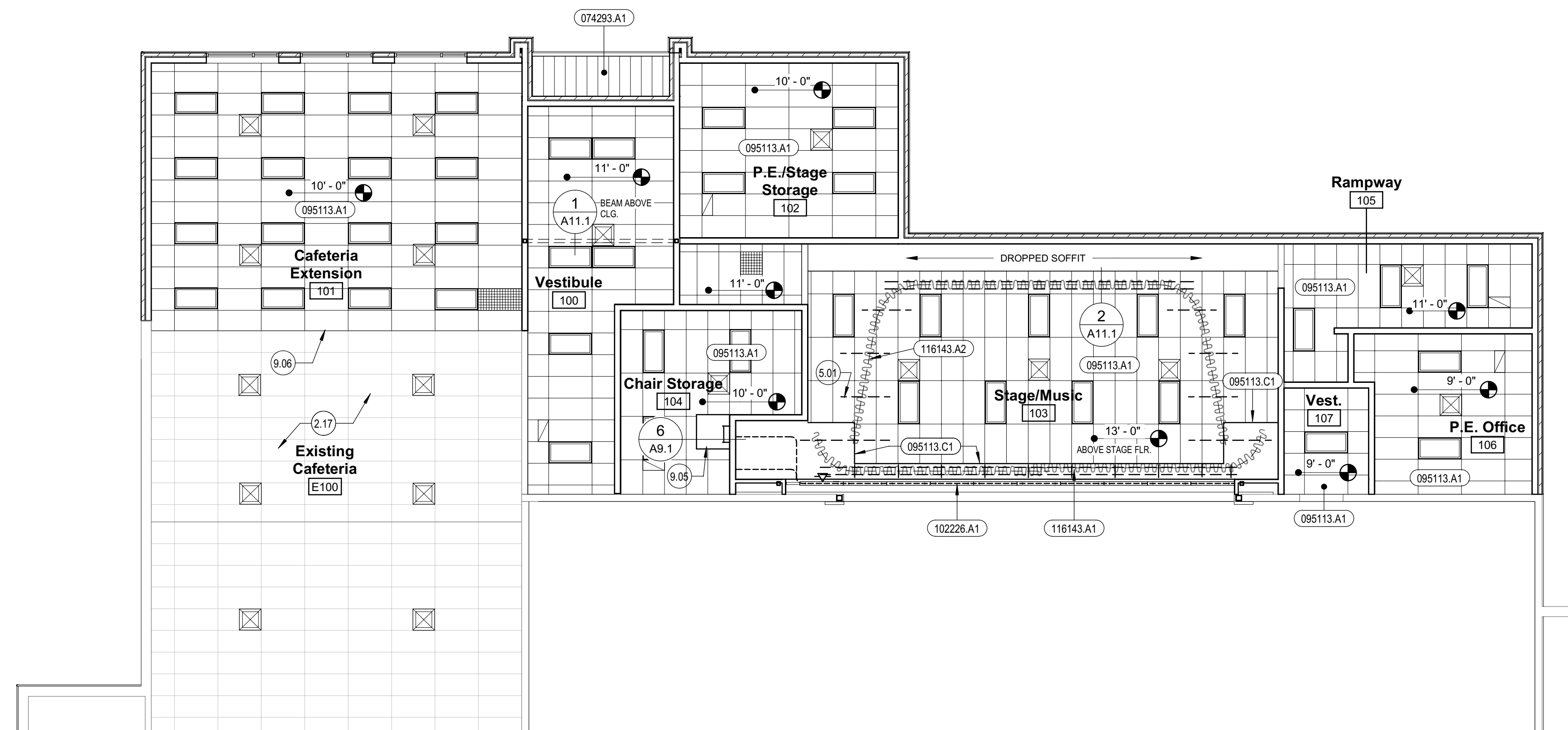
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A7.4
WALL SECTIONS



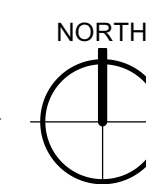
1 Ceiling Detail
1 1/2" = 1'-0"



2 Rear Curtain Track
3" = 1'-0"



Reflected Ceiling Plan
1/8" = 1'-0"



General Notes

1. STAGE CURTAIN & TRACK SYSTEMS MAY VARY. COORDINATE FINAL INSTALLATION OF CEILING AND RELATED COMPONENTS WITH FINAL STAGE EQUIPMENT.
2. MAINTAIN ADEQUATE CLEARANCE FROM SUSPENDED CEILINGS TO FRONT CURTAIN FOR PROPER OPERATION OF CURTAIN.
3. SEE SPECIFICATIONS FOR SUSPENDED ACOUSTIC CEILING INSTALLATION AND PERFORMANCE REQUIREMENTS.
4. COORDINATE CEILINGS WITH ALL MECHANICAL AND ELECTRICAL REQUIREMENTS.

Reference Notes

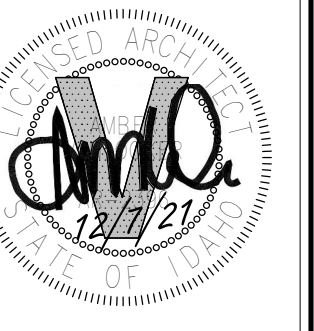
- 2.17 EXISTING SUSPENDED CEILING TO REMAIN.
- 5.01 INDICATES SLOTTED CHANNEL FRAMING AT ON BOTTOM OF DOUBLE LAYER GYP. BD. CEILING EITHER SPANNING MINIMUM THREE JOISTS (OR MORE), OR CONTINUOUS AS INDICATED FOR CURTAIN TRACK MOUNTING. COORDINATE LOCATIONS WITH STAGE EQUIPMENT. SEE STRUCTURAL FOR TRUSS LOADING & BLOCKING CONDITIONS.
- 6.15 CONTINUOUS 2X OVER TOP OF BOTTOM CHORDS, OR SPAN MIN. (3) TRUSSES WHERE TRACK IS PERPENDICULAR TO JOIST. SEE STRUCTURAL.
- 9.05 OPENING IN SUSP. CLG. FOR ROOF LADDER ACCESS.
- 9.06 JOIN NEW & EXISTING SUSPENDED CLGS. WITH NEW MAIN AND CROSS RUNNERS AS REQ'D.
- 9.09 NOTE: MAINTAIN CONTINUITY OF DOUBLE LAYER GYP. BD. ACROSS BOTTOM OF ALL FRAMING
- 11.01 CLEARLY BORE HOLES IN ACOUSTIC PANELS FOR HANGER ROD PENETRATIONS. FIELD VERIFY LOCATIONS AND REQUIREMENTS WITH THE REAR CURTAIN SYSTEM.

Keyed Notes

- | | |
|------------|---|
| 055000.D1 | SLOTTED CHANNEL FRAMING. |
| 061000.A11 | 2X6 FRAMING |
| 061000.A15 | DIMENSION LUMBER BEAM / HEADER / LEDGER |
| 061753.A2 | OPEN WEB WOOD ROOF TRUSS(ES) PARALLEL CHORD @ 24" O.C. SEE STRUCTURAL. |
| 074293.A1 | METAL SOFFIT PANELS |
| 092900.A2 | DOUBLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O. |
| 095113.A1 | SUSPENDED ACOUSTICAL PANEL CEILING |
| 095113.C1 | 2-1/4" STANDARD PERIMETER TRIM- AT ALL OPEN CEILING PERIMETERS. SEE REFLECTED CEILING PLAN. |
| 102226.A1 | OPERABLE PARTITION SYSTEM PANELS |
| 116143.A1 | PROSCENIUM CURTAIN SYSTEM |
| 116143.A2 | REAR CURTAIN SYSTEM |
| 116143.A4 | REAR CURTAIN |
| 116143.B1 | REAR CURTAIN TRACK |
| 116143.B2 | CURTAIN HANGING SYSTEM |



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Revisions	Description	Date
#		

An Addition to
Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
LKV PROJECT #: 2122

DRAWN BY: gpb
CHECKED BY: owo

BID SET

DRAWING NO.:

A11.1

REFLECTED CEILING PLAN

BLD2112-00033

REVIEWED FOR CODE COMPLIANCE

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.

SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

GENERAL NOTES:

- A. CONSTRUCTION DOCUMENTS:
 1. THE CONTRACTOR SHALL REVIEW THE APPROVED CONSTRUCTION DOCUMENTS AND NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
 2. CONTRACTOR IS RESPONSIBLE FOR USING QUALIFIED SUB CONTRACTORS EXPERIENCED IN THIS TYPE OF CONSTRUCTION.
 3. THE CONTRACTOR SHALL FURNISH AND INSTALL EVERYTHING REQUIRED TO PROVIDE A COMPLETE STRUCTURE AS SHOWN HEREIN. IF THERE IS AN OMISSION ON THE PLANS, SUCH OMISSION SHALL NOT BE CONSTRUED TO MEAN THAT THE CONTRACTOR IS NOT REQUIRED TO FURNISH OR PROVIDE EVERYTHING THAT IS NECESSARY TO COMPLETE THE PROJECT TO THE MINIMUM REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND ALL OTHER SPECIFICATIONS, CODES AND STANDARDS NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS.
 4. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY UNIDENTIFIED EXISTING UNDERGROUND UTILITIES ARE DISCOVERED. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS.
 5. THE APPROVED STRUCTURAL DRAWINGS ARE PART OF THE OVERALL CONSTRUCTION DOCUMENT SET AND SHALL BE REFERENCED IN CONJUNCTION WITH OTHER APPROVED CONSTRUCTION DOCUMENTS INCLUDING, BUT NOT LIMITED TO, CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, LANDSCAPE AND GEOTECHNICAL DOCUMENTS.
 - a. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: HORIZONTAL AND VERTICAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL PLANS, SIZE AND LOCATIONS OF DOOR AND WINDOW OPENINGS, SIZE AND LOCATIONS OF ROOF AND FLOOR OPENINGS, SIZE AND LOCATIONS OF INTERIOR NON-BEARING AND NON STRUCTURAL WALLS, CEILING ASSEMBLIES, WALL, FLOOR AND ROOF FINISHES, AND HANDRAILS.
 - b. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: SIZE AND LOCATION OF PIPES, SLEEVES, AND FLOOR/CEILING PENETRATIONS, EQUIPMENT SIZES AND LOCATION, EQUIPMENT CURBS AND MOUNTING BRACKETS OR ANCHORS.
 - c. SEE CIVIL, GEOTECHNICAL, OR LANDSCAPE DRAWINGS AND REPORTS FOR THE FOLLOWING: SITE TOPOGRAPHY, EXCAVATION AND COMPACTION REQUIREMENTS, FINISH GRADE, SLOPE AND DRAINAGE, AND SITE ELEVATION.
 6. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND/OR SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. CONTRACTOR AT HIS/HER OWN EXPENSE SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DESIGN BRACING, SHORING, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
 7. UNDER NO CIRCUMSTANCES CAN STRUCTURAL COMPONENTS BE SUBSTITUTED, OMISSION, SPLICED, OR ALTERED FROM THE APPROVED SET OF CONSTRUCTION DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- B. DIMENSIONS AND NOTATIONS:
 1. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
 2. FOR ANY MISSING DIMENSIONS REFER TO THE ARCHITECTURAL DRAWINGS OR THE DRAWINGS OF APPLICABLE TRADE.
 3. ABBREVIATIONS USED ON THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED TYPICAL ABBREVIATIONS FOR THE INDUSTRY. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY ABBREVIATIONS THAT ARE UNKNOWN TO THE CONTRACTOR.
- C. TYPICAL NOTES AND DETAILS:
 1. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER STANDARD TYPICAL NOTES AND DETAILS.
 2. STANDARD TYPICAL NOTES AND DETAILS ARE TO BE USED WHEN REFERRED TO OR WHEN OTHER MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
 3. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
- D. SHOP DRAWINGS (DEFERRED SUBMITTALS):
 1. SHOP DRAWINGS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER IN A TIMELY FASHION PRIOR TO FABRICATION AND CONSTRUCTION, UNLESS OTHERWISE STATED, A MINIMUM OF 5 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS SHALL BE CONSIDERED AN ACCEPTABLE TIME PERIOD FOR THE STRUCTURAL ENGINEER REVIEW PROCESS.
 2. A MINIMUM OF 5 SETS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. THE STRUCTURAL ENGINEER WILL MAINTAIN (1) SET FOR REFERENCE PURPOSES. THE CONTRACTOR SHALL MAINTAIN (1) SET AT THE JOB SITE DURING THE DURATION OF CONSTRUCTION.
 3. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
 4. SHOP DRAWINGS ARE NOT A PART OF THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER REVIEW DOES NOT GIVE PERMISSION TO DEVIATE FROM THE APPROVED CONSTRUCTION DOCUMENTS. WHERE THE SHOP DRAWINGS AND THE CONSTRUCTION DOCUMENTS DIFFER, THE MORE STRICT OF THE TWO SHALL GOVERN UNLESS WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER PERMITS OTHERWISE.
- E. INSPECTIONS, SPECIAL INSPECTIONS, AND SITE VISITS (STRUCTURAL OBSERVATIONS):
 1. INSPECTIONS BY THE BUILDING OFFICIAL ARE REQUIRED FOR CONSTRUCTION WORK FOR WHICH A PERMIT IS REQUIRED PER SECTION 110 OF THE IBC. CONTRACTOR IS REQUIRED TO COORDINATE AND SCHEDULE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL. INSPECTIONS PRESUMING TO GIVE AUTHORITY TO VIOLATE OR CANCEL PROVISIONS OF THE IBC OR OF OTHER JURISDICTIONS OF THE JURISDICTION SHALL NOT BE VALID.
 2. SPECIAL INSPECTIONS ARE IN ADDITION TO, AND DO NOT REPLACE, THE INSPECTIONS BY THE BUILDING OFFICIAL PER CHAPTER 17 OF THE IBC. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED PERSON TO INSPECT AS REQUIRED ON THESE DOCUMENTS THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
 3. SITE VISITS OR STRUCTURAL OBSERVATIONS BY THE STRUCTURAL ENGINEER DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF INSPECTIONS OR SPECIAL INSPECTIONS PER SECTION 110 AND CHAPTER 17 OF THE IBC. SITE VISITS ARE NOT CONTINUOUS OR DETAILED. SITE VISITS DO NOT VALIDATE CONTRACTORS PERFORMANCE, MEANS, OR METHODS. SITE VISITS ARE FOR VISUAL OBSERVATION FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
- F. CODE REQUIREMENTS:

ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

 1. 2018 INTERNATIONAL BUILDING CODE (IBC)
 2. ANY OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF IDAHO.
 3. SPECIFICATIONS, CODES AND STANDARDS NOTED SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
 4. CONTRACTOR SHALL BE PROPERLY REGISTERED IN THE STATE OF IDAHO PER IDAHO STATE LAW.
 5. ALL STRUCTURAL MATERIAL MUST HAVE CURRENT ICC-ES REPORTS AVAILABLE UPON REQUEST TO PROVE CODE APPROVAL & INDUSTRY TOLERANCES.

DESIGN CRITERIA:

- A. 2018 INTERNATIONAL BUILDING CODE (IBC).
 1. RISK CATEGORY: III
 2. NATURE OF OCCUPANCY: ASSEMBLY
- B. DESIGN LOADS:
 1. ROOF:
 - a. LIVE LOAD = 30 PSF (SNOW)
 - b. DEAD LOAD = 20 PSF
 2. PRE MANUFACTURED TRUSS- TOP CHORD:
 - a. LIVE LOAD = 30 PSF
 - b. DEAD LOAD = 10 PSF
 - c. WIND UPLIFT = 20 PSF (NET / ASD)
 3. PRE MANUFACTURED TRUSS- BOTTOM CHORD:
 - a. LIVE LOAD = 10 PSF
 - b. DEAD LOAD = 10 PSF
 - c. LIVE LOADS ARE NOT CONCURRENT
 4. FLOOR- LIVE LOADS:
 - a. STAGE = 150 PSF
 - b. FLOOR- DEAD LOADS:
 - a. STAGE = 50 PSF
- C. IBC SEISMIC DESIGN:
 1. SEISMIC DESIGN CATEGORY: B
 2. IMPORTANCE FACTOR I_e = 1.25
 3. SOIL SITE CLASS: D-DEFAULT
 4. SEISMIC COEFFICIENTS: S_{DS} = 0.185 S_{DI} = 0.128
 5. RESPONSE MODIFICATION: R = 2.0

SEISMIC FORCE RESISTING SYSTEM:
ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR: V = 0.081W
- D. IBC WIND LOAD:
 1. BASIC DESIGN WIND SPEED = 110 MPH
 2. EXPOSURE = C
 3. ANALYSIS METHOD= SIMPLE DIAPHRAGM
 4. DESIGN BASE PRESSURE (ASD): P = -20 PSF
- E. FOUNDATIONS:
 - A. MAXIMUM ALLOWABLE FOUNDATION SOIL BEARING PRESSURE:
 1. 1500 PSF (DEAD + LIVE LOAD)
 2. 2000 PSF (GRAVITY + LATERAL LOAD)
 - B. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 24 INCHES MINIMUM BELOW ADJACENT FINISHED GRADE.
 - C. THE INTERIOR FOOTINGS SHALL BE 12 INCHES MINIMUM BELOW FINISH FLOOR, U.N.O.
 - D. STRUCTURAL WALLS SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. BRACE WALLS AND PIERS AS REQUIRED DURING BACKFILLING OPERATIONS.
 - E. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE THE CONSTRUCTION DOCUMENTS, INCLUDING THE STRUCTURAL DRAWINGS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.
- F. DEFINITIONS:
 1. STRUCTURAL WALLS - ANY LOAD BEARING WALL, SHEAR WALL, AND ANY WALL THAT REQUIRES A FOOTING.
- G. CONCRETE:
 - A. REFERENCE STANDARDS:
 1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301
 2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE
 3. CONCRETE MIX DESIGN SHALL BE ESTABLISHED IN ACCORDANCE WITH CHAPTERS 19 AND 26 OF ACI 318
 4. USE LATEST EDITION OF ACI 308R WHEN CONCRETING DURING COLD WEATHER
 - B. DEFERRED SUBMITTALS:
 1. SUPPLY PRODUCT DATA FOR PROPRIETARY MATERIALS AND ITEMS, INCLUDING REINFORCEMENT AND FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, JOINT SYSTEMS, CURING COMPOUNDS AND OTHERS.
 2. SHOP DRAWINGS FOR REINFORCEMENT DETAILING, FABRICATING, FOR BENDING, AND PLACING OF CONCRETE REINFORCEMENT SHALL COMPLY WITH ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT SHALL BE SHOWN. INCLUDE SPECIAL REINFORCING REQUIRED FOR OPENINGS THROUGH CONCRETE STRUCTURES.
 - C. FORMWORK AND FINISHES:
 1. FORMWORK DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN FORMWORK TO SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.
 2. FINAL SLAB SURFACES SHALL RECEIVE A MACHINED STEEL TROWEL FINISH.
 3. ANY PROJECTING CORNERS OF COLUMNS, BEAMS, WALLS, PEDESTALS, ETC SHALL BE FORMED WITH A 3/4 INCH CHAMFER.
 4. DRY PACK, OR USE NON-SHRINK GROUT, UNDER BASE PLATES, BEARING PLATES, OR SILL PLATES AS REQUIRED FOR A LEVEL AND UNIFORM BEARING SURFACE. MINIMUM GROUT STRENGTH SHALL BE f_c = 7000 PSI, U.N.O.
 5. SEPARATE SLABS-ON-GRADE FROM VERTICAL SURFACES WITH JOINT FILLER.
 - D. MIX DESIGN, STRENGTH, AND ADMIXTURES:
 1. 28-DAY COMPRESSIVE STRENGTHS (f_c):
 - a. FOUNDATION STEM WALLS = 3500 PSI
 - b. FOOTINGS = 3500 PSI
 - c. INTERIOR SLABS-ON-GRADE = 4000 PSI
 2. CEMENT II OR III PER ASTM C-150
 3. MAXIMUM SLUMP:
 - a. PRIOR TO ADDITION OF WATER-REDUCING ADMIXTURE = 4"
 - b. WITH ADDITION OF WATER-REDUCING ADMIXTURE= 10"
 4. MAXIMUM SIZE COARSE AGGREGATE: 3/4 INCHES (PER ASTM C-33)
 5. APPROVED ADMIXTURES:
 - a. FLYASH PER ASTM C-618
 - b. AIR ENTRAINING PER ASTM C-260
 - c. WATER REDUCING PER ASTM C-494
 - E. REINFORCEMENT:
 1. REINFORCEMENT FOR CONCRETE:
 - a. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WEDGED TOGETHER IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE"
 - b. DEFORMED BARS - ASTM A615, GRADE 60
 - c. WELDED WIRE REINFORCEMENT (WWR):
 - PLAIN WIRE - ASTM A1064
 - DEFORMED WIRE - ASTM A1064
 - USE FLAT MATS ONLY. NO ROLLED WWR IS PERMITTED.
 2. MINIMUM REINFORCEMENT LAP = 40 BAR DIAMETERS
 3. MINIMUM WWR LAP = GRID SPACING PLUS 2 INCHES
 4. MINIMUM CONCRETE COVER OVER REINFORCEMENT:
 - a. CONCRETE CAST AGAINST EARTH = 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER = 1 1/2"
 - c. CONCRETE NOT EXPOSED TO EARTH OR WEATHER = 3/4"
 5. SLAB-ON-GRADE REINFORCEMENT SHALL BE PLACED AT THE MID-DEPTH OF THE SLAB.

F. COORDINATION:

- 1. COORDINATE ALL UNDER-SLAB MATERIAL SUCH AS VAPOR BARRIER, INSULATION, AND SUB-BASE WITH ARCHITECTURAL AND GEOTECHNICAL CONSTRUCTION DOCUMENTS. WHERE DOCUMENTS CONFLICT OR DIFFER, THE MORE STRICT OF THE TWO SHALL GOVERN UNLESS WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER PERMITS OTHERWISE.
- 2. COORDINATE CONCRETE SURFACE FINISHING WITH ARCHITECTURAL FINISH MATERIALS.
- 3. REPAIR OR REPLACE DEFECTIVE CONCRETE AS DIRECTED BY THE ARCHITECT, ENGINEER, OR TESTING AGENCY.
- 4. COORDINATE ALL JOINT SPACING, LAYOUT, FILLER AND SEALANTS
- 5. COORDINATE EVERYTHING THAT APPLIES TO ANY FINISH SURFACES THAT REQUIRE MOCK-UPS AND ACCEPTANCE PRIOR TO CONSTRUCTION.
- 6. COORDINATE WITH REQUIRED INSPECTORS, SPECIAL INSPECTORS, AND STRUCTURAL OBSERVERS FOR FIELD QUALITY CONTROL ITEMS AND SCHEDULE NOTIFICATIONS IN A TIMELY FASHION.
- G. DEFINITIONS:
 1. PERFORMANCE DESIGN - A SET OF INSTRUCTIONS THAT OUTLINES THE FUNCTIONAL REQUIREMENTS FOR HARDENED CONCRETE DEPENDING ON THE APPLICATION. PERFORMANCE DESIGN DOES NOT INCLUDE REQUIREMENTS FOR MEANS AND METHODS AND DOES NOT PROVIDE LIMITATIONS ON THE INGREDIENTS OR PROPORTIONS OF THE CONCRETE MIXTURE. SUBMITTALS FOR PERFORMANCE DESIGN WOULD NOT BE A DETAILS LIST OF MIXTURE INGREDIENTS BUT RATHER A CERTIFICATION THAT THE MIX WILL MEET THE SPECIFICATION REQUIREMENTS, INCLUDING PRE-QUALIFICATION TEST RESULTS.
 2. DURABILITY DESIGN - DURABILITY IS THE ABILITY OF CONCRETE TO RESIST WEATHERING ACTION, CHEMICAL ATTACK, AND ABRASION WHILE MAINTAINING ITS DESIRED ENGINEERING PROPERTIES.
 3. STRENGTH DESIGN- BASED ON THE ULTIMATE COMPRESSIVE STRENGTH OF THE CONCRETE NEEDED TO RESIST THE CALCULATED DESIGN LOADS. ANY ADDITIONAL STRENGTH THAT MAY BE PRESENT DUE TO STEEL REINFORCING IS NOT PERMITTED TO BE INCLUDED IN THE CONCRETE STRENGTH DESIGN.
- H. WOOD:
 - A. REFERENCE STANDARDS AND GOVERNING AGENCIES:
 1. NDS FOR WOOD CONSTRUCTION
 2. APA PANEL DESIGN SPECIFICATION
 3. AWWA U1 - USE CATEGORY SYSTEM. USER SPECIFICATION FOR TREATED WOOD
 4. TPI 1 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION
 5. WWA - WESTERN WOOD PRODUCTS ASSOCIATION
 - B. DEFERRED SUBMITTALS:
 1. ENGINEERED WOOD PRODUCTS:
 - a. ANY ALTERNATE PROPRIETARY FRAMING SYSTEM(S) SHALL BE OF THE SAME DEPTH AND LOAD CARRYING CAPACITY AS THE TRUS-JOIST SYSTEM(S) SHOWN ON THE DRAWINGS. ICC REPORTS FOR THE ALTERNATE PROPRIETARY FRAMING SYSTEM(S) SHALL BE SUBMITTED SHOWING TESTING APPROVAL AND MATERIAL STRENGTH EQUIVALENCE.
 - b. ALL SUBMITTED ENGINEERED WOOD PRODUCTS CALCULATIONS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF IDAHO.
 2. FABRICATED WOOD TRUSSES:
 - a. ALL ROOF TRUSSES SHALL BE DESIGNED, STAMPED, AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF IDAHO.
 - b. TRUSS MANUFACTURER SHALL PROVIDE PROOF OF APPROVED THIRD PARTY INSPECTION AS REQUIRED BY THE 2018 IBC, SECTION 1704.2.5.
 - c. SUBMIT SHOP DRAWINGS OF PRE MANUFACTURED WOOD TRUSS LAYOUT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. TRUSS DESIGN DRAWINGS AND CALCULATIONS SHALL CONFORM TO THE REQUIREMENTS FROM SECTION 2303.4 OF THE IBC.
 - C. CARPENTRY
 1. WOOD FRAMING MEMBERS SHALL HAVE THE FOLLOWING GRADES, OR BETTER, UNLESS NOTED OTHERWISE (U.N.O.):
 - a. BLOCKING: DOUGLAS FIR LARCH NO. 2, OR BETTER
 - b. BRIDGING: DOUGLAS FIR LARCH NO. 2, OR BETTER
 - c. STUDS: DOUGLAS FIR LARCH NO. 2, OR BETTER
 - d. BEAMS/HEADERS/JOISTS: DOUGLAS FIR LARCH NO. 2, OR BETTER
 - e. POSTS/BUILT-UP COLUMNS: DOUGLAS FIR LARCH NO. 2, OR BETTER
 - f. TOP AND BOTTOM PLATES: DOUGLAS FIR LARCH NO. 2, OR BETTER
 2. MAXIMUM MOISTURE CONTENT OF ALL LUMBER AT THE TIME OF CLOSURE SHALL BE 19%.
 3. SPLICING OF WOOD MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER.
 4. HOLES MAY BE DRILLED IN JOIST/BEAM IF SPECIFICALLY INDICATED ON THESE DRAWINGS. ANY OTHER HOLES OR NOTCHES ARE NOT ALLOWED.
 5. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR PLYWOOD.
 - D. ENGINEERED OR COMPOSITE WOOD PRODUCTS
 1. ALL ENGINEERED WOOD PRODUCTS SHALL BE TRUS-JOIST PRODUCTS OR APPROVED EQUAL.
 2. ALL ENGINEERED WOOD PRODUCTS SHALL BE DESIGNED FOR THE LOADS SPECIFIED AND SHALL CONFORM TO THE LATEST SPECIFICATIONS.
 3. ALL ENGINEERED WOOD PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 4. SPLICING OF ENGINEERED WOOD MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER.
 - E. MANUFACTURED OR FABRICATED WOOD TRUSSES
 1. ALL TRUSS LOADING SHALL SATISFY DEAD AND LIVE LOADS SHOWN UNDER DESIGN LOADS IN THE DESIGN CRITERIA, ABOVE.
 2. MEMBER PROPERTIES: NO EXCEPTIONS OR SUBSTITUTIONS WITHOUT A WRITTEN REQUEST PRIOR TO FABRICATION.
 - a. CHORDS: DOUGLAS FIR LARCH NO. 2, OR BETTER
 - b. WEBS: DOUGLAS FIR LARCH NO. 2, OR BETTER, OR STUD GRADE
 - c. UTILITY, CONSTRUCTION, OR #3 GRADE WOOD IS NOT ACCEPTABLE FOR ANY TRUSS MEMBER
 3. EACH TRUSS SHALL BE MARKED WITH THE FOLLOWING INFORMATION:
 - a. MANUFACTURER'S IDENTIFICATION
 - b. DESIGN LOAD(S)
 - c. TRUSS SPACING AND CONFIGURATION.
 4. ALL TRUSS BLOCKING PANELS SHALL BE DESIGNED AND PROVIDED BY THE TRUSS MANUFACTURER AND CONSTRUCTED WITH APPROVED PLATES.
 5. TRUSS PROFILES SHOWN ARE REPRESENTATIONS OF POSSIBLE CONFIGURATIONS OF WEB LOCATIONS, MEMBER SIZES, AND NUMBER OF PLAYS.
 6. TRUSS MANUFACTURER SHALL VERIFY ALL TRUSS DIMENSIONS, ACCOUNTING FOR TOLERANCES, CONNECTIONS AND SPLICE REQUIREMENTS.
 7. TRUSS ORIENTATION DIRECTLY IMPACTS THE STRUCTURAL INTEGRITY OF THE FOUNDATION, AND WALL SYSTEM DESIGNS. ANY MODIFICATIONS TO THE TRUSS ORIENTATION MUST BE MADE IN WRITING AND SUBMITTED TO THE CONTRACTOR, AND ENGINEER PRIOR TO THE CONSTRUCTION OF THE ABOVE SYSTEMS.
 8. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR COORDINATION BETWEEN STRUCTURAL, ARCHITECTURAL, AND MECHANICAL LAYOUT REQUIREMENTS PRIOR TO FABRICATION.
 - F. PANEL SHEATHING:
 1. STRUCTURAL WOOD SHEATHING AS SPECIFIED ON THESE DRAWINGS AT ROOF/FLOOR DIAPHRAGMS, SHEAR WALLS, AND BUILT-UP BLOCKING LOCATIONS SHALL BE STAMPED WITH THE SPECIFIED APA RATING.
 2. STRUCTURAL WOOD SHEATHING MAY BE EITHER PLYWOOD OR ORIENTED STRAND BOARD (OSB) AS LONG AS THE PANEL MEETS OR EXCEEDS THE CRITERIA LISTED BELOW.

- 3. ROOF SHEATHING SHALL BE, U.N.O.:
 - a. THICKNESS: PER PLAN
 - b. NAILING: PER PLAN
 - c. PLY CLIPS AT ALL UNSUPPORTED EDGES
 - d. MAXIMUM DISTANCE BETWEEN SUPPORT MEMBERS: 24"
- 4. WALL SHEATHING SHALL BE, U.N.O.:
 - a. THICKNESS: PER PLAN
 - b. NAILING: PER PLAN
 - c. BLOCKING AT ALL UNSUPPORTED EDGES
 - d. MAXIMUM DISTANCE BETWEEN SUPPORT MEMBERS: 16" U.N.O.
- G. ACCESSORIES AND FASTENERS:
 1. ALL WOOD CONNECTORS SHALL BE SIMPSON STRONG-TIE OR APPROVED EQUAL AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - a. POST TO CONCRETE CONNECTIONS SHALL BE SIMPSON 'AB' POST BASES, U.N.O.
 - b. POST TO BEAM CONNECTIONS SHALL BE SIMPSON 'LPCZ' POST CAPS, U.N.O.
 - c. SAWN LUMBER JOIST HANGERS SHALL BE SIMPSON 'LU' HANGERS, U.N.O.
 - d. I-JOIST HANGERS SHALL BE SIMPSON 'ITS' HANGERS, U.N.O.
 2. NAILING SHALL BE IN ACCORDANCE WITH THE 2018 IBC TABLE 2304.10.1, UNLESS NOTED OTHERWISE.
 3. NAILS SHALL BE COMMON WIRE NAILS (EXCEPT 16d NAILS MAY BE BOX WIRE NAILS).
 4. METAL FINISH MATERIAL:
 - a. HIGH HUMIDITY AND PRESERVATIVE TREATED WOOD LOCATIONS: HOT DIPPED GALVANIZED STEEL PER ASTM A 153
 - b. INTERIOR AND DRY LOCATIONS: STANDARD PAINTED OR ZINC GALVANIZED COATING.

- H. DEFINITIONS:
 1. APA RATED SHEATHING: A COMMON TRADE NAME THAT APPLIES TO A GRADE OR PANEL FOR USE AS SUBFLOORING, WALL SHEATHING, AND ROOF SHEATHING. ADDITIONAL INFORMATION THAT MAY BE PRESENT ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
 2. APA STRUCTURAL 1 RATED SHEATHING: A SPECIAL SHEATHING GRADE DESIGNED FOR USE WHERE SHEAR AND/OR CROSS PANEL STRENGTH PROPERTIES ARE OF MAXIMUM IMPORTANCE. PANELS ARE MADE WITH RESIN ADHESIVES THAT PROVIDE A MOISTURE RESISTANT BOND AND ARE DESIGNATED AS: EXPOSURE 1. PANELS CAN BE MANUFACTURED AS EITHER: PLYWOOD OR OSB.
- I. MASONRY:
 - A. REFERENCE STANDARDS:
 1. ACI 530 - SPECIFICATION FOR MASONRY STRUCTURES
 - B. DEFERRED SUBMITTALS:
 1. SUPPLY PRODUCT DATA FOR PROPRIETARY MATERIALS AND ITEMS INCLUDING REINFORCEMENT AND FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, JOINT SYSTEMS, CURING COMPOUNDS AND OTHERS.
 2. SHOP DRAWINGS FOR TYPICAL MASONRY WALL REINFORCEMENT DETAILING, FABRICATING, BENDING, AND PLACING SHALL COMPLY WITH THE LATEST EDITION OF THE ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
 3. SHOP DRAWINGS FOR MASONRY WALL OPENING AND CORNER BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF MASONRY REINFORCEMENT SHALL BE SHOWN.
 - C. MORTAR AND GROUT:
 1. WALLS SHALL BE:
 - a. SOLID GROUTED - ALL CELLS
 - b. PARTIALLY GROUTED - GROUT ALL REINFORCED CELLS
 2. MORTAR:
 - a. ASTM C270 FOR JOB MIXED MORTAR
 - b. TYPE S, COMPRESSIVE STRENGTH = 2000 PSI
 3. GROUT:
 - a. ASTM C476, 28-DAY COMPRESSIVE STRENGTH = 2000 PSI
 - b. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS = 60"
 4. GROUT SHALL BE A WORKABLE MIXTURE SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED.
 5. GROUT SHALL BE CONSOLIDATED BY PUDDLING OR MECHANICAL VIBRATION DURING PLACING AND SHALL BE RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST.
 6. GROUTING OF ANY WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS OF MORE THAN ONE HOUR.
 - D. REINFORCEMENT AND ANCHORAGE:
 1. WALL REINFORCEMENT:
 - a. ASTM A615, DEFORMED, GRADE 60.
 - b. f_{rs} = 32,000 PSI
 - c. MINIMUM REINFORCEMENT LAP = 48 BAR DIAMETERS, U.N.O.
 2. ALL REINFORCING SHALL BE PLACED PRIOR TO GROUTING.
 3. VERTICAL BARS SHALL BE HELD IN POSITION AT THEIR TOP AND BOTTOM AND AT INTERVALS OF NOT MORE THAN 20 BAR DIAMETERS.
 - a. NO "STABBING - IN" OF REINFORCING IS PERMITTED AFTER GROUT HAS BEEN PLACED.
 4. TYPICAL VERTICAL REINFORCEMENT, U.N.O
 - a. 8 INCH CMU WALLS:
 - (1) #5 @ 32" - FULL HEIGHT AT ALL WALLS, UNO
 - (2) #5 @ EACH END OF EACH WALL
 - (2) #5 @ EACH SIDE OF EACH WALL OPENING JAM (CONT. FROM FOOTING TO TOP OF WALL, LAP WALL REINFORCING WITH FOOTING DOWEL AS REQUIRED) U.N.O.
 - b. (1) #5 TOP & BOTTOM @ EA WALL OPENING (EXTEND REINFORCING 24 BEYOND EACH SIDE OF OPENING, U.N.O.)
 - PROVIDE (1) #5 HORIZONTAL CORNER BAR AT ALL WALL CORNERS AT ALL BOND BEAM LEVELS, LAP CORNER BAR WITH TYPICAL HORIZONTAL REINFORCEMENT, AND DEVELOP 48 BAR DIAMETERS IN BOTH DIRECTIONS FROM CORNER.

- E. BRICK UNITS:
 1. BRICK CLAY VENEER: ASTM C216 OR C652, GRADE SW, TYPE FBX.
 2. MORTAR: ASTM C270, TYPE S, MINIMUM COMPRESSIVE STRENGTH OF 8000 PSI AT 28 DAYS.
 3. BRICK VENEER TIES: USE "DUR-O-WAL-D/A213 HOT DIPPED GALVANIZED W/ 3/16" WIRE RITILE, INSTAL @ 4" VENEERS SPACED @ 16" O.C. MAX VERTICAL AND 24" O.C. MAX HORIZONTAL. USE (2) D/A807 CO-POLYMER COATED SCREWS OR (2) 10d COATED NAILS PER ANCHOR.
- F. COORDINATION:
 1. COORDINATE COURSING PATTERNS AND TOOLED JOINTS WITH ARCHITECTURAL.
 2. COORDINATE LOCATIONS OF CONTROL JOINTS WITH OPENINGS, WALL CORNERS, AND ARCHITECTURAL.
 3. COORDINATE MASONRY REINFORCEMENT LAPS WITH FOUNDATION REINFORCEMENT.
 4. COORDINATE MASONRY REINFORCEMENT ANCHORAGE WITH FLOOR/ROOF ANCHORAGE.
 5. COORDINATE ANY AND ALL MOCK-UP PANELS REQUIRED PER ARCHITECTURAL.
- G. DEFINITIONS:
 1. VENEER - RELATIVELY THIN MASONRY THAT IS EITHER ADHERED OR ANCHORED TO THE MAIN STRUCTURAL WALL SYSTEM. VENEER IS PART OF THE WALL FINISH SYSTEM BUT IS NOT CONSIDERED TO ADD LOAD RESISTING CAPACITY TO THE STRUCTURAL WALL.

- STEEL:**
- A. REFERENCE STANDARDS:
 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC MANUAL AND SPECIFICATIONS.
 2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- B. DEFERRED SUBMITTALS:
 1. SUBMIT SHOP DRAWINGS OF STRUCTURAL STEEL LAYOUT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.
- C. MATERIALS:
 1. PLATES, ANGLES AND BARS: ASTM A36.
 2. W SHAPES AND TEES: ASTM A992.
 3. TUBE-SHAPES: ASTM A500, GRADE B.
 4. PIPE: ASTM A53, GRADE B.
 5. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- D. BOLTS AND STUDS:
 1. BOLTS:
 - a. STEEL-TO-CONCRETE: A307 OR F1554
 - b. STEEL-TO-STEEL: A325N BEARING CONDITION "SNUG-TIGHT"
 - c. STUD CONNECTORS: ASTM A 108
- E. WELDS:
 1. PROVIDE E70XX ELECTRODES FOR ALL WELDS, IN ACCORDANCE WITH AWS D1.4.
- F. METAL DECK:
 1. FLOOR DECK: VULCRAFT 1 1/2" INCH - 18 GAUGE TYPE B FORMLOCK COMPOSITE STEEL DECK @ 3-SPAN CONDITION W/ 2 1/2" DEEP NORMAL WEIGHT CONCRETE (4" TOTAL DEPTH).
 - PROVIDE (7) SIMPSON XM #12 SCREWS PER PANEL & SIMPSON XM #12 SCREWS @ 12" O.C. AT EACH SUPPORT AND TOP SEAM BUTTON PUNCH SIDE UP @ 18" O.C. MAXIMUM, PER MANUFACTURER'S INSTRUCTIONS.
 2. SHEET METAL DECK ACCESSORIES: METAL CLOSURE STRIPS, WET CONCRETE STOPS, AND COVER PLATES TO BE 22 GAUGE THICK SHEET STEEL, OF PROFILE AND SIZE INDICATED; FINISHED SAME AS DECK.
 3. REINFORCE OPENING IN DECKING WITH ADDITIONAL METAL AND CLOSURE PIECES AS REQUIRED FOR STRENGTH, CONTINUITY OF THE DECKING AND SUPPORT OF OTHER WORK SHOWN, WHERE OPENINGS ARE FROM 15 INCHES WIDE TO 30 INCHES WIDE, AND ARE NOT SUPPORTED BY STRUCTURAL MEMBERS, WELD A STEEL L4x4x1/4 TO THE UNDERSIDE OF DECK AT RIGHT ANGLES TO THE RIBS; EXTEND THE ANGLES 3 RIBS BEYOND EACH SIDE OF THE OPENING AND WELD TO BOTTOM SURFACE OF EACH RIB. REINFORCE SIDE OF OPENING PARALLEL TO DECK RIBS WITH 2 INCH WIDE, 20 GAUGE STEEL SHEET PLACED ON THE TOP SURFACE OF DECKING, WELDED TO DECKING AT EACH CORNER AT 12" O.C. MAXIMUM ALONG EACH SIDE.

SHEET INDEX


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S6.0	TYPICAL FRAMING DETAILS
S6.1	FRAMING DETAILS
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BLD2112-00033

REVIEWED FOR CODE COMPLIANCE


This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes and standards, Street laws or rules applicable to this project.

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Revisions
Description
#

Date

HORIZON ELEMENTARY ADDITION

JEROME SCHOOL DISTRICT #261

934 10TH AVE EAST, JEROME, IDAHO

DATE: 12/17/2021
 McE PROJECT #: 1098.21

DRAWN BY: RS
 CHECKED BY: SM

PERMIT SET

DRAWING NO.:

S1.0

GENERAL STRUCTURAL NOTES

COLD-FORMED METAL:

- A. REFERENCED STANDARDS:
 1. AISI STANDARD: STANDARD FOR COLD-FORMED STEEL FRAMING
- B. SUBMITTALS:
 1. SUBMIT SHOP DRAWINGS OF PRE MANUFACTURED METAL TRUSS LAYOUT FOR REVIEW BY THE AND ENGINEER PRIOR TO FABRICATION.
 2. TRUSS MANUFACTURER SHALL PROVIDE PROOF OF APPROVED THIRD PARTY INSPECTION AS REQUIRED BY THE 2018 IBC, SECTION 1704.2.5
- C. LIGHT GAUGE STEEL STUDS AND JOISTS:
 1. 18 & 20 GAUGE MATERIAL: ASTM A570 GRADE 33 FOR PAINTED CARBON SHEET STEEL OR ASTM A653 GRADE A FOR GALVANIZED STEEL (Fy=33 KSI)
 2. 12, 14 & 16 GAUGE MATERIAL: ASTM A570 GRADE 50 FOR PAINTED CARBON SHEET STEEL OR ASTM A653 GRADE D FOR GALVANIZED STEEL (Fy=50 KSI). CARBON SHEET STEEL MUST BE COATED WITH A RUST INHIBIT PAINT.
 3. ALL STRUCTURAL PROPERTIES COMPUTED IN ACCORDANCE WITH ANSI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". DESIGNATIONS ON THE DRAWINGS ARE STEEL STUD MANUFACTURER'S ASSOCIATION (S.S.M.A.). APPROVED EQUIVALENT PRODUCTS MAY BE PERMITTED UPON REVIEW OF THE ARCHITECT AND STRUCTURAL ENGINEER.
 4. INSTALL MEMBERS IN ACCORDANCE WITH INDUSTRY STANDARDS. UNLESS NOTED OTHERWISE ON THESE DRAWINGS, STUD WALL TRACK TO BE OF THE SAME MATERIAL AND GAUGE AS STUDS.
 5. PROVIDE HORIZONTAL BRIDGING AT 5'-0" O.C. MAXIMUM AT NONBEARING WALLS AND 3'-0" O.C. MAXIMUM AT BEARING WALLS. COORDINATE W/ STUD MANUFACTURER'S REQUIREMENTS AND STUD CUT-OUT LOCATIONS.
 6. BEARING WALLS TO BE ERECTED WITH STUD ENDS SEATED AGAINST TRACK WEB ON TOP AND BOTTOM. SPLICING OF WALL STUDS IS NOT PERMITTED.
 7. CONSTRUCT WALL CORNERS USING A MINIMUM OF THREE STUDS.
 8. INSTALL DOUBLE STUDS AT WALL OPENINGS, DOOR AND WINDOW JAMBS, U.N.O. SPLICING STUDS & HEADER/INTEL FRAMING MEMBERS IS NOT PERMITTED.
 9. SUBMIT SHOP DRAWINGS SHOWING STUD AND JOIST LAYOUT, DIMENSIONS, SIZES, BRIDGING, AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.
 10. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS EXPERIENCED IN THIS TYPE OF CONSTRUCTION.
 11. CURTAIN WALL FRAMING ANCHORS: "THE STEEL NETWORK" OR APPROVED EQUIVALENT AS INDICATED ON DRAWINGS. INSTALL AND CONNECT PER MANUFACTURER'S REQUIREMENTS.
- D. FASTENERS:
 1. SELF-DRILLING, SELF TAPPING SCREWS, BOLTS, NUTS AND WASHERS: HOT DIP GALVANIZED PER ASTM A153
 2. ANCHORAGE DEVICES: POWER ACTUATED
- E. WELDS:
 1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS EXPERIENCED IN THIS TYPE OF CONSTRUCTION
- F. DEFINITIONS:
 1. PRODUCT IDENTIFICATION: STEEL FRAMING PRODUCTS HAVE A FOUR PART IDENTIFICATION CODE WHICH IDENTIFIES THE SIZE (BOTH DEPTH AND FLANGE WIDTH), STYLE, AND MATERIAL THICKNESS OF EACH MEMBER. FOR EXAMPLE: 600 S162-54
 a. MEMBER DEPTH - 6" = 600 x 1/100 INCHES
 b. STYLE:
 • STUD OR JOIST SECTIONS = S
 • TRACK SECTIONS = T
 • FURRING CHANNEL SECTIONS = F
 • CHANNEL SECTIONS = C
 c. FLANGE WIDTH: 1 5/8" = 1.625" = 162 x 1/100 INCHES
 d. MATERIAL THICKNESS - 0.054 INCHES = 54 MILS, 1 MIL = 1/1000 INCH. MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.
 2. GAUGE EQUIVALENT:
 a. 30 MILS = 20 GA - ARCHITECTURAL
 b. 33 MILS = 20 GA - STRUCTURAL
 c. 43 MILS = 18 GA
 d. 54 MILS = 16 GA
 e. 68 MILS = 14 GA
 f. 97 MILS = 12 GA

POST INSTALLED ANCHORS IN CONCRETE:

- A. POST INSTALLED EXPANSION OR EPOXY ANCHORS SHALL BE PREAPPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.
 B. HOLES MUST BE DRILLED AND CLEANED PER MANUFACTURER'S INSTRUCTIONS. ANCHORS MUST BE INSTALLED AND SPECIAL INSPECTED PER MANUFACTURER'S INSTRUCTIONS.
 C. ANCHORS SHALL NOT BE INSTALLED WITHIN 1/12" OF MASONRY HEAD JOINTS.
 D. IF NO OTHER MORE STRICT SPECIFICATION IS DETAILED THEN THE EPOXY USED SHALL BE SIMPSON 'SET-XP' AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. USE A SIMPSON 'IXP' ANCHOR, THREADED ROD, OR REBAR AS APPLICABLE.
 E. UNDER NO CIRCUMSTANCES WILL AN EXPANSION BOLT AND/OR EPOXY SYSTEM BE APPROVED WITHOUT A CURRENT ICC ES REPORT THAT MEETS THE REQUIREMENTS OF THE GOVERNING JURISDICTION AND IS IN ACCORDANCE WITH ACI 318 AS ADOPTED BY THE IBC.

SPECIAL INSPECTION PROGRAM:

- A. THE OWNER SHALL EMPLOY AN APPROVED AGENCY FOR SPECIAL INSPECTION SERVICES TO PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC.
 B. AN APPROVED AGENCY SHALL BE AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS OR FURNISHING INSPECTION SERVICES.
 C. A SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL SHOW COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. A SPECIAL INSPECTOR SHALL ALSO DEMONSTRATE A THOROUGH WORKING KNOWLEDGE OF CHAPTER 17 OF THE IBC AS SUMMARIZED BELOW. IF THERE IS ANY OMISSION ON THE SUMMARIZED LIST BELOW, SUCH OMISSION SHALL NOT BE CONSTRUED TO MEAN THAT THE SPECIAL INSPECTOR IS NOT REQUIRED TO INSPECT EVERYTHING THAT IS NECESSARY TO MEET THE MINIMUM REQUIREMENTS OF THE IBC.
 D. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ENGINEER FOR REVIEW IN A TIMELY FASHION.
 E. SPECIAL INSPECTION REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER.

SPECIAL INSPECTION:

- A. SPECIAL INSPECTION AS HEREIN REQUIRED OF THE FOLLOWING MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
 B. STRUCTURAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE ENGINEER OF RECORD DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL INSPECTION REQUIRED BY SECTION 110, 1704, 1705, OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE.
 C. THE SPECIAL INSPECTION STATEMENT ON THIS SHEET LISTS THE ITEMS THAT REQUIRE SPECIAL INSPECTION AND VERIFICATION, THE CODE SECTION, REFERENCE FOR ADDITIONAL INFORMATION, AND THE REQUIRED FREQUENCY OF INSPECTION.

STRUCTURAL OBSERVATIONS:

- A. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEMS BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
 B. THE STRUCTURAL OBSERVER SHALL BE EITHER THE ENGINEER OF RECORD OR A REGISTERED DESIGN PROFESSIONAL APPROVED BY THE ENGINEER OF RECORD.
 C. THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR STRUCTURAL OBSERVATION, THE CONTRACTOR, AND APPROPRIATE SUBCONTRACTORS SHALL HOLD A PRE-CONSTRUCTION MEETING TO REVIEW THE DETAILS OF THE STRUCTURAL SYSTEMS TO BE STRUCTURALLY OBSERVED.
 D. THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR STRUCTURAL OBSERVATION SHALL SUBMIT SEPARATE WRITTEN OBSERVATION REPORTS FOR EACH REQUIRED SIGNIFICANT CONSTRUCTION STAGE TO BE OBSERVED. THIS WRITTEN REPORT, INCLUDING ANY OBSERVED DEFICIENCIES, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, THE OWNERS REPRESENTATIVE, THE CONTRACTOR, AND THE BUILDING OFFICIAL.

