

TWIN FALLS FIRE DEPARTMENT JIM BIERU REGIONAL FIRE TRAINING FACILITY

430 VICTORY AVE, TWIN FALLS, ID 83301

02/04/2022

PIVOT NORTH ARCHITECTURE PROJECT #: 19-029

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Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERU REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE, TWIN FALLS, ID 83301

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COVER SHEET

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APPLICABLE CODES

ACCESSIBILITY CODE	2009 ICC/ANSI A117.1 / IBC CODE
INTERNATIONAL BUILDING CODE	2018 EDITION WITH IDAHO AMENDMENTS
INTERNATIONAL ENERGY CONSERVATION CODE	2018 EDITION
INTERNATIONAL FIRE CODE	2018 EDITION
INTERNATIONAL MECHANICAL CODE	2018 EDITION WITH IDAHO AMENDMENTS
INTERNATIONAL PLUMBING CODE	2017 IDAHO STATE PLUMBING CODE
NATIONAL ELECTRICAL CODE	2017 EDITION
INTERNATIONAL FUEL GAS CODE	2018 EDITION WITH IDAHO AMENDMENTS
ZONING ORDINANCE:	CITY OF TWIN FALLS Zoning Ordinance

OTHER CRITERIA

DEFERRED SUBMITTALS

VICINITY MAP:

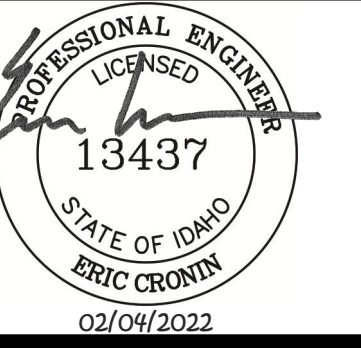
SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Twin Falls Fire Department Jim Bieri Regional Fire Training Facility Site Only Permit - Construction Drawings



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SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE
TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301



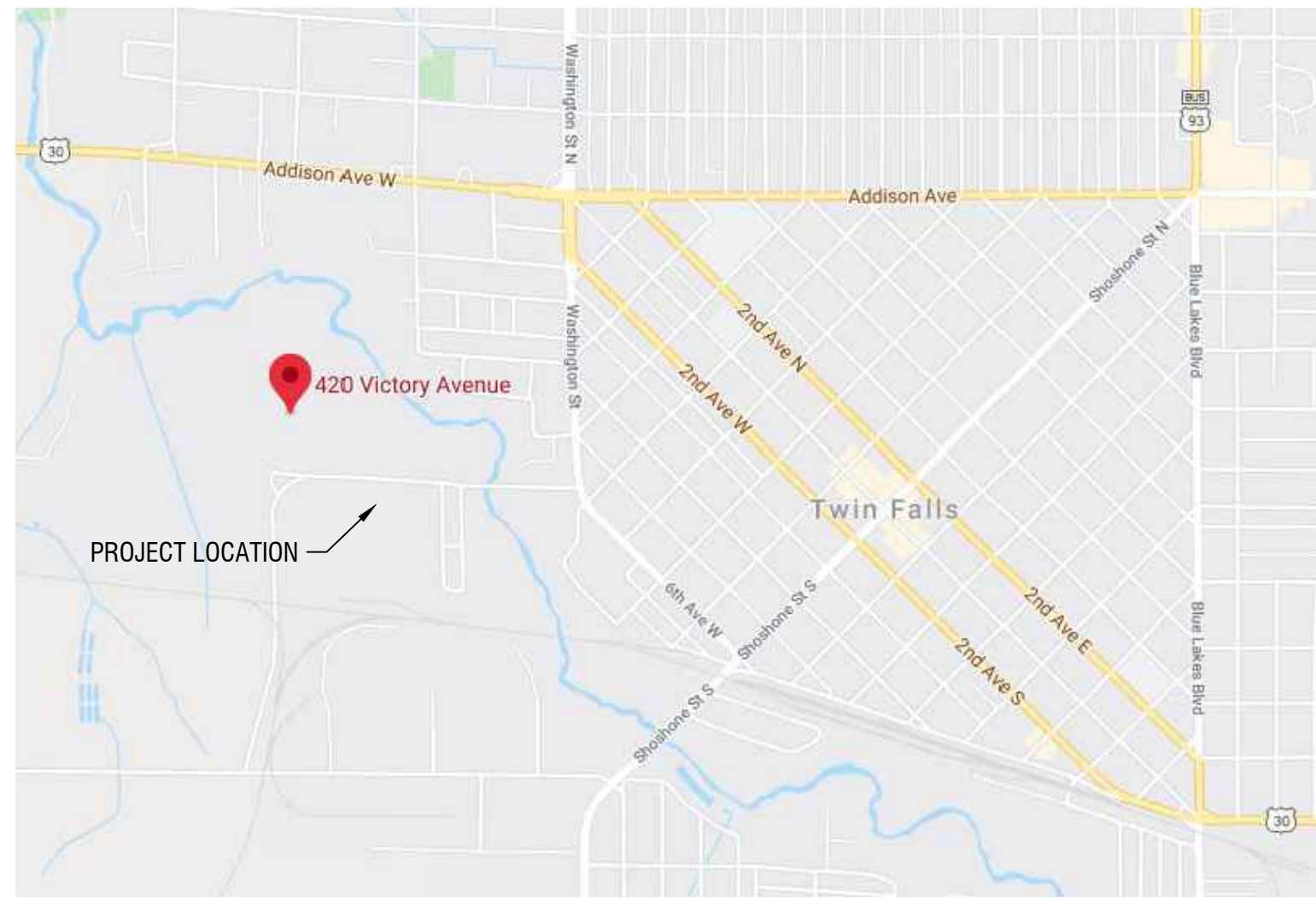
Revisions:

Project No: 120104
Date: 02.04.2022
Checked By: ECBS
Drawn By: CRUL
Sheet Name:

Cover & Notes

Sheet No:

C0.00



Vicinity Map
Scale: -NTS-

Engineers General Construction Notes:

- ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 VERSION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW), THE CITY OF TWIN FALLS REVISIONS TO THE ISPCW (AND ANY ADDENDUMS), AND PROJECT SPECIFICATIONS. THE MORE STRINGENT OF ANY OF THESE STANDARDS SHALL BE THE CONTROLLING STANDARDS OR SPECIFICATIONS. CITY REVISIONS CAN BE FOUND ON THE CITY OF TWIN FALLS ENGINEERING DEPARTMENT WEBSITE.
- THE CONTRACTOR SHALL HAVE A COPY OF THE CURRENT VERSION OF THE ISPCW AND CITY OF TWIN FALLS REVISIONS TO THE ISPCW ON SITE AT ALL TIMES DURING CONSTRUCTION (AVAILABLE ON THE WEBSITE). FAILURE TO HAVE A CURRENT COPY OF THE STANDARD SPECIFICATIONS ON SITE COULD BE GROUNDS FOR A STOP WORK ORDER UNTIL THE SITUATION IS RESOLVED.
- THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS/PERMITS/LICENSE AGREEMENTS, AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS PART AND/OR HIS NEGLIGENCE AND/OR FAILURE TO ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED. THE DIRECT COST OF PERMITS WILL BE REIMBURSED BY THE OWNER.
- A PRECONSTRUCTION CONFERENCE SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF WORK. THE GENERAL CONTRACTOR SHALL COORDINATE THE PRECONSTRUCTION CONFERENCE. THE DESIGN ENGINEER, ALL CONTRACTORS, SUBCONTRACTORS AND/OR UTILITY CONTRACTORS SHALL BE PRESENT. PROVIDE 48 HOURS NOTICE PRIOR TO THE MEETING.
- CONTRACTORS SHALL NOTIFY THE APPROPRIATE AGENCY WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOUR PRIOR NOTICE.
- WORK SUBJECT TO APPROVAL BY ANY GOVERNMENTAL AGENCY MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING.
- ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE.
- CONTRACTORS SHALL PERFORM SITE CLEARING, GRUBBING AND BACKFILL EXERCISES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTORS SHALL COORDINATE AND ACCOMMODATE VISUAL INSPECTIONS, MATERIALS AND COMPACTION TESTING WITH THE GEOTECHNICAL ENGINEER AS OUTLINE IN SAID SPECIFICATIONS. COMPACTION TEST REPORTS SHALL BE PROVIDED TO THE DESIGN ENGINEER FOR ALL WORK.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE SUBGRADE IN SUCH A CONDITION THAT IT WILL BE WELL-DRAINED AT ALL TIMES. DRAINAGE DITCHES SHALL BE CONSTRUCTED AS NECESSARY TO AVOID DAMAGE TO THE CONSTRUCTION SITE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL TIE IN POINTS PRIOR TO CONSTRUCTION AND SHALL CONTACT THE DESIGN ENGINEER WITH ANY DISCREPANCIES.
- THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
- CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES.
- ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. OWNER/DEVELOPER/CONTRACTOR IS REQUIRED TO CALL 811 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION, TO DETERMINE LOCATION OF UNDERGROUND UTILITIES.
- THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF STRUCTURES. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE. REFER TO GEOTECHNICAL ENGINEERING REPORT FOR DETAILED EARTHWORK REQUIREMENTS.
- ALL ABANDONED BUILDINGS, TEST PITS OR WATERWAYS SHALL BE RE-EXCAVATED TO NATIVE SOIL AND BACKFILLED IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00.
- ALL EXISTING CONDITIONS AND STRUCTURES, NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAINED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREETS, SIDEWALKS, OR EXISTING STRUCTURES DURING THE CONSTRUCTION OF THIS PROJECT, AND SHALL REPAIR SUCH DAMAGE TO THE SATISFACTION OF THE GOVERNING AGENCY, AT NO EXTRA COST TO THE OWNER.
- CERTAIN CONTROL POINTS WILL BE SET BY THE ENGINEER, OR ITS REPRESENTATIVE, WHICH ARE CRITICAL TO THE CONSTRUCTION STAKING OF THE PROJECT. THESE POINTS WILL BE DESIGNATED AT THE TIME THEY ARE SET AND THE CONTRACTOR SO NOTIFIED. DESTRUCTION OF THESE POINTS BY THE CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE GROUNDS FOR CHARGING THE CONTRACTOR FOR REESTABLISHING SAID POINTS.
- ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE BACK CHARGED TO THE CONTRACTOR BY THE OWNER.
- ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTORS ACCOUNT. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.
- REFER TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED SPECIFICALLY FOR THIS PROJECT. REFERENCE MTI REPORT FILE NO. T200068g DATED JULY 28, 2020 AND ANY ASSOCIATED ADDENDUMS FOR SITE DEVELOPMENT REQUIREMENTS.
- PROPERTY PINS AND MONUMENTS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE RESET BY A LICENSED SURVEYOR.
- THE CONTRACTOR SHALL FILE AND SUBMIT A NOTICE OF INTENT (NOI) ALONG WITH A STORM WATER POLLUTION PREVENTION PLAN TO MEET THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) FOR CONSTRUCTION ACTIVITIES FOR THIS PROJECT.

Domestic Water Notes:

- THE WATER SYSTEM SHALL BE CONSTRUCTED TO CONFORM WITH THE MOST CURRENT STANDARDS SET FORTH IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS" (RDPWS), THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW) AND THE STANDARDS AND SPECIFICATIONS OF THE CITY OF TWIN FALLS.
- FIRE HYDRANTS SHALL CONFORM TO THE CITY OF TWIN FALLS STANDARD DETAIL F-1A AND TECHNICAL SPECIFICATION 410.410.02(1)(B)1.
- FIRE HYDRANTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE CITY OF TWIN FALLS SPECIFICATIONS AND STANDARDS.
- ALL VALVES SHALL BE RESILIENT SEATED GATE VALVES. PER CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS AND SHALL CONFORM TO ANSE/AWWA C-509 SPECIFICATIONS AND SHALL HAVE A 200-PSI WORKING PRESSURE RATING. ALL VALVES SHALL BE ANCHORED.
- FLANGED OR MECHANICAL-JOINT GATE VALVES SHALL BE LOCATED IN THE STREET. ALL GATE VALVES SHALL BE SET AS CLOSE (FLANGE CONNECTED) AS POSSIBLE TO MAIN LINE FITTINGS (EXCEPT FOR FIRE HYDRANTS).
- ALL UNDERGROUND UTILITIES (GAS, TELEPHONE, POWER, CABLE TV, ETC.) SHALL HAVE A MINIMUM OF 3-FT OF HORIZONTAL SEPARATION AND 1-FT OF VERTICAL SEPARATION FROM WATER MAIN LINES.
- ALL WATER MAINS SHALL BE LEAK-TESTED, FLUSHED AND SANITIZED PER CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS BY THE CONTRACTOR AND APPROVED BY THE CITY OF TWIN FALLS PRIOR TO HYDRAULICALLY CONNECTING TO THE WATER SYSTEM.
- ALL WATER MAINS SHALL HAVE A MINIMUM DEPTH OF COVER OF 48-INCHES FROM FINAL FINISHED GRADE.
- NO 12 DIRECT BURIAL WIRE SHALL BE PLACED ALONG THE NORTH AND EAST SIDE OF WATER MAINS AND SERVICE LINES. WIRE SHALL BE INSTALLED IN THE GATE VALVE RISER SO IT IS ACCESSIBLE FROM ABOVE BUT DOES NOT INTERFERE WITH VALVE OPERATION. A METALLIC TAPE MARKED "WATER LINE BELOW" SHALL BE INSTALLED 1-FT ABOVE ALL WATER LINES IN THE PUBLIC RIGHT-OF-WAY.
- THE HORIZONTAL SEPARATION OF THE POTABLE WATER MAINS AND NON-POTABLE WATER MAINS SHALL BE A MINIMUM OF TEN (10) FEET. THE HORIZONTAL SEPARATION OF POTABLE SERVICES AND NON-POTABLE MAINS AND/OR NON-POTABLE WATER SERVICES SHALL BE A MINIMUM OF SIX (6) FEET.
- WHERE IT IS NECESSARY FOR NON-POTABLE (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) LINES AND WATER LINES (I.E. SERVICES OR MAINS) TO CROSS EACH OTHER, AND THE NON-POTABLE LINE IS LESS THAN 18-IN ABOVE OR BELOW THE WATER LINE, THE NON-POTABLE LINE SHALL BE CONSTRUCTED OF MATERIALS CONFORMING TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FT ON BOTH SIDES OF THE WATER LINE IN ACCORDANCE WITH SECTION 550.06 OF IDAPA 58.01.08 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS. ONE FULL LENGTH OF BOTH WATER AND NON-POTABLE LINES SHALL BE CENTERED AT THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE.
- PIPE TRENCH SHALL CONFORM TO THE LATEST TECHNICAL SPECIFICATIONS OF TWIN FALLS. BEDDING AND BACKFILL SHALL BE CONSTRUCTED PER SECTION 409.
- CONTRACTOR SHALL FIELD VERIFY ALL VALVE BOX LID ELEVATIONS TO ASSURE THE LID ELEVATIONS MATCH FINAL STREET GRADE, AND THAT ALL METER LID ELEVATIONS MATCH AN EXTENSION OF THE SIDEWALK GRADE. ALL VALVE BOX LIDS SHALL BE FLUSH WITH THE FINAL FINISHED GRADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONTINUOUS WATER SERVICE TO ALL EXISTING WATER USERS AFFECTED BY CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, MARKING AND PROTECTING ALL EXISTING SERVICE CONNECTIONS.
- ALL TRENCH BACKFILL COMPACTION TESTS IN THE PUBLIC RIGHT-OF-WAY ARE TO BE WITNESSED AND APPROVED BY THE OWNER'S SOIL TESTING REPRESENTATIVE.
- THE CONTRACTOR SHALL PERFORM PRESSURE TESTS OF ALL WATER MAINS IN ACCORDANCE WITH SECTION 410 OF THE CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS AFTER BACKFILLING AND COMPACTING OF THE TRENCHES AND SHALL FURNISH ALL EQUIPMENT AND PERSONNEL REQUIRED TO PERFORM THESE TESTS. ALL PRESSURE TESTS ARE TO BE WITNESSED AND APPROVED BY THE PROJECT ENGINEER OR INSPECTOR.
- PRIOR TO FINAL ACCEPTANCE AND USE OF THE WATER PIPE LINE, IT SHALL BE DISINFECTED ACCORDING TO SECTION 410 OF THE CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS AND THEN FLUSHED. THE CONTRACTOR MAY TEST THE WATER LINE AFTER BACKFILLING AND SETTLING OF THE TRENCHES FOR HIS OWN BENEFIT PRIOR TO THE INSTALLATION OF THE OTHER UTILITIES TO ENSURE THE INTEGRITY OF THE INSTALLED LINE. ACCEPTANCE TESTING WILL BE DONE AFTER UTILITIES HAVE BEEN INSTALLED BUT PRIOR TO FINAL PAVING. THE DISINFECTION AND FLUSHING PROCEDURE SHALL BE TESTED TO DETERMINE IF THE APPROPRIATE MINIMUM CHLORINE RESIDUALS HAVE BEEN EXCEEDED. THE CONTRACTOR AND THE CITY OF TWIN FALLS SHALL CONDUCT COLIFORM BACTERIA TESTING.
- THRUST BLOCKS SHALL BE INSTALLED PER CITY OF TWIN FALLS STANDARD DETAIL T-2. THE THRUST BLOCKS SHALL BE PLACED IN THE PRESENCE OF THE PROJECT ENGINEER.
- FINAL APPROVAL AND ACCEPTANCE OF ALL WATER LINE CONSTRUCTION WILL BE BY THE CITY OF TWIN FALLS ENGINEER.
- ALL WATER LINES SHALL BE INSPECTED BY THE PROJECT ENGINEER OR INSPECTOR AND APPROVED BY THE CITY OF TWIN FALLS ENGINEER AT THE OWNER'S EXPENSE.

Sanitary Sewer Notes:

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST SEWER SPECIFICATION AND STANDARD DRAWINGS OF THE CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS, THE I.S.P.W.C., AND THE IDAHO WASTEWATER RULES.
- FINAL APPROVAL AND ACCEPTANCE OF ALL SEWER CONSTRUCTION WILL BE BY THE CITY OF TWIN FALLS.
- ALL SEWER PIPE WITH COVER OF GREATER THAN 3-FT SHALL BE BELL AND SPIGOT, POLYVINYL CHLORIDE (PVC), SDR 35, ASTM D-3034, CELL CLASS 12454-B AS SET FORTH BY THE CITY OF TWIN FALLS. SEWER PIPE WITH LESS THAN 3-FT OF COVER SHALL BE DUCTILE IRON CONFORMING TO ANSI A-21.51, OR AWWA C-151, OR AWWA C-900 PVC, OR AS APPROVED BY THE PROJECT ENGINEER. A RUBBER RING IS TO BE INSTALLED WHERE THE PIPE IS IN CONTACT WITH A CAST-IN-PLACE CONCRETE MANHOLE BASE AND/OR ITS CHANNEL, IN ORDER TO ENSURE A WATER-TIGHT SEAL.
- SEWER PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE TEMPORARILY PLUGGED TO PREVENT DEBRIS FROM ENTERING EXISTING SEWER MAINS DURING CONSTRUCTION.
- ALL MANHOLES SHALL BE CONSTRUCTED TO BE WATER-TIGHT WITH THE TOP OF CONE LOCATED WITHIN 1-FEET OF THE FINISHED GRADE. THE SEWER CONTRACTOR SHALL SUPPLY ALL LID ASSEMBLIES AND THE REQUIRED NUMBER OF GRADE RINGS. THE SEWER CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF THE TOP OF THE MANHOLE CONE TO ASSURE THAT ALL RING ELEVATIONS MATCH FINAL GRADES. MANHOLES MAY HAVE 12-INCHES MAXIMUM OF GRADE RINGS.
- STUBOUTS FOR SERVICE LINES SHALL BE MARKED IN ACCORDANCE WITH THE CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS. SERVICE STUBOUTS WILL BE TO THE POINTS SHOWN ON THE DRAWINGS OR AS MARKED BY THE PROJECT ENGINEER IN THE FIELD. SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF TWIN FALLS STANDARD DETAIL S-8. THE SEWER SERVICE MARKER SHALL BE IN PLACE FOR THE FINAL INSPECTION. SERVICE LINES SHALL EXTEND TEN (10) FEET BEYOND THE RIGHT-OF-WAY AND/OR ANY UTILITY TRENCH, WHICHEVER IS FURTHER.
- ALL SEWER SERVICES SHALL BE MARKED PER CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS.
- SEWER SERVICES LINE SHALL BE INSTALLED PRIOR TO STREET IMPROVEMENTS.
- THE HORIZONTAL SEPARATION OF THE POTABLE WATER MAINS AND NON-POTABLE WATER MAINS SHALL BE A MINIMUM OF TEN (10) FEET. THE HORIZONTAL SEPARATION OF POTABLE SERVICES AND NON-POTABLE MAINS AND/OR NON-POTABLE WATER SERVICES SHALL BE A MINIMUM OF SIX (6) FEET.
- WHERE IT IS NECESSARY FOR NON-POTABLE (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) LINES AND WATER LINES (I.E. SERVICES OR MAINS) TO CROSS EACH OTHER, AND THE NON-POTABLE LINE IS LESS THAN 18-IN ABOVE OR BELOW THE WATER LINE, THE NON-POTABLE LINE SHALL BE CONSTRUCTED OF MATERIALS CONFORMING TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FT ON BOTH SIDES OF THE WATER LINE IN ACCORDANCE WITH SECTION 550.06 OF IDAPA 58.01.08 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS. ONE FULL LENGTH OF BOTH WATER AND NON-POTABLE LINES SHALL BE CENTERED AT THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE.
- SANITARY SEWER MANHOLES SHALL CONFORM TO CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS SECTION 408. NO MORTAR SHALL BE USED WHICH HAS BEEN MIXED FOR A PERIOD EXCEEDING 30-MINUTES. EACH BARREL SECTION SHALL BE SET UPON A MASTIC AND SHALL BE TRIMMED FLUSH WITH THE INSIDE WALL OF THE MANHOLE. IF VOIDS OCCUR BETWEEN THE MASTIC AND INSIDE WALL OF THE MANHOLE, THE VOIDS SHALL BE GROUTED FLUSH WITH THE INSIDE WALL OF THE MANHOLE.
- ALL SANITARY SEWERS SHALL BE CLEANED AND TESTED AFTER BACKFILLING, BUT PRIOR TO SURFACE RESTORATION.
- ALL LINES SHALL BE CLEANED PRIOR TO TESTING BY MEANS OF A HYDROCLEANING ONLY. A FINE SCREEN SHALL BE PLACED IN THE DOWNSTREAM MANHOLE TO PREVENT DEBRIS FROM ENTERING THE EXISTING SYSTEM.
- PIPELINES SHALL BE TESTED PER CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS SECTION 410.
- THE CONTRACTOR SHALL TEST THE SEWER MAIN FOR DEFLECTION IN ACCORDANCE WITH CITY OF TWIN FALLS STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL AIR TEST IN THE PRESENCE OF THE PROJECT ENGINEER ALL THE SEWER LINES AFTER BACKFILLING AND SETTLING OF THE TRENCHES PRIOR TO THE INSTALLATION OF OTHER UTILITIES TO ENSURE THE INTEGRITY OF THE INSTALLED LINE. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND PERSONNEL REQUIRED TO PERFORM THE TEST. THE CONTRACTOR SHALL RE-TEST ALL SEWER LINES IN THE PRESENCE OF THE CITY OF TWIN FALLS PUBLIC WORKS AFTER ALL UTILITIES HAVE BEEN INSTALLED AND PRIOR TO INSTALLATION OF THE STREET SURFACING. THE CONTRACTOR SHALL SCHEDULE WITH THE CITY OF TWIN FALLS PUBLIC WORKS A MINIMUM OF 24-HOURS PRIOR TO THE RE-TEST.
- THE CONTRACTOR SHALL CLEAN AND CCTV ALL SEWER MAIN LINES. A VHS VIDEO TAPE AND LOG SHALL BE PROVIDED TO THE CITY OF TWIN FALLS. VIDEO TAPING OF THE LINES SHALL BE IN ACCORDANCE WITH THE CITY OF TWIN FALLS STANDARDS. WHERE AIR TESTING IS NOT APPLICABLE, ACCORDING TO THE ISPCW HYDROSTATIC TESTING SHALL BE REQUIRED. ALLOWABLE LIMITS SHALL BE ONE-HALF OF THE LIMITS INDICATED BY THE ISPCW.
- THE CITY OF TWIN FALLS PUBLIC WORKS MUST BE NOTIFIED IN ADVANCE TO BE ABLE TO CERTIFY MAINLINE TESTS AND PIPE INSPECTIONS.
- SEWER INSPECTIONS WILL BE BY THE CIVIL ENGINEER. SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER. THE CONTRACTOR SHALL NOTIFY THE CITY OF TWIN FALLS 48-HOURS PRIOR TO CONSTRUCTION.

Survey Control Notes:

HORIZONTAL & VERTICAL DATUM:
1. HORIZONTAL DATUM IS NAD 83 STATE PLANE COORDINATES INDOHO CENTRAL ZONE 1104.
2. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

BENCHMARKS:
3. SEE SHEET C1.00 FOR LOCATIONS OF BENCH MARKS LISTED BELOW:

TBM #1
N: 324785.925'
E: 1508794.052'
ELEV: 3728.23'
5/8-IN IRON REBAR W/ CAP LOCATED IN PLANTER ISLAND OF HUMANE SOCIETY PARKING LOT

TBM #2
N: 324706.780'
E: 1509275.126'
ELEV: 3728.85'
MAG NAIL LOCATED IN ASPHALT PAVEMENT AT EAST DRIVEWAY IN COCA-COLA PROPERTY, EAST OF SITE.



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811 OR 208.342.1585

Sheet List Table

Sheet Number	Sheet Title
C0.00	COVER & NOTES
C1.00	TOPOGRAPHIC SURVEY
C1.50	OVERALL SWPPP SITE PLAN
C1.51	SWPPP SITE PLAN - AREA A
C1.52	SWPPP SITE PLAN - AREA B
C2.00	SITE LAYOUT & MATERIALS PLAN - OVERALL & DEMOLITION
C2.01	SITE LAYOUT & MATERIALS PLAN - AREA A
C2.02	SITE LAYOUT & MATERIALS PLAN - AREA B
C2.50	SITE DETAILS
C2.51	SITE DETAILS
C4.00	SITE GRADING PLAN - OVERALL
C4.01	SITE GRADING & DRAINAGE PLAN - AREA A
C4.02	SITE GRADING & DRAINAGE PLAN - AREA B
C5.00	SITE UTILITY PLAN - OVERALL
C5.01	SITE UTILITY PLAN - AREA A
C5.02	SITE UTILITY PLAN - AREA B
L1.00	LANDSCAPE PLAN
L1.50	LANDSCAPE DETAILS
L2.00	IRRIGATION PLAN
L2.50	IRRIGATION DETAILS
L2.51	IRRIGATION DETAILS AND NOTES

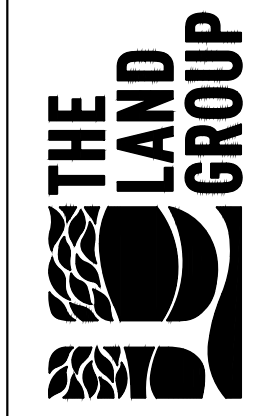


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1101 W. GROVE STREET
BOISE, ID 83702
www.pivotnorthdesign.com

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Project:
**TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE
TRAINING FACILITY**
430 VICTORY AVE
TWIN FALLS, ID 83301



SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Revisions:

Project No: 120104

Date: 02.04.2022

Checked By: EC/BS

Drawn By: CRJL

Sheet Name:

Topographic Survey

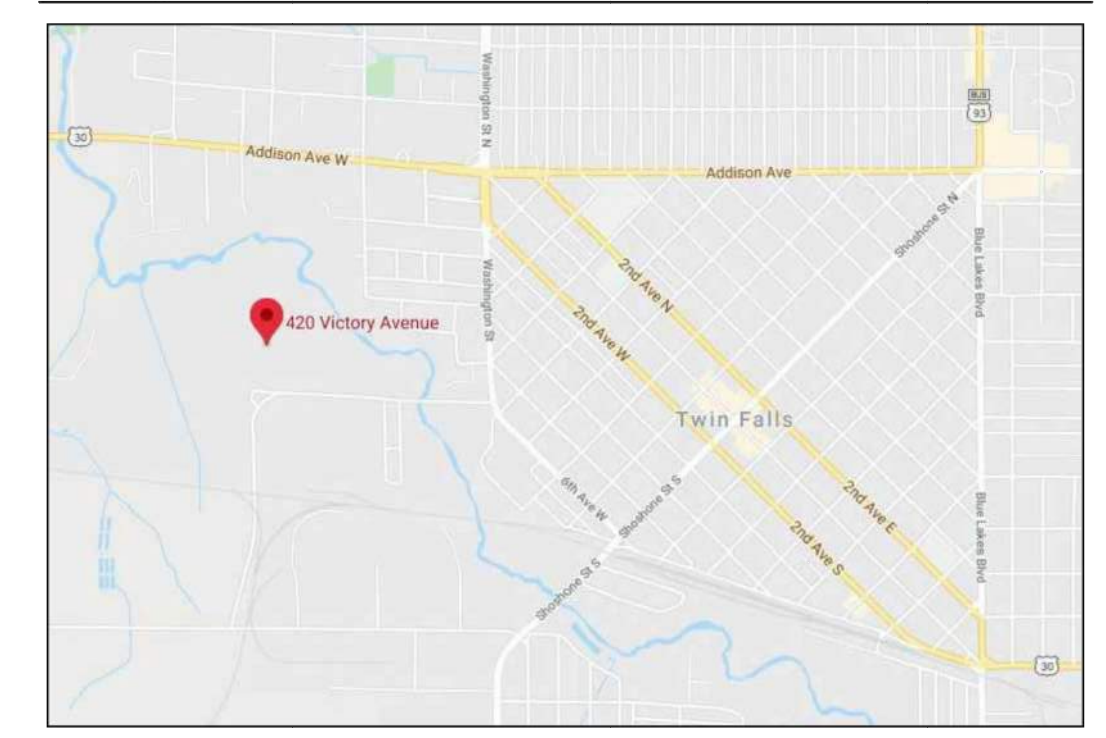
Sheet No:

C1.00

Topographic Survey

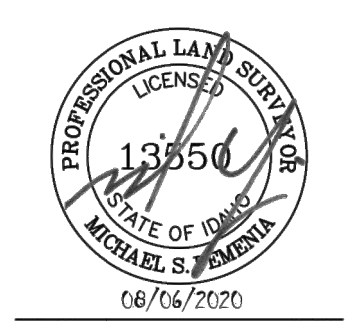
for
Pivot North Architecture
Being a Portion of Lot 1 of City Industrial Subdivision
Situate in the NW1/4 SE1/4 & SW1/4 NE1/4 of Section 17
Township 10 South, Range 17 East, Boise Meridian
Twin Falls, Twin Falls County, Idaho
2020

Vicinity Map:



Topographic Survey Pivot North Architecture

420 Victory Ave
Twin Falls, Idaho 83301



Project No.: 120104
Date of Issuance: August 6, 2020
Project Milestone:

1 of 1

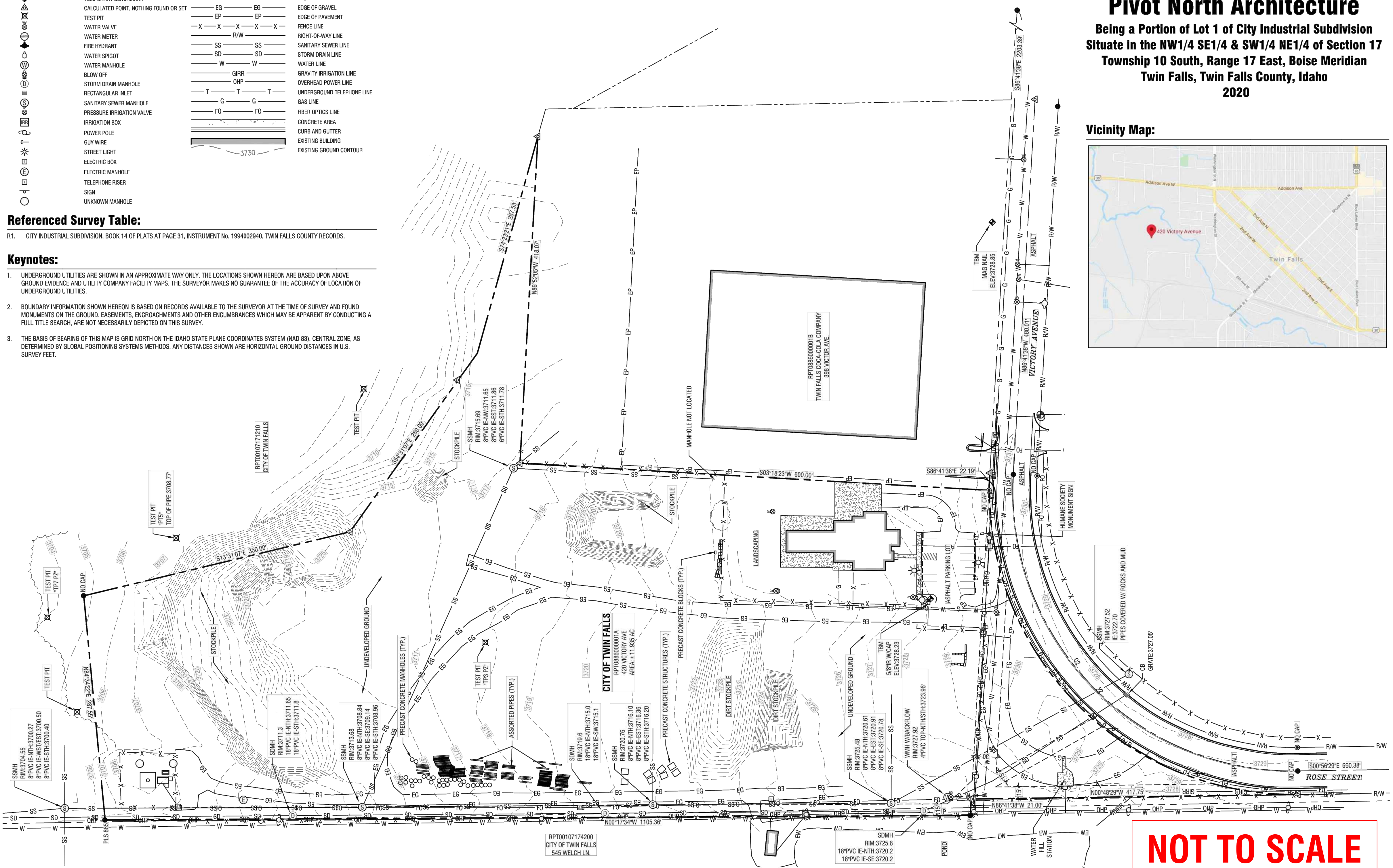
NOT TO SCALE

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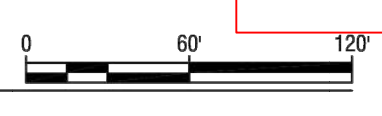
	FOUND ALUMINUM CAP MONUMENT		BOUNDARY LINE
	FOUND 5/8" REBAR, AS SHOWN		SECTION LINE
	FOUND 1/2" REBAR, AS SHOWN		ROADWAY CENTERLINE
	TEMPORARY BENCHMARK		EASEMENT LINE
	CALCULATED POINT, NOTHING FOUND OR SET		EDGE OF GRAVEL
	TEST PIT		EDGE OF PAVEMENT
	WATER VALVE		FENCE LINE
	WATER METER		RIGHT-OF-WAY LINE
	FIRE HYDRANT		SANITARY SEWER LINE
	WATER SPIGOT		STORM DRAIN LINE
	WATER MANHOLE		WATER LINE
	BLOW OFF		GRAVITY IRRIGATION LINE
	STORM DRAIN MANHOLE		OVERHEAD POWER LINE
	RECTANGULAR INLET		UNDERGROUND TELEPHONE LINE
	SANITARY SEWER MANHOLE		GAS LINE
	PRESSURE IRRIGATION VALVE		FIBER OPTICS LINE
	IRRIGATION BOX		CONCRETE AREA
	POWER POLE		CURB AND GUTTER
	GUY WIRE		EXISTING BUILDING
	STREET LIGHT		EXISTING GROUND CONTOUR
	ELECTRIC MANHOLE		
	TELEPHONE RISER		
	SIGN		
	UNKNOWN MANHOLE		

Referenced Survey Table:
R1. CITY INDUSTRIAL SUBDIVISION, BOOK 14 OF PLATS AT PAGE 31, INSTRUMENT No. 1994002940, TWIN FALLS COUNTY RECORDS.

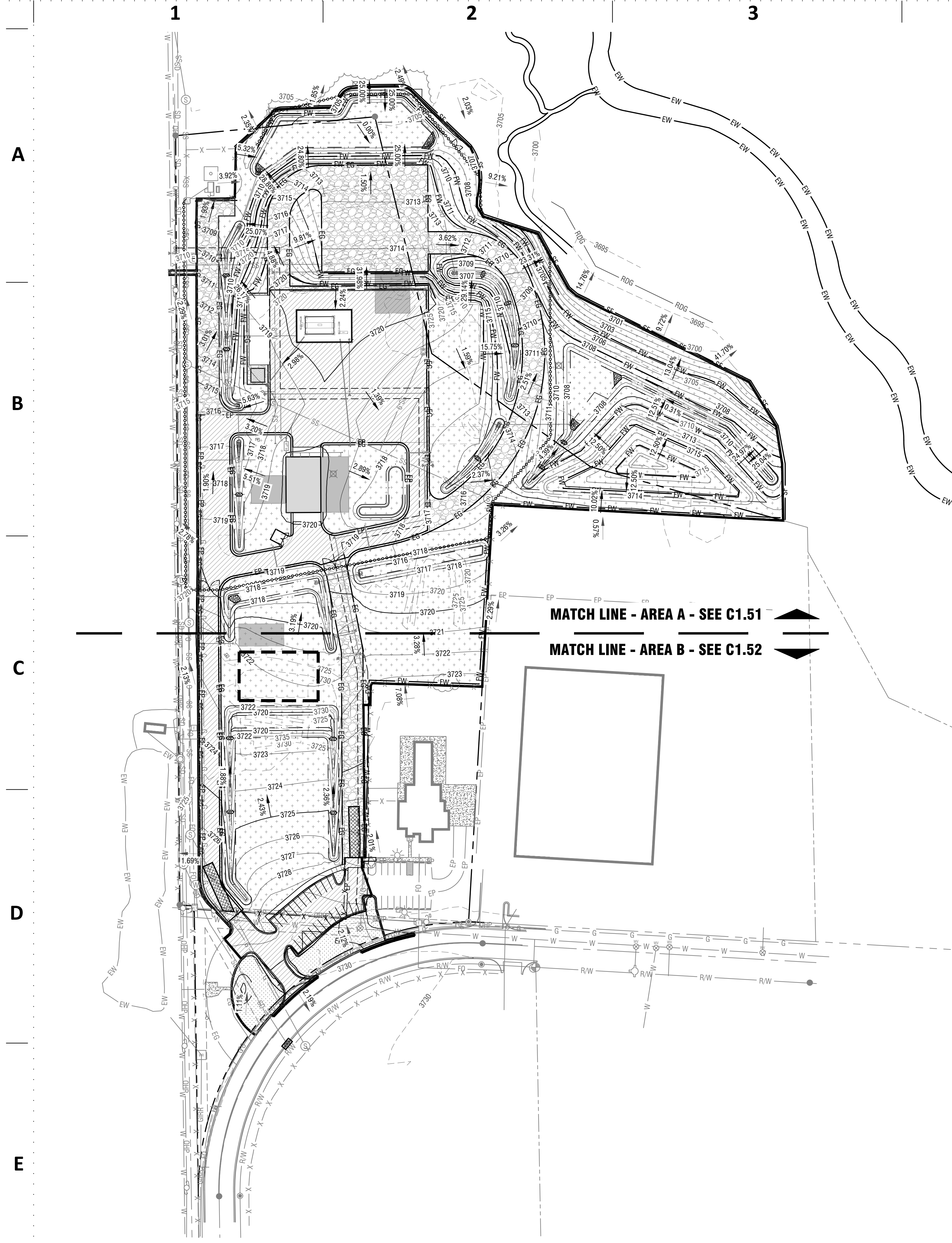
- Keynotes:**
- UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE LOCATIONS SHOWN HEREON ARE BASED UPON ABOVE GROUND EVIDENCE AND UTILITY COMPANY FACILITY MAPS. THE SURVEYOR MAKES NO GUARANTEE OF THE ACCURACY OF LOCATION OF UNDERGROUND UTILITIES.
 - BOUNDARY INFORMATION SHOWN HEREON IS BASED ON RECORDS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY AND FOUND MONUMENTS ON THE GROUND. EASEMENTS, ENCROACHMENTS AND OTHER ENCUMBRANCES WHICH MAY BE APPARENT BY CONDUCTING A FULL TITLE SEARCH, ARE NOT NECESSARILY DEPICTED ON THIS SURVEY.
 - THE BASIS OF BEARING OF THIS MAP IS GRID NORTH ON THE IDAHO STATE PLANE COORDINATES SYSTEM (NAD 83), CENTRAL ZONE, AS DETERMINED BY GLOBAL POSITIONING SYSTEMS METHODS. ANY DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET.



