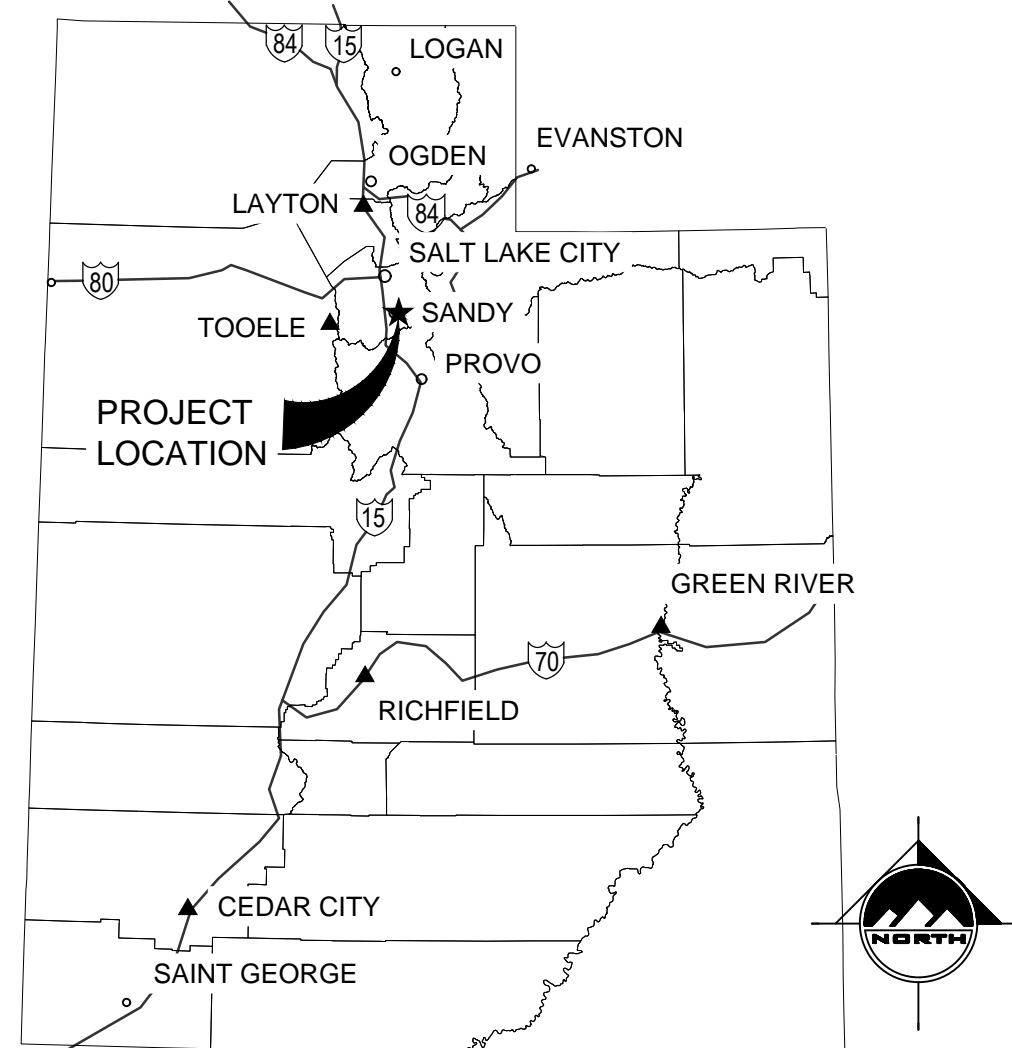


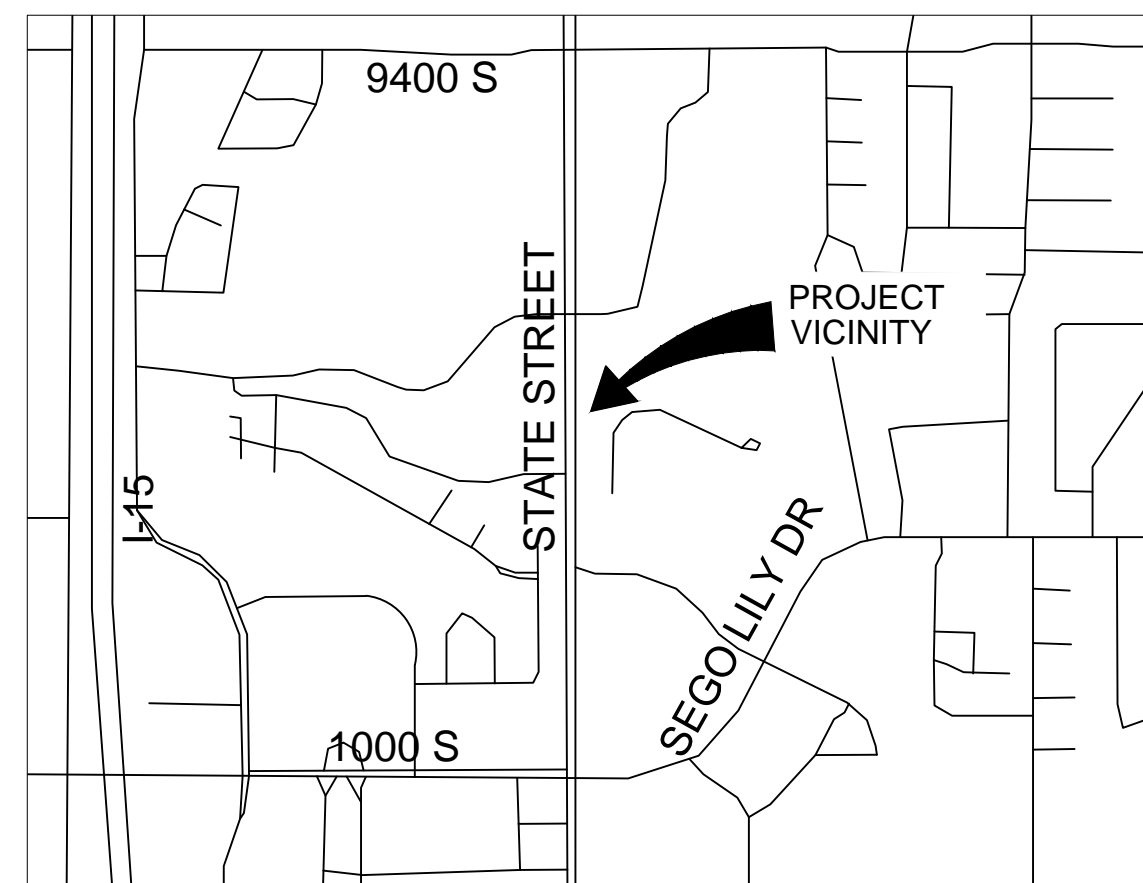
ENBRIDGE GAS

CANYONS SCHOOL DISTRICT LINE BREAK VALVE SITE

9725 STATE STREET
SANDY, UTAH 84070



LOCATION MAP
NO SCALE



VICINITY MAP
NO SCALE

PROJECT DRAWINGS		
GENERAL DRAWINGS		
DRAWING	REV	DESCRIPTION
ENB-B-FV11839-CCS-001 SHEET 01 OF 08	0	COVER SHEET
ENB-B-FV11839-CCS-001 SHEET 02 OF 08	0	GENERAL NOTES
CIVIL DRAWINGS		
ENB-B-FV11839-CCS-001 SHEET 03 OF 08	0	SITE PLAN
ENB-B-FV11839-CCS-001 SHEET 04 OF 08	0	GRADING PLAN
ENB-B-FV11839-CCS-001 SHEET 05 OF 08	0	UTILITY PLAN
ENB-B-FV11839-CCS-001 SHEET 06 OF 08	0	DETAILS
ENB-B-FV11839-CCS-001 SHEET 07 OF 08	0	LANDSCAPE AND IRRIGATION PLAN
ENB-B-FV11839-CCS-001 SHEET 08 OF 08	0	LANDSCAPE AND IRRIGATION DETAILS

NOTICE TO DEVELOPER/CONTRACTOR

UNAPPROVED DRAWINGS REPRESENT WORK IN PROGRESS, ARE SUBJECT TO CHANGE, AND DO NOT CONSTITUTE A FINISHED ENGINEERING PRODUCT. ANY WORK UNDERTAKEN BY DEVELOPER OR CONTRACTOR BEFORE PLANS ARE APPROVED IS UNDERTAKEN AT THE SOLE RISK OF THE DEVELOPER OR CONTRACTOR, INCLUDING BUT NOT LIMITED TO BIDS, ESTIMATION, FINANCING, BONDING, SITE CLEARING, GRADING, INFRASTRUCTURE CONSTRUCTION, ETC.