SPECIAL INSPECTION STATEMENT:

- A. TO BE USED IN CONJUNCTION WITH CHAPTER 17 OF THE 2018 IBC

S.I. TABLE 2

SPECIAL CASES: SECTION 1705.1.1		
INSPECTION OF MECHANICAL ANCHORS IN CONCRETE OR MASONRY:		
REQUIRED VERIFICATION & INSPECTION	FREQUENCY	
1. THE SPECIAL INSPECTOR MUST BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE INTEGRITY, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE.	CONTINUOUS	
2. VERIFICATION OF CONCRETE STRENGTH BY OBTAINING AND TESTING DRILLED CORES BY ASTM C42 METHODS	ONE TIME	
INSPECTION OF ADHESIVE ANCHORS IN CONCRETE OR MASONRY:		
REQUIRED VERIFICATION & INSPECTION	FREQUENCY	
1. VERIFY HOLE DRILLING METHOD; HOLE LOCATION, DIAMETER AND DEPTH; HOLE CLEANING; ANCHORAGE ELEMENT TYPE, MATERIAL, DIAMETER AND LENGTH; ADHESIVE BRAND, TYPE AND EXPIRATION DATE; CONTINUOUS INSPECTION OF ADHESIVE MIXING AND INSTALLATION	CONTINUOUS	
2. VERIFICATION OF CONCRETE STRENGTH BY OBTAINING AND TESTING DRILLED CORES BY ASTM C42 METHODS	ONE TIME	
3. PROOF LOAD TESTING (INCLUDE TESTING INSTRUCTIONS OF THE PLANS)	DEPENDS	

S.I. TABLE 5

MASONRY - LEVEL 1: SECTION 1705.4 AND TMS 402 & TMS 602		
REQUIRED VERIFICATION & INSPECTION	FREQUENCY	
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	PERIODIC	
2. VERIFICATION OF FM AND FAAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE 2018 IBC.	PERIODIC	
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT	CONTINUOUS	
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
a. PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC	
b. CONSTRUCTION OF MORTAR JOINTS	PERIODIC	
c. LOCATION OF REINFORCEMENT, CONNECTORS, PRE-STRESSING TENDONS AND ANCHORAGES	PERIODIC	
d. PRE-STRESSING TECHNIQUE	PERIODIC	
e. GRADE AND SIZE OF PRE-STRESSING TENDONS AND ANCHORAGES	PERIODIC	
5. THE INSPECTION PROGRAM SHALL VERIFY:		
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PERIODIC	
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	PERIODIC	
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	PERIODIC	
d. WELDING OF REINFORCING BARS	CONTINUOUS	
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)	PERIODIC	
f. APPLICATION AND MEASUREMENT OF PRE-STRESSING FORCE	CONTINUOUS	
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
a. GROUT SPACE IS CLEAN	PERIODIC	
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRE-STRESSING TENDONS AND ANCHORAGES	PERIODIC	
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRE-STRESSING GROUT FOR BONDED TENDONS	PERIODIC	
d. CONSTRUCTION OF MORTAR JOINTS	PERIODIC	
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	CONTINUOUS	
a. GROUTING OF PRE-STRESSING BONDED TENDONS	CONTINUOUS	
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	PERIODIC	

S.I. TABLE 7

STRUCTURAL STEEL CONSTRUCTION: SECTION 1705.2			
INSPECTION OF WELDING (AISC360)			
TABLE C-N5.4-1 INSPECTION TASKS PRIOR TO WELDING			
NO.	DESCRIPTION	QC	QA
1.	WELDER QUALIFICATION AND CONTINUITY RECORDS,	P	O
2.	WPS AVAILABLE	P	P
3.	MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES	P	P
4.	MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
5.	WELDER IDENTIFICATION SYSTEM	O	O
6.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O	O
a. JOINT PREPARATION			
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			
c. CLEANLINESS (CONDITION OF STEEL SURFACES)			
d. TACKING (TACK WELD QUALITY AND LOCATION)			
e. BACKING TYPE AND FIT (IF APPLICABLE)			
7.	FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT	P	O
a. JOINT PREPARATION (JOINT GEOMETRY)			
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			
c. CLEANLINESS (CONDITION OF STEEL SURFACES)			
d. TACKING (TACK WELD QUALITY AND LOCATION)			
8.	CONFIGURATION AND FINISH OF ACCESSHOLES	O	O
9.	FIT-UP FOR FILLET WELDS	O	O
a. DIMENSIONS (ALIGNMENT, GAPS AT BELOW)			
b. CLEANLINESS (CONDITION OF STEEL SURFACES)			
c. TACKING (TACK WELD QUALITY AND LOCATION)			
9.	CHECK WELDING EQUIPMENT	P	O
TABLE C-N5.4-2 INSPECTION TASKS DURING WELDING (AISC 360)			
1.	USE OF QUALIFIED WELDERS	O	O
2.	CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O
a. PACKAGING			
b. EXPOSURE CONTROL			
3.	NO WELDING OVER CRACKED TACK WELDS	O	O
4.	ENVIRONMENTAL CONDITIONS	O	O
a. WIND SPEED WITHIN LIMITS			
b. PRECIPITATION AND TEMPERATURE			
5.	WPS FOLLOWED	O	O
a. SETTING ON WELDING EQUIPMENT			
b. TRAVEL SPEED			
c. SELECTED WELDING MATERIALS			
d. SHIELDING GAS TYPE/FLOW RATE			
e. PREHEAT APPLIED			
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)			
g. PROPER POSITION (F, V, H, OH)			
6.	WELDING TECHNIQUES	O	O
a. INTERPASS AND FINAL CLEANING			
b. EACH PASS WITHIN PROFILE LIMITATIONS			
c. EACH PASS MEETS QUALITY REQUIREMENTS			
TABLE C-N5.4-3 INSPECTION TASKS AFTER WELDING (AISC 360)			
1.	WELDS CLEANED	O	O
2.	SIZE, LENGTH AND LOCATION OF WELDS	P	P
3.	WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P
a. CRACK PROHIBITION			
b. WELD-BASE-METAL FUSION			
c. CRATER CROSS SECTION			
d. WELD PROFILES			
e. WELD SIZE			
f. UNDERCUT			
g. POROSITY			
4.	ARC STRIKES	P	P
5.	K-AREA	P	P
6.	BACKING REMOVED AND WELD TABS REMOVED IF REQUIRED	P	P
7.	REPAIR ACTIVITIES	P	P
8.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT MEMBER	P	P
INSPECTION OF BOLTING (AISC360)			
TABLE C-N5.6-1 INSPECTION TASKS PRIOR TO BOLTING			
1.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
2.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
3.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS TO BE EXCLUDED FROM SHEAR PLANE)	O	O
4.	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
5.	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FLAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
6.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
7.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O
TABLE C-N5.6-2 INSPECTION TASKS DURING BOLTING (AISC 360)			
1.	FASTENER ASSEMBLIES OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
2.	JOINT BROUGHT TO SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
3.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
4.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH A METHOD APPROVED BY RSCE AND PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD FREE EDGES	O	O
TABLE C-N5.6-3 INSPECTION TASKS AFTER BOLTING (AISC 360)			
1.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

ABBREVIATIONS:

- A A.B. ANCHOR BOLT
 ADD'L ADDITIONAL
 ALT ALTERNATE
 APPROX APPROXIMATE
 ARCH. ARCHITECT
 ARCH'L ARCHITECTURAL
 B BOTTOM
 BLDG. BUILDING
 BM BEAM
 BOT BOTTOM
 BRG. BEARING
 C CHANNEL
 C/C CONTROL JOINT
 CL CENTER LINE
 CLG. CEILING
 CMU CONCRETE MASONRY UNITS
 COM COMMON
 CONC. CONCRETE
 COND. CONDITION
 CONN. CONNECTION
 COORD. COORDINATE
 D DEPTH
 DET DETAIL
 D.F. DOUGLAS FIR
 D.F.L. DOUGLAS FIR- LARCH
 DIAG. DIAGONAL
 DIAM. DIAMETER
 DIMS. DIMENSION
 DWG. DRAWING
 E EXISTING
 (E) EACH
 EA. EXPANSION BOLT/ANCHOR
 EB. EXPANSION JOINT
 E.J. EXPANSION JOINT
 ELEV. ELEVATION
 E.N. EDGE NAIL
 EQ. EQUAL
 EQUIP. EQUIPMENT
 EXIST. EXISTING
 F FOUNDATION
 FDN FINISH
 FLR. FLOOR
 FRMG. FRAMING
 FTG. FOOTING
 (F.V.) FIELD VERIFY
 G GAUGE
 GALV. GALVANIZE
 GLB. GLU LAM BEAM
 GYP. GYPSUM BOARD
 H HEADED ANCHOR STUD
 H.A.S. HOLD DOWN
 H.D. HEADER
 HOR. HORIZONTAL
 I INCHES
 L LENGTH
 (L) POUND
 LB. POUND
 LLH LONG LEG HORIZONTAL
 LLV LONG LEG VERTICAL
 LVL LAMINATED VENEER LUMBER
 M MANUFACTURER
 MANUF. MAXIMUM
 MAX. MACHINE BOLT
 MB MECHANICAL
 MECH. MINIMUM
 MIN. MISCELLANEOUS
 MISC. NUMBER
 NO. NOT TO SCALE
 N.T.S. ON CENTER
 O. OPPOSITE HAND
 O.C. OPENING
 OPNG. OPPOSITE
 OPP. ORIENTED STRAND BOARD
 OSB OPEN WEB STEEL JOIST
 OWSJ
 P PRE-ENGINEERED METAL BUILDING
 PEMB PERPENDICULAR
 PERP. PLATE
 PL. PLYWOOD
 PLY. PARALLEL STRAND LUMBER
 PSL. POUNDS PER SQUARE INCH
 PSI. PRESSURE TREATED
 P.T. REFERENCE
 R REINFORCEMENT
 REF. REQUIRED
 REINF. REVISION
 REINFD. ROUGH SAWN
 REV. ROOF TOP UNIT
 R.S. SCHEDULE
 RTU. SHEATHING
 S SIMILAR
 SIM. SKETCH
 SK. SPECIFICATIONS
 SPECS. STAINLESS STEEL
 SS. STAGGERED
 STAG. STANDARD
 STAG. STRUCTURAL
 STD. STRUCTURAL
 STRUCT. T
 T. T.H.S.
 T.A.S. TONGUE AND GROOVE
 T&G. TOP AND BOTTOM
 T&B. THROUGH
 THRU. TRUS JOIST I-JOIST
 T.J. TO
 TO. TOP OF
 TRANSV. TRANSVERSE
 TYP. TYPICAL
 U UNLESS OTHERWISE NOTED
 UNO. VERIFY IN FIELD
 V. VERTICAL
 VERT. W
 (W) WOOD
 W. WOOD
 WD. WOOD
 W.D. WOOD
 W.P. WOOD
 W.P. WOOD
 W.F. WOOD
 W.F. WOOD
 W.W. WOOD
 WWR. WOOD



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Revisions	Date	Description
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HORIZON ELEMENTARY ADDITION
 JEROME SCHOOL DISTRICT #261
 934 10TH AVE EAST, JEROME, IDAHO

DATE: 12/17/2021
 MCE PROJECT #: 1098.21

DRAWN BY: Author
 CHECKED BY: Checker

PERMIT SET

DRAWING NO.:

S1.1
 GENERAL STRUCTURAL NOTES

REVIEWED FOR CODE COMPLIANCE
 Mcclelland Engineering Inc
 208.331.4568

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FOUNDATION PLAN NOTES:

- FOR ANY ADDITIONAL DIMENSIONS NOT SHOWN, SEE ARCH PLANS. NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- FOR ANY DIMENSION DISCREPANCIES FOUND BETWEEN THE ARCH. PLANS AND THESE PLANS USE THE DIMENSIONS FROM THE ARCH. PLANS. NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.
- STRUCTURAL WALLS ARE CONSIDERED TO BE ALL LOAD BEARING WALLS, SHEAR WALLS AND ANY WALL THAT REQUIRES A FOOTING.
- CONTRACTOR TO REVIEW GEOTECH REPORT FOR SPECIAL REQUIREMENTS PRIOR TO POURING CONCRETE.
- FOR GENERAL STRUCTURAL NOTES SEE SHEET S1.0 & S1.1.
- FOR TYPICAL FOUNDATION DETAILS SEE SHEET S3.0.
- T.O.SLAB = TOP OF CONCRETE SLAB ELEVATION
- T.O.FTG. = TOP OF FOOTING ELEVATION
- B.O.FTG. = BOTTOM OF FOOTING ELEVATION
- CORNER REINF. IS REQ'D PER 4/S3.0.
- DIMENSIONS ON EXISTING MEMBERS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- (E) = EXISTING FRAMING MEMBER
- (F.V.) = FIELD VERIFY DIMENSION OR EXISTING FRAMING CONDITION

FOUNDATION PLAN LEGEND:

- INDICATES 2x6 DF-L#2 @ 16" O.C. WOOD STUD WALL U.N.O.
- INDICATES EXISTING 8" MASONRY WALL.
- INDICATES 400S162-43 @ 16" O.C. STEEL STUD WALL W/ 400T200-43 TOP & BOTTOM TRACK
- INDICATES WOOD 6x6 DF-L #2 POST U.N.O. WITH 'AB' POST BASE & 'BC' POST CAP, U.N.O.
- INDICATES STEEL HSS 6x6x1/4 COLUMN, U.N.O.
- INDICATES 4" CONC. SLAB ON GRADE W/ #3 @ 16" O.C. EA. WAY (OR 4x4 2.9W x 2.9W WWR) (PLACED @ MID-DEPTH OF SLAB) OVER 10 MIL VAPOR BARRIER OVER 4" COMPACTED 3/4" MINUS GRAVEL.
- INDICATES CONCRETE SLAB CONTROL JOINT SEE 1/S3.0.
- INDICATES STEPPED FOOTING CONDITION PER 2/S3.0.
- INDICATES WOOD SHEAR WALL ABOVE. SEE DETAIL 4/S6.0 FOR SCHEDULE. SHEAR WALL LENGTH SHALL BE FULL LENGTH BETWEEN WINDOWS/DOORS OR WALL CORNERS PER SHEAR WALL DETAILS, U.N.O.
- INDICATES HOLD DOWN MARK. SEE DETAIL 5/S3.0 FOR SCHEDULE. COORDINATE HOLD DOWN AND HOLD DOWN ANCHOR BOLT PLACEMENT WITH HOLD DOWN SCHEDULE AND HEADER SCHEDULE.

FOUNDATION PLAN KEYNOTES:

- SAWCUT AND DEMO (E) CONC. FLOOR SLAB FOR NEW FOOTINGS.
- FIELD VERIFY 16'-0" MIN. EXISTING 8" REINFORCED MASONRY SHEAR WALL W/ #6 VERTS @ 24" O.C. & #5 HORIZ. @ 48" O.C.

WALL FOOTING SCHEDULE

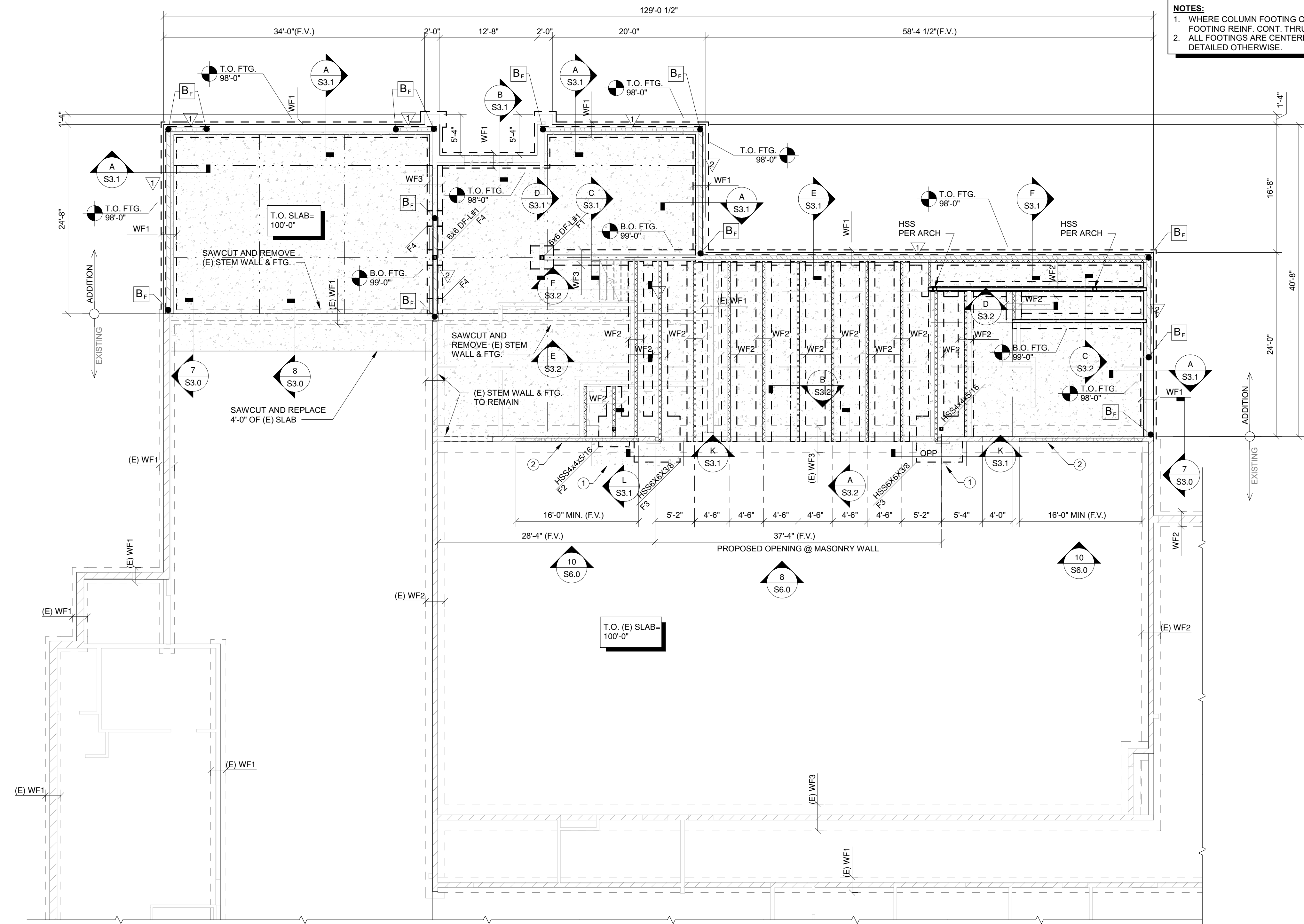
FOOTING MARK	WIDTH (W)	DEPTH	REINF.
(E) WF1	2'-0"	1'-0"	FIELD VERIFY
(E) WF2	2'-6"	1'-0"	FIELD VERIFY
(E) WF3	3'-6"	1'-0"	FIELD VERIFY
WF1	2'-0"	1'-0"	(3) #5 CONT. (L)
WF2	2'-0"	1'-0"	(2) #5 CONT. (L) & #5 @ 16" O.C. (T)
WF3	2'-0"	1'-0"	(3) #5 CONT. (L) & #5 @ 16" O.C. (T)

- NOTES:**
- FOR ANY WALL FOOTING NOT MARKED, USE FOOTING TYPE WF1.
 - ALL FOOTINGS ARE CENTERED UNDER WALLS UNLESS NOTED OR DETAILED OTHERWISE.
 - (H) = HORIZONTAL BARS IN STEM WALL - WHERE OCCURS
(L) = LONGITUDINAL BARS IN FOOTING
(V) = VERTICAL BARS IN STEM WALL - WHERE OCCURS
(T) = TRANSVERSE BARS IN FOOTING
E.F. = EACH FACE
T&B = TOP AND BOTTOM
(V) VERTICAL BARS IN STEM WALL MAY BE BENT (IN ALTERNATE DIRECTIONS) @ THE FOOTING AND USED IN LIEU OF (T) TRANSVERSE BARS - SEE DETAILS.

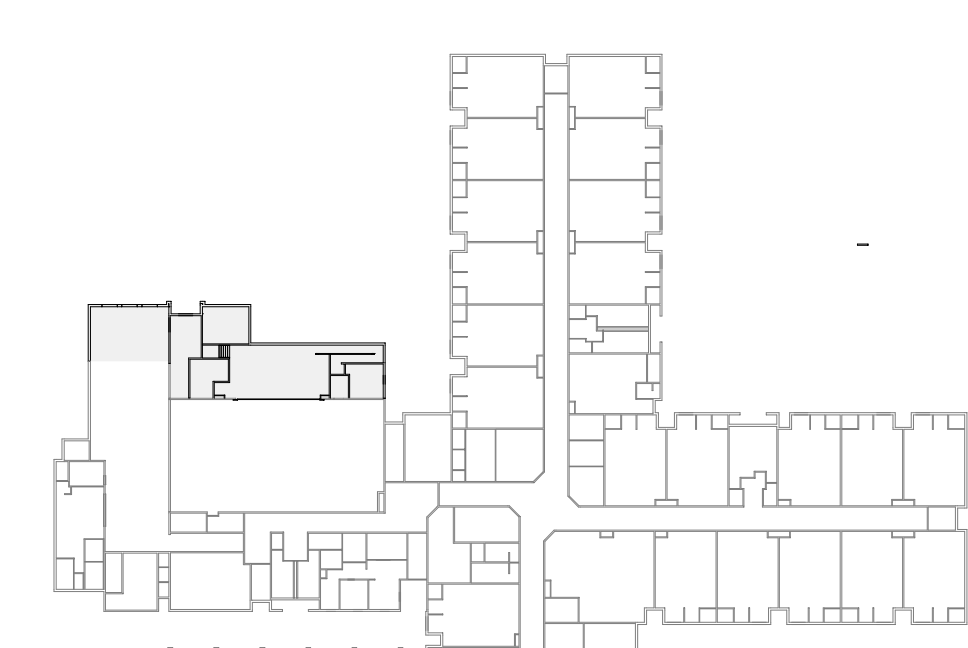
COLUMN FOOTING SCHEDULE

FOOTING MARK	WIDTH x LENGTH (W x L)	DEPTH (D)	REINF.
F1	3'-0" x 3'-0"	1'-0"	(4) #5 EA. WAY
F2	4'-0" x 4'-0"	1'-0"	(4) #5 EA. WAY
F3	6'-0" x 6'-0"	1'-0"	(7) #5 EA. WAY
F4	2'-0" x 2'-0"	1'-0"	(3) #5 EA. WAY & 'PAB'S' A.B. W/ 7" EMBED

- NOTES:**
- WHERE COLUMN FOOTING OCCURS @ WALL FOOTING - RUN WALL FOOTING REINF. CONT. THRU COLUMN FOOTING.
 - ALL FOOTINGS ARE CENTERED UNDER COLUMNS UNLESS NOTED OR DETAILED OTHERWISE.



1 PARTIAL FOUNDATION PLAN
1/8" = 1'-0"

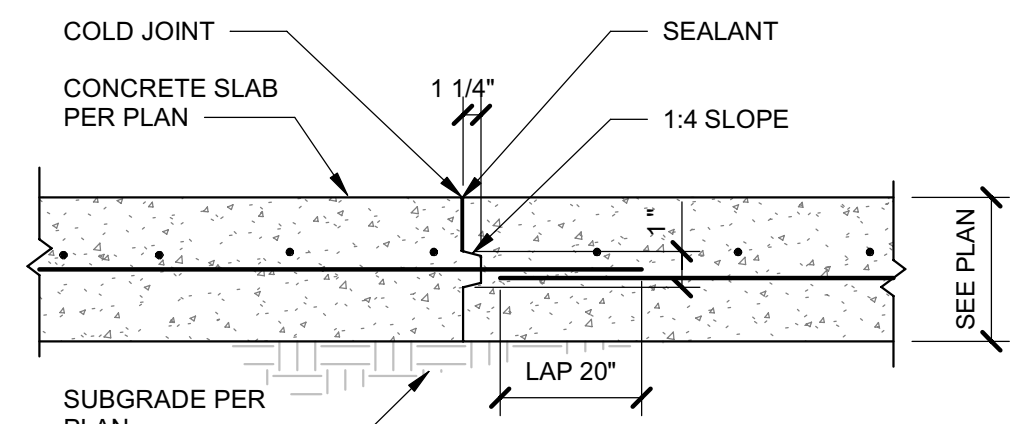


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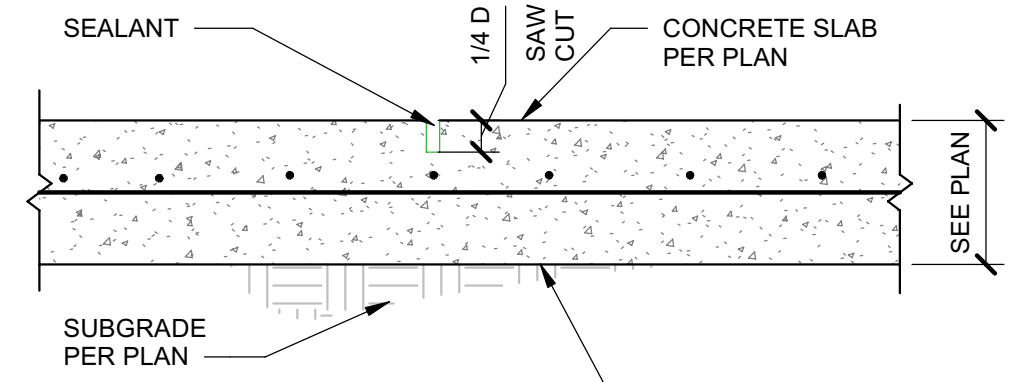
THIS APPROVAL SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF ANY VIOLATION OF, OR VARIANCE FROM, IDAHO'S ADOPTED CODES AND STANDARDS, STREET LAWS OR RULES APPLICABLE TO THIS PROJECT.

McCleendon Engineering inc
Professional Engineer, No. 10722, State of Idaho
2400 E. Riverwalk Drive, Boise, Idaho 83706
208.336.3443



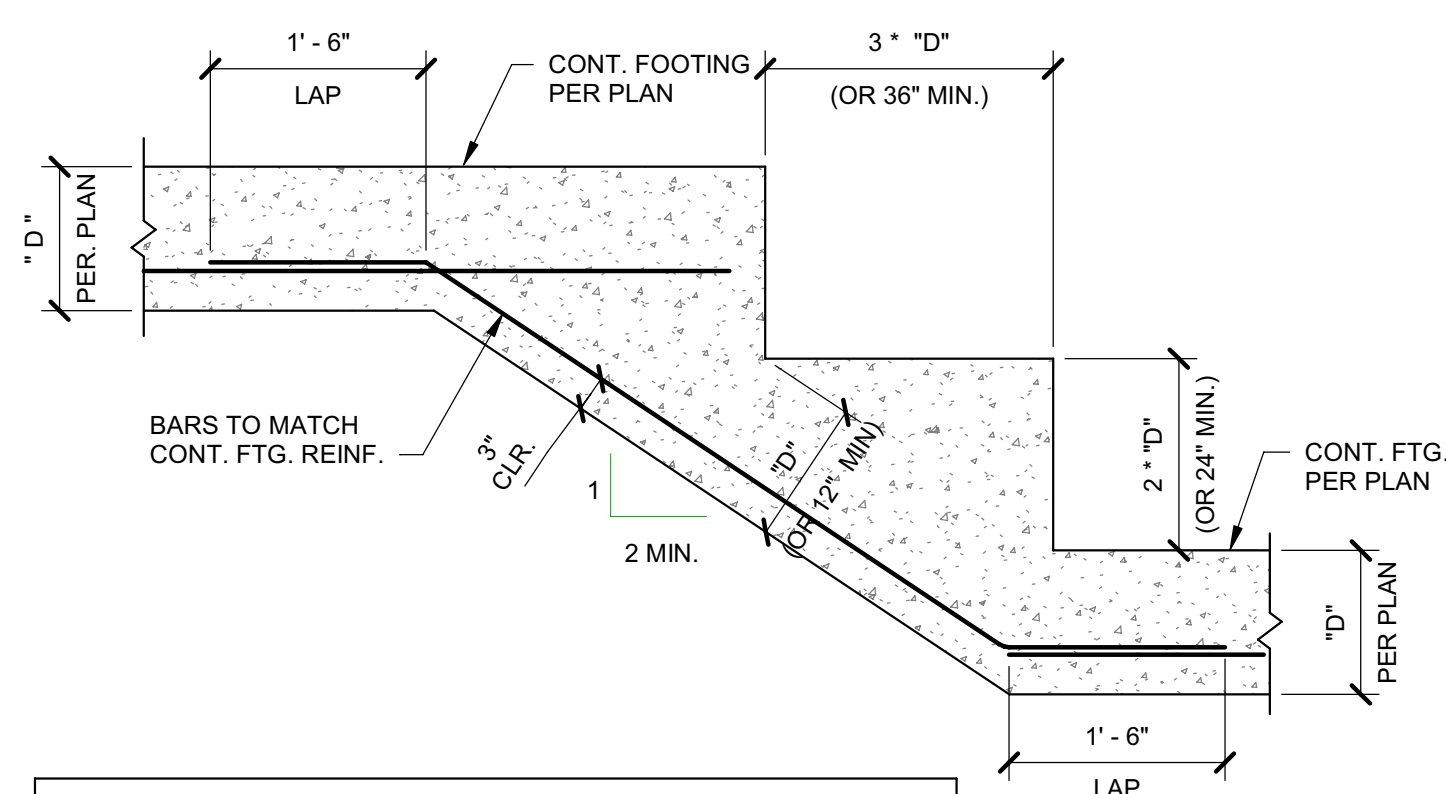
CONSTRUCTION JOINT

- NOTES:
- CONSTRUCTION JOINTS & CONTROL JOINTS MAY BE LOCATED INTERCHANGEABLE TO ALLOW WORKABLE SIZE CONC. PLACEMENTS. COORDINATE LOCATIONS WITH ARCH. PLANS
 - SAWING SHALL OCCURE NO LATER THAN 12 HOURS AFTER CONCRETE HAS BEEN PLACED.
 - MAX SPACING IN EITHER DIRECTION FOR REINFORCED SLAB, U.N.O.
 - 4" THICK SLAB = 12'-0" O.C.



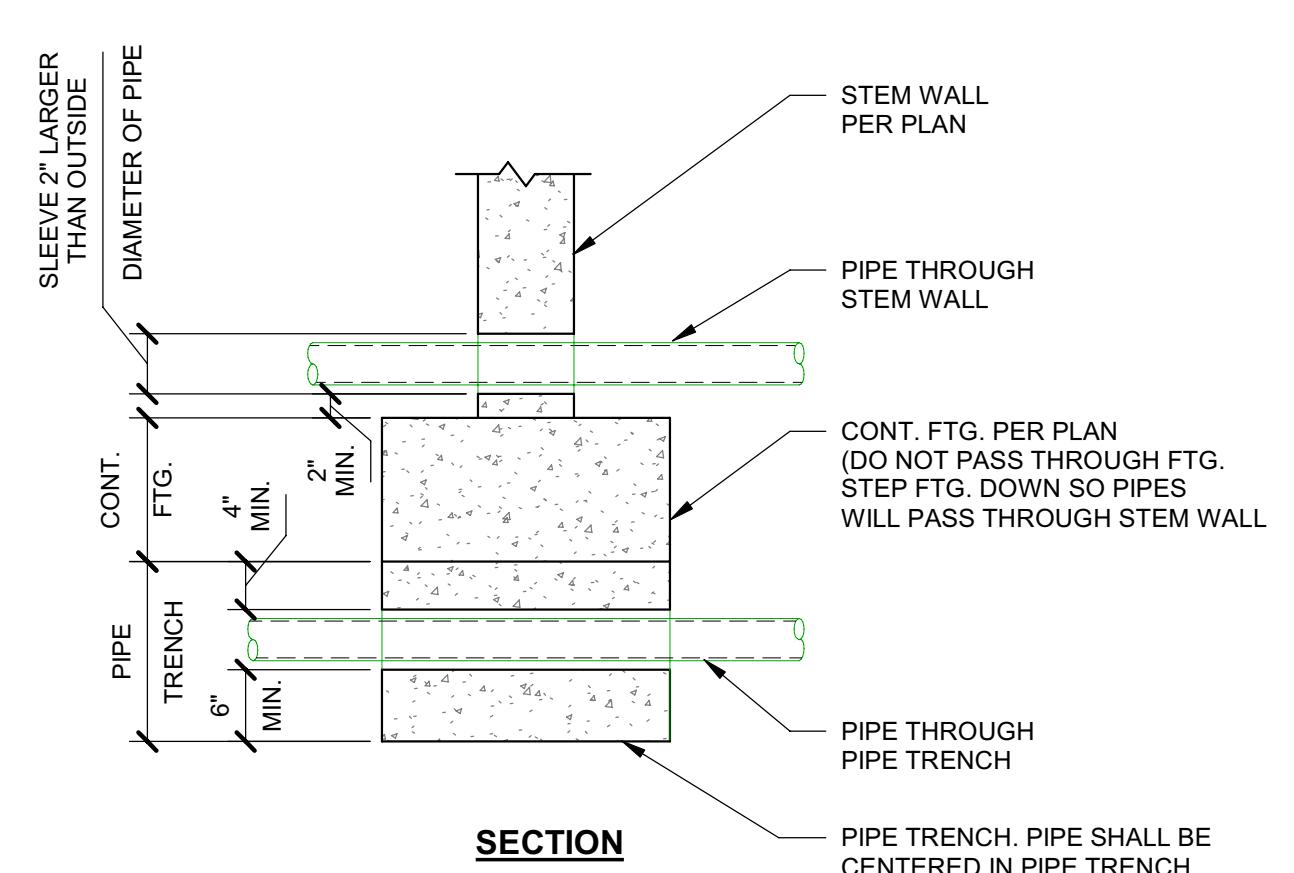
CONTROL JOINT

1
S3.0 **CONTROL & CONSTRUCTION JOINT** SCALE: 3/4" = 1'-0"



- NOTES:
- STEP FTG DOWN SO PIPES WILL PASS THROUGH STEM WALL AS REQD. SEE DET 3/S3.0.
 - AT INTERSECTION BETWEEN EXTERIOR FTG. & INTERIOR FTG. EITHER STEP FTG. UP TO INTERIOR FTG. ELEVATION OR DO NOT STEP FTG. AND COMPACT STRUCTURAL BACKFILL UNDER INTERIOR FTG. TO 95% OF THE MAX. DENSITY AS DETERMINED BY ASTM D1557 AND PROVIDE 1/2" PREMOLDED EXP. JT. BETWEEN EXTERIOR & INTERIOR FTGS.
 - "D" = FOOTING THICKNESS PER PLAN
 - MIN. LAP LENGTH IS SHOWN. FOR ADD'L LAP INFO SEE DET 4/S3.0.
 - PROVIDE DOWELS TO MATCH AND LAP VERT. WALL REINF SIZE AND SPACING.

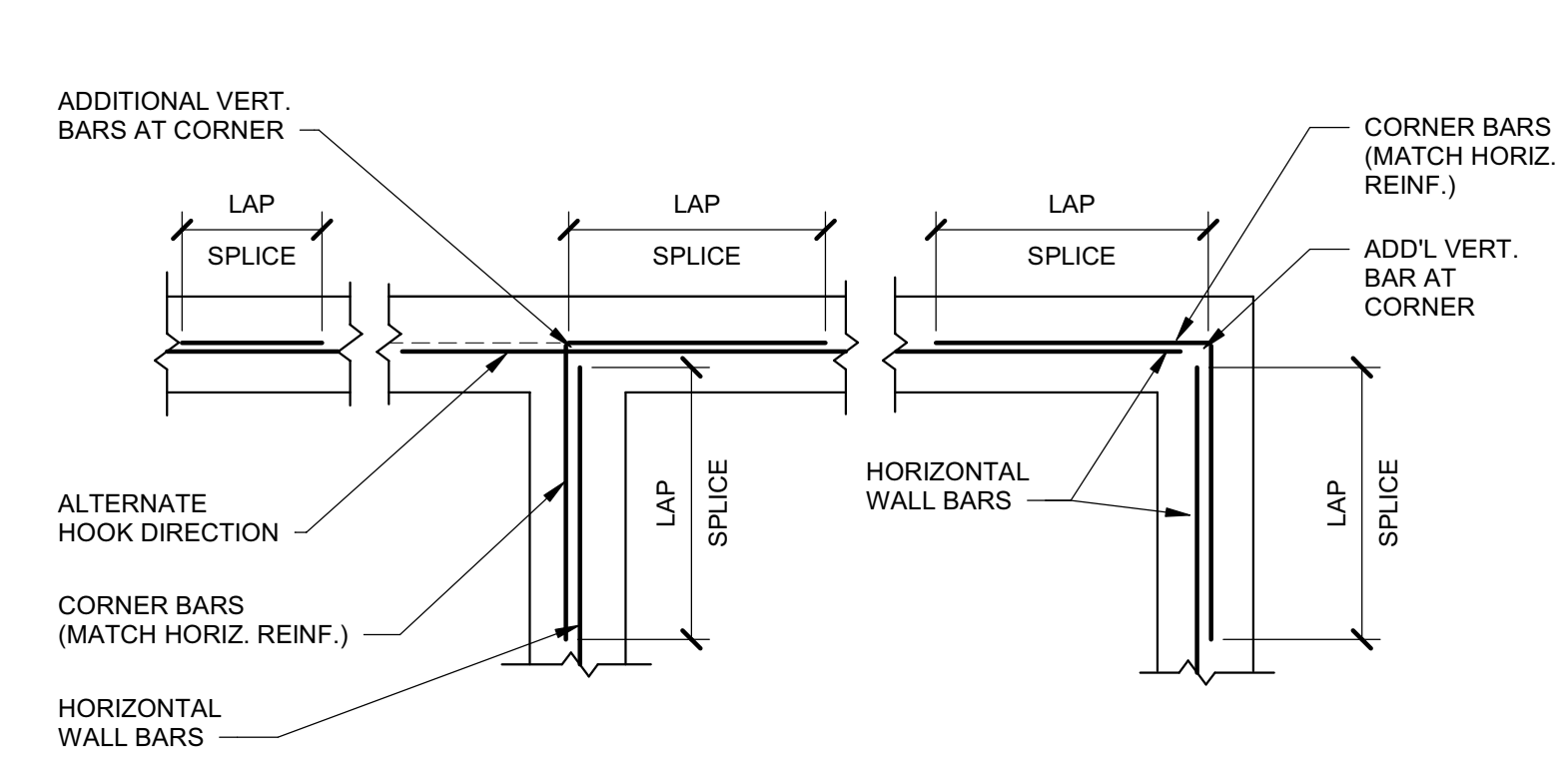
2
S3.0 **STEPPED FOOTING DETAIL** SCALE: 3/4" = 1'-0"



SECTION

- NOTE:
TRENCH BELOW FOOTING SHALL BE FILLED W/ CONCRETE BEFORE POURING FOOTING

3
S3.0 **PIPE TRENCH AT FOUNDATION DETAIL** SCALE: 3/4" = 1'-0"



- NOTE:
LAP SPLICE LENGTH (U.N.O.)
CONCRETE WALL: 48 BAR DIA. OR 28"
(MIN) WHICHEVER IS GREATER

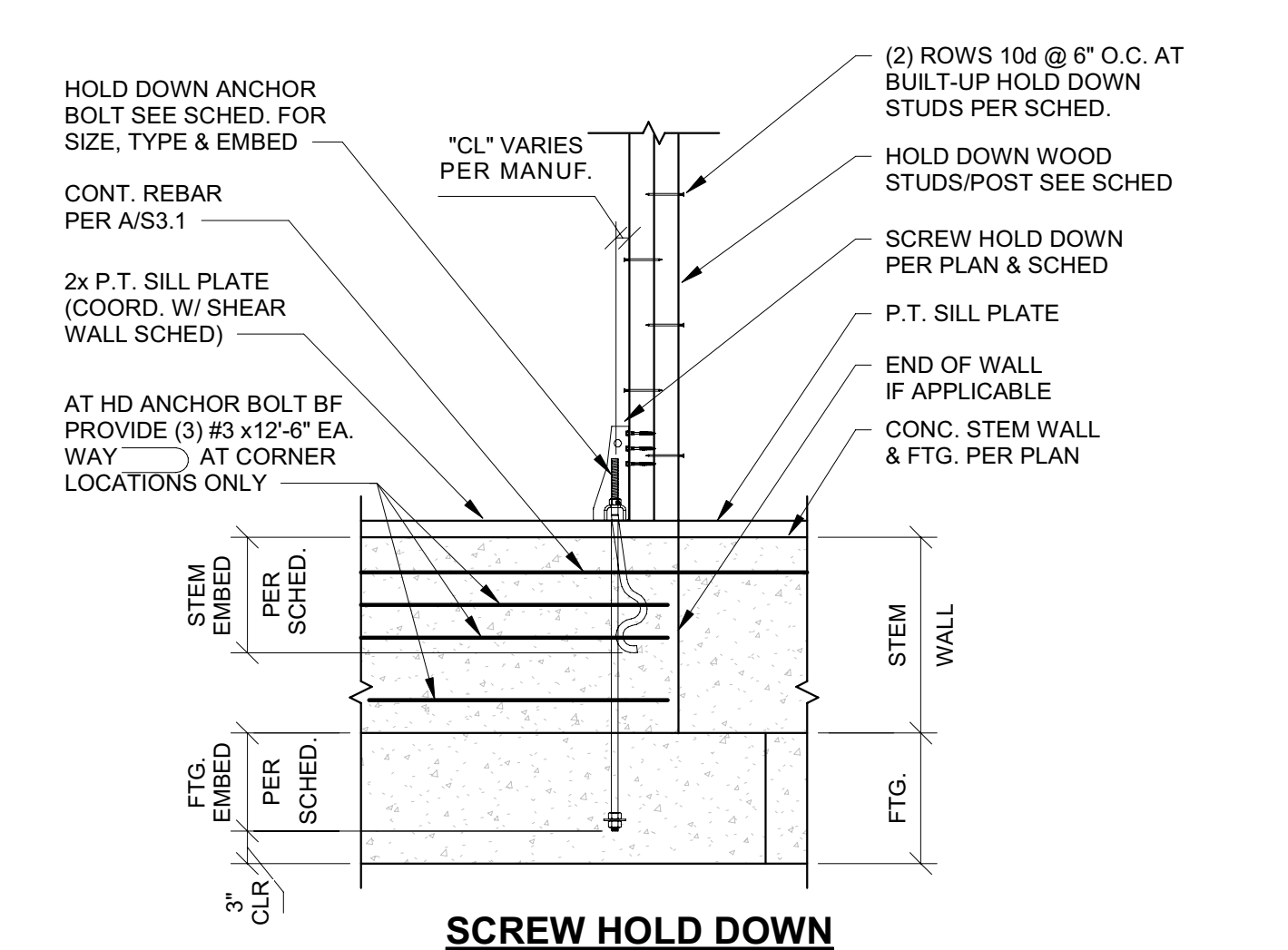
4
S3.0 **STEM WALL CORNER AND INTERSECTON REINF.** SCALE: 3/4" = 1'-0"

TABLE 1: HOLD DOWN (HD) SCHEDULE (FIRST FLOOR WOOD SHEAR WALL TO CONCRETE FOUNDATION)

MARK	MIN. STEM WALL	OPTION 1: EMBED STRAP HD			OPTION 2: SCREW HD			STUD/POST
		STRAP HD SIZE	STUD NAILS	EMBED LENGTH	SCREW DH SIZE	STUD SCREWS	ANCHOR BOLT	
B _F	6"	N/A	N/A	N/A	HDU4-SDS2.5	(10) SDS 1/4" x 2 1/2"	5/8" Ø SB5/8x24" W/ 21" EMBED	(2) 2x

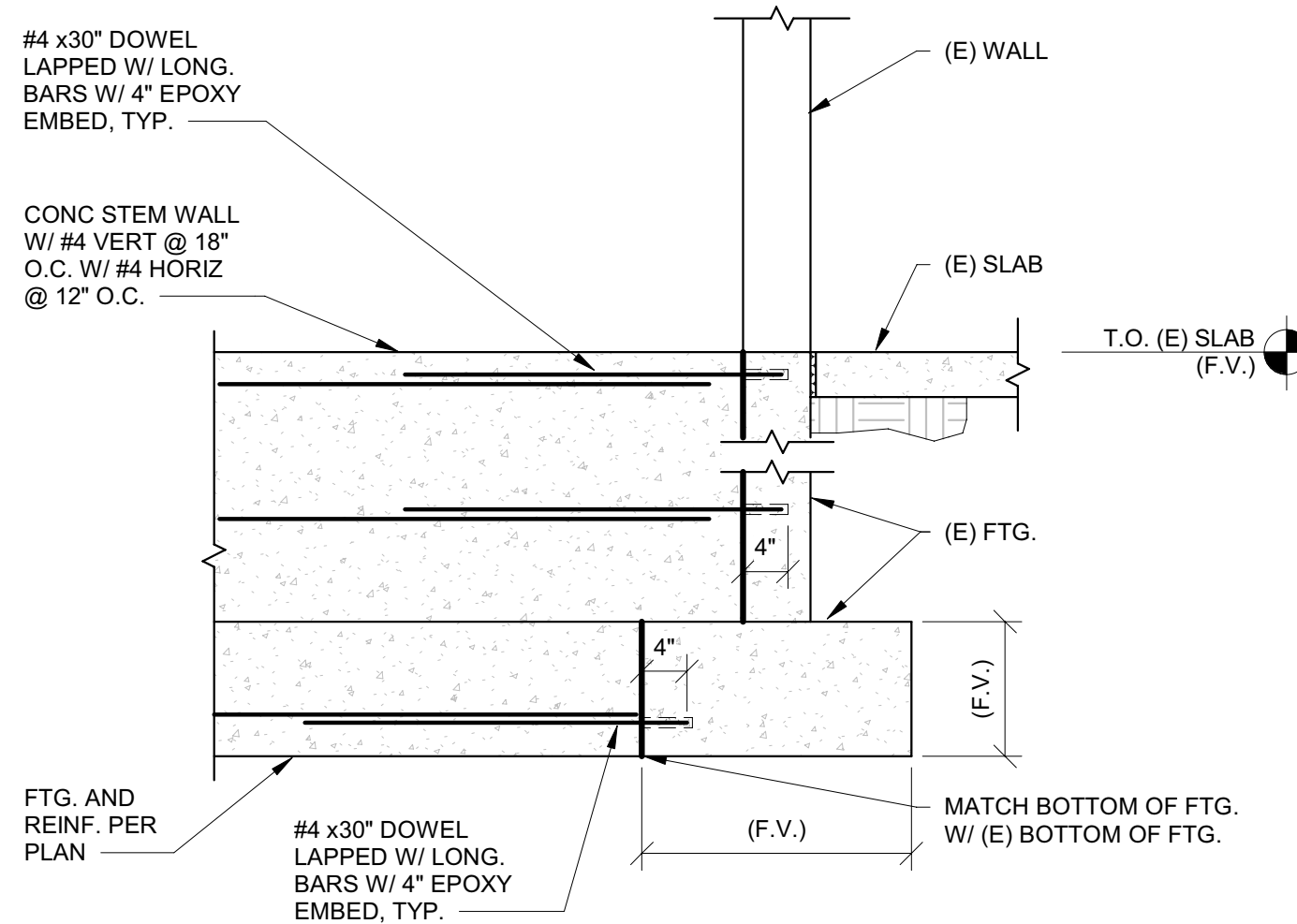
- NOTE:
- COMPARE HOLD DOWN STUD/POST (PER HOLD DOWN SCHEDULE) TO KING STUD(S) (PER HEADER SCHEDULE). LARGER SIZE GOVERNS. CONTRACTOR TO COORDINATE ANCHOR BOLT PLACEMENT.
 - DEEPEN FOUNDATION AND STEM WALL AT FOOTING, WHERE REQUIRED.
 - CONTRACTORS OPTION TO USE STRAP HD (OPTION 1) OR SCREW HD (OPTION 2) PER SCHEDULE.
 - STRAP HD MUST BE INSTALLED WITH SIMPSON "SM1" BRACKETS, TYP.
 - STRAP HD MAY BE BENT HORIZONTAL THEN VERTICAL - ONE TIME ONLY.
 - ANCHOR BOLT EMBED IS MINIMUM CONCRETE STEM WALL EMBED, UNLESS NOTED OTHERWISE. SEE HOLD DOWN DETAIL 6/S3.0.
 - AT BUILT-UP (2)2x POST NAIL TOGETHER W/ (2) ROWS 10d @ 6" O.C. STAGGERED.

5
S3.0 **HOLD DOWN SCHEDULE-FOUNDATION** SCALE: 3/4" = 1'-0"

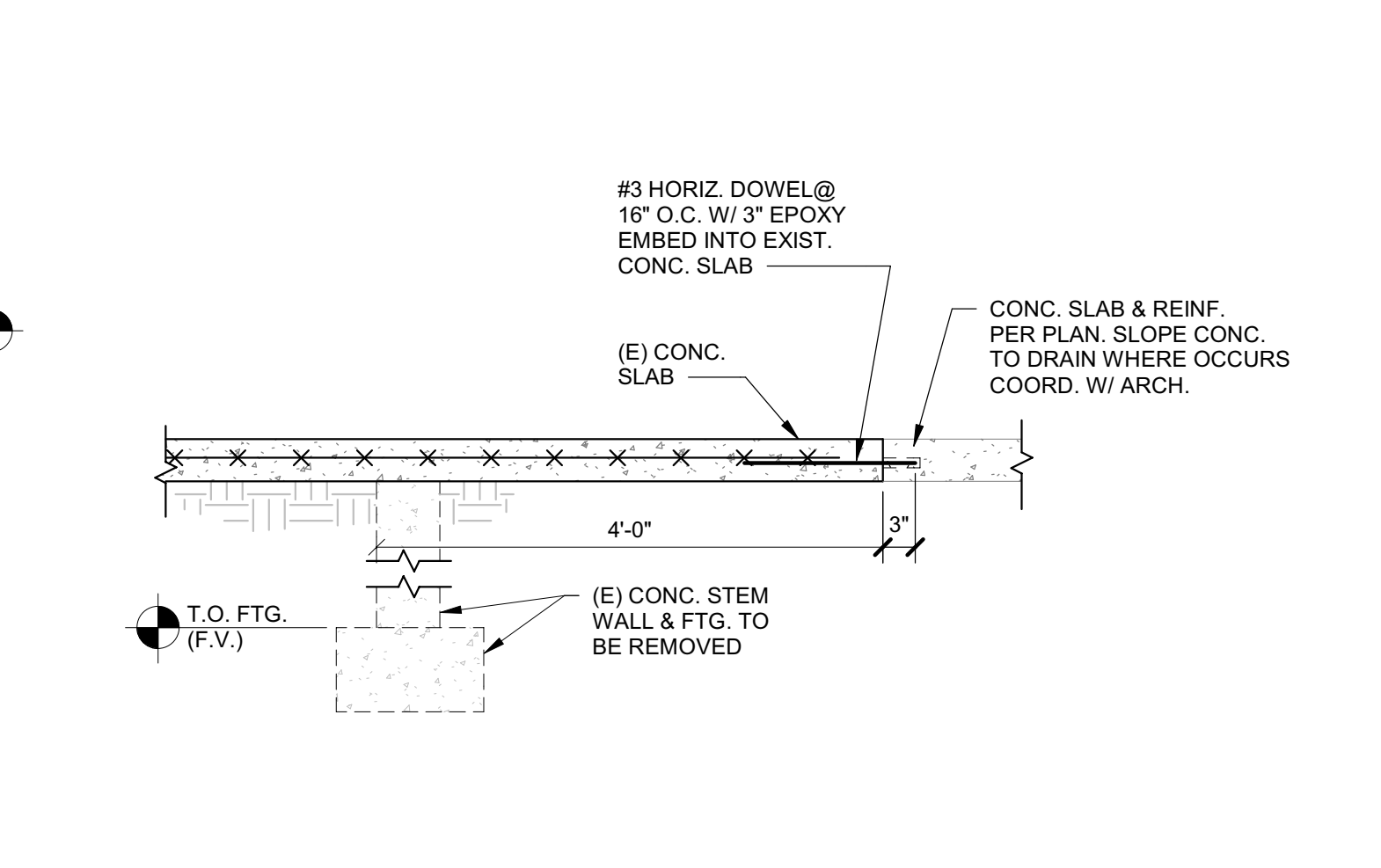


SCREW HOLD DOWN

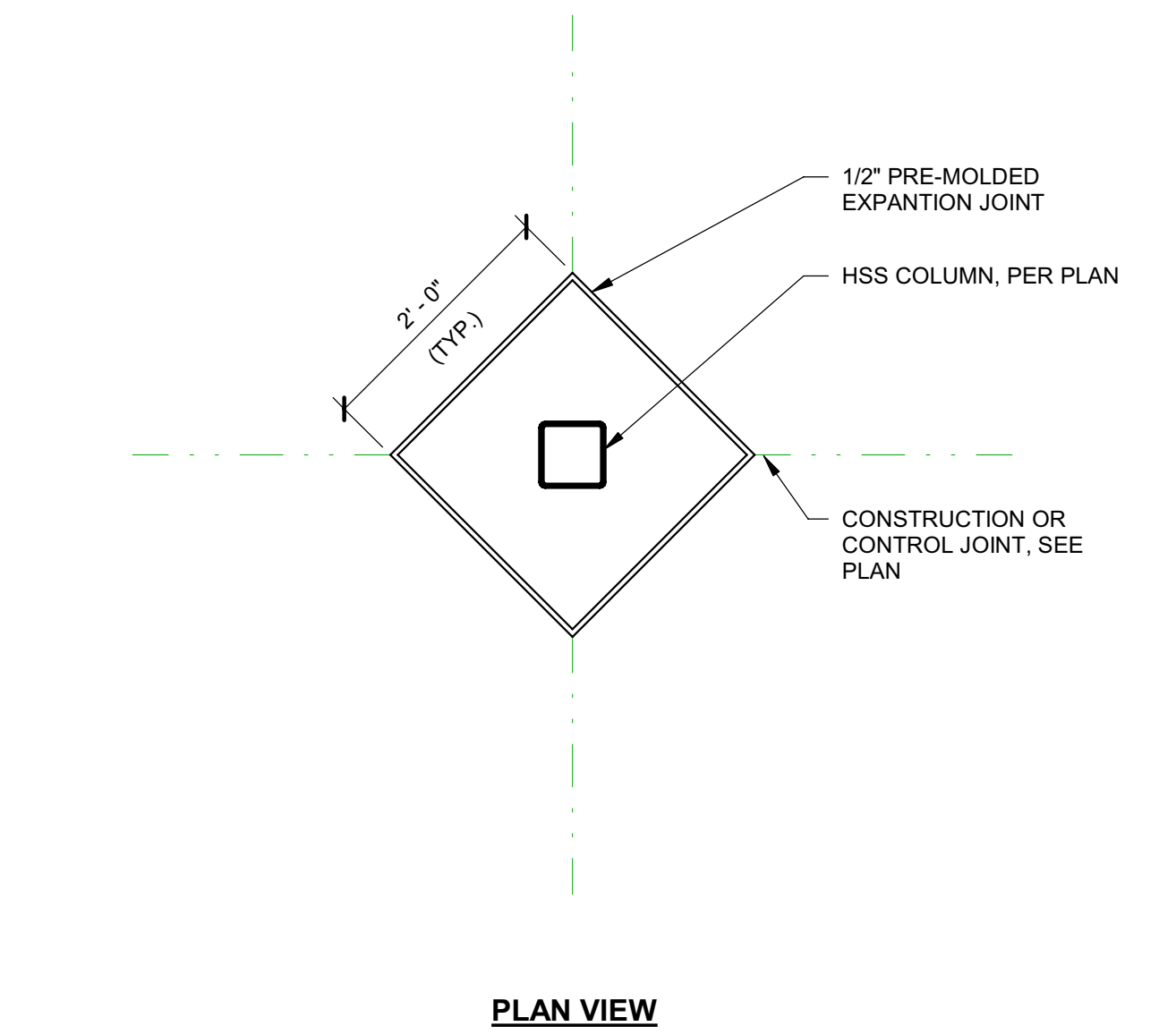
6
S3.0 **FOUNDATION HOLD DOWN DETAIL** SCALE: 3/4" = 1'-0"