Topographic Survey
Horizontal Scale: 1"=60'



- Sheet Notes:**
- TOPOGRAPHIC SURVEY IS PROVIDED FOR REFERENCE. MATERIAL MAY HAVE BEEN ADDED TO OR REMOVED FROM THE SITE SINCE THE SURVEY WAS COMPLETE.



SWPPP General Notes:

- ALL BMP NUMBERS ARE REFERENCED FROM IDAHO DEQ BEST MANAGEMENT PRACTICES.
- ALL STORM WATER WILL BE CONTAINED ON SITE.
- ALL BMP'S SHALL BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS -OR- ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT PRODUCING 0.25 INCHES OR GREATER. INSPECTION FREQUENCY MAY BE REDUCED TO ONCE EVERY MONTH IF:
 - THE ENTIRE SITE IS TEMPORARILY STABILIZED, OR
 - RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS, OR
 - CONSTRUCTION IS OCCURRING DURING SEASONAL ARID PERIODS (MAY THROUGH SEPTEMBER) IN ARID AREAS AND SEMI-ARID AREAS.
- DEWATERING IS NOT EXPECTED FOR THIS SITE. ONSITE SWPPP CONTRACTOR IS RESPONSIBLE FOR ALL NON-STORMWATER MANAGEMENT.
- STREET SWEEPING WILL BE IMPLEMENTED ON AN AS-NEEDED BASIS AS DETERMINED BY THE SWPPP RESPONSIBLE PERSON.
- PROVIDE WASTE CONTAINERS FOR BUILDING MATERIALS IN WASTE STORAGE CONTAINMENT AREA. WASTE DISPOSAL DUMPSTERS MUST HAVE LIDS, OR PROVIDE COVER OR A SIMILARLY EFFECTIVE MEANS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND AT THE END OF THE BUSINESS DAY. DISPOSE AT A FREQUENCY ACCORDING TO CONTAINER SIZE.
- LOCATE ALL PORTABLE RESTROOMS AS FAR FROM PUBLIC AND PRIVATE STORM DRAIN SYSTEMS AS POSSIBLE. ANCHOR TO PREVENT VANDALISM.
- SLURRY AND CUTTINGS FROM SAWCUTTING OF CONCRETE OR ASPHALT SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT. SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
- ALL EXCESS MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED LOCATION. EXCESS MATERIAL MAY BE TEMPORARILY STORED ON SITE (IF APPROVED BY THE OWNER) AT A PRE-APPROVED LOCATION. IF MATERIAL IS STOCKPILED FOR MORE THAN 14 DAYS STOCKPILE IS TO BE STABILIZED PER BMP #44.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ISPPWC.
- SEE LANDSCAPE AND MATERIALS PLANS FOR INFORMATION CONCERNING FINAL SOIL STABILIZATION MEASURES.
- ALL GRADING, UTILITY, AND ROADWAY CONSTRUCTION SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 9:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY, UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
- ANY MODIFICATIONS TO THIS PLAN REQUIRE APPROVAL OF THE DESIGNER OR THE ONSITE RESPONSIBLE PERSON.
- TOTAL DISTURBED AREA FOR THIS ON-SITE WORK IS APPROXIMATELY: 12.75 ACRES.
- UPON CONTRACT APPROVAL BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE PLAN DRAWINGS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED HEREIN.

Soil Stabilization

- IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

NOTE: ONE OF THE FOLLOWING TEMPORARY SOIL STABILIZATION PRACTICES SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS AND/OR WHERE SHOWN ON PLAN, UNLESS CONDITIONS AS LISTED ABOVE DICTATE OTHERWISE:

- MULCHING (BMP 52) - APPLY GRAVEL, STRAW, GRASS, COMPOST, WOOD CHIPS OR WOOD FIBERS TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION. **AND/OR:**
- GEOTEXTILE (BMP 53) - APPLY NONBIODEGRADABLE SYNTHETIC FABRIC TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION. **AND/OR:**
- MATTING (BMP 54) - APPLY BIODEGRADABLE WOVEN OR JUTE FIBER MAT TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION.

PERMANENT SOIL STABILIZATION BMP'S:
LANDSCAPING (BMP 32) - COORDINATE WITH THE APPROVED LANDSCAPE PLAN FOR LOCATIONS AND TIMING.

SWPPP Posting Requirements:

- THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR APPLYING FOR OBTAINING THE EPA NOTICE OF INTENT (NOI).
- A COMPLETE COPY OF THE SWPPP (INCLUDING A COPY OF THE CONSTRUCTION GENERAL PERMIT AND COMPLETED INSPECTION FORMS), NOI, AND ACKNOWLEDGEMENT LETTER FROM EPA MUST BE RETAINED AT THE CONSTRUCTION SITE (OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS) AND MADE AVAILABLE FOR REVIEW BY EPA, A STATE, OR OTHER LOCAL APPROVING AGENCY.
- A SIGN OR OTHER NOTICE MUST BE POSTED IN A CONSPICUOUS LOCATION NEAR THE CONSTRUCTION ENTRANCE. THE SIGN OR OTHER NOTICE MUST CONTAIN THE FOLLOWING INFORMATION:
 - AT A MINIMUM, THE NOTICE MUST INCLUDE THE NPDES PERMIT TRACKING NUMBER AND A CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL PROJECT INFORMATION AS WELL AS THE ADDRESS OF THE SITE. THE PERMIT HOLDER'S NAME AND THE PHONE NUMBER OF THE STORMWATER POLLUTION HOTLINE (208.395.8888) MUST BE DISPLAYED THROUGHOUT CONSTRUCTION.
 - THE UNIFORM RESOURCE LOCATOR (URL) FOR THE SWPPP (IF AVAILABLE), OR THE FOLLOWING STATEMENT: "IF YOU WOULD LIKE TO OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS SITE, CONTACT THE EPA REGIONAL OFFICE AT EPA REGION 10 STORMWATER PROGRAM MISHA VAKOC (VAKOC.MISHA@EPA.GOV) (206) 553-6650"
 - AND THE FOLLOWING STATEMENT "IF YOU OBSERVE INDICATORS OF STORMWATER POLLUTANTS IN THE DISCHARGE OR IN THE RECEIVING WATERBODY, CONTACT THE EPA THROUGH THE FOLLOWING WEBSITE: [HTTPS://WWW.EPA.GOV/ENFORCEMENT/REPORT-ENVIRONMENTAL-VIOLATIONS](https://www.epa.gov/enforcement/report-environmental-violations)"
 - THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC ROAD THAT IS NEAREST TO THE ACTIVE PART OF THE CONSTRUCTION SITE.
 - THE NOTICE MUST USE A FONT LARGE ENOUGH TO BE READILY VIEWED FROM A PUBLIC RIGHT-OF-WAY.
- THE SWPPP MUST BE SIGNED AND CERTIFIED IN ACCORDANCE WITH APPENDIX I, SECTION I.11 OF THE CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR OBTAINING THE EPA FORMS FOR N.O.T. (NOTICE OF TERMINATION).

Contact Information

OWNER: CITY OF TWIN FALLS
203 MAIN AVE. EAST
TWIN FALLS, ID 83301
CONTACT: MANDI THOMPSON
PH: 208.735.7237

CONTRACTOR: STARR CORPORATION
2995 E. 3600 N.
TWIN FALLS, ID 83301
CONTACT: MICHAEL ARRINGTON
PH: 208.733.5695
EMAIL: michael@starrcorporation.com

ONSITE SWPPP COORDINATOR: TO BE DETERMINED

PLAN PREPARER: THE LAND GROUP
462 E. SHORE DR., SUITE 100
EAGLE, ID 83616
ROGER COLLINS
PHONE: 208.939.4041
roger@thelandgroupinc.com

ENGINEER: THE LAND GROUP, INC.
462 E. SHORE DR., SUITE 100
EAGLE, ID 83616
ERIC CRONIN, PE
PHONE: 208.939.4041

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C1.55 OF MASS GRADING SET.
- SILT FENCE PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #65. SEE DETAIL ON SHEET C155 OF MASS GRADING SET.
- CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C155 OF MASS GRADING SET.
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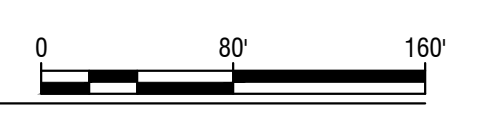
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Revisions:

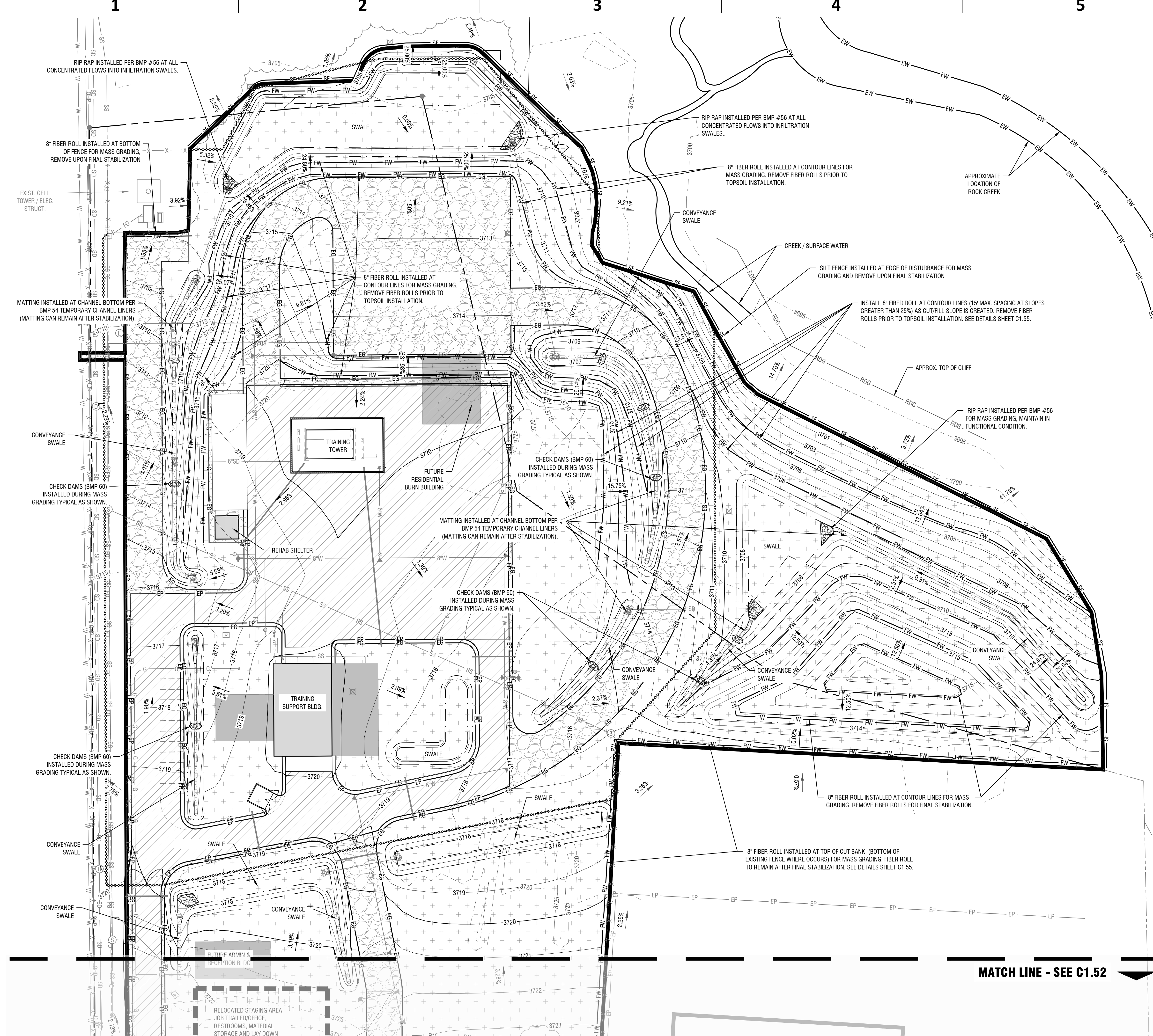
Project No: 120104
Date: 02.04.2022
Checked By: ECBS
Drawn By: CRUL

Sheet Name:
Overall SWPPP Site Plan

Sheet No:
C1.50



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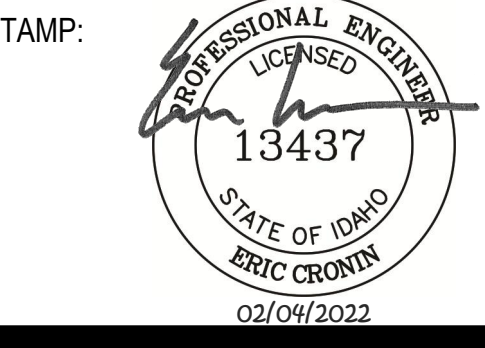
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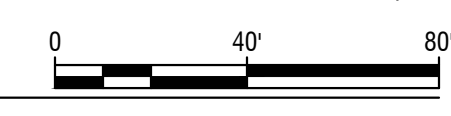
Revisions:

Project No: 120104
Date: 02.04.2022
Checked By: EC/BS
Drawn By: CRJL

Sheet Name:
**SWPPP Site Plan -
Area A**

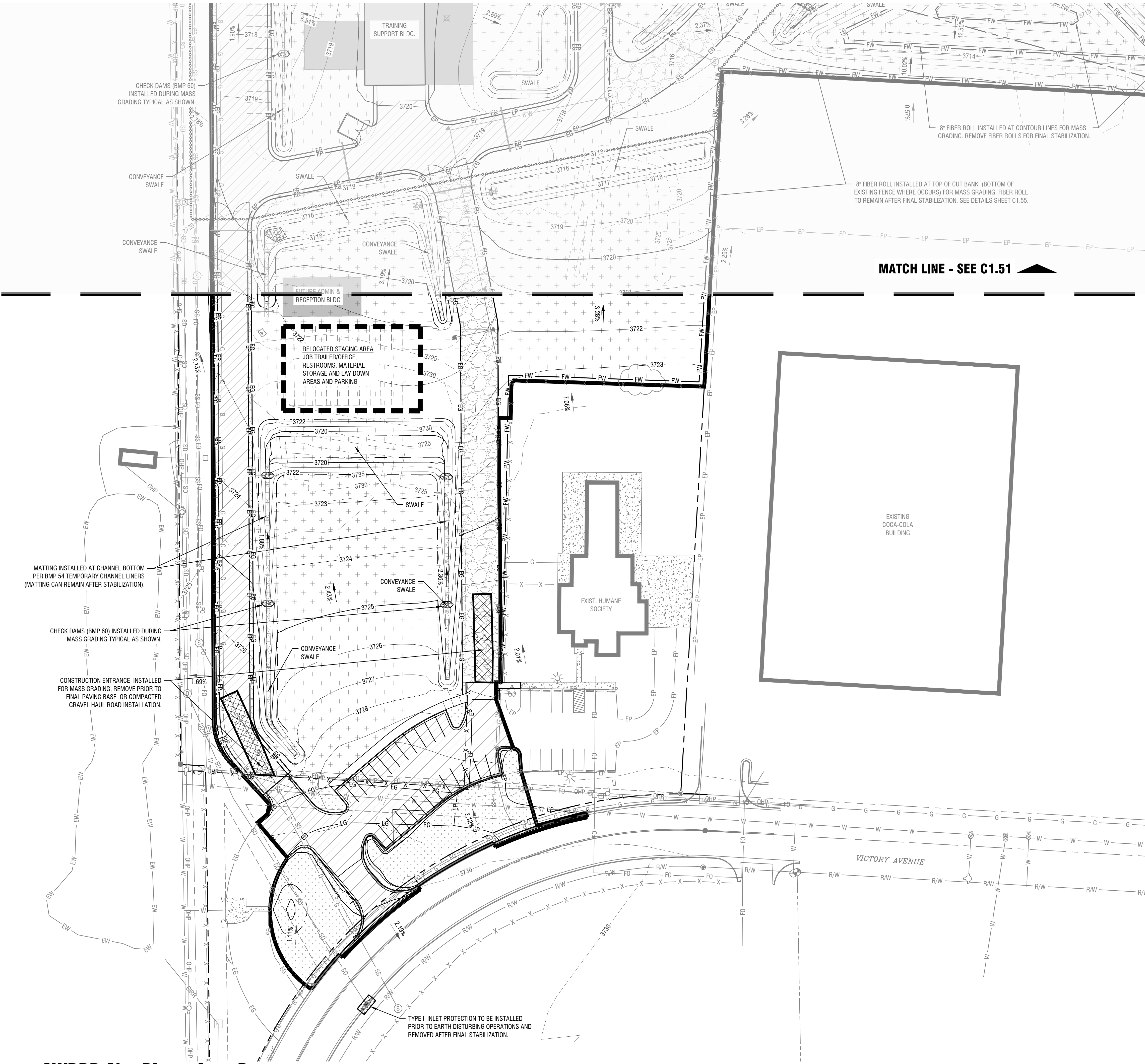
Sheet No:
C1.51

SWPPP Site Plan - Area A
Horizontal Scale: 1" = 40'



1 2 3 4 5

A
B
C
D
E



ESC/SWPPP Legend

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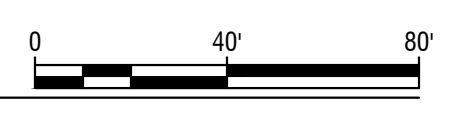


Revisions:

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CRJL

Sheet Name:
**SWPPP Site Plan -
Area B**

Sheet No:
C1.52



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1

2

3

4

5

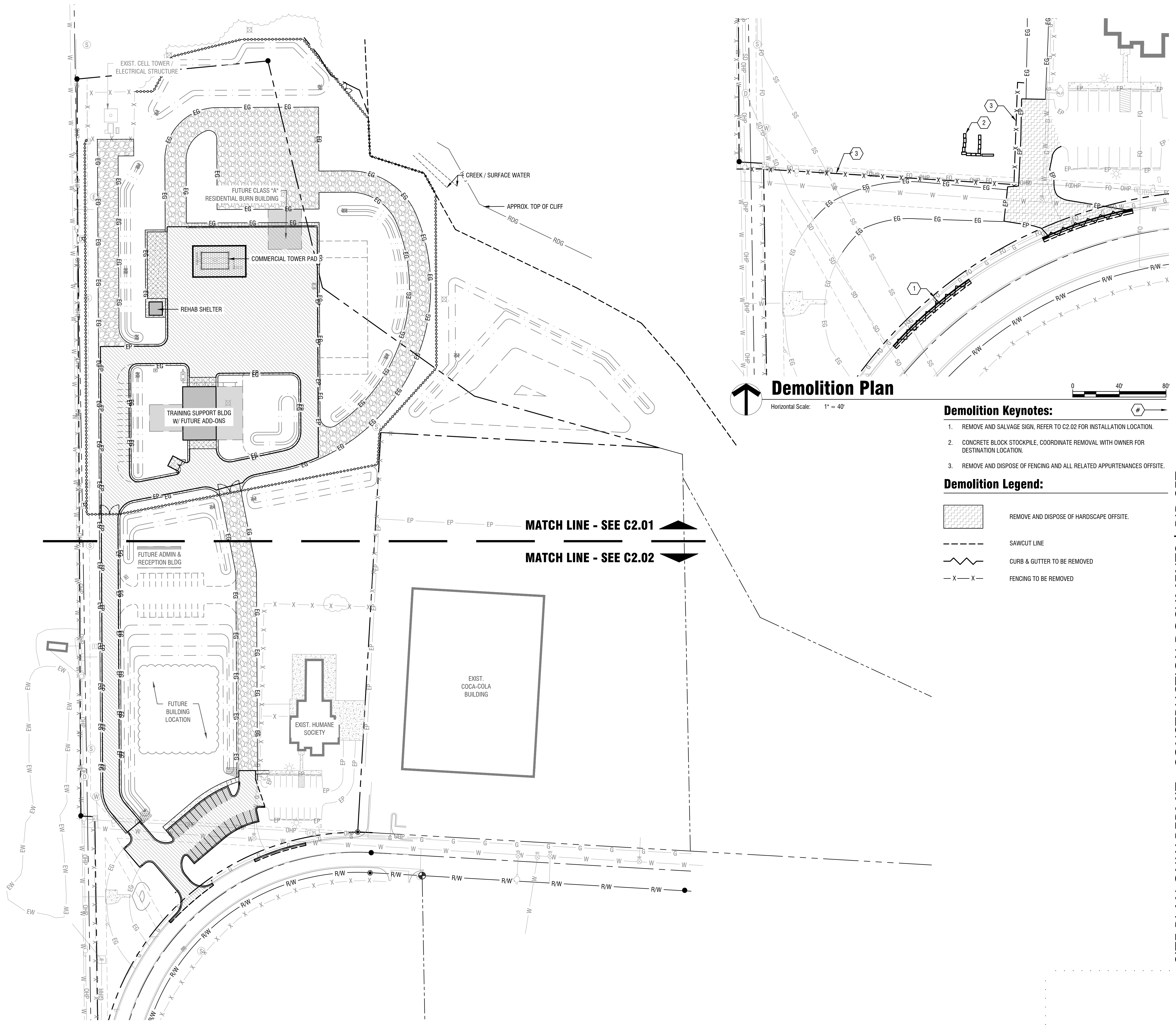
A

B

C

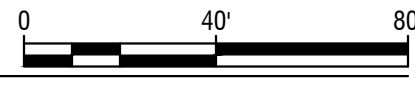
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E



Demolition Plan

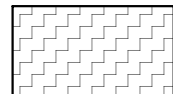
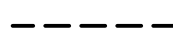


Horizontal Scale: 1" = 40'



Demolition Keynotes:

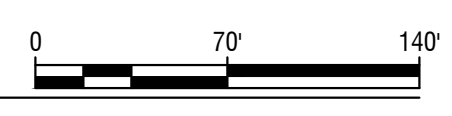
1. REMOVE AND SALVAGE SIGN, REFER TO C2.02 FOR INSTALLATION LOCATION.
2. CONCRETE BLOCK STOCKPILE, COORDINATE REMOVAL WITH OWNER FOR DESTINATION LOCATION.
3. REMOVE AND DISPOSE OF FENCING AND ALL RELATED APPURTENANCES OFFSITE.

Demolition Legend:

-  REMOVE AND DISPOSE OF HARDSCAPE OFFSITE.
-  SAWCUT LINE
-  CURB & GUTTER TO BE REMOVED
-  FENCING TO BE REMOVED

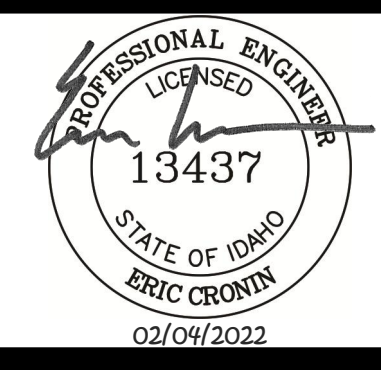
Site Layout & Materials Plan - Overall & Demolition

Horizontal Scale: 1" = 70'



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Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE
TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

THE LAND GROUP

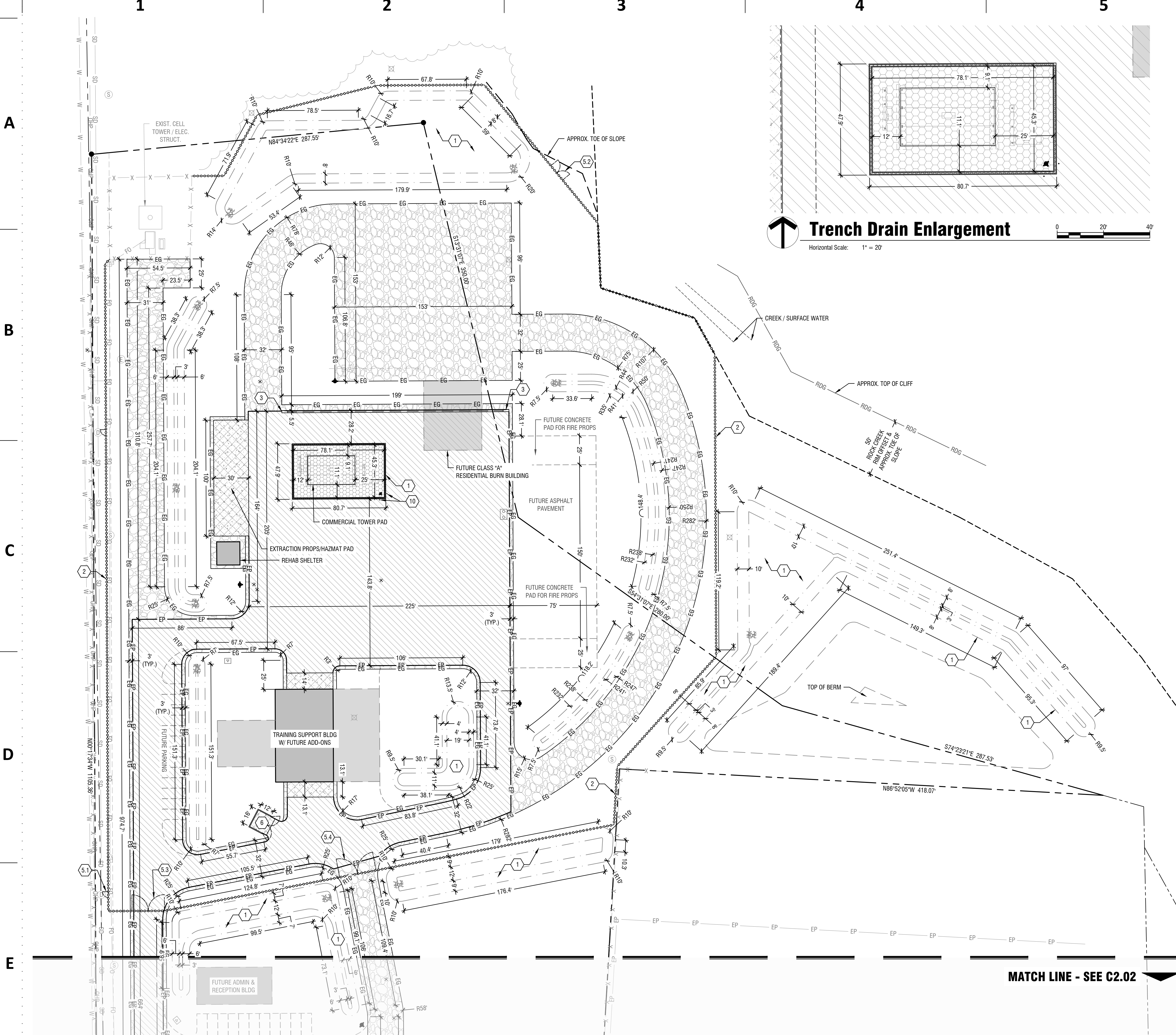
SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Revisions: 

Project No:	120104
Date:	02.04.2022
Checked By:	ECBS
Drawn By:	CRUL

Sheet Name:
Site Layout & Materials Plan - Overall & Demolition

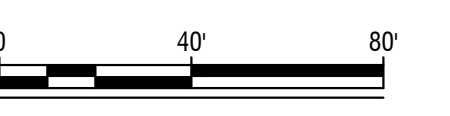
Sheet No:
C2.00



- Sheet Notes:**
- CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION NOTES, ON PLAN SHEET C0.00.
 - REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LAYOUT OF PROPOSED IMPROVEMENTS RELATIVE TO EXISTING BUILDINGS AND SITE, BRINGING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.
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 - GRAVEL SECTION THICKNESS ACCOMMODATES FUTURE PAVING EFFORTS. TOP 3" WILL BE REMOVED TO ALLOW INSTALLATION OF 3" ASPHALT DEPTH.

- Keynotes:**
- PROPOSED STORM WATER INFILTRATION FACILITY OR STRUCTURE, REFER TO SHEET C4.01 & C5.01 FOR MORE INFORMATION.
 - INSTALL 6-FT CHAIN LINK FENCE AND GATES WHERE APPLICABLE, EXTENTS AND GATE LOCATIONS SHALL BE CONFIRMED WITH OWNER PRIOR TO INSTALLATION.
 - INSTALL CURB TERMINUS PER ISPPWC SD-707.
 - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND/OR CONCRETE.
 - INSTALL MANUAL GATE, REFER TO SPECIFICATION SECTION 32.31.13.
 - 5-FT MAN GATE
 - 8-FT DUAL MANUAL SWING GATE
 - 14-FT DUAL MANUAL SWING GATE
 - 16-FT DUAL MANUAL SWING GATE
 - CMU BLOCK TRASH ENCLOSURE WITH LOCKING GATE, DIMENSIONED PER PLAN. ADDITIONAL DETAILS SHALL BE SUBMITTED WITH BUILDING PERMIT PLANS.
 - WHITE PAVEMENT MARKING PER SPECIFICATION SECTION 32.13.13.
 - INSTALL 30-IN x 30-IN STOP SIGN (R1-1) PER ISPPWC SD-1130.
 - REINSTALL CHEVRON SYMBOL SIGN, SIMILAR TO ISPPWC SD-1130.
 - INSTALL STEEL BOLLARD PER DETAIL 9/C2.50.

- Material & Line Legend:**
- HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 1/C2.50.
 - LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 2/C2.50.
 - GRAVEL ROAD PER DETAIL 3/C2.50.
 - HEAVY DUTY CONCRETE PER DETAIL 4/C2.50.
 - LIGHT DUTY CONCRETE PER CITY OF TWIN FALLS STANDARD DRAWING TFSO-709, REFER TO PLAN FOR DIMENSIONS.
 - STRUCTURAL CONCRETE SECTION. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
 - INSTALL 8-IN DEPTH OF D₉₀ = 0.33' ANGULAR RIPRAP ABOVE DRAINAGE GEOTEXTILE.
 - CURB & CATCH PLATE GUTTER PER DETAIL 7/C2.50.
 - CURB & REVERSE PLATE GUTTER PER DETAIL 6/C2.50.
 - 6-FT CHAIN LINK FENCE PER SPECIFICATION SECTION 32.31.13.
 - GATE, REFER TO KEYNOTES AND SPECIFICATION SECTION 32.31.13.



Site Layout & Materials Plan - Area A
Horizontal Scale: 1" = 40'

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Project:
**TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY**
 430 VICTORY AVE
 TWIN FALLS, ID 83301

Revisions:

Project No: 120104
 Date: 02.04.2022
 Checked By: ECBS
 Drawn By: CRUL

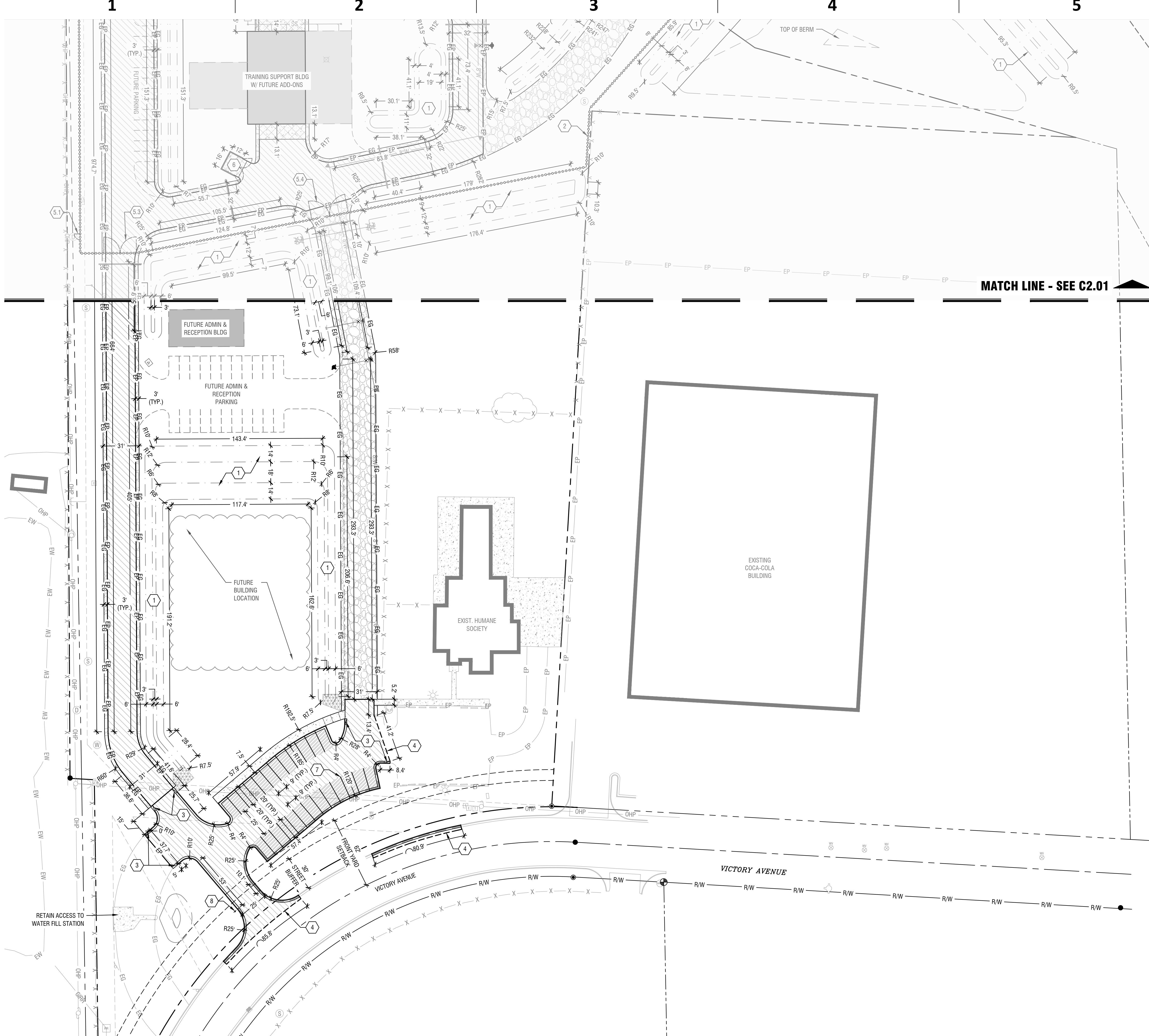
Sheet Name:
**Site Layout &
 Materials Plan - Area
 A**

Sheet No:
C2.01



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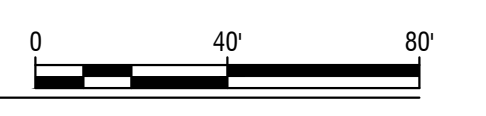
Keynotes:

- PROPOSED STORM WATER INFILTRATION FACILITY OR STRUCTURE, REFER TO SHEET C4.01 & C5.01 FOR MORE INFORMATION.
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- INSTALL CURB TERMINUS PER ISPPWC SD-707.
- PROVIDE NEAT SAW CUT LINE OF ASPHALT AND/OR CONCRETE.
- INSTALL MANUAL GATE, REFER TO SPECIFICATION SECTION 32.31.3.
 - 5-FT MAN GATE
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 - 14-FT DUAL MANUAL SWING GATE
 - 16-FT DUAL MANUAL SWING GATE
- CMU BLOCK TRASH ENCLOSURE WITH LOCKING GATE, DIMENSIONED PER PLAN. ADDITIONAL DETAILS SHALL BE SUBMITTED WITH BUILDING PERMIT PLANS.
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Material & Line Legend:

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- GRAVEL ROAD PER DETAIL 3/C2.50.
- HEAVY DUTY CONCRETE PER DETAIL 4/C2.50.
- LIGHT DUTY CONCRETE PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-709, REFER TO PLAN FOR DIMENSIONS.
- STRUCTURAL CONCRETE SECTION. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
- INSTALL 8-IN DEPTH OF $D_{90} = 0.33'$ ANGULAR RIPRAP ABOVE DRAINAGE GEOTEXTILE.
- CURB & CATCH PLATE GUTTER PER DETAIL 7/C2.50.
- CURB & REVERSE PLATE GUTTER PER DETAIL 6/C2.50.
- 6-FT CHAIN LINK FENCE PER SPECIFICATION SECTION 32.31.13.
- GATE, REFER TO KEYNOTES AND SPECIFICATION SECTION 32.31.13.

Site Layout & Materials Plan - Area B
Horizontal Scale: 1" = 40'



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Project:
**TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY**
 430 VICTORY AVE
 TWIN FALLS, ID 83301

Revisions:

Project No: 120104
 Date: 02.04.2022
 Checked By: ECBS
 Drawn By: CRUL

Sheet Name:
**Site Layout &
 Materials Plan - Area B**

Sheet No:
C2.02

Sheet Notes:

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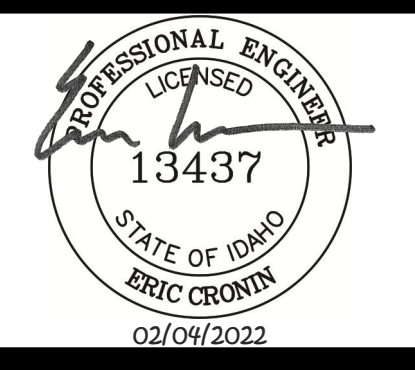
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- LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 2/C2.50.
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- GATE, REFER TO KEYNOTES AND SPECIFICATION SECTION 32.31.13.