UTILITY DISCLAIMER

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

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTOR'S AND SUBCONTRACTOR'S COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

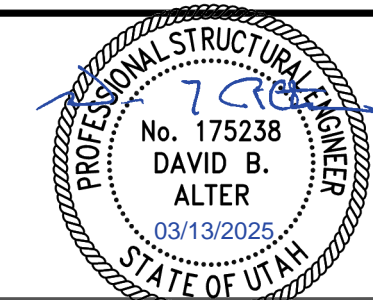
THE CONTRACTOR FURTHER AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

PROJECT CONTACTS

ROLE	NAME	PHONE
PROJECT MANAGER	CHAD LAIHO	906-251-0259
PROJECT ENGINEER	CHAD LAIHO	906-251-0259
CATHODIC PROTECTION	KELLY FACER	801-201-5528
HP SURVEYOR	ENOCH CLEMENCE	801-793-7950
LEAD INSPECTOR	TBD	
IHP SUPERVISOR	TBD	
RIGHT OF WAY AGENT	ANGELA BARBER	385-418-2557
MARKETING	N/A	
ENVIRONMENTAL HEALTH & SAFETY	STEPHAN RYDER	330-813-8805

POINT #	SURVEY CONTROL STAKEOUT TABLE			DESCRIPTION
	NORTHING	EASTING	ELEVATION	
40000	7380427.633	1531756.559	4474.010	FND 4" BRASS CAP NW SEC7
40001	7380427.224	1531847.264	4475.806	FND 3" BRASS CAP ST. MON.
40002	7377787.530	1531843.579	4443.585	FND 3" BRASS CAP ST. MON.
40047	7378402.008	1531887.640	4472.541	BENCHMARK MAG NAIL
10010	7378424.350	1531870.764	N/A	NORTH PIPELINE TIE IN
10011	7378387.853	1531871.040	N/A	SOUTH PIPELINE TIE IN
10012	7378377.070	1531897.390	N/A	ROW CORNER P.O.B.
10013	7378402.055	1531897.420	N/A	ROW CORNER
10014	7378402.043	1531899.850	N/A	ROW CORNER
10015	7378421.052	1531899.868	N/A	ROW CORNER
10016	7378420.938	1531932.443	N/A	ROW CORNER
10017	7378376.949	1531932.382	N/A	ROW CORNER

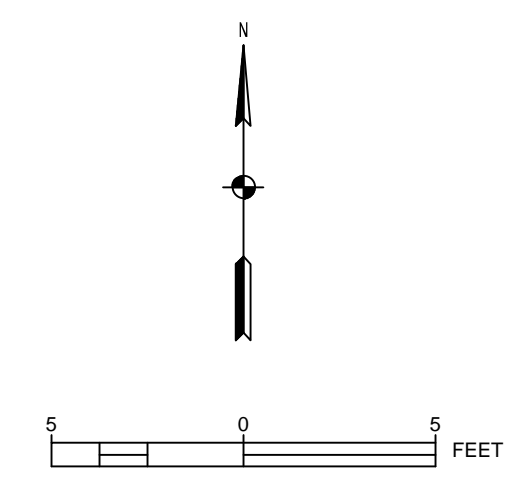
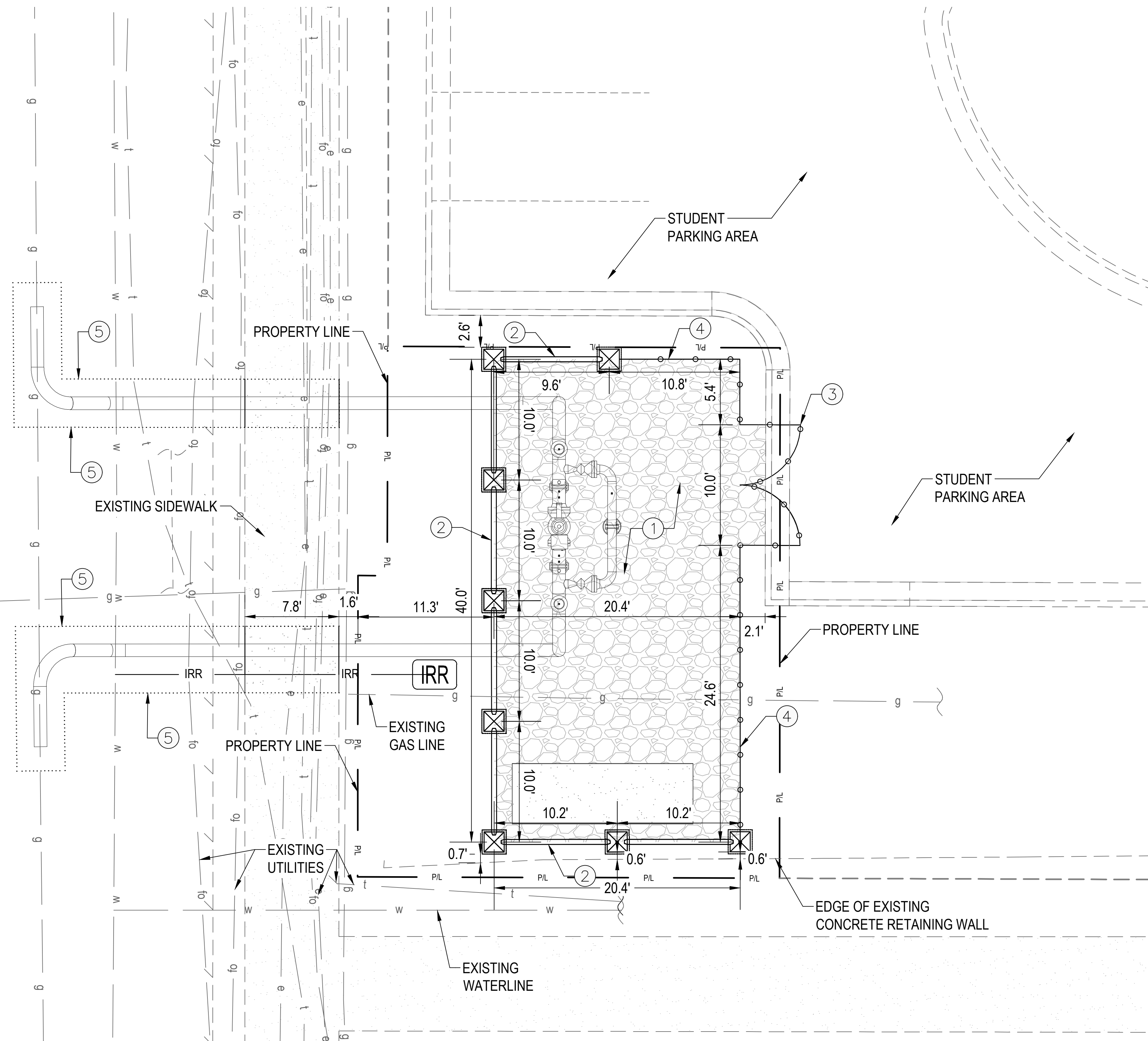
ISSUED FOR CONSTRUCTION