7
S3.0 **SECTION @ FOOTING TRANSITION** SCALE: 3/4" = 1'-0"

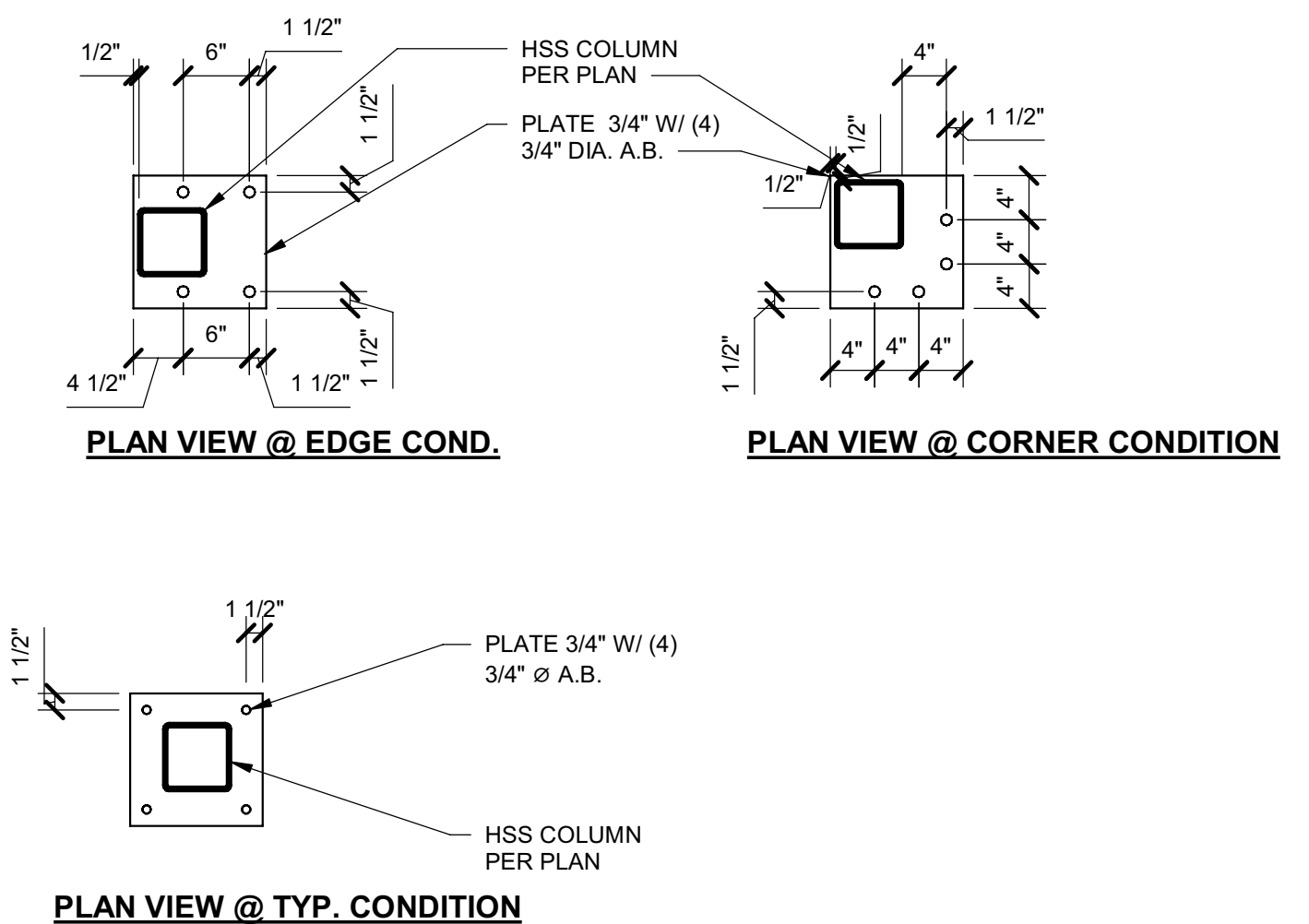


8
S3.0 **SECTION @ SLAB TRANSITION** SCALE: 3/4" = 1'-0"



PLAN VIEW

9
S3.0 **DIAMOND CLOSURE** SCALE: 3/4" = 1'-0"



PLAN VIEW @ TYP. CONDITION

10
S3.0 **BASE PLATE DETAIL** SCALE: 3/4" = 1'-0"



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JEROME SCHOOL DISTRICT #261**
934 10TH AVE EAST, JEROME, IDAHO

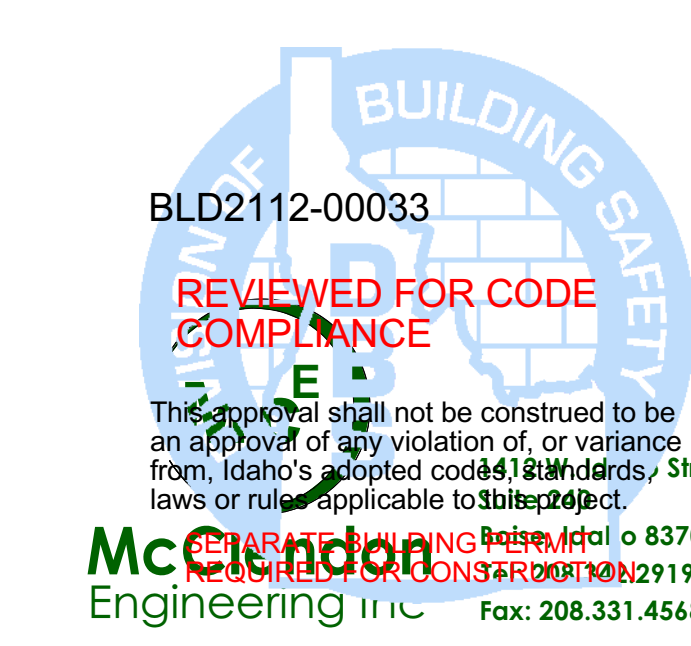
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MCE PROJECT #: 1098.21

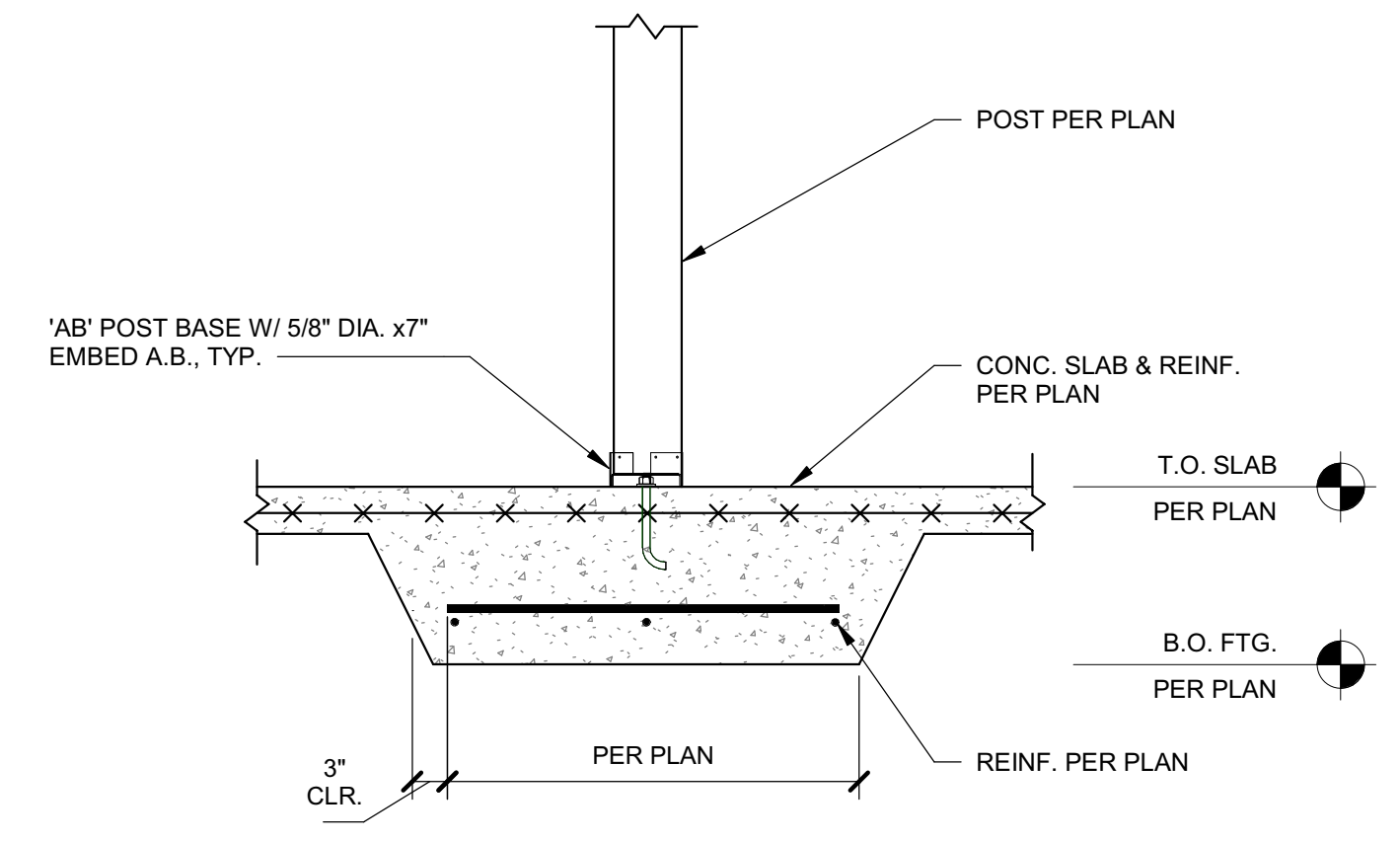
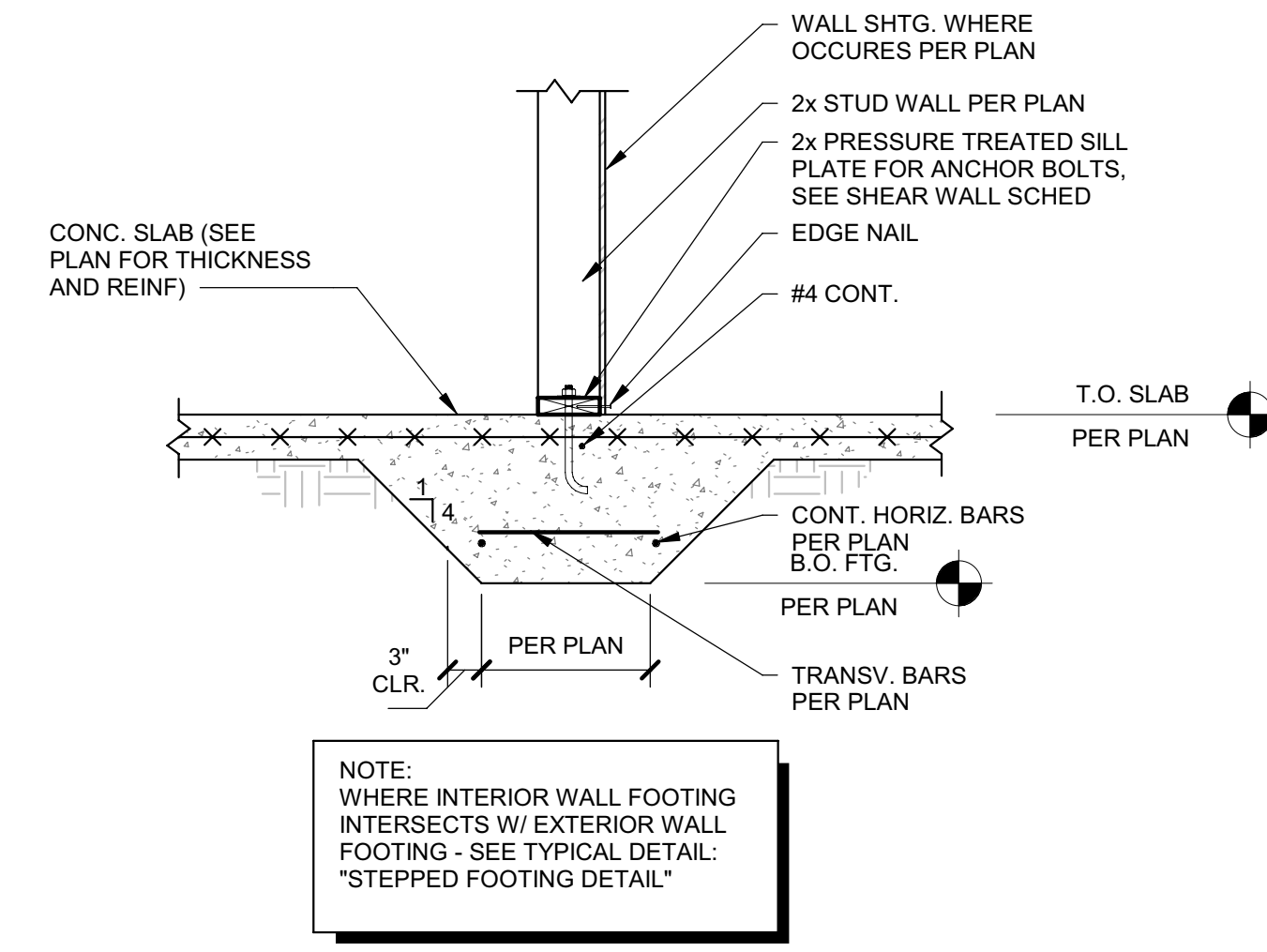
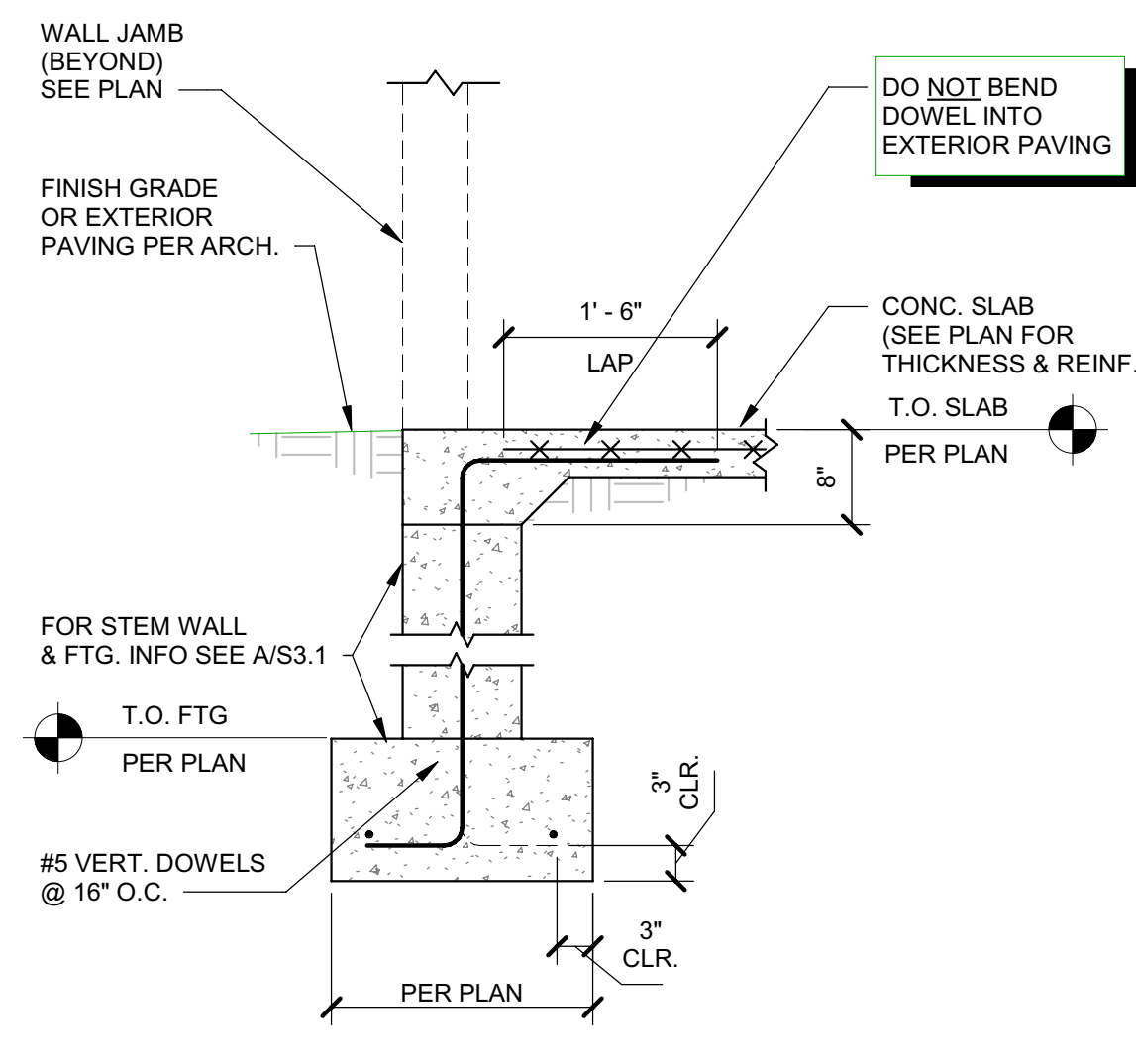
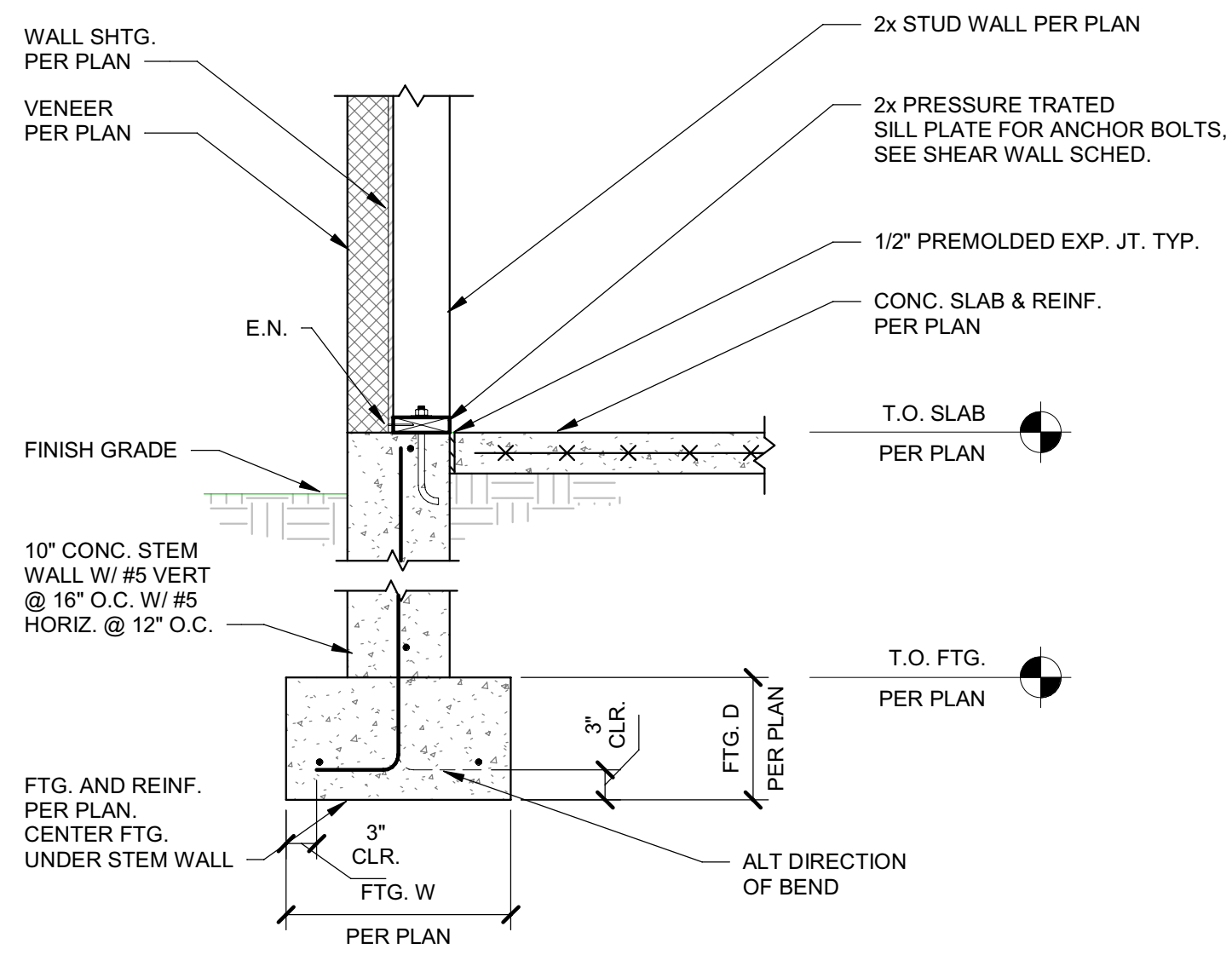
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S3.0
TYPICAL FOUNDATION
DETAILS



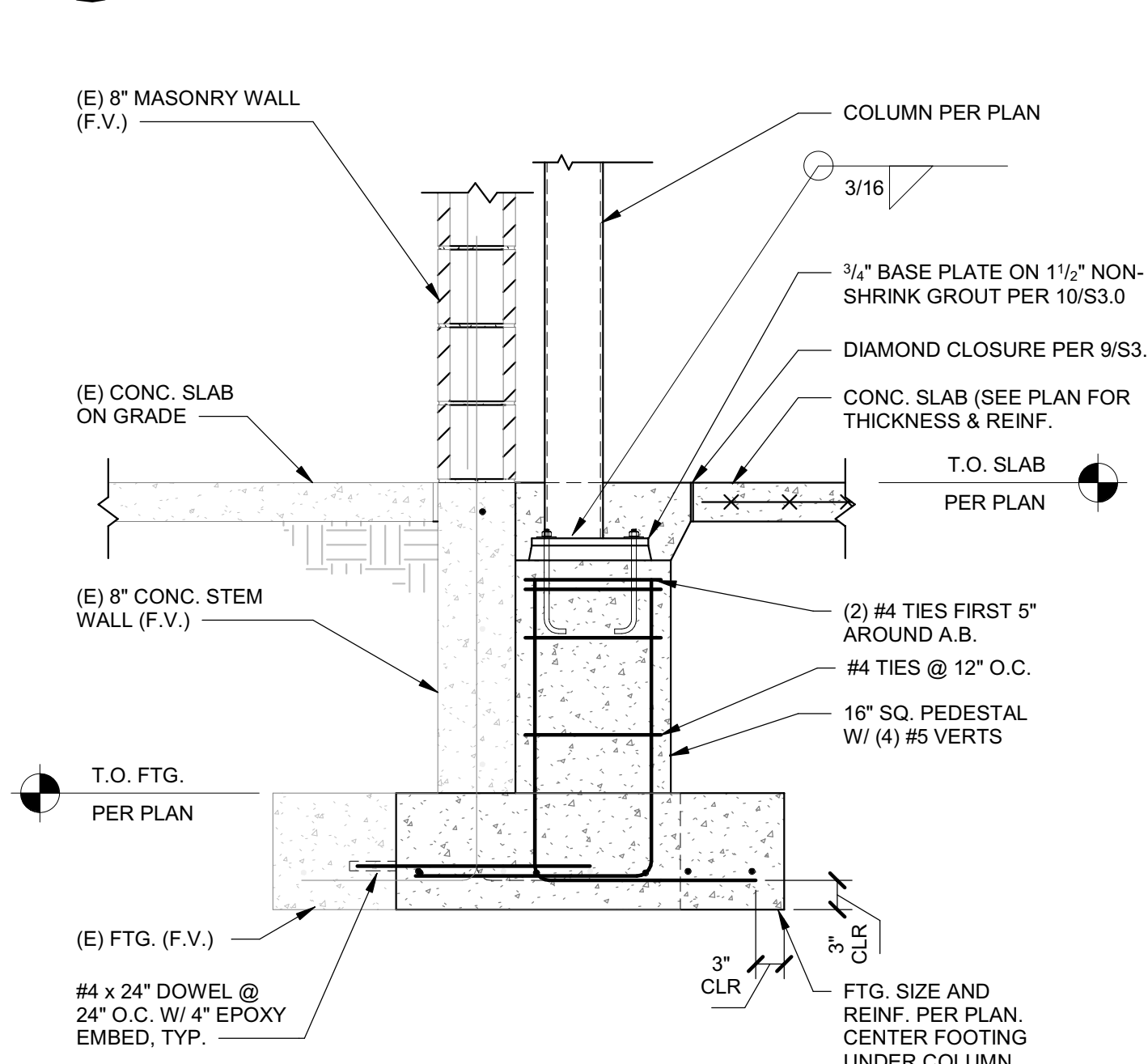
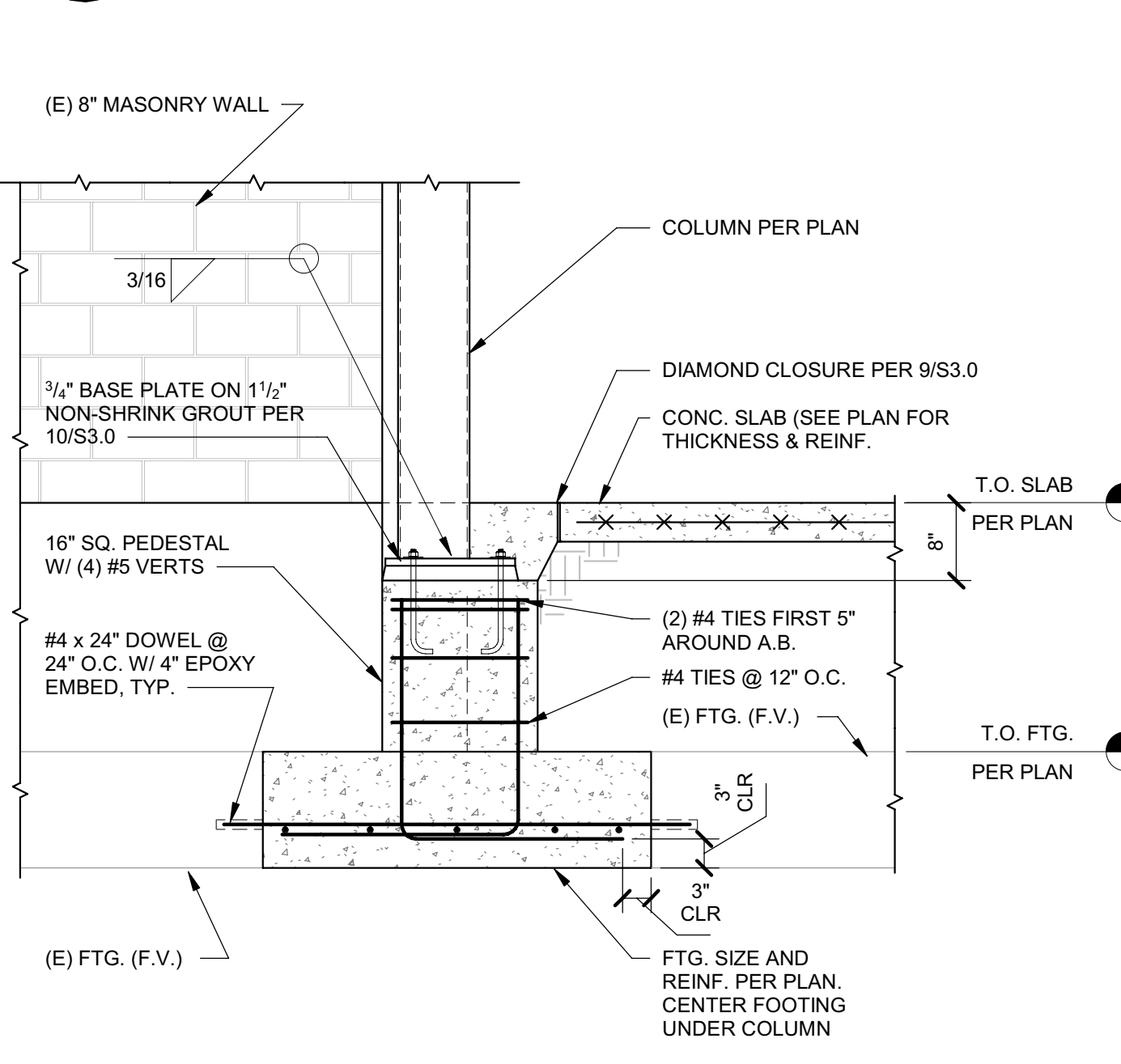
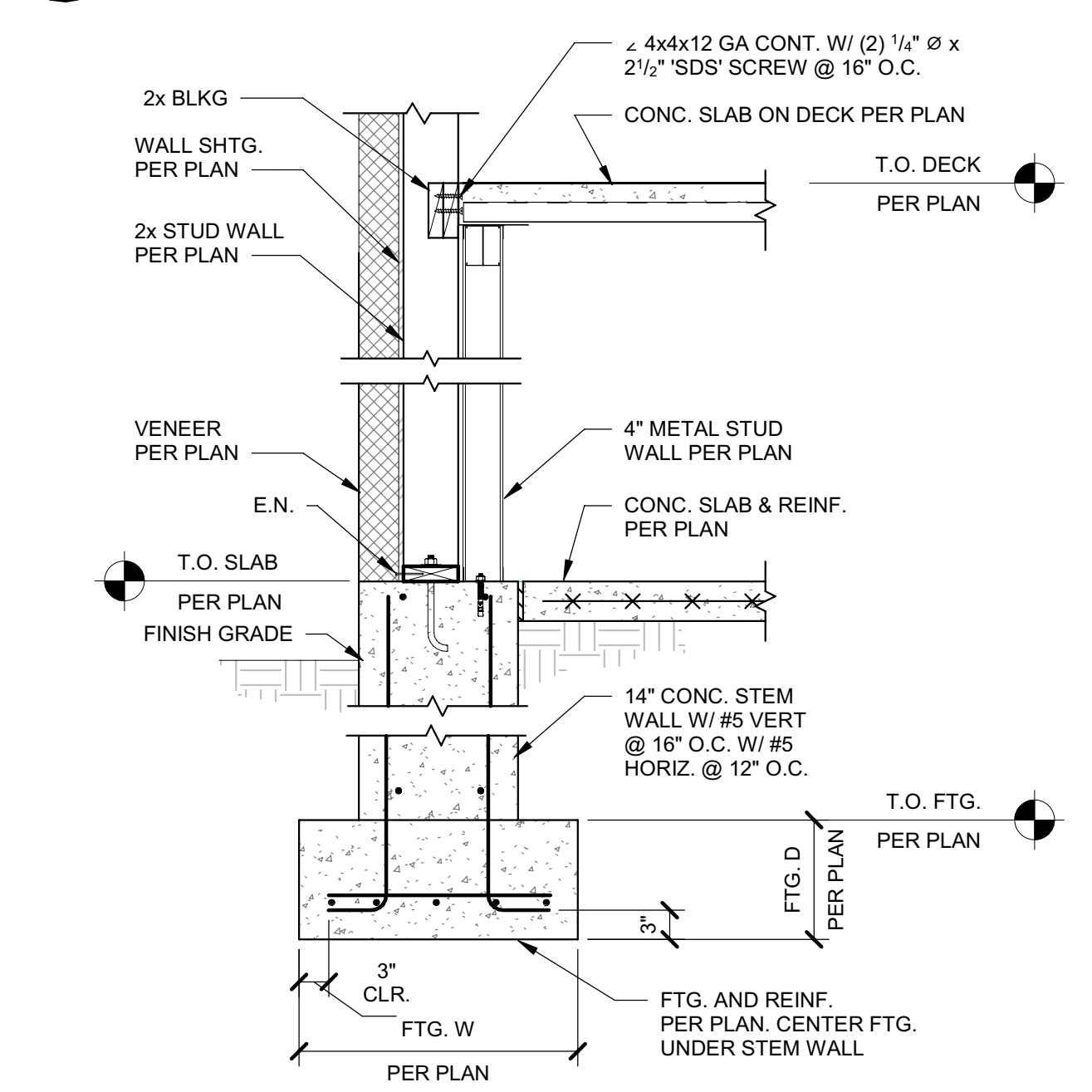
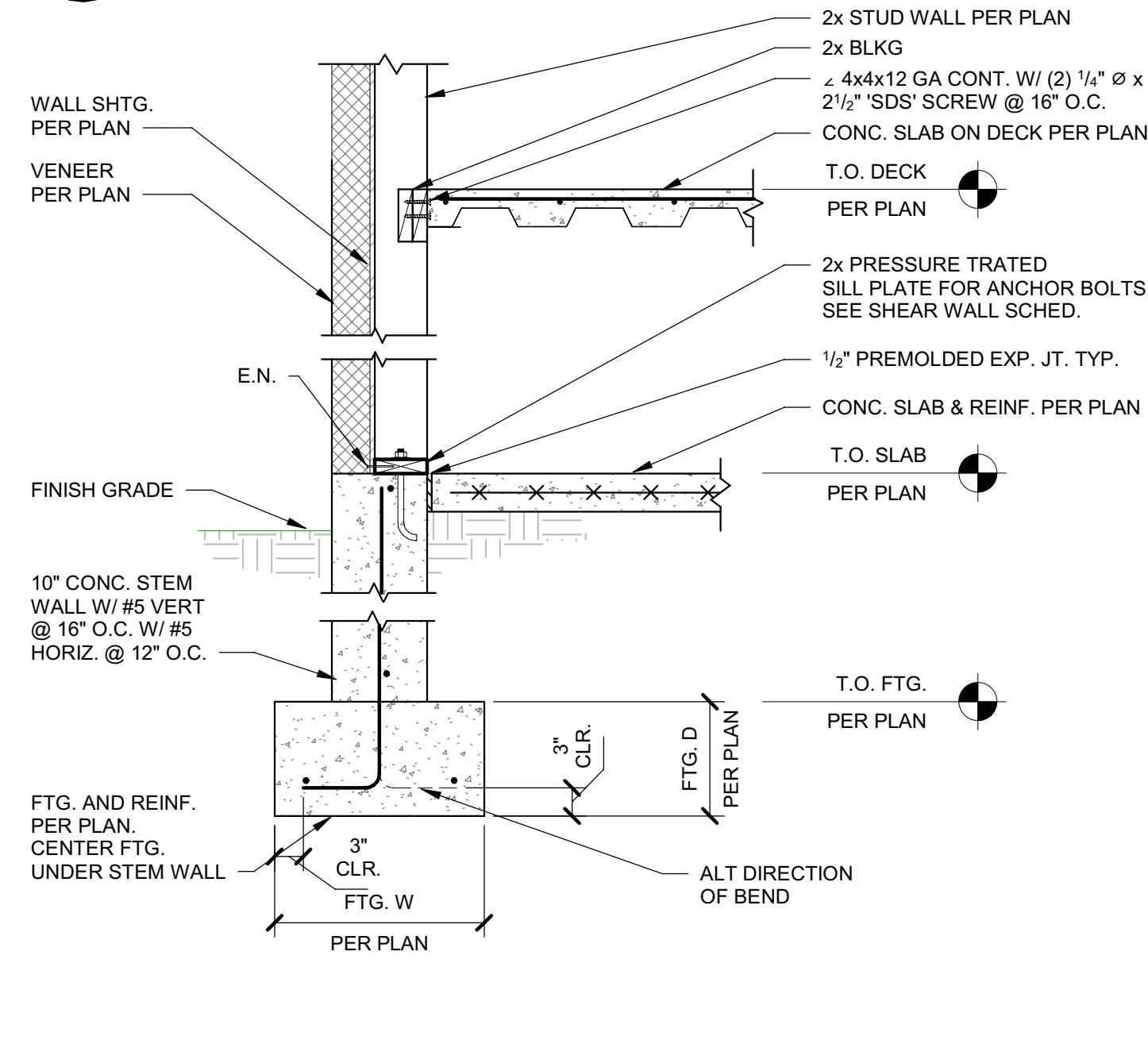


A S3.1 EXTERIOR WOOD WALL FOOTING SCALE: 3/4" = 1'-0"

B S3.1 SECTION @ DOOR FOOTING SCALE: 3/4" = 1'-0"

C S3.1 INTERIOR WOOD WALL FOOTING SCALE: 3/4" = 1'-0"

D S3.1 INTERIOR WOOD POST FOOTING SCALE: 3/4" = 1'-0"



E S3.1 EXTERIOR WOOD WALL FOOTING @ STAGE SCALE: 3/4" = 1'-0"

F S3.1 EXTERIOR WOOD WALL FOOTING @ RAMP SCALE: 3/4" = 1'-0"

K S3.1 FOOTING & PEDESTAL @ (E) MASONRY WALL SCALE: 3/4" = 1'-0"

L S3.1 FOOTING & PEDESTAL @ (E) MASONRY WALL SCALE: 3/4" = 1'-0"

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HORIZON ELEMENTARY ADDITION
JEROME SCHOOL DISTRICT #261
934 10TH AVE EAST, JEROME, IDAHO

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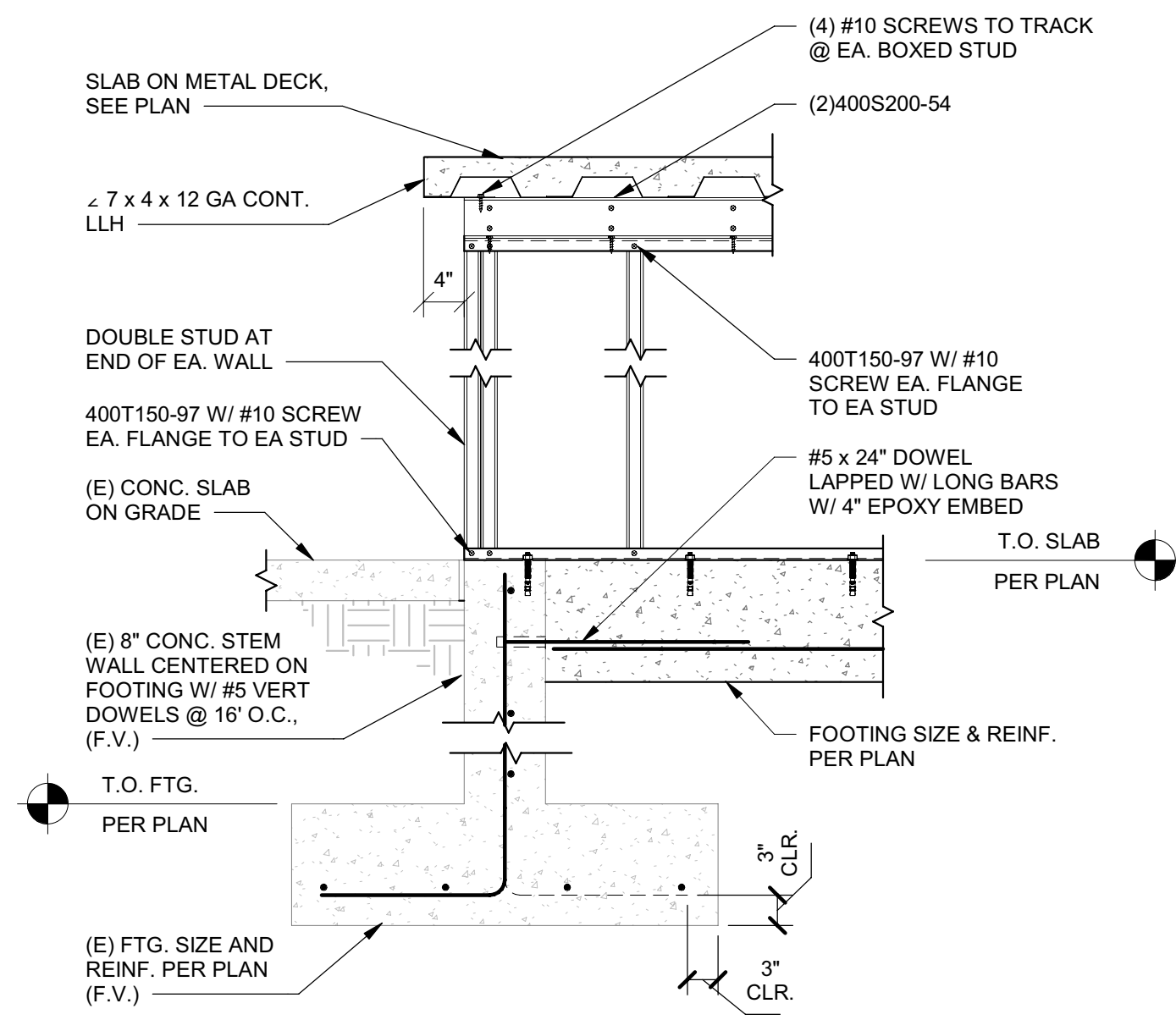
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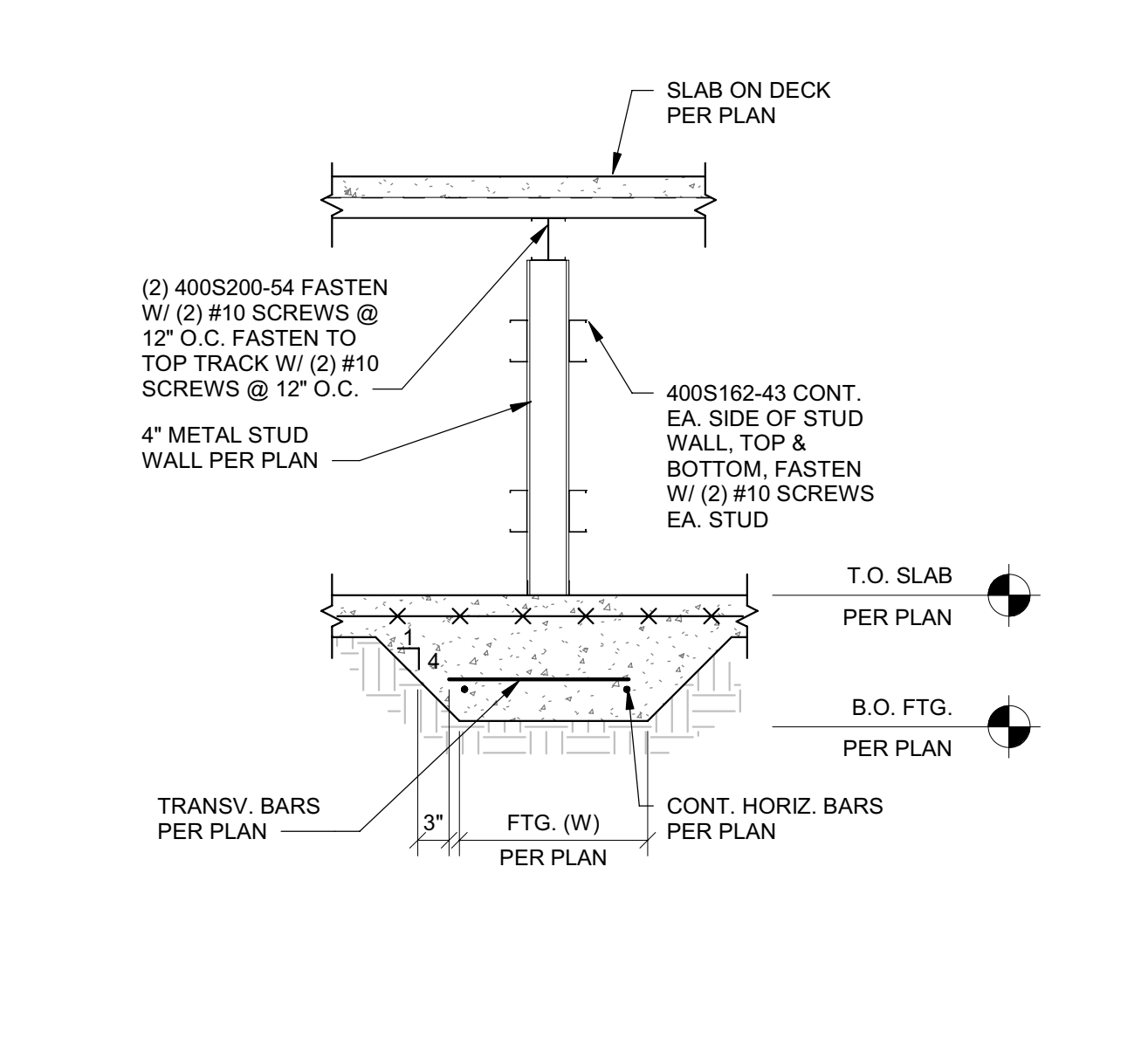
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FOUNDATION DETAILS

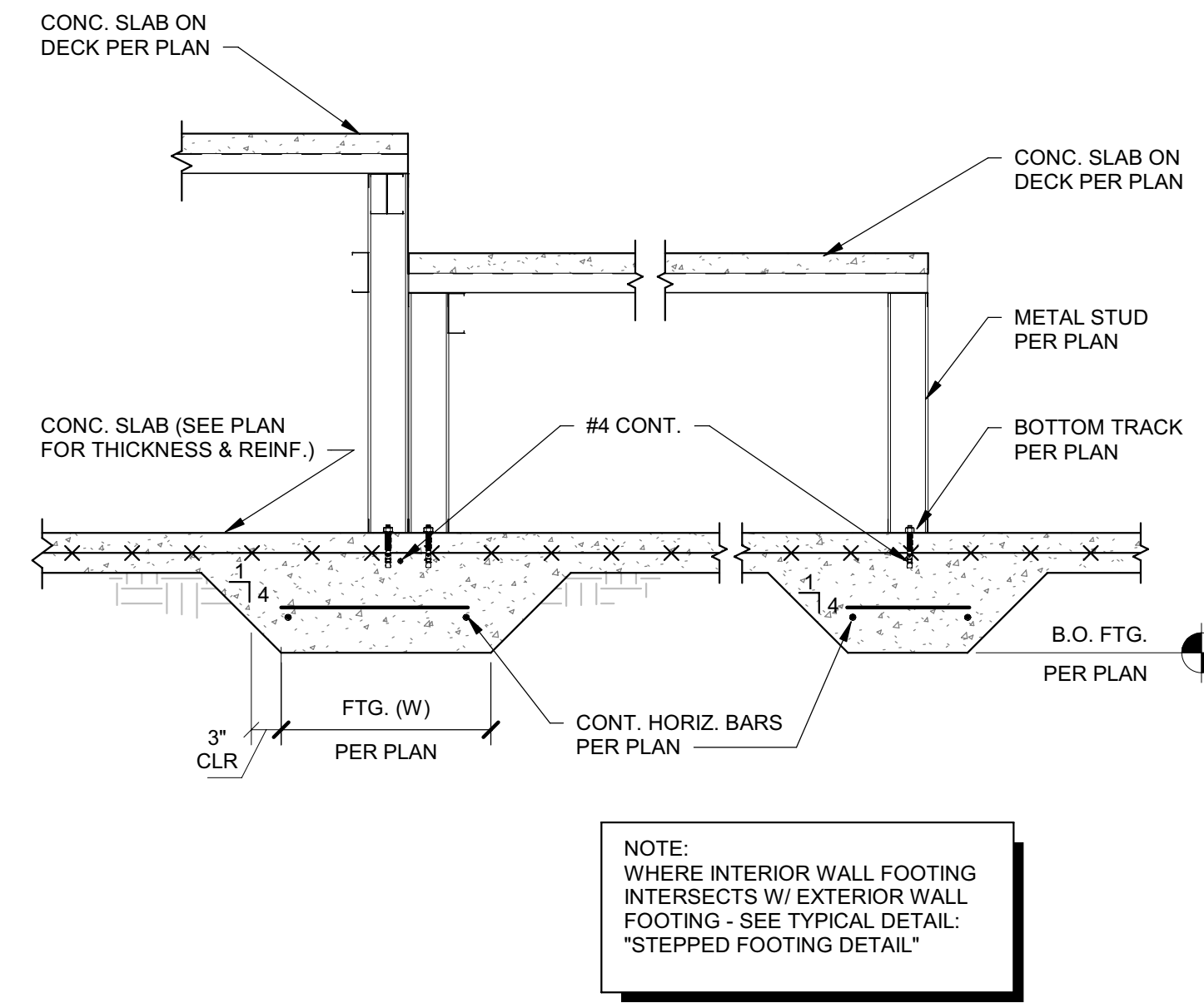
BLD2112-00033
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This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes and standards, Street laws or rules applicable to the project.
McClendon Engineering Inc.
Professional Engineer, Idaho License #10722
2400 E. Riverwalk Drive, Boise, Idaho 83706
208.336.3443



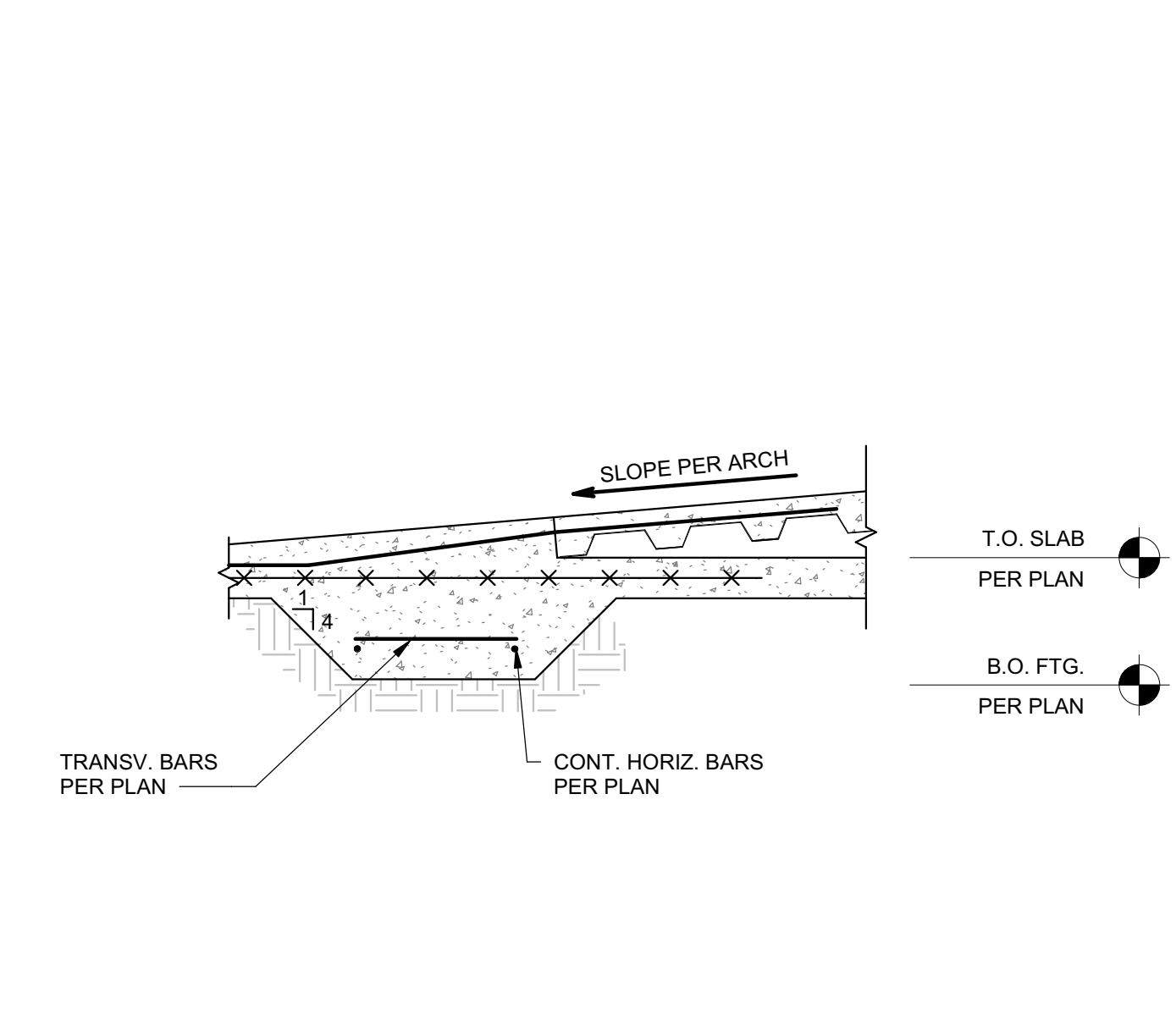
A EXISTING WALL FOOTING @ EDGE OF DECK
S3.2 SCALE: 3/4" = 1'-0"



B INTERIOR WALL FOOTING
S3.2 SCALE: 3/4" = 1'-0"

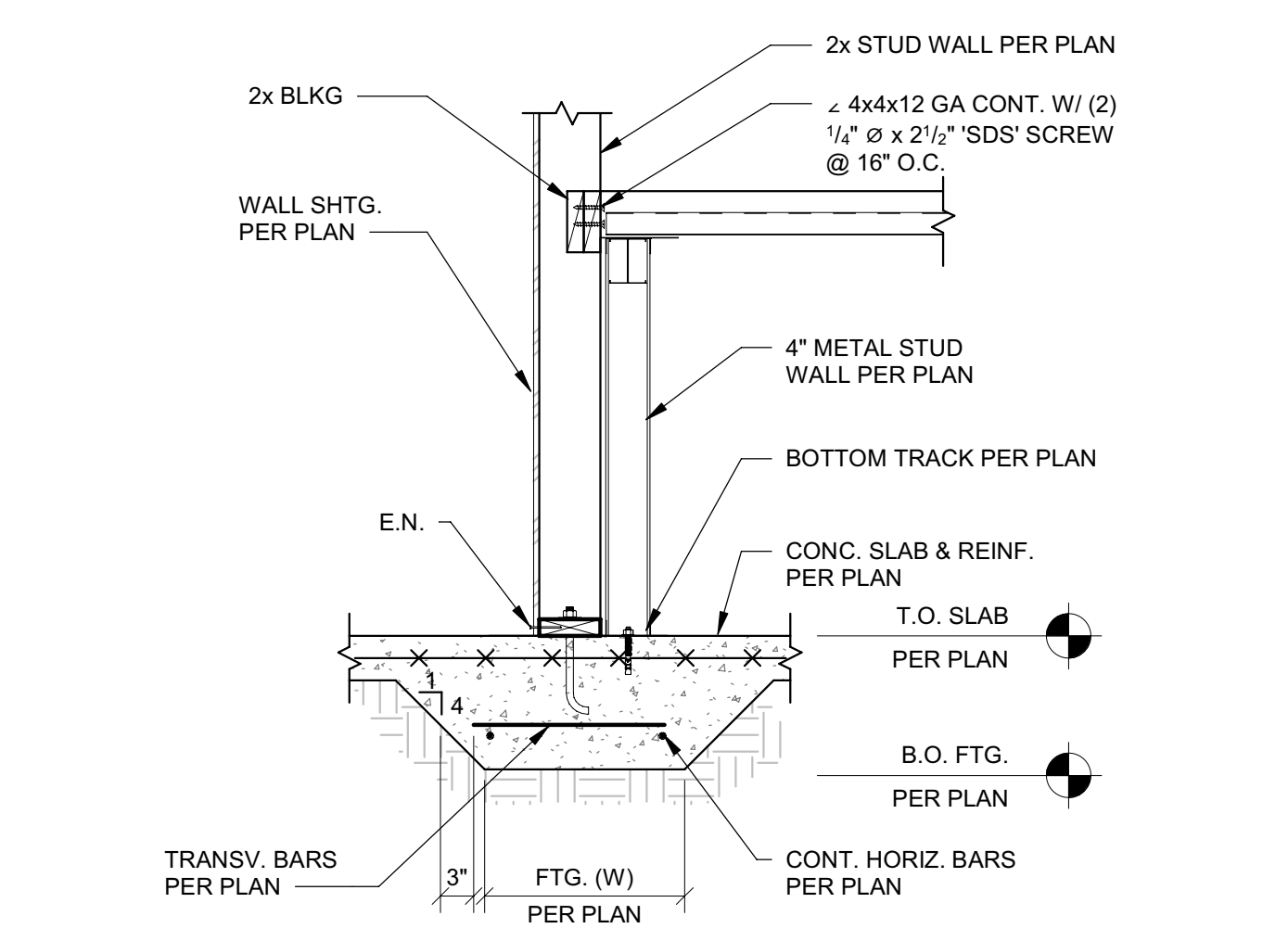


C INTERIOR WALL FOOTING @ RAMP
S3.2 SCALE: 3/4" = 1'-0"