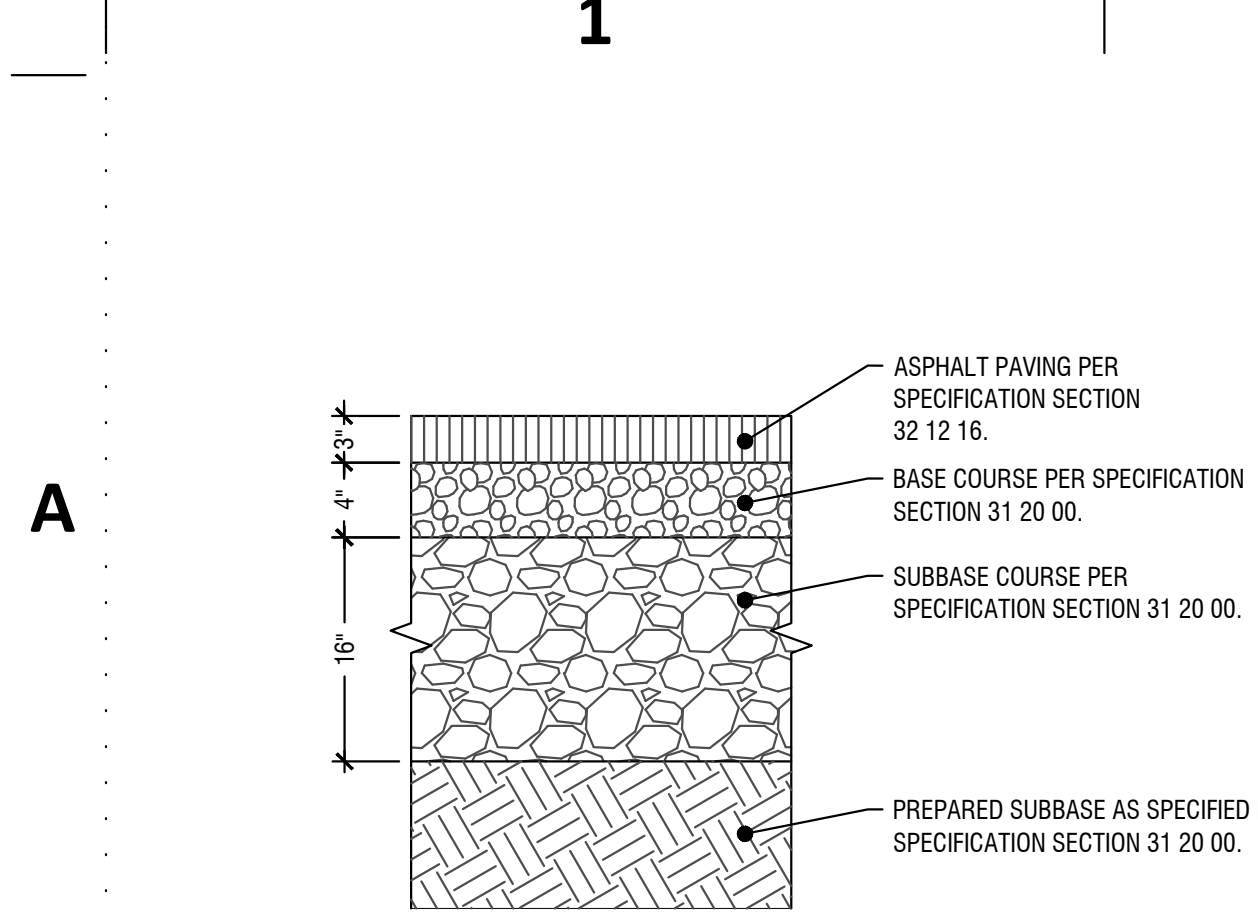


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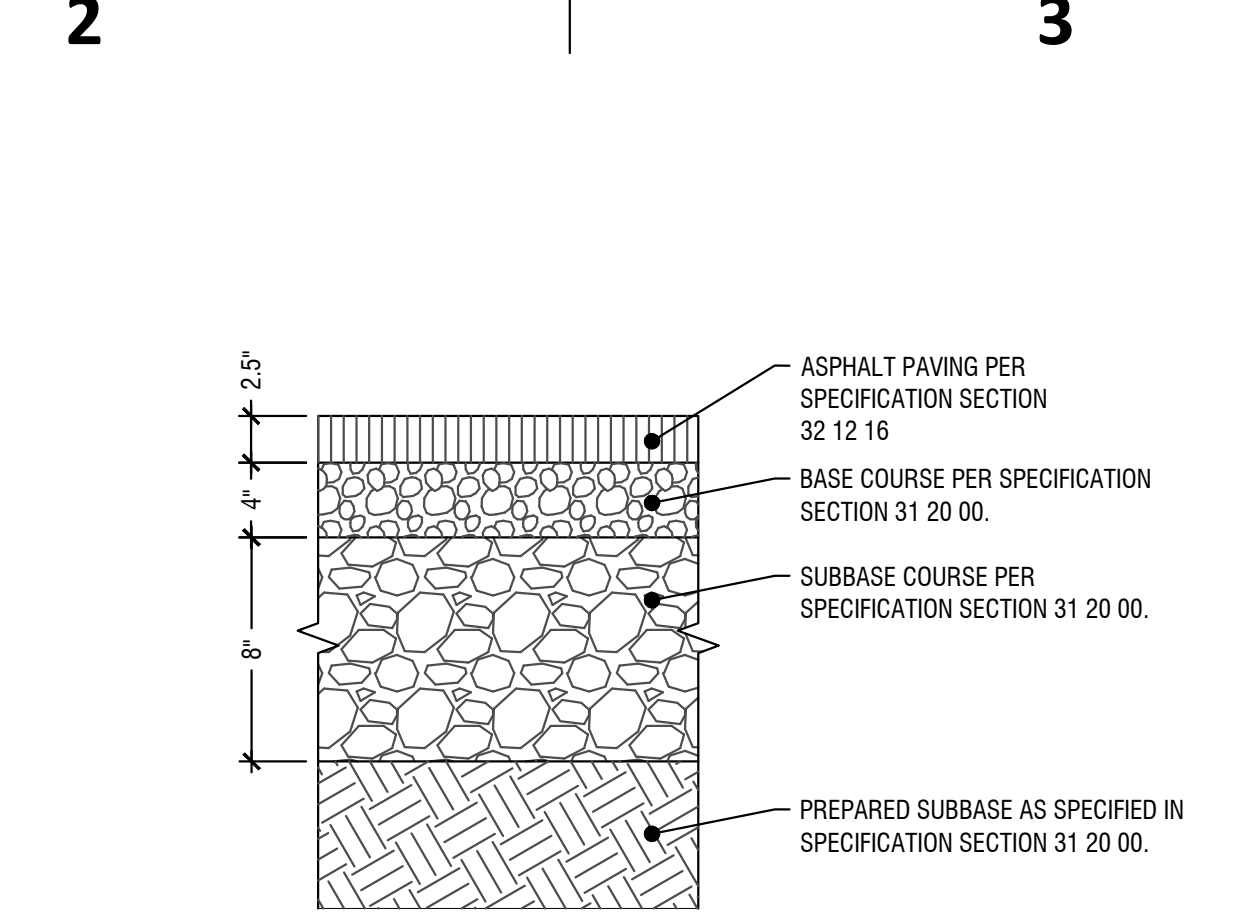
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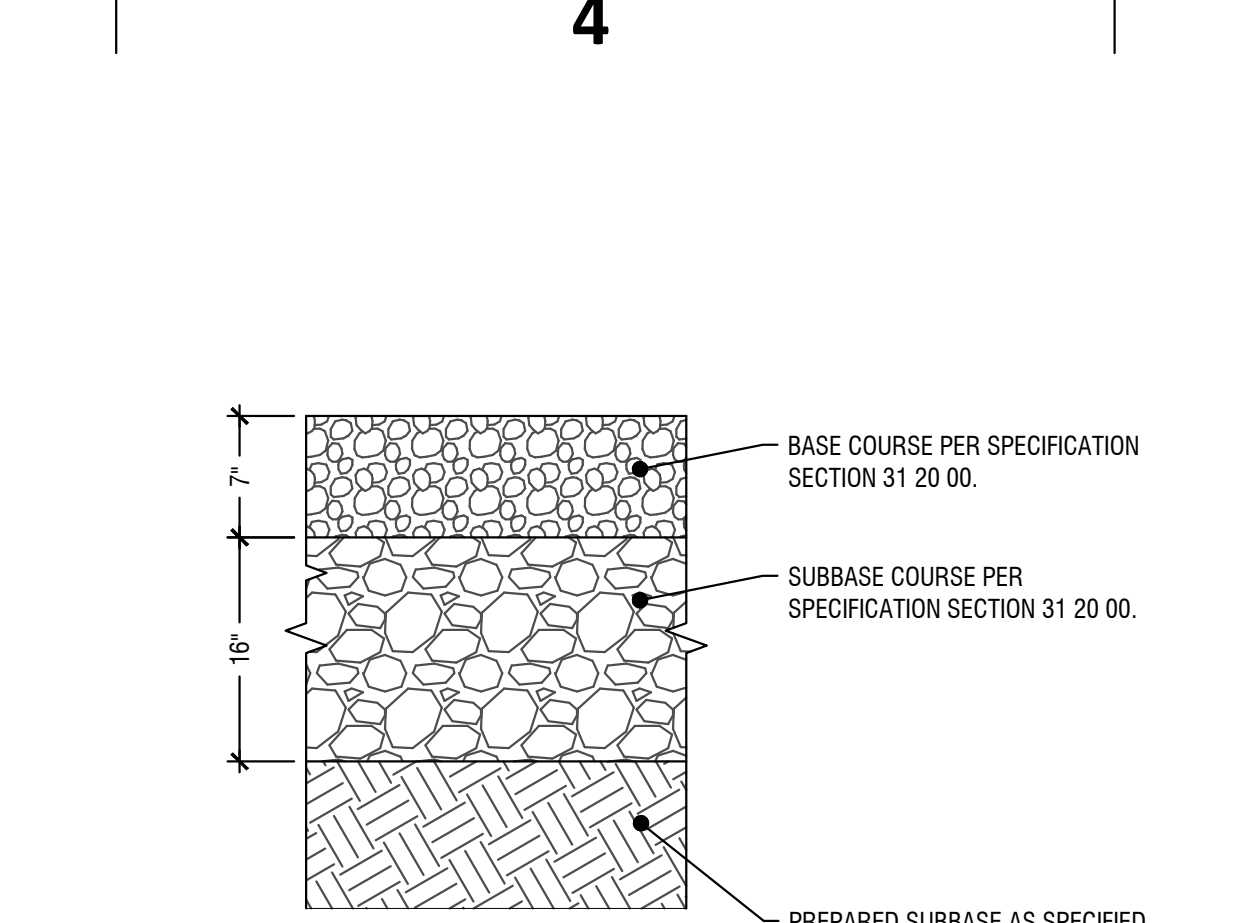
**TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY**
 430 VICTORY AVE
 TWIN FALLS, ID 83301



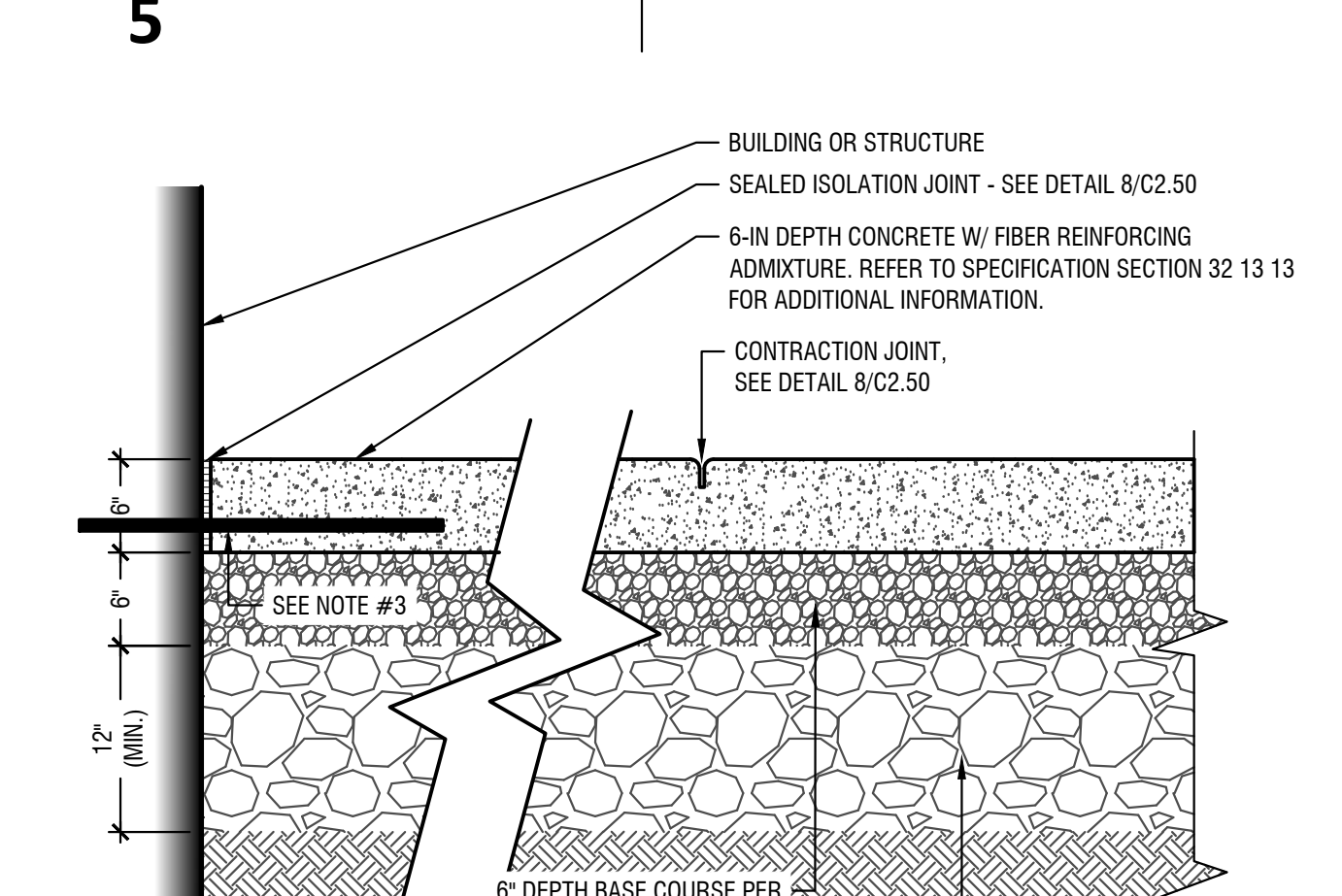
1 Heavy Duty Asphalt Section
Scale: NTS



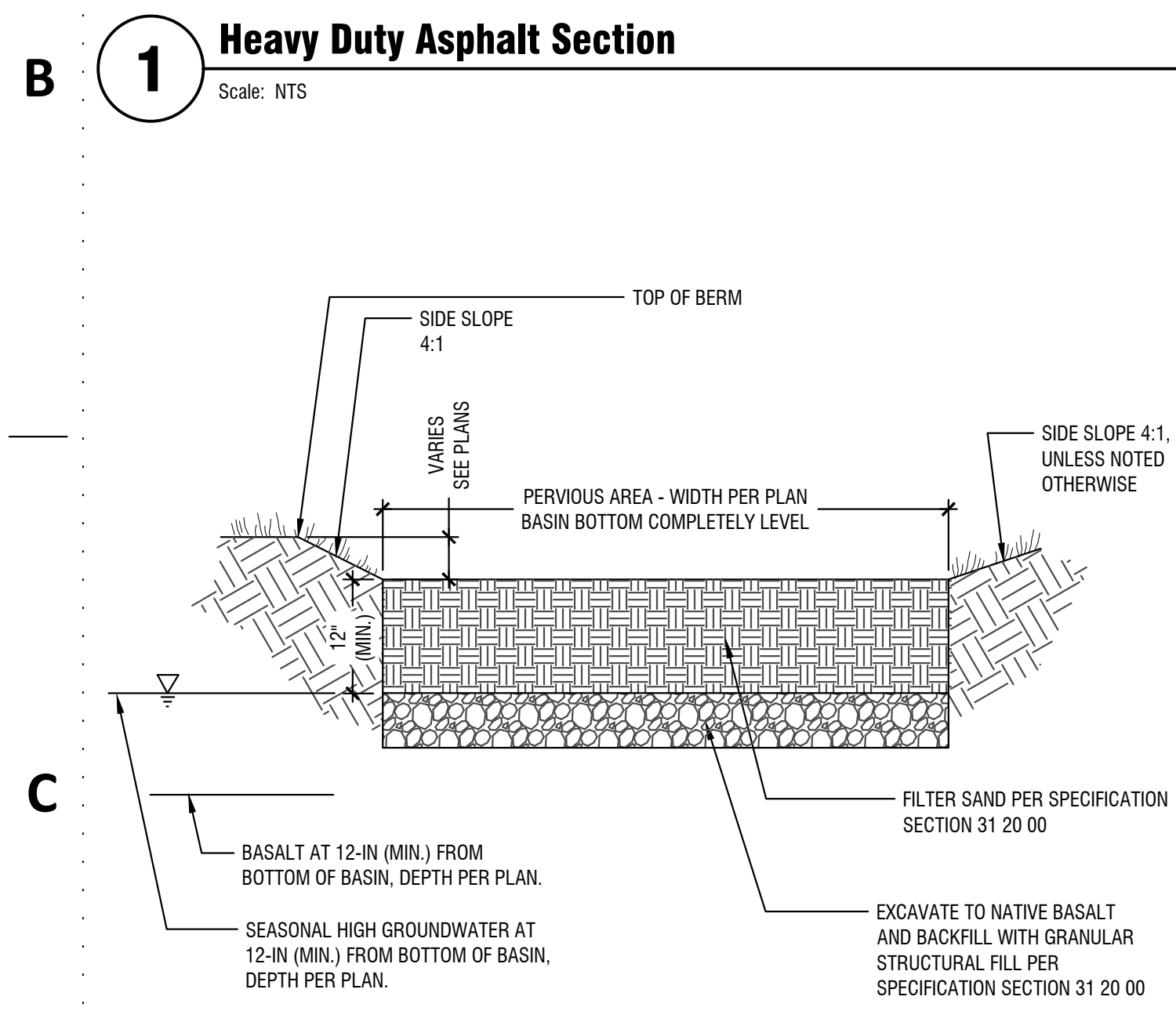
2 Light Duty Asphalt Section
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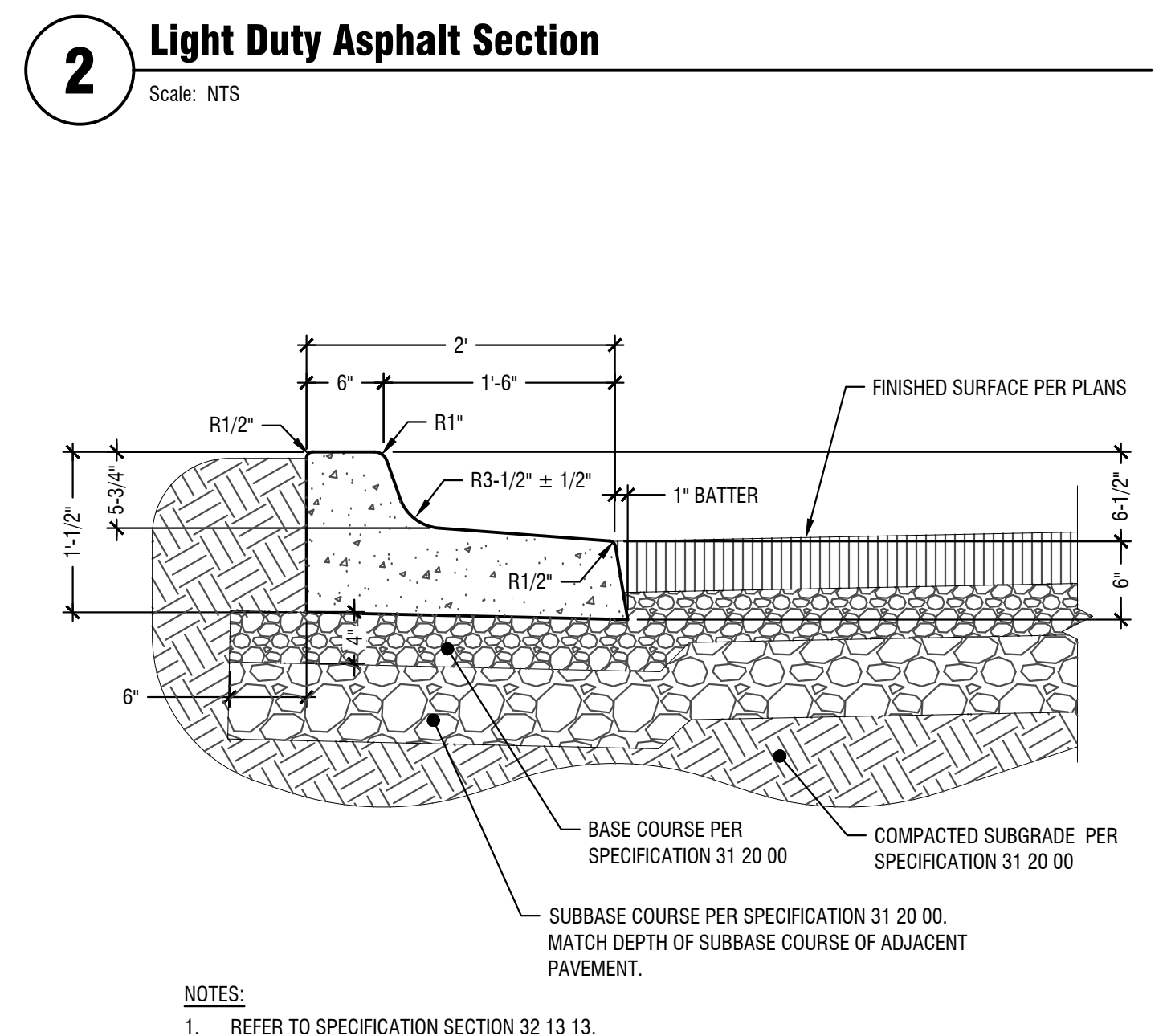
3 Gravel Road Section
Scale: NTS



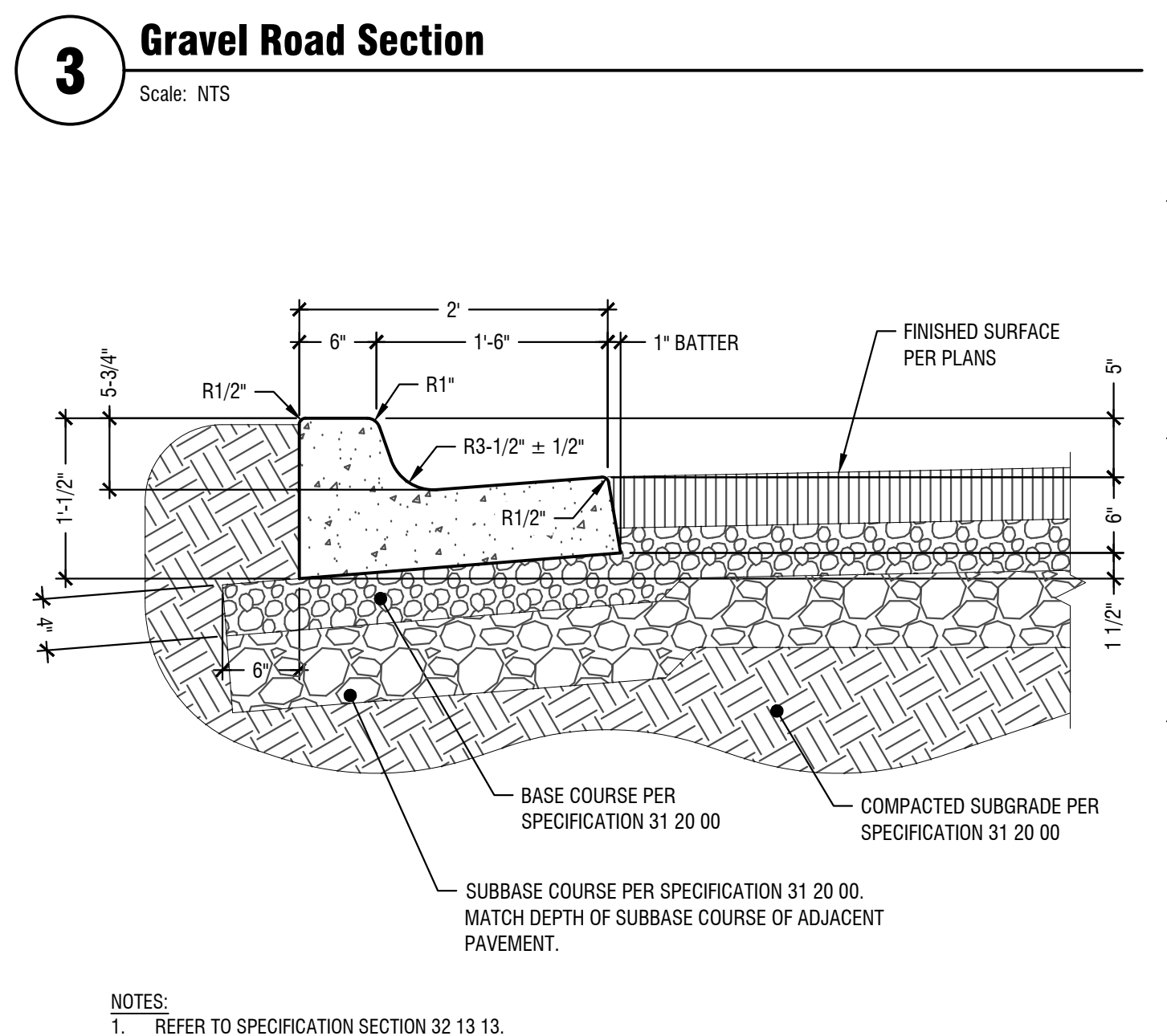
4 Heavy Duty Concrete Flatwork
Scale: NTS



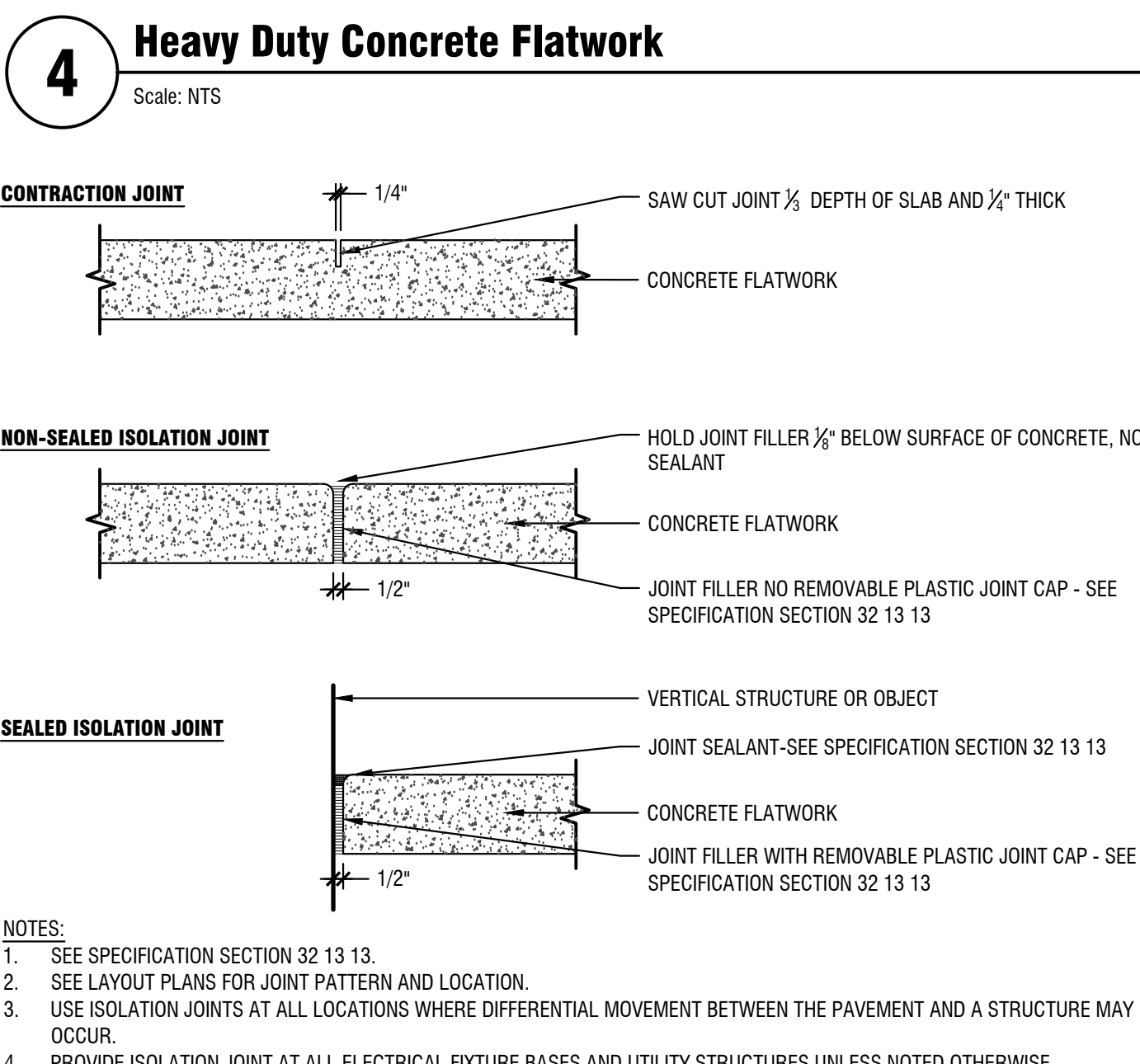
5 Infiltration Swale
Scale: NTS



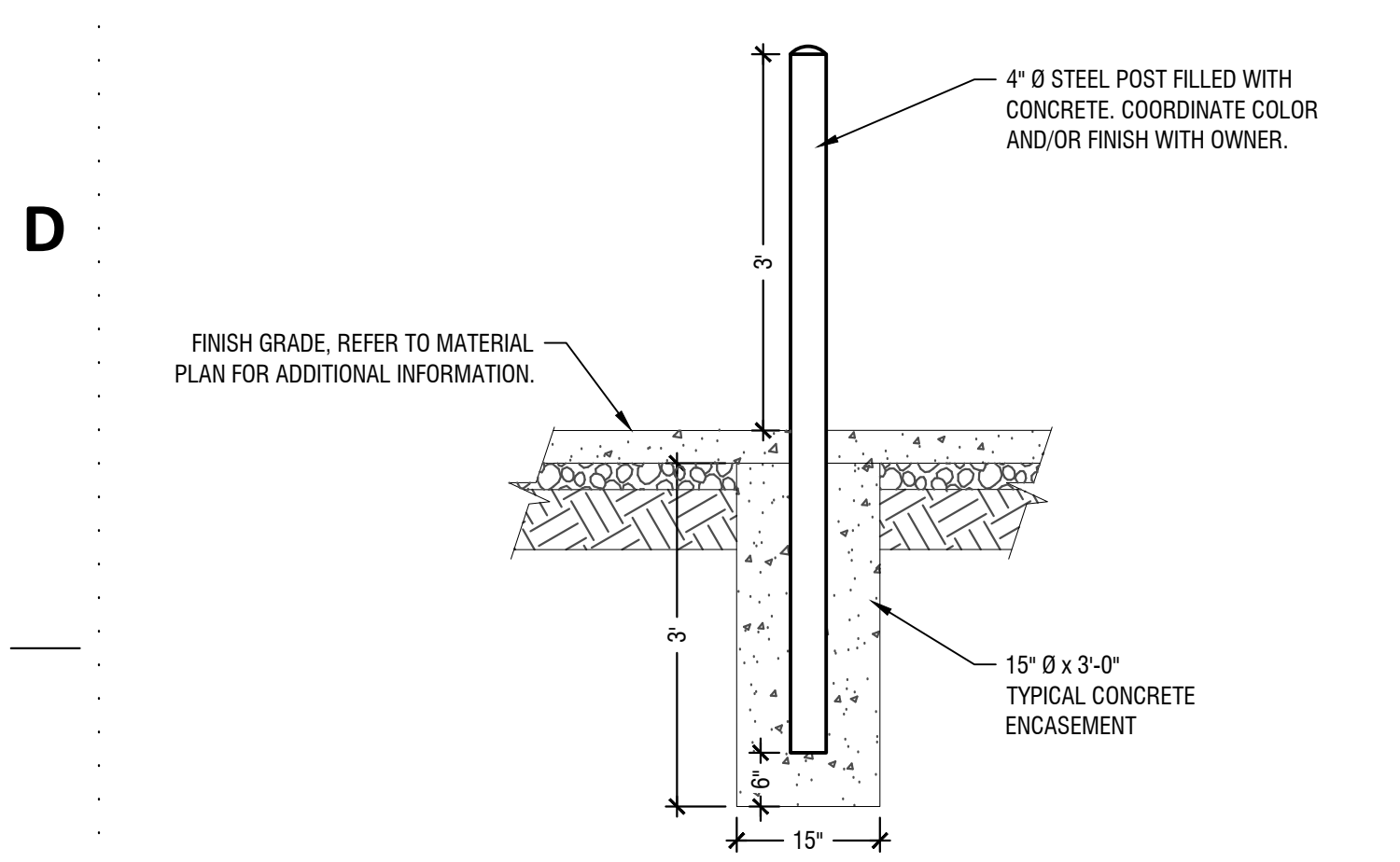
6 Curb & Reverse Plate Gutter
Scale: NTS



7 Curb & Catch Plate Gutter
Scale: NTS



8 Concrete Control Joints
Scale: NTS



9 Steel Site Bollard
Scale: NTS

NOTES:
1. JOINTS SHALL BE SPACED EVENLY THROUGHOUT FLATWORK, AS SHOWN ON DRAWINGS.
2. SEE SPECIFICATION SECTION 32 13 13. CONCRETE MIX SHALL INCLUDE MICRO-FIBER.
3. 24" LONG #4 PLAIN BAR EMBEDDED 6" INTO STEM WALL AT 18" O.C. AT ALL DOORS. DRILL STEM WALL FOR TIGHT FIT, NO EPOXY.

NOTES:
1. (2) BOLLARDS LOCATED AT FIRE HYDRANT:
1.1. SPACED 5.5-FT O.C. FROM HYDRANT



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Project:
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TRAINING FACILITY**
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions: Δ

Project No: 120104
Date: 02.04.2022
Checked By: ECBS
Drawn By: CRUL

Sheet Name:

Site Details

Sheet No:
C2.50

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1

2

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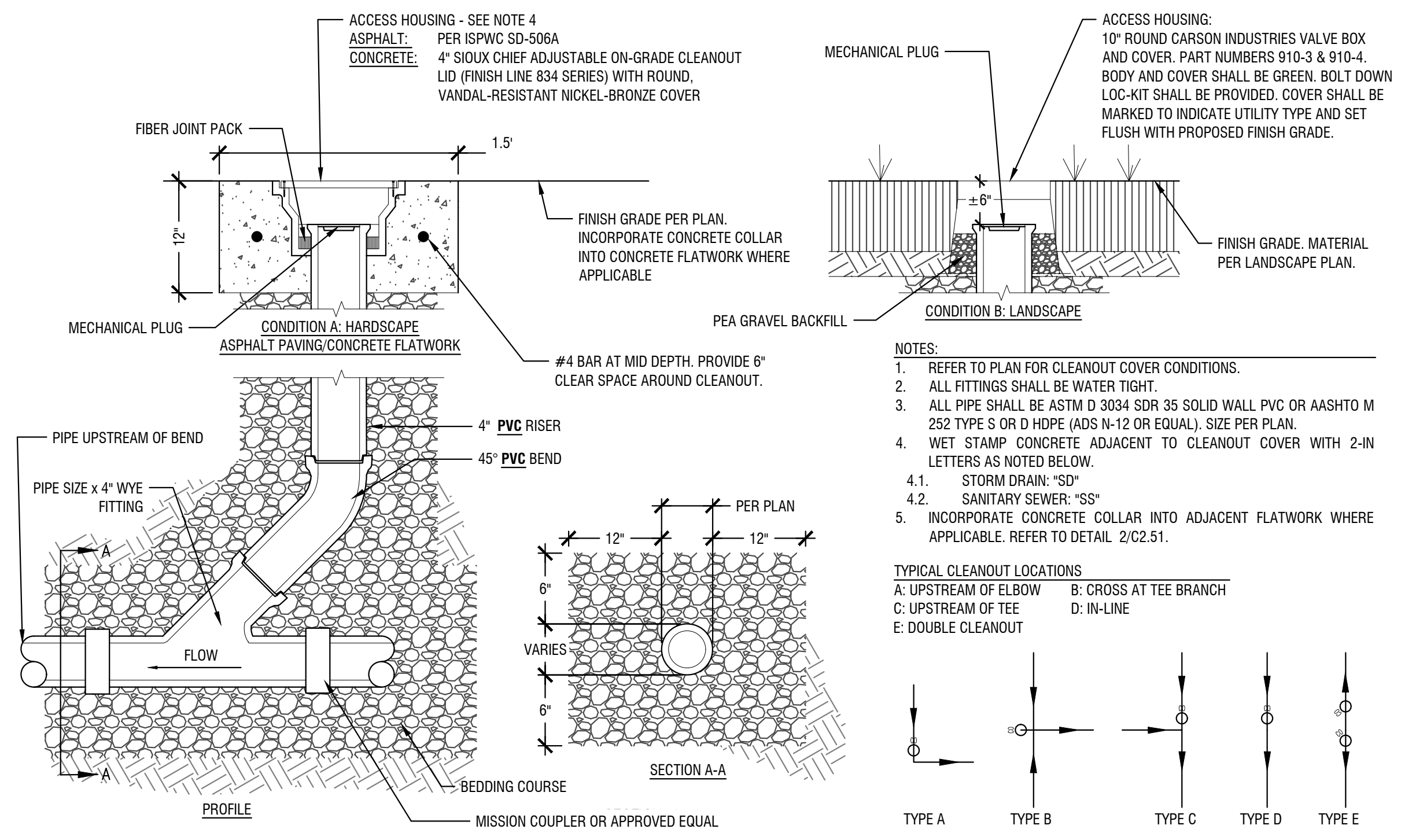
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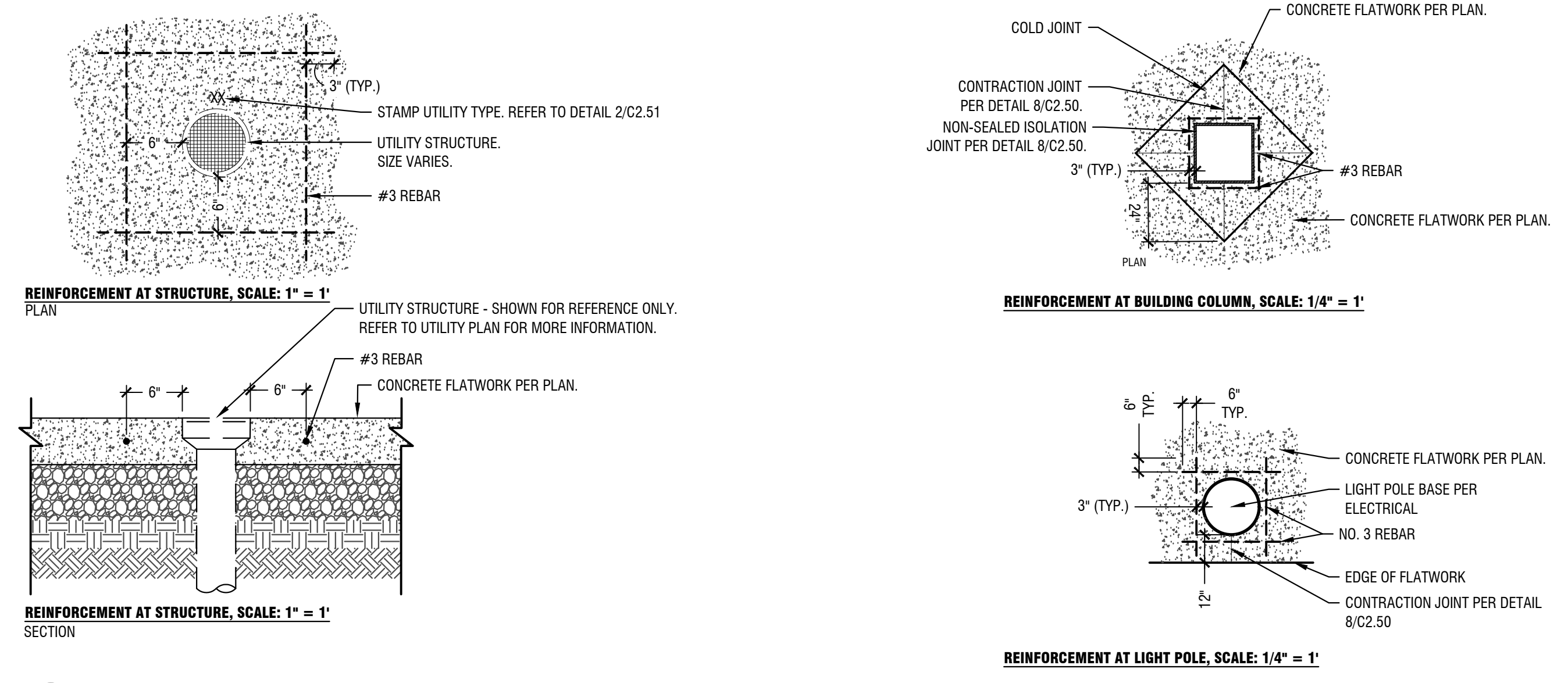
A