DATE PRINTED
03/11/2025

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD																	
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			98428.23	INSTALL NEW BLOCK VALVE FV11839	0	ISSUED FOR CONSTRUCTION	03/13/2025	JOL	ERB																
<table border="1"> <tr> <td>DRAWN BY:</td> <td>ENBRIDGE</td> </tr> <tr> <td>CHECKED BY:</td> <td>ERIC BUSH</td> </tr> <tr> <td>PROJECT ENGR:</td> <td>D. ALTER</td> </tr> <tr> <td>SURVEYOR:</td> <td>E. CLEMENCE</td> </tr> <tr> <td>ENGR MNGR:</td> <td>S. MCGEE</td> </tr> <tr> <td>CONSTR MNGR:</td> <td>S. PALMER</td> </tr> <tr> <td>MEAS & CTRLS:</td> <td></td> </tr> <tr> <td>AUTOM ENGR:</td> <td></td> </tr> </table>										DRAWN BY:	ENBRIDGE	CHECKED BY:	ERIC BUSH	PROJECT ENGR:	D. ALTER	SURVEYOR:	E. CLEMENCE	ENGR MNGR:	S. MCGEE	CONSTR MNGR:	S. PALMER	MEAS & CTRLS:		AUTOM ENGR:	
DRAWN BY:	ENBRIDGE																								
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<table border="1"> <tr> <td>SECTION:</td> <td>07 T3S R 1E</td> </tr> <tr> <td>ELEVATION:</td> <td>4477'</td> </tr> <tr> <td>LAT:</td> <td>40.5751</td> </tr> <tr> <td>LONG:</td> <td>-111.8904</td> </tr> <tr> <td>SCALE:</td> <td>AS SHOWN</td> </tr> </table>										SECTION:	07 T3S R 1E	ELEVATION:	4477'	LAT:	40.5751	LONG:	-111.8904	SCALE:	AS SHOWN						
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<p>THE INFORMATION AND CONCEPTS CONTAINED IN THIS DOCUMENT ARE CONFIDENTIAL AND THE PROPERTY OF ENBRIDGE GAS AND/OR THE CLIENT IDENTIFIED. DUPLICATION OR USE OF THIS INFORMATION AND/OR CONSTRUCTION OF SYSTEMS BASED ON THIS DOCUMENT ARE STRICTLY PROHIBITED WITHOUT WRITTEN AUTHORIZATION FROM ENBRIDGE GAS.</p>		<p>LINE NUMBER: FLO07 FACILITY: 12" BLOCK VALVE ASSEMBLY TITLE: LINE BREAK VALVE FV 11839 DESCRIPTION: COVER SHEET ADDRESS: 9725 STATE STREET</p>		<p>CITY SANDY COUNTY SALT LAKE STATE UTAH</p>		<p>DRAWING NUMBER ENB-B-FV11839-CCS-001 SHEET 01 OF 08 REVISION 0</p>																			