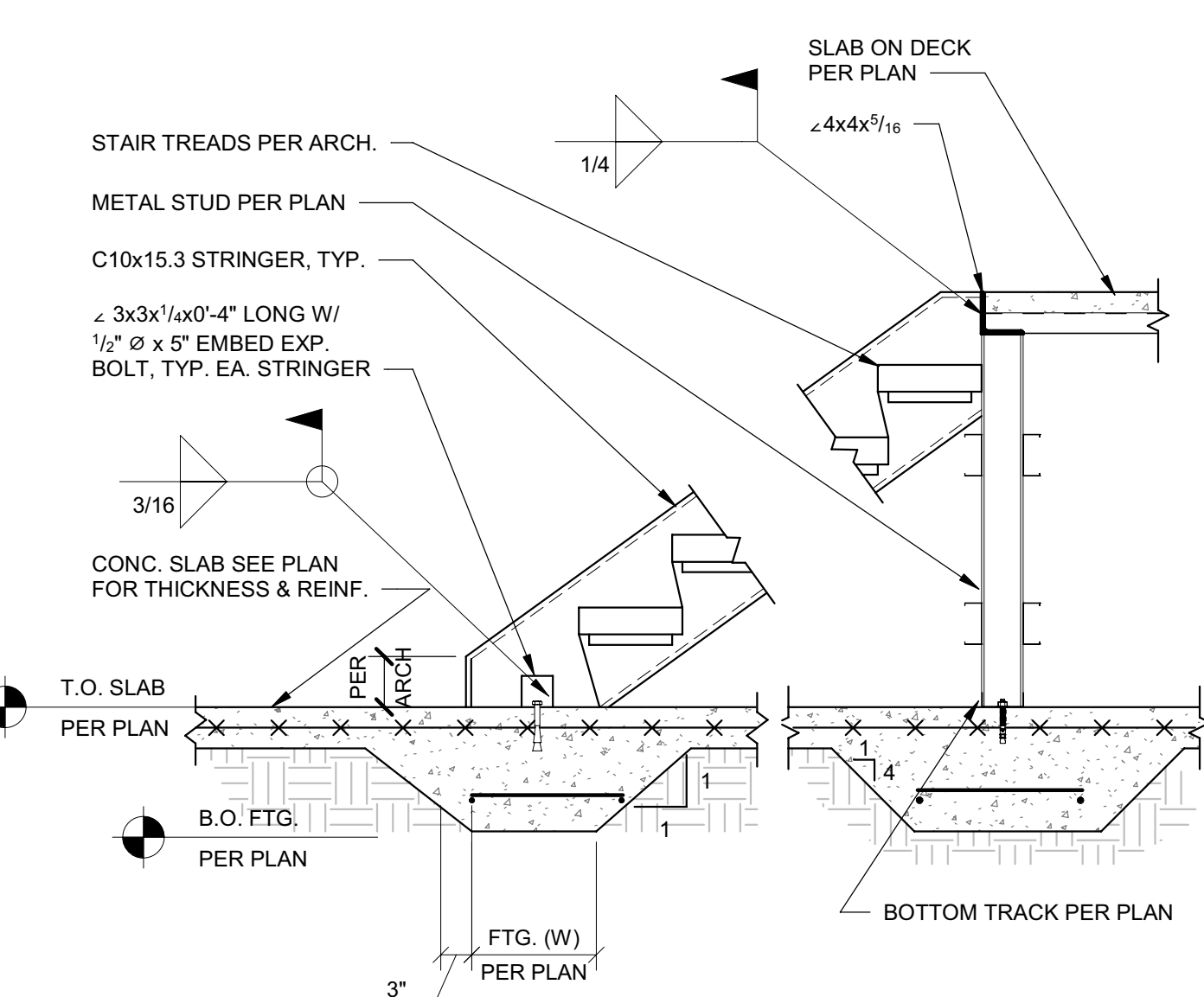


D INTERIOR WALL FOOTING @ RAMP
S3.2 SCALE: 3/4" = 1'-0"

NOTE:
WHERE INTERIOR WALL FOOTING INTERSECTS W/ EXTERIOR WALL FOOTING - SEE TYPICAL DETAIL: "STEPPED FOOTING DETAIL"



E EXTERIOR WOOD WALL FOOTING @ RAMP
S3.2 SCALE: 3/4" = 1'-0"



F EXTERIOR STAIR FOOTING
S3.2 SCALE: 3/4" = 1'-0"



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DRAWING NO.:

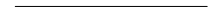
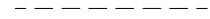



S3.2
FOUNDATION DETAILS

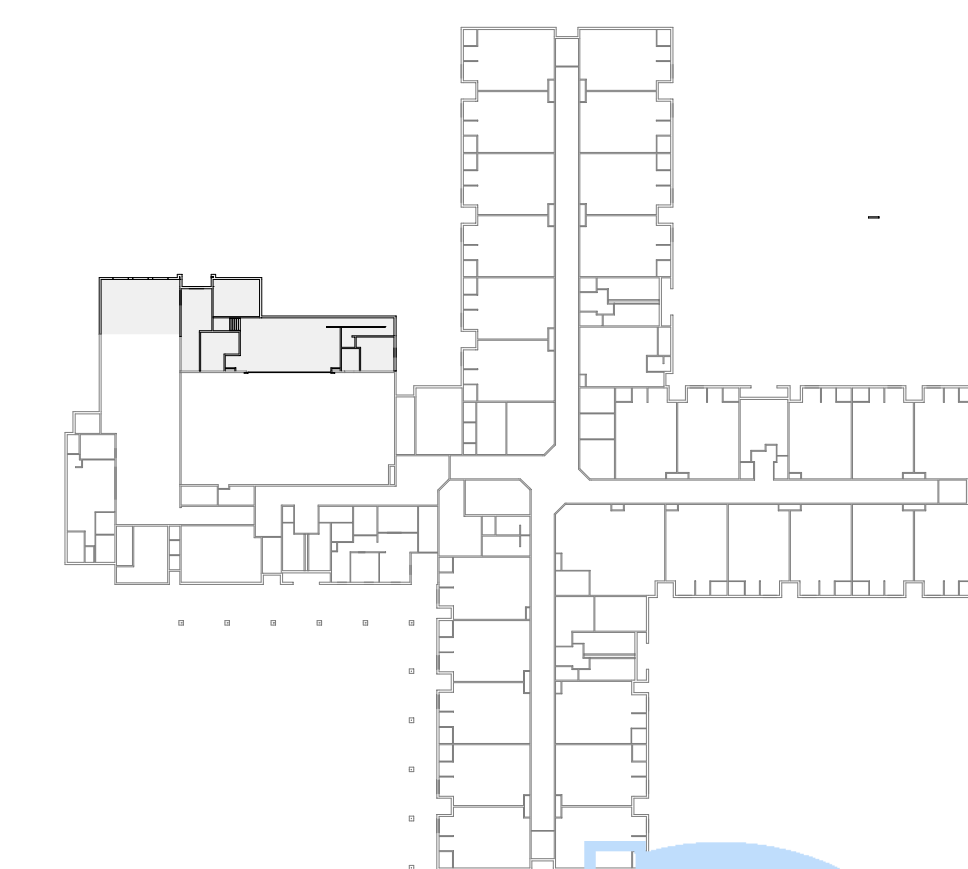
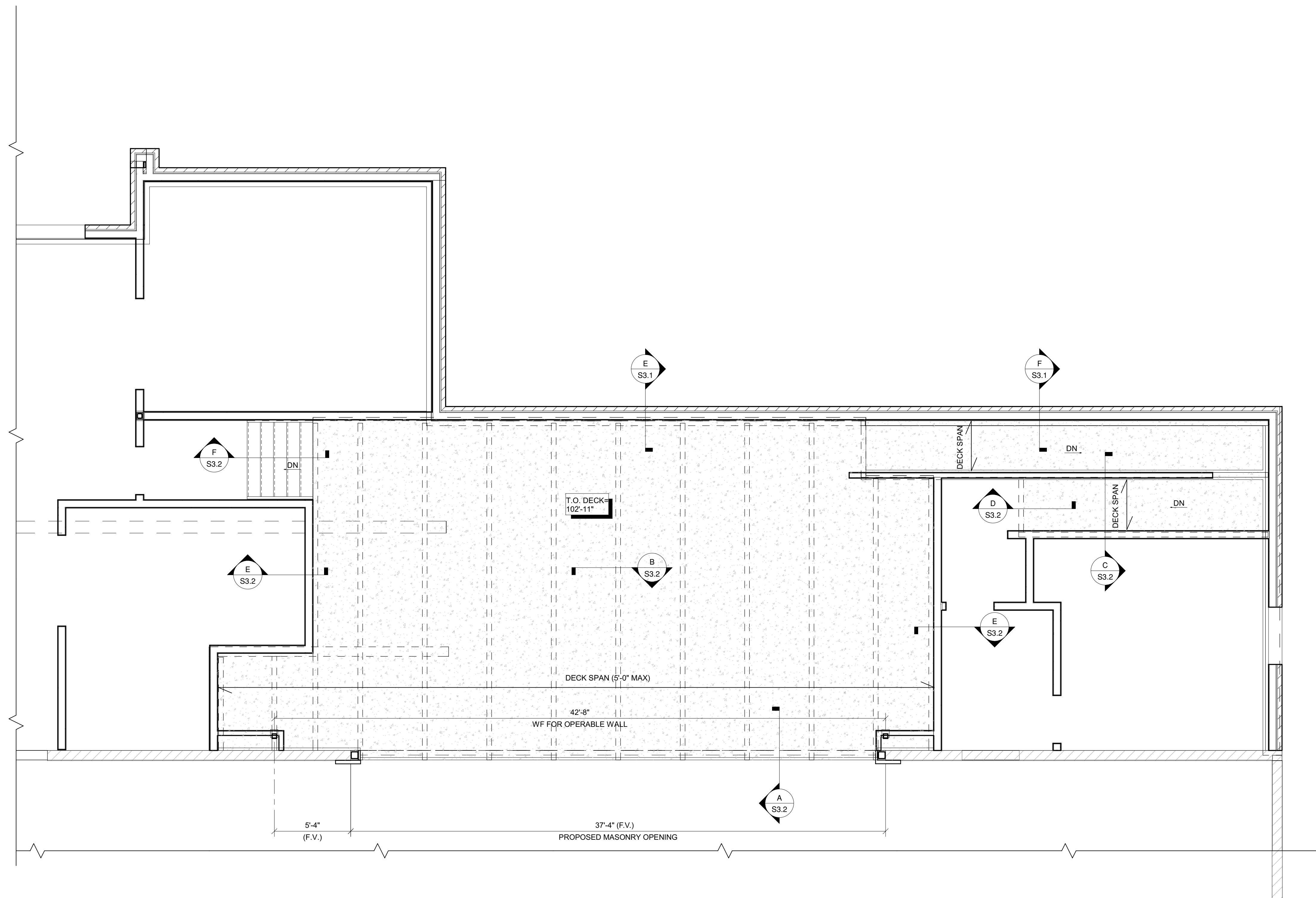
BLD2112-00033
REVIEWED FOR CODE COMPLIANCE
This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes and standards, Street laws or rules applicable to this project.
McClendon Engineering Inc. 83702
10719
Fax: 208.331.4568

FLOOR FRAMING PLAN NOTES:

- FOR ANY ADDITIONAL DIMENSIONS NOT SHOWN, SEE ARCH PLANS. NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- FOR ANY DIMENSION DISCREPANCIES FOUND BETWEEN THE ARCH. PLANS AND THESE PLANS USE THE DIMENSIONS FROM THE ARCH. PLANS. NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.
- STRUCTURAL WALLS ARE CONSIDERED TO BE ALL LOAD BEARING WALLS, SHEAR WALLS AND ANY WALL THAT REQUIRES A FOOTING.
- FOR GENERAL STRUCTURAL NOTES, SEE SHEET S1.0 & S1.1.
- FOR TYPICAL FRAMING DETAILS, SEE SHEET S6.0.
- FOR TOP PLATE SPLICE DETAIL, SEE SHEET 2/S6.0.
- T.O.B. = TOP OF BEAM ELEVATION
- T.O.SHTG = TOP OF SHEATHING ELEVATION
- T.O.W. = TOP OF WALL ELEVATION
- DIMENSIONS ON EXISTING MEMBERS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- (E) = EXISTING FRAMING MEMBER
- (F.V.) = FIELD VERIFY DIMENSION OR EXISTING FRAMING CONDITION
- CONCRETE FLOOR DECK: 1 1/2 INCH - 18 GAUGE TYPE B FORMLOCK METAL COMPOSITE DECK W/ 2 1/2" DEEP NORMAL WEIGHT CONCRETE (4" TOTAL DEPTH). PROVIDE (7) SIMPSON XM #12 SCREWS PER PANEL & SIMPSON XM #12 SCREWS @ 12" O.C. AT EACH SUPPORT AND TOP SEAM BUTT PUNCH SIDE UP @ 18" O.C. MAXIMUM, PER MANUFACTURER'S INSTRUCTIONS.

FLOOR FRAMING PLAN LEGEND:

-  INDICATES WOOD STUD WALL.
-  INDICATES STEEL STUD WALL BELOW.
-  INDICATES EXISTING 8" MASONRY WALL.
-  INDICATES VENEER.
-  INDICATES STEEL HSS 6x6x7/8 COLUMN, U.N.O.



1 STAGE FLOOR FRAMING PLAN
1/4" = 1'-0"



2400 E. Riverwalk Drive
Boise, Idaho 83706

www.lkvarchitects.com
208.336.3443



Revisions	Description	Date
#		

HORIZON ELEMENTARY ADDITION
JEROME SCHOOL DISTRICT #261
934 10TH AVE EAST, JEROME, IDAHO

DATE: 12/17/2021
MCE PROJECT #: 1098.21

DRAWN BY: Author
CHECKED BY: Checker

PERMIT SET

DRAWING NO.:

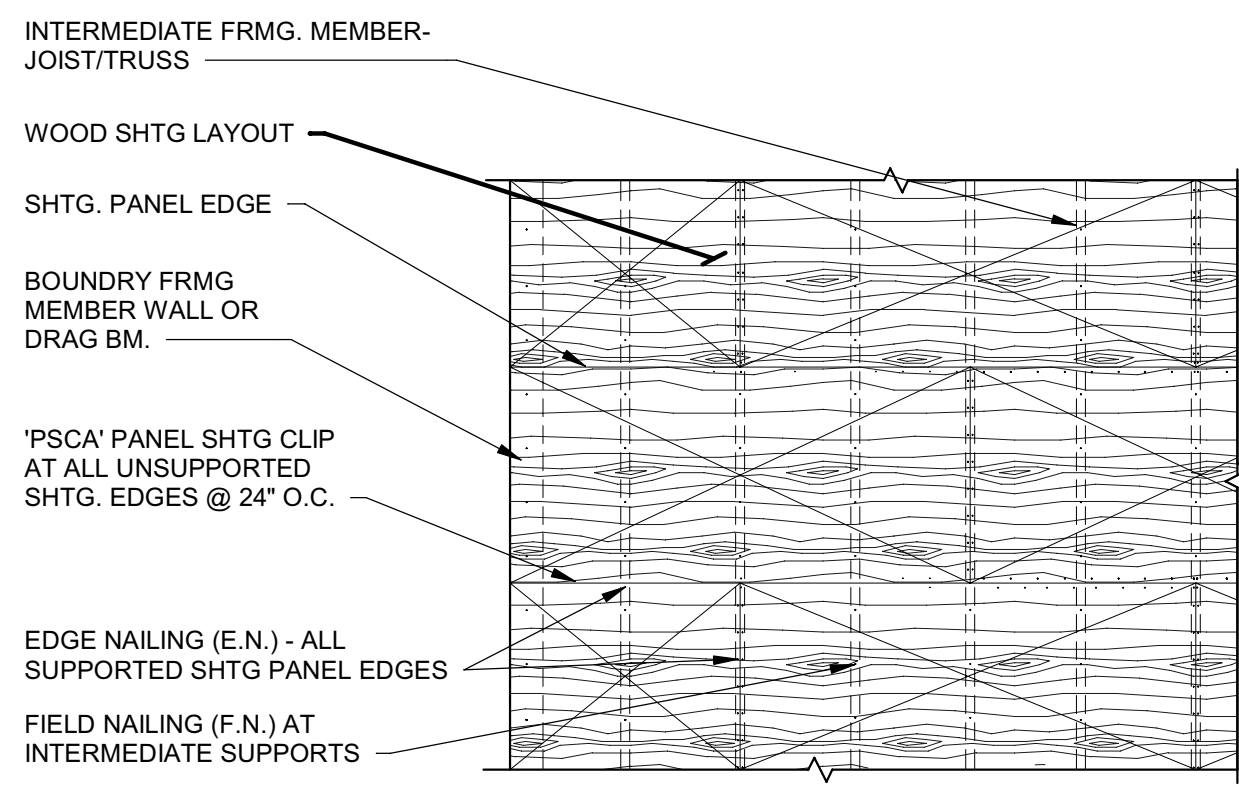
S4.0
STAGE FLOOR FRAMING
PLAN

BLD2112-00033

REVIEWED FOR CODE
COMPLIANCE

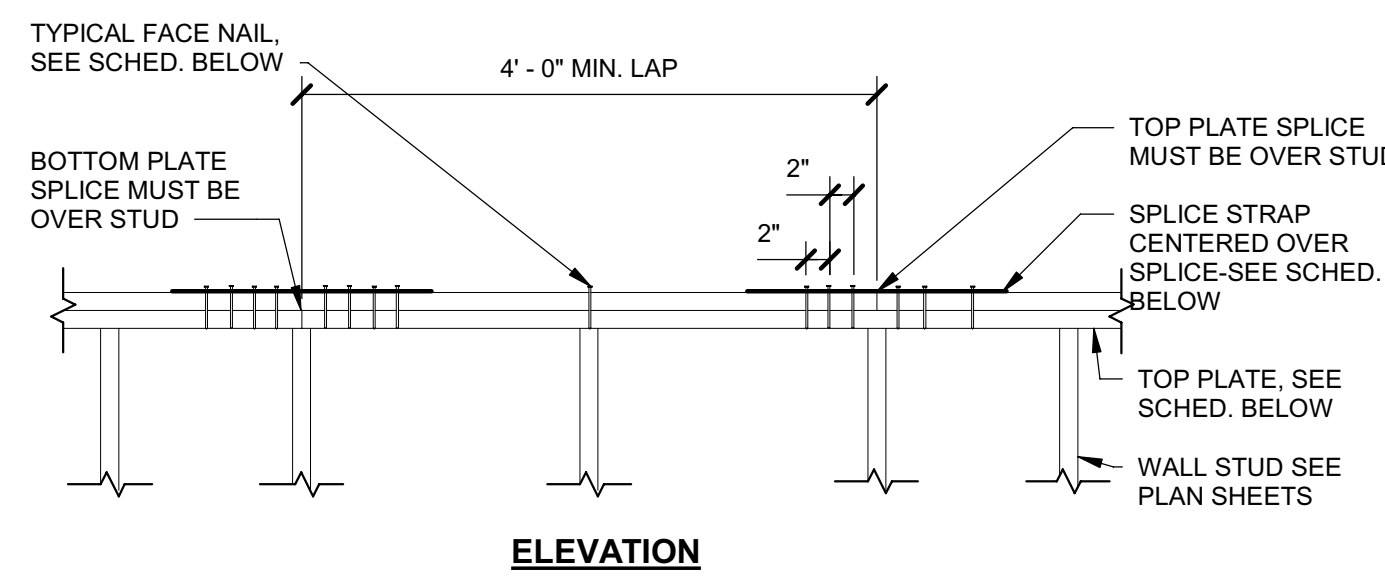
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McClendon
Engineering inc
2400 E. Riverwalk Drive, Boise, ID 83706
208.336.3443
Fax: 208.331.4568



- NAILING NOTES:**
- MIN. EDGE DISTANCE FOR NAILS SHALL BE 3/8"
 - NAIL HEAD SHALL NOT BREAK OUTER PLY OF SHEATHING
 - NAILS SHALL BE COMMON WIRE TYPE
 - PNEUMATIC DRIVEN FASTENERS MAY BE USED W/ ENGINEER APPROVAL.
 - BOUNDARY NAILING = E.N.ING, U.N.O.
- SHEATHING NOTES:**
- SEE PLAN AND STRUCTURAL NOTES FOR SHTG THICKNESS, GRADE, AND NAILING.
 - SHTG. PANELS SHALL BE APPLIED WITH LONG DIMENSION ACROSS JOISTS/TRUSSES
 - MIN. SHTG. SHEET SIZE SHALL BE 2'-0"x4'-0"
 - WOOD SHTG MAY BE EITHER OSB OR PLYWOOD - SEE STRUCTURAL NOTES.

1 UNBLOCKED DIAPHRAGM - ROOF/FLOOR FRMG
SCALE: 3/4" = 1'-0"



TOP PLATE SPLICE SCHEDULE

MARK	TOP PLATE	SPLICE STRAP CENTER ON SPLICE	TYP. FACE NAIL SIZE & NUMBER	NOTES
1	(2) 2x	'ST6215' STRAP W/ (20) 10d NAILS	16d @ 16" O.C.	TYP. AT _

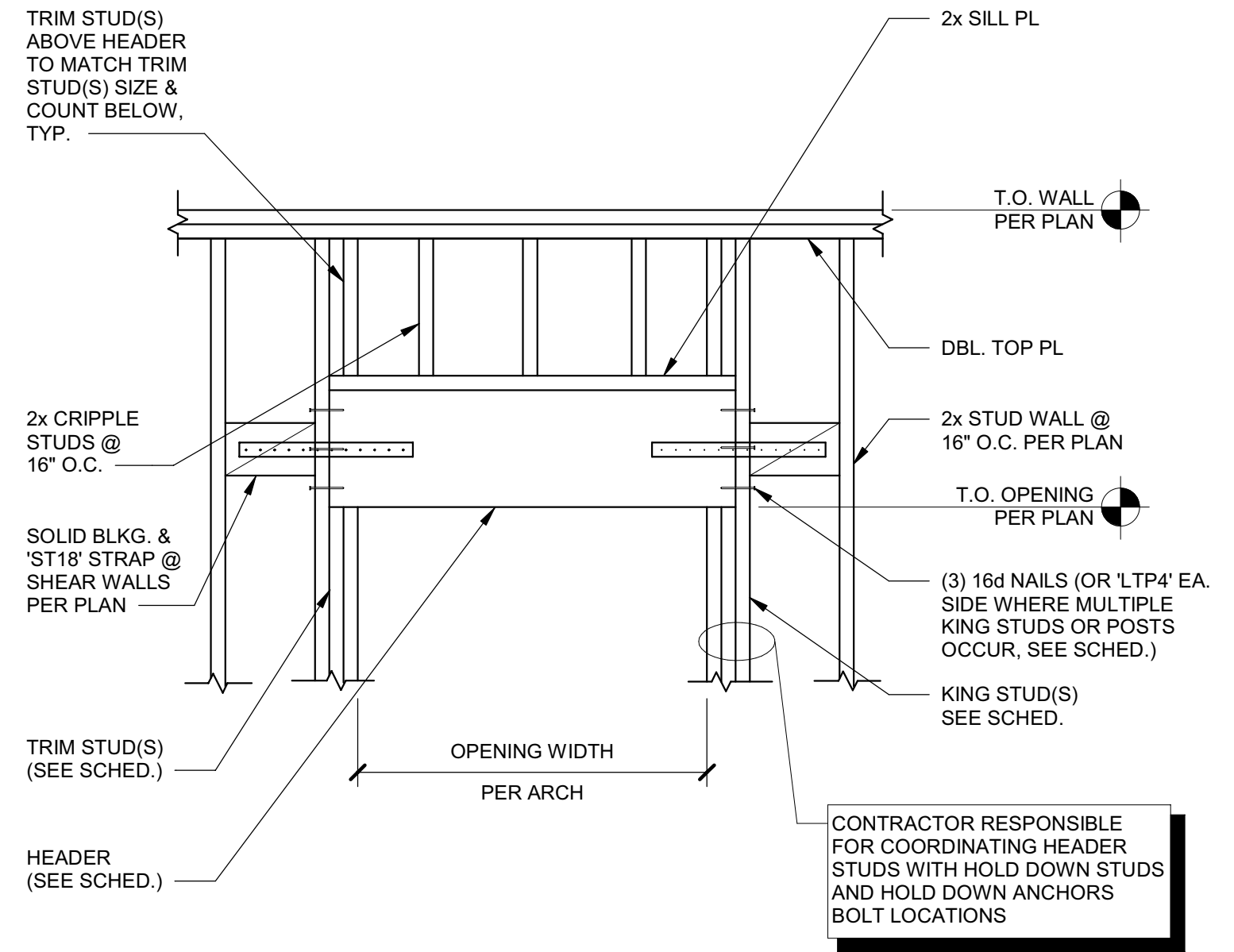
- NOTES:**
- FOR STRUCTURAL WOOD WALLS NOT MARKED, USE 1
 - THIS DETAIL AT ALL EXTERIOR WOOD WALLS, SHEAR WALLS, AND AS INDICATED ON PLAN SHEETS.
 - 16d NAILS = BOX NAILS: 3 1/2" LENGTH x 0.135" DIAMETER (MIN.)
 - 10d NAILS = COMMON NAILS: 3" LENGTH x 0.148" DIAMETER (MIN.)

2 TOP PLATE SPLICE SCHEDULE-METAL STRAP
SCALE: N.T.S.

WOOD HEADER SCHEDULE

HEADER MARK	MAX OPENING WIDTH	HEADER SIZE	TRIM STUD(S)	KING STUD(S)	NOTES
H1	6'-6"	6x10 DF-L#2	(2) 2x	(2) 2x	
H2	7'-0"	4x6 DF-L#2	(1) 2x	(2) 2x	

- NOTES:**
- WHERE BUILT-UP STUDS OR HEADER BEAMS ARE REQUIRED SEE FASTENING SCHEDULE PER IBC TABLE 2304.9.1
 - COMPARE KING STUDS W/ HOLD DOWN STUD/POST W/ SHEAR WALL PANEL EDGE FRAMING. LARGER SIZE GOVERNS.



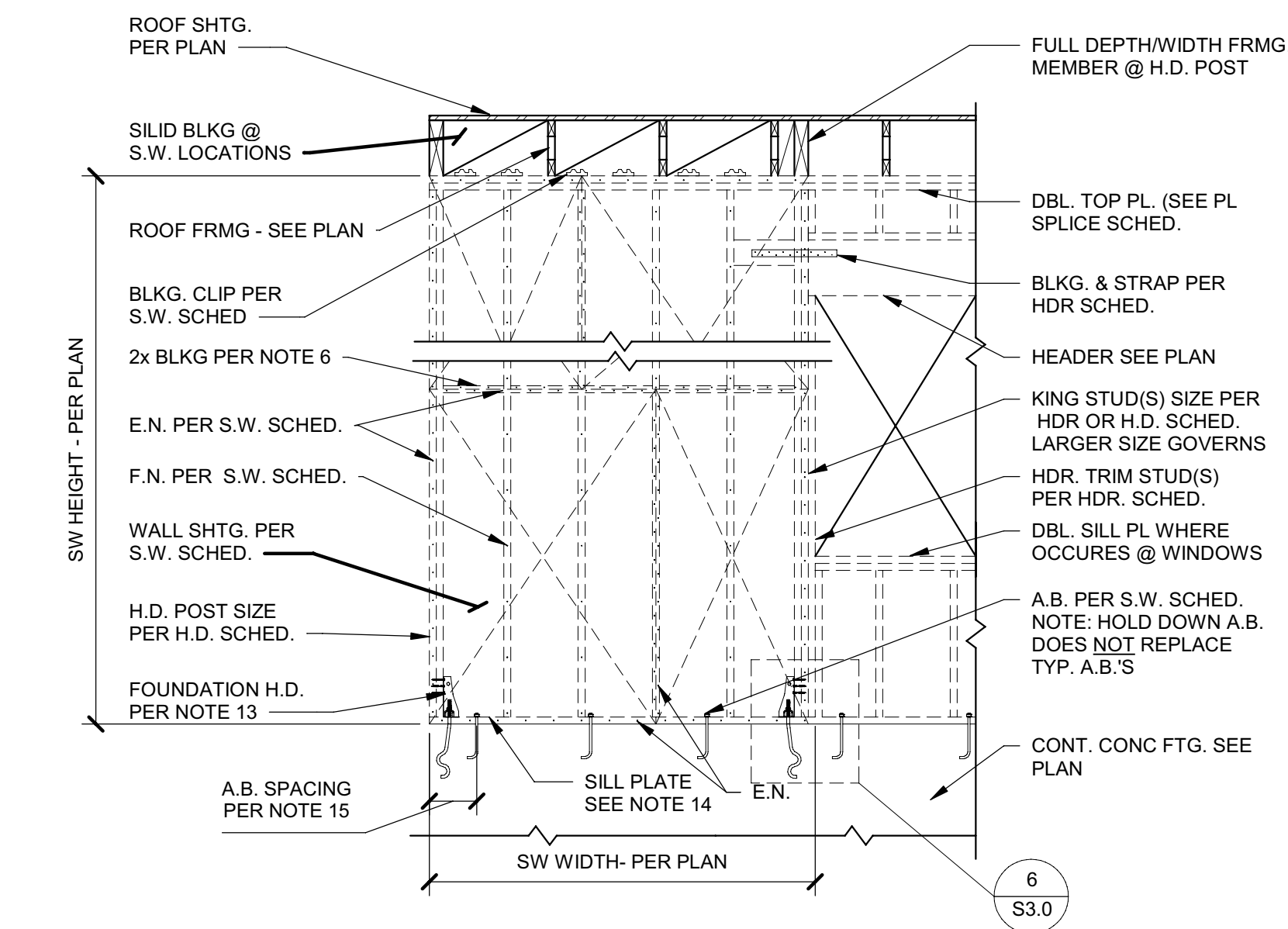
3 WOOD HEADER ELEVATION AND SCHEDULE
SCALE: N.T.S.

SHEAR WALL SCHEDULE: INDIVIDUAL FULL HEIGHT WALL SEGMENTS

MARK	PANEL E.N.ING	PANEL FIELD NAILING	PANEL EDGE FRAMING	APA RATED SHTG.	FOUNDATION SILL PLATE FASTENERS	BLKG CLIP	ALLOW SHEAR
1	8d @ 6" O.C.	8d @ 12" O.C.	2x	3/8" (1) SIDE	5/8"Ø x 7" EMBED A.B. @ 48" O.C.	'A35' @ 24" O.C.	260 PLF
2	8d @ 4" O.C.	8d @ 12" O.C.	2x	3/8" (1) SIDE	5/8"Ø x 7" EMBED A.B. @ 48" O.C.	'A35' @ 16" O.C.	380 PLF
3	8d @ 3" O.C.	8d @ 12" O.C.	2x	3/8" (1) SIDE	5/8"Ø x 7" EMBED A.B. @ 48" O.C.	'A35' @ 16" O.C.	490 PLF
4	8d @ 2" O.C.	8d @ 12" O.C.	2x	3/8" (1) SIDE	5/8"Ø x 7" EMBED A.B. @ 48" O.C.	'A35' @ 12" O.C.	640 PLF
5	8d @ 6" O.C.	8d @ 12" O.C.	2x	3/8" (2) SIDE	5/8"Ø x 7" EMBED A.B. @ 48" O.C.	'A35' @ 12" O.C.	520 PLF
6	8d @ 4" O.C.	8d @ 12" O.C.	2x	3/8" (2) SIDE	5/8"Ø x 7" EMBED A.B. @ 32" O.C.	'A35' @ 8" O.C.	760 PLF
7	8d @ 3" O.C.	8d @ 12" O.C.	2x	3/8" (2) SIDE	5/8"Ø x 7" EMBED A.B. @ 24" O.C.	'A35' @ 8" O.C.	980 PLF
8	8d @ 2" O.C.	8d @ 12" O.C.	2x	3/8" (2) SIDE	5/8"Ø x 7" EMBED A.B. @ 24" O.C.	'A35' @ 6" O.C.	1280 PLF

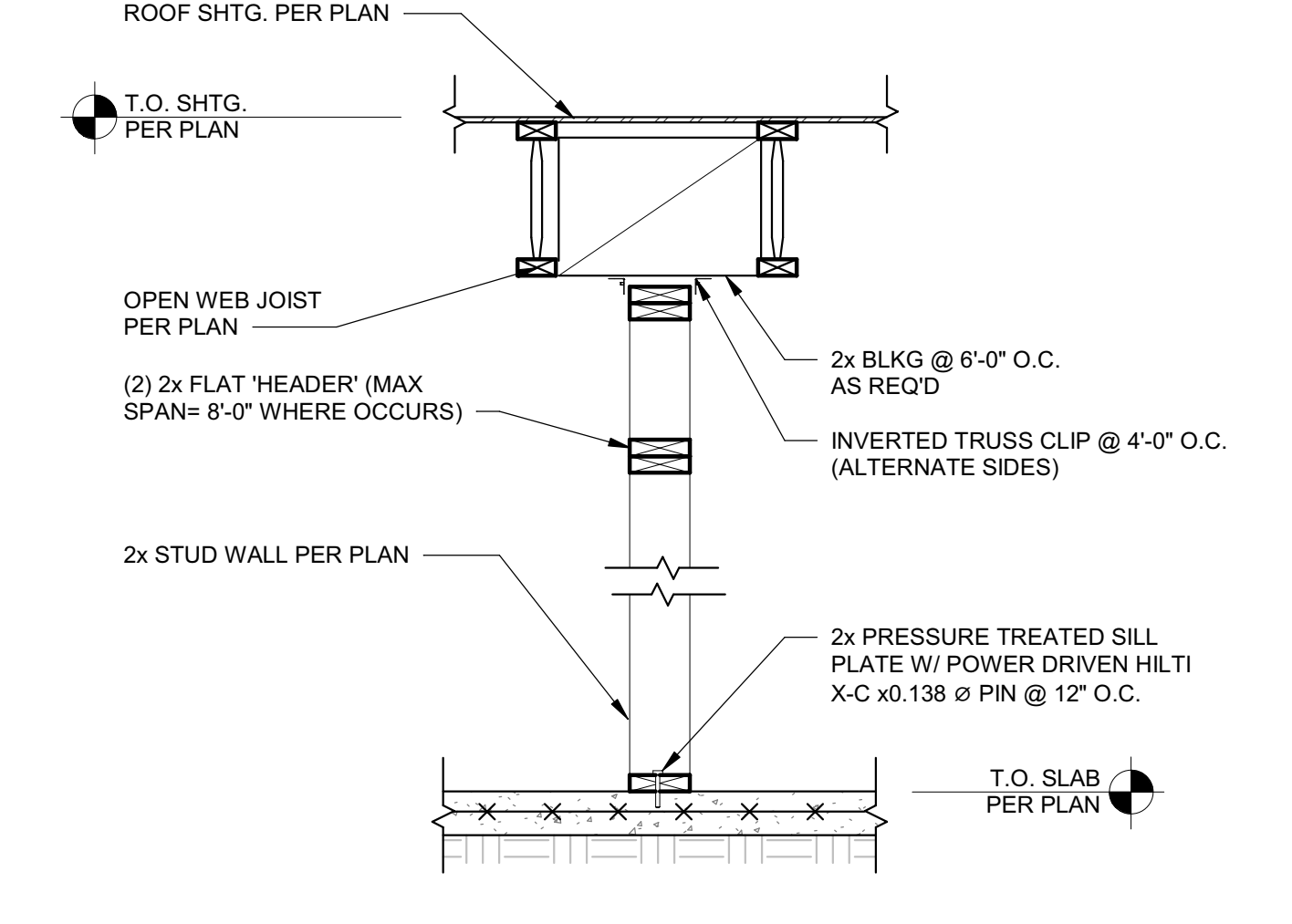
- SCHEDULE NOTES:**
- AT LOCATIONS W/ FULL WIDTH BLKG, LTP4 CLIPS MAY BE USED IN LIEU OF 'A35' EMBED LISTED FOR SILL PLATE FASTENERS IN MINIMUM EMBED INTO CONCRETE STEM WALL OR FOOTING.
 - AT STRUCTURAL WALLS OTHER THAN SHEAR WALLS USE THE SILL PLATE FASTENER FOR WALL TYPES 1

4 SHEAR WALL SCHEDULE: SINGLE STORY
SCALE: N.T.S.

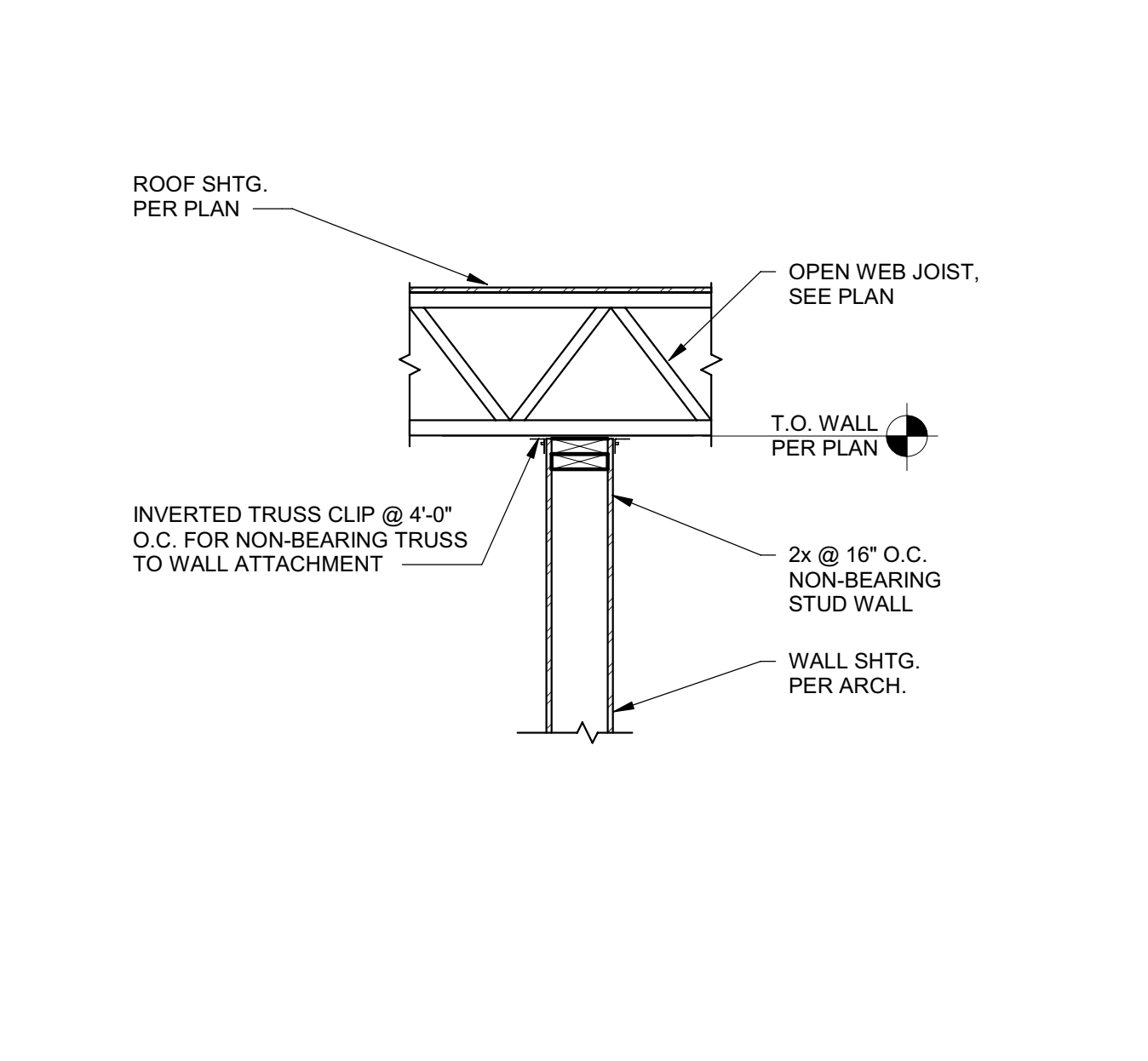


5 SHEAR WALL ELEVATION: SINGLE STORY: INDIVIDUAL FULL HEIGHT WALL SEGMENTS
SCALE: N.T.S.

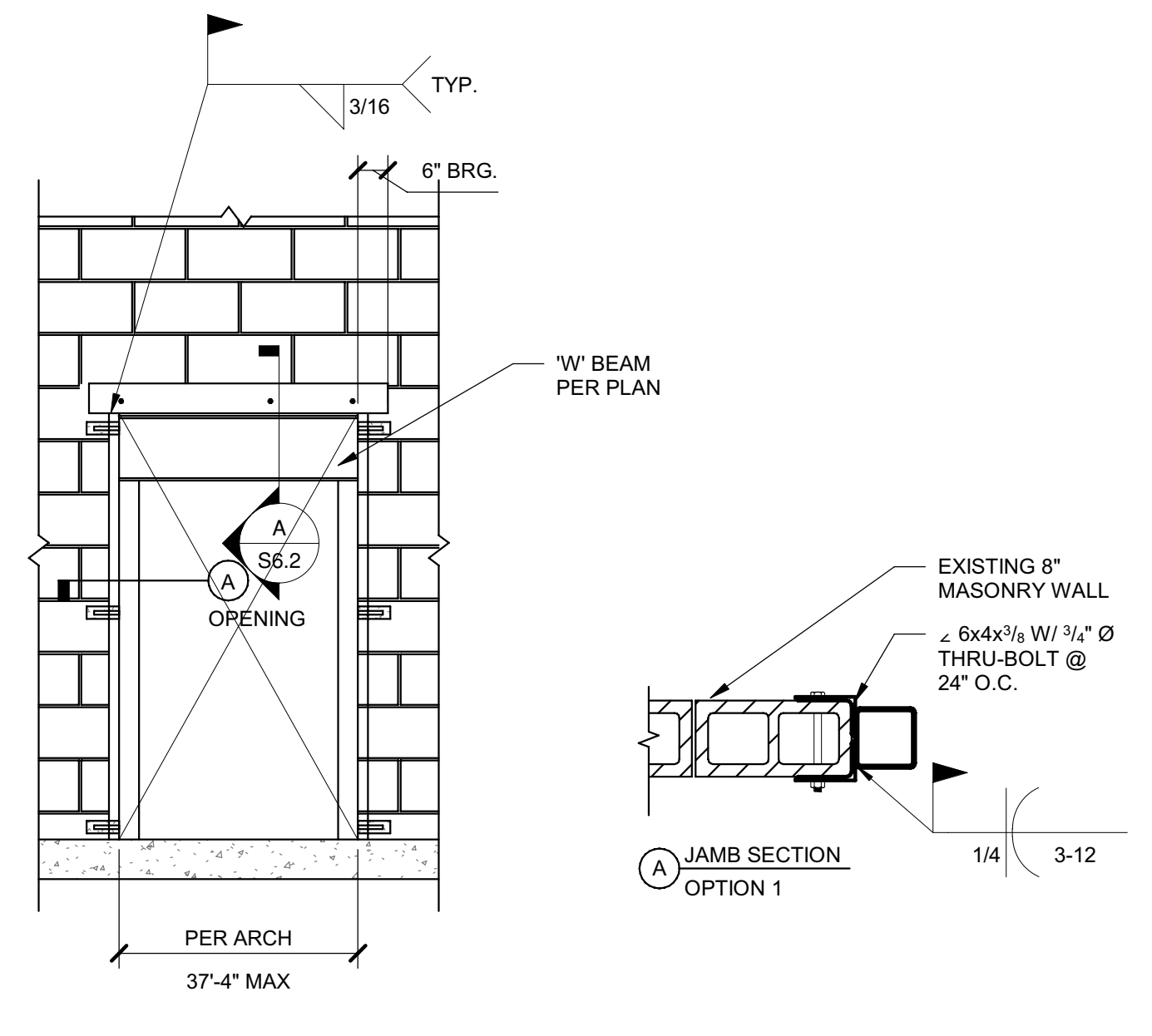
- GENERAL NOTES:**
- SHEAR WALL ELEVATION DEPICTS GENERAL FRAMING LAY OUT CONFIGURATION
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN FRAMING AND FOUNDATION PLANS, SHEAR WALL SCHEDULE, HOLD DOWN SCHEDULE, AND HEADER SCHEDULE. WHERE FRAMING SIZES ARE IN CONFLICT, THE LARGER FRAMING MEMBER SIZE SHALL GOVERN.
- SHEATHING & FRAMING NOTES:**
- FOR EXTERIOR WALLS NOT MARKED USE SW TYPE 1
 - SW = SHEAR WALL, HDR = HEADER, FRMG. = FRAMING
 - MIN. SHTG. SHEET SIZE SHALL BE 2'-0" x 4'-0"
 - 2x BLOCKING AT SHTG. PANEL EDGES, AT MID-HEIGHT OF WALL, OR 8'-0" O.C. MAX
- FASTENER & HARDWARE NOTES:**
- MIN. EDGE DISTANCE FOR NAILS SHALL BE 3/8"
 - NAIL HEAD SHALL NOT BREAK OUTER PLY OF SHTG.
 - NAILS SHALL BE COMMON WIRE TYPE, AND HOT DIPPED GALVANIZED
 - E.N. = E.N.ING, F.N. = FIELD NAILING-PER SW SCHED.
 - HD = HOLD DOWN, A.B. = ANCHOR BOLT-PER HD SCHED.
 - WHERE PANELS ARE APPLIED TO BOTH FACES OF THE WALL AND NAIL SPACING IS LESS THAN 6" O.C., NAILS ON EA SIDE SHALL BE STAGGERED.
 - FOUNDATION HOLD SIZE, TYPE, ANCHOR BOLT (WHERE REQ'D), AND EMBED INTO CONCRETE - SEE HD SCHEDULE & FOUNDATION HOLD DOWN DETAIL.
 - THERE SHALL BE A MINIMUM OF TWO A.B. PER EA. PIECE OF SILL PLATE.
 - LOCATE A.B. NO MORE THAN 12" & NO LESS THAN 4" FROM EA. END OF EA SILL PLATE.