B

1 Cleanout Detail
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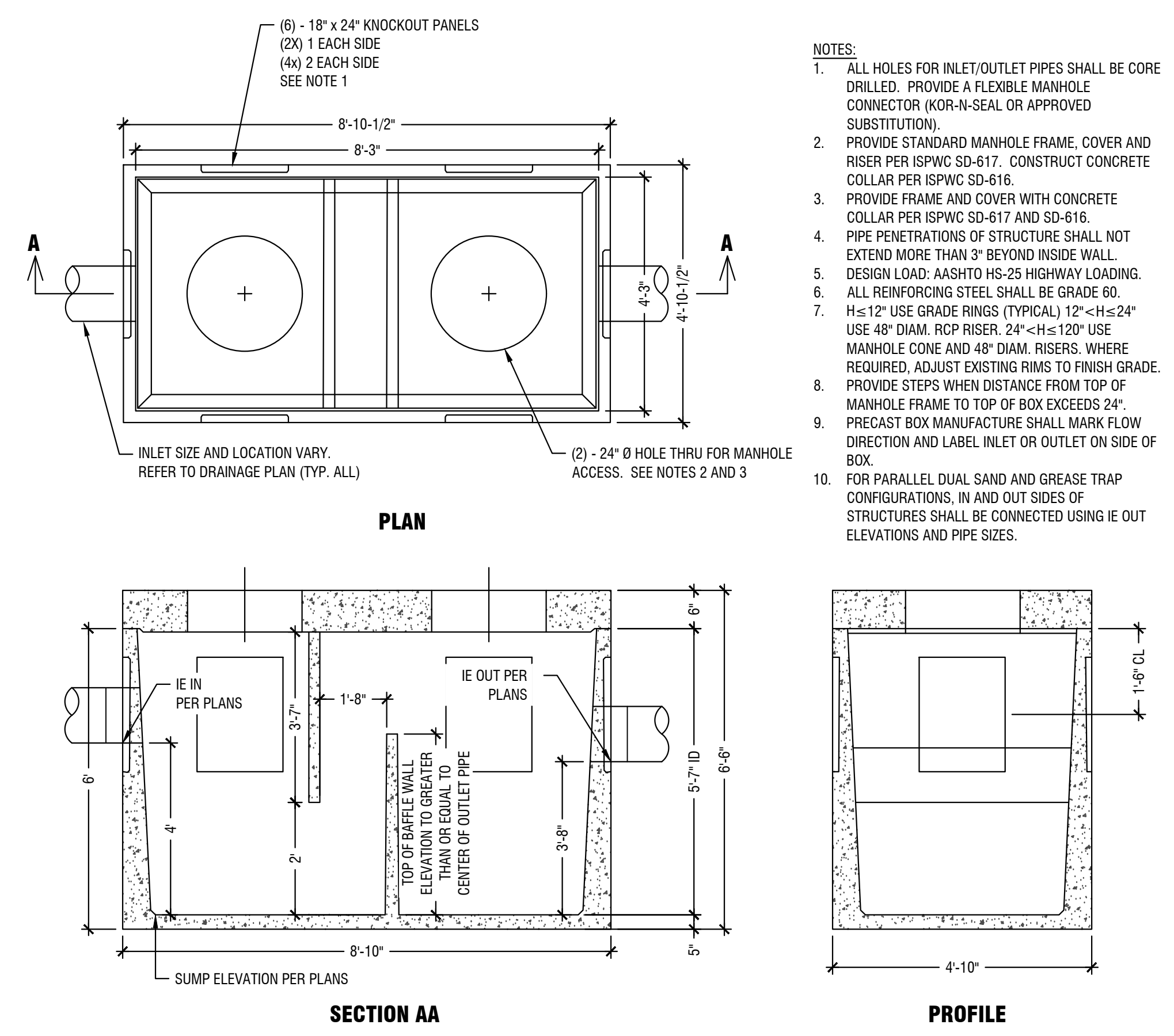
2 Flatwork Reinforcement
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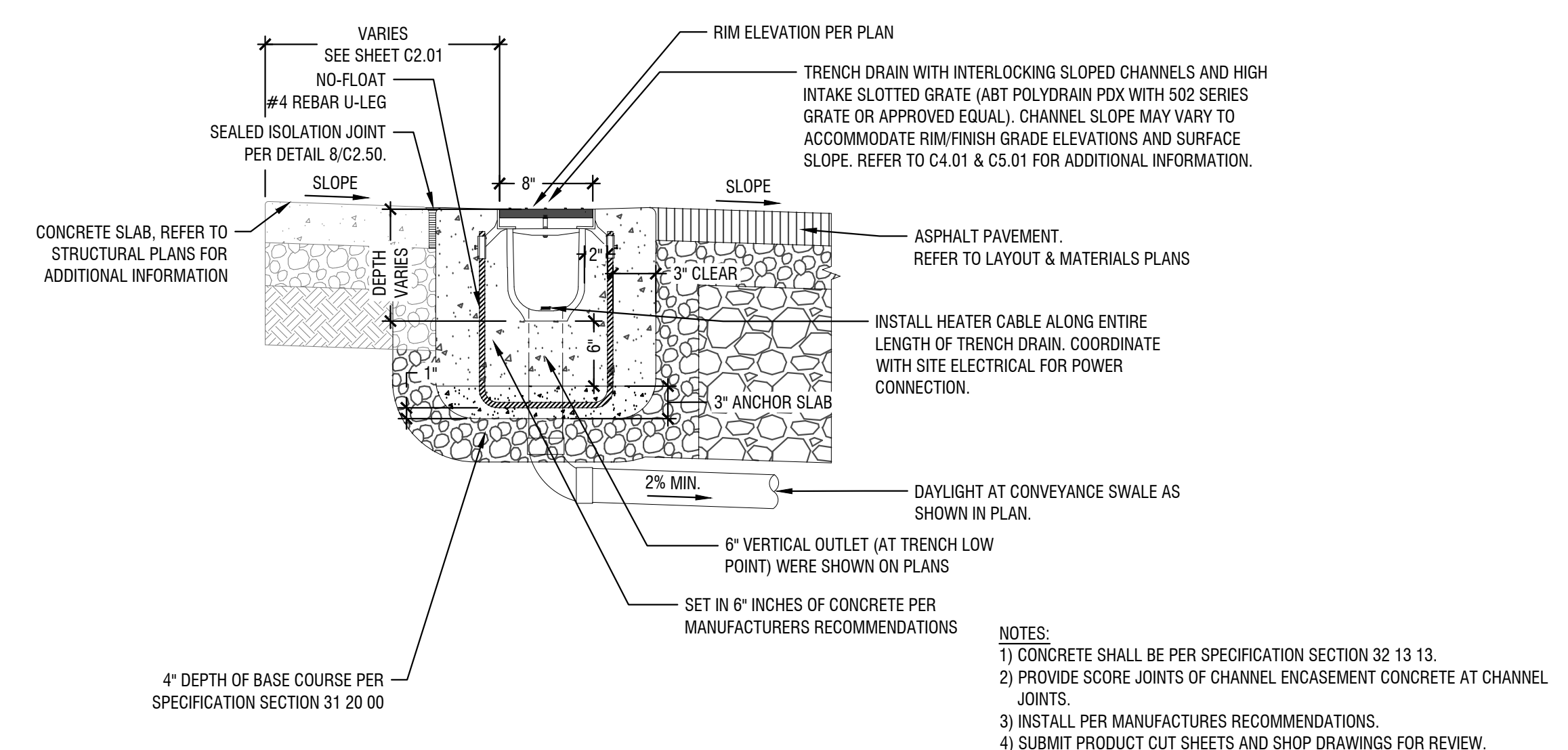
C

D

3 Oldcastle 1000 Gal. S/G Trap
Scale: NTS



4 Trench Drain Cross Section
Scale: NTS



E

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Project:
**TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE
TRAINING FACILITY**
430 VICTORY AVE
TWIN FALLS, ID 83301

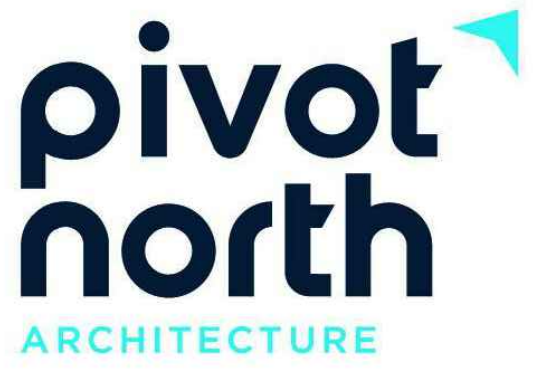
Revisions:

Project No: 120104
Date: 02.04.2022
Checked By: EC/BS
Drawn By: CRJL

Sheet Name:

Site Details

Sheet No:
C2.51



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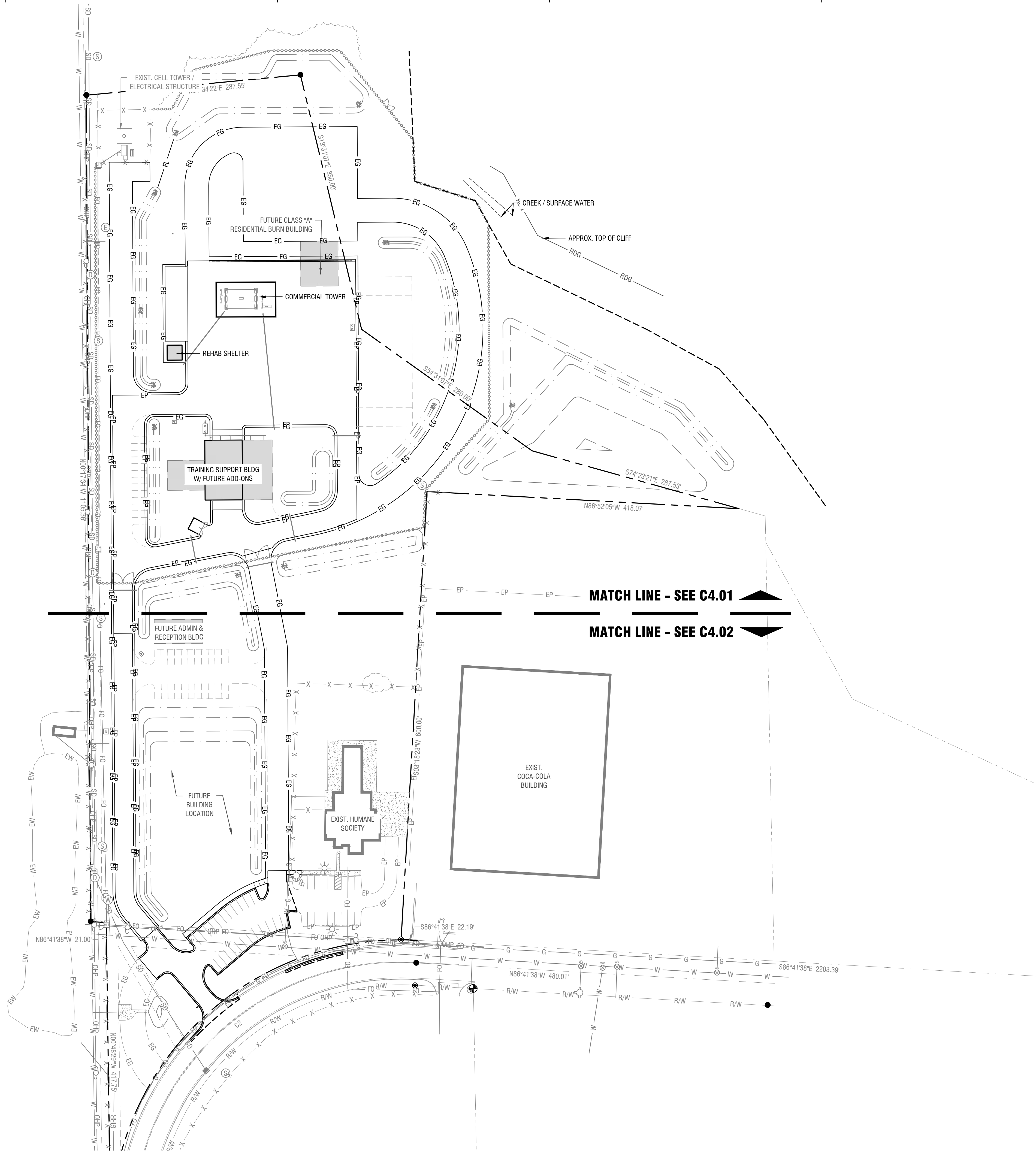
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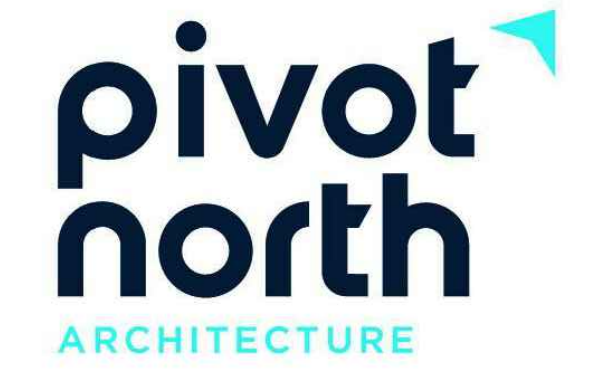
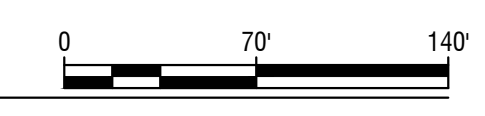
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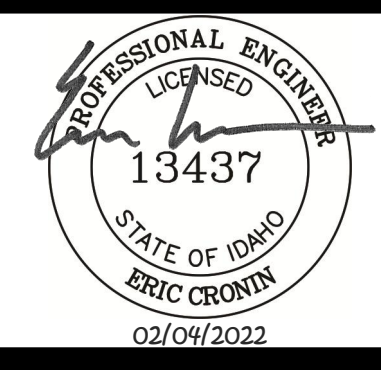
Site Grading Plan - Overall

Horizontal Scale: 1" = 70'



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430 VICTORY AVE
TWIN FALLS, ID 83301



Revisions:

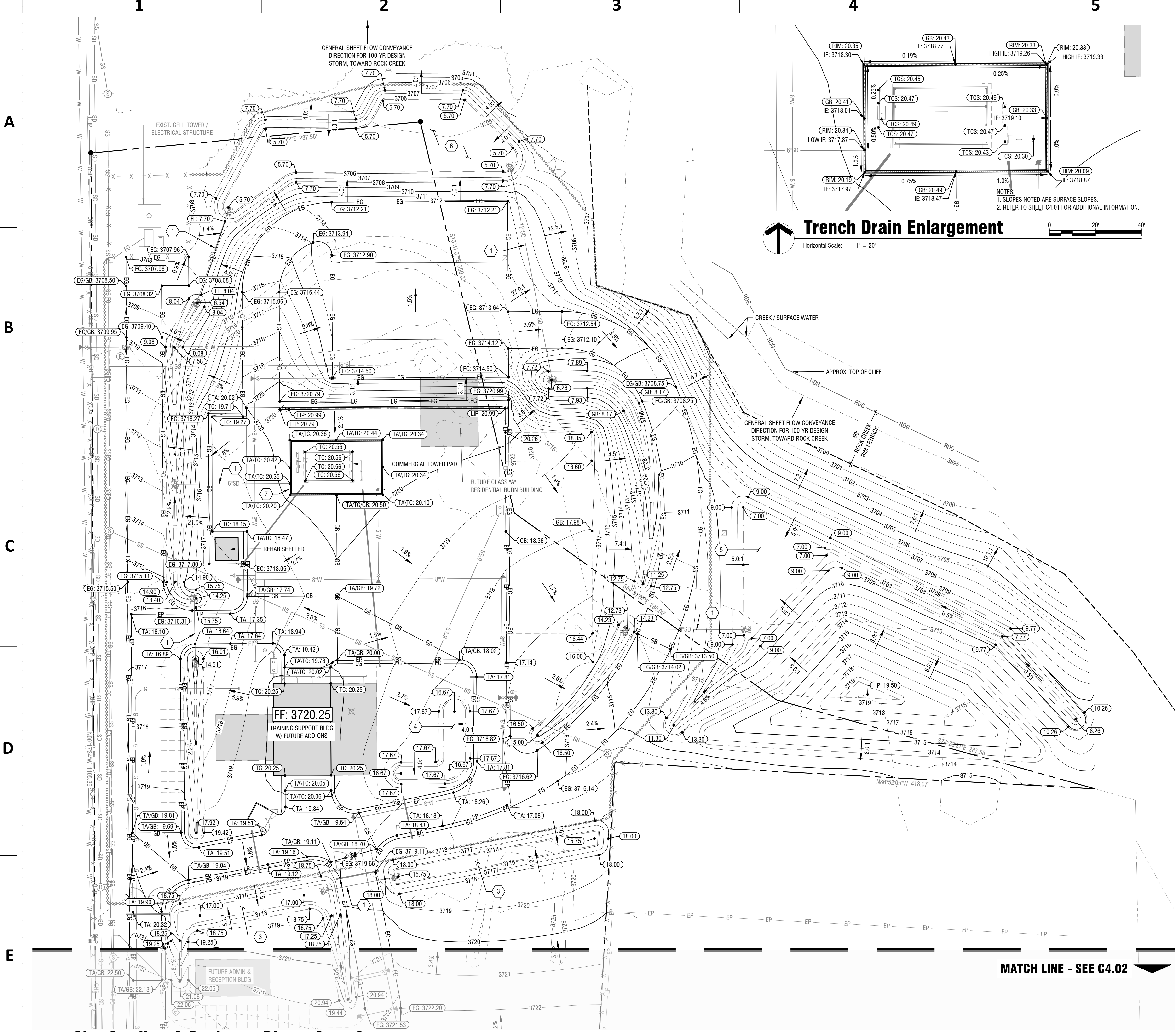
Project No:	120104
Date:	02.04.2022
Checked By:	ECBS
Drawn By:	CRUL

Sheet Name:

Site Grading Plan - Overall

Sheet No:

C4.00



Sheet Notes:

- CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C0.00.
- SPOT ELEVATIONS INDICATE FINISH GRADE OF TOP OR BOTTOM OF DRAINAGE SWALE, OR OTHER SURFACE AS INDICATED BY THE FOLLOWING ABBREVIATIONS:
 EG-EDGE OF GRAVEL
 FF-FINISH FLOOR
 FG-FINISH GRADE
 FL-FLOW LINE
 GB-GRADE BREAK
 HP-HIGH POINT
 LIP-LIP OF GUTTER
 TA-TOP OF ASPHALT
 TC-TOP OF CONCRETE
 TCS-TOP OF CONCRETE AT STAIR COLUMN
- EXISTING CONTOURS ARE AT 5-FT INTERVALS, PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
- ADD 3700' TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.
- ALL CORRUGATED METAL PIPE (CMP) AND COUPLING BANDS SHALL BE GALVANIZED

Keynotes:

- REFER TO SHEETS C5.01 & C5.02 FOR ADDITIONAL INFORMATION ON CULVERT INSTALLATION.
- BASIN A:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3716.00'
 ANTICIPATED BASALT ELEV. = 3717.51'
- BASIN B:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3714.54'
 ANTICIPATED BASALT ELEV. = 3712.34'
- BASIN C:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3715.67'
 ANTICIPATED BASALT ELEV. = 3710.67'
- BASIN D:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3705.97'
 ANTICIPATED BASALT ELEV. = 3704.47'
- BASIN E:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3705.97'
 ANTICIPATED BASALT ELEV. = 3703.32'
- SEE ENLARGEMENT FOR TRENCH DRAIN RIM ELEVATIONS.

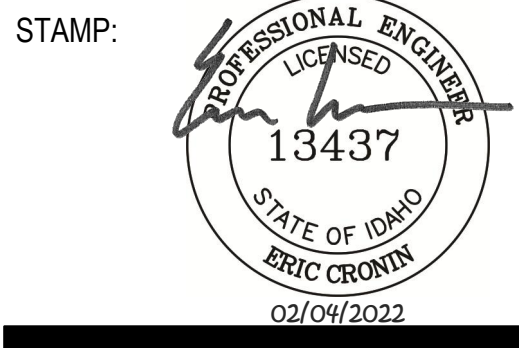
Grading Legend:

GRADE BREAK	— GB —
FLOW LINE	— FL —
TOP/TOE OF SLOPE	— S —
TOP/BOTTOM OF DRAINAGE SWALE OR BASIN	— SW —

PROPOSED PHASE 1 OR FUTURE BUILDING PAD. REFER TO SPECIFICATION SECTION 31 20.00 FOR EXCAVATION, SUBGRADE PREP AND BACKFILL REQUIREMENTS AT BUILDING FOUNDATIONS AND SLABS.



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 430 VICTORY AVE
 TWIN FALLS, ID 83301



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Revisions: Δ

Project No: 120104
 Date: 02.04.2022
 Checked By: EC/BS
 Drawn By: CRJL

Sheet Name:
**Site Grading &
 Drainage Plan - Area A**

Sheet No:
C4.01



Sheet Notes:

- CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C0.00.
- SPOT ELEVATIONS INDICATE FINISH GRADE OF TOP OR BOTTOM OF DRAINAGE SWALE, OR OTHER SURFACE AS INDICATED BY THE FOLLOWING ABBREVIATIONS:
 EG-EDGE OF GRAVEL
 FF-FINISH FLOOR
 FG-FINISH GRADE
 FL-FLOW LINE
 GB-GRADE BREAK
 HP-HIGH POINT
 LIP-LIP OF GUTTER
 TA-TOP OF ASPHALT
 TC-TOP OF CONCRETE
 TCS-TOP OF CONCRETE AT STAIR COLUMN
- EXISTING CONTOURS ARE AT 5-FT INTERVALS, PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
- ADD 3700' TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.
- ALL CORRUGATED METAL PIPE (CMP) AND COUPLING BANDS SHALL BE GALVANIZED

Keynotes:

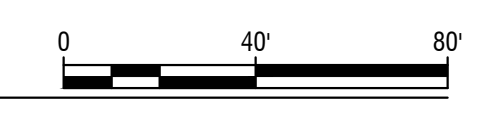
- REFER TO SHEETS C5.01 & C5.02 FOR ADDITIONAL INFORMATION ON CULVERT INSTALLATION.
- BASIN A:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3716.00'
 ANTICIPATED BASALT ELEV. = 3712.51'
- BASIN B:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3714.54'
 ANTICIPATED BASALT ELEV. = 3712.34'
- BASIN C:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3715.67'
 ANTICIPATED BASALT ELEV. = 3710.67'
- BASIN D:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3705.97'
 ANTICIPATED BASALT ELEV. = 3704.47'
- BASIN E:**
 ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3705.97'
 ANTICIPATED BASALT ELEV. = 3703.32'
- SEE ENLARGEMENT FOR TRENCH DRAIN RIM ELEVATIONS.

Grading Legend:

GRADE BREAK	— GB — GB —
FLOW LINE	— FL —
TOP/TOE OF SLOPE	— — — — —
TOP/BOTTOM OF DRAINAGE SWALE OR BASIN	— — — — —
PROPOSED PHASE 1 OR FUTURE BUILDING PAD. REFER TO SPECIFICATION SECTION 31 20 00 FOR EXCAVATION, SUBGRADE PREP AND BACKFILL REQUIREMENTS AT BUILDING FOUNDATIONS AND SLABS.	■

MATCH LINE - SEE C4.01

Site Grading & Drainage Plan - Area B
 Horizontal Scale: 1" = 40'



SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:

**TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY**
 430 VICTORY AVE
 TWIN FALLS, ID 83301

Revisions: △

Project No: 120104
 Date: 02.04.2022
 Checked By: ECBS
 Drawn By: CRUL

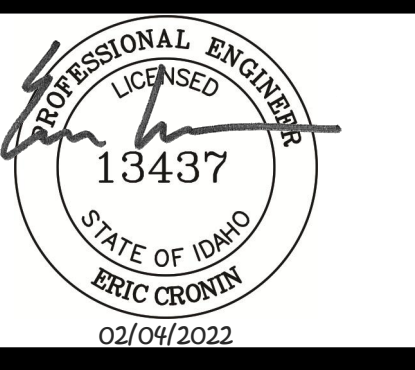
Sheet Name:
**Site Grading &
 Drainage Plan - Area B**

Sheet No:
C4.02



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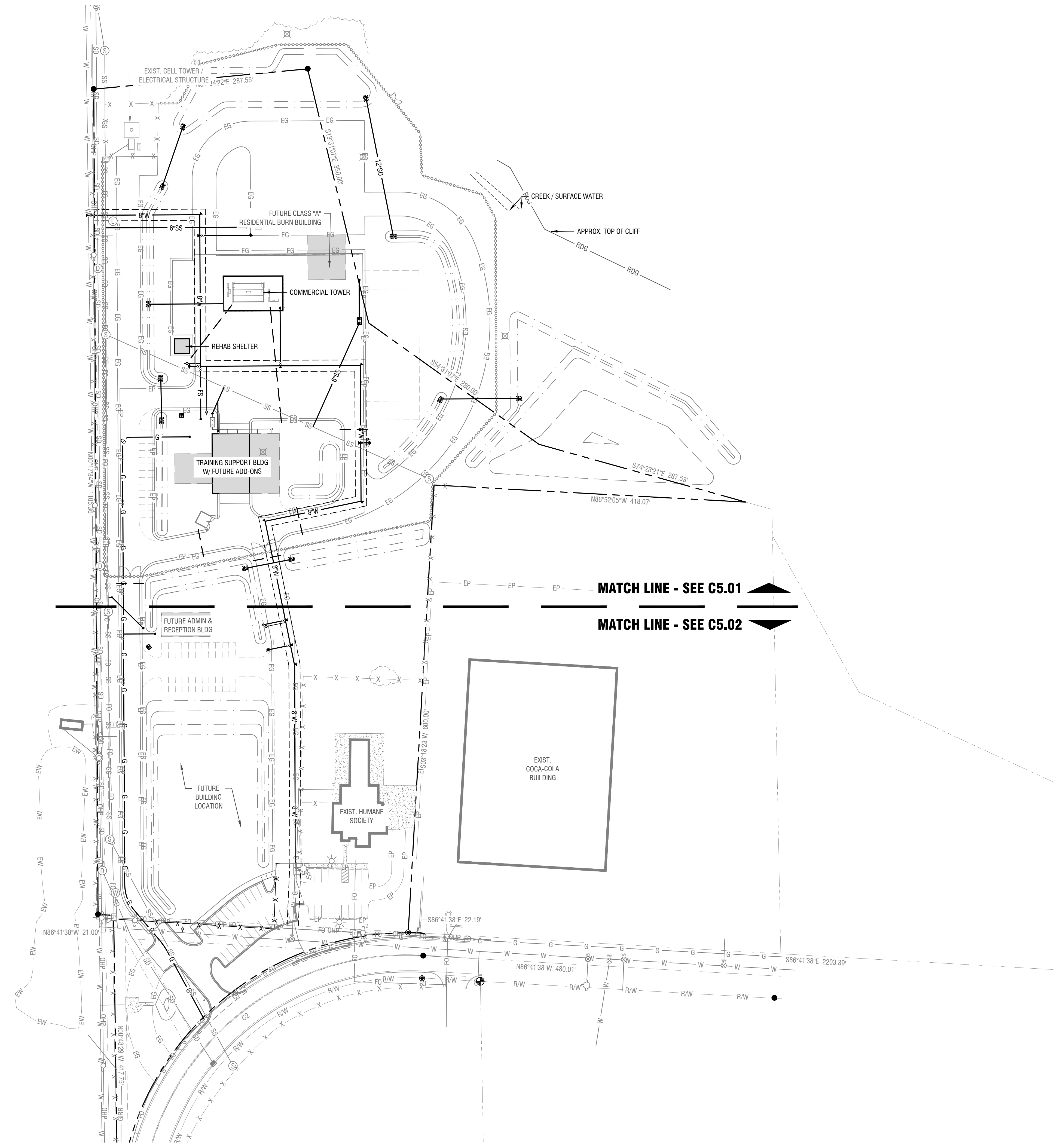
A

B

C

D

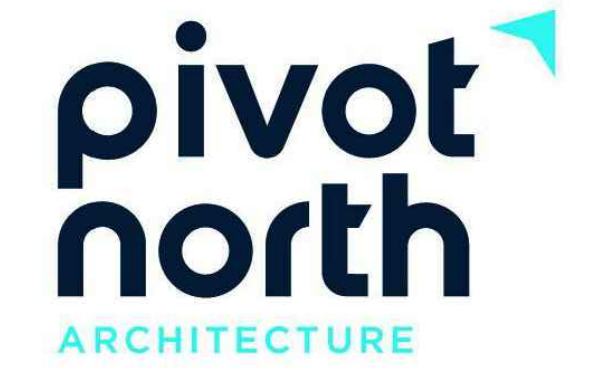
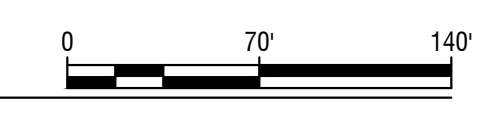
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MATCH LINE - SEE C5.01

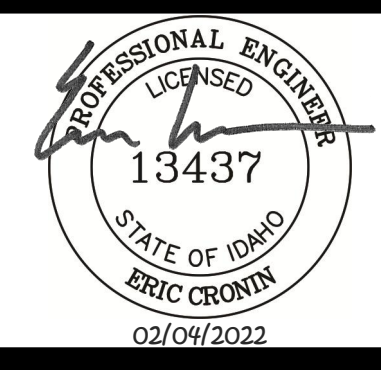
MATCH LINE - SEE C5.02

Site Utility Plan - Overall
 Horizontal Scale: 1" = 70'

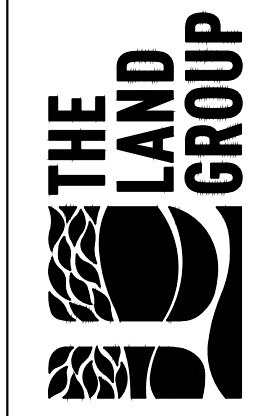


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Project:
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 TRAINING FACILITY
 430 VICTORY AVE
 TWIN FALLS, ID 83301



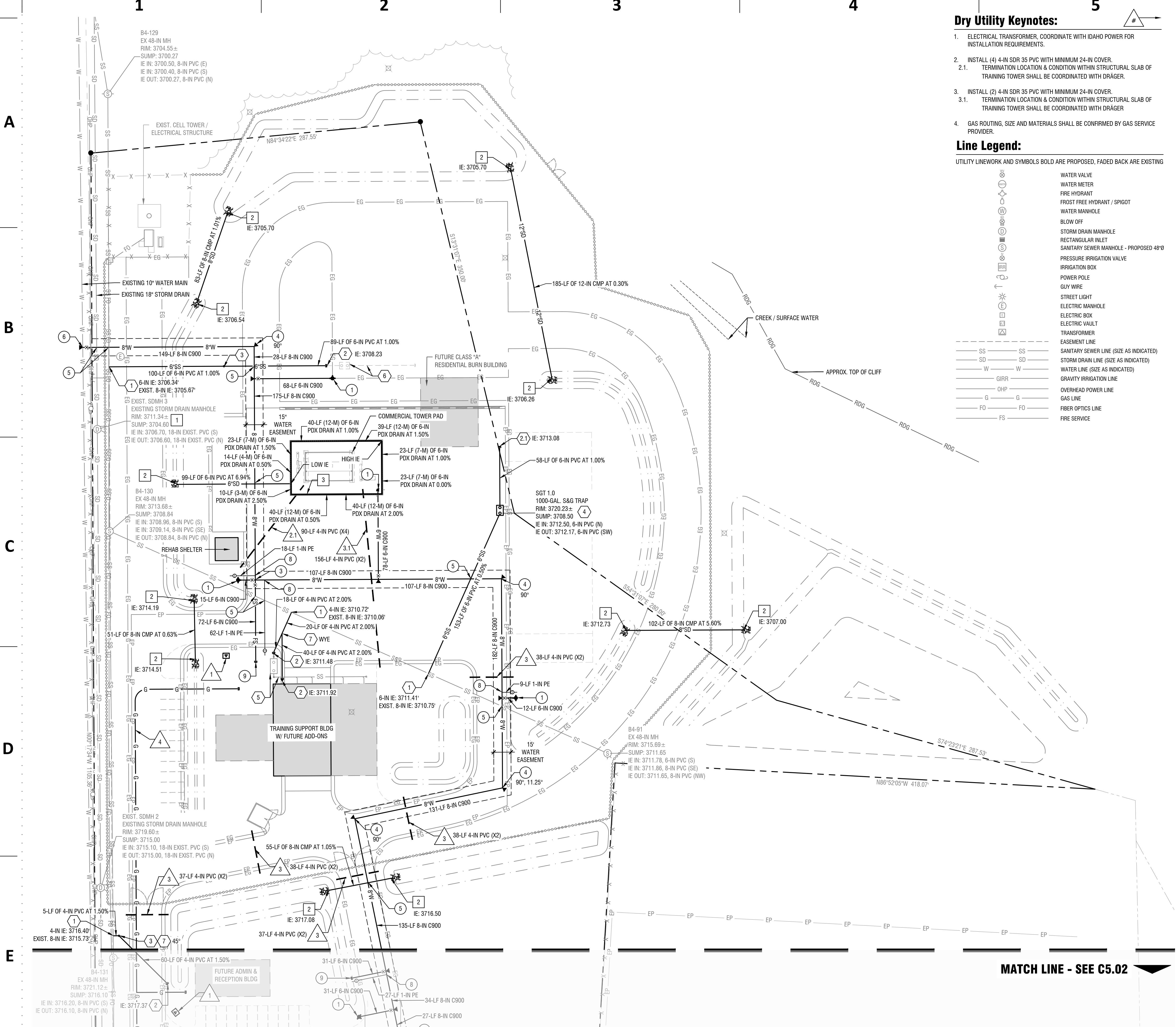
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Revisions: Δ

Project No:	120104
Date:	02.04.2022
Checked By:	ECBS
Drawn By:	CRUL

Sheet Name:
 Site Utility Plan - Overall

Sheet No:
C5.00



Dry Utility Keynotes:

- ELECTRICAL TRANSFORMER, COORDINATE WITH IDAHO POWER FOR INSTALLATION REQUIREMENTS.
- INSTALL (4) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
 - TERMINATION LOCATION & CONDITION WITHIN STRUCTURAL SLAB OF TRAINING TOWER SHALL BE COORDINATED WITH DRAGER.
- INSTALL (2) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
 - TERMINATION LOCATION & CONDITION WITHIN STRUCTURAL SLAB OF TRAINING TOWER SHALL BE COORDINATED WITH DRAGER.
- GAS ROUTING, SIZE AND MATERIALS SHALL BE CONFIRMED BY GAS SERVICE PROVIDER.

Line Legend:

UTILITY LINework AND SYMBOLS BOLD ARE PROPOSED, FADED BACK ARE EXISTING

	WATER VALVE
	WATER METER
	FIRE HYDRANT
	FROST FREE HYDRANT / SPIGOT
	WATER MANHOLE
	BLOW OFF
	STORM DRAIN MANHOLE
	RECTANGULAR INLET
	SANITARY SEWER MANHOLE - PROPOSED 48"
	PRESSURE IRRIGATION VALVE
	IRRIGATION BOX
	POWER POLE
	GUY WIRE
	STREET LIGHT
	ELECTRIC MANHOLE
	ELECTRIC BOX
	ELECTRIC VAULT
	TRANSFORMER
	EASEMENT LINE
	SANITARY SEWER LINE (SIZE AS INDICATED)
	STORM DRAIN LINE (SIZE AS INDICATED)
	WATER LINE (SIZE AS INDICATED)
	GRAVITY IRRIGATION LINE
	OVERHEAD POWER LINE
	GAS LINE
	FIBER OPTICS LINE
	FIRE SERVICE

Sheet Notes:

- CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION NOTES, ON PLAN SHEET C0.00.
- REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- COORDINATE INSTALLATION OF ELECTRICAL CONDUITS AND IRRIGATION SLEEVES WITH RESPECTIVE DRAWINGS AND CONTRACTORS.
- REFER TO TOPOGRAPHIC SURVEY, PLAN SHEET C1.00 FOR ADDITIONAL INFORMATION.
- UTILITY CONTRACTORS ARE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TIE IN POINTS PRIOR TO CONSTRUCTION. IF CONFLICTS OR DISCREPANCIES EXIST, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR ADDITIONAL DIRECTION.
- DRY UTILITY LOCATIONS ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR ROUTING, COORDINATION WITH ARCHITECT, MECHANICAL AND ELECTRICAL ENGINEERING CONSULTANTS WILL BE REQUIRED TO UNDERSTAND PROPOSED LOADS AND SITE LIGHTING NEEDS.
- REFER TO SITE GRADING PLAN SHEET C4.00 FOR FINISH GRADING INFORMATION.
- PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.
- BOTH DOMESTIC AND FIRE SERVICE WATER LINES REQUIRE A BACKFLOW PREVENTION DEVICE AT THE POINT OF ENTRY TO THE BUILDING OR PROP. THE TYPE OF DEVICE IS CONTINGENT ON THE DEGREE OF HAZARD AND MUST MEET IDAHO DEQ STANDARDS.
- ALL WATER SERVICE LINES SHALL BE CONSTRUCTED WITH MINIMUM CLASS 200 POLYETHYLENE PIPE CONFORMING TO AWWA C-901.
- ALL WATER DISTRIBUTION MAINS INCLUDING FIRE SERVICE LATERALS SHALL BE CONSTRUCTED WITH CLASS 165 PVC PIPE CONFORMING TO AWWA C-900.
- ALL PVC STORM DRAIN OR SEWER PIPE SHALL BE ASTM D3034 SDR-35 PVC. ALL CORRUGATED METAL PIPE (CMP) AND COUPLING BANDS SHALL BE GALVANIZED AND CONFORM TO AASHTO M36 AND AASHTO M213.
- ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.
- THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER SERVICES OR POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).