STATE STREET



GENERAL NOTES:

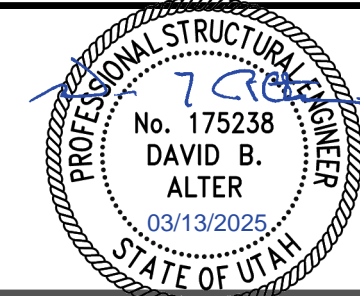
1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
3. SEE LANDSCAPE/ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SCORE PATTERNS THROUGHOUT SITE.
4. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
5. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
6. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE OR ASPHALT.
7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ① GRAVEL SECTION PER DETAIL 2/SHEET 5.
- ② PRECAST CONCRETE FENCE AND POSTS PER DETAIL 4/SHEET 5.
- ③ WROUGHT IRON GATE PER DETAIL 1/SHEET 5.
- ④ WROUGHT IRON FENCE PER DETAIL 3/SHEET 5.
- ⑤ SAWCUT EXISTING SIDEWALK AND ASPHALT TO NEAREST JOINT AND REMOVE AND REPLACE AS NEEDED PER SANDY CITY STANDARDS AND SPECIFICATIONS. MATCH EXISTING.

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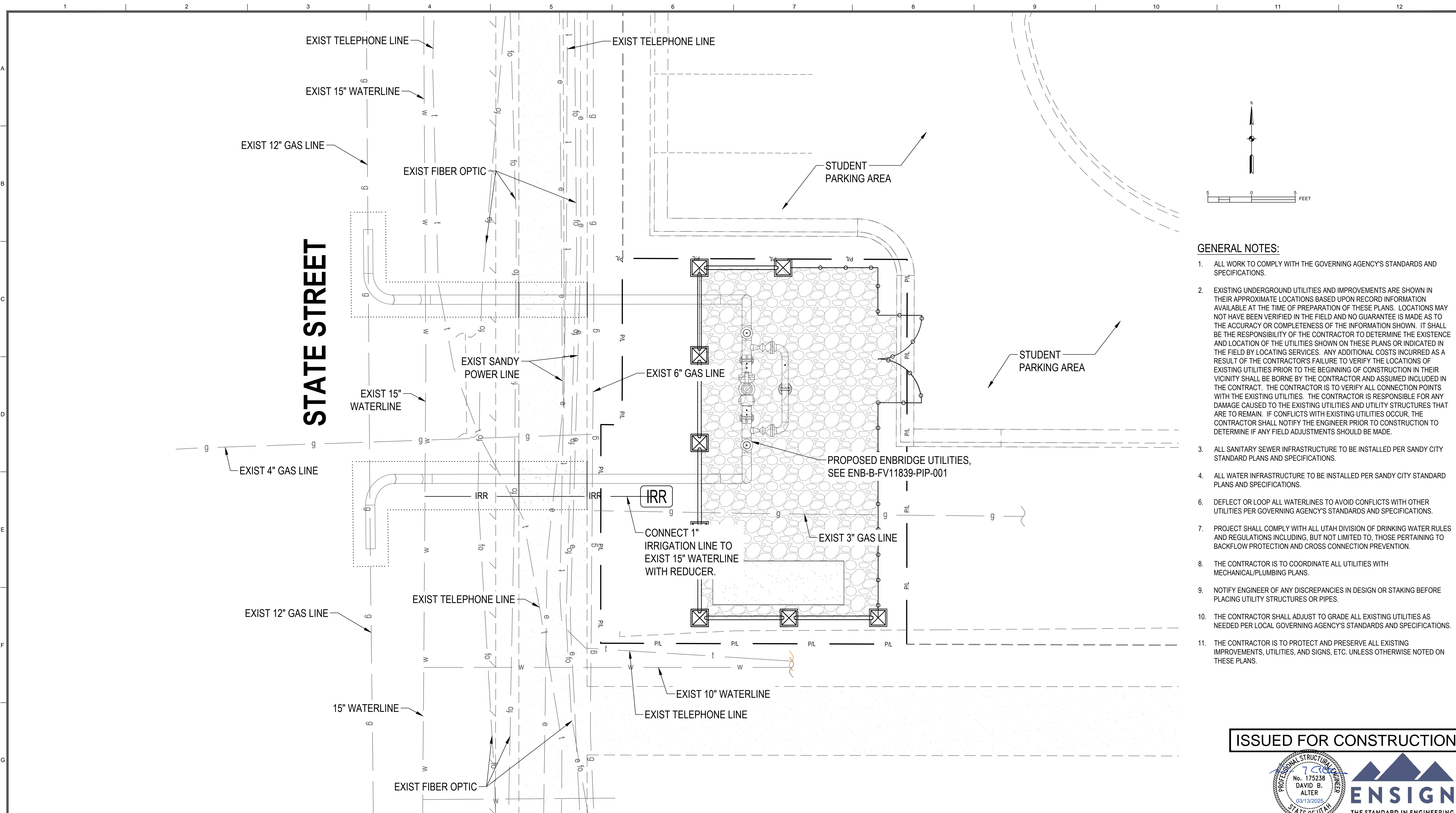
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			98428.23	INSTALL NEW BLOCK VALVE FV11839	0	ISSUED FOR CONSTRUCTION	03/13/2025	JOL	ERB	ENBRIDGE	ERIC BUSH	D. ALTER	E. CLEMENCE	S. MCGEE