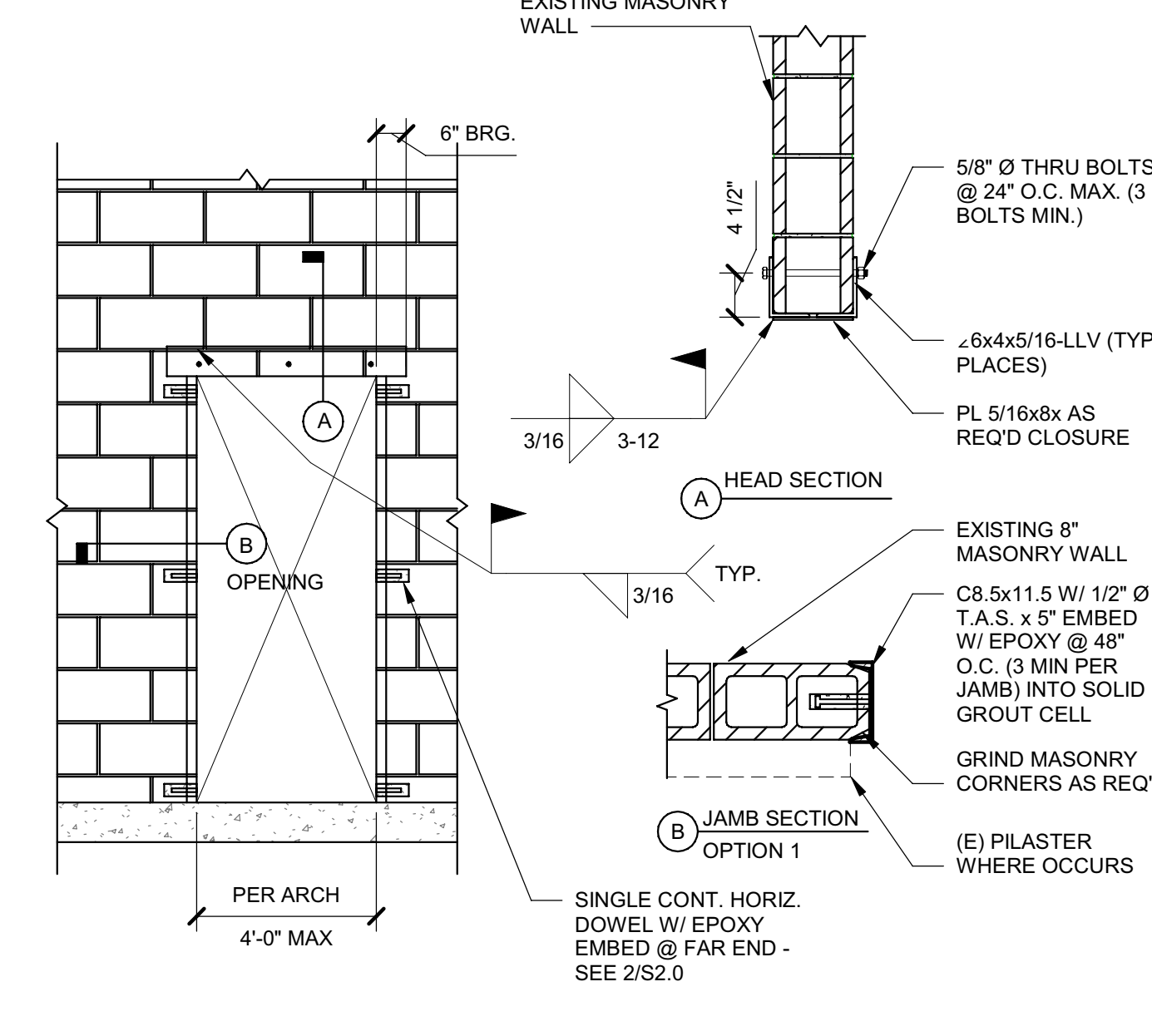
6 DETAIL @ NON-LOAD BEARING/FULL HT. WALL
SCALE: 3/4" = 1'-0"



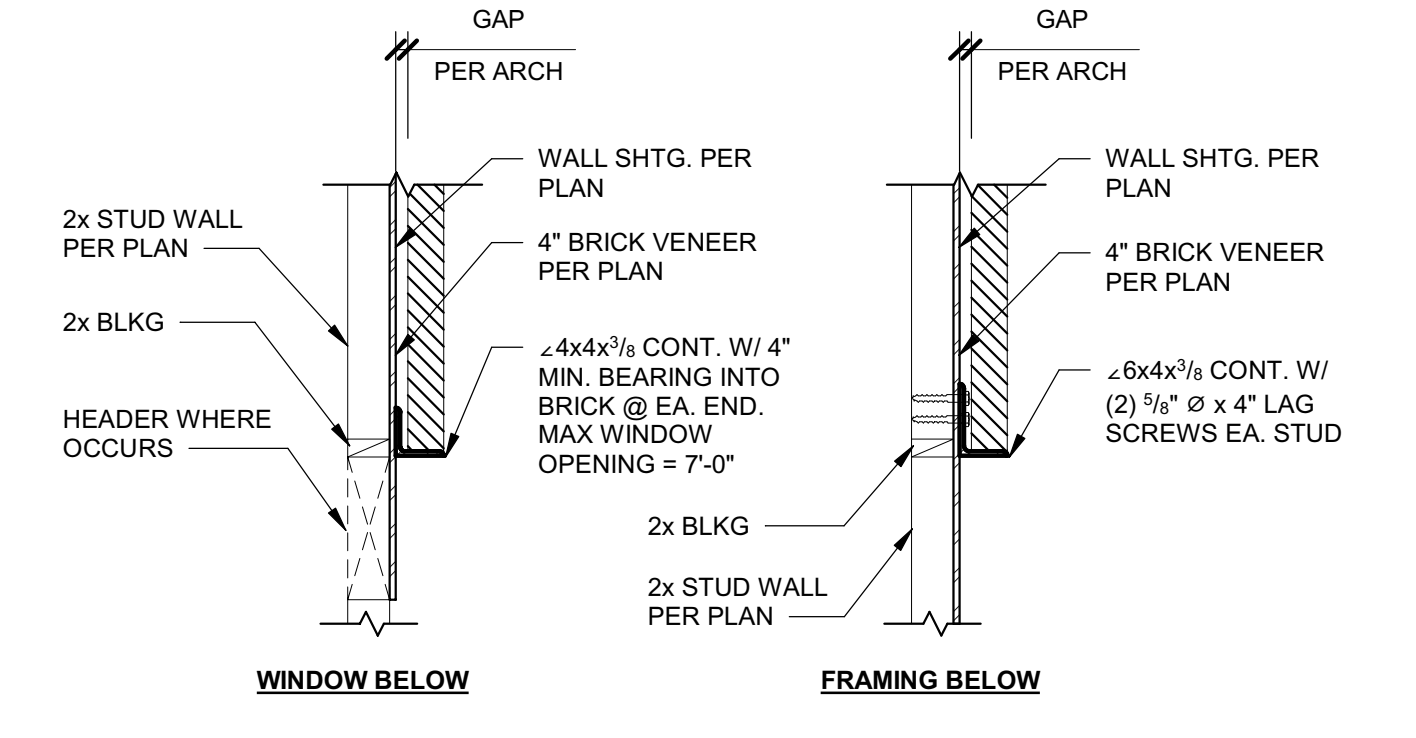
7 TRUSS @ NON-BEARING WALL
SCALE: 3/4" = 1'-0"



8 NEW OPENING IN EXISTING CMU WALL
SCALE: N.T.S.



9 NEW OPENING IN EXISTING CMU WALL
SCALE: N.T.S.



10 BRICK VENEER DETAIL @ WOOD WALL
SCALE: N.T.S.

LKV ARCHITECTS
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PROFESSIONAL ENGINEER
10722
STATE OF IDAHO
SARAH C. McCLENDON

Revisions	Date	Description
#		

**HORIZON ELEMENTARY ADDITION
JEROME SCHOOL DISTRICT #261**
934 10TH AVE EAST, JEROME, IDAHO

DATE: 12/17/2021
MCE PROJECT #: 1098.21

DRAWN BY: Author
CHECKED BY: Checker

PERMIT SET

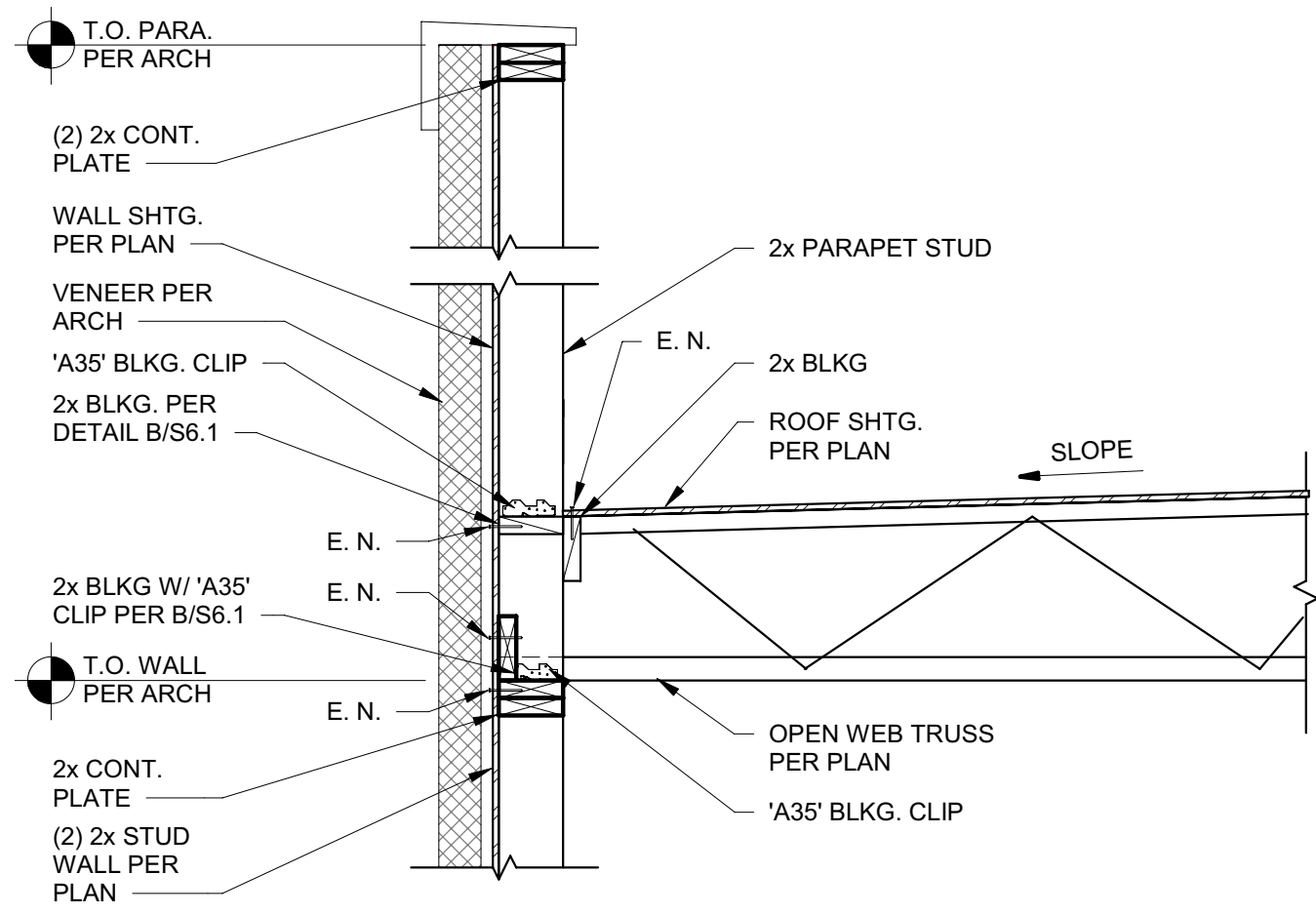
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TYPICAL FRAMING DETAILS

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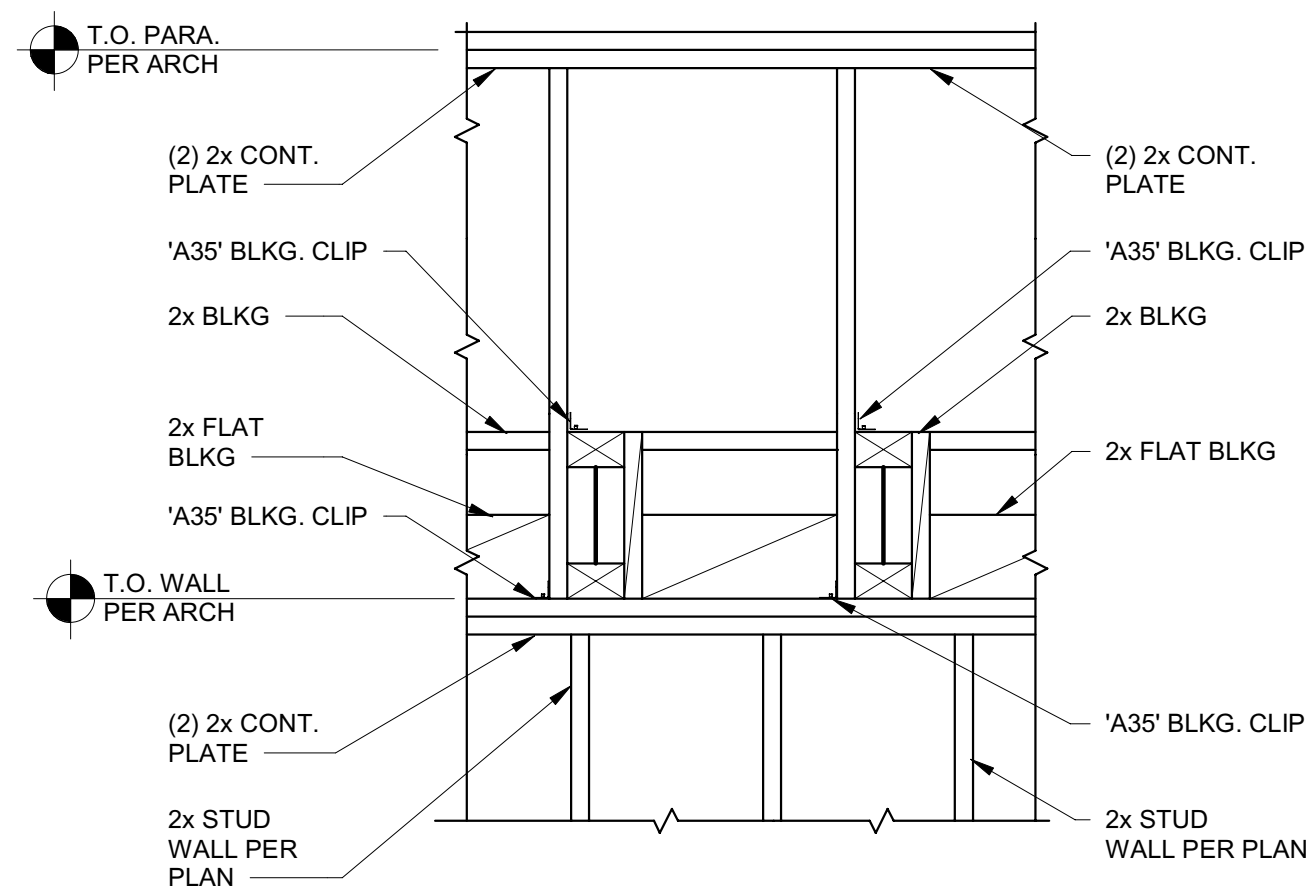
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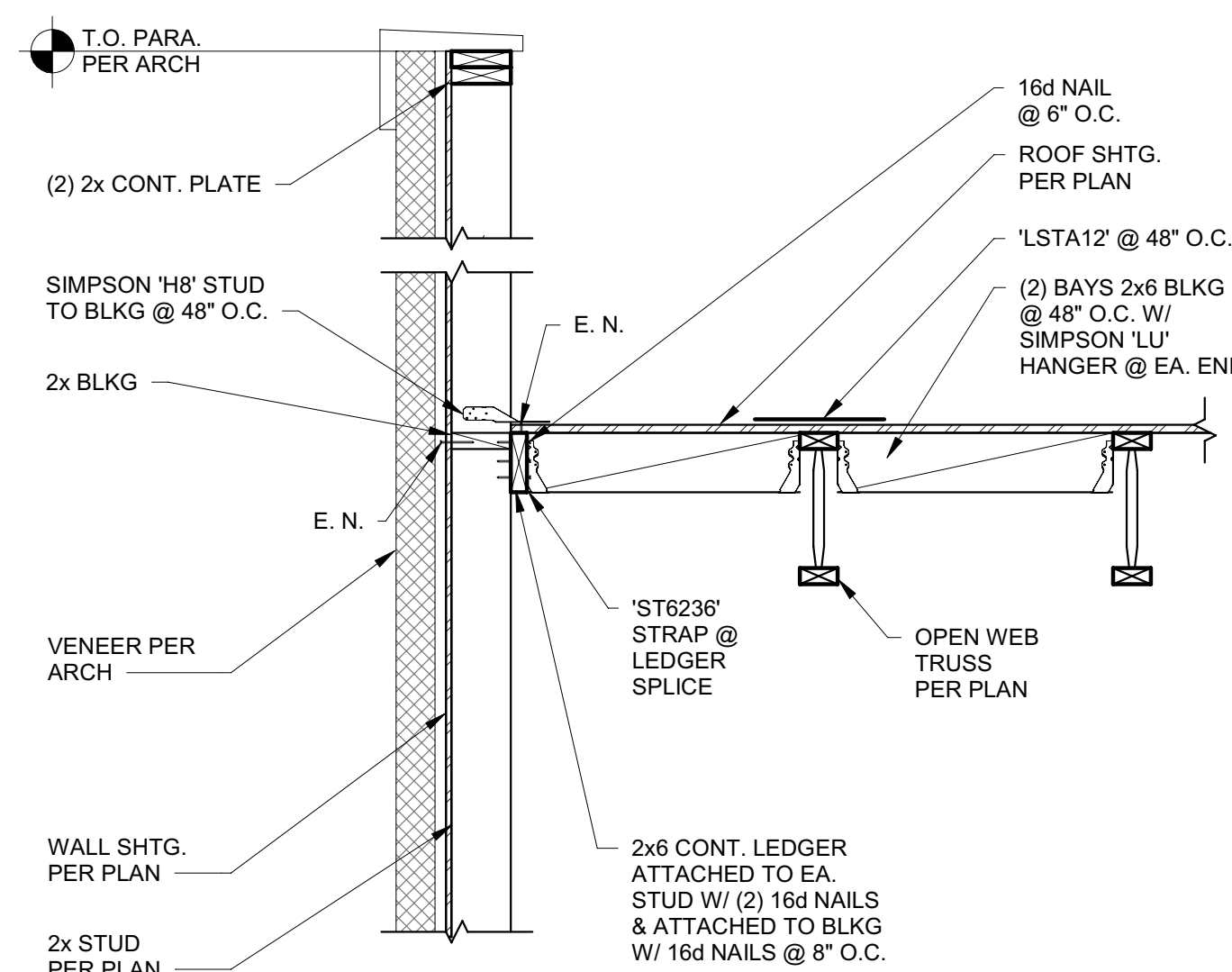
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208.336.3443



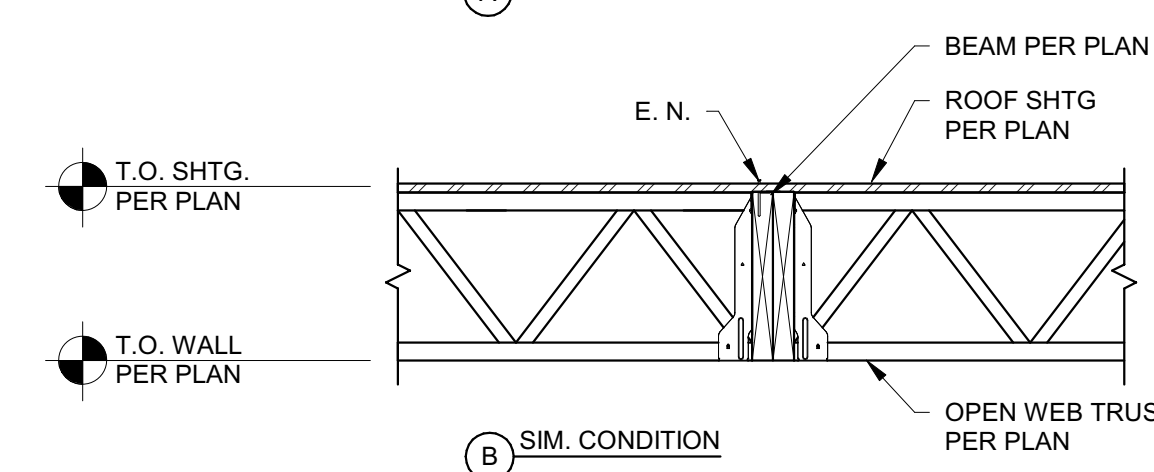
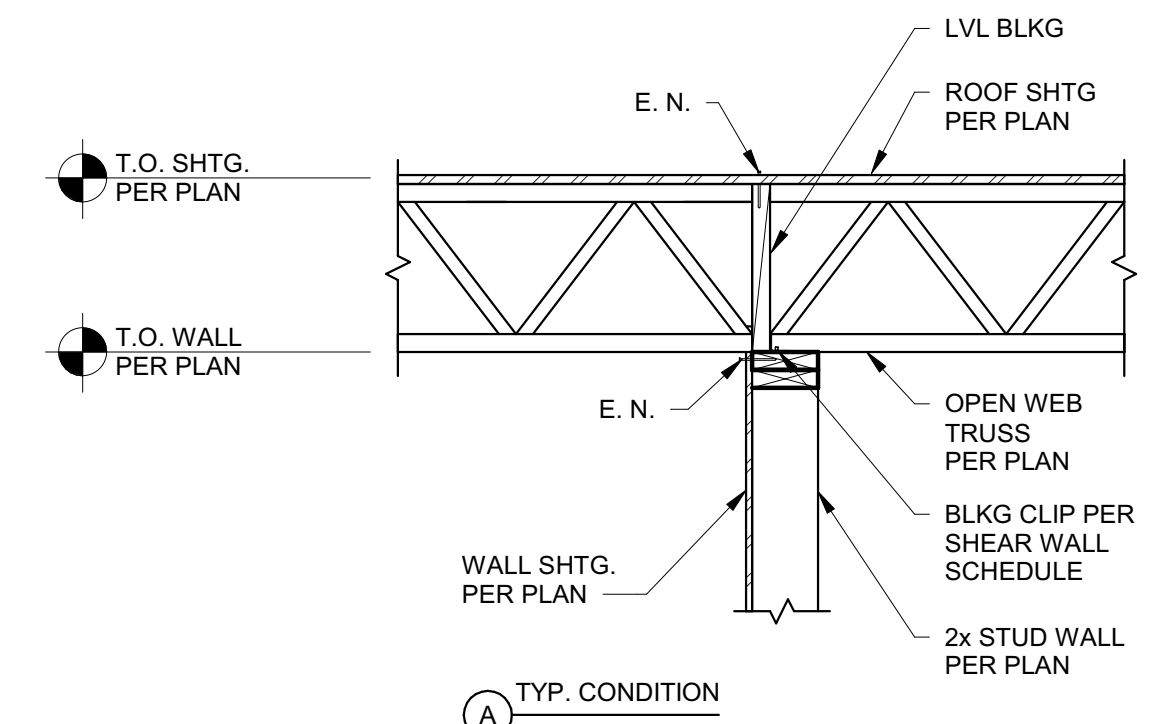
A SECTION @ ROOF TRUSS
S6.1 SCALE: 3/4" = 1'-0"



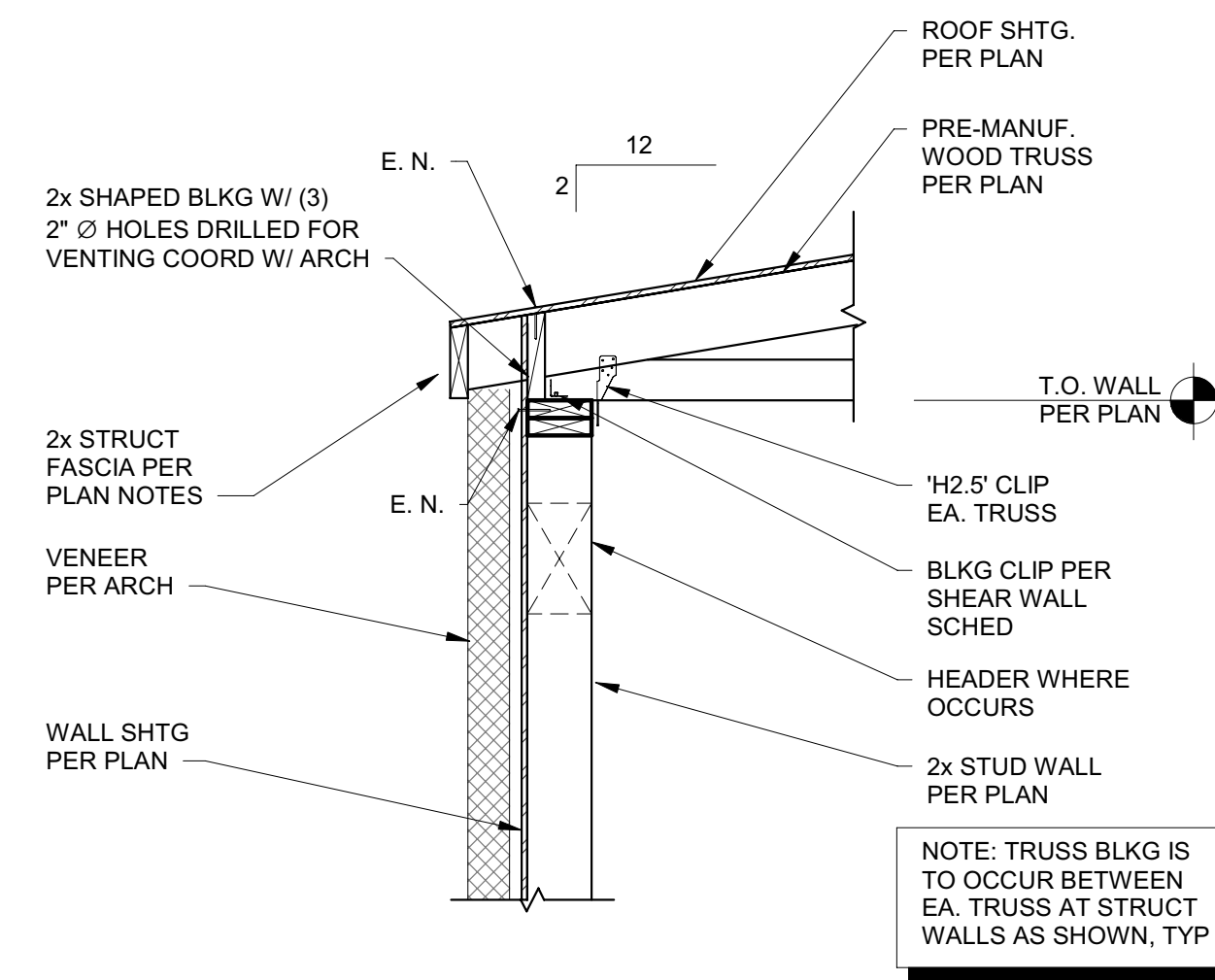
B ELEVATION @ ROOF TRUSS PARAPET
S6.1 SCALE: 3/4" = 1'-0"



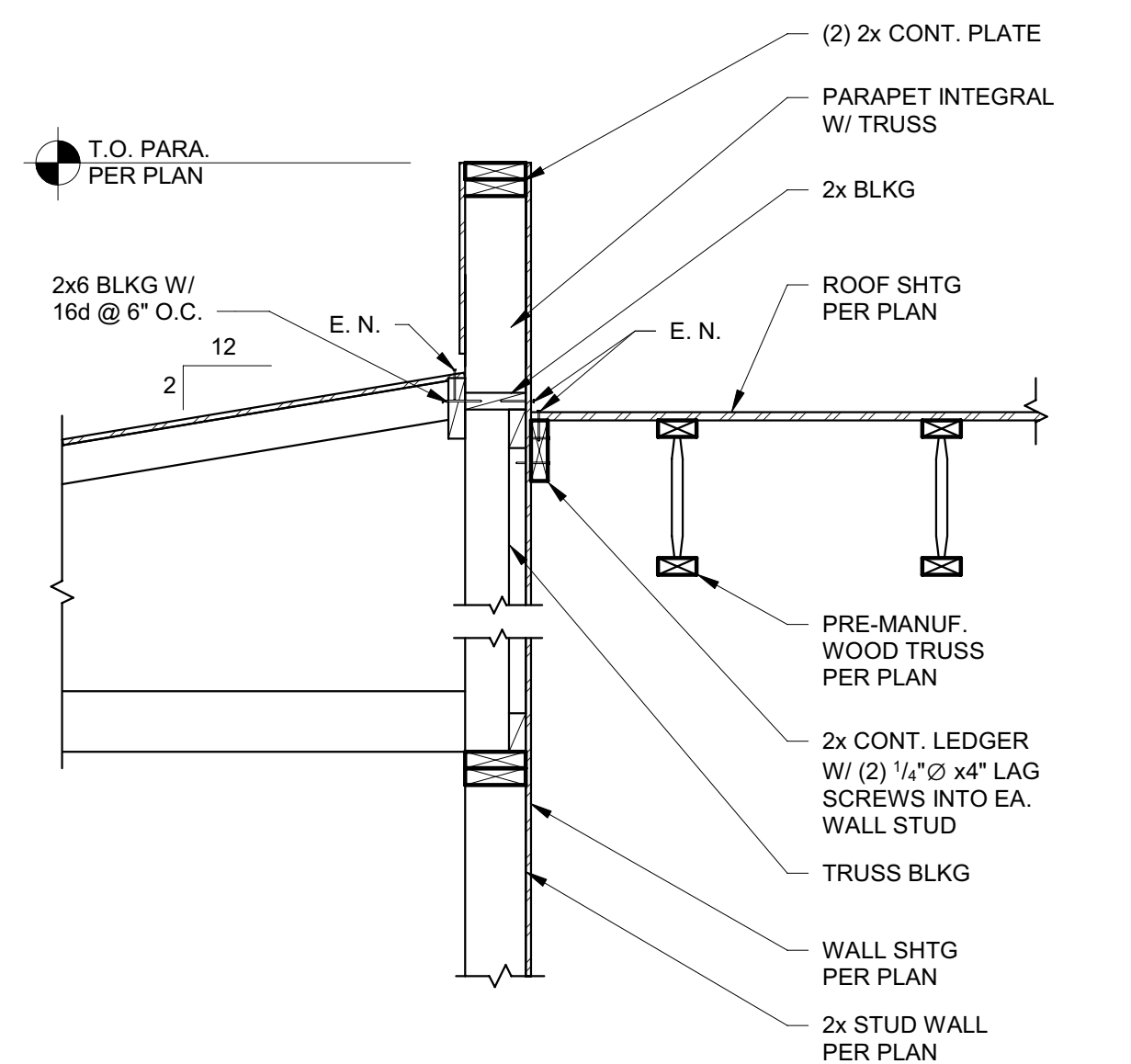
C SECTION @ PARAPET WALL
S6.1 SCALE: 3/4" = 1'-0"



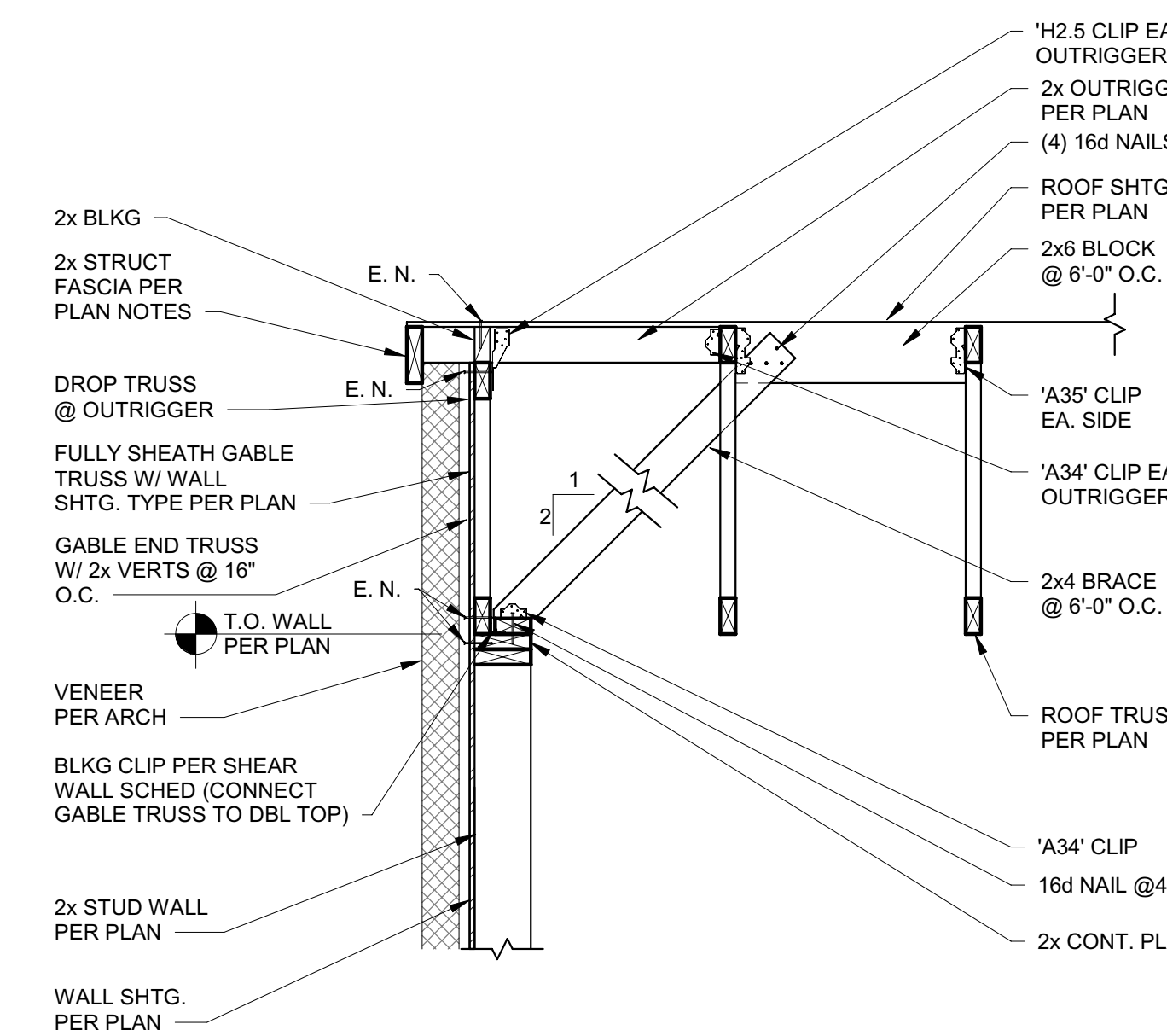
D SECTION @ ROOF JOIST
S6.1 SCALE: 3/4" = 1'-0"



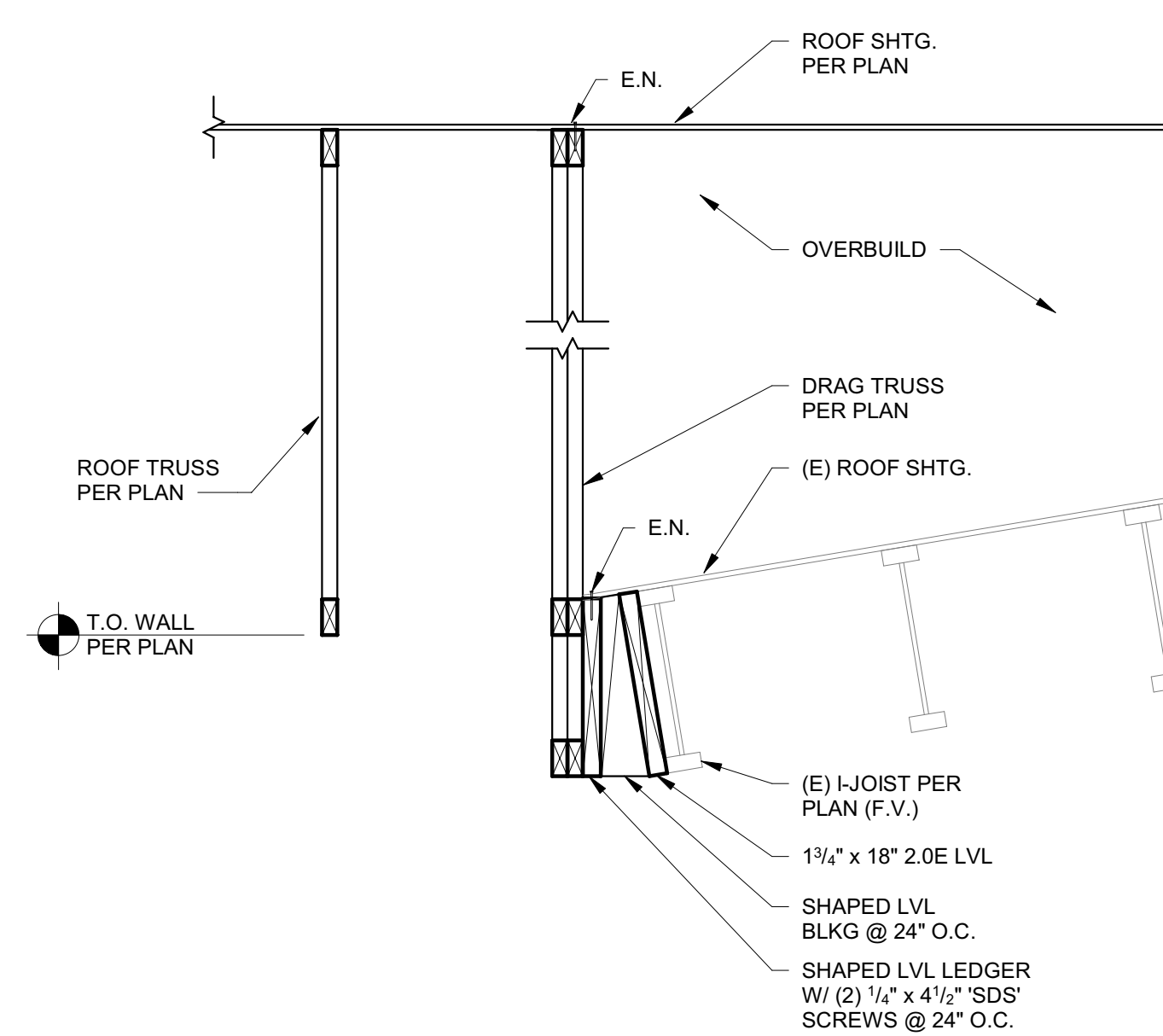
E TRUSS @ EXTERIOR WALL
S6.1 SCALE: 3/4" = 1'-0"



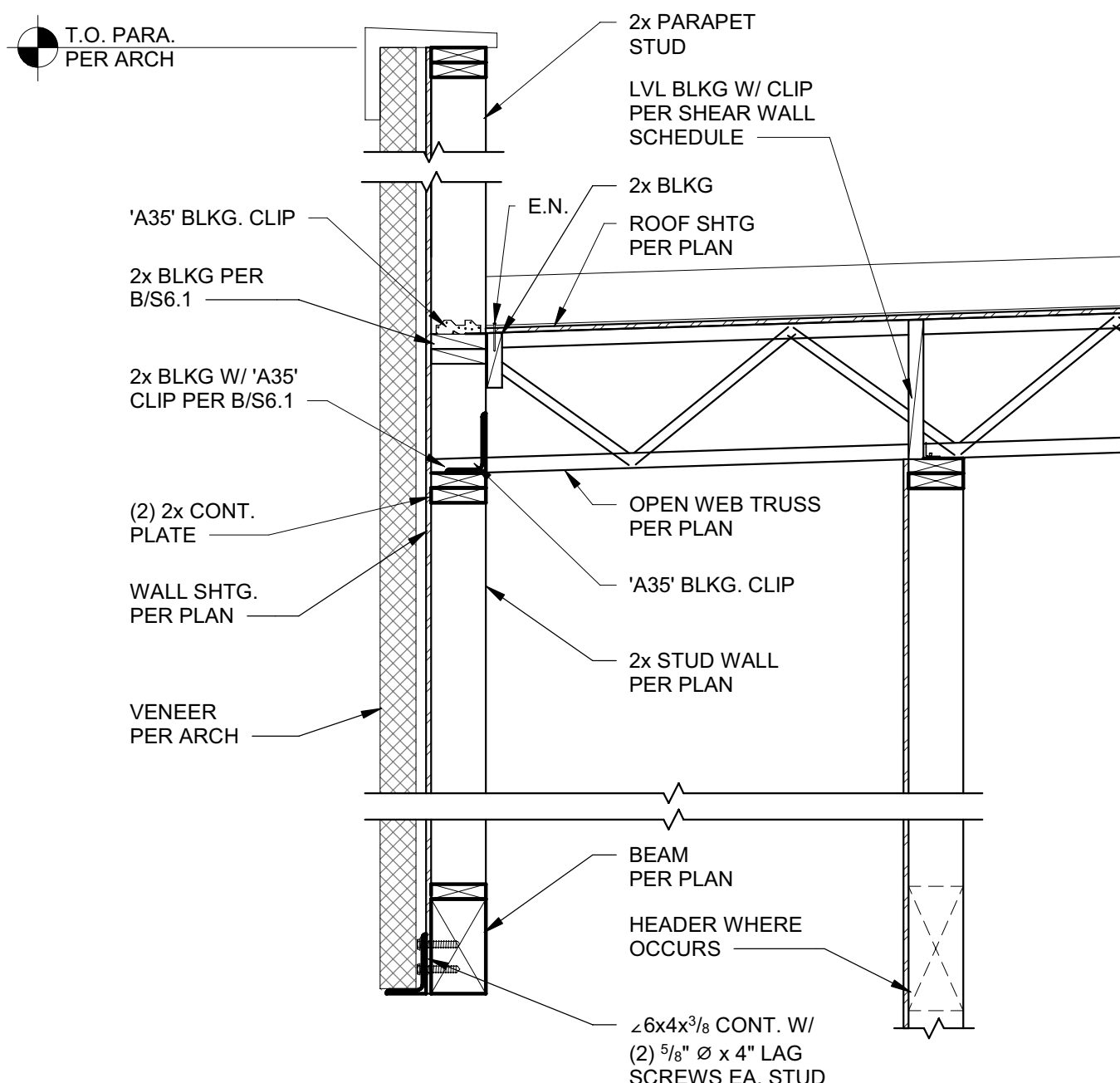
F ROOF TRUSS @ WALL LEDGER
S6.1 SCALE: 3/4" = 1'-0"



G SECTION @ OUTRIGGER
S6.1 SCALE: 3/4" = 1'-0"



H ROOF TRUSS @ EXISTING FRAMING
S6.1 SCALE: 3/4" = 1'-0"



J ROOF TRUSS @ ALCOVE
S6.1 SCALE: 3/4" = 1'-0"

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208.336.3443

PROFESSIONAL ENGINEER
10722
SARAH C. McCLENDON
STATE OF IDAHO

Revisions	Description	Date
#		

**HORIZON ELEMENTARY ADDITION
JEROME SCHOOL DISTRICT #261**
934 10TH AVE EAST, JEROME, IDAHO

DATE: 12/17/2021
MCE PROJECT #: 1098.21

DRAWN BY: RS
CHECKED BY: JM

PERMIT SET

DRAWING NO.:
S6.1
FRAMING DETAILS

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SARAH C. McCLENDON
STATE OF IDAHO

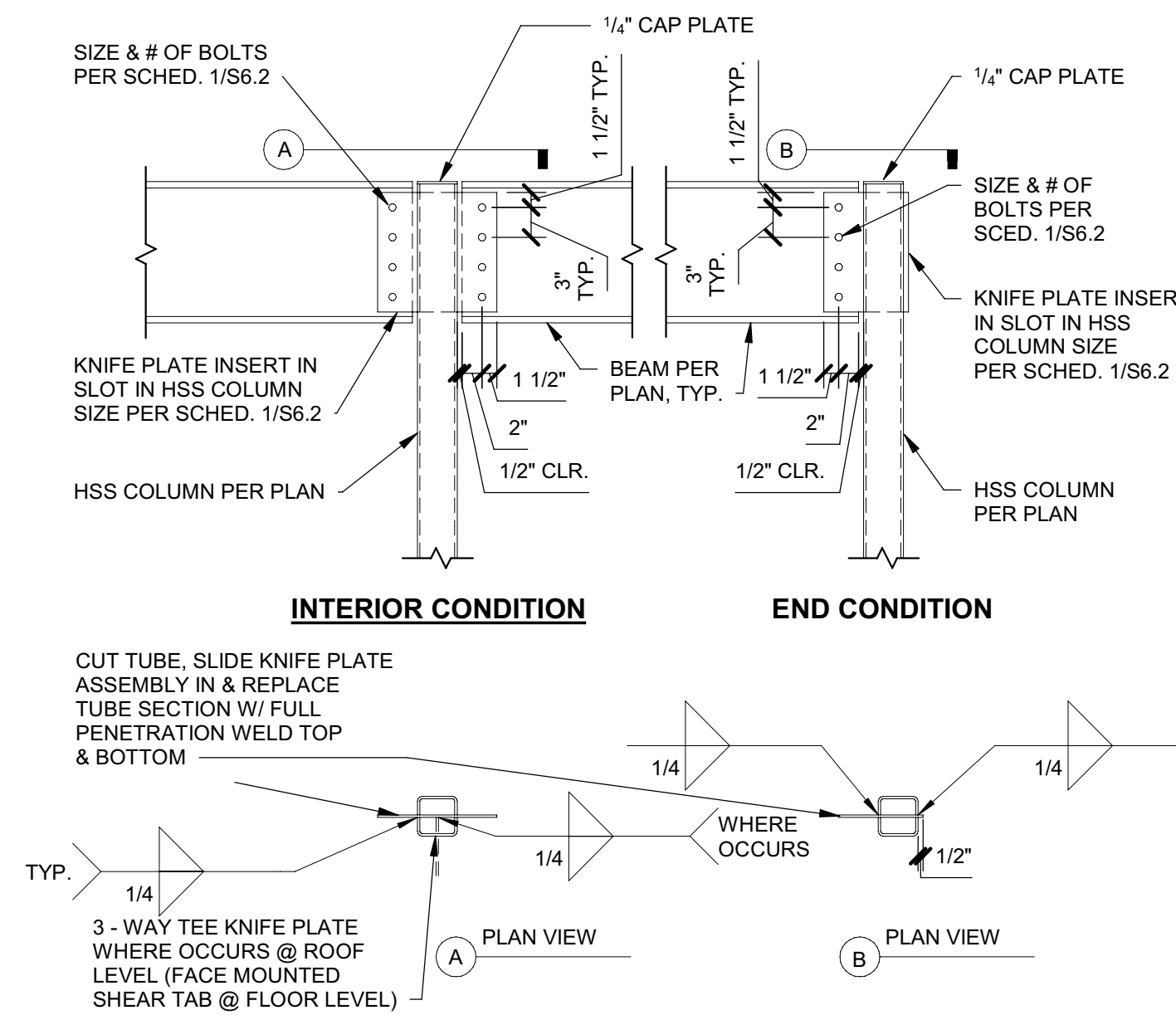
PROFESSIONAL ENGINEER

10722
SARAH C. McCLENDON
STATE OF IDAHO

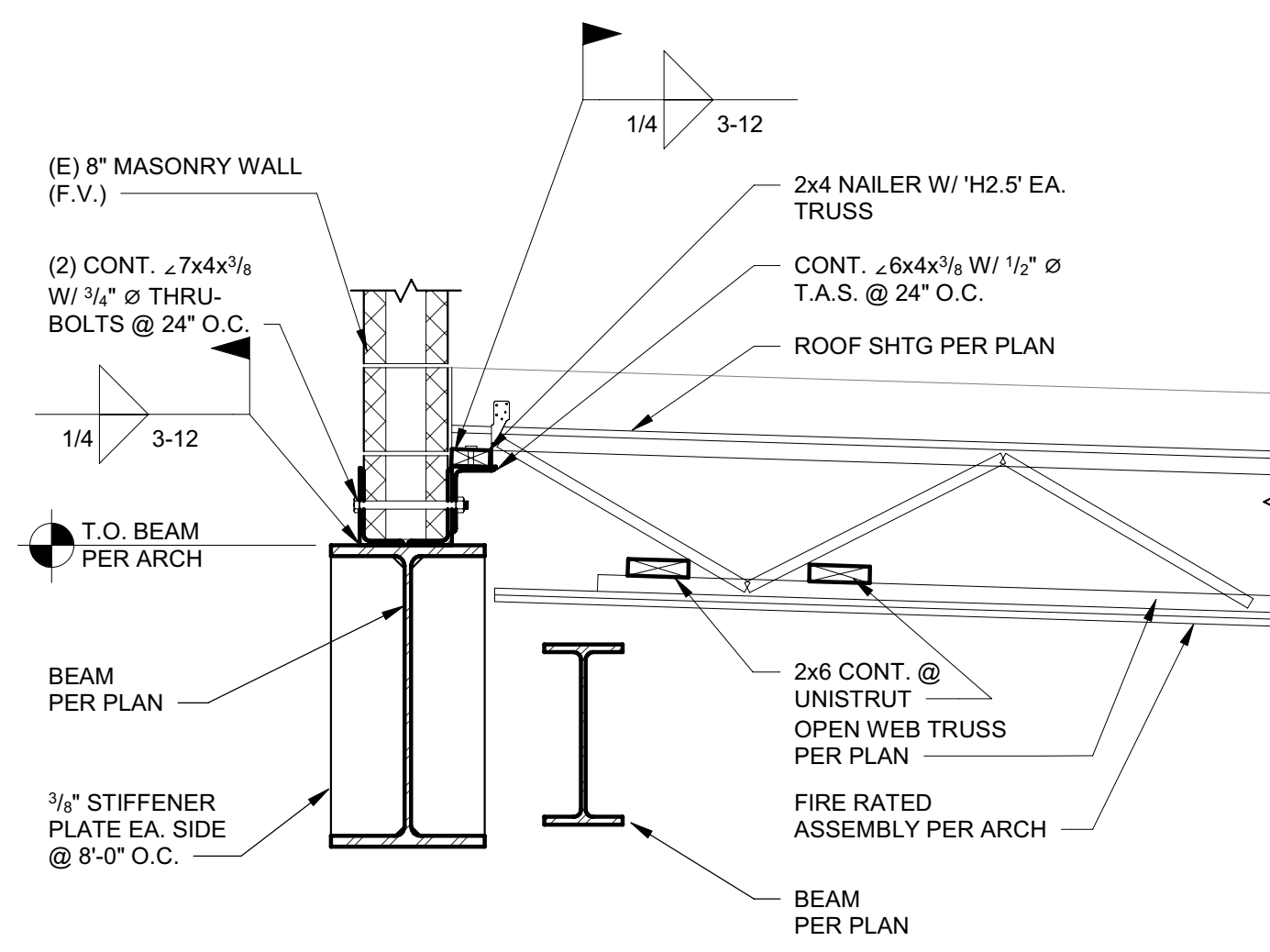
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208.331.4568

BEAM TO BEAM CONNECTION SCHEDULE				
BEAM DEPTH	STIFF/CONN PL THICKNESS	# AND Ø OF A325N BOLTS	WELD SIZE	ALLOWABLE LOAD (KIPS)
W16	5/16"	(4) 3/4"	1/4"	42.4
W27	5/16"	(8) 3/4"	1/4"	84.7

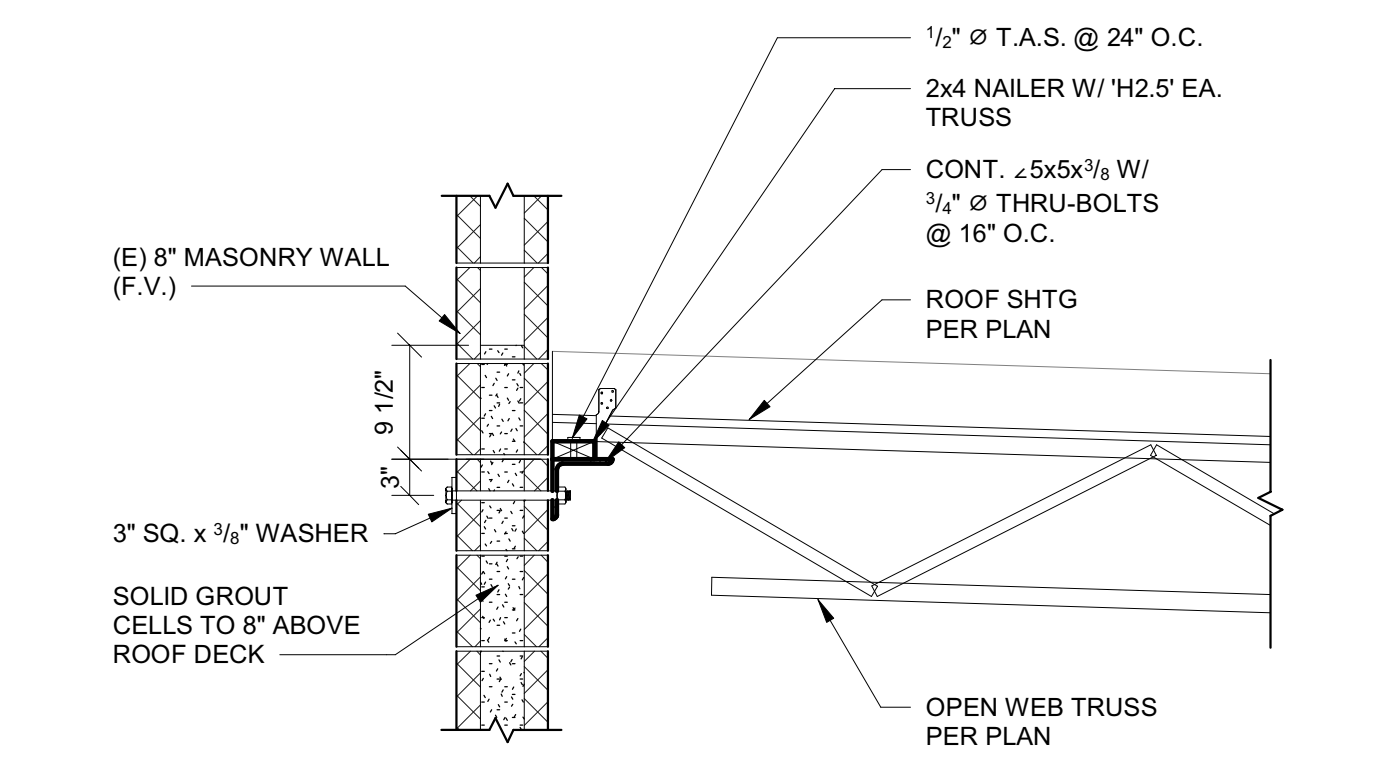
NOTES:
 1. VALUES ARE FOR PLATE MATERIAL WITH $F_y = 36$ KSI.
 2. VALUES ARE $F = 70$ KSI (E70XX ELECTRODS) WELDS
 3. VALUES ARE FOR WIDE FLANGE SHAPES ASTM A 992 ($F_y = 50$ KSI).
 4. VALUES ARE VALID FOR LATERALLY SUPPORTED BEAMS IN STEEL AND COMPOSITE CONSTRUCTION, ALL TYPES OF LOADING.



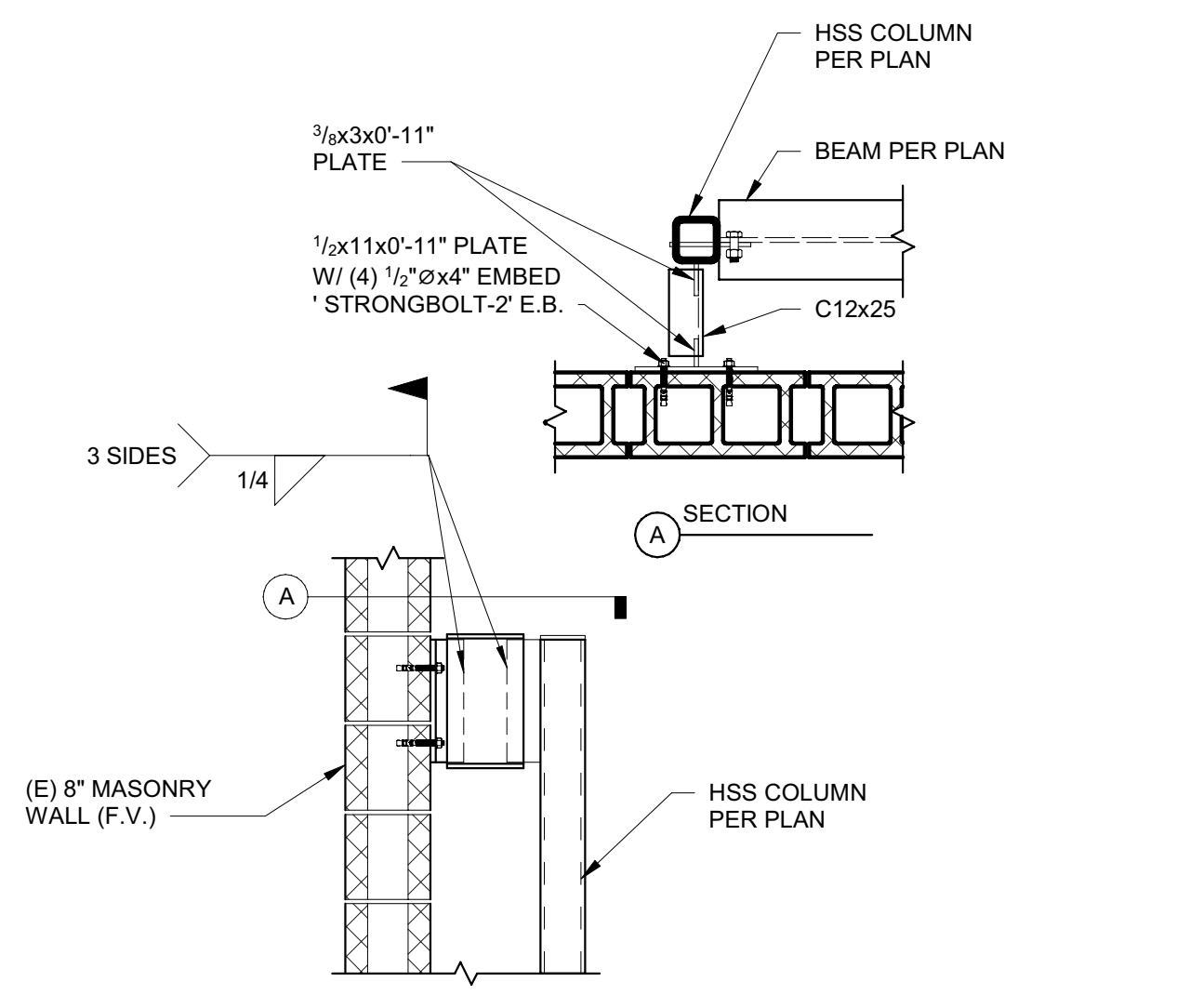
2 BEAM TO COLUMN CONNECTION SCALE: N.T.S.