Water Keynotes:

- INSTALL FIRE HYDRANT PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-404.
- NOT USED.
- INSTALL 1-8" CROSS, 2-8"x6" REDUCERS, 2-6" GATE VALVES AND THRUST BLOCK PER ISPPWC SD-403.
- INSTALL 8" BEND(S) WITH ANGLE(S) NOTED (XX°) AND THRUST BLOCK PER ISPPWC SD-403.
- POTABLE/NON-POTABLE WATER SEPARATION REQUIRED. SEE SHEET NOTE N/THIS SHEET.
- HOT-TAP EXISTING 10-IN WATER MAIN FOR 8-IN GATE VALVE AND MAIN LINE. INSTALL THRUST BLOCKING PER ISPPWC SD-403.
- CONNECT TO EXISTING WATER STUB, CONFIRM SUITABILITY OF CONNECTION PRIOR TO COMMENCING CONSTRUCTION, BRING ANY DISCREPANCIES TO ENGINEER.
- INSTALL 1-IN WATER SERVICE CONNECTION & 1-IN CITY-APPROVED WATER METER PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-401.
- CAP FIRE SERVICE STUB WATER TIGHT AND MARK ABOVE GRADE, SIMILAR TO ISPPWC SD-512.

Sewer Keynotes:

- TAP EXISTING 8" SEWER MAIN IN ACCORDANCE WITH CITY OF TWIN FALLS STANDARD DRAWING TFSD-511.
- CAP WATER TIGHT AND MARK SEWER STUB PER ISPPWC SD-512.
 - OMIT ABOVE GRADE MARKER.
- INSTALL CLEANOUT PER DETAIL 1/C2.51.
- INSTALL 1000-GALLON SAND & GREASE TRAP PER DETAIL 3/C2.51.
- FUTURE FLAMMABLE LIQUIDS INTERCEPTOR AND ASSOCIATED PIPING.
- FUTURE SAND AND GREASE TRAP AND ASSOCIATED PIPING.
- INSTALL 4" BEND/FITTING AS NOTED.

Storm Drain Keynotes:

- EXISTING STORM DRAIN MANHOLE INFORMATION WAS NOT AVAILABLE AT TIME OF INITIAL SURVEY. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCING WORK SHOULD CONNECTIONS BE MADE IN THE FUTURE.
- INSTALL FLARED END SECTION ON CULVERT, PROVIDE D₉₀ = 0.50 RIP-RAP AT 3-FT BEYOND PIPE INVERT AND 1-FT ON EITHER SIDE OF PIPE. RIP-RAP SHALL BE SET FLUSH WITH PROPOSED FINISH GRADE AT INVERT.
- INSTALL TRENCH DRAIN PER DETAIL 4/C2.51. REFER TO C4.01 FOR ADDITIONAL INFORMATION. COORDINATE WITH COMMERCIAL TOWER PLANS FOR INTERNAL DRAIN(S) LOCATIONS, CONNECT INTERNAL DRAIN(S) TO TRENCH DRAIN.

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Project:
**TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY**
 430 VICTORY AVE
 TWIN FALLS, ID 83301

Revisions:

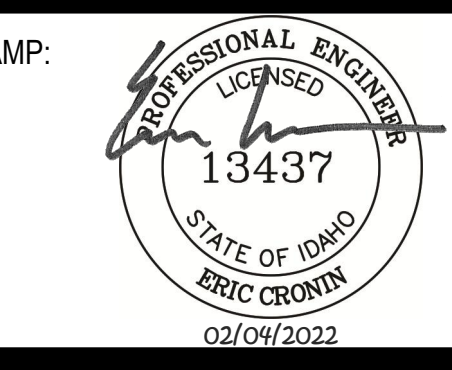
Project No: 120104
 Date: 02.04.2022
 Checked By: ECBS
 Drawn By: CRUL

Sheet Name:
Site Utility Plan - Area A

Sheet No:
C5.01

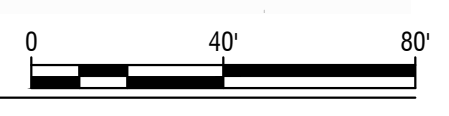


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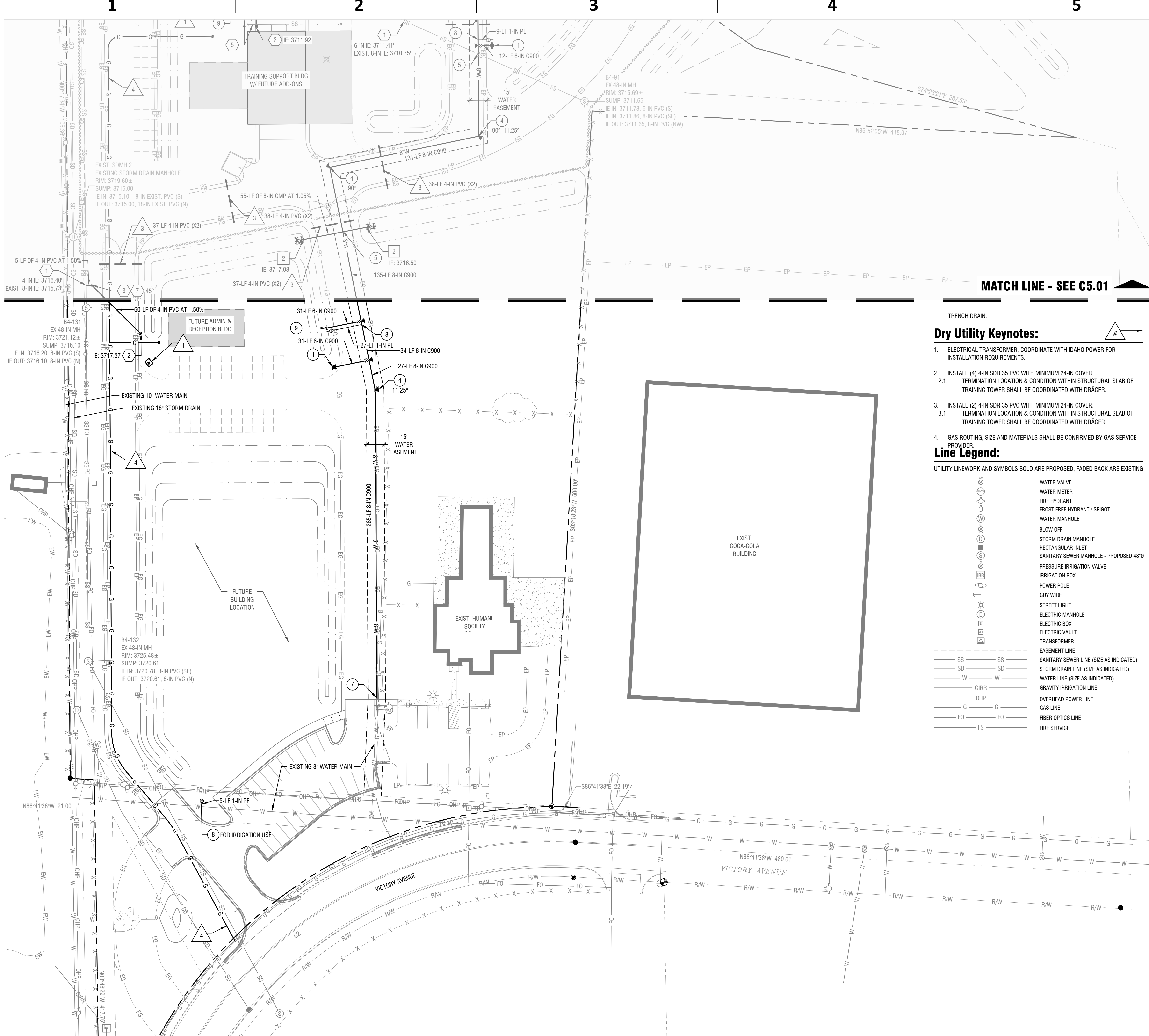


Site Utility Plan - Area A

Horizontal Scale: 1" = 40'

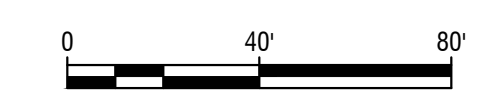


MATCH LINE - SEE C5.02



Site Utility Plan - Area B

Horizontal Scale: 1" = 40'



Sheet Notes:

- A. CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION NOTES, ON PLAN SHEET C0.00.
- B. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- C. COORDINATE INSTALLATION OF ELECTRICAL CONDUITS AND IRRIGATION SLEEVES WITH RESPECTIVE DRAWINGS AND CONTRACTORS.
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- I. BOTH DOMESTIC AND FIRE SERVICE WATER LINES REQUIRE A BACKFLOW PREVENTION DEVICE AT THE POINT OF ENTRY TO THE BUILDING OR PROP. THE TYPE OF DEVICE IS CONTINGENT ON THE DEGREE OF HAZARD AND MUST MEET IDAHO DEQ STANDARDS.
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Line Legend:

	WATER VALVE
	WATER METER
	FIRE HYDRANT
	FROST FREE HYDRANT / SPIGOT
	WATER MANHOLE
	BLOW OFF
	STORM DRAIN MANHOLE
	RECTANGULAR INLET
	SANITARY SEWER MANHOLE - PROPOSED 48"
	PRESSURE IRRIGATION VALVE
	IRRIGATION BOX
	POWER POLE
	GUY WIRE
	STREET LIGHT
	ELECTRIC MANHOLE
	ELECTRIC BOX
	ELECTRIC VAULT
	TRANSFORMER
	EASEMENT LINE
	SANITARY SEWER LINE (SIZE AS INDICATED)
	STORM DRAIN LINE (SIZE AS INDICATED)
	WATER LINE (SIZE AS INDICATED)
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	OVERHEAD POWER LINE
	GAS LINE
	FIBER OPTICS LINE
	FIRE SERVICE

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Project:
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 JIM BIERI REGIONAL FIRE
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 TWIN FALLS, ID 83301

Revisions:

Sheet No.:
 C5.02

Sheet No.:
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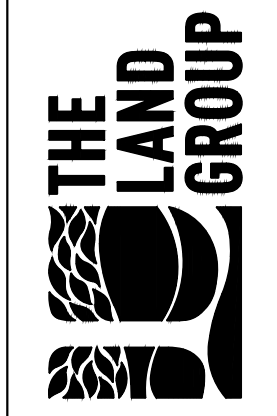
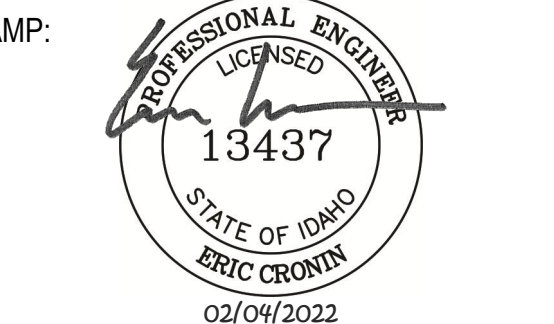
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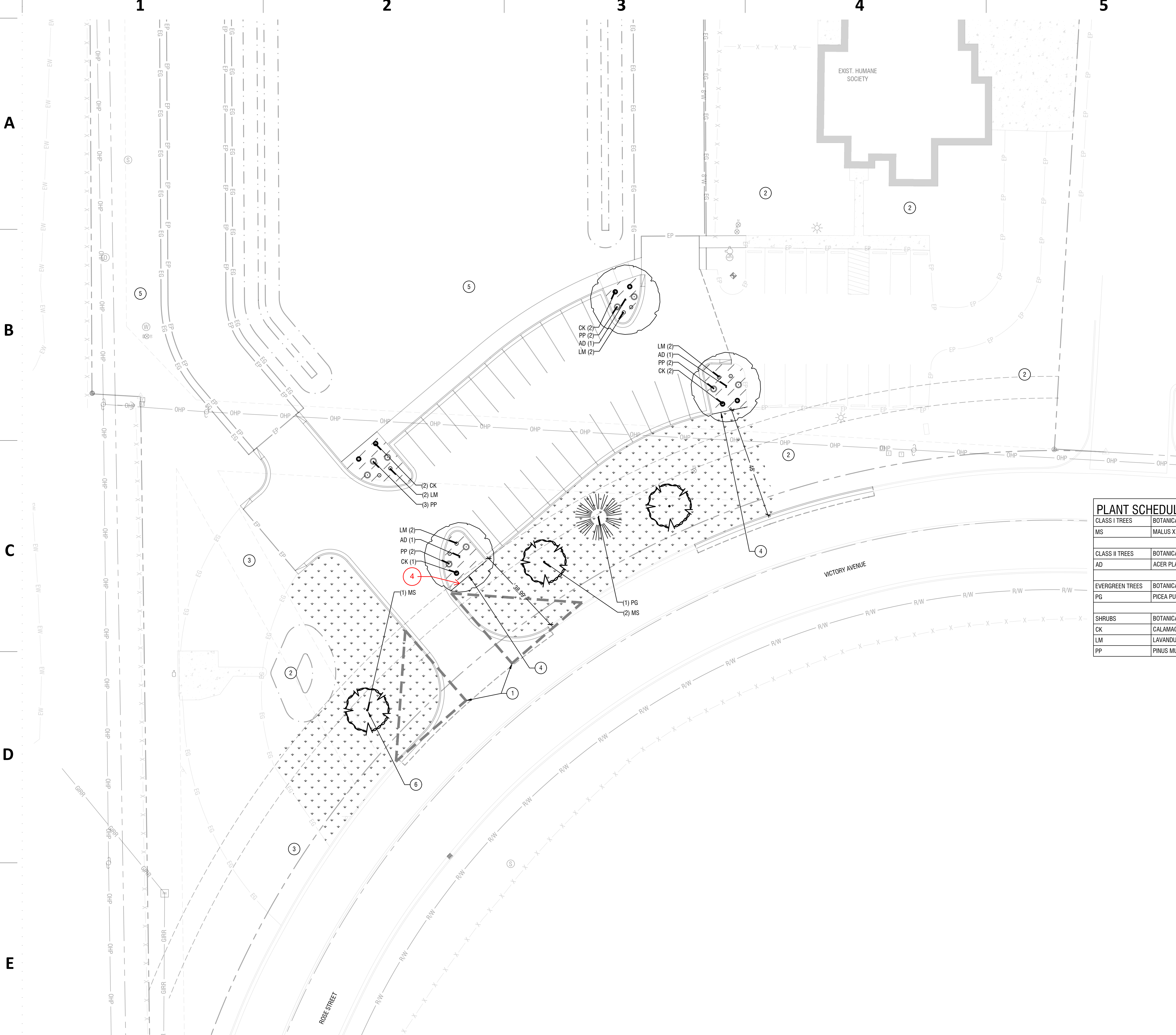
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Project Information:

PROJECT DEVELOPMENT TYPE: COMMERCIAL
 EXISTING SITE ZONING: M-2; HEAVY MANUFACTURING DISTRICT
 PROJECT SITE ZONING: UNCHANGED, M-2 WILL REMAIN
 PROJECT STREET FRONTAGES: VICTORY AVENUE & ROSE STREET

Sheet Notes:

- COORDINATE WITH TODD ANDERSEN AT TWIN FALLS PARKS AND RECREATION FOR LANDSCAPE SPECIFICATIONS.
- REFER TO SHEET L1.50 FOR DETAILS AND NOTES.

Landscape Requirements:

PER THE TWIN FALLS, IDAHO CODE:
 PROPERTY DEVELOPMENT STANDARDS - LANDSCAPING (10-4-10.3-F)
 NONRESIDENTIAL USES SHALL PROVIDE LANDSCAPING EQUAL TO TWO (2) SQUARE FEET PER LINEAL FOOT OF FRONTAGE AND SHALL BE PLACED BETWEEN THE BUILDING AND THE STREET.

LINEAL FOOT OF FRONTAGE	SQ. FT. REQUIRED	SQ. FT. PROVIDED
638.58 FT.	1277.16 SQ. FT.	21011.04 SQ. FT. (+/- 8322.55 OF 21011.04 SQ. FT. IS EXISTING)

INTERIOR LANDSCAPING REQUIREMENTS (10-10-11-B)
 ONE TREE PER TERMINUS PARKING ISLAND.

ISLANDS	TREES REQUIRED	TREES PROVIDED
4	4 TREES	3 TREES*

*ONE LESS TREE PROVIDED DUE TO SITE UTILITY AND ASSOCIATED EASEMENT. HOWEVER, ONE (1) MORE TREE LOCATED ON SITE TO ACCOMMODATE FOR LOSS. REFER TO KEYNOTE 6.

Material Legend:

	80/20 KENTUCKY BLUEGRASS/PERENNIAL RYEGRASS BLEND TURF SOD		3-IN DEPTH, SHREDDED BARK MULCH
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Keynotes:

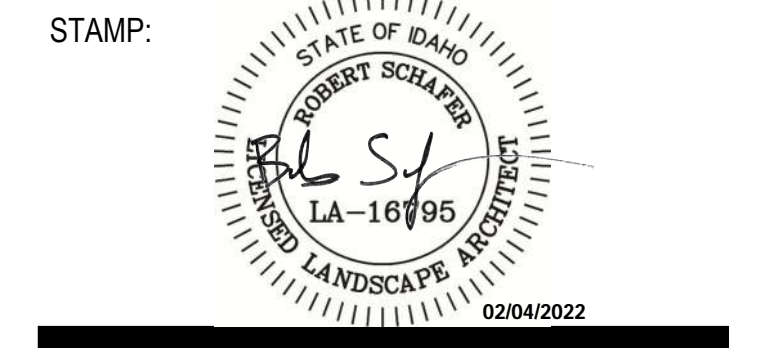
- 40-FT X 40-FT SITE VISION TRIANGLE
- RETAIN AND PROTECT EXISTING LANDSCAPE
- RETAIN AND PROTECT EXISTING GRAVEL ACCESS
- LANDSCAPE EDGING. SEE DETAIL 4-L1.50
- FUTURE LANDSCAPE IMPROVEMENTS PER SEPARATE BUILDING PERMIT.
- REQUIRED TERMINUS PARKING ISLAND TREE LOCATED AT THIS LOCATION PER SITE UTILITY CONSTRAINTS.

PLANT SCHEDULE

CLASS / TREES	BOTANICAL / COMMON NAME	SIZE	CONTAINER
MS	MALUS X 'SPRING SNOW' / SPRING SNOW CRABAPPLE	2" CAL.	B&B
AD	ACER PLATANOIDES 'DEBORAH' / DEBORAH NORWAY MAPLE	2" CAL.	B&B
PG	PICEA PUNGENS 'GLAUCA' / BLUE COLORADO SPRUCE	6" HT.	B&B
PP	PINUS MUGO VAR. 'PUMILIO' / MUGO PINE	3 GAL.	
LM	LAVANDULA ANGUSTIFOLIA 'MUNSTEAD' / MUNSTEAD ENGLISH LAVENDER	1 GAL.	
CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	1 GAL.	



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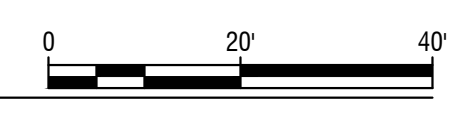
Project:
 TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY
 430 VICTORY AVE
 TWIN FALLS, ID 83301

Revisions:

Project No: 120104
 Date: 02.04.2022
 Checked By: ECBS
 Drawn By: CRUL

Sheet Name:
 Landscape Plan

Sheet No:
 L1.00



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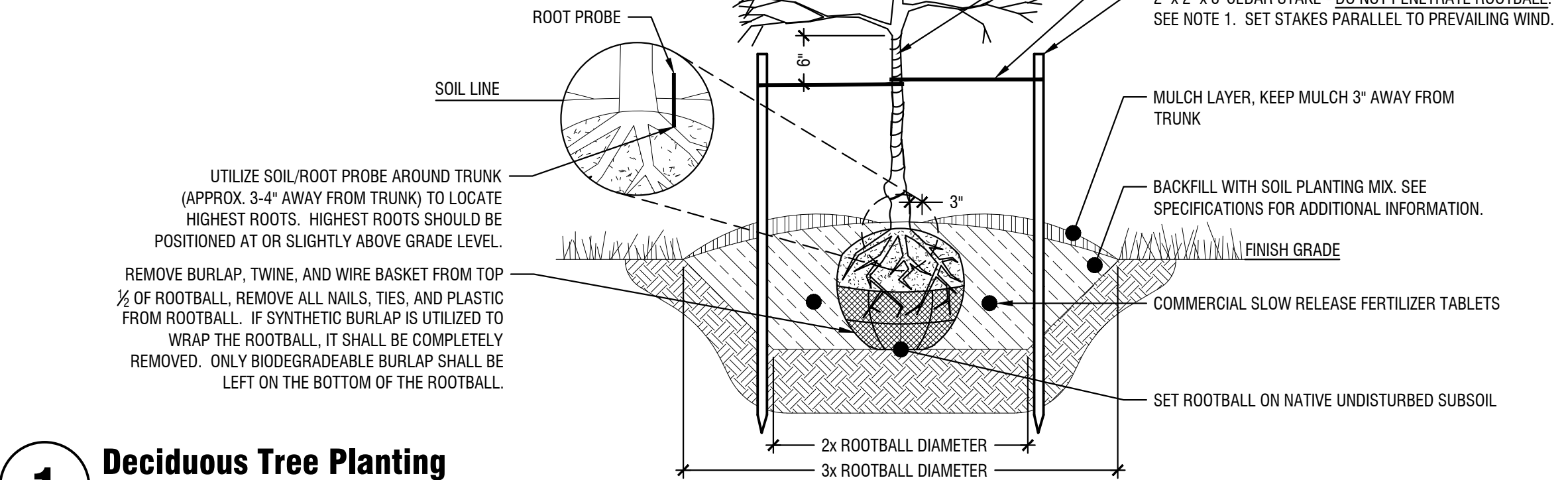


Landscape Notes:

- A. CONTRACTOR SHALL REPORT TO LANDSCAPE ARCHITECT ALL CONDITIONS WHICH IMPAIR AND/OR PREVENT THE PROPER EXECUTION OF THIS WORK, PRIOR TO BEGINNING WORK.
- B. FINISH GRADES TO BE SMOOTH AND EVEN GRADIENTS WITH POSITIVE DRAINAGE IN ACCORDANCE WITH SITE GRADING PLAN. REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. PLACE 3" OF SHREDDED BARK MULCH OVER SUBGRADE SOIL TO ACHIEVE FINISH GRADE. FINISH GRADE RELATED TO ADJACENT SITE ELEMENTS SHALL BE:
 - B.A. 1-INCH BELOW TOP OF ADJACENT PAVEMENT, VALVE BOX, VAULT, ETC.
 - B.B. 3-INCHES BELOW TOP OF CURB UNLESS NOTED OTHERWISE.
- C. ALL PLANTING BEDS SHALL HAVE A MINIMUM OF 18" OF TOPSOIL, SOD AREAS A MINIMUM OF 12" OF TOPSOIL. SPREAD, COMPACT AND FINE GRADE TOPSOIL TO A SMOOTH AND UNIFORM GRADE.
- D. RE-USE EXISTING SURFACE TOPSOIL WHERE POSSIBLE. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL MEETING REQUIREMENTS AND AMEND WHEN NECESSARY. TOPSOIL SHALL BE A LOOSE, FRIABLE, SANDY LOAM, CLEAN AND FREE OF TOXIC MATERIALS, NOXIOUS WEEDS, WEED SEEDS, ROCKS, GRASS OR OTHER FOREIGN MATERIAL AND A PH OF 5.5 TO 7.0. IF ON-SITE TOPSOIL DOES NOT MEET THESE MINIMUM STANDARDS, CONTRACTORS ARE RESPONSIBLE TO EITHER: A) PROVIDE APPROVED IMPORTED TOPSOIL, OR B.) IMPROVE ON-SITE TOPSOIL WITH METHODS APPROVED BY LANDSCAPE ARCHITECT. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. CLEAN TOPSOIL OF ROOTS, PLANTS, SODS, STONES, CLAY LUMPS AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
- E. IF IMPORTED TOPSOIL FROM OFF-SITE SOURCES IS REQUIRED, PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
- F. OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN 4 INCHES.
- G. ALL LANDSCAPE AREAS SHALL BE WEED FREE AT THE TIME OF LANDSCAPE INSTALLATION REMOVE ALL ROOTS, WEEDS, ROCKS AND FOREIGN MATERIAL ON THE SURFACE.
- H. NEW TREE PLANTING, SEE SHEET L1.50. CONTRACTOR SHALL STAKE ALL TREES DEEMED NECESSARY, I.E., FROM BEING BLOWN OVER, PLANTED WITH LOOSE ROOT BALL, ETC. CONTRACTOR'S OPTION.
- I. NEW SHRUB PLANTING, SEE SHEET L1.50.
- J. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN NURSERYMAN STANDARDS FOR TYPE AND SIZE SHOWN. PLANTS WILL BE REJECTED IF NOT IN A SOUND AND HEALTHY CONDITION.
- K. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. REPLACE ALL PLANT MATERIAL FOUND DEAD OR NOT IN A HEALTHY CONDITION IMMEDIATELY WITH THE SAME SIZE AND SPECIES AT NO COST TO THE OWNER.
- L. TREE PIT BACKFILL PLANTING MIX: BLEND TOPSOIL AND SOIL AMENDMENTS AND FERTILIZER FOR TREE PIT BACKFILL AT THE FOLLOWING RATES. BLEND AMENDMENTS THOROUGHLY WITH SOIL BACKFILL. TREE PITS SHALL BE 5'x5'x1.5' (37.5 CF/1.5 CY).
 - L.A. APPLICATION RATES:
 - L.A.A. HUMIC ACID: 25 LBS PER TREE PIT
 - L.A.B. COMMERCIAL GRADE COMPOST - 10 CUBIC FEET PER TREE PIT
 - L.A.C. PLANTING TABLET FERTILIZER - 4 TABLETS PER TREE PIT
 - L.A.D. CALCIFIED DIATOMACEOUS EARTH - 75 LBS PER TREE PIT
- M. SHRUB PIT BACKFILL PLANTING MIX: BLEND TOPSOIL AND SOIL AMENDMENTS AND FERTILIZER FOR SHRUB PIT BACKFILL AT THE FOLLOWING RATES. BLEND AMENDMENTS WITH THOROUGHLY WITH SOIL BACKFILL. SHRUB PITS SHALL BE 2.5'x2.5'x1' (6.25 CF/0.25 CY).
 - M.A. APPLICATION RATES:
 - M.A.A. HUMIC ACID: 2 LBS PER SHRUB PIT
 - M.A.B. COMMERCIAL GRADE COMPOST - 2 CUBIC FEET PER SHRUB PIT
 - M.A.C. PLANTING TABLET FERTILIZER - 2 TABLETS PER SHRUB PIT
 - M.A.D. CALCIFIED DIATOMACEOUS EARTH - 15 LBS PER SHRUB PIT
- N. IMMEDIATELY CLEAN UP ANY TOPSOIL OR OTHER DEBRIS ON THE SITE CREATED FROM LANDSCAPE OPERATIONS AND DISPOSE OF PROPERLY OFF SITE.

NOTES:

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

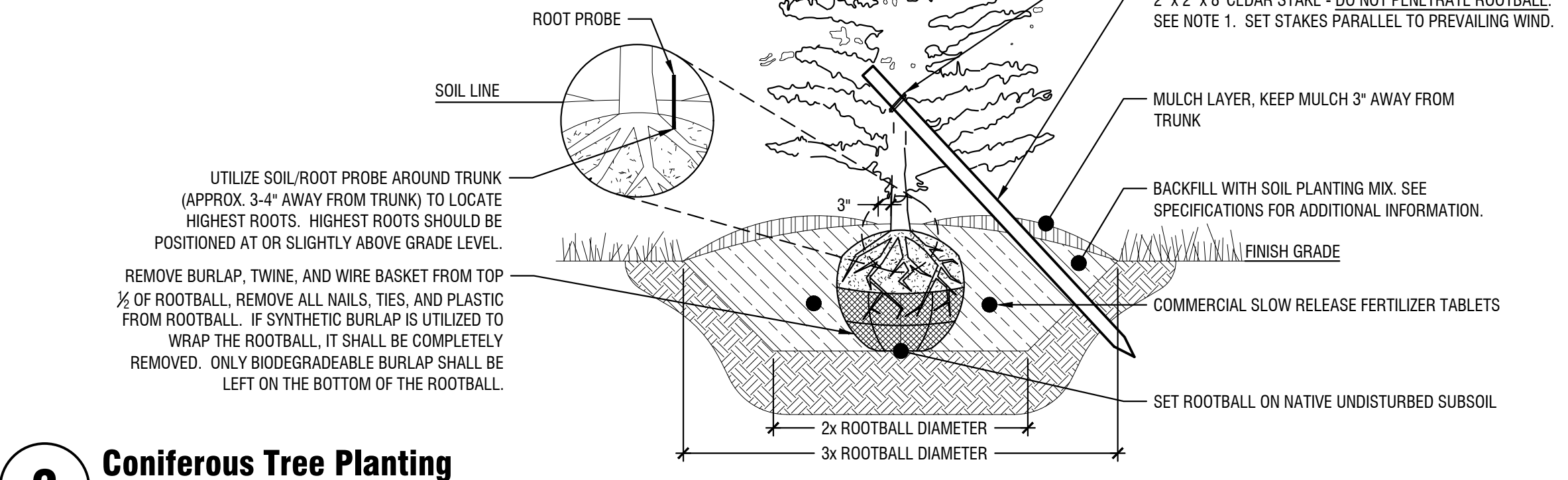


1 Deciduous Tree Planting

Scale: NTS

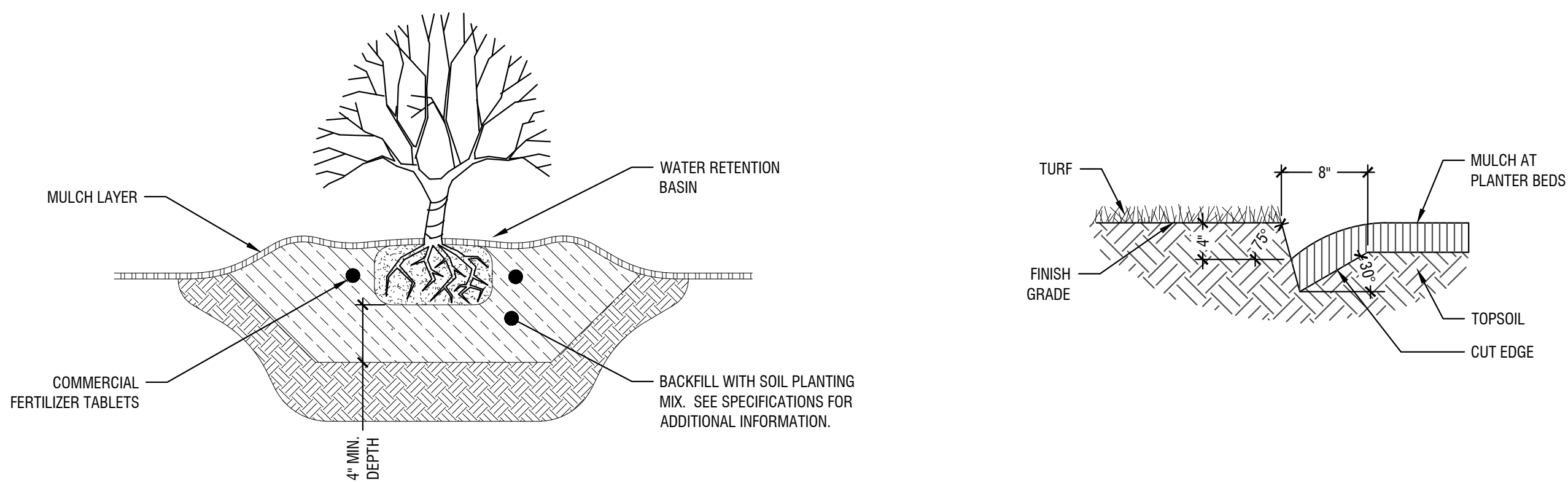
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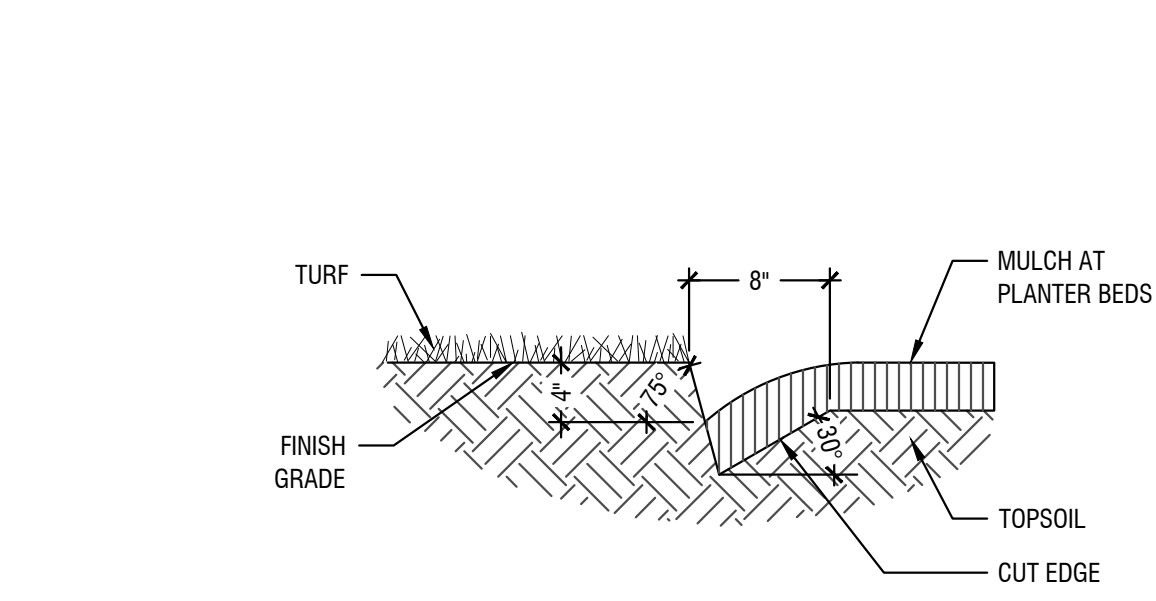
2 Coniferous Tree Planting

Scale: NTS



3 Shrub Planting

Scale: NTS



4 Planter Edge Cut Edge

Scale: NTS

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Project:

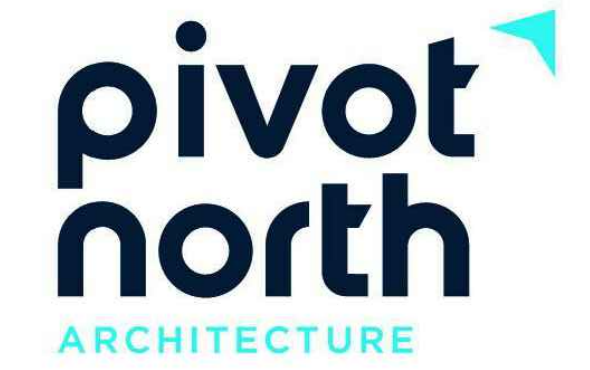
TWIN FALLS FIRE DEPARTMENT
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TRAINING FACILITY
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Revisions:

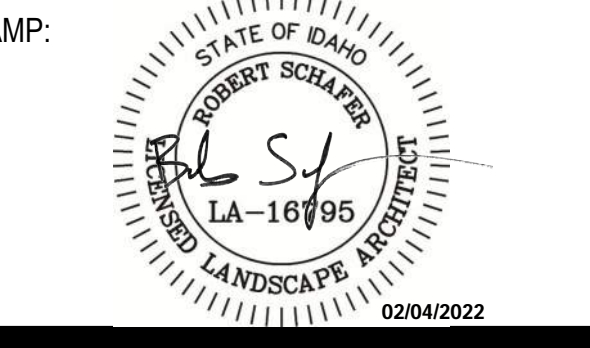
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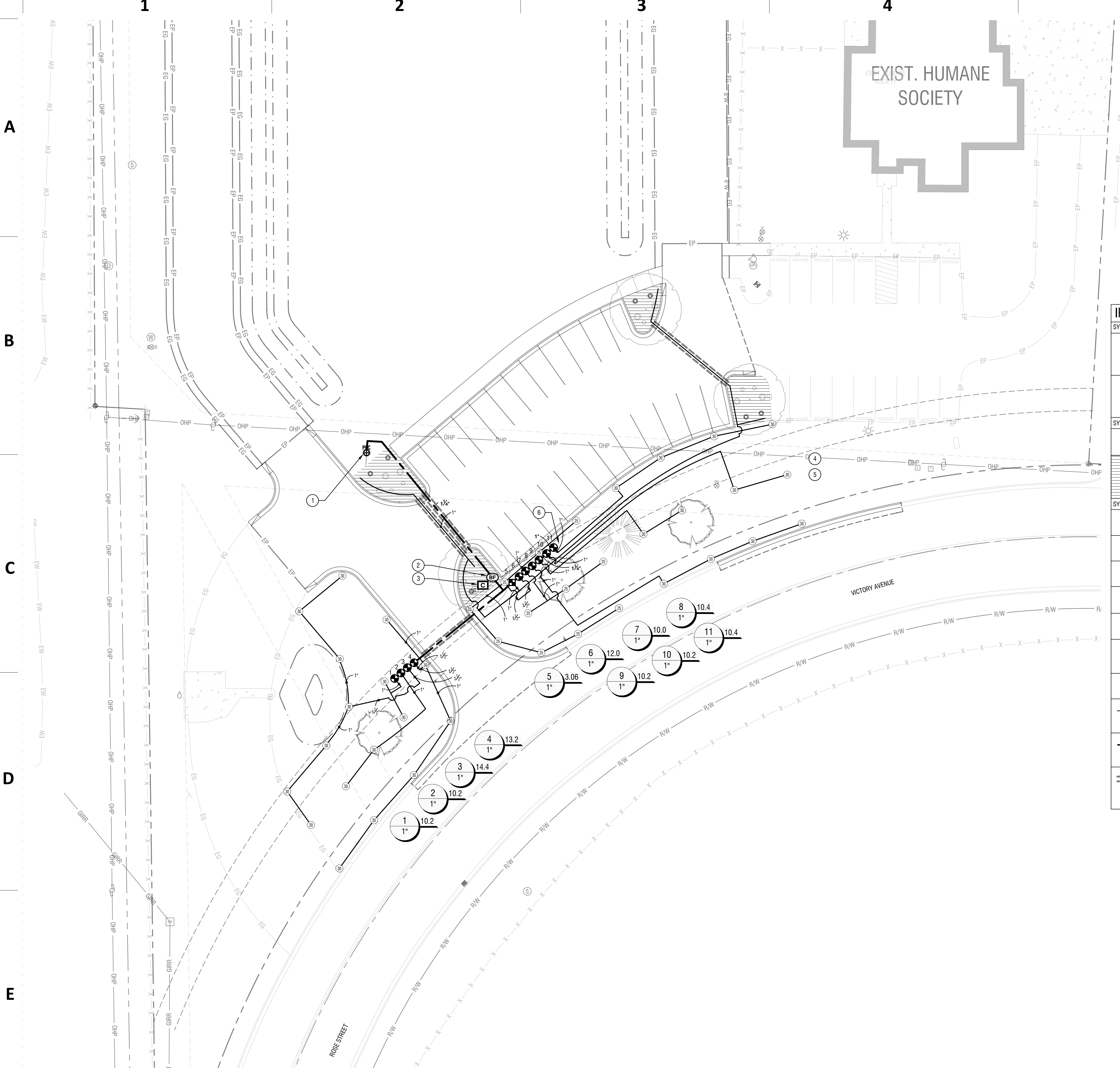
A

B

C

D

E



Sheet Notes:

- SEE SHEET L2.50 AND L2.51 FOR DETAILS AND IRRIGATION SYSTEM NOTES.
- COORDINATE WITH TODD ANDERSEN AT TWIN FALLS PARKS AND RECREATION FOR IRRIGATION SPECIFICATIONS.
- THE IRRIGATION CONTRACTOR SHALL NOTIFY THE TWIN FALLS PARKS AND RECREATION DEPARTMENT BEFORE STARTING THE PROJECT. A SITE AND INSTALLATION OVERVIEW BETWEEN THE CONTRACTOR AND OWNER/OWNERS REPRESENTATIVE SHALL BE CONDUCTED.