SECTION: 07		T3S		R 1E	
ELEVATION: 4477'					
LAT: 40.5751		LONG: -111.8904			
SCALE: AS SHOWN					

LINE NUMBER:		FL007	
FACILITY:		12" BLOCK VALVE ASSEMBLY	
TITLE:		LINE BREAK VALVE FV 11839	
DESCRIPTION:		SITE PLAN	
ADDRESS:		9725 STATE STREET	
CITY	COUNTY	STATE	
SANDY	SALT LAKE	UTAH	
DRAWING NUMBER		SHEET	REVISION
ENB-B-FV11839-CCS-001		03 OF 08	0

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ENBRIDGE GAS_ANS1.D



GENERAL NOTES:

1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
3. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER SANDY CITY STANDARD PLANS AND SPECIFICATIONS.
4. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER SANDY CITY STANDARD PLANS AND SPECIFICATIONS.
6. DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
7. PROJECT SHALL COMPLY WITH ALL UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE PERTAINING TO BACKFLOW PROTECTION AND CROSS CONNECTION PREVENTION.
8. THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS.
9. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING UTILITY STRUCTURES OR PIPES.
10. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
11. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

ISSUED FOR CONSTRUCTION



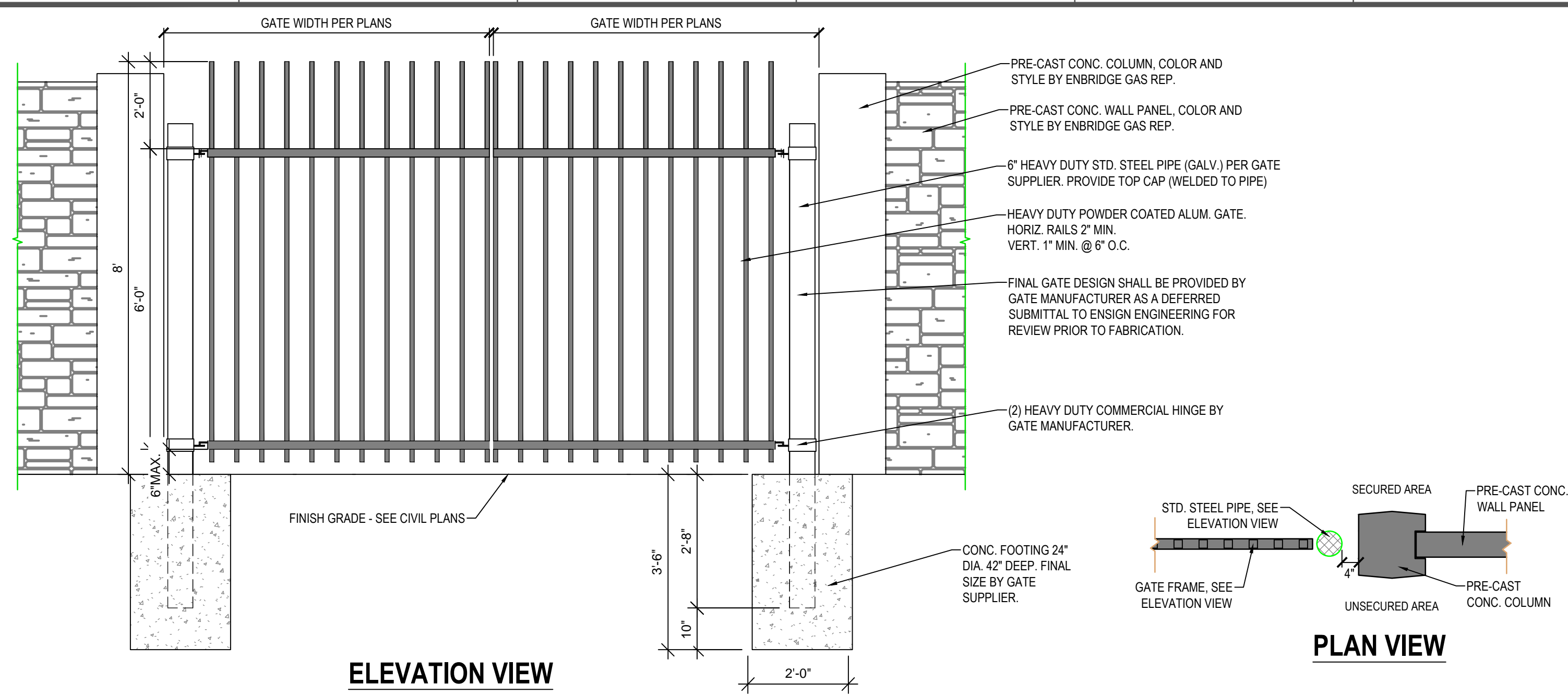
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			98428.23	INSTALL NEW BLOCK VALVE FV11839	0	ISSUED FOR CONSTRUCTION	03/13/2025	JOL	ERB	ENBRIDGE	