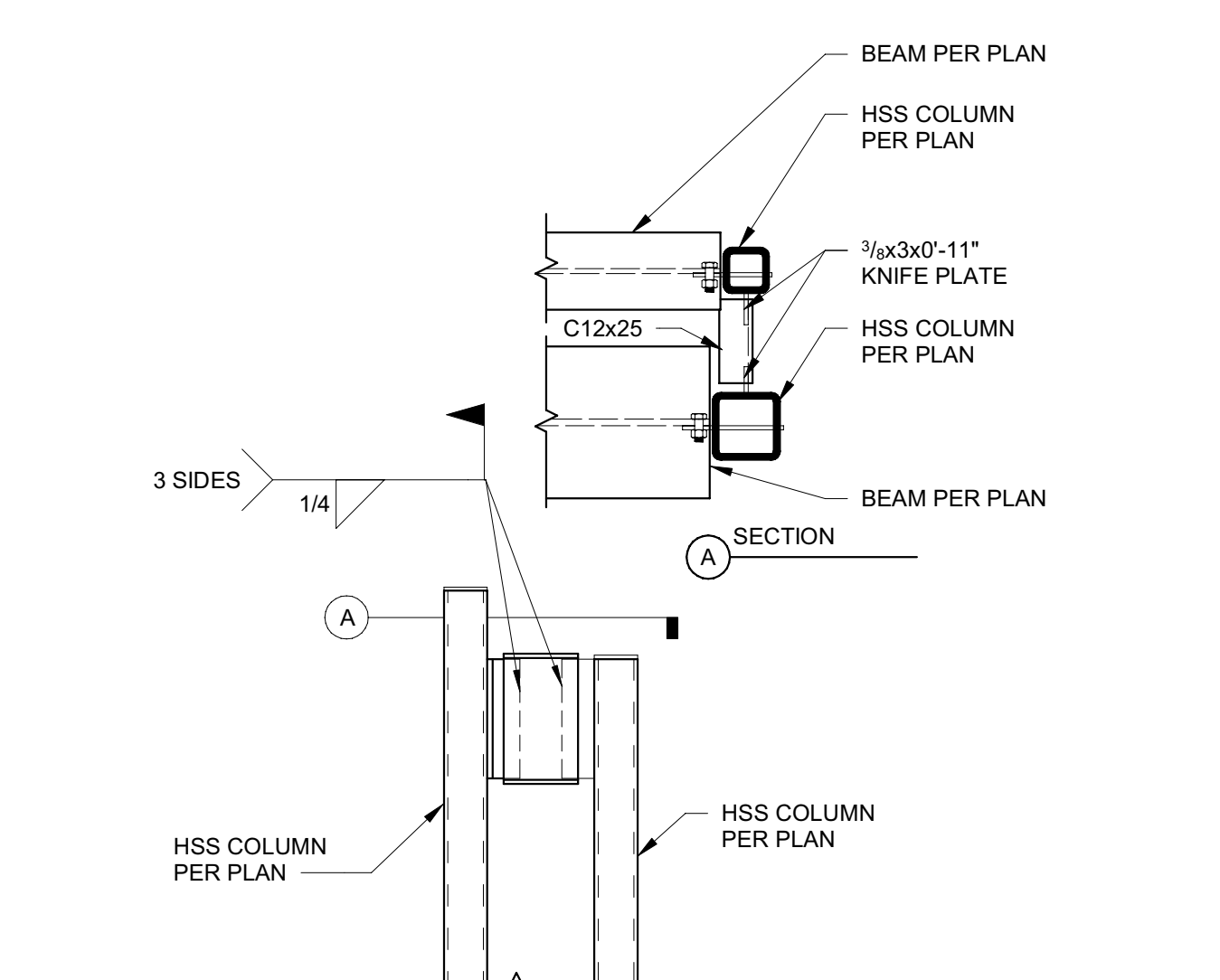
A ROOF TRUSS @ EXISTING FRAMING SCALE: 3/4" = 1'-0"



B ROOF TRUSS @ EXISTING MASONRY SCALE: 3/4" = 1'-0"



C HSS COLUMN @ EXISTING MASONRY SCALE: 3/4" = 1'-0"



D HSS COLUMN TO COLUMN CONNECTION SCALE: 3/4" = 1'-0"

#	Revisions Description	Date

HORIZON ELEMENTARY ADDITION
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DATE: 12/17/2021
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 CHECKED BY: Checker

PERMIT SET

DRAWING NO.:

S6.2
 FRAMING DETAILS

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 208.331.4568

ENERGY CODE COMPLIANCE NOTES:

- MECHANICAL SYSTEMS HAVE BEEN DESIGNED UNDER THE 2018 IECC.
- LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH ASHRAE FUNDAMENTALS HANDBOOK (IECC C403.1.1).
- DOMESTIC HOT WATER AND HOT WATER RETURN PIPING WITH OPERATING TEMPERATURE BETWEEN 105°F AND 140°F SHALL BE INSULATED PER TABLE C403.1.1.3:

PIPE SIZE	INSULATION THICKNESS	INSULATION VALUE
1/2" THRU 1 1/4"	1"	R = 4.0
1-1/2" THRU 2"	1-1/2"	R = 6.0
- REFERENCE DUCT INSULATION SCHEDULE FOR R-VALUES OF DUCTWORK REQUIRED (IECC C403.1.1.1).
- DUCT SEALING SHALL BE PERFORMED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. DUCTS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH ALL UL181 STANDARDS WITH ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SEALED (IECC C403.1.1.2.1).
- ALL THERMOSTATS CONTROLLING HVAC SYSTEMS SHALL BE 7-DAY, SOLID STATE, PROGRAMMABLE THERMOSTATS WITH NIGHT SETBACK CAPABILITIES, HAVE AN OUTPUT TO ENABLE THE ECONOMIZER, HAVE AN INPUT FOR THE FDD ALARM FROM THE ECONOMIZER CONTROLLER, AND A DEADBAND OF 5°F OR LESS UNLESS DDC CONTROLS ARE SPECIFIED. IF DDC CONTROLS ARE SPECIFIED, FOLLOW NOTES SHOWN IN PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT RECORD DRAWINGS, OPERATION AND MAINTENANCE MANUALS AND HVAC SYSTEM BALANCE REPORTS TO OWNER AFTER SUBSTANTIAL COMPLETION OF PROJECT (IECC C408.2.5).
- REFERENCE 2018 IECC TABLE C404.5.1 FOR MAXIMUM ALLOWABLE PIPING LENGTH FROM MAIN HOT WATER PIPING TO FIXTURE.

DUCT INSULATION SCHEDULE

AREA	INSULATION	
INDIRECTLY CONDITIONED SPACE * EXPOSED LOCATIONS	NONE NONE	
* INDIRECTLY CONDITIONED SPACES INCLUDE AREAS ABOVE GRID CEILINGS WITH HARD DUCTED RETURNS AND INSULATION ON ROOF ABOVE.		
TYPICAL DUCT WRAP R VALUES		
THICKNESS	DENSITY	INSTALLED R VALUE (AT 25% COMPRESSION)
1-1/2"	.75 PCF	4.2
2"	.75 PCF	5.6
2-1/5"	.75 PCF	6.0
3"	.75 PCF	8.3

DDC CONTROLS:

DDC CONTROLS (CLIMA-TECH)
 NEW CONTROL SYSTEM TO MATCH EXISTING CONTROL SYSTEM INSTALLED IN SCHOOL BUILDING.

SEQUENCE OF OPERATIONS

RTU - ROOFTOP UNIT

SUPPLY FAN START/STOP: THE SUPPLY FAN WILL BE STARTED ACCORDING TO THE SCHEDULE. IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED. AFTER THE SUPPLY FAN HAS BEEN STARTED, THE CONTROL SEQUENCE WILL BE ENABLED.

ZONE CONTROL: THE MIXED AIR DAMPERS AND THE DX COOLING STAGES WILL MODULATE/CYCLE IN SEQUENCE TO MAINTAIN THE ZONE TEMPERATURE AT SETPOINT.

CO2 SENSOR: REFERENCE ROOFTOP UNIT SCHEDULE ON THIS SHEET.

ECONOMIZER DRY BULB SWITCHOVER: WHEN THE OUTSIDE AIR TEMPERATURE IS 1°F BELOW THE RETURN AIR TEMPERATURE, THE ECONOMIZER WILL BE ENABLED. WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE RETURN AIR TEMPERATURE, THE ECONOMIZER WILL BE DISABLED. WHEN ENABLED, THE POWER EXHAUST FAN SHALL MODULATE TO PROPORTIONAL TO MAINTAIN .02" POSITIVE PRESSURE BETWEEN INSIDE AND OUTSIDE OF BUILDING.

NIGHT SETBACK/NIGHT SETUP: WHEN IN "UNOCCUPIED" MODE, THE UNIT WILL CYCLE AS NECESSARY TO MAINTAIN THE NIGHT SETBACK ZONE TEMPERATURE AT SETPOINT. A DIFFERENTIAL PREVENTS THE UNIT FROM CYCLING EXCESSIVELY.

SHUTDOWN: WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT WILL BE SET AS FOLLOWS:
 SUPPLY FAN WILL BE OFF
 OUTSIDE AIR DAMPER WILL CLOSE
 RETURN AIR DAMPER WILL OPEN
 DX COOLING WILL BE OFF

DDC CONTROLS LEGEND

- DIGITAL OUTPUT FROM DDC CONTROLLER
- DIGITAL INPUT TO DDC CONTROLLER
- ANALOG OUTPUT FROM DDC CONTROLLER
- ANALOG INPUT TO DDC CONTROLLER
- TEMPERATURE SENSOR
- PRESSURE DIFFERENTIAL SENSOR
- SPACE SENSOR
- PRESSURE SENSOR
- MOTORIZED DAMPER

NO.	TYPE	NOM. TONS	CFM	HP	MCA	CHAR	RPM	SEER/EER	REFRIG.	SPE	HEATING				COOLING				FRESH AIR CFM	WEIGHT	ROOF TOP UNIT MANUFACTURER	ECONOMIZER		
											MBH INPUT	MBH OUTPUT	ENT AIR	LVG AIR	MBH	S/T	STAGES	ENT AIR					LVG AIR	OUTSIDE AIR
1	PACKAGED	5	2000	.71	33	208/3ø	1888	16.0 SEER	R-410A	.50"	110	88	60'	101'	59.9	.86	2	80 62	56 51	95'	605	925#	'CARRIER' 48GC 06	'MICROMETL' POWER EXHAUST
2	PACKAGED	7.5	3000	3.7	45	208/3ø	838	12.0 EER	R-410A	.75"	180	148	60'	106'	86.1	.99	2	80 62	54 52	95'	750	1248#	'CARRIER' 48HC 08	'MICROMETL' POWER EXHAUST

- PROVIDE WITH REMOTE TEMPERATURE SENSOR IN RETURN AIR DUCT OF CORRESPONDING ROOFTOP UNIT.
- PROVIDE WITH CO2 SENSOR FOR OUTSIDE AIR CONTROL. MINIMUM OUTSIDE AIR CFM SHALL BE 30% OF FRESH AIR CFM LISTED IN SCHEDULE. MAXIMUM FRESH AIR CFM IS LISTED IN SCHEDULE. CO2 SENSOR SHALL BE ALLOWED TO OVERRIDE THE MINIMUM DAMPER SET POINT AS DETERMINED BY COOLING DEMAND. CO2 SENSOR SHALL MAINTAIN A MINIMUM OF 1000 PPM CO2 LEVEL WITHIN SPACE DURING OCCUPIED HOURS.
- POWER EXHAUST ECONOMIZERS TO BE PROVIDED WITH 'BELIMO' DAMPERS FACTORY INSTALLED.
- PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT FOR AUTOMATIC FAN SHUT DOWN.

LOAD CALCULATION SUMMARY FORM

ZONE	EQUIPMENT	SF	COOLING LOAD W/ FRESH AIR (MBH)	HEATING LOAD W/ FRESH AIR (MBH)
1	RTU-1	2,143	42.1	84.8
2	RTU-2	1,463	84.5	137.7

LOAD CALCULATIONS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN 2007 ASHRAE/ACCA STANDARD 183

CLIMATIC DESIGN INFORMATION

CITY	JEROME, ID
ELEVATION (FT)	4049
LATITUDE	42.73N
LONGITUDE	114.46W
HEATING DB (99%)	11.6'
COOLING DB / MCWB (1%)	90.3' / 62.8'
DESIGN RAINFALL (IN/HR)	1"

2018 IECC TABLE C404.5.1 PIPING VOLUME AND MAXIMUM PIPING LENGTH

NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1-1/4	8	0.5	8
1-1/2	11	0.5	6
2 OR LARGER	18	0.5	4

PLUMBING FIXTURE SCHEDULE

SYM	DESCRIPTION	COLD	HOT	WASTE	VENT
P-1	CLASSROOM SINK (ADA COMPLIANT)	1/2"	1/2"	2"	1-1/2"
P-2	WATER HEATER (INSTANT., 4.2KW, 208/1ø)	1/2"	1/2"	---	---
P-3	ROOF AND OVERFLOW DRAIN	---	---	---	---

NOTE:
 PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FIXTURES. PLUMBING CONTRACTOR TO SELECT AND COORDINATE ALL FIXTURE STYLES WITH ARCHITECT AND OWNER PRIOR TO SUBMITTAL SUBMISSION.

- P-1** Classroom Sink with Bubblers (ADA Compliant): Elkay DRKAD-222055-C, 18-gauge Type 304 stainless steel self-rimming sink with LK-35 basket strainer. Provide trap, tailpiece and angle stops. Provide LK-D-2439C faucet and LK-1141A no lead bubbler. Provide bubbler on left front side of sink. Mount faucet on right side in center.
- P-2** Water Heater (Instantaneous, 4.2 Kw, 208 Volt, 1 Phase): Chronomite SR-20L/208, low pressure, instantaneous hot water heater with 4 GPM flow rate, 103° to 128° F adjustable temperature supply, fail safe heating element which will not heat above 140°F with 4,160 watt, 208 volt/1 phase heating element.
- P-3** Roof & Overflow Drain: Jay R. Smith 1015 CID roof drain with cast iron dome, flashing clamp, gravel stop, adjustable extension sleeve, underdeck clamp and sump receiver. Jay R. Smith 1080 CID roof drain with cast iron dome, flashing clamp, gravel stop, adjustable extension sleeve, underdeck clamp, sump receiver and 2" water dam. Reference plans for sizing.

GRILLE AND REGISTER SCHEDULE

SYMBOL	DESCRIPTION	TYPE	FINISH
CD	CEILING DIFFUSER	'TITUS' TDC	OFF WHITE
RG	RETURN GRILLE	'TITUS' 50F	OFF WHITE
TG	TRANSFER GRILLE	'TITUS' 50F	OFF WHITE
PMC	PERFORATED MODULE CORE	'TITUS' PMC	OFF WHITE

DRAWING INDEX

SHEET	DRAWING TITLE
M1.0	MECHANICAL COVER SHEET
M2.0	HVAC DEMOLITION PLAN
M2.1	HVAC PLAN
M3.0	WASTE AND VENT PLAN
M4.0	PLUMBING PLAN

COMcheck Software Version 4.1.5.1 Mechanical Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: Horizon Elementary School - Addition
 Location: Jerome, Idaho
 Climate Zone: 5b
 Project Type: New Construction

Construction Site: 934 10th Ave E, Jerome, ID 83338
Owner/Agent:
Designer/Contractor: Robert Tikker, Tikker Engineering, 9550 West Overland Rd Suite 170, Boise, ID 83709, 208-658-0218, bobt@tikkerengineering.com

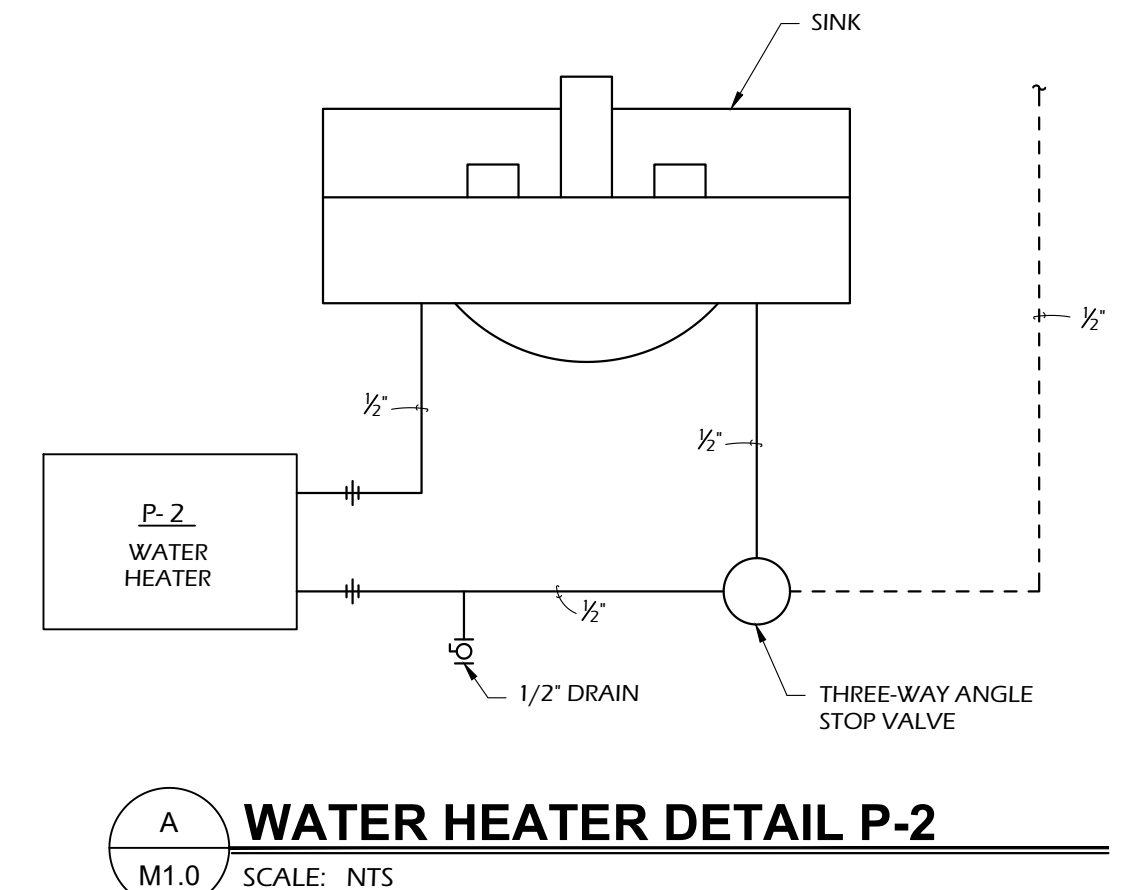
Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

- Mechanical Systems List**
- Quantity System Type & Description**
- 1 RTU-1 (Single Zone): Heating: 1 each - Duct Furnace, Gas, Capacity = 110 kBtu/h, Proposed Efficiency = 80.00% Ee, Required Efficiency: 80.00 % Ee; Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer, Fan System: None, Proposed Efficiency = 16.00 SEER, Required Efficiency: 14.00 SEER
 - 1 RTU-2 (Single Zone): Heating: 1 each - Duct Furnace, Gas, Capacity = 180 kBtu/h, Proposed Efficiency = 80.00% Ee, Required Efficiency: 80.00 % Ee; Cooling: 1 each - Single Package DX Unit, Capacity = 86 kBtu/h, Air-Cooled Condenser, Air Economizer, Fan System: None, Proposed Efficiency = 12.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER
 - 1 Water Heater P-2: Electric Instantaneous Water Heater, Capacity: 0 gallons, No minimum efficiency requirement applies

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Signature: Robert D. Tikker, Date: 12-17-21

SYMBOL	DESCRIPTION
— CW —	COLD WATER PIPING
— HW —	HOT WATER PIPING
— W —	WASTE PIPING
— V —	VENT PIPING
— C —	CONDENSATE PIPING
— G —	LOW PRESSURE GAS PIPING
— MPG —	MEDIUM PRESSURE GAS PIPING
— RDL —	ROOF DRAIN LINE
— OFL —	OVERFLOW DRAIN LINE
P.#	PLUMBING FIXTURE IDENTIFICATION
— —	PIPE BREAK
— —	PIPE RISE
— —	PIPE DROP
— —	PIPE END CAP
•	VENT THROUGH ROOF
	UNION
⊙	POINT OF CONNECTION EXISTING TO NEW
⊙	BALL VALVE
⊙	CHECK VALVE
⊙	PRESSURE REDUCING VALVE
⊙	THERMOSTAT
⊙	FIRE DAMPER - ONE HOUR
⊙	FIRE/ SMOKE DAMPER - ONE HOUR
⊙	SMOKE DAMPER
⊙	CONICAL SPIN IN FITTING WITH HAND DAMPER
⊙	TRANSITION FROM RECTANGULAR TO ROUND DUCT
⊙	CEILING DIFFUSER
⊙	RETURN GRILLE
⊙	EXHAUST GRILLE
⊙	SUPPLY DUCT
⊙	RETURN DUCT
⊙	EXHAUST DUCT
⊙	FLEX DUCT
⊙	EQUIPMENT CALLOUT



WATER HEATER DETAIL P-2
 SCALE: NTS

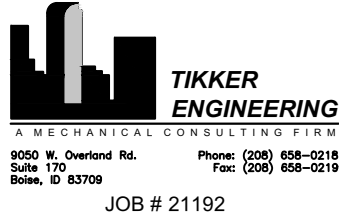
MECHANICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
BTU	BRITISH THERMAL UNITS
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CO	CLEAN OUT
COTG	CLEAN OUT TO GRADE
CW	COLD WATER
EER	ENERGY EFFICIENCY RATIO
ENT	ENTERING
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HR	HOUR
HW	HOT WATER
KW	KILOWATT
LVG	LEAVING
MAX	MAXIMUM
MBH	BTU'S IN THOUSANDS
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
NO	NUMBER
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SPE	STATIC PRESSURE EXTERNAL
S/T	SENSIBLE TO TOTAL COOLING RATIO
T-STAT	THERMOSTAT
TYP	TYPICAL
VTR	VENT THROUGH ROOF
WCO	WALL CLEAN OUT

Revisions	Date



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 208.336.3443

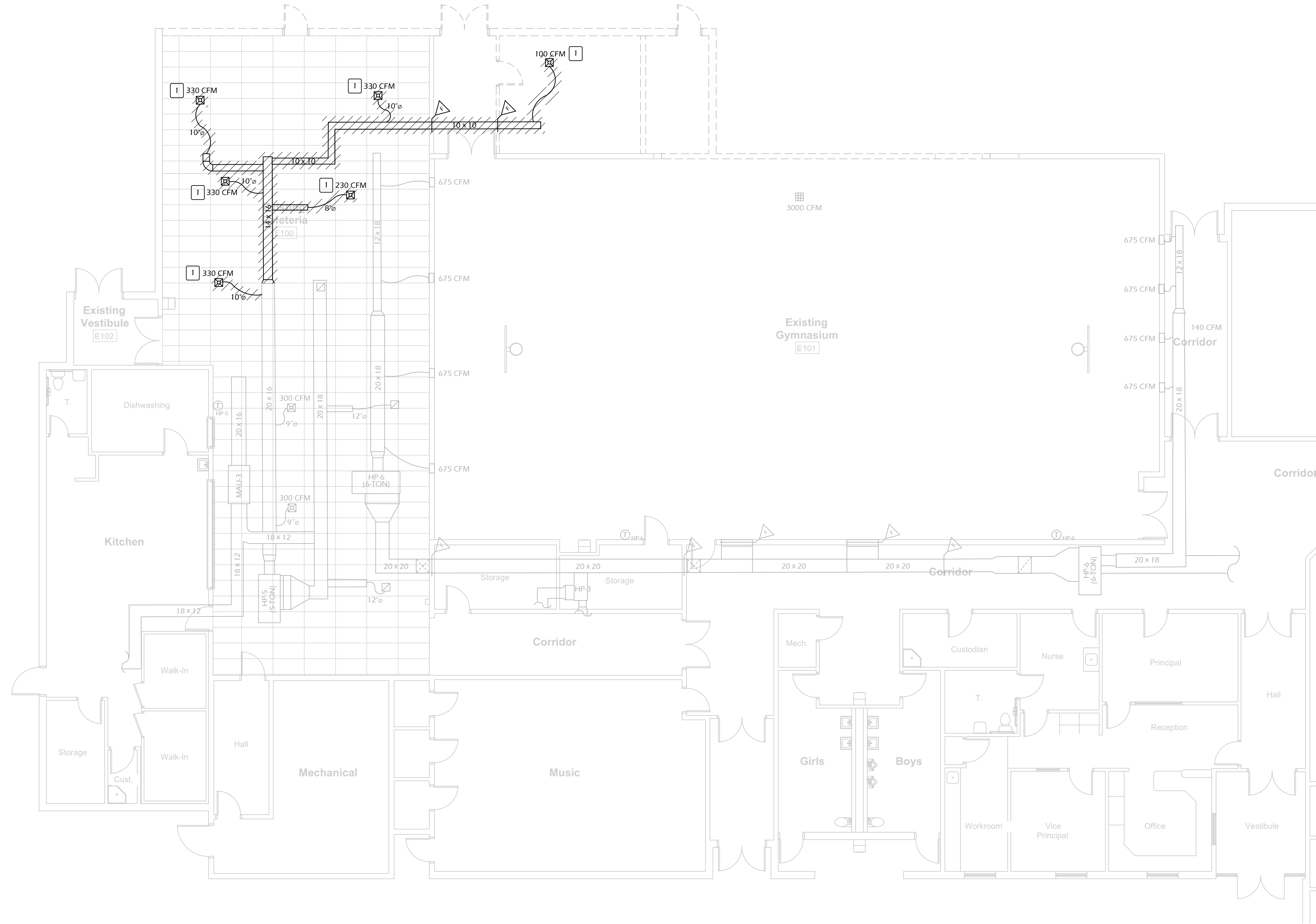


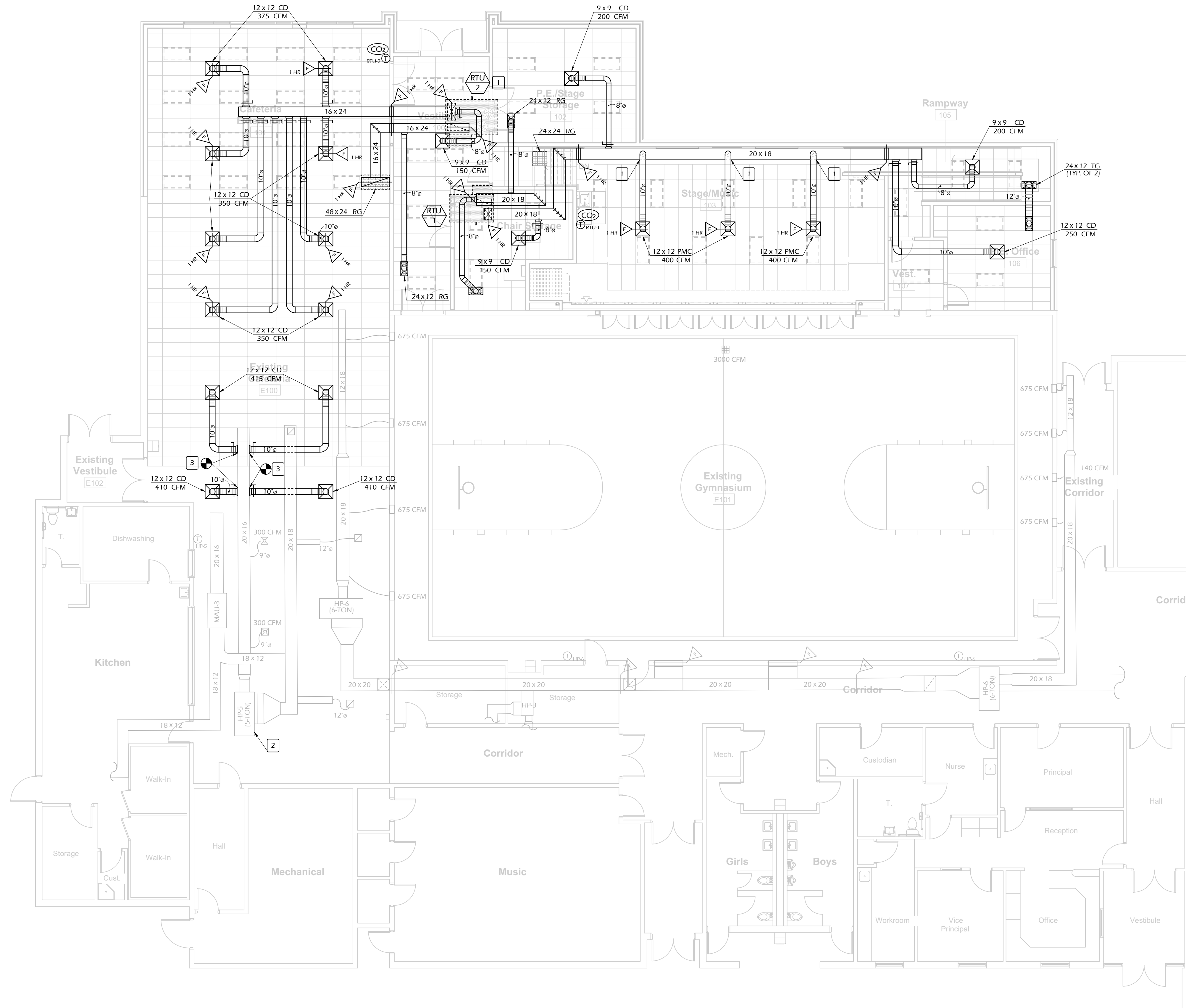
An Addition to
Horizon Elementary School
 Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
 LKV PROJECT #: 2122
 DRAWN BY: UM
 CHECKED BY: BT
 BID SET
 DRAWING NO.:
M1.0
 MECHANICAL COVER SHEET

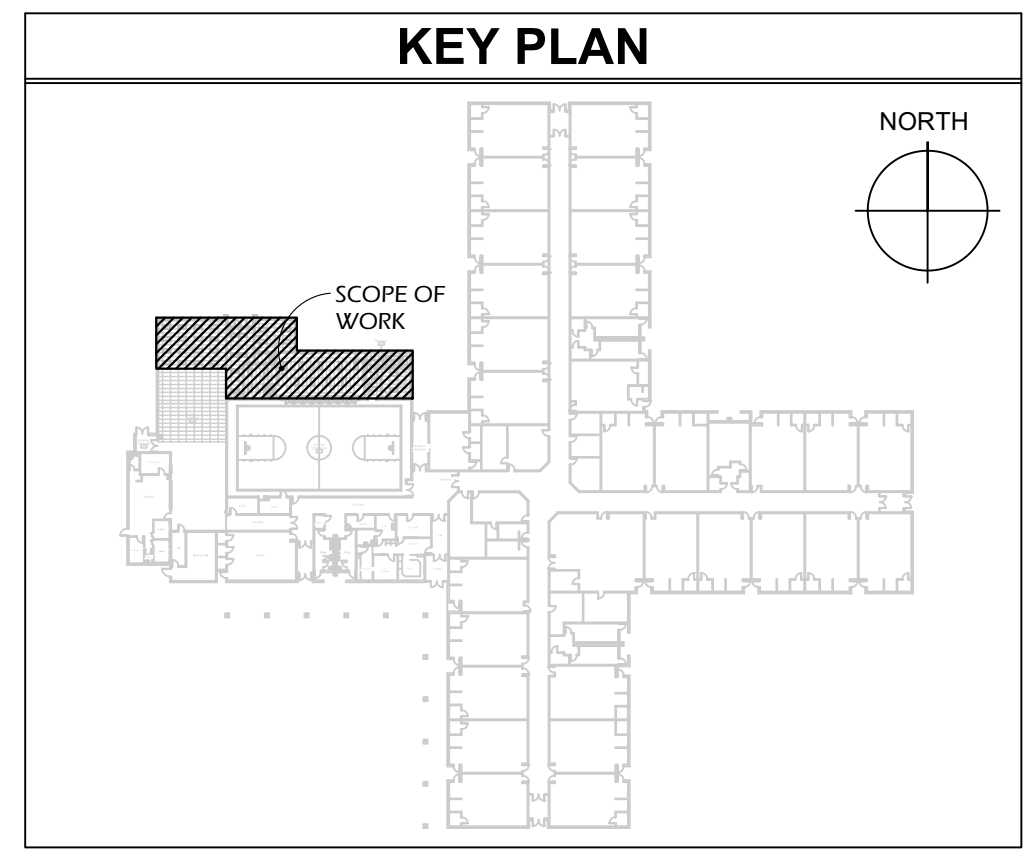
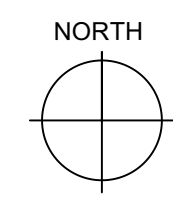


This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION





1 HVAC PLAN
1/8" = 1'-0"



- GENERAL NOTES:**
- COORDINATE EXACT LOCATION OF DIFFUSERS & GRILLES WITH REFLECTED CEILING & LIGHTING LAYOUTS.
 - FLEX DUCT RUN-OUTS LIMITED TO 5'-0" MAXIMUM.
 - COORDINATE HVAC EQUIPMENT WITH ALL OTHER TRADES AS REQUIRED.
 - ALL CEILING DIFFUSERS ARE TO BE 4-WAY UNLESS NOTED OTHERWISE.
 - LINE ALL SUPPLY & RETURN DUCT MAINS WITH 1-1/2" ACOUSTICAL LINING WITHIN 15'-0" OF ALL ROOFTOP UNITS.
 - ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DIMENSIONS.
 - PROVIDE FACTORY FABRICATED ACCESS PANELS IN DUCT FOR EACH FIRE/SMOKE DAMPER AND SMOKE DETECTOR.
 - SEAL ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES WITH U.L. APPROVED FIRE-RATED SYSTEM.
 - ROUND DUCT OR RECTANGULAR DUCT MAY BE SUBSTITUTED FOR DUCT SIZES SHOWN ON PLANS PROVIDED EQUIVALENT AIR PRESSURE DROPS ARE MAINTAINED.
 - WHERE DUCTWORK PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN DUCT AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION.
 - PROVIDE CEILING RADIATION DAMPERS AT MEMBRANE PENETRATIONS IDENTIFIED ON ARCHITECTURAL PLANS.

- KEY NOTES:**
- MECHANICAL CONTRACTOR TO COORDINATE ALL DUCTWORK IN TRUSSES WITH TRUSS MANUFACTURER PRIOR TO WORK COMMENCING.
 - EXISTING UNIT, MECHANICAL CONTRACTOR TO FIELD VERIFY AND CLEAN/INSPECT TO ENSURE FULL OPERATION.
 - CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCT MAIN AS REQUIRED. MECHANICAL CONTRACTOR TO VERIFY SIZE AND LOCATION OF EXISTING SUPPLY AIR DUCT MAINS PRIOR TO WORK COMMENCING.

**Mechanical Plan Review:
APPROVED**

Final approval shall be based upon HVAC inspection for adherence to the 2018 IMC, 2018 IFGC, Idaho Statute Title 54 Chapter 50, stamped approved plans and manufacturers installation instructions.

Verification of all fire damper and ceiling radiation damper locations in addition to those labeled on these plans will be verified during onsite inspection.

BLD2112-00033

REVIEWED FOR CODE COMPLIANCE

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SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

LKV ARCHITECTS
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PROFESSIONAL ENGINEER
REGISTERED
7009
8-17-21
STATE OF IDAHO
ROBERT D. TIKKER

TIKKER ENGINEERING
MECHANICAL ENGINEERING LTD.
500 N. Central Rd.
Boise, ID 83725
Phone: 208-333-2218
Fax: 208-333-2219
JOB # 21192

Revisions	Date

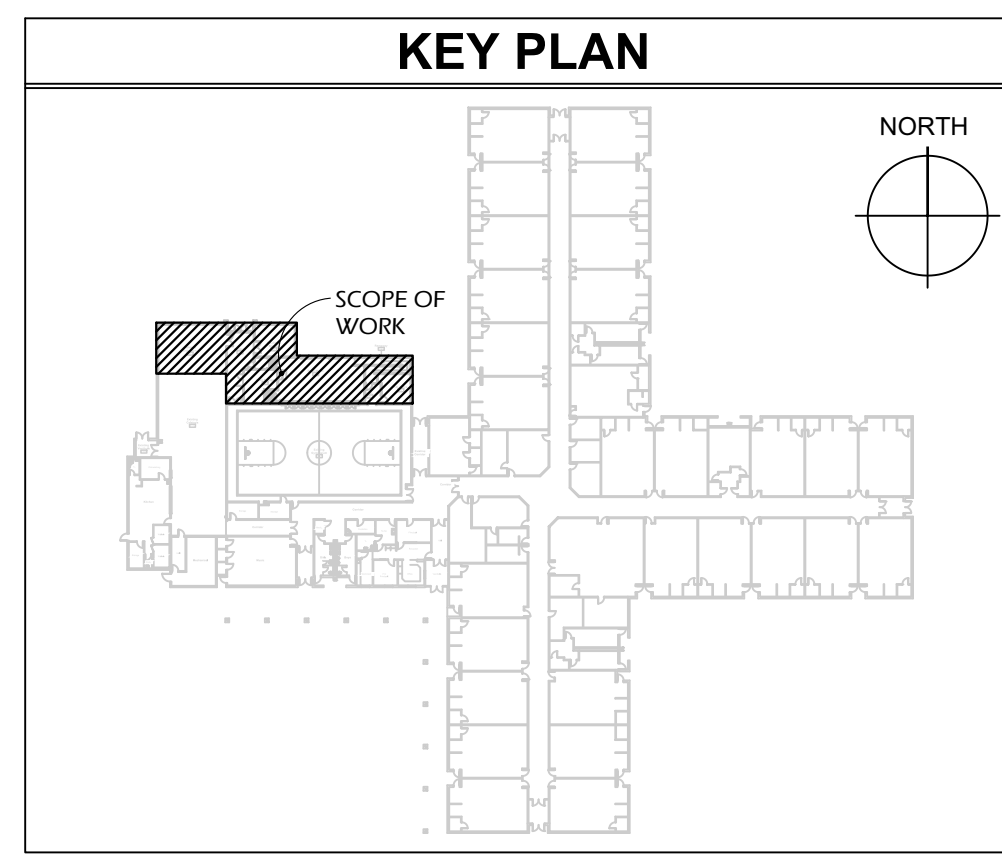
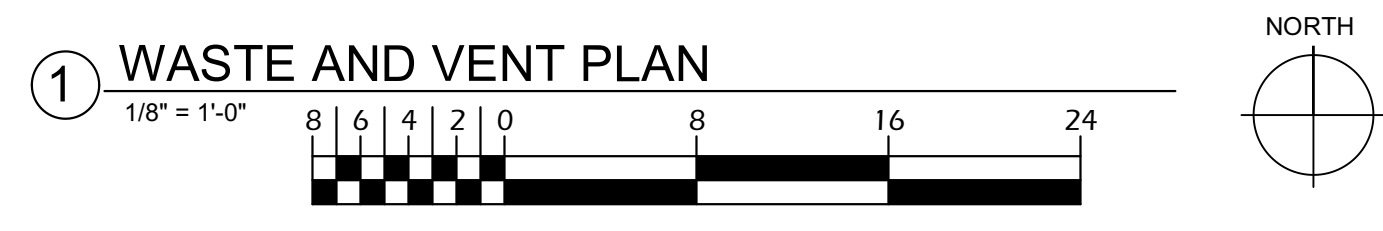
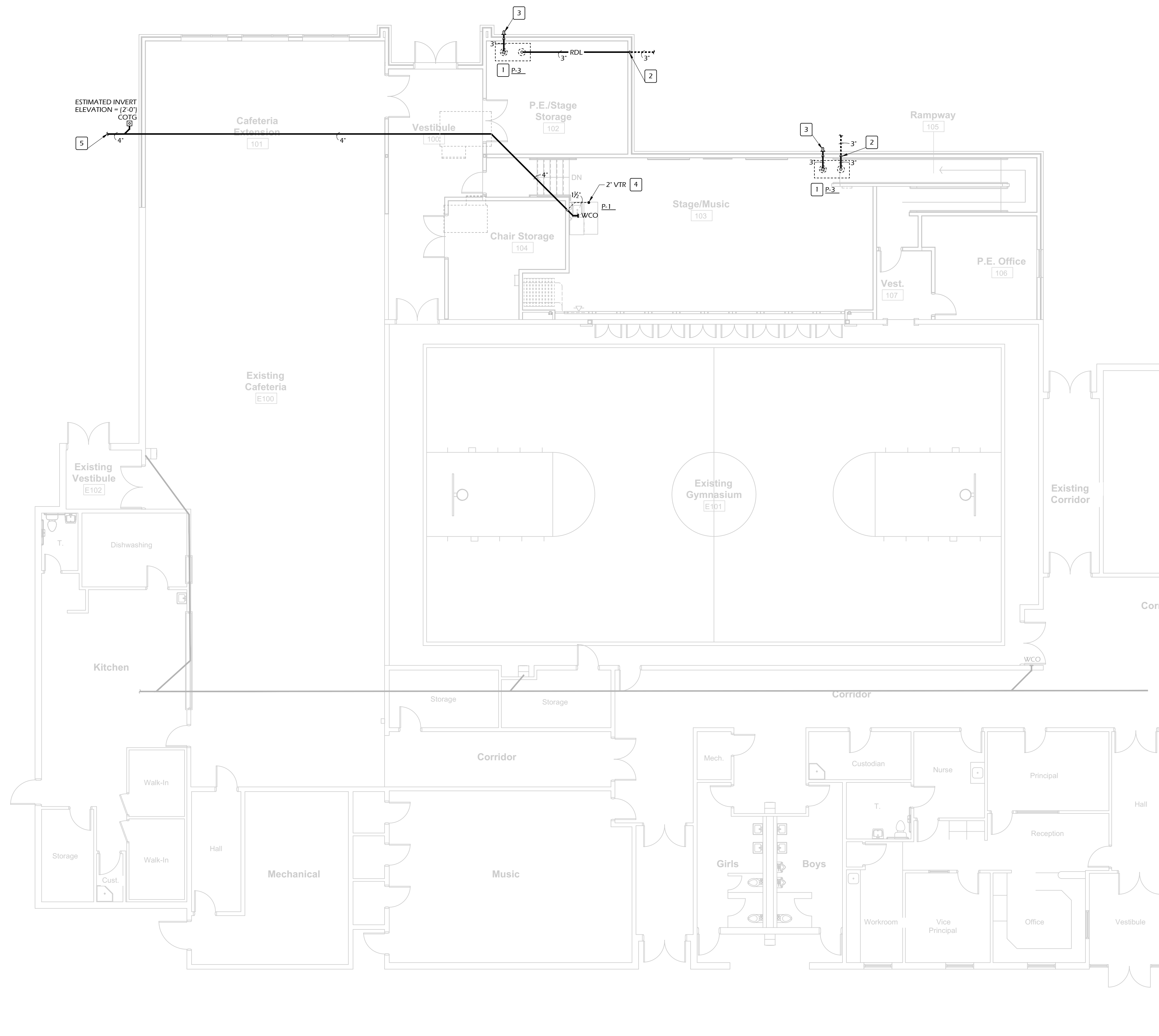
An Addition to
Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
LKV PROJECT #: 2122

DRAWN BY: UM
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BID SET

DRAWING NO.:
M2.1
HVAC PLAN



GENERAL NOTES:

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL PRINTS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
3. WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 4" AND LARGER IS TO BE INSTALLED AT 1/8" SLOPE PER FOOT PENDING VERIFICATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. ALL ROOF DRAIN PIPING MAY BE SLOPED AT A MINIMUM OF 1/8" PER FOOT OF HORIZONTAL RUN.
5. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION.

KEY NOTES:

1. 2" ROOF DRAIN AND 2" OVERFLOW DRAIN.
2. RUN 3" RDL DOWN WALL AND CONNECT TO STORM DRAINAGE SYSTEM. REFERENCE CIVIL PLANS FOR CONTINUATION.
3. RUN 3" OFL DOWN WALL AND DAYLIGHT 18" ABOVE FINISHED GRADE WITH 1770 J.R. SMITH DOWNSPOUT NOZZLE.
4. MAINTAIN 10'-0" (FEET) CLEARANCE FROM ALL FRESH AIR INTAKES.
5. CONNECT NEW WASTE LINE TO EXISTING WASTE LINE SERVICING SITE. PLUMBING CONTRACTOR TO VERIFY SIZE, INVERT ELEVATION AND TIE-IN LOCATION TO EXISTING WASTE LINE PRIOR TO WORK COMMENCING.

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 JOB # 21192

Revisions	Date
Description	

An Addition to
Horizon Elementary School
 Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
 LKV PROJECT #: 2122

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DRAWING NO.:

M3.0

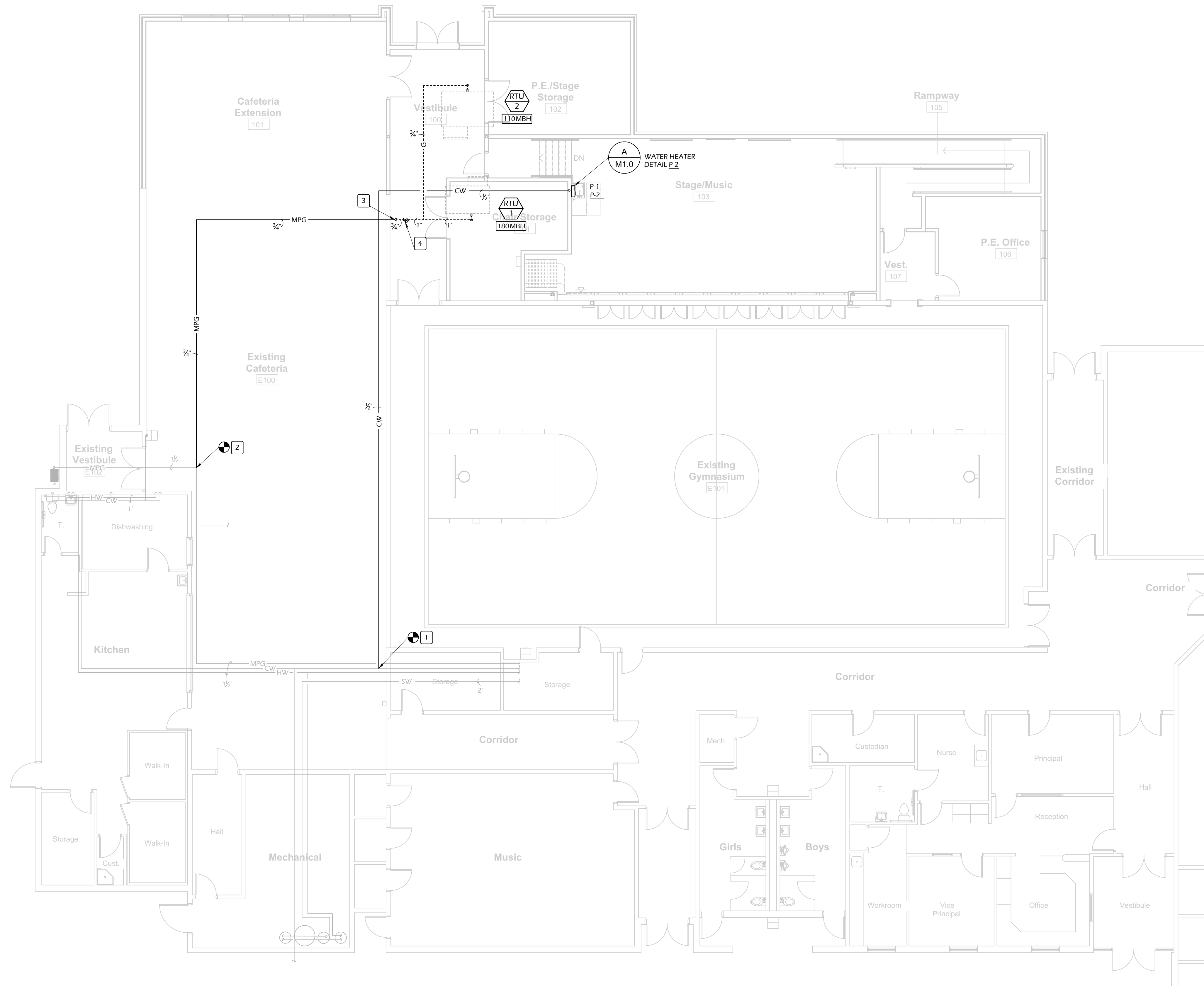
WASTE AND VENT PLAN

BLD2112-00033

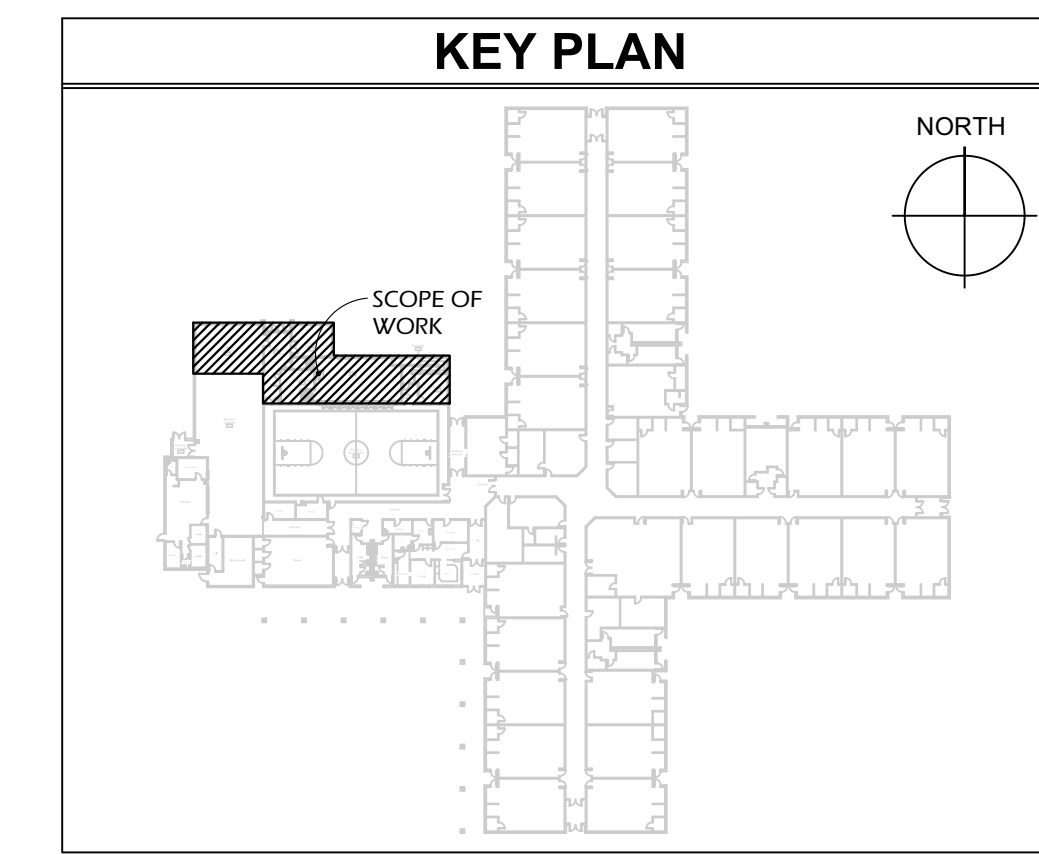
REVIEWED FOR CODE COMPLIANCE

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SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION



1 PLUMBING PLAN
 1/8" = 1'-0"
 8 6 4 2 0 8 16 24
 NORTH



- GENERAL NOTES:**
- COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
 - REFERENCE ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS & MOUNTING HEIGHTS.
 - LOCATE WATER PIPING IN HEATED AREAS ONLY. DO NOT LOCATE PIPING IN EXTERIOR WALLS OR UNINSULATED ROOF SPACES.
 - COORDINATE LOCATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
 - WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION.

- KEY NOTES:**
- CONNECT NEW CW LINE TO EXISTING CW MAIN LINE SERVING BUILDING. PLUMBING CONTRACTOR TO VERIFY SIZE AND LOCATION OF EXISTING CW MAIN LINE PRIOR TO WORK COMMENCING.
 - CONNECT NEW MEDIUM PRESSURE GAS LINE TO EXISTING MEDIUM PRESSURE GAS LINE SERVING BUILDING. PLUMBING CONTRACTOR TO VERIFY SIZE AND LOCATION OF EXISTING GAS LINE PRIOR TO WORK COMMENCING.
 - GAS LINE TO DROP DOWN FROM ROOF TO CEILING SPACE.
 - PROVIDE NEW LOW PRESSURE GAS PRV AND VENT TO ATMOSPHERE.

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Revisions	Date

An Addition to Horizon Elementary School
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DATE: 12/17/21
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DRAWING NO.:
M4.0
 PLUMBING PLAN

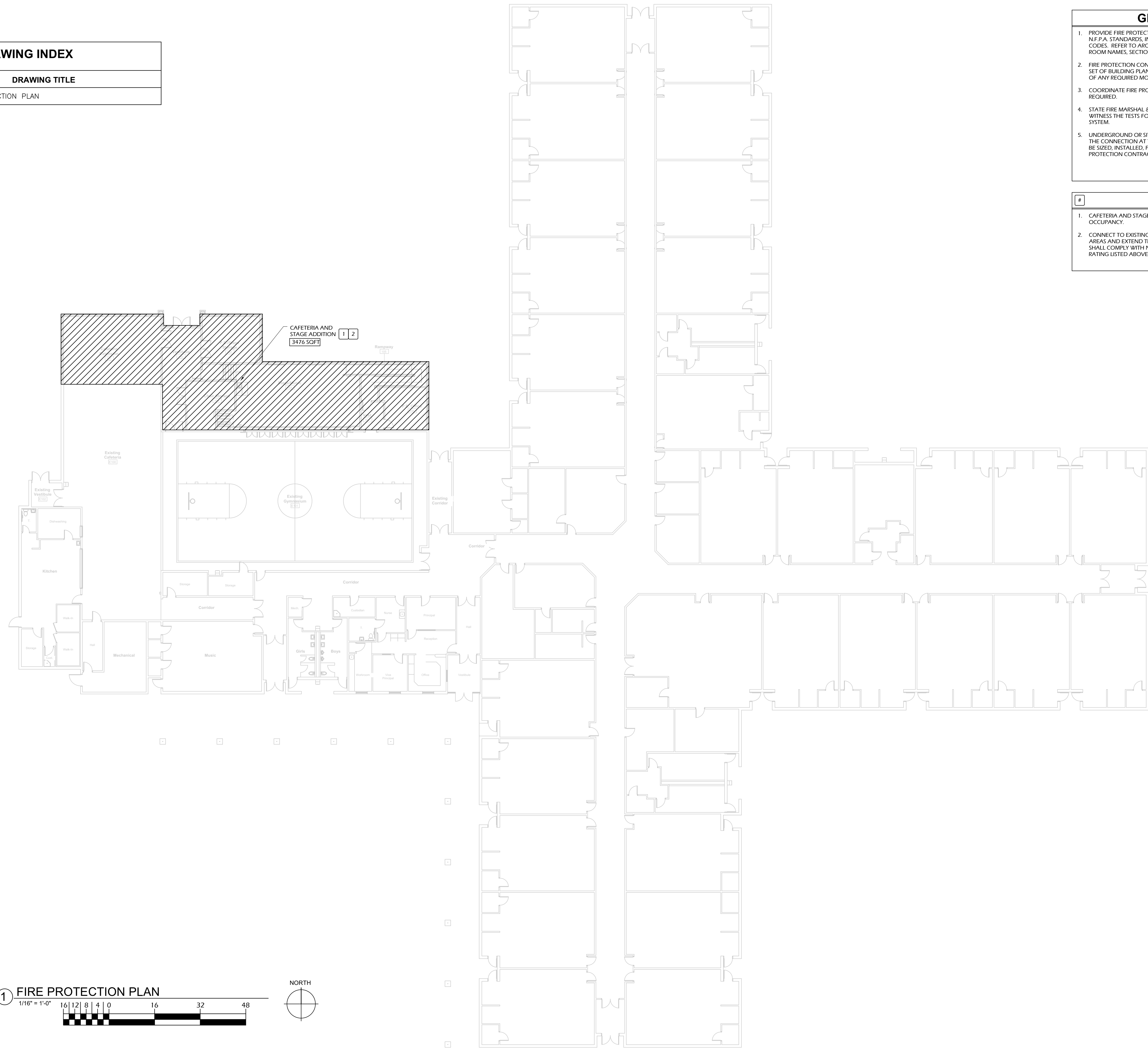
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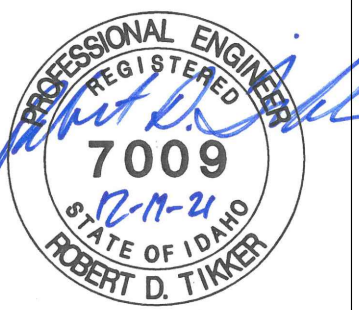
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

DRAWING INDEX	
SHEET	DRAWING TITLE
FP1.0	FIRE PROTECTION PLAN



- GENERAL NOTES:**
1. PROVIDE FIRE PROTECTION SYSTEM FOR THIS PROJECT IN ACCORDANCE WITH N.F.P.A. STANDARDS, INTERNATIONAL BUILDING CODE AND ALL APPLICABLE CODES. REFER TO ARCHITECTURAL DRAWINGS FOR COMPLETE FLOOR PLANS, ROOM NAMES, SECTIONS AND DETAILS.
 2. FIRE PROTECTION CONTRACTOR SHALL BECOME FAMILIAR WITH COMPLETE SET OF BUILDING PLANS AND SPECIFICATIONS AND SHALL NOTIFY ENGINEER OF ANY REQUIRED MODIFICATIONS FROM THAT SHOWN ON DRAWING.
 3. COORDINATE FIRE PROTECTION LINES & EQUIPMENT WITH ALL TRADES AS REQUIRED.
 4. STATE FIRE MARSHAL & LOCAL FIRE DEPARTMENT MUST BE NOTIFIED TO WITNESS THE TESTS FOR THE FIRE SPRINKLER SYSTEM & THE FIRE ALARM SYSTEM.
 5. UNDERGROUND OR SITE PORTION OF THE FIRE PROTECTION SYSTEM FROM THE CONNECTION AT THE DOMESTIC WATER MAIN TO THE BUILDING SHALL BE SIZED, INSTALLED, FLUSHED & PRESSURE-TESTED BY A LICENSED FIRE PROTECTION CONTRACTOR.