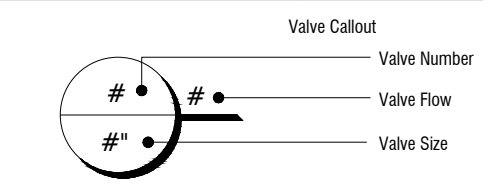
Keynotes:

- FIELD LOCATE 1-IN WATER METER IN THIS APPROXIMATE LOCATION. CONNECT MAINLINE AND EXTEND AS SHOWN ON PLANS.
- INSTALL REDUCED PRESSURE BACKFLOW DEVICE IN THIS APPROXIMATE LOCATION PER DETAIL 6/L2.50.
- INSTALL IRRIGATION CONTROLLER IN A STAINLESS STEEL PEDESTAL ENCLOSURE IN THIS APPROXIMATE LOCATION. IRRIGATION CONTRACTOR SHALL PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR SHALL CONNECT ALL LOW VOLTAGE AND 120 VOLT POWER WIRES. ALL ABOVE GRADE WIRES SHALL BE LOCATED IN RIGID STEEL CONDUIT. INSTALL (2) BLUE 14 GAUGE WIRES FROM THE CONTROLLER TO THE LAST VALVE FROM EACH CONTROLLER FOR FUTURE USE. COORDINATE WITH ELECTRICAL CONTRACTOR ON POWER SERVICE.
- RETAIN AND PROTECT EXISTING IRRIGATION. REPAIR ANY DISTURBANCES TO NEW CONDITIONS. MATCH EXISTING.
- CONTRACTOR TO MODIFY EXISTING IRRIGATION IN THIS AREA TO ENSURE HEAD TO HEAD COVERAGE.
- INSTALL biSensor MOISTURE SENSOR IN THE LANDSCAPE AT THIS APPROXIMATE AREA. CONNECT SAID SENSOR BACK TO SOIL MOISTURE MONITOR PER PLAN. REFER TO MANUFACTURER'S SPECIFICATIONS ON INSTALLATION PROCEDURES.

CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
(25)	RAIN BIRD 5004-PL-PC-FC-MPR-SAM TURF ROTOR, 4" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH SEAL-A-MATIC CHECK VALVE.	35		8/L2.50
(30)	RAIN BIRD 5004-PL-PC-FC-MPR-SAM TURF ROTOR, 4" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH SEAL-A-MATIC CHECK VALVE.	35		8/L2.50
■	RAIN BIRD KCZ-LF-100-PRF LOW FLOW DRIP CONTROL KIT, 1" LOW FLOW VALVE, 3/4" PRESSURE REGULATING RBY FILTER, AND 30PSI PRESSURE REGULATOR. -.			10/L2.50
▨	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-24 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 24" O.C. DRIPLINE LATERALS SPACED AT 24" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.			1/L2.51
⊙	RAIN BIRD PGA-PRS-D ANGLE 1", 1-1/2", 2" ELECTRIC REMOTE CONTROL VALVE, ANGLE. WITH PRESSURE REGULATOR MODULE.			9/L2.50
⊘	SHUT OFF VALVE			4/L2.50
⊚	DRAIN VALVE			5/L2.50
⊙	ZURN 375 1-1/4" REDUCED PRESSURE PRINCIPLE ASSEMBLY, SIZES 1/2", 3/4", 1", 1-1/4", 1-1/2", 2".			6/L2.50
⊙	IRRIROL RD12-MOD-R HYBRID CONTROLLER, MODULE ASSEMBLY, 12- STATION. RAIN SENSOR READY WITH THE CLIMATE LOGIC WIRELESS WEATHER SENSING SYSTEM.			4/L2.51
⊙	BASELINE BL-WTS100KIT SOIL MOISTURE MONITOR, INCLUDES BISENSOR AND S100 MONITOR. SEE SPECIFICATION SHEET FOR INSTALLATION DETAILS. INSTALL BISENSOR AT LOCATION SHOWN ON PLAN.			
⊙	POINT OF CONNECTION POINT OF CONNECTION AT 1-IN METER			1/L2.50
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PVC SCH. 40 PIPE SHALL BE USED WITH SOLVENT WELD SCH. 40 FITTINGS FROM 1/2" - 2-1/2" PIPE SIZES. ALL PIPE 3" AND ABOVE SHALL BE CLASS 200 WITH DUCTILE JOINT RESTRAIN FITTINGS BY LEEMCO.			2/L2.50
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 PVC SCH. 40 PIPE SHALL BE USED WITH SOLVENT WELD SCH. 40 FITTINGS FROM 1/2" - 2-1/2" PIPE SIZES. ALL PIPE 3" AND ABOVE SHALL BE CLASS 200 WITH DUCTILE JOINT RESTRAIN FITTINGS BY LEEMCO.			2/L2.50
---	PIPE SLEEVE: PVC CLASS 200 SDR 21 PIPE SLEEVE SHALL BE TWICE THE SIZE OF DESIGNED PIPE DIAMETER FOR MAINLINE AND 4" FOR LATERAL LINES. INSTALL ADDITIONAL 2" SLEEVE AT ALL MAINLINE SLEEVES FOR CONTROL WIRES OR WHERE CONTROL WIRE LEAVES MAINLINE ROUTE.			3/L2.50



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Project:
**TWIN FALLS FIRE DEPARTMENT
 JIM BIERI REGIONAL FIRE
 TRAINING FACILITY**
 430 VICTORY AVE
 TWIN FALLS, ID 83301

Revisions: △

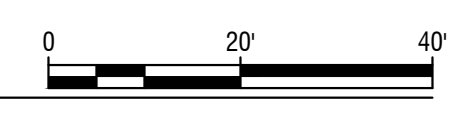
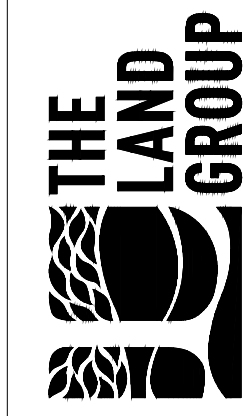
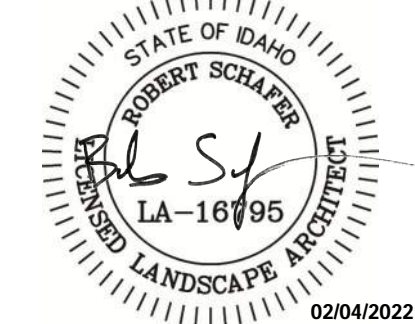
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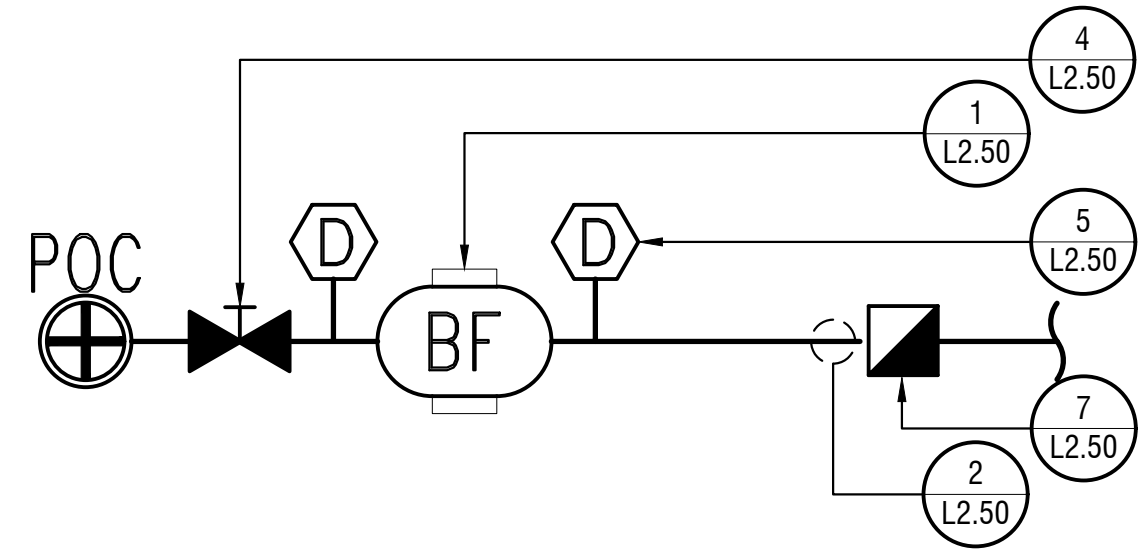
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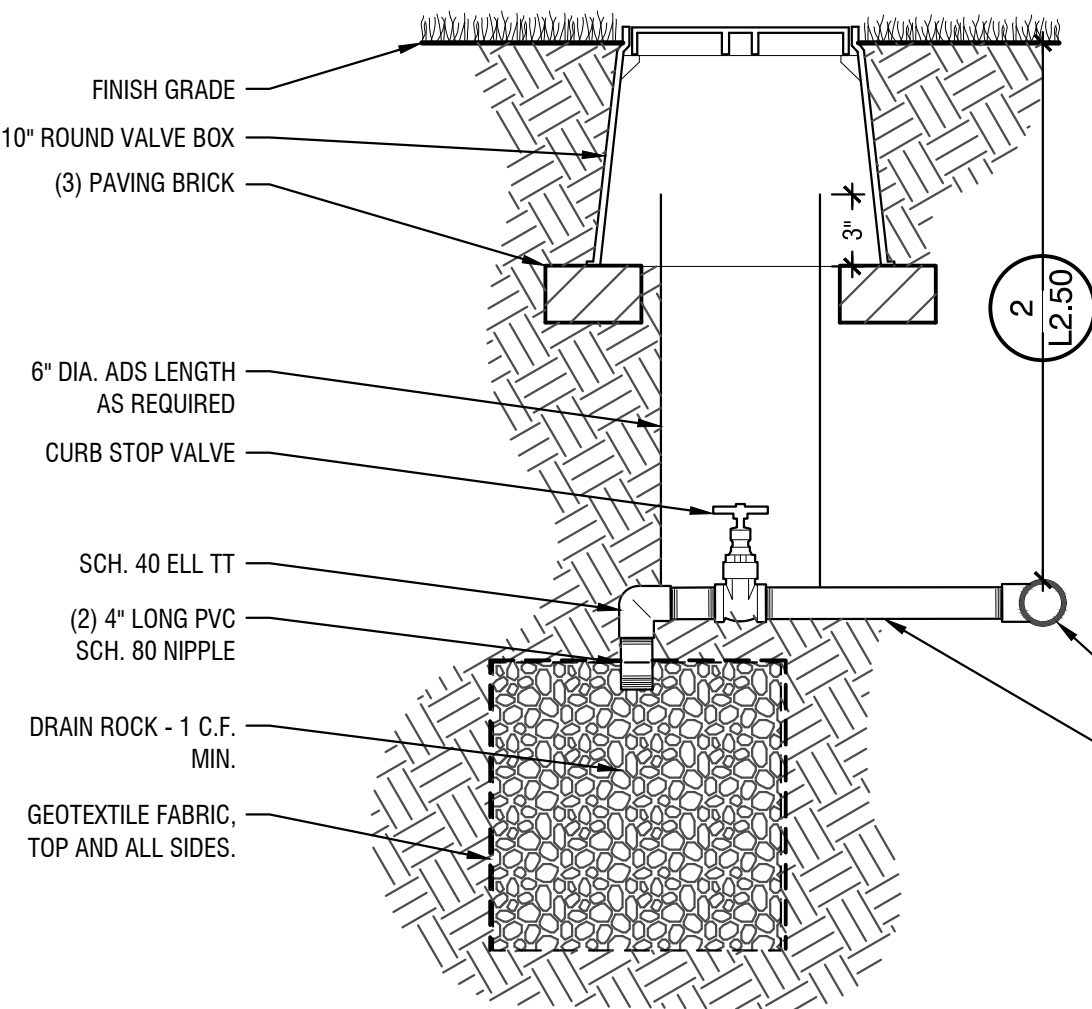
A



B

1 POINT OF CONNECTION (BACKFLOW)

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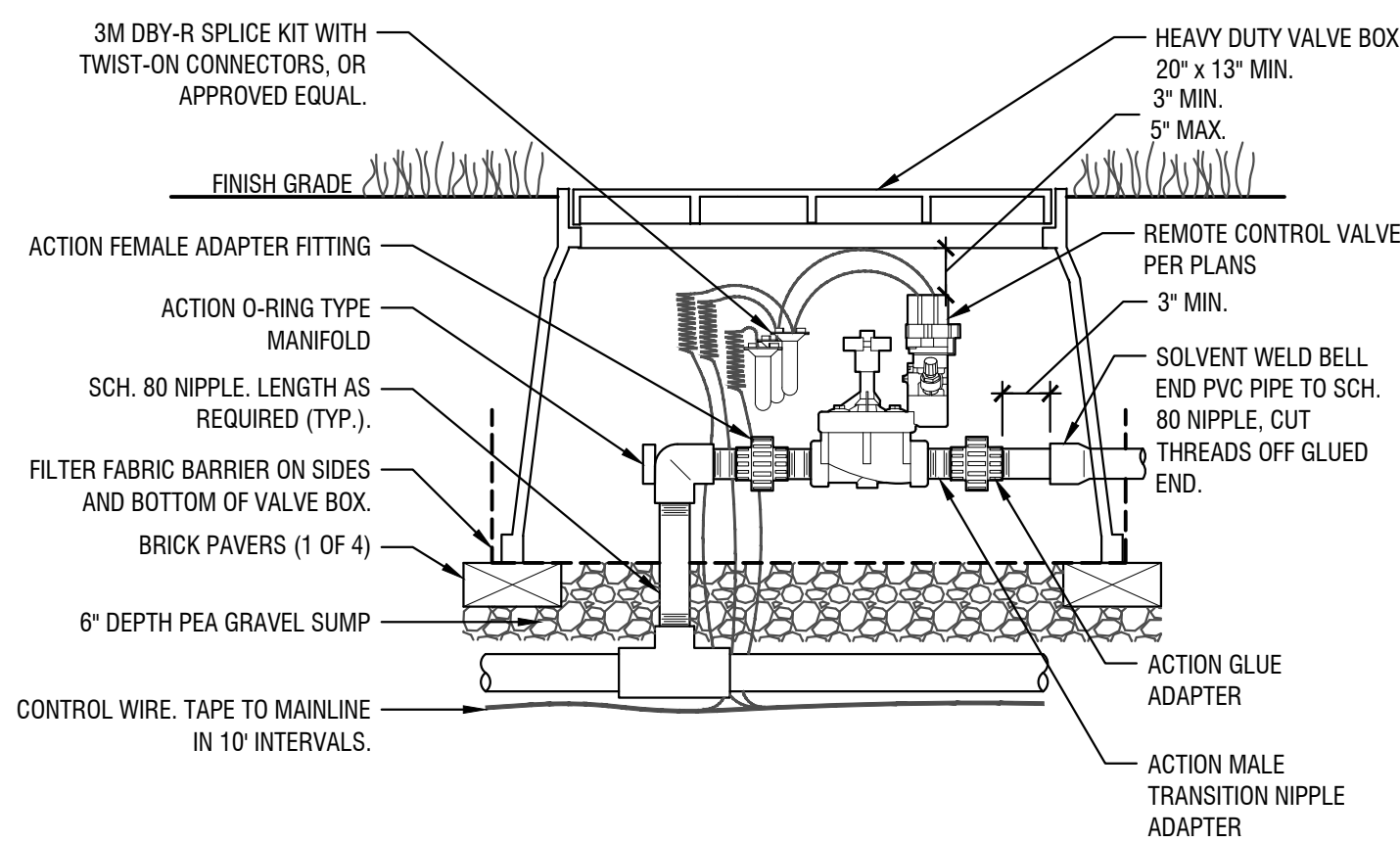


NOTE: VALVE TO BE BUCKNER SUPERIOR BRAND OR APPROVED EQUAL BY CITY OF TWIN FALLS.

C

5 DRAIN VALVE

SCALE: NTS



NOTE:

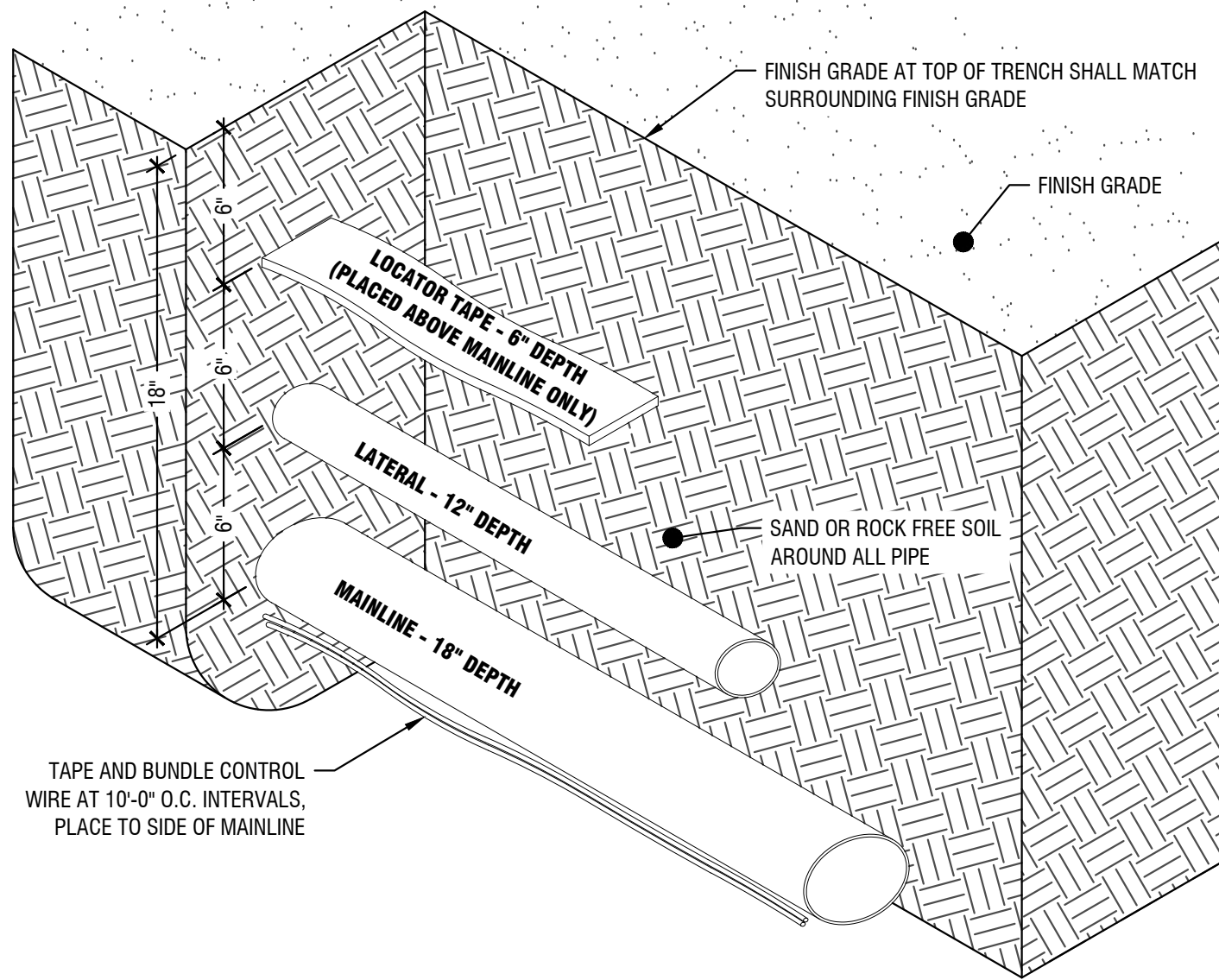
1. ALL FITTINGS TO BE SPEARS BRAND POLY FITTINGS AND SPEARS HARDWARE.
2. REFER TO TRENCH SECTION FOR MAINLINE AND LATERAL DEPTHS.
3. CENTER REMOTE CONTROL VALVE ASSEMBLY IN VALVE BOX. ONLY ONE VALVE SHALL BE INSTALLED PER BOX. A MINIMUM OF 3" CLEARANCE SHALL BE PROVIDED ON ALL SIDES OF REMOTE CONTROL VALVE.
4. INSTALL REDUCER IMMEDIATELY DOWN STREAM OF REMOTE CONTROL VALVE AND NIPPLE TO ACHIEVE SPECIFIED LATERAL SIZE ON PLANS.

E

9 REMOTE CONTROL VALVE

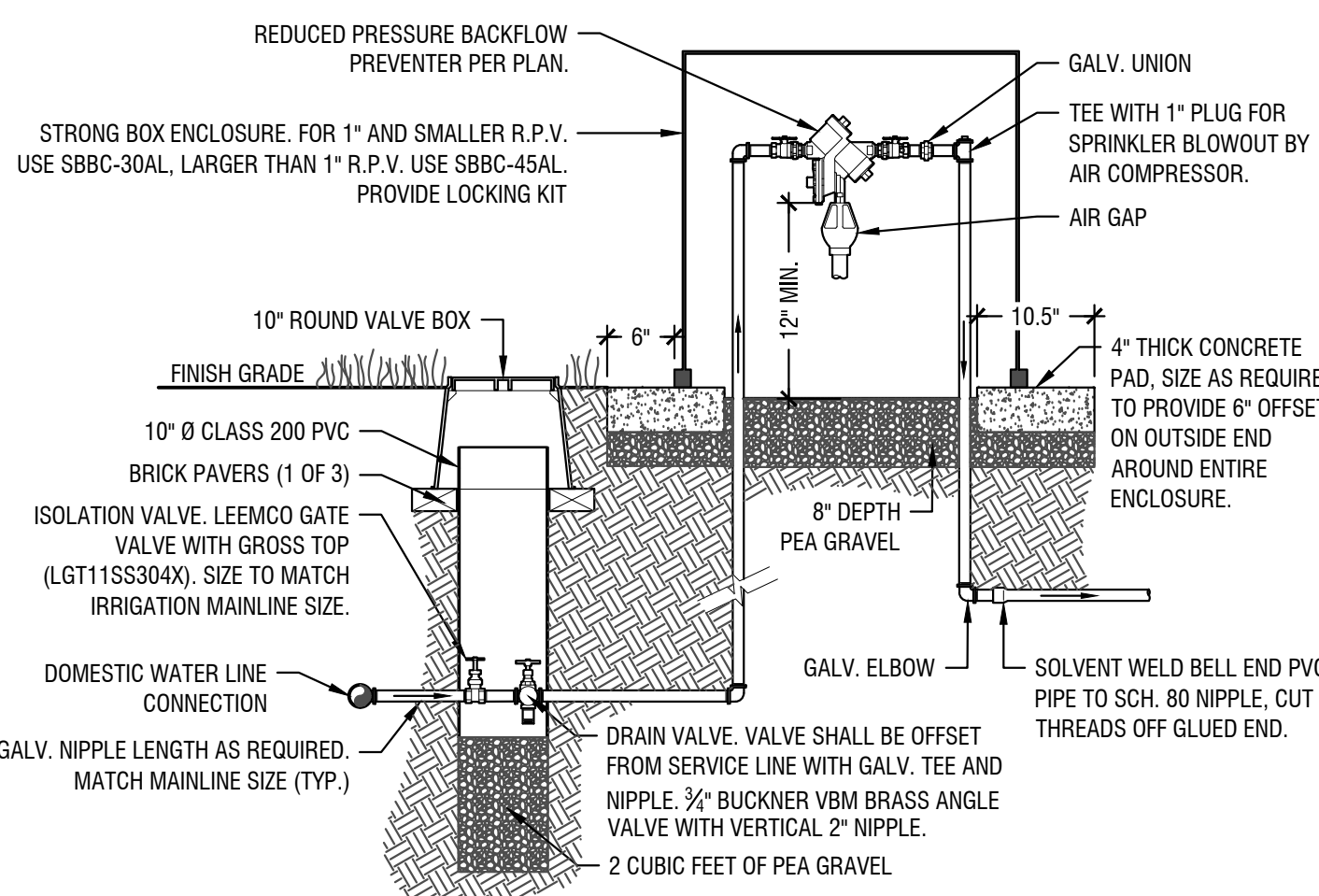
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2



2 TRENCH SECTION

SCALE: NTS

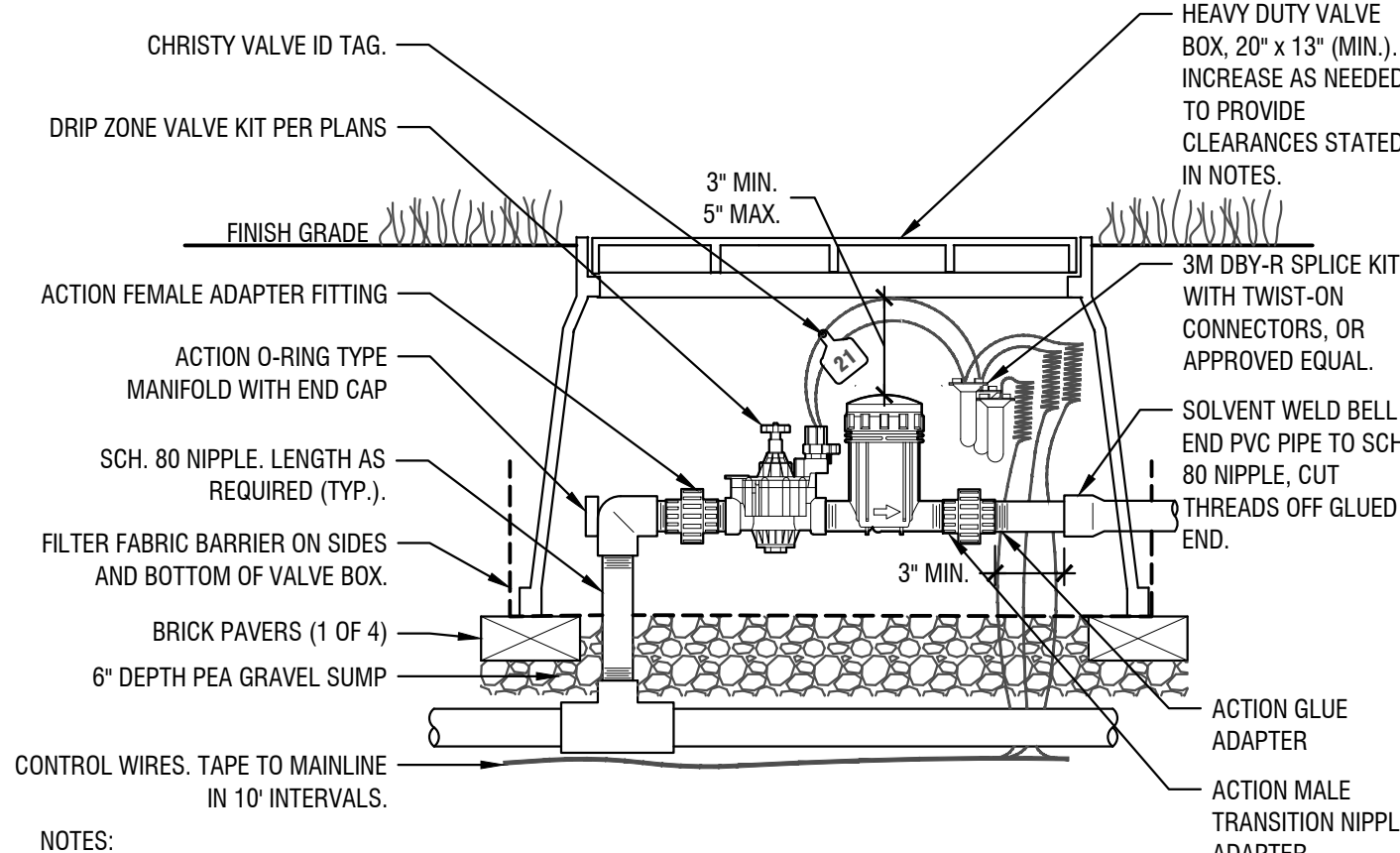


NOTES:

1. ALL FITTINGS & PIPING SHALL BE TAPE-WRAPPED SCH. 40 GALVANIZED STEEL FROM THE POINT OF CONNECTION TO THE LAST ELBOW SHOWN BEYOND THE BACKFLOW DEVICE.
2. PROVIDE 3" CLEARANCE ON ALL SIDES OF BACKFLOW, UNION AND BLOW-OFF PLUG. INCREASE ENCLOSURE SIZE AS REQUIRED TO PROVIDE CLEARANCES.

6 REDUCED PRESSURE BACKFLOW ASSEMBLY

SCALE: NTS



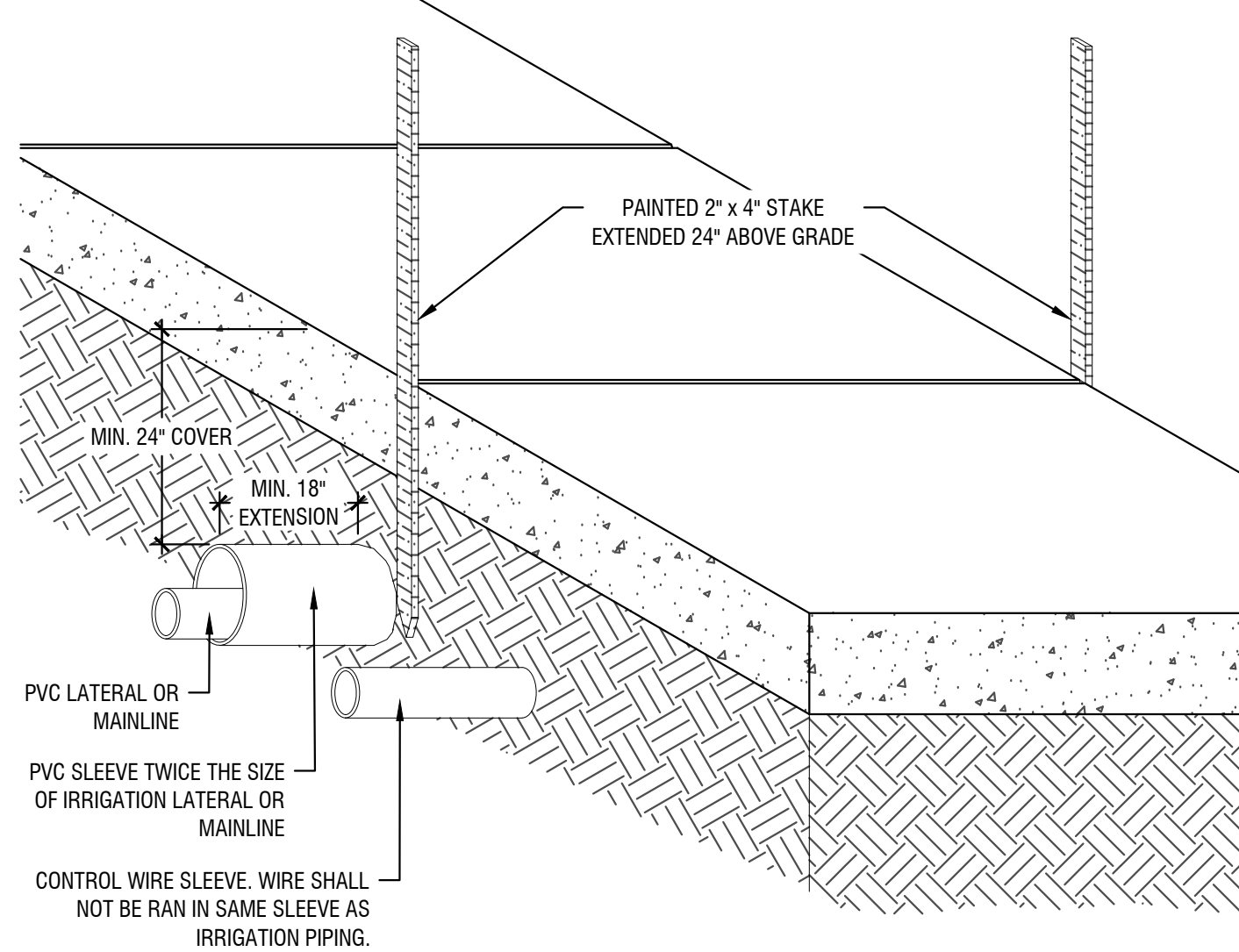
NOTES:

1. ALL FITTINGS TO BE SPEARS BRAND POLY FITTINGS AND SPEARS HARDWARE.
2. VALVE ID TAGS SHALL MATCH VALVE NUMBER ASSIGNED TO VALVE ON PLANS, UNLESS APPROVED BY ARCHITECT. TAGS SHALL HAVE DIGITAL LETTERING/NUMBERING ONLY.
3. REFER TO TRENCH SECTION FOR MAINLINE AND LATERAL DEPTHS.
4. CENTER DRIP ZONE KIT ASSEMBLY IN VALVE BOX. ONLY ONE VALVE SHALL BE INSTALLED PER BOX. A MINIMUM OF 3" CLEARANCE SHALL BE PROVIDED ON ALL SIDES OF ANGLE VALVE AND DRIP ZONE KIT ASSEMBLY.
5. INSTALL REDUCER IMMEDIATELY DOWN STREAM OF REMOTE CONTROL VALVE AND NIPPLE TO ACHIEVE SPECIFIED LATERAL SIZE ON PLANS.
6. ALL DRIP ZONES SHALL HAVE A FILTER WITH STAINLESS STEEL SCREEN AT A 120 MESH (MIN.).

10 DRIPLINE REMOTE CONTROL VALVE

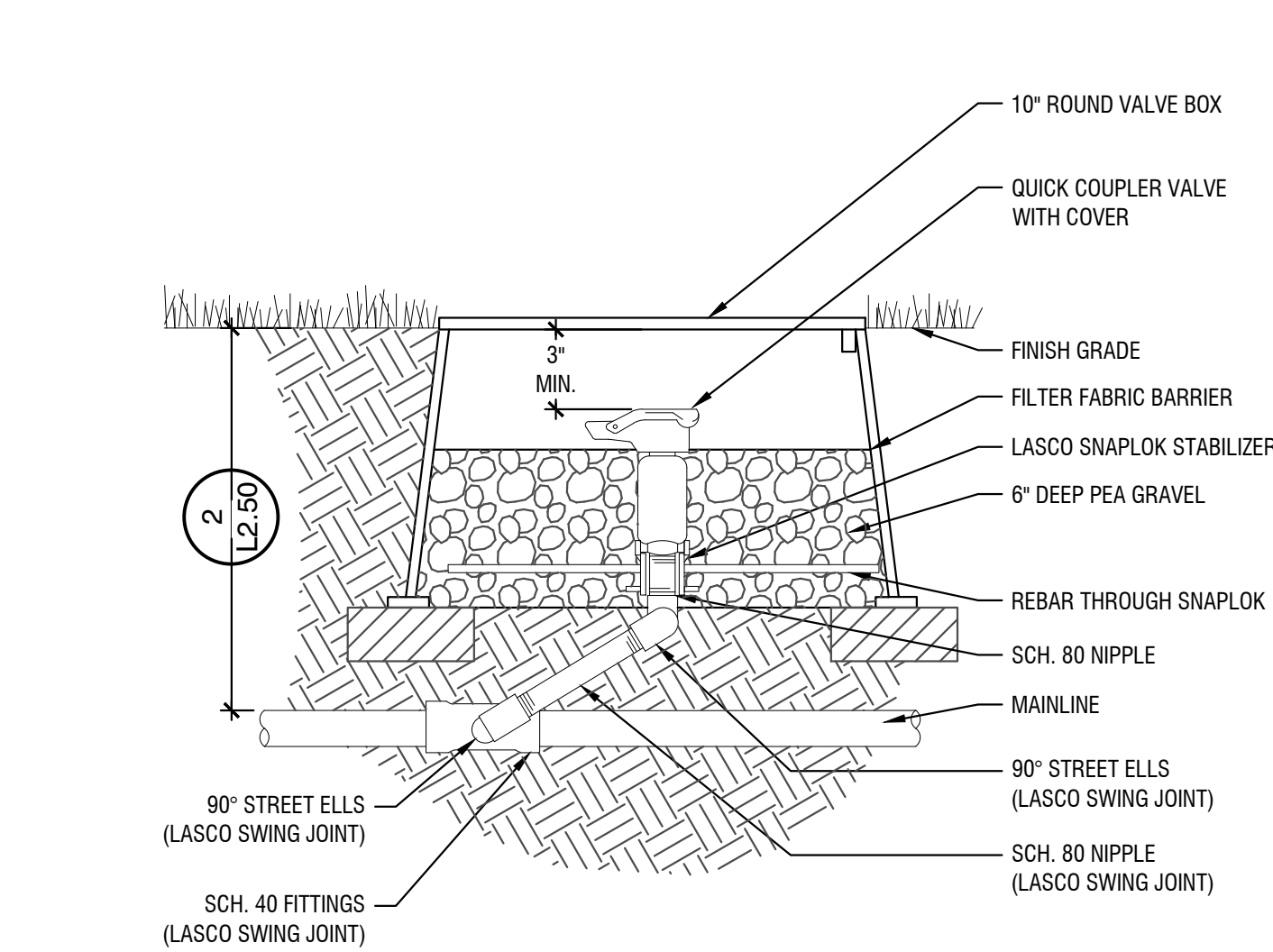
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3



3 SLEEVING SECTION

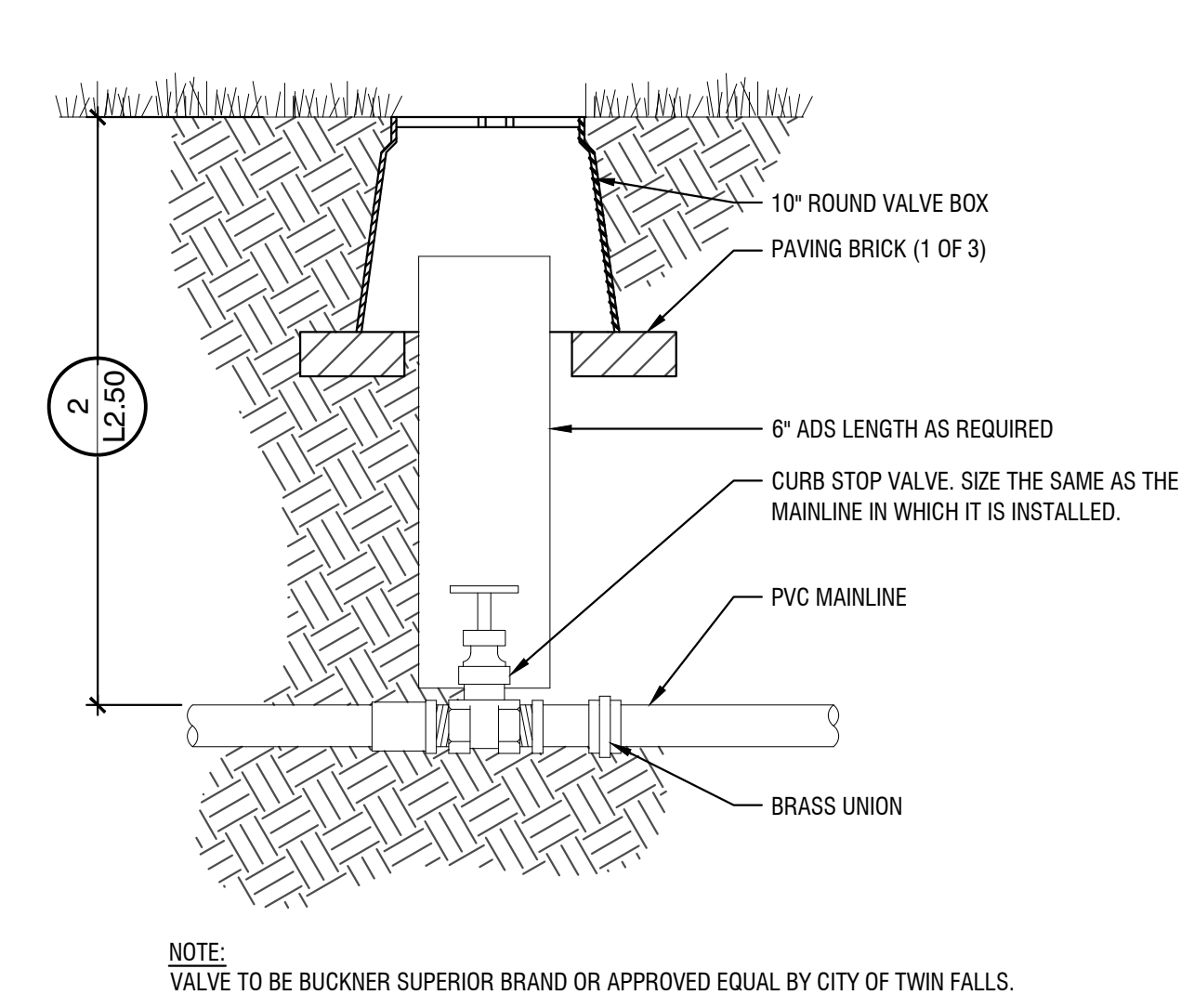
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7 QUICK COUPLER VALVE