ENBRIDGE

SECTION: 07 T3S R 1E
 ELEVATION: 4477'
 LAT: 40.5751 LONG: -111.8904
 SCALE: AS SHOWN

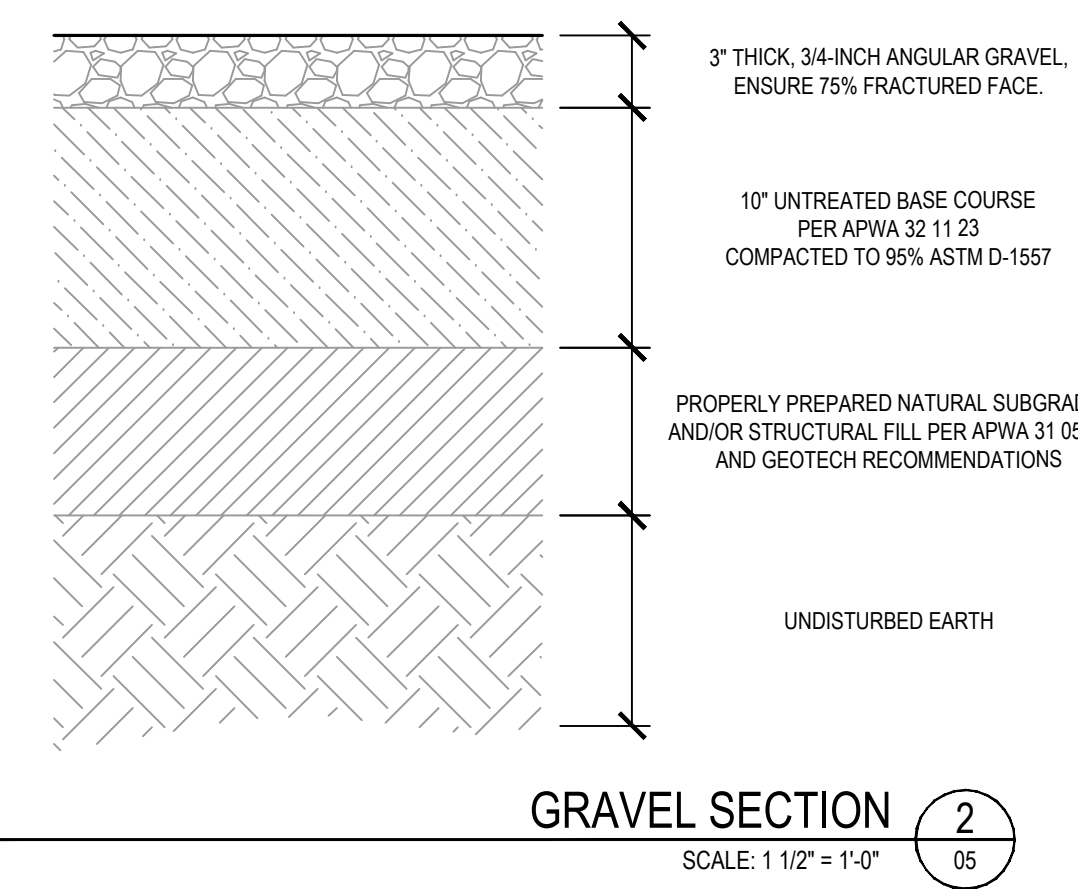
LINE NUMBER:	FL007		
FACILITY:	12" BLOCK VALVE ASSEMBLY		
TITLE:	LINE BREAK VALVE FV 11839		
DESCRIPTION:	UTILITY PLAN		
ADDRESS:	9725 STATE STREET		
CITY	COUNTY	STATE	
SANDY	SALT LAKE	UTAH	
DRAWING NUMBER		SHEET	REVISION
ENB-B-FV11839-CCS-001		05 OF 08	0