- KEY NOTES:**
1. CAFETERIA AND STAGE ADDITION TO BE CLASSIFIED AS A LIGHT HAZARD OCCUPANCY.
 2. CONNECT TO EXISTING WET PIPE SYSTEM SERVICING GYM AND CAFETERIA AREAS AND EXTEND THROUGHOUT NEW ADDITION AS REQUIRED. SYSTEM SHALL COMPLY WITH NFPA 13 PER GENERAL HAZARD CLASSIFICATION RATING LISTED ABOVE.



Revisions	Date
A	

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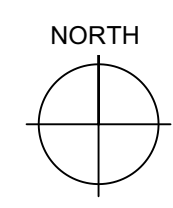
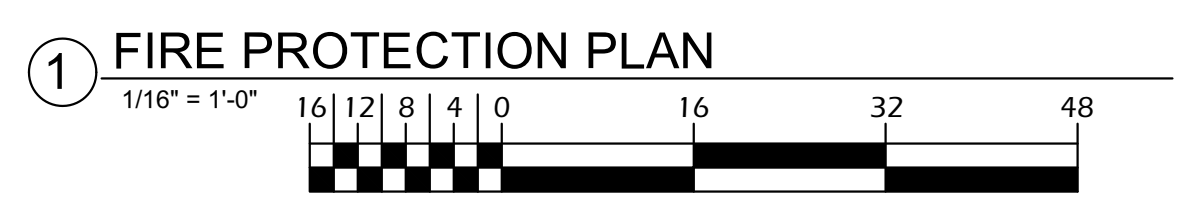
DATE: 12/17/21
 LKV PROJECT #: 2122

DRAWN BY: UM
 CHECKED BY: BT

BID SET

DRAWING NO.:

FP1.0
 FIRE PROTECTION PLAN



ELECTRICAL ABBREVIATIONS	
A	AMPERES
AC	6" ABOVE BACKSPASH
AFB	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
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
E	EMPTY/EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWIC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EXG	EXISTING
F	FUSE
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HACR	HEATING, AIR CONDITIONING, REFRIGERATION
IBT	INTERSYSTEM BONDING TERMINATION
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
JJB	JUNCTION BOX
KA	KILOAMP
KW	KILOWATT
KWH	KILOWATT HOUR
LTE	LONG TERM EVALUATION
M	MAGNETIC CONTACTOR COIL
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MA	MANHOLE
MH	METAL HALIDE
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCCELL
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
PIR	PASSIVE INFARED
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
T	TELEPHONE
TB	TERMINAL BOARD
TBD	TO BE DETERMINED
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER
X	EXPLOSION PROOF
XFR	TRANSFER

LIGHTING SYMBOLS see luminaire schedule for mounting and fixture type	
	2x4' ARCHITECTURAL LUMINAIRE
	2x4' PARABOLIC LUMINAIRE
	2x4' LUMINAIRE
	2x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	1x4' LUMINAIRE
	1x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	6x4' LUMINAIRE
	6x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	2x2' PARABOLIC LUMINAIRE
	2x2' LUMINAIRE
	SURFACE CABLE DOWN LUMINAIRE
	SURFACE PENDANT LUMINAIRE
	STEP LUMINAIRE
	RECESSED WALL WASH LUMINAIRE
	RECESSED SLOPED CEILING LUMINAIRE
	RECESSED ACCENT LUMINAIRE
	RECESSED LUMINAIRE
	RECESSED LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	INDIRECT LUMINAIRE (LENGTH AS INDICATED ON DWGS) GRID CEILING: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. DO NOT CUT OFF EXCESS AIRCRAFT CABLE. VERIFY FINAL MOUNTING HEIGHT WITH OWNER, SEE DETAIL ON DETAIL SHEET(S)
	INDIRECT LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED (LENGTH AS INDICATED ON DWGS) GRID CEILING: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. DO NOT CUT OFF EXCESS AIRCRAFT CABLE. VERIFY FINAL MOUNTING HEIGHT WITH OWNER, SEE DETAIL ON DETAIL SHEET(S)
	4' WALL FIXTURE
	4' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
	2' WALL FIXTURE
	2' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
	3' WALL FIXTURE
	EMERGENCY LUMINAIRE
	SURFACE/WALL MOUNTED FLOOD LIGHT
	TRACK LUMINAIRE HEAD MOUNTED AS INDICATED
	ROUND LUMINAIRE
	WALL MOUNTED LUMINAIRE
	TIMECLOCK
	PHOTOCCELL
	OCCUPANCY SENSOR. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 6FT FROM ANY HVAC DIFFUSERS.
	CEILING MOUNTED VACANCY SENSOR. VACANCY SENSOR TO BE INSTALLED NO LESS THAN 6FT FROM ANY HVAC DIFFUSERS. PROVIDE WITH LOW VOLTAGE MOMENTARY WALL SWITCH FOR MANUAL 'ON' CONTROL.
	POLE LIGHT WITH ONE HEAD ARM MOUNTED
	POLE LIGHT WITH TWO HEADS ARM MOUNTED
	WALLPACK LUMINAIRE
	WALLPACK LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	LIGHTING CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE, POLES, AND TYPE AS INDICATED ON DRAWING.
	CEILING MOUNTED EXIT SIGN, DOUBLE FACE
	WALL MOUNTED EXIT SIGN, DOUBLE FACE
	CEILING MOUNTED EXIT SIGN, SINGLE FACE
	WALL MOUNTED EXIT SIGN, SINGLE FACE
	WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO UNIT, SINGLE FACE
	ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN
MOUNTING TYPE → ALL → LAMP TYPE AND NUMBER TO DIFFERENT LUMINAIRE → UNG → E-DESIGNATES FIXTURE WITH EMERGENCY BATTERY	
FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH BODINE 90 MINUTE EMERGENCY BATTERY PACK (OR EQUAL) SUITABLE FOR THAT FIXTURES LAMP TYPE AND TO PRODUCE 50% OF THE ORIGINAL OUTPUT.	

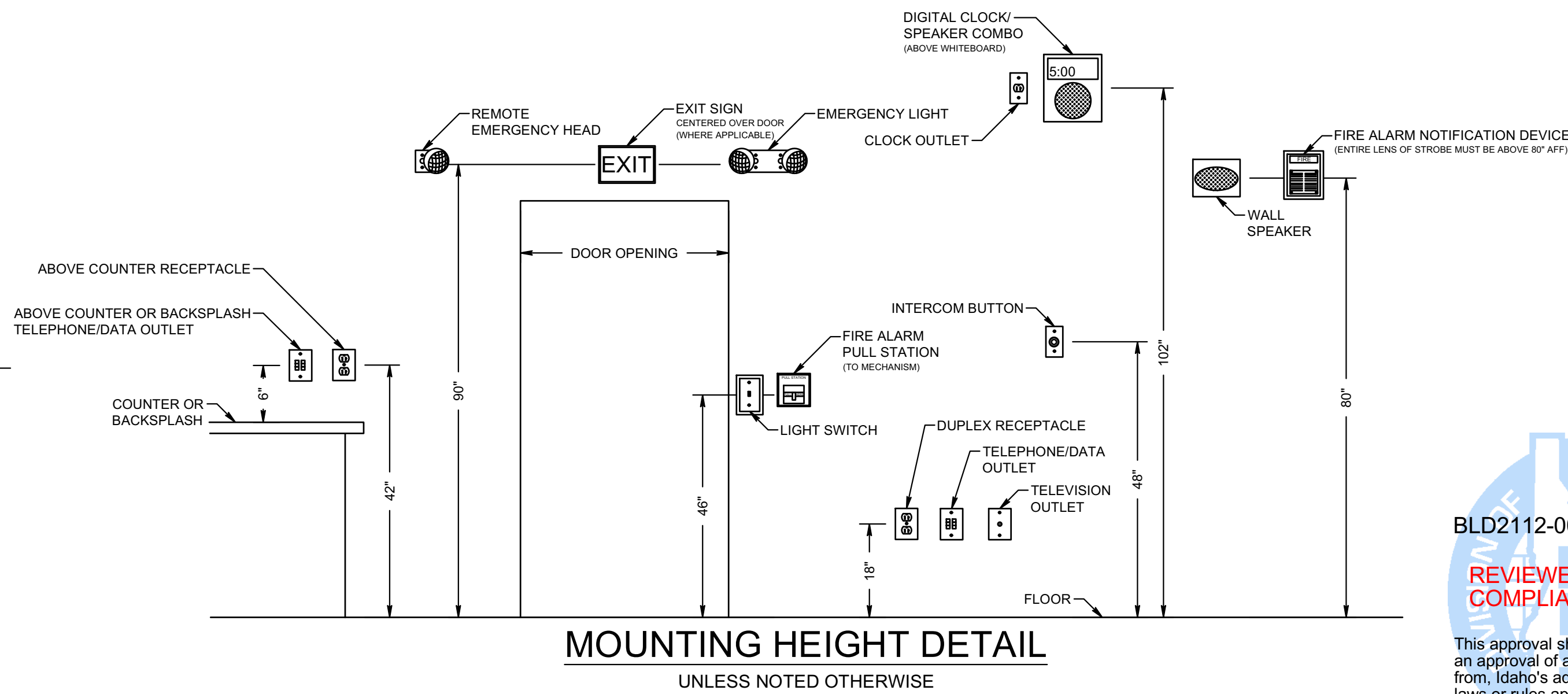
ELECTRICAL DEVICE SYMBOLS see electrical specifications for further information	
	DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	SINGLE RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	SINGLE RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
	DUPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
	DUPLEX RECEPTACLE. HALF OF RECEPTACLE SHALL BE SWITCHED. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	FOURPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	FOURPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
	SWITCH SUBSCRIPT INDICATES TYPE OF SWITCH. MOUNT AT +46" AFF UNLESS NOTED OTHERWISE
D	DIMMER
K	KEYED
LV	LOW VOLTAGE
M	MOMENTARY CONTACT
OV	VERRIDE
OC	OCCUPANCY SENSOR. SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR 2-POLE LINE VOLTAGE OCCUPANCY SENSOR, FURNISH AND INSTALL DUAL LEVEL SWITCHING. SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE.
VS	VACANCY SENSOR. SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE. VACANCY SENSOR TO BE PROVIDED WITH MANUAL 'ON' OPERATION.
P	PILOT LIGHT
TO	THERMAL OVERLOAD (THE NUMBER OF POLES TO MATCH CIRCUIT REQUIREMENTS AND BE SIZED FOR ASSOCIATED MOTOR LOAD.)
2	DOUBLE POLE
3	THREE WAY
4	FOUR WAY
a	SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED
	MOTOR STARTER/CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
	COMBINATION MOTOR STARTER AND DISCONNECT TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
	FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
	NON-FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
	THERMOSTAT MOUNTED AT +48" AFF UNLESS NOTED OTHERWISE. MECHANICAL UNIT TO BE CONTROLLED AS INDICATED.
	AQUASTAT
	EQUIPMENT CONNECTION POINT. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE.
	EQUIPMENT CONNECTION POINT MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE.
	GROUND ROD; 5/8" BY 10' MINIMUM, COPPER-CLAD
	JUNCTION BOX
	WALL MOUNTED PUSHBUTTON. MOUNT AT +46" AFF UNLESS NOTED OTHERWISE
	3 BUTTON DOOR CONTROLLER
	2 BUTTON DOOR CONTROLLER
	TRANSFORMER. SIZE AND TYPE AS INDICATED # = TRANSFORMER DESIGNATION
	MOTOR WITH THERMAL OVERLOAD
	MOTOR
	PANELBOARD. SEE ELECTRICAL SCHEDULES FOR TYPE, SIZE AND MOUNTING # = PANELBOARD DESIGNATION
	EQUIPMENT CABINET, SURFACE MOUNTED
	EQUIPMENT CABINET, FLUSH MOUNTED
	WALL MOUNTED CIRCUIT BREAKER. TYPE AND SIZE AS INDICATED
	WIREMOLD - POWER AND DATA RACEWAY MOUNT RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED
	PLUGMOLD - POWER ONLY
	MECHANICAL EQUIPMENT CALLOUT
	POWER POLE
	TWO COMPARTMENT POWER POLE

FIRE ALARM SYMBOLS see electrical specifications for further information	
FIRE ALARM ABBREVIATIONS:	
A	SMOKE ALARM - PHOTO ELECTRIC DETECTOR WITH AUDIBLE SOUNDING DEVICE
P	PHOTO-ELECTRIC DETECTOR
H	HEAT DETECTOR
ID	IN DUCT DETECTOR
D	DUCT DETECTOR
I	IONIZATION DETECTOR
LG	UNIT PROVIDED WITH PROTECTIVE LEXICAN SHIELD GUARD
WG	UNIT PROVIDED WITH PROTECTIVE WIRE GUARD
FIRE ALARM SYMBOLS:	
	SMOKE DETECTOR, ALL DEVICES CEILING MOUNTED
	ELECTROMAGNETIC DOOR HOLDER
	FIRE/SMOKE DAMPER
	PULL STATION, +46" AFF TO CENTER OF DEVICE
	FIRE ALARM HORN, +90" AFF TO BOTTOM OF DEVICE UNO
	FIRE ALARM HORN, CEILING MOUNT
	FIRE ALARM STROBE, +80" AFF TO BOTTOM OF DEVICE UNO, STROBE INTENSITY INDICATED
	FIRE ALARM STROBE, CEILING MOUNTED, STROBE INTENSITY INDICATED
	FIRE ALARM HORN/STROBE, +80" AFF TO BOTTOM OF DEVICE UNO, STROBE INTENSITY INDICATED
	FIRE ALARM HORN/STROBE CEILING MOUNTED, STROBE INTENSITY INDICATED
	FIRE ALARM SPEAKER/STROBE CEILING MOUNTED, STROBE INTENSITY INDICATED
	FIRE ALARM SPEAKER/STROBE, STROBE INTENSITY INDICATED
	FIRE ALARM SPEAKER CEILING MOUNTED
	FIRE ALARM BELL, +80" AFF UNO
	FIRE ALARM CHIME, +80" AFF UNO
	FIRE ALARM CHIME/STROBE, +80" AFF TO BOTTOM OF DEVICE UNO, STROBE INTENSITY INDICATED
	END OF LINE RESISTOR
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	FIRE SYSTEM ANNUNCIATOR, +60" AFF RECESSED IN WALL IN FINISHED AREAS
	FIRE ALARM CONTROL PANEL, +60" AFF RECESSED IN WALL IN FINISHED AREAS
	POST INDICATOR VALVE
	INDICATOR LIGHT
	INDICATOR LIGHT WITH TEST SWITCH
	FAN SHUT DOWN RELAY
	MONITOR MODULE
	CONTROL MODULE
	RELAY MODULE
FIRE ALARM SYSTEM CIRCUITING REQUIREMENTS:	
1. ALL CIRCUITING FOR THE FIRE ALARM SYSTEM INCLUDING NOTIFICATION AND SLC OR ZONE CIRCUITS SHALL BE INSTALLED IN CONDUIT. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL BLANK JUNCTION BOX COVERS ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE PAINTED RED IN COLOR.	

ONE LINE SYMBOLS see electrical specifications for further information	
	AUTOMATIC TRANSFER SWITCH, SIZE AND POLES AS INDICATED ON DRAWING
	CIRCUIT BREAKER, SIZE AND POLES AS INDICATED ON DRAWING
	PANELBOARD, NAME, SIZE, TYPE AS INDICATED ON DRAWINGS
	PAD MOUNTED TRANSFORMER BY LOCAL UTILITY
	METER
	GROUND BAR
	SECTOR SWITCH
SPECIAL SYSTEMS SYMBOLS see electrical specifications for further information	
	TELEPHONE/DATA OUTLET, +48" AFF UNO, FOUR SQUARE DEEP TYPE BOX WITH SINGLE OR DOUBLE GANG MUDRING AS REQUIRED PER NUMBER OF DROPS
	INDICATES 4 SQUARE EXTRA DEEP JUNCTION BOX WITH MUDRING AND BLANK COVER
	INDICATES SOUND SYSTEM MICROPHONE INPUT
	INDICATES MOUNTED ABOVE ACCESSIBLE CEILING #/T/D - # INDICATES NUMBER OF TELEPHONE/DATA
	1" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO TT8 AS NOTED.
	(TYPICAL NUMBER OF PORTS AND ASSOCIATED CONDUCTORS) BLANK IMPLIES EMPTY RACEWAY WITH COVERPLATE
	FLOOR MOUNTED TELEPHONE/DATA OUTLET CONDUCTORS
	INTERCOM
	CEILING MOUNTED SPEAKER WITH BACKBOX
	WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
	WALL MOUNTED LOUD SPEAKER
	PA - PUBLIC ADDRESS SYSTEM SPEAKER
	SS - SOUND SYSTEM SPEAKER
	WP - WEATHER PROOF
	WG - WIRE GUARD
	VOLUME CONTROL, MOUNT AT SWITCH HEIGHT UNO, RATING SHALL MEET OR EXCEED THE WATTAGE BEING CONTROLLED
	TELEVISION OUTLET, +18" AFF UNO
	CEILING MOUNTED TELEVISION OUTLET
	PUBLIC ADDRESS SYSTEM, PUSH TO TALK
	PUBLIC ADDRESS SYSTEM, WALL MOUNTED DIGITAL CLOCK WITH SPEAKER COMBO MOUNTED AT 8 1/2" ABOVE ROOM WHITEBOARD.
	PUBLIC ADDRESS SYSTEM, WALL MOUNTED DIGITAL CLOCK
	WIREMOLD - POWER AND DATA RACEWAY MOUNT DATA RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED.

CIRCUITING SYMBOLS see electrical specifications for further information	
	NEUTRAL ISOLATED GROUND
	CURRENT CARRYING CONDUCTORS A-2,4,6
	GROUNDING CONDUCTOR
	EM - EMERGENCY POWER SOURCE
	CIRCUIT CONCEALED IN WALL OR CEILING TYPICALLY TO BE 3#12-#12G, 3/4" (UNO)
	QUANTITY AND SIZE OF CONDUCTORS
	CONDUIT SIZE QUANTITY AND SIZE OF GROUNDING CONDUCTOR
	BEGINNING OF CIRCUIT AND NUMBER OF CIRCUIT
	CONDUIT UP
	CONDUIT DOWN
	UNDERGROUND OR CONCEALED CONDUIT
	EXISTING CONDUIT
	CONDUIT STUBBED, CAPPED, MARKED, AND PROVIDED WITH PULLSTRING
	FUTURE CONDUIT
LINE TYPES	
	EXISTING
	DEMOLITION
	FUTURE
	NEW
ELECTRICAL DRAWING SHEET INDEX	
E0.0	ELECTRICAL SYMBOLS AND SHEET INDEX
E2.0	OVERALL PLAN
E2.0DA	ELECTRICAL DEMOLITION PLAN - AREA 'A'
E2.0DB	ELECTRICAL DEMOLITION PLAN - AREA 'B'
E2.0DC	ELECTRICAL DEMOLITION PLAN - AREA 'C'
E2.0DD	ELECTRICAL DEMOLITION PLAN - AREA 'D'
E2.0FA	FIRE ALARM PLAN - AREA 'A'
E2.0FB	FIRE ALARM PLAN - AREA 'B'
E2.0FC	FIRE ALARM PLAN - AREA 'C'
E2.0FD	FIRE ALARM PLAN - AREA 'D'
E2.0L	LIGHTING PLAN - AREA 'A'
E2.0MP	MECHANICAL POWER PLAN - AREA 'A'
E2.0P	POWER PLAN - AREA 'A'
E2.0S	SPECIAL SYSTEMS PLAN - AREA 'A'
E3.0	ONE LINE DIAGRAM AND ELECTRICAL DETAILS
E3.1	ELECTRICAL SCHEDULES

Electrical Plan Review Note:
The stamped documentation has been Reviewed for Compliance in accordance with the NEC as adopted by the State of Idaho by an Electrical Plan Review. This shall not be construed as an approval of any violation of, or variance from Idaho's adopted codes, laws, standards, or rules. Final approval will be based upon on-site electrical inspections to field verify compliance. (Additional Electrical Plan Review Notes can be found on additional Electrical Drawing Sheets.)



MOUNTING HEIGHT DETAIL
UNLESS NOTED OTHERWISE

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

etco electrical contracting company
12/17/21
Engineering & Construction

Date	Description

Revisions

An Addition to
Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
LKV PROJECT #: 2122

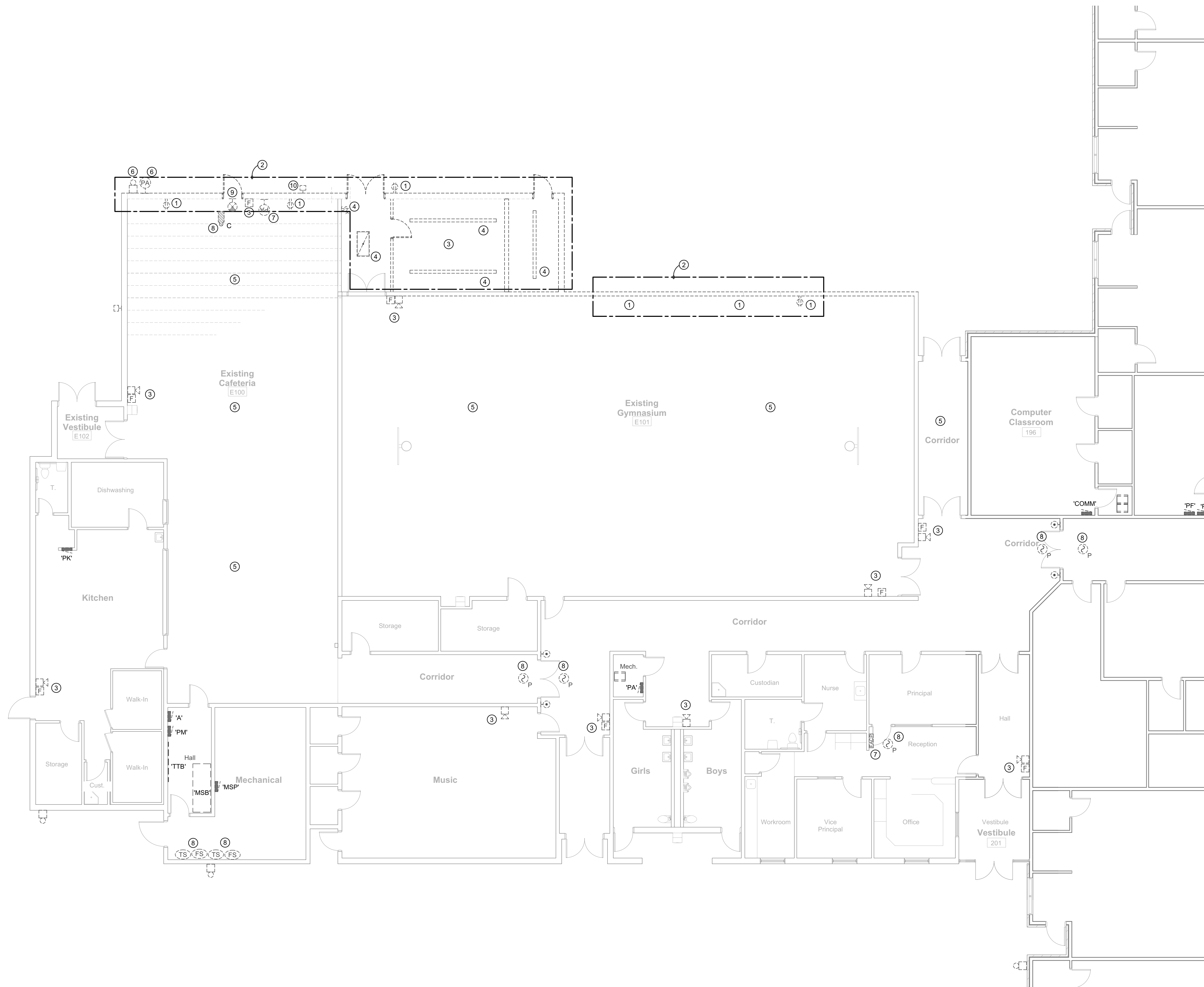
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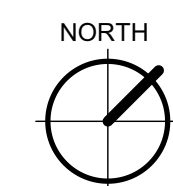
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E0.0
ELECTRICAL SYMBOLS AND SHEET INDEX

BLD2112-00033
REVIEWED FOR CODE COMPLIANCE

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION



ELECTRICAL DEMOLITION PLAN - AREA 'A'
SCALE: 1/8" = 1'-0"

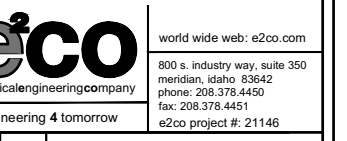
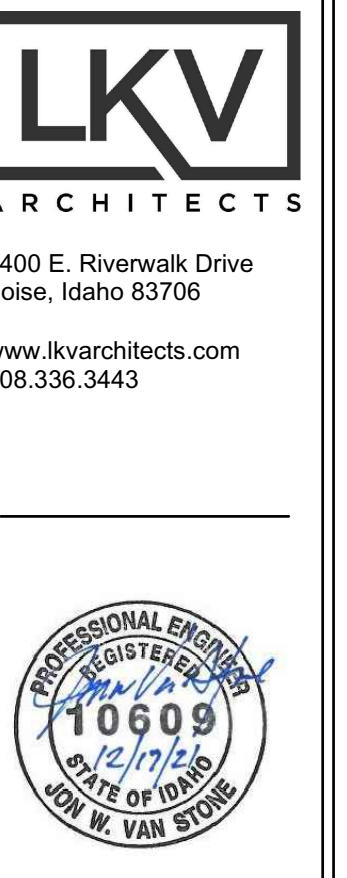


GENERAL NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING; IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
2. EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
3. PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
4. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
5. ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
6. ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
7. ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

KEYED NOTES:

1. DISCONNECT AND REMOVE ELECTRICAL ITEM INDICATED. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN FUNCTIONALITY TO ALL DOWN STREAM DEVICES THAT ARE TO REMAIN.
2. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THIS AREA, UNLESS OTHERWISE NOTED. INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SWITCHES, RECEPTACLES EXPOSED CONDUIT, SURFACE AND FLUSH MOUNTED DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL RACEWAY AND CONDUCTORS BACK TO SOURCE; CUT BACK, CAP AND ABANDON ALL CONCEALED RACEWAY AS REQUIRED. MAINTAIN FUNCTIONALITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
3. EXISTING FIRE ALARM SYSTEM EQUIPMENT INCLUDING NOTIFICATION AND INTIATION EQUIPMENT SHALL BE REMOVED THROUGHOUT ENTIRE BUILDING. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS ASSOCIATED WITH THE EXISTING FIRE ALARM SYSTEM. A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION SHALL BE INSTALLED THROUGHOUT THE SCHOOL. SEE FIRE ALARM PLANS FOR ADDITIONAL INFORMATION.
4. DISCONNECT POWER AND CONTROLS FROM LIGHT FIXTURE. REMOVE LIGHT FIXTURE AND CONTROLS. REMOVE ALL ASSOCIATED CONDUCTORS BACK TOWARD SOURCE TO EXPOSE UNSWITCHED LEG OF LIGHTING CIRCUIT AT ACCESSIBLE LOCATION. FROM THIS LOCATION THE UNSWITCHED LEG IS TO BE EXTENDED AND ROUTED TO NEW LIGHTING AND NEW CONTROLS AS INDICATED ON SHEET E2.0L.
5. EXISTING LIGHTING IN THIS AREA IS TO REMAIN, SEE SHEET E2.0L FOR ADDITIONAL INFORMATION.
6. EXISTING EXTERIOR PA AND CLASSROOM BELL DEVICES SHALL BE ARE TO DISCONNECTED AND RELOCATED TO EXTERIOR WALL OF NEW ADDITION. FIELD LOCATE DEVICE AND CONDUIT PATH, INSTALL JUNCTION BOX AT STRUCTURE AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW LOCATION.
7. EXISTING FIRE ALARM CONTROL PANEL TO BE DISCONNECTED AND REMOVED. THE EXISTING FIRE ALARM CONTROL PANEL IS A SILENT KNIGHT 8808 - THIS FIRE ALARM PANEL DOES NOT INCORPORATE VOICE EVACUATION. THE FIRE ALARM SYSTEM IS REQUIRED TO BE UPGRADED TO A VOICE EVACUATION SYSTEM PER THE FIRE MARSHALL. THE EXISTING FIRE ALARM CONTROL PANEL IS TO BE REMOVED AND REPLACED WITH A NEW FIRE ALARM CONTROL PANEL THAT IS A SILENT KNIGHT PANEL THAT IS COMPATIBLE WITH ANY EXISTING FIRE ALARM DEVICES THAT ARE TO REMAIN. THE SLC CIRCUITING IS TO REMAIN AND BE MAINTAINED TO DEVICES THAT ARE TO REMAIN. THE EXISTING NOTIFICATION DEVICES ARE HORN/STROBES AND ARE TO BE REMOVED AND NEW SPEAKER STROBES ARE TO BE INSTALLED.
8. INITIATION DEVICE TO REMAIN AND BE RECONNECTED TO NEW FIRE ALARM CONTROL PANEL.
9. EXISTING PUBLIC ADDRESS SPEAKER TO BE DISCONNECTED AND RELOCATED TO EXTERIOR WALL OF CAFETERIA ADDITION. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED.
9. EXISTING CCTV CAMERA TO BE DISCONNECTED AND RELOCATED TO EXTERIOR WALL OF CAFETERIA ADDITION. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED.
10. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS CONNECTING FIXTURE. NEW EXIT SIGN TO BE INSTALLED AS NOTED ON E2.0L.
10. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS CONNECTING FIXTURE. NEW EXTERIOR LIGHTING TO BE INSTALLED AS NOTED ON E2.0L. EXISTING BRANCH CIRCUIT SHALL BE UTILIZED TO POWER AND CONTROL NEW FIXTURES.
- 11.



Date	Description

An Addition to
Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
LKV PROJECT #: 2122

DRAWN BY: KTD
CHECKED BY: JWWS

BID SET

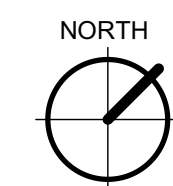
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E2.0DA

ELECTRICAL DEMOLITION
PLAN - AREA 'A'





ELECTRICAL DEMOLITION PLAN - AREA 'B'
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
2. EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
3. PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
4. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
5. ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
6. ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
7. ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

KEYED NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING FIRE ALARM CIRCUITING.
2. EXISTING FIRE ALARM CONDUIT IS APPROVED FOR RE-USE - WHERE THE EXISTING INSTALLATION MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND NFPA 72.
3. EXISTING FIRE ALARM SYSTEM EQUIPMENT INCLUDING NOTIFICATION AND INITIATION EQUIPMENT SHALL BE REMOVED THROUGHOUT ENTIRE BUILDING. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS ASSOCIATED WITH THE EXISTING FIRE ALARM SYSTEM. A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION SHALL BE INSTALLED THROUGHOUT THE SCHOOL. SEE FIRE ALARM PLANS FOR ADDITIONAL INFORMATION.



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Engineering # 10609

Revisions	Description	Date
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An Addition to
Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
LKV PROJECT #: 2122

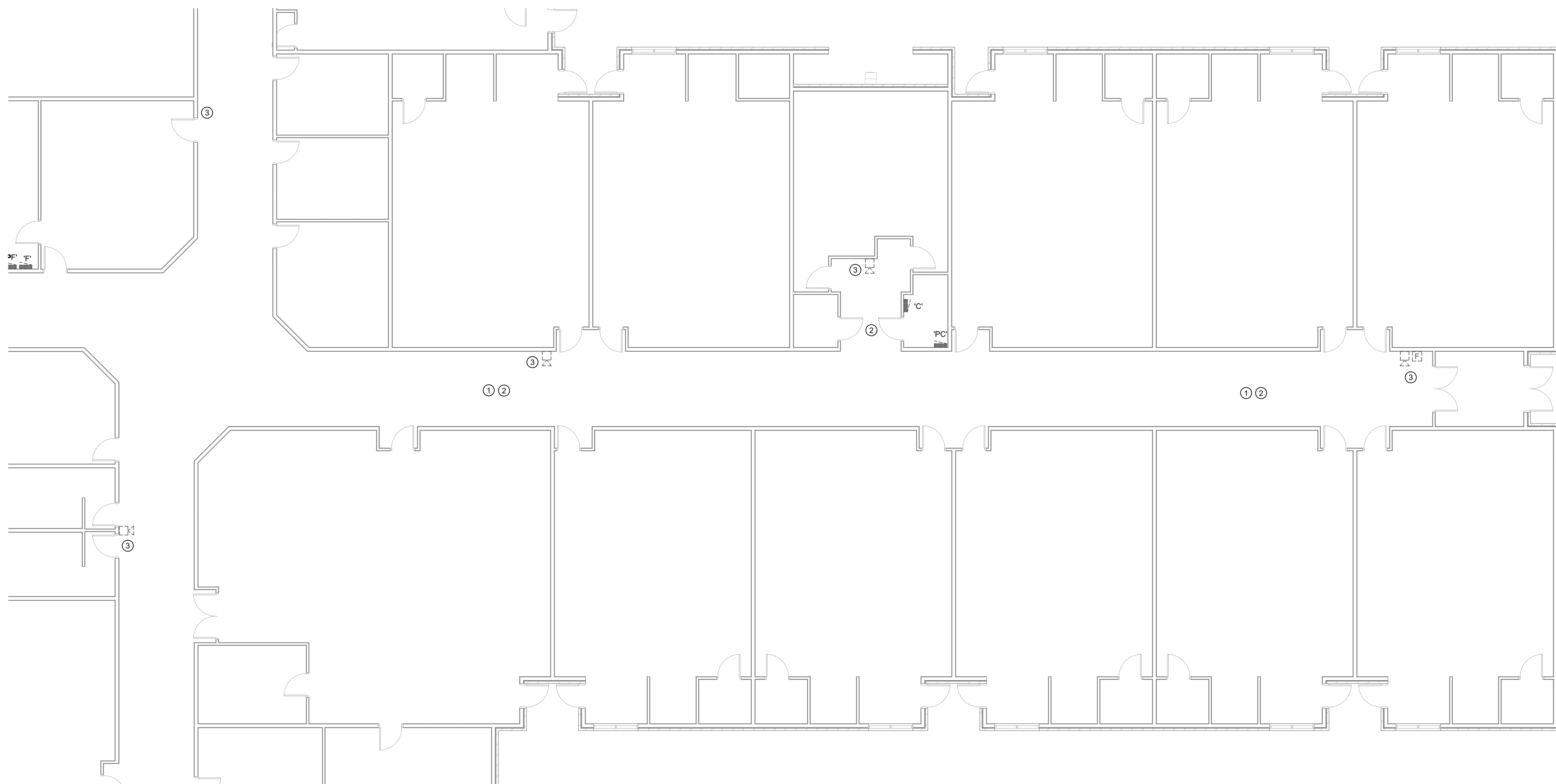
DRAWN BY: KTD
CHECKED BY: JWVS

BID SET

DRAWING NO.:
E2.0DB

ELECTRICAL DEMOLITION
PLAN - AREA 'B'





ELECTRICAL DEMOLITION PLAN - AREA 'C'
 SCALE: 1/8" = 1'-0"
 NORTH

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
2. EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
3. PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
4. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
5. ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
6. ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
7. ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

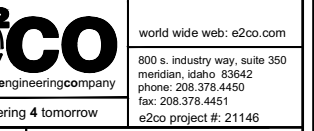
KEYED NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING FIRE ALARM CIRCUITING.
2. EXISTING FIRE ALARM CONDUIT IS APPROVED FOR RE-USE - WHERE THE EXISTING INSTALLATION MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND NFPA 72.
3. EXISTING FIRE ALARM SYSTEM EQUIPMENT INCLUDING NOTIFICATION AND INITIATION EQUIPMENT SHALL BE REMOVED THROUGHOUT ENTIRE BUILDING. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS ASSOCIATED WITH THE EXISTING FIRE ALARM SYSTEM. A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION SHALL BE INSTALLED THROUGHOUT THE SCHOOL. SEE FIRE ALARM PLANS FOR ADDITIONAL INFORMATION.



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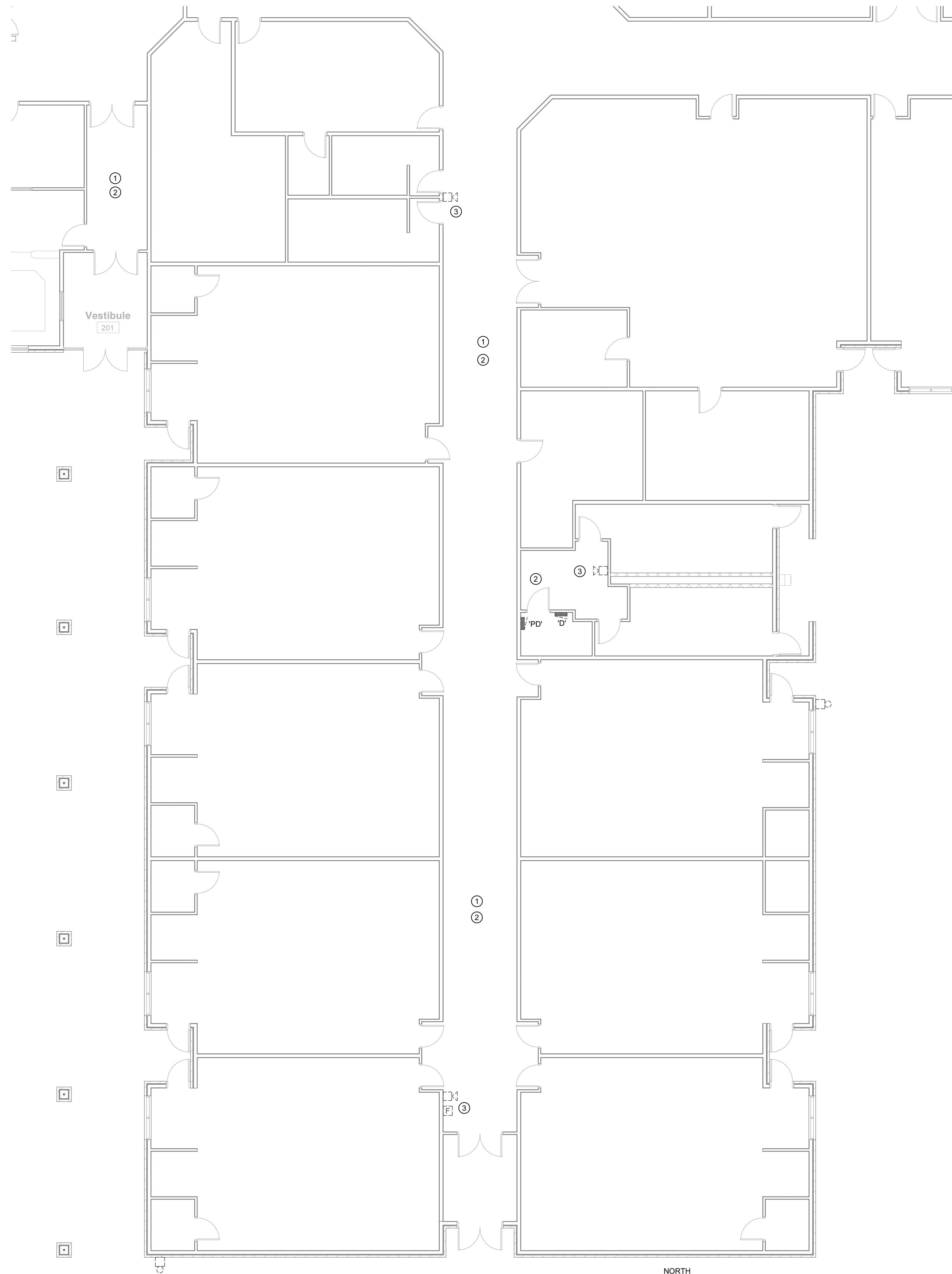
DRAWN BY: KTD
 CHECKED BY: JWS

BID SET

DRAWING NO:
E2.0DC

ELECTRICAL DEMOLITION
 PLAN - AREA 'C'





ELECTRICAL DEMOLITION PLAN - AREA 'D'
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

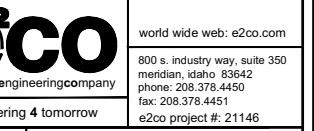
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING; IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
2. EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
3. PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
4. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
5. ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
6. ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
7. ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

KEYED NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING FIRE ALARM CIRCUITING.
2. EXISTING FIRE ALARM CONDUIT IS APPROVED FOR RE-USE - WHERE THE EXISTING INSTALLATION MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND NFPA 72.
3. EXISTING FIRE ALARM SYSTEM EQUIPMENT INCLUDING NOTIFICATION AND INITIATION EQUIPMENT SHALL BE REMOVED THROUGHOUT ENTIRE BUILDING. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS ASSOCIATED WITH THE EXISTING FIRE ALARM SYSTEM. A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION SHALL BE INSTALLED THROUGHOUT THE SCHOOL. SEE FIRE ALARM PLANS FOR ADDITIONAL INFORMATION.



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DRAWN BY: KTD
CHECKED BY: JWWS

BID SET

DRAWING NO.:
E2.0DD

ELECTRICAL DEMOLITION
PLAN - AREA 'D'





GENERAL NOTES:

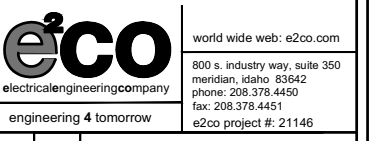
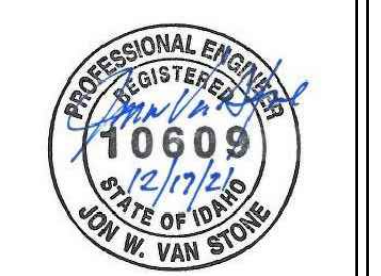
1. FIRE ALARM CONTRACTOR TO VERIFY CIRCUIT LENGTHS, BATTERY CALCS AND VOLTAGE DROP AND MODIFY CIRCUITING AS REQUIRED. ADDITIONAL NAC PANELS MAY BE REQUIRED BASED ON FINAL CIRCUITING.
2. ALL A/V NOTIFICATION DEVICES TO BE SYNCHRONIZED AND TEMPORAL CODED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. ALL NEW PULL STATIONS SHALL HAVE A COVER THAT ISSUES A LOCAL AUDIO ALARM WHEN LIFTED - TO DISCOURAGE FALSE ALARM PULLS. THE COVER IS APPROVED TO BE A BATTERY POWERED COVER OR BE CONNECTED TO THE FIRE ALARM SYSTEM FOR LOW VOLTAGE POWER.
4. THE EXISTING FIRE ALARM SYSTEM IS TO BE REPLACED THROUGHOUT THE FACILITY. THIS INCLUDES ALL NOTIFICATION DEVICES AND INITIATION DEVICES. THE EXISTING FIRE ALARM SYSTEM IS A SILENT KNIGHT 8808. THE NEW FIRE ALARM CONTROL PANEL SHALL BE A SILENT KNIGHT FIRE ALARM CONTROL PANEL THAT IS COMPATIBLE WITH ANY DEVICES THAT ARE EXISTING TO REMAIN OR THOSE DEVICES SHALL BE REPLACED AND THE EXISTING FIRE ALARM CONDUCTORS SHALL EITHER BE REPLACED OR RE-UTILIZED. THE NEW FIRE ALARM NOTIFICATION SHALL INCORPORATE VOICE EVACUATION WHICH IS WHY THE EXISTING HORN/STROBES ARE TO BE REMOVED. THE EXISTING INITIATION PULL STATIONS ARE MOUNTED ABOVE ADA HEIGHT RESTRICTIONS WHICH IS WHY THE PULL STATIONS ARE TO BE DISCONNECTED AND REMOVED AND REPLACED WITH NEW DEVICES. ALL EXISTING DEVICES (DUCT SMOKE DETECTORS, SMOKE DETECTORS, MONITOR MODULES, CONTROL MODULES, ETC) ARE TO REMAIN AND BE RE-CONNECTED TO NEW FIRE ALARM CONTROL PANEL.

KEYED NOTES:

1. FIRE ALARM CONTROL PANEL MOUNT AT +60" AFF.
2. FIRE ALARM ANNUNCIATOR PANEL, MOUNT PANEL AT +60" AFF.
3. TO FIRE ALARM CONTROL PANEL.
4. TO FACP SIGNALING LINE CIRCUIT(S) (SLC).
5. CONNECT TO EXISTING BRANCH CIRCUIT POWERING EXISTING FACP BEING REMOVED AND REPLACED WITH NEW. MAINTAIN EXISTING BRANCH CIRCUITING FOR FIRE ALARM CONTROL PANEL AND FIRE ALARM BELL.
6. MAINTAIN EXISTING DIGITAL FIRE ALARM COMMUNICATOR INSTALLED ON WALL ABOVE PANEL - CONNECT NEW FIRE ALARM CONTROL PANEL TO EXISTING COMMUNICATOR. PROVIDE ALL REQUIRED MODIFICATIONS TO ENSURE NEW FIRE ALARM CONTROL PANEL IS MONITORED.
7. KNOX BOX, FURNISHED AND INSTALLED BY DIVISION 16, MONITORED BY FIRE ALARM CONTROL PANEL.
8. MOUNT DETECTOR ON RETURN SIDE OF UNIT. DETECTOR TO SHUT DOWN HVAC UNIT UPON ACTIVATION. DIVISION 16 TO FURNISH DUCT DETECTOR AND ASSOCIATED PARTS, DIVISION 15 TO INSTALL THE DUCT DETECTOR, AND DIVISION 16 TO MAKE FINAL CONNECTIONS.
9. EXISTING MONITORING OF FLOWS AND TAMPER SWITCHES OF FIRE SPRINKLER TO REMAIN, MAINTAIN ALL MONITORING OF EQUIPMENT BY NEW FIRE ALARM CONTROL PANEL.
10. EXISTING DOOR HOLD OPENS TO REMAIN AND BE CONNECTED TO AND CONTROLLED BY NEW FIRE ALARM CONTROL PANEL.
11. EXISTING MONITORING OF KITCHEN HOOD ANSUL SYSTEM TO REMAIN. VERIFY EXACT LOCATION AND CONNECTION WITH ANSUL SYSTEM.



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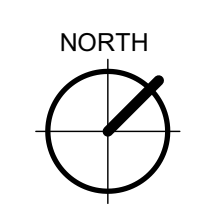
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DRAWING NO.:
E2.0FA

FIRE ALARM PLAN - AREA 'A'

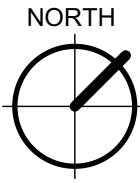


FIRE ALARM PLAN - AREA 'A'
SCALE: 1/8" = 1'-0"





FIRE ALARM PLAN - AREA 'B'
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

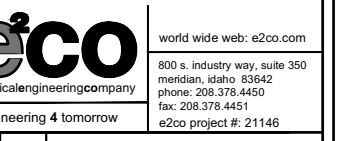
1. FIRE ALARM CONTRACTOR TO VERIFY CIRCUIT LENGTHS, BATTERY CALCS AND VOLTAGE DROP AND MODIFY CIRCUITING AS REQUIRED. ADDITIONAL NAC PANELS MAY BE REQUIRED BASED ON FINAL CIRCUITING.
2. ALL AV NOTIFICATION DEVICES TO BE SYNCHRONIZED AND TEMPORAL CODED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. TO FACP SIGNALING LINE CIRCUIT(S) (SLC).



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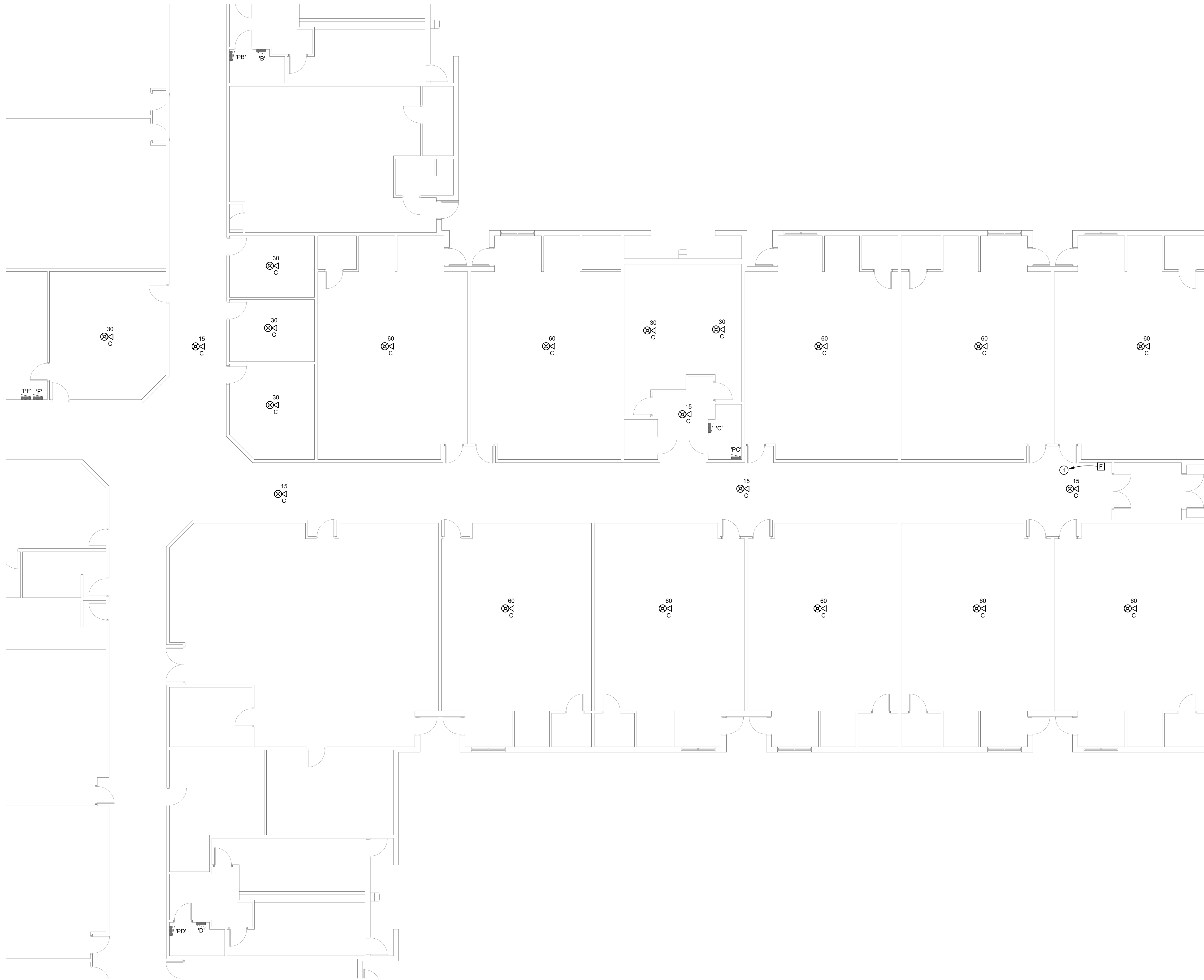
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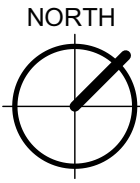
FIRE ALARM PLAN - AREA 'B'



This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.



FIRE ALARM PLAN - AREA 'C'
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. FIRE ALARM CONTRACTOR TO VERIFY CIRCUIT LENGTHS, BATTERY CALCS AND VOLTAGE DROP AND MODIFY CIRCUITING AS REQUIRED. ADDITIONAL NAC PANELS MAY BE REQUIRED BASED ON FINAL CIRCUITING.
2. ALL A/V NOTIFICATION DEVICES TO BE SYNCHRONIZED AND TEMPORAL CODED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. TO FACP SIGNALING LINE CIRCUIT(S) (SLC).

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 1000 S. Main St., Suite 200
 Boise, Idaho 83725
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 Engineering & Construction

Revisions	Description	Date
A		

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 Jerome School District No. 261, Jerome, Idaho

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 CHECKED BY: JWVS

BID SET

DRAWING NO.:
E2.0FC

FIRE ALARM PLAN - AREA 'C'

BLD2112-00033
REVIEWED FOR CODE COMPLIANCE
 This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION



FIRE ALARM PLAN - AREA 'D'
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

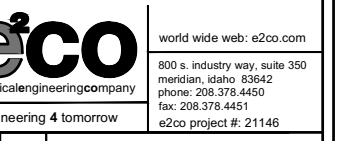
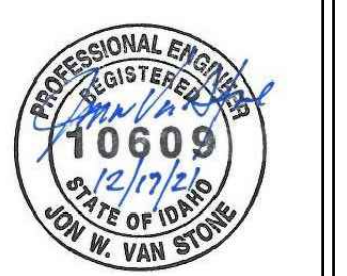
1. FIRE ALARM CONTRACTOR TO VERIFY CIRCUIT LENGTHS, BATTERY CALCS AND VOLTAGE DROP AND MODIFY CIRCUITING AS REQUIRED. ADDITIONAL NAC PANELS MAY BE REQUIRED BASED ON FINAL CIRCUITING.
2. ALL AV NOTIFICATION DEVICES TO BE SYNCHRONIZED AND TEMPORAL CODED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. TO FACP SIGNALING LINE CIRCUIT(S) (SLC).