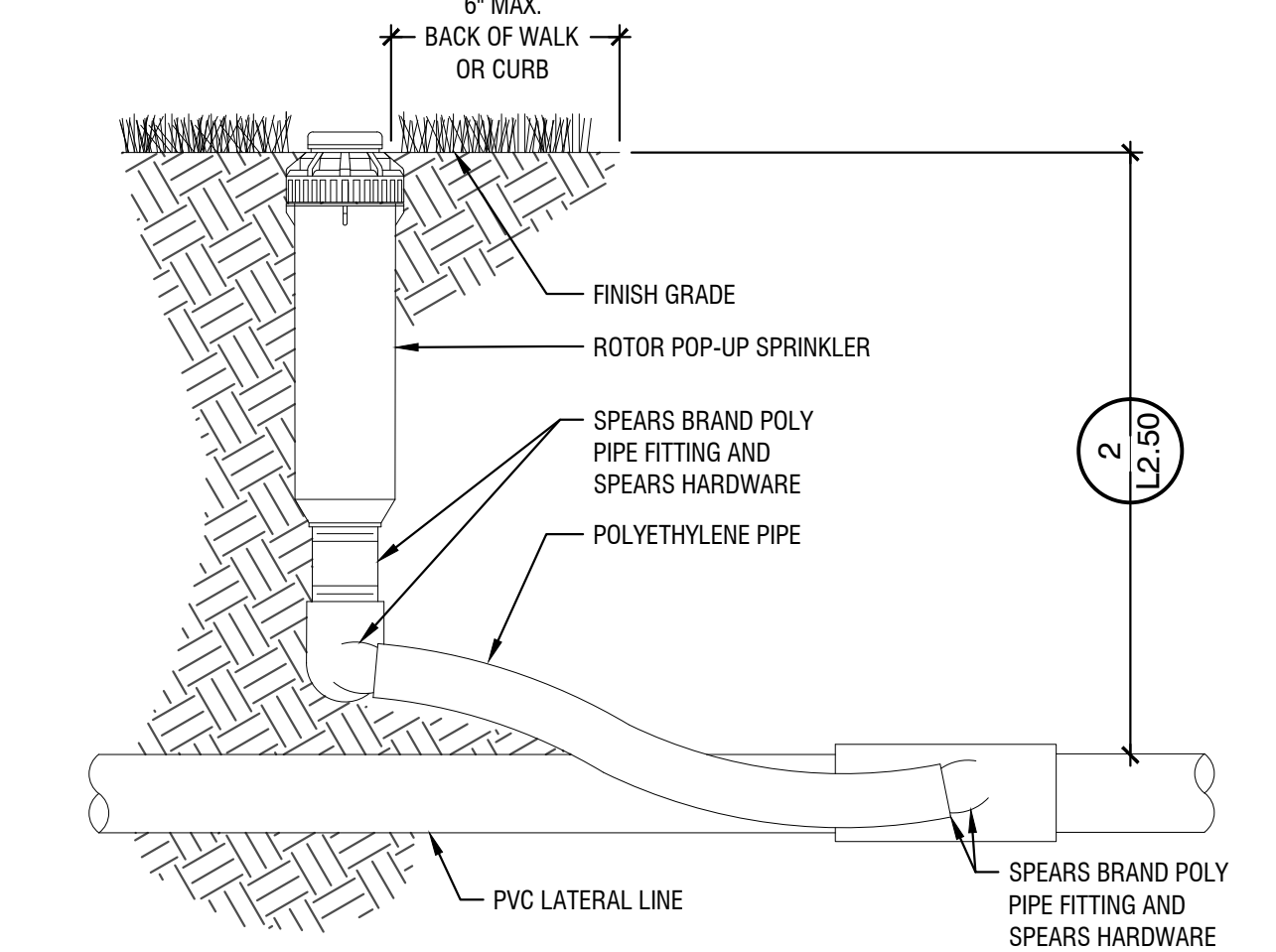
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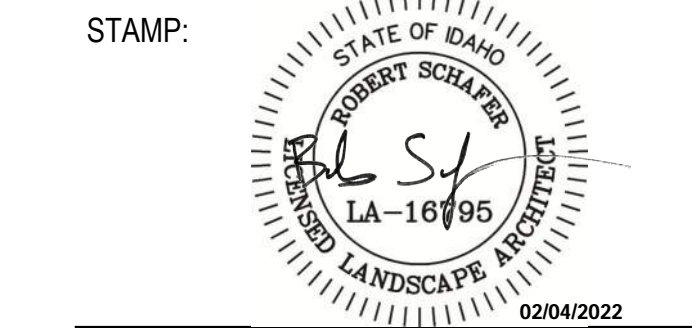
4 ISOLATION VALVE

SCALE: NTS



8 ROTOR SPRINKLER

SCALE: NTS



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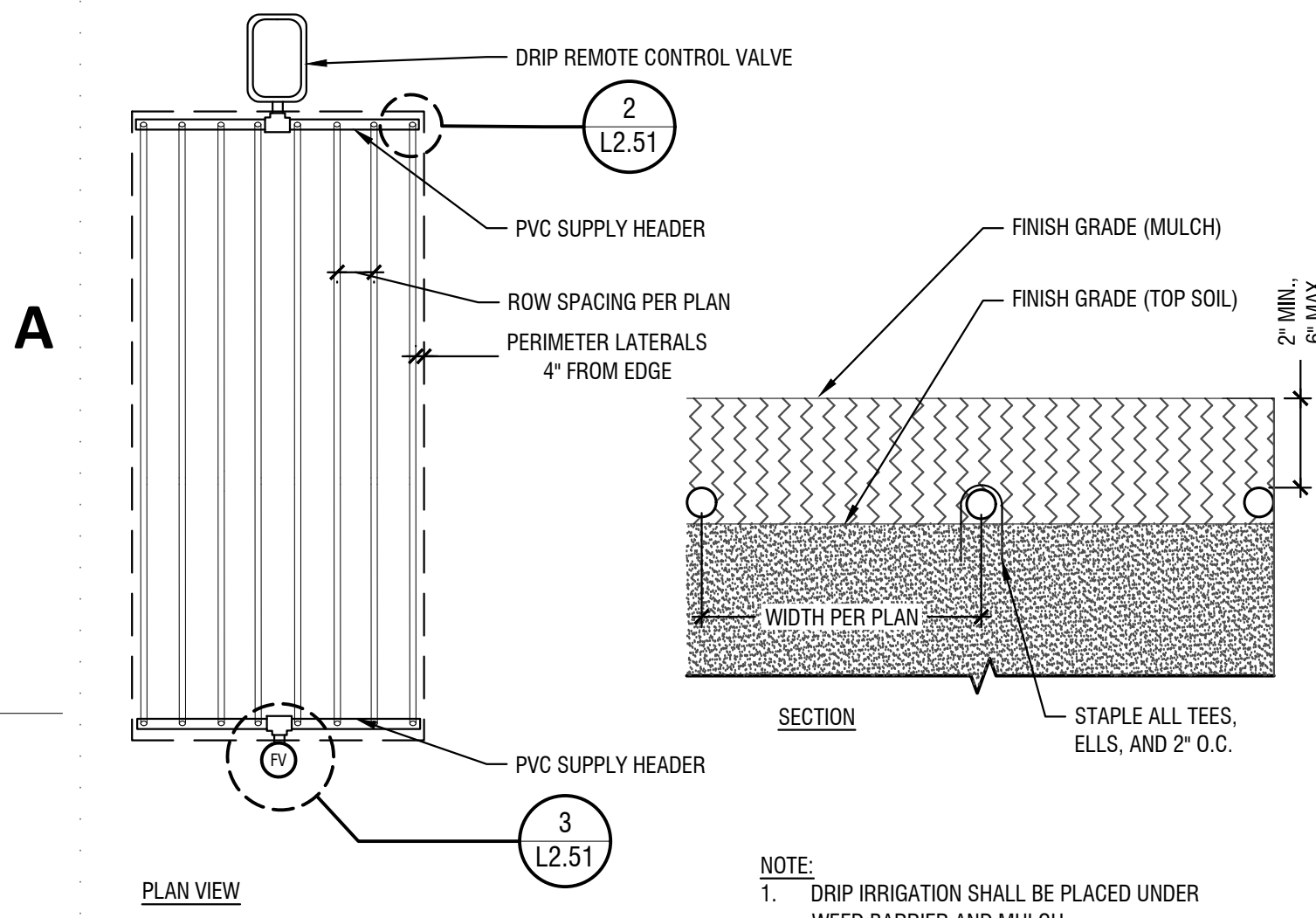
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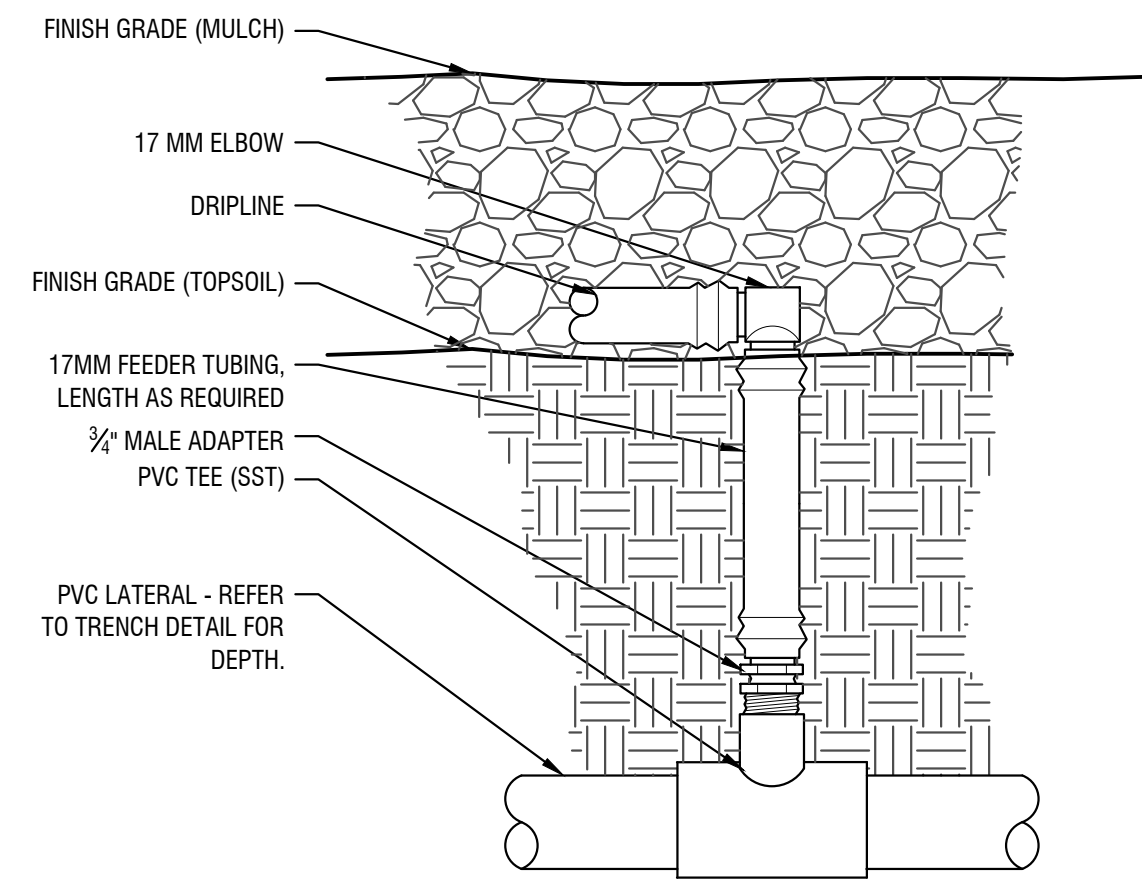
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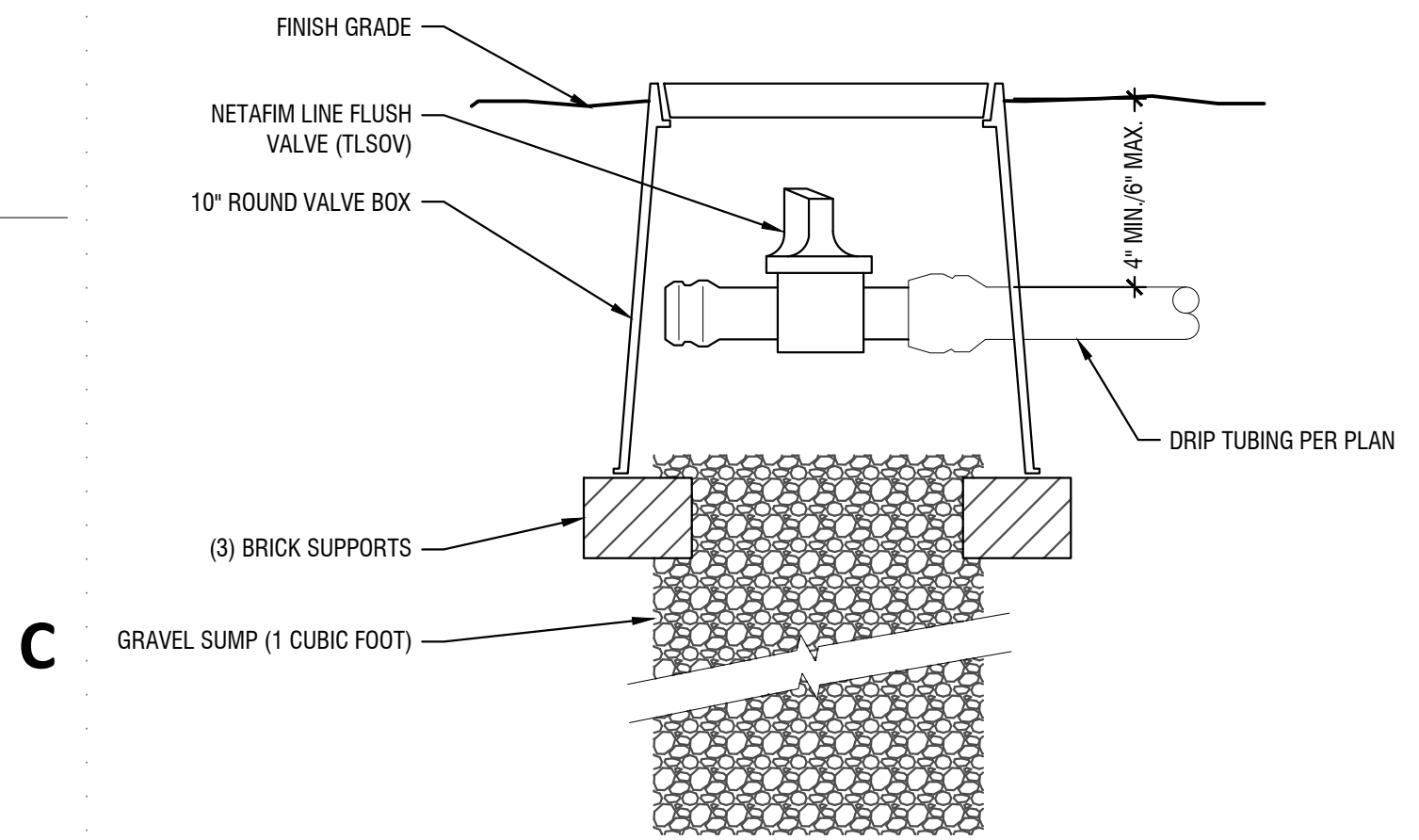
1 DRIPLINE LAYOUT
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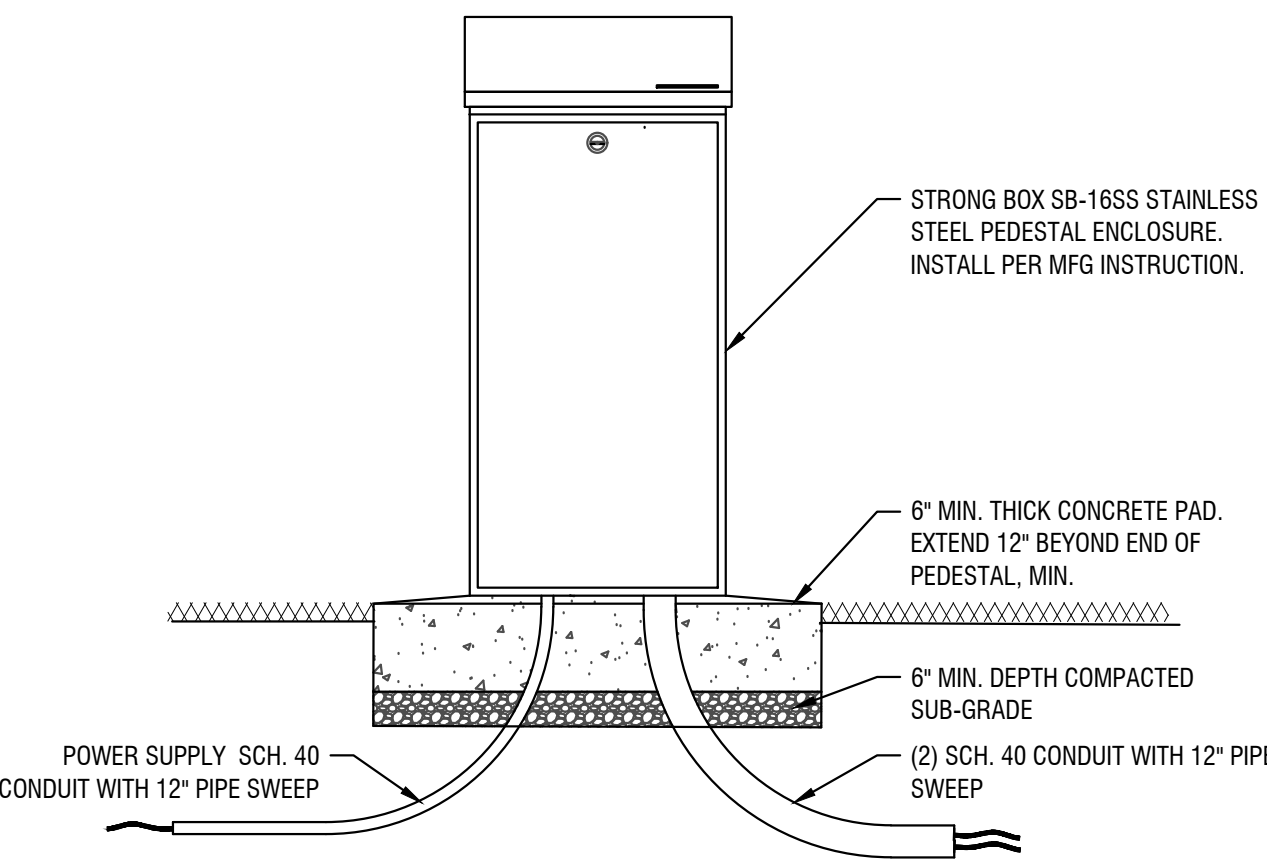
2 DRIPLINE LATERAL CONNECTION
SCALE: NTS

3



3 DRIP FLUSH VALVE
SCALE: NTS

4



4 IRRIGATION CONTROLLER - STRONG BOX PEDESTAL
SCALE: NTS

3

Irrigation Execution:

- A. REMOTE CONTROL VALVES:
 - A.A. INSTALLED (1) REMOTE CONTROL VALVE PER VALVE BOX. ENSURE THAT ADEQUATE SPACE IS PROVIDED AROUND ENTIRE VALVE FOR EASE OF MAINTENANCE. ROUND VALVE BOXES ARE NOT PERMITTED.
 - A.B. VALVE BOXES SHALL BE GREEN OR BLACK WITH GREEN LIDS.
- B. IRRIGATION CONTROL WIRE:
 - B.A. ALL WIRE SPLICES SHALL BE INSTALLED WITH A WATERPROOF WIRE CONNECTORS AND DBY/R CAP OR BLAZING NUT WIRE SPLICE CONNECTOR. ALL WIRE SPLICES SHALL BE LOCATED IN VALVE BOXES AND INDICATED ON AS-BUILT DRAWINGS. PROVIDE AS A MINIMUM .36\"/>
- C. PIPING (USE THE FOLLOWING):
 - C.A. 2-1/2\"/>
- D. BACKFILL TRENCHES CONSISTING OF SAND, FINE GRAVEL OR SELECT EARTH FREE OF LARGE LUMPS OR ROCKS LARGER THAN 3/4\"/>

Drip Irrigation Notes:

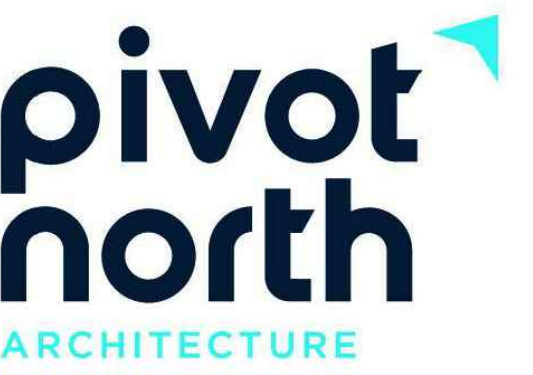
- A. ALL PLANTER BEDS ARE TO BE IRRIGATED W/ DRIP IRRIGATION AS INDICATED ON PLANS. THE CONTRACTOR IS RESPONSIBLE TO INSTALL THE DRIP SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS AND THE FOLLOWING REQUIREMENTS:
 - A.A. EACH DRIP ZONE SHALL RECEIVE A DRIP ZONE CONTROL KIT WITH PRESSURE REGULATION AND 120 MESH (MIN.) STAINLESS STEEL FILTRATION SCREEN.
 - A.B. ALL TUBING IS TO BE STAKED DOWN WITH 6\"/>
- B. IF WEED BARRIER FABRIC IS USED IN LANDSCAPE BEDS, DRIP IRRIGATION SHALL BE INSTALLED UNDERNEATH FABRIC AND STAPLED AS INDICATED ABOVE.
- C. ALL LATERAL LINES FROM VALVES TO HEADERS ARE TO BE BURIED AT DEPTH INDICATED IN TRENCH SECTION DETAIL. SIZE AS NECESSARY.
- D. AFTER INSTALLATION OF THE IRRIGATION SYSTEM THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER WITH AS-BUILT DRAWINGS AND INSTRUCTIONS FOR MAINTENANCE OF THE DRIP SYSTEM.

Existing Irrigation Retention and Preservation:

- A. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING IRRIGATION MAINLINES, LATERALS AND ASSOCIATED COMPONENTS THAT ARE IN NEAR VICINITY OF CONSTRUCTION LIMITS. CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING EQUIPMENT AND PIPING THROUGHOUT THE DURATION OF CONSTRUCTION. IF IRRIGATION SYSTEM IS SHUT DOWN DUE TO CONSTRUCTION PRACTICES, CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES TO ENSURE THAT 2\"/>

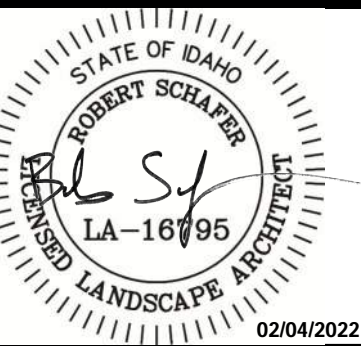
Irrigation Notes:

- A. SYSTEM DESIGN BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 15 G.P.M. AND 60 P.S.I.
- B. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
- C. COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
- D. CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND SLEEVES UNDER HARD SURFACES WITH RESPECTIVE CONTRACTORS.
- E. ALL SLEEVES TO BE INSTALLED AS PART OF IRRIGATION CONTRACT. APPROXIMATE LOCATION OF SLEEVES ARE SHOWN ON THE IRRIGATION PLAN. FIELD VERIFY LOCATION. ALL ENDS OF SLEEVES TO BE TAPED OR CAPPED AND MARKED WITH A 2\"/>



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Revisions:

Project No: 120104
Date: 02.04.2022
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Drawn By: CRJL

Sheet Name:

Irrigation Details And Notes

Sheet No:

L2.51

1
STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE LOG	
		10% DD	PERMIT SET
S0.00	ABBREVIATIONS, SYMBOLS AND SHEET INDEX		
S0.01	GENERAL NOTES & STATEMENT OF SPECIAL INSPECTIONS		
S1.00	FOUNDATION PLAN		
S2.00	TYPICAL CONCRETE DETAILS		

ISSUE LOG KEY:	
X	ISSUED AS PART OF A SET
-	NOT AS PART OF ISSUED SET
.	FOR INFORMATION ONLY

3
STRUCTURAL ABBREVIATIONS

(E) EXISTING	AB ANCHOR BOLT	ADJL ADDITIONAL	ADJ ADJUSTABLE	AESS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	AFF ABOVE FINISH FLOOR	ANCH ANCHOR	ARCH ARCHITECTURAL	B.O. BOTTOM OF	BLDG BUILDING	BLKG BLOCKING	BM BEAM	BN DIAPHRAGM BOUNDARY NAILING	BOT BOTTOM	BRG BEARING	BSMT BASEMENT	BTWN BETWEEN	C CAMBER	CAP CAPACITY	CC CENTER TO CENTER	CDF CONTROLLED DENSITY FILL	CIP CAST-IN-PLACE	CJ CONSTRUCTION OR CONTROL JOINT	CJP COMPLETE JOINT PENETRATION	CL CENTERLINE	CLG CEILING	CLR CLEAR	CMU CONCRETE MASONRY UNIT	COL COLUMN	CONC CONCRETE	CONN CONNECTION	CONST CONSTRUCTION	CONT CONTINUOUS	COORD COORDINATE	CTR CENTER	CY CUBIC YARD	DBA DEFORMED BAR ANCHOR	DBL DOUBLE	DCW DEMAND CRITICAL WELD	DEMO DEMOLISH	DET DETAIL	DF DOUGLAS FIR	DIA DIAMETER	DIAG DIAGONAL	DKG DECKING	DN DOWN	DWF DEFORMED WIRE FABRIC	DWG DRAWING	DWL DOWEL	EA EACH	EF EACH FACE	EL ELEVATION	ELECT ELECTRICAL	ELEV ELEVATOR	EN PANEL EDGE NAILING	EQ EQUAL OR EQUIPMENT	ES EACH SIDE	EW EACH WAY	EXP EXPANSION	EXT EXTERIOR	F FAHRENHEIT	FD FLOOR DRAIN	FDN FOUNDATION	FF FINISH FLOOR	FLR FLOOR	FOB FACE OF BUILDING	FS FAR SIDE	FT FEET	FTG FOOTING	GA GAUGE	GALV GALVANIZED	GB GRADE BEAM	GEN GENERAL	GL GLUED LAMINATED TIMBER	GOV GOVERNMENT	GR GRADE	GWBS GYPSUM WALL BOARD	HF HEM-FIR	HGR HANGER	HK HOOK	HORIZ HORIZONTAL	HP HIGH POINT	HSS HOLLOW STRUCTURAL SECTION	IBC INTERNATIONAL BUILDING CODE	ID INSIDE DIAMETER	IE INVERT ELEVATION	IF INSIDE FACE	IN INCH	INFO INFORMATION	INT INTERIOR	JST JOIST	JT JOINT	K KIP (1,000 LBS.)	KSF KIPS PER SQUARE FOOT	LF LINEAL FOOT	LFH LONG FACE HORIZONTAL	LLH LONG LEG HORIZONTAL	LLV LONG LEG VERTICAL	LNGT LONGITUDINAL	LP LOW POINT	LSL LAMINATED STRAND LUMBER	LVL LAMINATED VENEER LUMBER	MAX MAXIMUM	MECH MECHANICAL	MFR MANUFACTURER	MIN MINIMUM	MISC MISCELLANEOUS	NIC NOT IN CONTRACT	NO NUMBER	NOM NOMINAL	NS NEAR SIDE	NS NONSHRINK	NTS NOT TO SCALE	OC ON CENTER	OD OUTSIDE DIAMETER	OF OUTSIDE FACE	OPNG OPENING	OPP OPPOSITE	PAF POWER ACTUATED FASTENER	PC PIECE	PC PILE CAP	PEN PENETRATION	PJP PARTIAL JOINT PENETRATION	PL PLATE	PLWD PLYWOOD	PSF POUNDS PER SQUARE FOOT	PSI POUNDS PER SQUARE INCH	PT POST-TENSIONED	PT PRESERVATIVE-TREATED	PWT PREFABRICATED WOOD TRUSS	R RADIUS	RD ROOF DRAIN	REINF REINFORCING	REQD REQUIRED	RND ROUND	RO ROUGH OPENING	RTN RETURN	SC SLIP CRITICAL SCHEDULE	SCHED SCHEDULE	SECT SECTION	SFRS SEISMIC FORCE-RESISTING SYSTEM	SHT SHEET	SHTG SHEATHING	SIM SIMILAR	SOG SLAB-ON-GRADE SPECIFICATION	SQ SQUARE	SS STAINLESS STEEL	STD STANDARD	STIFF STIFFENER	STIRR STIRRUP	STL STEEL	STRUCT STRUCTURAL	SUPP SUPPORT	SYM SYMMETRICAL	T&B TOP AND BOTTOM TONGUE AND GROOVE	T.O. TOP OF	THK THICKNESS	THRU THROUGH	TRANS TRANSVERSE	TYP TYPICAL	UNO UNLESS NOTED OTHERWISE	UT ULTRASONIC TESTING	VERT VERTICAL	VIF VERIFY IN FIELD	W WITH	WO WITHOUT	WD WOOD	WF WIDE FLANGE	WHS WELDED HEADED STUD	WP WORKPOINT
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6
STRUCTURAL DRAWING SYMBOLS

	GRIDLINE		CONCRETE WALL ABOVE
	SURFACE - SLOPE UP		CMU WALL ABOVE
	SURFACE - STEPPED		WOOD/CFS STRUCTURAL WALL ABOVE
	SURFACE - SLOPE DOWN		WALL BELOW
	SURFACE - SLOPE TWO WAYS		
	UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, OR ANY PREPARED SUBGRADE.		
	PLAN NORTH		
	NORTH ARROW		
	DETAIL SYMBOL		
	BUILDING SECTION CUTS		
	ELEVATION OF WALL OR FRAME		
	DETAIL SECTION		
	SPOT ELEVATION AS INDICATED T.O. DECK T.O. CONC. T.O. STEEL T.O. PLY DECK BRG		
	ELEVATION OF LEVEL		
	WORKPOINT		
	DIRECTION OF DOWNWARD SLOPE		

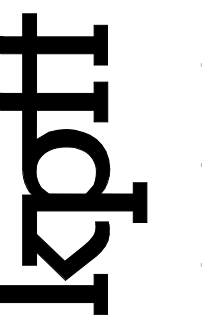


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Project No:	120104
Date:	02.04.2022
Checked By:	JW
Drawn By:	SM

Sheet Name:
ABBREVIATIONS,
SYMBOLS AND SHEET
INDEX

Sheet No:
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GENERAL NOTES & STATEMENT OF SPECIAL INSPECTIONS

REINFORCING STEEL:

- GENERAL:**
- DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."
 - WELDER QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.4
 - SUBMITTALS:
 - REINFORCEMENT SHOP DRAWINGS
 - MATERIAL CERTIFICATES FOR REINFORCING STEEL
- PRODUCTS:**
- REINFORCING STEEL: ASTM A615, GRADE 60, DEFORMED
 - WELDED WIRE REINFORCEMENT (WWR): ASTM A1064
 - WELDING OF REINFORCING STEEL:
 - LOW HYDROGEN ELECTRODE FROM AWS D1.4, TABLE 5.1
 - REINFORCING BARS TO BE WELDED: CONFORM TO THE REQUIREMENTS OF ASTM A706. WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, PERFORM CHEMICAL TESTS TO DETERMINE WELDABILITY IN ACCORDANCE WITH AWS D1.4
 - MECHANICAL COUPLING DEVICES: CONFORM TO ACI 318, 18.2.7.1 AND TESTED ACCORDING TO ICC-ES ACCEPTANCE CRITERIA FOR MECHANICAL CONNECTOR SYSTEMS FOR STEEL REINFORCING BARS (AC133).
 - TYPE 1: PROVIDE IN LOCATIONS THAT DO NOT REQUIRE TYPE 2 AS NOTED BELOW
 - TYPE 2: PROVIDE WHERE MECHANICAL SPLICES ARE SPECIFIED IN IN CONCRETE MOMENT FRAMES, SHEARWALLS, CONCRETE DIAPHRAGMS, AND WHERE INDICATED IN THE DRAWINGS.
 - WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, MECHANICAL DEVICES IS SUBJECT TO APPROVAL OF THE ARCHITECT.
 - HEADED DEFORMED BARS: ASTM A970, CLASS HA.

- EXECUTION:**
- DELIVER, STORE, AND HANDLE STEEL REINFORCEMENT TO PREVENT BENDING AND DAMAGE.
 - CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH, ICE, GREASE, AND OTHER FOREIGN MATERIAL THAT REDUCE BOND TO CONCRETE.
 - ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. LOCATE AND SUPPORT REINFORCEMENT WITH BAR SUPPORTS TO MAINTAIN MINIMUM CONCRETE COVER. DO NOT TACK WELD CROSSING REINFORCING BARS.
 - MARK REINFORCING BARS SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. CLEARLY MARK ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
 - INSTALL MECHANICAL COUPLING DEVICES AND HEADED DEFORMED BARS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND CODE EVALUATION REPORT.
 - FIELD QUALITY CONTROL:
 - THE OWNER WILL RETAIN A SPECIAL INSPECTOR AND QUALIFIED TESTING AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTS AS IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTION.
 - PROVIDE THE MINIMUM CONCRETE COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) AS INDICATED IN THE TABLE BELOW.

MINIMUM CONCRETE CLEAR COVER		
LOCATION	BAR SIZE	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	#6 & LARGER	2"
	#5 & SMALLER	1 1/2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	#14 & LARGER	1 1/2"
	#11 & SMALLER	3/4"
BEAM AND COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	1 1/2"

TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS PERIODIC		
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	1B 1705.6 1705.6	GEOTECHNICAL REPORT	-	X	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			-	X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.			-	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			X	-	
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			-	X	

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS PERIODIC		
FABRICATION					
INSPECTION IN FABRICATION SHOP	1704.2.5				WHERE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION.
CONCRETE					
INSPECT REINFORCEMENT, INCLUDING EMBEDMENTS AND PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	1B 1705.3(1) 1705.3 1908.4	ACI 318: 20, 25.2-25.3, 26.6.1-26.6.3, 26.8, 26.13.3		X	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318: 26.6

CAST-IN-PLACE CONCRETE CONTINUED:

- EXECUTION:**
- CONFORM TO ASTM C94 FOR CONCRETE MIXING OPERATIONS.
 - CONFORM TO ACI 306.1 FOR COLD-WEATHER PLACEMENT AND ACI 301 FOR HOT-WEATHER PLACEMENT.
 - PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. CURE CONCRETE ACCORDING TO ACI 308.1.
 - COMPLY WITH ACI 318 AND ACI 301 FOR DESIGN, INSTALLATION, AND REMOVAL OF SHORING AND RESHORING.
 - PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE SETTING DRAWINGS, TEMPLATES, ETC. REQUIRED TO POSITION AND SECURE EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT.
 - INSTALL ANCHOR RODS TO ELEVATIONS REQUIRED AND COMPLYING WITH TOLERANCES IN SECTION 7.5 OF AISC 303.
 - INSTALL CONSTRUCTION JOINTS SO STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED OR AS APPROVED BY THE ARCHITECT.
 - OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - PIPES AND CONDUITS EMBEDDED IN CONCRETE:
 - PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ARCHITECT.
 - PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
 - DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND 1 1/2" CLEAR FROM REINFORCING BARS.
 - NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
 - PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND APPROVAL.
 - SCREED CONCRETE FILL OVER STEEL DECK TO A CONSTANT THICKNESS AS SPECIFIED IN THE DECKING SCHEDULE. DO NOT EXCEED THE SPECIFIED DECK THICKNESS BY MORE THAN 1/2".
 - PROVIDE 3/4" CHAMFER AT EXTERIOR CONCRETE CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE UNLESS NOTED OTHERWISE.
 - ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
 - FIELD QUALITY CONTROL:
 - THE OWNER WILL RETAIN A SPECIAL INSPECTOR AND QUALIFIED TESTING AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTS AS IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTION.

DESIGN CRITERIA:

ALL THE DESIGN LOADS ARE PROVIDED BY THE CONTAINER MANUFACTURER

FOUNDATION:

GEOTECHNICAL INVESTIGATION:

- GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

REPORT/ADDENDUM TITLE	PREPARED BY	DATE

GEOTECHNICAL DESIGN CRITERIA:

1. SPREAD OR CONTINUOUS FOOTINGS:

ANTICIPATED BEARING MATERIAL	ALLOWABLE BEARING CAPACITY	MINIMUM FROST DEPTH	ALLOWABLE LATERAL RESISTANCE		SUBGRADE MODULUS
			PASSIVE RESISTANCE	COEFFICIENT OF FRICTION	

FOUNDATION REQUIREMENTS:

- STRUCTURAL FILL: COMPACT ALL SOIL BELOW FOUNDATIONS AND SLABS-ON-GRADE TO MINIMUM 95% OF OPTIMUM DRY DENSITY PER ASTM D1557.
- FROST PROTECTION: AT EXTERIOR FOOTINGS, PROVIDE MINIMUM FROST DEPTH INDICATED IN SCHEDULE FROM LOWEST ADJACENT GRADE TO BOTTOM OF FOOTING. VERIFY THAT FOOTING ELEVATIONS AND FINAL GRADES INDICATED WILL PROVIDE THIS MINIMUM DEPTH. NOTIFY ARCHITECT OF ANY LOCATIONS THAT MAY NOT ACHIEVE THIS MINIMUM FROST DEPTH.
- PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
- EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
- DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH.
- REMOVE ALL ABANDONED FOOTINGS, UTILITIES, ETC. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
- THE DESIGN GROUNDWATER ELEVATION IS ___ FEET BELOW EXISTING GRADE PER THE GEOTECHNICAL INVESTIGATION REPORT.

CAST-IN-PLACE CONCRETE:

- GENERAL:**
- COMPLY WITH THE PROVISIONS OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.
 - MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES."
 - QUALIFICATIONS:
 - INSTALLER QUALIFICATIONS: ACI-CERTIFIED CONCRETE FLATWORK TECHNICIAN
 - MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES"
 - SUBMITTALS:
 - DESIGN MIXTURES FOR EACH CONCRETE MIXTURE. INCLUDE THE FOLLOWING WITH EACH MIX DESIGN:
 - INTENDED LOCATION OR USE OF THE MIX DESIGN
 - SUPPORTING STRENGTH TEST DATA
 - STATISTICAL ANALYSIS, DEMONSTRATING COMPLIANCE WITH ACI 301
 - WATER/CEMENT RATIO
 - SLUMP, WHEN HIGH RANGE WATER REDUCING ADMIXTURES ARE USED, INDICATE SLUMP BEFORE AND AFTER ADDITION OF ADMIXTURE.
 - GRADATION OF FINE AND COURSE AGGREGATE
 - AIR CONTENT OF FRESHLY MIXED CONCRETE
 - MATERIAL CERTIFICATES FOR CEMENTITIOUS MATERIALS AND ADMIXTURES
 - AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE
 - CONSTRUCTION JOINT LAYOUT

PRODUCTS:

- OBTAIN EACH TYPE OR CLASS OF CEMENTITIOUS MATERIAL OF THE SAME BRAND FROM THE SAME MANUFACTURER'S PLANT. OBTAIN AGGREGATE FROM A SINGLE SOURCE, AND OBTAIN ADMIXTURES FROM A SINGLE MANUFACTURER.
- PORTLAND CEMENT: ASTM C-150, TYPE II
- NORMAL WEIGHT AGGREGATE: ASTM C33
- LIGHT WEIGHT AGGREGATE: ASTM C330.
- FLY ASH: ASTM C618, CLASS F
- ADMIXTURES:
 - AIR ENTRAINMENT: ASTM C260
 - CHEMICAL ADMIXTURES: ASTM C494
 - PLASTICIZING ADMIXTURES: ASTM C1017
- CONCRETE MIXTURES: PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURES OR FIELD TEST DATA OR BOTH, ACCORDING TO ACI 301.
 - PROVIDE CONCRETE MIXTURES THAT MEET THE DURABILITY REQUIREMENTS OF ACI 318, CHAPTER 19, BASED ON EXPOSURE CATEGORIES INDICATED IN TABLE BELOW.
 - CEMENTITIOUS MATERIAL CONTENT: IN ADDITION TO W/C RATIO INDICATED IN TABLE, PROVIDE CONCRETE WITH MINIMUM CEMENTITIOUS MATERIAL CONTENT AS INDICATED IN ACI 301, TABLE 4.2.2.1 FOR SLABS/FLOORS.
 - LIMIT WEIGHT OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT TO THOSE INDICATED IN ACI 301.
 - USE WATER-REDUCING ADMIXTURES AS REQUIRED FOR PLACEMENT AND WORKABILITY.
 - SLUMP: 4" ± 1"
 - WATER REDUCING OR PLASTIZING ADMIXTURES ARE PERMITTED TO INCREASE THE SLUMP TO A MAXIMUM OF 8 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES PRIOR TO ADDING ADMIXTURES.
 - LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.06 PERCENT BY WEIGHT OF CEMENT.

CONCRETE MIXTURES				
LOCATIONS IN STRUCTURE	DESIGN STRENGTH	MAX UNIT WEIGHT	MAX W/C RATIO	EXPOSURE CATEGORIES
FOUNDATIONS	4,500 PSI	145 PCF	0.45	F2, SO, W0, CO
SLAB ON GRADE	4,500 PSI	145 PCF	0.45	F2, SO, W0, CO

GENERAL:

- STRUCTURAL DRAWINGS:**
- STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH OTHER DRAWINGS, SPECIFICATIONS, AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT.
 - REVIEW AND COORDINATE THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
 - NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- CODE REQUIREMENTS AND REFERENCED STANDARDS:**
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
 - 2018 INTERNATIONAL BUILDING CODE (IBC) AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE"; AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
 - ASTM SPECIFICATIONS AND REFERENCED STANDARDS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
- EXISTING CONDITIONS:**
- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT ANY DISCREPANCIES OR INCONSISTENCIES.
 - INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.

TEMPORARY CONDITIONS:

- THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCE OF THE BUILDINGS TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC.
- SPREAD OUT CONSTRUCTION MATERIALS IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OTHER DRAWINGS:

- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
 - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
 - SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
 - SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
 - FLOOR AND ROOF FINISHES
 - MISCELLANEOUS DRAINAGE AND WATERPROOFING
 - ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
 - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
 - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
 - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

TESTING, INSPECTIONS, AND OBSERVATIONS

- STRUCTURAL OBSERVATIONS:**
- KPFF WILL PERFORM STRUCTURAL OBSERVATION BASED ON THE REQUIREMENTS OF CHAPTER 17 OF THE CODE THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL NOTIFY ARCHITECT AND PROVIDE ACCESS FOR KPFF TO PERFORM THESE OBSERVATIONS.
 - KPFF WILL ISSUE AN OBSERVATION REPORT TO ARCHITECT FOR DISTRIBUTION TO THE OWNER AND CONTRACTOR. OBSERVATION REPORT WILL IDENTIFY WORK OBSERVED AND ANY WORK NOT IN CONFORMANCE WITH CONTRACT DOCUMENTS.
 - STRUCTURAL OBSERVATION IS TO VERIFY GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS. STRUCTURAL OBSERVATIONS DO NOT REPLACE THE NEED FOR SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE CODE.

STRUCTURAL OBSERVATIONS	
ITEM	TIMING/FREQUENCY OF OBSERVATION
A. FOUNDATIONS	PRIOR TO FIRST CONCRETE PLACEMENT, AFTER REINFORCING IS INSTALLED AND TIED.

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

- SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE IBC AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
- REFERENCE CODES AND STANDARDS ARE THOSE REFERENCED IN CHAPTER 35 OF THE CODE.
- SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 329 (MATERIALS), ASTM D 3740 (SOILS), AS 1077 (CONCRETE), AND ASTM E 541 (NON-DESTRUCTIVE). SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
- WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC/ACI/PMO EVALUATION REPORT INSPECTIONS SHALL BE AS FOLLOWS:
 - FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE.
 - FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ON SITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC/ACI/PMO EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER'S INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER. INSPECTOR SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON-COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON-COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE-INSTALLATION.
 - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
 - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.
- OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM THESE TASKS FOR EACH ELEMENT.
- INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.



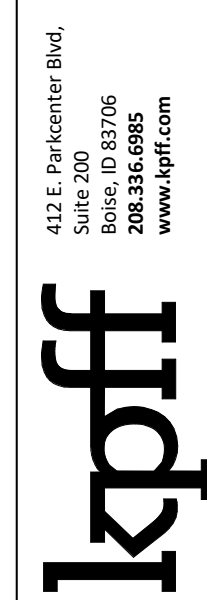
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Project: TWIN FALLS FIRE DEPARTMENT JIM BIERI REGIONAL FIRE TRAINING FACILITY

430 VICTORY AVE, TWIN FALLS, ID 83301



Project No: 120104
Date: 02.04.2022
Checked By: JW
Drawn By: SM
Sheet Name:

GENERAL NOTES & STATEMENT OF SPECIAL INSPECTIONS

Sheet No:

S0.01

SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

1

2

3

4

5

6

A

B

C

D

E

COMBINED FOOTING SCHEDULE				
TYPE MARK	DIMENSIONS		REINFORCING	TYPE COMMENTS
	WIDTH	DEPTH		
F2.0	2'-0"	1'-0"	PER PLAN	6/S2.00
F4.0	4'-0"	2'-0"	PER PLAN	6/S2.00

POINT LOAD	DEAD LOAD (DL) (kips)	LIVE LOAD (kips)	SNOW LOAD (kips)	WIND APPLIED ON A SIDE		WIND APPLIED ON D SIDE		SEISMIC LOADING	
				VERTICAL DIRECTION (kips)	LATERAL DIRECTION (kips)	VERTICAL DIRECTION (kips)	LATERAL DIRECTION (kips)	VERTICAL DIRECTION (kips)	LATERAL DIRECTION (kips)
N1	10.32	11	2.4	2.6	0.8	1.6	1.5	(+/-)0.45	2
N2	10.32	17.3	3.5	2.7	0.8	-1.7	2.6	(+/-)0.45	2
N3	16.11	16.3	4	3.7	1.7	2.4	2.6	(+/-)1.2	3.4
N4	16.73	16.3	3.5	3.7	1.7	-3	5.4	(+/-)1.2	3.4
N5	8.37	14.5	3.6	2.5	1.6	2.6	2.7	(+/-)1.3	3.5
N6	8.99	14.4	3.6	2.5	1.6	-2.9	4.8	(+/-)1.3	3.5
N7	2.58	8.5	2.1	-1.7	1.4	1.4	1	(+/-)5	1.6
N8	2.58	8.9	2.3	-1.7	1.4	-1.3	1.1	(+/-)4.5	1.3
N40	0.6	1.5	0.5	(+/-)5	0.5	0	0.5	0	0
N41	0.6	1.5	0.5	(+/-)5	0.5	0	0.5	0	0
N42	0.6	1.5	0.5	(+/-)5	0.5	0	0.5	0	0
N43	0.6	2	0.5	(+/-)5	0.5	0	0.5	0	0
N44	0.6	2	0.5	(+/-)6	0.5	0	0.5	0	0
N45	0.6	2	0.5	(+/-)6	0.5	0	0.5	0	0

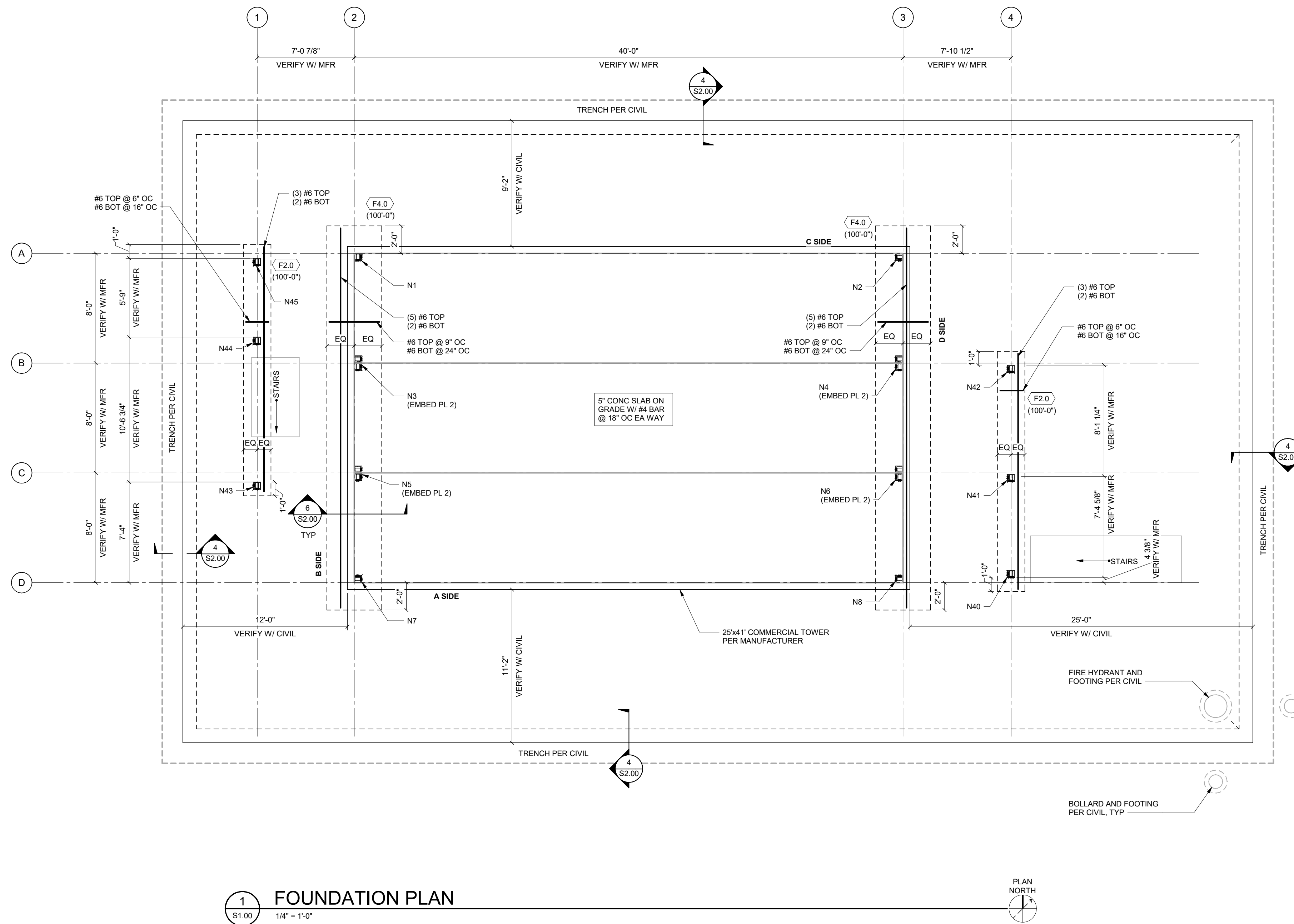
FOUNDATION LOAD TABLE PROVIDED BY MANUFACTURER

GENERAL PLAN NOTES:

- G1 REFERENCE DRAWINGS:
S0.0X - GENERAL STRUCTURAL NOTES
S2.0X - TYPICAL CONCRETE DETAILS
- G2 SEE SHEET S0.00 FOR TYPICAL SYMBOLS

FOUNDATION PLAN NOTES:

- F1 TOP OF SLAB-ON-GRADE PER ARCHITECT. NO APPRATUS TIRE LOADING OR OUTRIGGER LOADING ALLOWED ON SLAB-ON-GRADE.
- F2 GEOTECHNICAL ENGINEER SHALL OBSERVE THE FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF THE REINFORCING STEEL.
- F3 COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL UNDER-SLAB UTILITY LOCATIONS, TRENCHES, AND FLOOR SINKS. ALL UTILITIES THAT CROSS FOUNDATIONS SHALL BE PLACED BELOW FOOTINGS PER
- F3 (FXX) INDICATES FOOTING TYPE PER SCHEDULE. (X'-X') INDICATES TOP OF FOOTING ELEVATION.
- F4 NX INDICATES ATTACHMENT NODES FOR CONTAINERS PER MANUFACTURER. SEE FOUNDATION LOAD TABLE FOR LOADS PROVIDED BY MANUFACTURER.



1 FOUNDATION PLAN
1/4" = 1'-0"



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Project No: 120104
Date: 02.04.2022
Checked By: JW
Drawn By: SM

Sheet Name: FOUNDATION PLAN

Sheet No:

S1.00

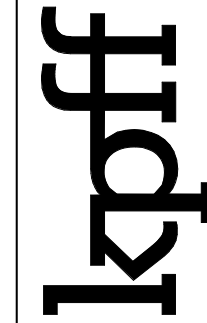


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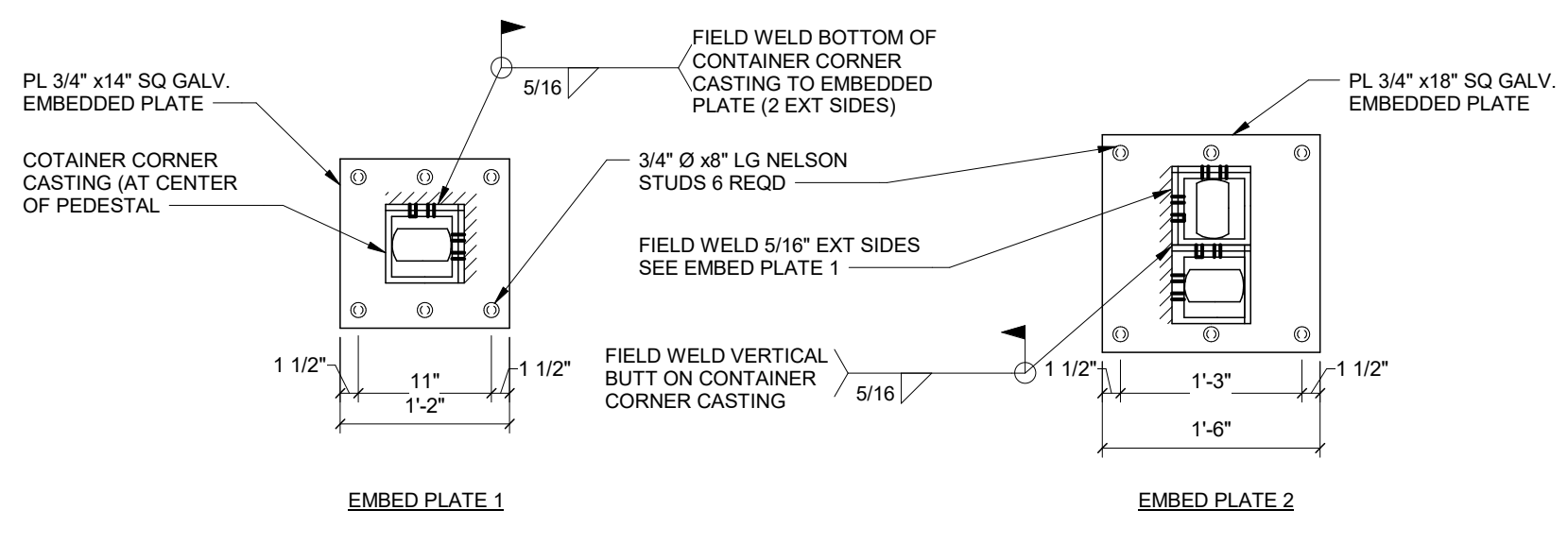
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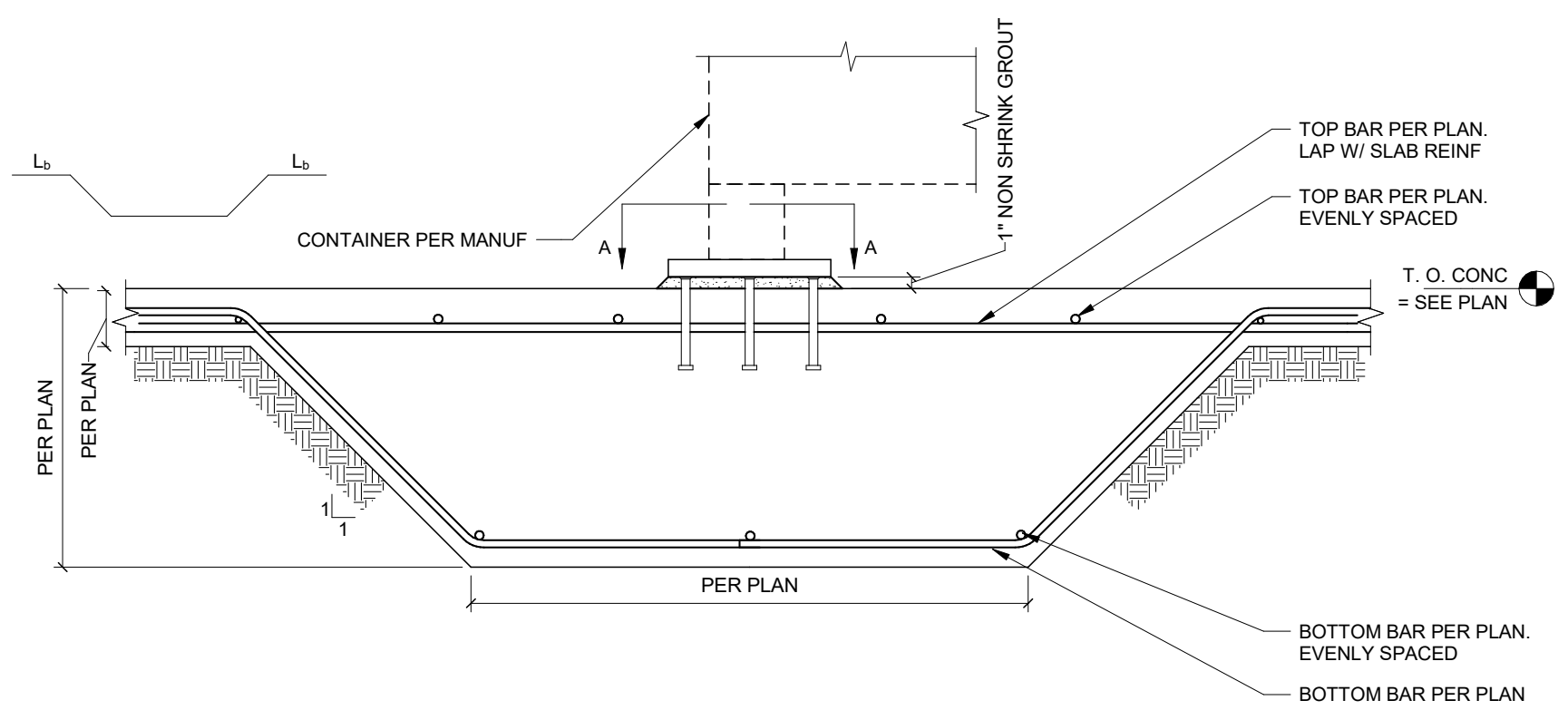


A



NOTE:
USE EMBED PL 1 UNO.
USE EMBED PLATE 2 FOR SPECIFIC NODES PER PLAN

SECTION A-A



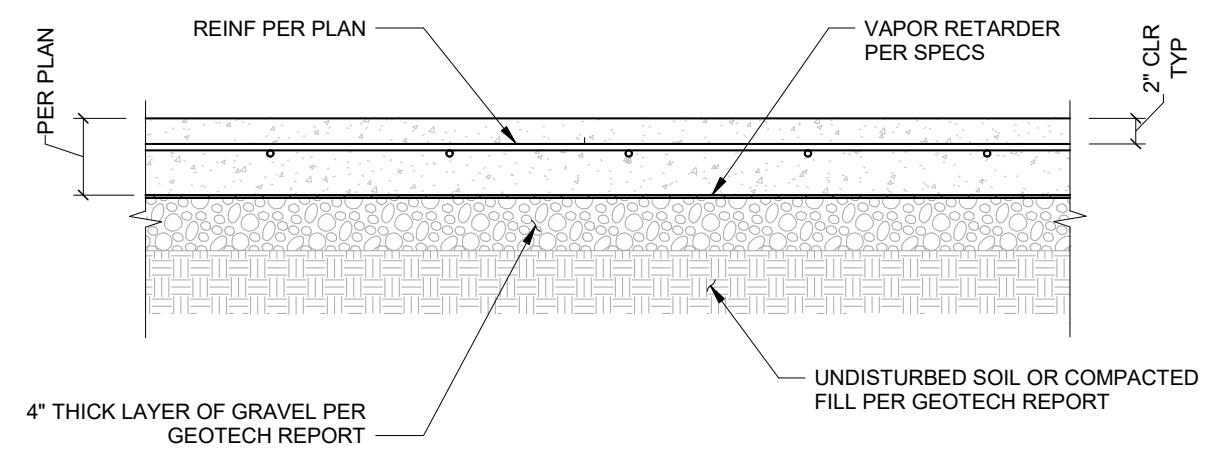
6 CONTAINER ATTACHMENT TO FOOTING DETAIL
S2.00 1" = 1'-0"

B

C

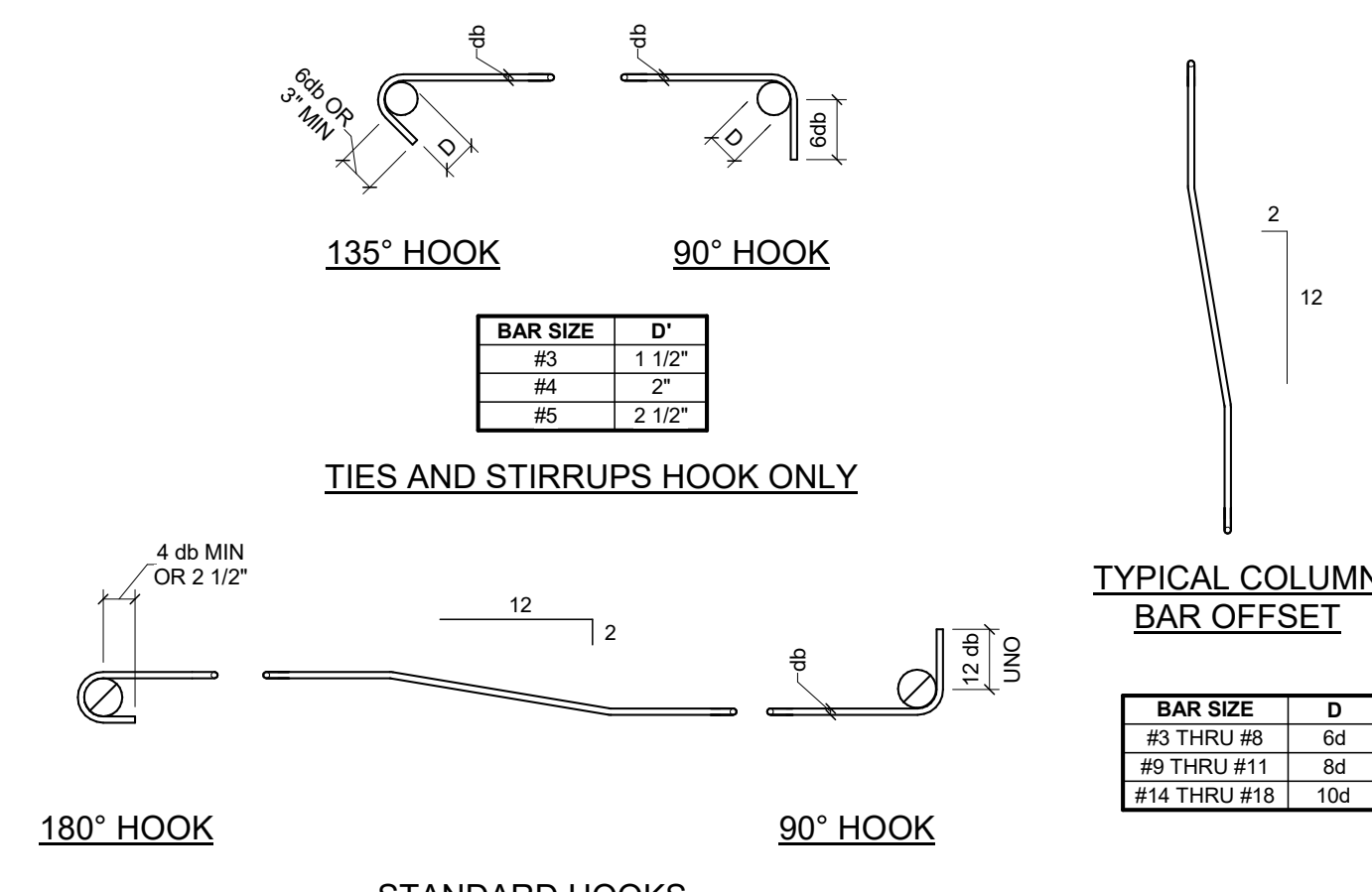
D

E

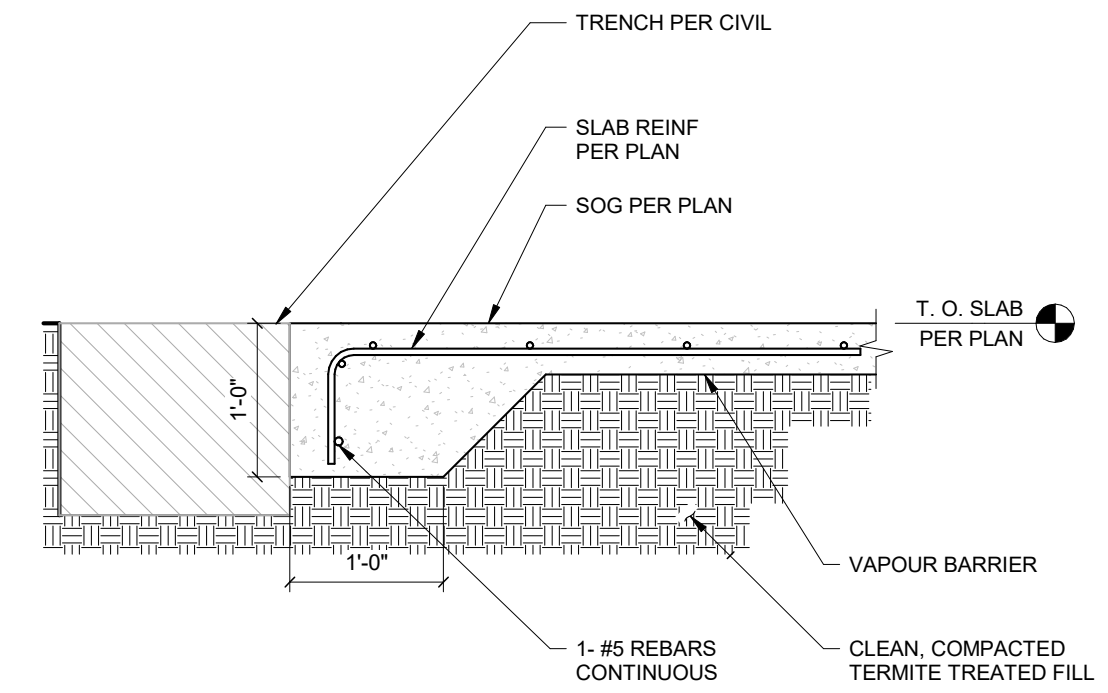


NOTES:
1. DO NOT TO PUNCTURE VAPOR RETARDER UNLESS AN APPROVED REPAIR OF THE VAPOR RETARDER IS PERFORMED PER THE MANUFACTURERS REQUIREMENTS.
2. VAPOR RETARDER TO TERMINATE AT EDGE OF BELOW GRADE FOOTINGS AND PITS.
3. VAPOR RETARDER MAY BE OMITTED AT EXTERIOR LOCATIONS WHERE APPROVED BY ARCH.
4. REFER TO GEOTECH REPORT AND PROJECT SPECIFICATIONS FOR SUBGRADE PREPARATION REQUIREMENTS.

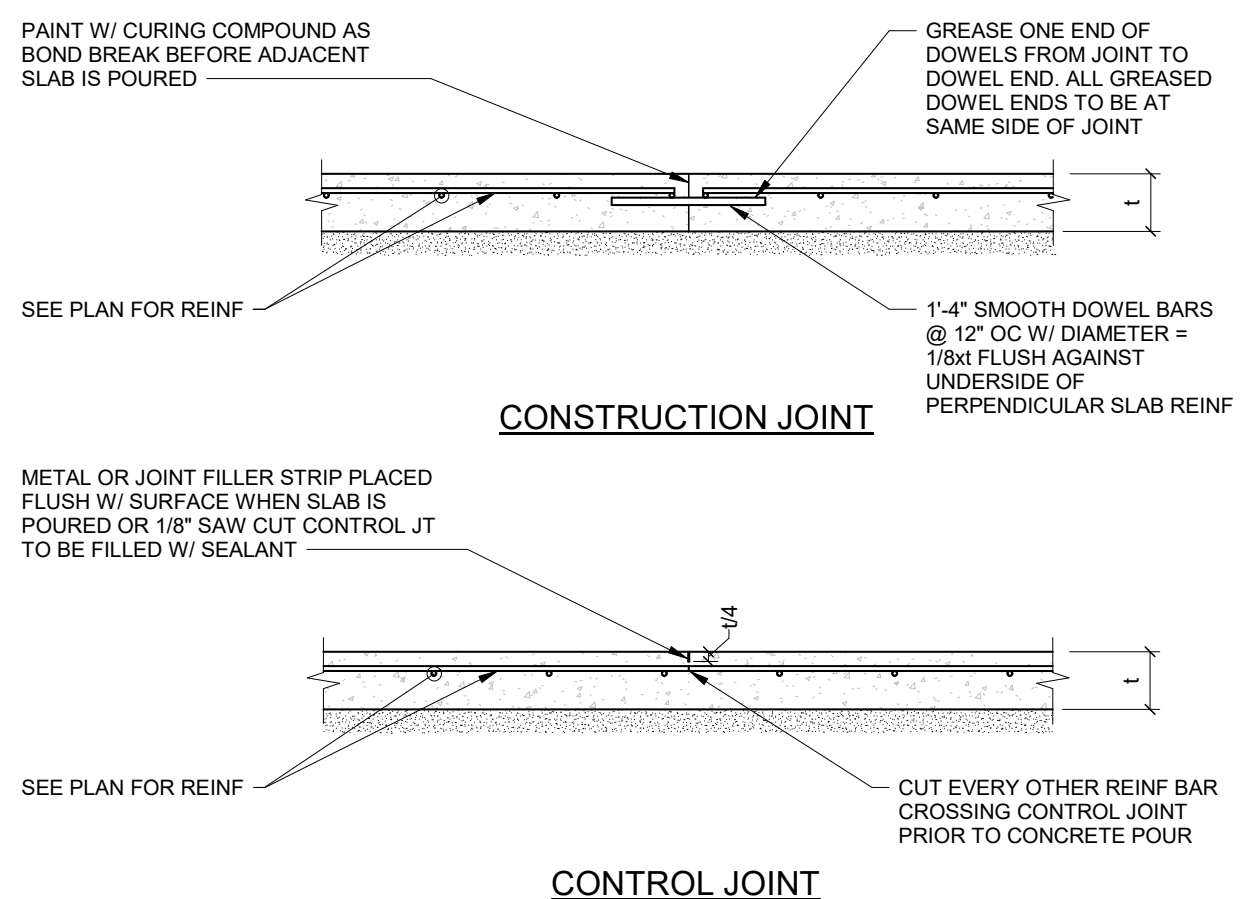
3 SLAB ON GRADE
S2.00 NO SCALE



1 REINFORCING BAR BENDING DETAIL
S2.00 NO SCALE

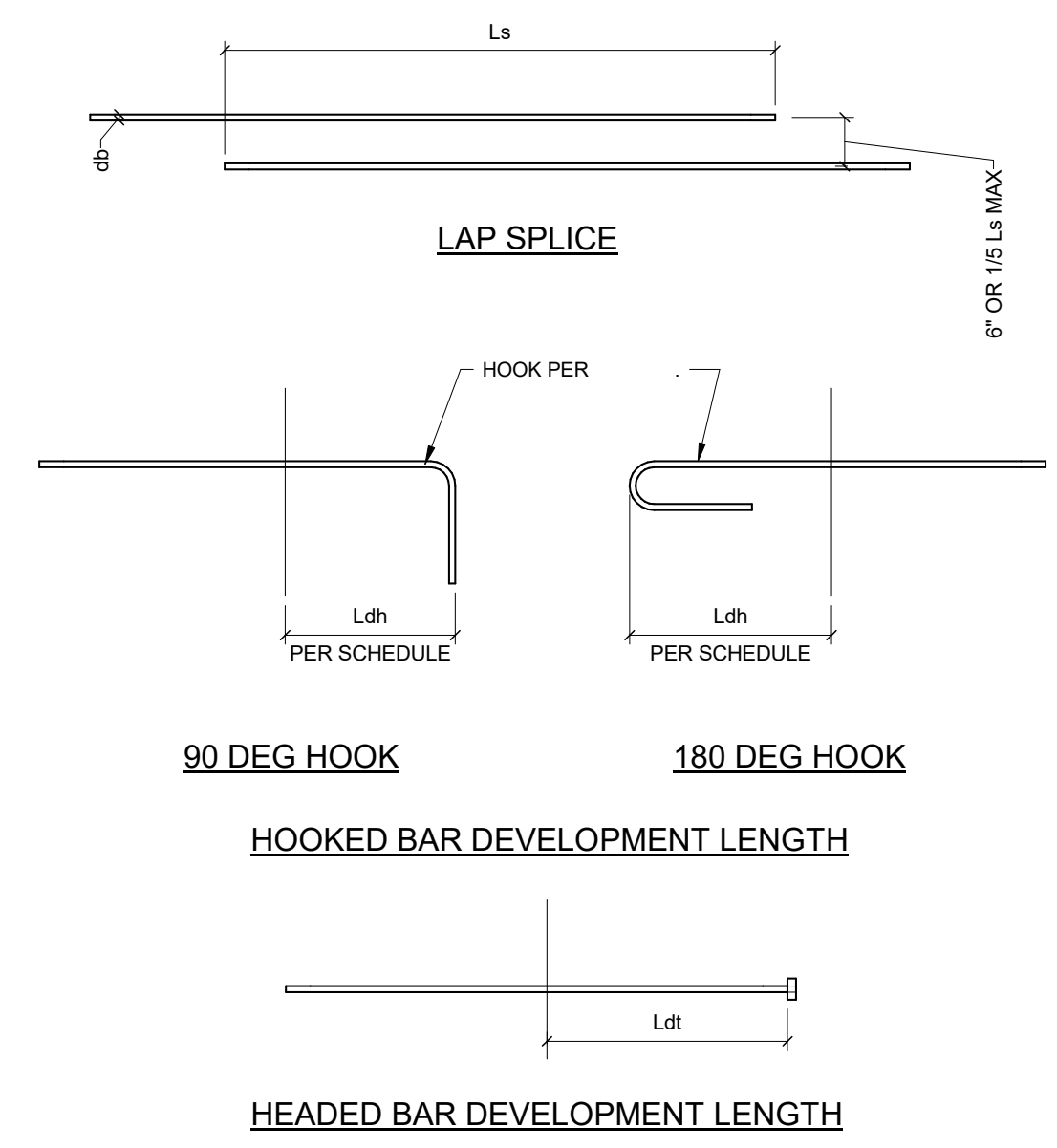


4 SLAB TURNDOWN
S2.00 1" = 1'-0"



NOTES:
1. REFER TO PLAN FOR SLAB THICKNESS AND REINFORCING.
2. CONTROL JOINTS TO BE SPACED @ 20'-0" OC MAX. EACH WAY, UNLESS NOTED OTHERWISE. RATIO OF DISTANCE BETWEEN CONTROL JOINTS IN EACH DIRECTION FOR A SLAB PANEL SHALL NOT EXCEED 1.5. CONSTRUCTION JOINTS PER THIS DETAIL SHALL BE CONSIDERED AS CONTROL JOINTS FOR CONTROL JOINT SPACING REQUIREMENTS.

5 TYP SOG CONTROL & CONSTRUCTION JOINTS
S2.00 NO SCALE



BAR SIZE	TOP BARS		OTHERS BARS		L _{dh}	L _{dt}
	L _d	L _s	L _d	L _s		
#4	25"	32"	19"	25"	9"	8"
#5	31"	40"	24"	31"	12"	10"
#6	37"	48"	28"	37"	14"	12"
#7	54"	70"	42"	54"	17"	14"
#8	62"	80"	47"	62"	19"	16"
#9	70"	90"	54"	70"	21"	18"
#10	78"	102"	60"	78"	24"	20"
#11	87"	113"	67"	87"	27"	22"

NOTES:
1. DEVELOPMENT LENGTHS ARE FOR 4 ksi CONCRETE
2. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
3. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

ABBREVIATIONS
d_b = BAR DIAMETER
L_d = DEVELOPMENT LENGTH
L_s = CLASS B LAP SPLICE LENGTH
L_{dh} = HOOKED BAR DEVELOPMENT LENGTH
L_{dt} = TERMINATOR DEVELOPMENT LENGTH

2 DEVELOPMENT AND SPLICE LENGTH
S2.00 NO SCALE

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Sheet Name:
TYPICAL CONCRETE DETAILS

Sheet No:
S2.00