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DRAWING NO.:
E2.0FD

FIRE ALARM PLAN - AREA 'D'





LIGHTING PLAN
SCALE: 1/8" = 1'-0"

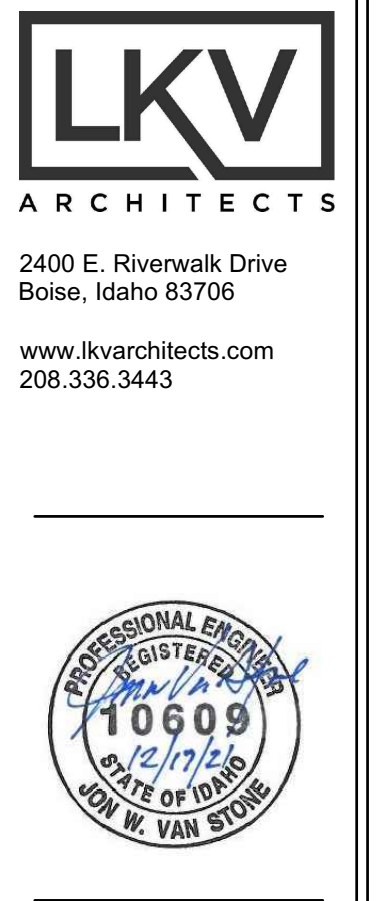
LIGHTING: GENERAL NOTES:

- ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK AS SPECIFIED ON THE FIXTURE SCHEDULE AND THE EMERGENCY FIXTURE SHALL BE PROVIDED WITH AND UNSWITCHED LEG THAT SHALL BE CONNECTED TO THE EMERGENCY BATTERY PACK.
- ALL OCCUPANCY SENSORS THAT ARE INTERCONNECTED WITH THE HVAC CONTROL SYSTEM SHALL BE SET TO A MINIMUM OF 30 MINUTE DELAY.
- ALL UNSWITCHED LEGS OF THE LIGHTING CIRCUIT SHALL BE ROUTED THROUGH OCCUPANCY SENSOR PRIOR TO ROUTING THROUGH SNAP SWITCHES TO PROVIDE UNSWITCHED POWER TO OCCUPANCY SENSOR FOR OCCUPANT INITIATION OF SENSOR.

KEYED NOTES:

- CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT. CARRY UNSWITCHED LEG THROUGH RACEWAY SYSTEM TO EGRESS FIXTURE FOR CONTINUOUS POWER TO BATTERY.
- FIXTURE TO OPERATE AS A NIGHT LIGHT, CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT.
- LINE VOLTAGE, DUAL-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR SMALL MOTION, SENSOR SWITCH NO. CMR-PDT-9-WH OR PRE-BID APPROVED EQUAL. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 6 FT FROM ANY HVAC DIFFUSERS. SEE WIRING DETAIL ON E3.0.
- LINE-VOLTAGE, PIR SWITCH MOUNTED VACANCY SENSOR, SENSOR SWITCH NO. WSX-SA-WH OR APPROVED EQUAL. VACANCY SENSOR TO BE SET TO MANUAL 'ON/AUTO' 'OFF' CONTROL.
- EXISTING LIGHTING IN THIS AREA IS TO REMAIN, MAINTAIN ALL EXISTING BRANCH CIRCUITING AND CONTROLS.
- LOW-VOLTAGE, DUAL-TECHNOLOGY CEILING MOUNTED VACANCY SENSOR WITH POWER PACK. VACANCY SENSOR TO PROVIDE MANUAL ON/ AUTO OFF CONTROL IN LOW VOLTAGE MOMENTARY SWITCH. SENSOR TO BE SENSOR SWITCH NO. CM-PDT9-PP20-WH OR PRE-BID APPROVED EQUAL. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 6 FT FROM ANY HVAC DIFFUSERS. SEE WIRING DETAIL ON E3.0.
- CONNECT LIGHTING BRANCH CIRCUIT TO EXISTING EXTERIOR LIGHTING BRANCH CIRCUIT. PROVIDE SWITCHED LEG FOR ON/OFF CONTROL OF LIGHTING. MAINTAIN EXISTING LIGHTING CONTROLS. PROVIDE UNSWITCHED LEG FROM SAME CIRCUIT FOR CONTINUOUS POWER CONNECTION TO BATTERY PACK INTEGRAL TO FIXTURE FOR EGRESS LIGHTING.
- CONNECT TO EXISTING SWITCHED LEG OF LIGHTING BRANCH CIRCUIT FOR LIGHTING IN THE EXISTING CAFETERIA.
- COORDINATE LOCATION OF LIGHT FIXTURES IN THE STAGE AREA WITH THE SUPPORTS FOR THE STAGE CURTAINS PRIOR TO ROUGH-IN OF LIGHTING.
- LOW VOLTAGE CONTROL SHALL BE THE SAME MANUFACTURER OF THE SENSOR AND INCORPORATE 0-10V DIMMING THE FIXTURES IN THE STAGE AREA.
- LOW VOLTAGE CONTROL SHALL UTILIZE 0-10V DIMMING THE TRACK FIXTURES IN THE STAGE AREA.

Electrical Plan Review Note:
NEC 110.26 (D) - Illumination shall be provided for all working spaces about electrical service equipment and shall not be controlled by automatic means only.



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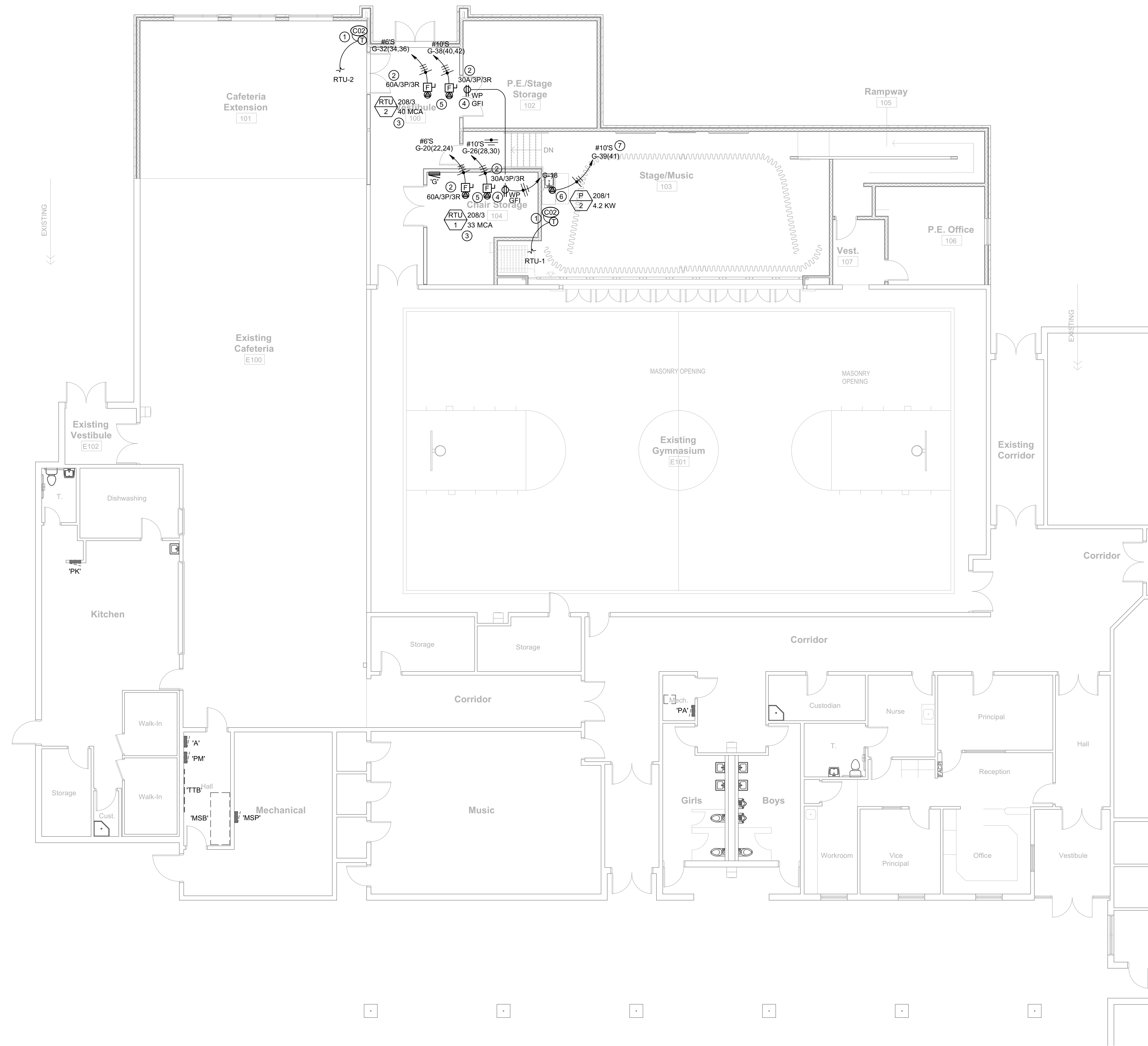
DRAWN BY: KTD
CHECKED BY: JWWS

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DRAWING NO.:
E2.0L

LIGHTING PLAN





MECHANICAL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

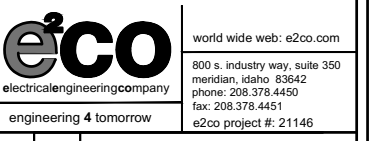
- COORDINATE ALL WORK ON HVAC SYSTEMS WITH DIVISION 15.
- ALL BREAKERS SUPPLYING MECHANICAL EQUIPMENT SHALL BE HACR RATED.
- CONTRACTOR SHALL ROUTE ALL CONDUIT AND CONDUCTORS IN CEILING SPACE BELOW ROOF. IF CONTRACTOR ROUTES CONDUIT AND CONDUCTORS ON ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS PER SECTION 310.15(A)(2) OF THE 2017 NEC AND MODIFY CONDUIT SIZES AS REQUIRED.

KEYED NOTES:

- PRIOR TO ROUGH-IN DIVISION 16 TO COORDINATE LOCATION AND MOUNTING HEIGHTS OF T-STAT OR SENSOR WITH DIVISION 15. DIVISION 16 TO FURNISH AND INSTALL BACKBOX, 1/2" CONDUIT, AND CONDUCTORS UP TO ABOVE ACCESSIBLE CEILING; CONTINUE CONDUCTORS TO MECHANICAL EQUIPMENT INDICATED. DIVISION 15 TO FURNISH T-STAT OR SENSOR AND MAKE FINAL CONNECTIONS. COORDINATE SIZE AND NUMBER OF CONDUCTORS WITH DIVISION 15.
- MOUNT DISCONNECT(S) ON UNISTRUT RACK, MAINTAIN 30" CLEARANCE SIDE TO SIDE AND 36" CLEARANCE IN FRONT OF DISCONNECT. FUSE DISCONNECT AT EQUIPMENT NAMEPLATE. PROVIDE FUSE REDUCERS WHERE REQUIRED BASED ON ACTUAL EQUIPMENT NAMEPLATE.
- MECHANICAL EQUIPMENT MOUNTED ON ROOF.
- MOUNT RECEPTACLE ON UNI-STRUT RACK NEXT TO THE MECHANICAL UNIT DISCONNECT. COORDINATE INSTALLATION WITH DIVISION 15 PRIOR TO ROUGH-IN.
- SEPARATE CONNECTION TO POWERED EXHAUST UNIT. COORDINATE ALL CONNECTIONS FOR BRACH CIRCUITING AND INTERCONNECTION BETWEEN UNIT WITH MECHANICAL EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECTS AND INSTALL CONTROL CONDUIT AND CONDUCTORS BETWEEN RTU AND POWER EXHAUST UNIT.
- CONNECTION TO INSTANTANEOUS WATER HEATER. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- FURNISH AND INSTALL LOCKOUT DEVICE ON BREAKER FOR DISCONNECTING REQUIREMENTS FOR WATER HEATER PER THE NEC.



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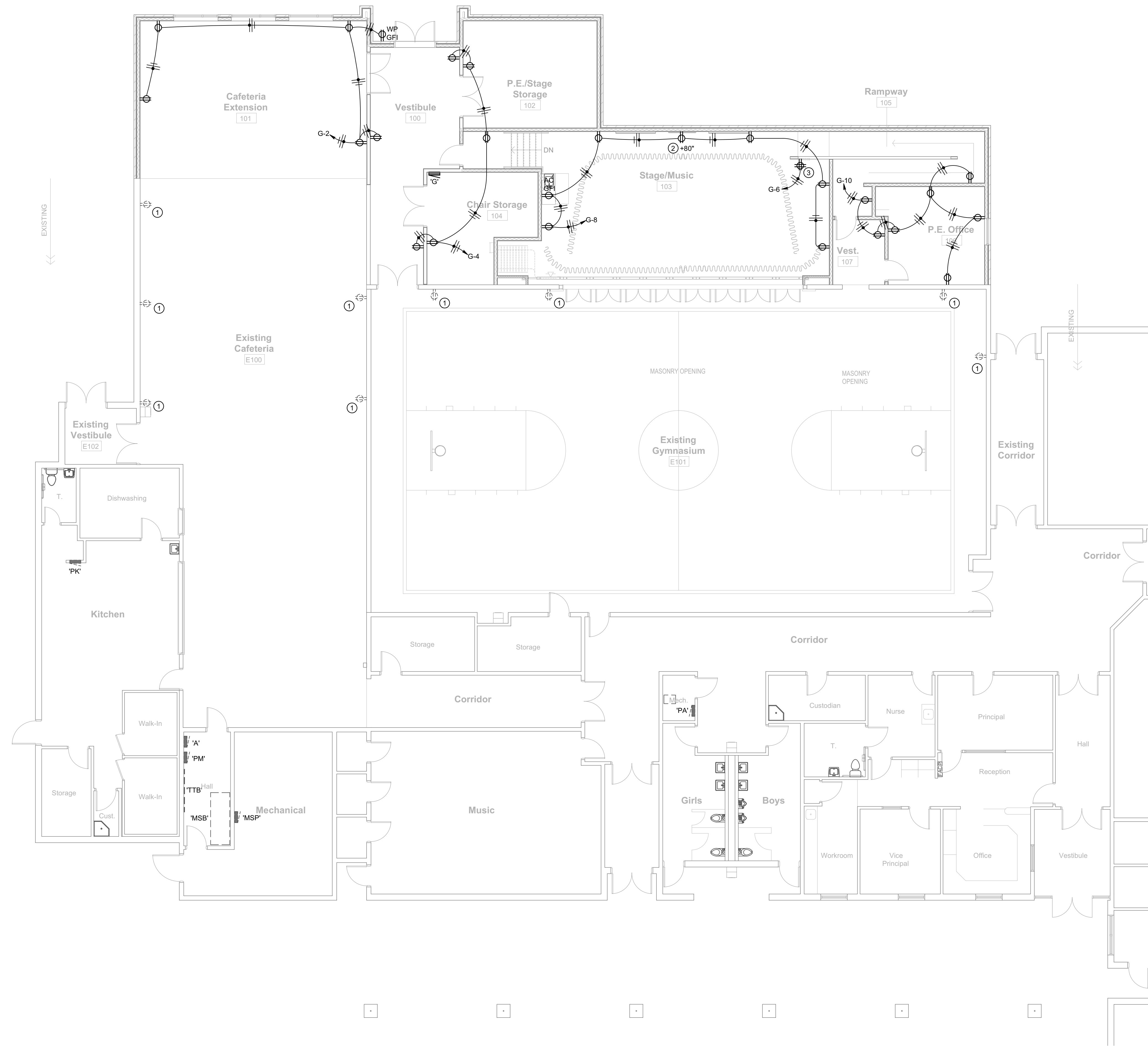
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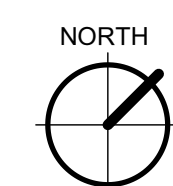
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E2.0MP

MECHANICAL
POWER PLAN





POWER PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. VERIFY ALL MOUNTING HEIGHTS OF ELECTRICAL CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

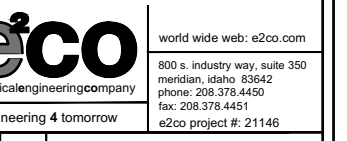
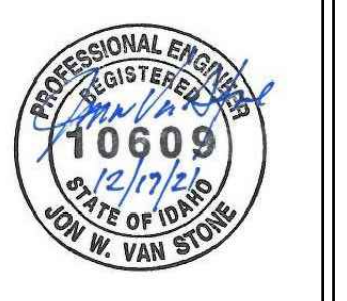
KEYED NOTES:

1. EXISTING RECEPTACLE TO REMAIN, MAINTAIN ALL EXISTING BRANCH CIRCUITING.
2. CONNECTION FOR TELEVISION. COORDINATE LOCATION AND CONNECTION TYPE WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. UTILIZE HUBBELL JUNCTION BOX NO. NSAV62M OR PRE-BID APPROVED EQUAL.
3. RECEPTACLE FOR TEACHERS STATION.

Electrical Plan Review Note:
All 15 and 20 amperes, 125 and 250 volt non-locking type receptacles shall be listed Tamper Resistant in accordance with NEC 406.12 (4).



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Horizon Elementary School
Jerome School District No. 261, Jerome, Idaho

DATE: 12/17/21
LKV PROJECT #: 2122

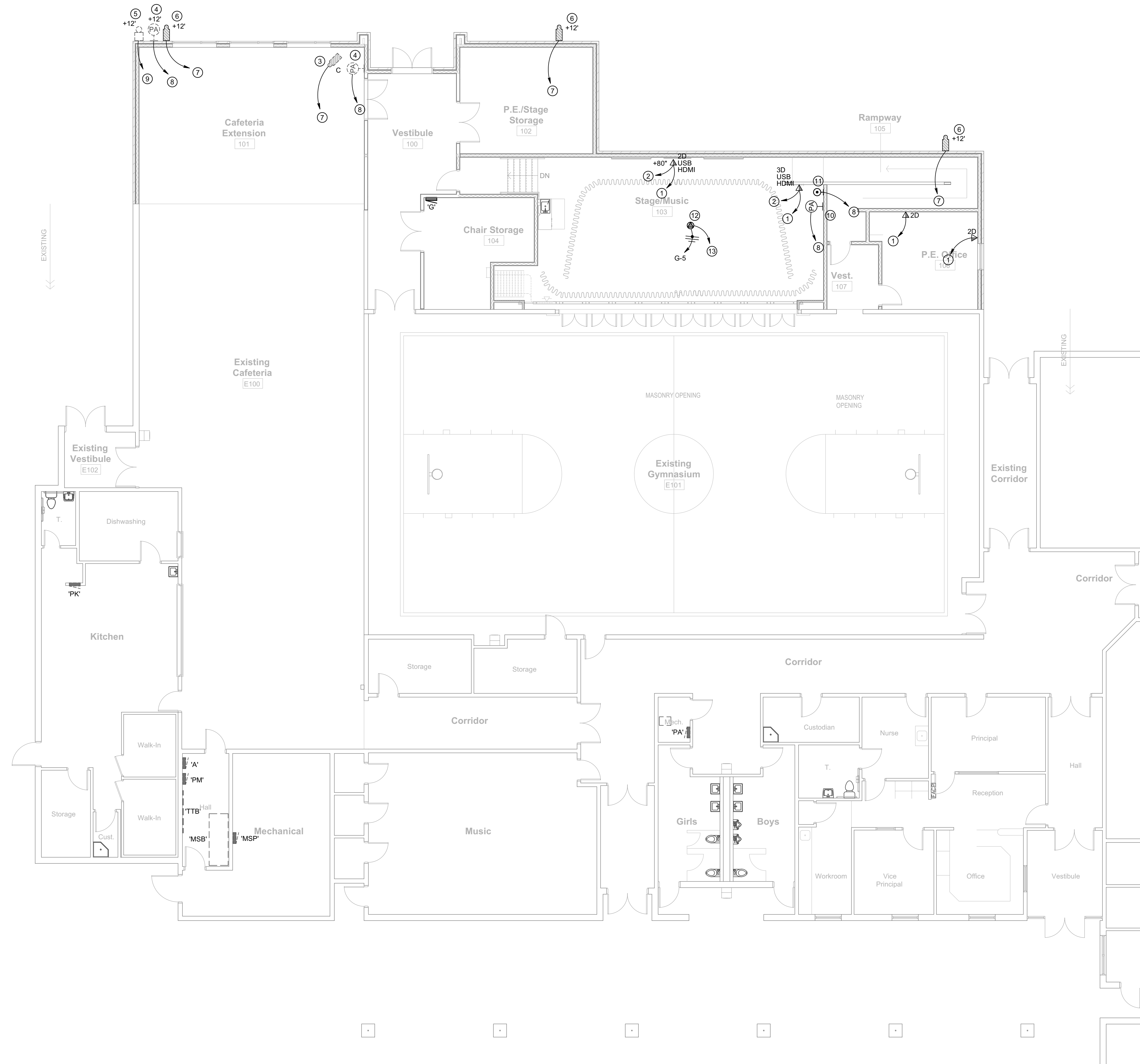
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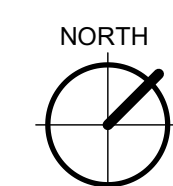
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E2.0P

POWER PLAN





SPECIAL SYSTEM PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

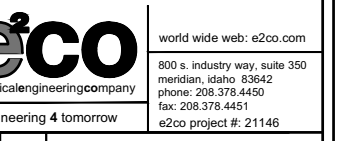
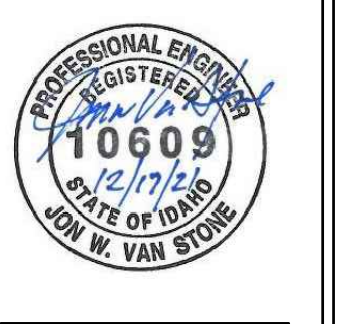
- ALL INFORMATION INDICATED AS FURNISHED AND INSTALLED BY DIVISION 16 BELOW IS REQUIRED TO MEET ALL SPECIFICATION REQUIREMENTS. ADDITIONAL ITEMS MAY BE REQUIRED FOR A COMPLETE INSTALLATION AS PER SPECIFICATIONS AND DRAWINGS.

KEYED NOTES:

- STUB 1" CONDUIT AND CONDUCTORS TO CEILING STRUCTURE ABOVE ACCESSIBLE CEILING. TERMINATE CONDUIT WITH INSULATED THROAT BUSHING. CONTINUE CONDUCTORS TO DATE RACKS IN MEDIA CENTER. SUPPORT CONDUCTORS ABOVE CEILING WITH HOOKS INSTALLED ON 36" CENTERS. SEE SHEET E2.0 FOR LOCATION OF THE DATA RACKS.
- ROUTE CONDUIT AND CONDUCTORS TO LOCATION OF TV FOR (1) CAT 6, (1) USB, (1) HDMI.
- EXISTING CCTV CAMERA IS TO BE RELOCATED TO THIS LOCATION. SEE DEMOLITION PLAN ON SHEET 2.0DA FOR ADDITIONAL INFORMATION.
- EXISTING PUBLIC ADDRESS SPEAKER TO BE RELOCATED TO THIS LOCATION. SEE DEMOLITION PLAN ON SHEET 2.0DA FOR ADDITIONAL INFORMATION.
- EXISTING EXTERIOR CLASSROOM TO BE RELOCATED TO THIS LOCATION. SEE DEMOLITION PLAN ON SHEET 2.0DA FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL NEW JUNCTION BOX RECESSED IN WALL FOR MOUNTING OF CCTV CAMERA. CAMERA TO BE FURNISHED AND INSTALLED BY SCHOOL DISTRICT.
- FURNISH AND INSTALL CAT 6 CABLE FROM CCTV CAMERA LOCATION TO CCTV HEAD END EQUIPMENT LOCATED AT THE DATA RACKS. SEE SHEET E2.0 FOR LOCATION OF DATA RACKS.
- FURNISH AND INSTALL CONDUCTORS TO PA SYSTEM HEAD END EQUIPMENT. SEE SHEET E2.0 FOR LOCATION OF PA SYSTEM HEAD END EQUIPMENT. COORDINATE CONDUCTOR REQUIREMENTS WITH EXISTING SYSTEM.
- FURNISH AND INSTALL CONDUCTORS TO CLASSROOM BELL SYSTEM HEAD END EQUIPMENT. SEE SHEET E2.0 FOR LOCATION OF SYSTEM HEAD END EQUIPMENT. COORDINATE CONDUCTOR REQUIREMENTS WITH EXISTING SYSTEM.
- FURNISH AND INSTALL A NEW WALL MOUNTED PA SPEAKER (RECESSED IN WALL) - MATCHING EXISTING PA SPEAKERS IN SCHOOL. SPEAKER IS TO BE CONNECTED INTO THE EXISTING PA SYSTEM HEAD END EQUIPMENT.
- FURNISH AND INSTALL PUBLIC ADDRESS PUSH TO TALK CONTROL IN VICINITY OF TEACHER STATION FOR PUBLIC ADDRESS COMMUNICATION WITH OFFICE.
- CONNECTION TO TOPCAT IN CEILING CLASS AMPLIFICATION SYSTEM. THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL A TOPCAT BASESTATION CLASSROOM AMPLIFICATION SYSTEM THAT CONSISTS OF THE INTEGRATED FLAT PANEL EXCITER DRIVEN SPEAKER, TONE CONTROL WITH AUDIO INPUT VC, SENSITIVITY ADJUSTMENT, AND SHALL INCLUDE (1) FLEX MIC, AND (1) SHAREMIKE. THE TOP CAT SYSTEM IS TO BE INSTALLED IN THE CENTER OF THE CLASSROOM RECESSED IN GRID.
- FURNISH AND INSTALL CONNECTION TO THE FIRE ALARM SYSTEM FOR MUTING OF THE TOPCAT SYSTEM. THE FIRE ALARM INPUT IS INTERGRAL TO THE TOPCAT SYSTEM.



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Revisions	Description	Date
1		

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DATE: 12/17/21
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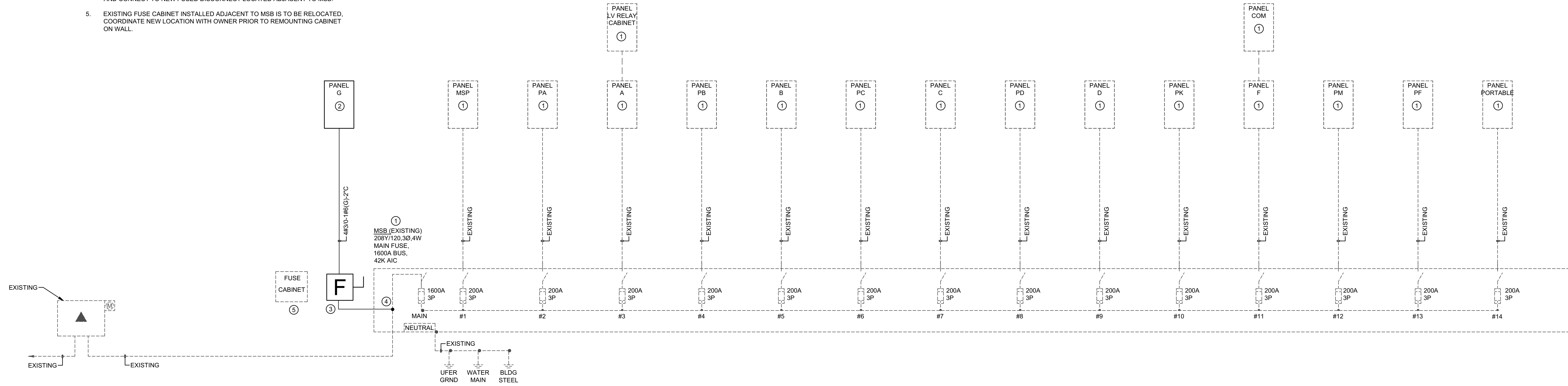
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E2.0S

SPECIAL SYSTEM PLAN

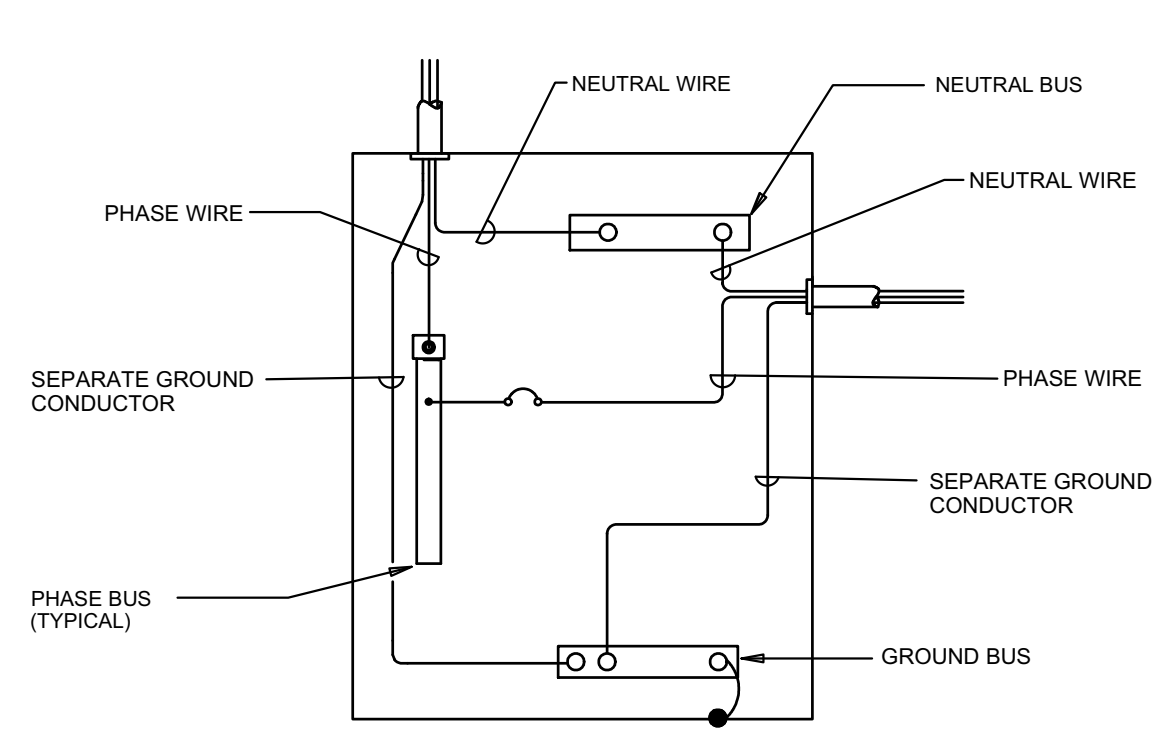


KEYED NOTES:

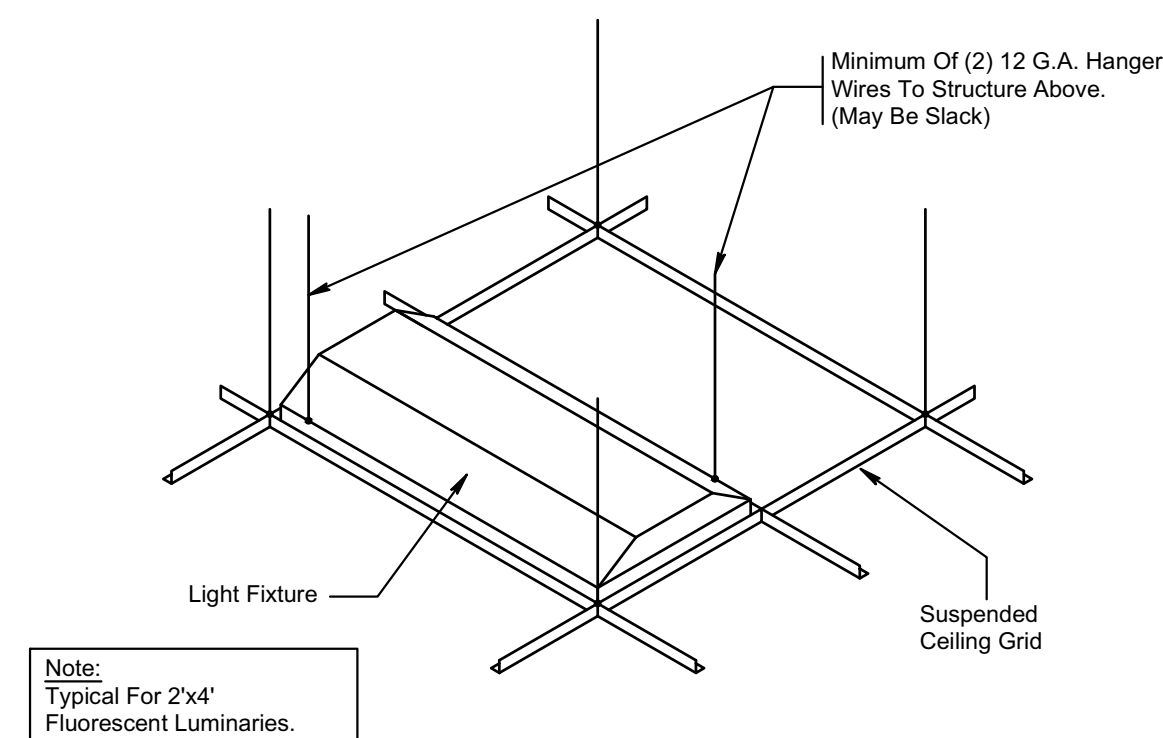
- EXISTING SERVICE ENTRANCE MSB AND PANELS ARE TO REMAIN AND ALL FEEDERS ARE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- NEW PANEL G, SEE PLAN VIEW DRAWINGS FOR LOCATION.
- NEW FUSED DISCONNECT TO BE MOUNTED ON WALL ADJACENT TO MSB. FUSED DISCONNECT TO THE 200A/3P/1 WITH 200A FUSES.
- TAP BUS IN MSB AT LOCATION THAT IS AFTER THE MAIN FUSED DISCONNECT AND CONNECT TO NEW FUSED DISCONNECT LOCATED ADJACENT TO MSB.
- EXISTING FUSE CABINET INSTALLED ADJACENT TO MSB IS TO BE RELOCATED, COORDINATE NEW LOCATION WITH OWNER PRIOR TO REMOUNTING CABINET ON WALL.



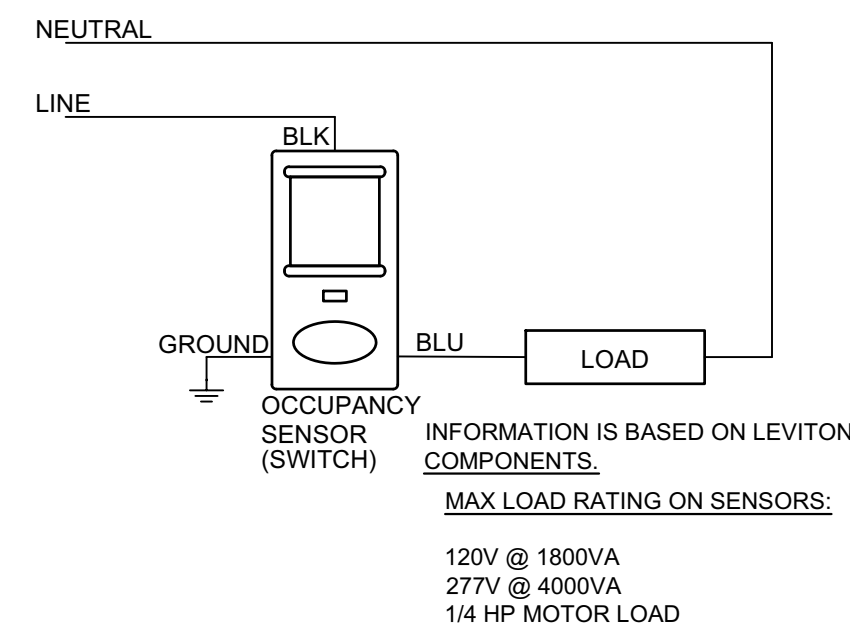
ONE LINE DIAGRAM
SCALE: NO SCALE



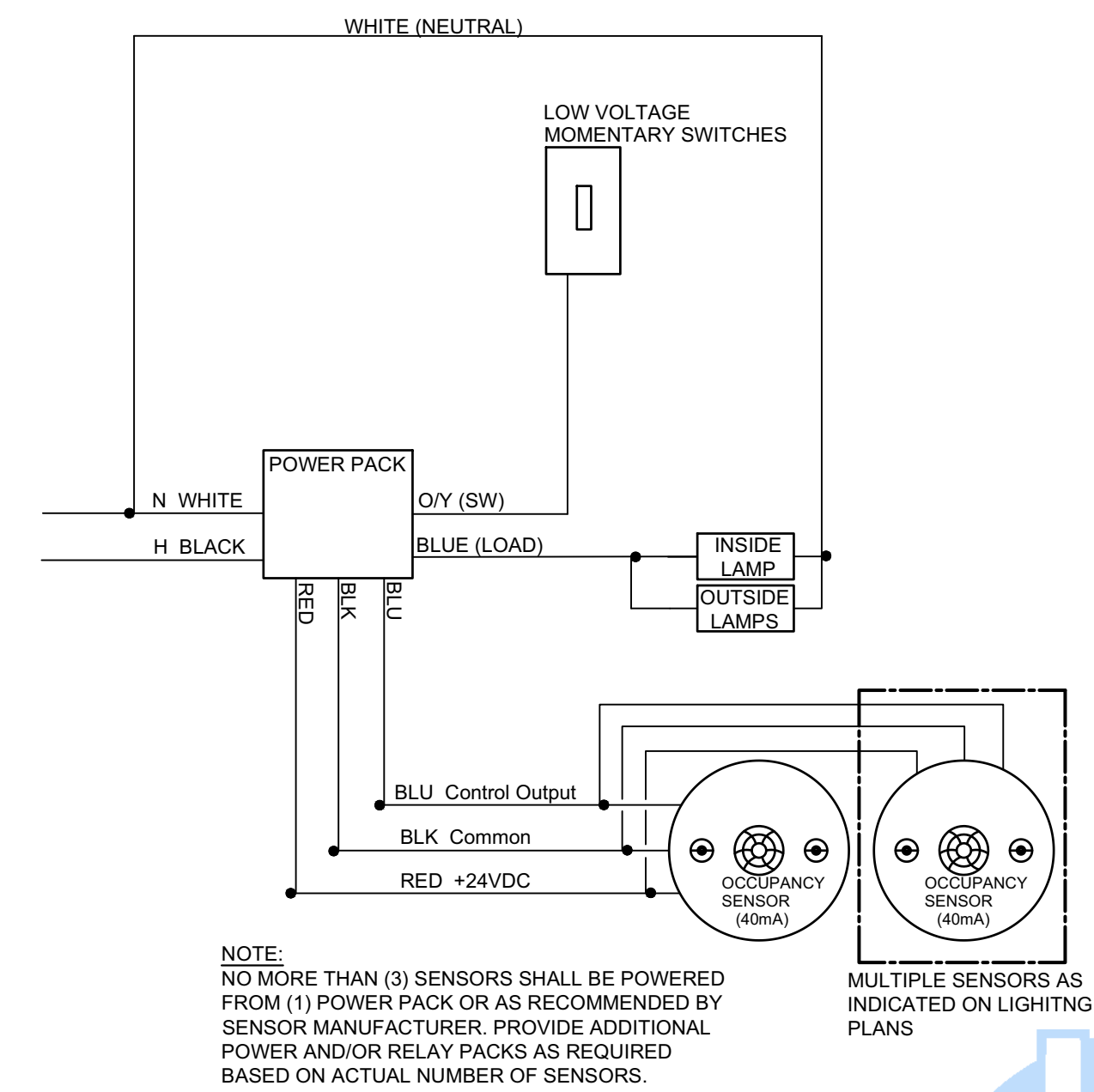
TYPICAL ELECTRICAL PANEL DETAIL



LIGHT SUPPORT DETAIL



OCCUPANCY SENSOR DETAIL



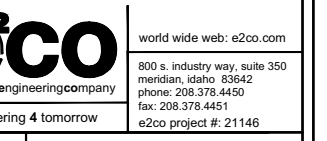
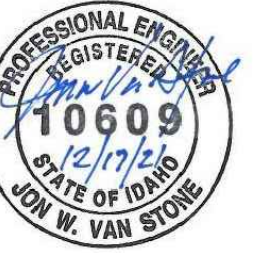
LOW VOLTAGE VACANCY SENSING DETAIL

REVIEWED FOR CODE COMPLIANCE

SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION



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ONE LINE DIAGRAM
AND ELECTRICAL
DETAILS

ELECTRICAL LOAD SUMMARY - MSB (EXISTING)
HORIZON ELEMENTARY SCHOOL

PANEL AND/OR EQUIPMENT	VOLTAGE	ELECTRICAL LOAD (KVA)								CONNECTED LOAD		DEMAND LOAD	
		LIGHTING	REC.	MOTORS	KITCHEN	HVAC	NON-CONT.	ELEC. HEAT	CONT.	KVA	AMPS	KVA	AMPS
PANEL G (NEW)	208Y/120	2.11	5.04	-	-	-	4.30	-	-	49.7	138	49.7	138
PANEL MSP (EXISTING)	208Y/120	-	-	47.10	-	-	-	-	-	47.1	0	47.1	131
PANEL A (EXISTING)	208Y/120	15.50	7.60	-	-	-	2.70	-	-	25.8	72	25.8	72
PANEL B (EXISTING)	208Y/120	23.30	16.70	-	-	-	-	-	-	40.0	111	40.0	111
PANEL C (EXISTING)	208Y/120	23.10	13.30	-	-	-	-	-	-	36.4	101	36.4	101
PANEL D (EXISTING)	208Y/120	18.40	13.50	-	-	-	-	-	-	31.9	89	31.9	89
PANEL F (EXISTING)	208Y/120	16.60	10.60	-	-	-	-	-	-	27.2	75	27.2	75
PANEL PA (EXISTING)	208Y/120	-	-	-	-	30.80	-	-	-	30.8	85	30.8	85
PANEL PB (EXISTING)	208Y/120	-	-	-	-	41.20	-	-	-	41.2	114	41.2	114
PANEL PC (EXISTING)	208Y/120	-	-	-	-	34.00	-	-	-	34.0	94	34.0	94
PANEL PD (EXISTING)	208Y/120	-	-	-	-	35.40	-	-	-	35.4	98	35.4	98
PANEL PF (EXISTING)	208Y/120	-	-	-	-	33.90	-	-	-	33.9	94	33.9	94
PANEL PK (EXISTING)	208Y/120	-	-	-	137.00	-	-	-	-	137.0	380	89.1	247
PANEL PM (EXISTING)	208Y/120	-	-	-	-	33.30	-	-	-	33.3	92	33.3	92
PANEL COM (EXISTING)	208Y/120	-	3.20	-	-	-	-	-	-	3.2	9	3.2	9
PANEL - PORTABLE	208Y/120	3.00	2.30	-	-	5.50	-	-	-	10.8	30	10.8	30
TOTAL (NEW)		102	72	47	137	252	7	0	0	618	1715	564	1566

MAIN SERVICE DISCONNECT/EQUIPMENT RATING: 1600 AMPS

Fault Current at Service Equipment

**MAXIMUM AVAILABLE FAULT CURRENT TO BE FIELD MARKED ON SERVICE EQUIPMENT PER NEC 110.24(A).

AVAILABLE FAULT CURRENT AT TERMINALS OF MAIN DISCONNECT =
MAIN SERVICE DISCONNECT AIC RATING:

EXISTING 50 K amperes

NEC DEMAND FACTORS

LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)	REMARKS	UNITS
LIGHTING	102,006	125%	127,508		
RECEPTACLES	72,240	-	41,120	FIRST 10,000VA AT 100% + REMAINDER OVER 10,000VA AT 50%	
MOTORS	47,100	-	47,100	125% OF LARGEST MOTOR + 100% OF ALL OTHER MOTORS	
KITCHEN EQUIPMENT	137,000	65%	89,050	1-2 UNITS=100%, 3 UNITS=90%, 4 UNITS=80%, 5 UNITS=70%, >=6 UNITS=65%	>6 UNITS
HVAC EQUIPMENT	252,380	100%	252,380		
NON-CONTINUOUS LOADS	7,000	100%	7,000		
ELECTRIC HEAT	0	125%	0		
CONTINUOUS LOADS	0	125%	0		
TOTALS	617,726	91%	564,158	VA	

SERIES RATED EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C. , AND SERIES RATED COMBINATIONS SHALL BE LISTED BY UNDERWRITERS LABORATORIES

LOAD TYPE	NOTES	CKT NO.	DESCRIPTION	AMPS/POLES	LOAD (VA)	LOAD (VA)	WIRE SIZE	PHASE (VA)	WIRE SIZE	LOAD (VA)	LOAD (VA)	AMPS/POLES	DESCRIPTION	CKT NO.	NOTES	LOAD TYPE
1		1	LIGHTING	20 1	1131	94	12	2391	12	105	1280	20 1	RECEPTACLES - CAFETERIA ADDITION	2		2
1		3	THEATRICAL LIGHTING STAGE (TRACK)	20 1	975	8.1	12	1875	12	7.5	900	20 1	RECEPTACLES - HALLWAY/STORAGE ROOMS	4		2
6		5	TOPCAT IN CEILING SOUND SYSTEM	20 1	100	0.8	12	1180	12	9.0	1080	20 1	RECEPTACLES - STAGE	6		2
7		7	SPARE	20 1	0.0	0.0	12	360	12	3.0	360	20 1	RECEPTACLES - TEACHERS STATION	8		2
9		9	SPARE	20 1	0.0	0.0	12	1080	12	9.0	1080	20 1	RECEPTACLES - PE OFFICE AND HALLWAY	10		2
11		11	SPARE	20 1	0.0	0.0	12	0	12	0.0	0.0	20 1	SPARE	12		
13		13	SPARE	20 1	0.0	0.0	12	0	12	0.0	0.0	20 1	SPARE	14		
15		15	SPARE	20 1	0.0	0.0	12	0	12	0.0	0.0	20 1	SPARE	16		
17		17	SPARE	20 1	0.0	0.0	12	360	12	3.0	360	20 1	ROOF RECEPTACLES	18		2
19		19	SPARE	20 1	0.0	0.0	12	3960	6	33.0	3960	60 3	RTU-1	20		5
21		21	SPARE	20 1	0.0	0.0	12	3960	6	33.0	3960	60 3	***	22		5
23		23	SPARE	20 1	0.0	0.0	12	3960	6	33.0	3960	60 3	***	24		5
25		25	SPARE	20 1	0.0	0.0	12	2000	10	16.7	2000	30 3	RTU-2 (ECONOMIZER)	26		5
27		27	SPARE	20 1	0.0	0.0	12	2000	10	16.7	2000	30 3	***	28		5
29		29	SPARE	20 1	0.0	0.0	12	2000	10	16.7	2000	30 3	***	30		5
31		31	SPARE	20 1	0.0	0.0	12	4800	6	40.0	4800	60 3	RTU-2	32		5
33		33	SPARE	20 1	0.0	0.0	12	4800	6	40.0	4800	60 3	***	34		5
35		35	SPARE	20 1	0.0	0.0	12	4800	6	40.0	4800	60 3	***	36		5
37		37	SPARE	20 1	0.0	0.0	12	2000	10	16.7	2000	30 3	RTU-2 (ECONOMIZER)	38		5
6 3		39	WATER HEATER	30 2	2100	17.5	10	4100	10	16.7	2000	30 3	***	40		5
6 3		41	***	30 2	2100	17.5	10	4100	10	16.7	2000	30 3	***	42		5

PHASE	LOADING	15511	17815	16400	VA
		129	148	137	AMPS
% UNBALANCE		6.4%	7.5%	1.1%	

LOAD #	LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
1	LIGHTING	2,106	1.25	2,633
2	RECEPTACLE	5,040	*	5,040
3	MOTOR	0	**	0
4	KITCHEN EQUIP.	0	0.00	0
5	HVAC	38,280	1.00	38,280
6	NON-CONTINUOUS	4,300	1.00	4,300
7	ELECTRIC HEAT	0	1.25	0
8	CONTINUOUS	0	1.25	0
TOTAL:		49,726	1.01	50,253
SIZE OF LARGEST MOTOR:		0.0	KVA	

PANEL ELECTRICAL LOAD DATA	
TOTAL CONNECTED LOAD:	49.7 KVA
	138 AMPS
TOTAL DEMAND LOAD:	50.3 KVA
	139 AMPS
PANEL OCPD RATING	
STANDARD RATED	

PANEL NOTES	
1.	PROVIDE CLASS 'A' GFCI TYPE BREAKER
2.	BREAKER TO BE RED HANDLED
3.	INSTALL LOCK ON DEVICE ON BREAKER. (SET SCREW, NON-PADLOCK TYPE)
4.	ROUTE CIRCUIT TO LTG. RELAY/CONTACTOR FOR CONTROL

DEMAND FACTOR NOTES	
*	FIRST 10,000VA AT 100% REMAINDER OVER 10,000VA AT 50%
**	125% OF LARGEST + 100% OF REMAINING MOTORS



LIGHTING FIXTURE SCHEDULE - HORIZON ELEMENTARY SCHOOL

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	LAMPS WITH FIXTURE	VOLTAGE	REMARKS
EX1	EXIT LIGHT, LED, RED STENCIL THERMOPLASTIC HOUSING, SINGLE NI-CAD BATTERY WITH BUG EYE EGRESS LIGHTS	LITHONIA NO.	ECG-LED-M6	ABOVE DOOR		120/277	1,2
GL1	LED GRID MOUNTED - 2X4' RECESSED IN GRID	LITHONIA NO.	EPANL 2X4 - 4000LM - 80 CRI-35K-MIN10-ZT-MVOLT	GRID MOUNTED	(1) 38.9 W LED 35 K 4351 LUMENS	120	1
GL1E	WITH GRID MOUNTING KIT WITH EMERGENCY BATTERY PACK LED GRID MOUNTED - 2X4' RECESSED IN GRID	LITHONIA NO.	EPANL 2X4 - 4000LM - 80 CRI-35K-MIN10-ZT-MVOLT-E10WCP	GRID MOUNTED	(1) 38.9 W LED 35 K 4351 LUMENS	120	1
TL1	8' TRACK WITH (5) 65W LED HEADS 55 DEGREE LENS - BLACK PROVIDE WITH TRACK CONNECTORS AND END CAPS ALL ACCESSORIES FOR COMPLETE INSTALLATION	TIMES SQUARE	TRACK: G SERIES 2 CIRCUIT TRACK HEAD: CR80-92-4000-W-120-55-0-10V-BD9	CEILING MOUNT	(1) 1920W CURRENT LIMITER	120V	1
WL1	EXTERIOR WALL LED	HOLOPHANE NO	W4GLE4D-20C1000-30K-T3M-120-SPD-AO-BZSDP	EXTERIOR WALL +15'	(1) 57 W LED 40K 6507 LUMENS	120V	1
WL1E	EXTERIOR WALL LED WITH EMERGENCY BATTERY PACK (COLD WEATHER)	HOLOPHANE NO	W4GLE4D-20C1000-30K-T3M-120-SPD-AO-ELCW-BZSDP	EXTERIOR WALL ABOVE DOOR	(1) 57 W LED 40K 6507 LUMENS	120V	1,2

- REMARKS
- OR PRE-BID APPROVED EQUAL
 - PROVIDE WITH BODINE EMERGENCY DRIVER SUITABLE FOR LAMP TYPE AND HALF THE LAMP LUMEN OUTPUT, PROVIDE WITH SELF TEST LIGHT AND PUSHBUTTON.
 - SEE LIGHTING DRAWINGS AND LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION INCLUDING NUMBER AND TYPE OF RELAYS.
 - THE ELECTRICAL CONTRACTOR SHALL INCLUDE FACTORY START-UP AND PROGRAMMING OF THE LIGHTING CONTROL SYSTEM AS WELL AS COMMISSIONING
 - WHEN INSTALLED IN AN INSULATED CEILING, FIXTURE TO BE INSTALLED WITH FIRE RATED OR IC RATED ENCLOSURE OR HAVE SHEET ROCK ENCLOSURE BUILT PER DETAIL.

NOTE TO BIDDERS:

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED VIA ADDENDUM. SUBMITTED ITEMS NOT APPROVED VIA ADDENDUM WILL BE REJECTED
- PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED
- WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPERATELY WHEN SUBMITTING PRICING TO THE VARIOUS DISTRIBUTORS AND/OR CONTRACTORS AS REQUESTED.

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: HORIZON ELEMENTARY SCHOOL ADDITION
Project Type: Addition

Construction Site: 934 10TH AVE EAST JEROME, ID
Owner/Agent: JEROME SCHOOL DISTRICT
Designer/Contractor: JON VAN STONE E2CO 800 S INDUSTRY WAY SUITE 350 MERIDIAN, ID 83642 208-378-4450 JVANSTONE@E2CO.COM

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-School/University	3700	0.81	2997
Total Allowed Watts = 2997			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-School/University LED 1: GL1, GL1E: GRID LED: LED Panel 36W: Track lighting 1: Wattage based on current limiting device capacity	1 0	45 0	39 1000	1750 1000
Total Proposed Watts = 2750				

Interior Lighting PASSES: Design 8% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title: JON VAN STONE Signature: Date: 12/17/21

Project Title: HORIZON ELEMENTARY SCHOOL ADDITION Report date: 12/17/21
Data filename: S:\project directory\Current projects\21146 Horizon Elementary Addition (Jerome)\docs\HORIZON ELEMENTARY.cck Page 1 of 7

COMcheck Software Version 4.1.5.1
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: HORIZON ELEMENTARY SCHOOL ADDITION
Project Type: Addition
Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 934 10TH AVE EAST JEROME, ID
Owner/Agent: JEROME SCHOOL DISTRICT
Designer/Contractor: JON VAN STONE E2CO 800 S INDUSTRY WAY SUITE 350 MERIDIAN, ID 83642 208-378-4450 JVANSTONE@E2CO.COM

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage (B X C)	E Allowed Watts (B X C)
DOORS (Pedestrian and vehicular entrances and exits)	12 ft of door	14	Yes	168
Total Tradable Watts (a) =				168
Total Allowed Watts =				168
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
DOORS (Pedestrian and vehicular entrances and exits 12 ft of door width): Tradable Wattage LED 1: WL1, WL1E: LED WALL PACK: LED Panel 36W:	1	4	57	228
Total Tradable Proposed Watts = 228				

Exterior Lighting PASSES: Design 60% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

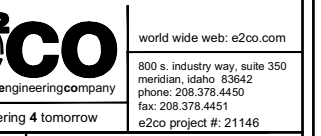
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ELECTRICAL SCHEDULES