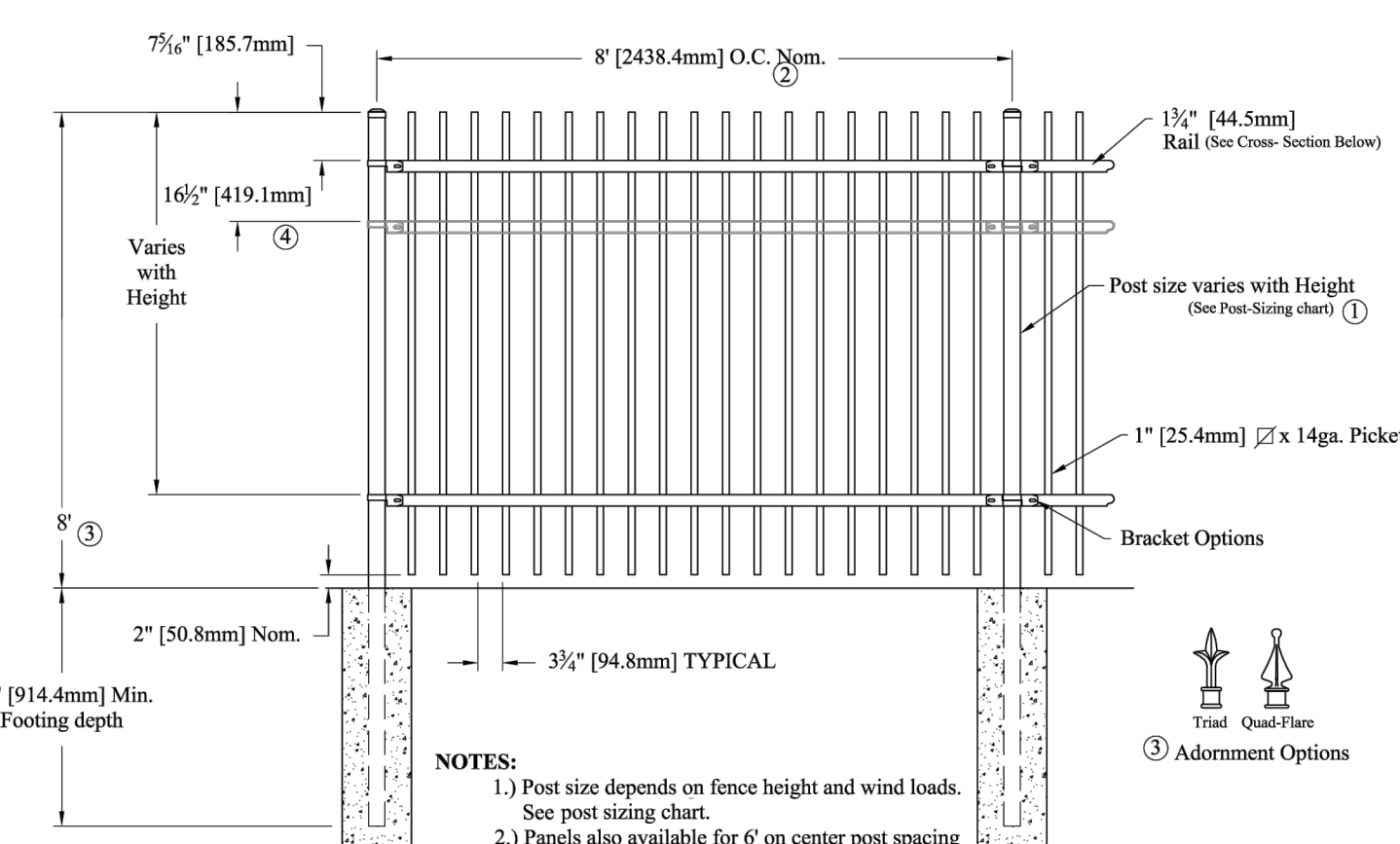
ELEVATION VIEW

PLAN VIEW

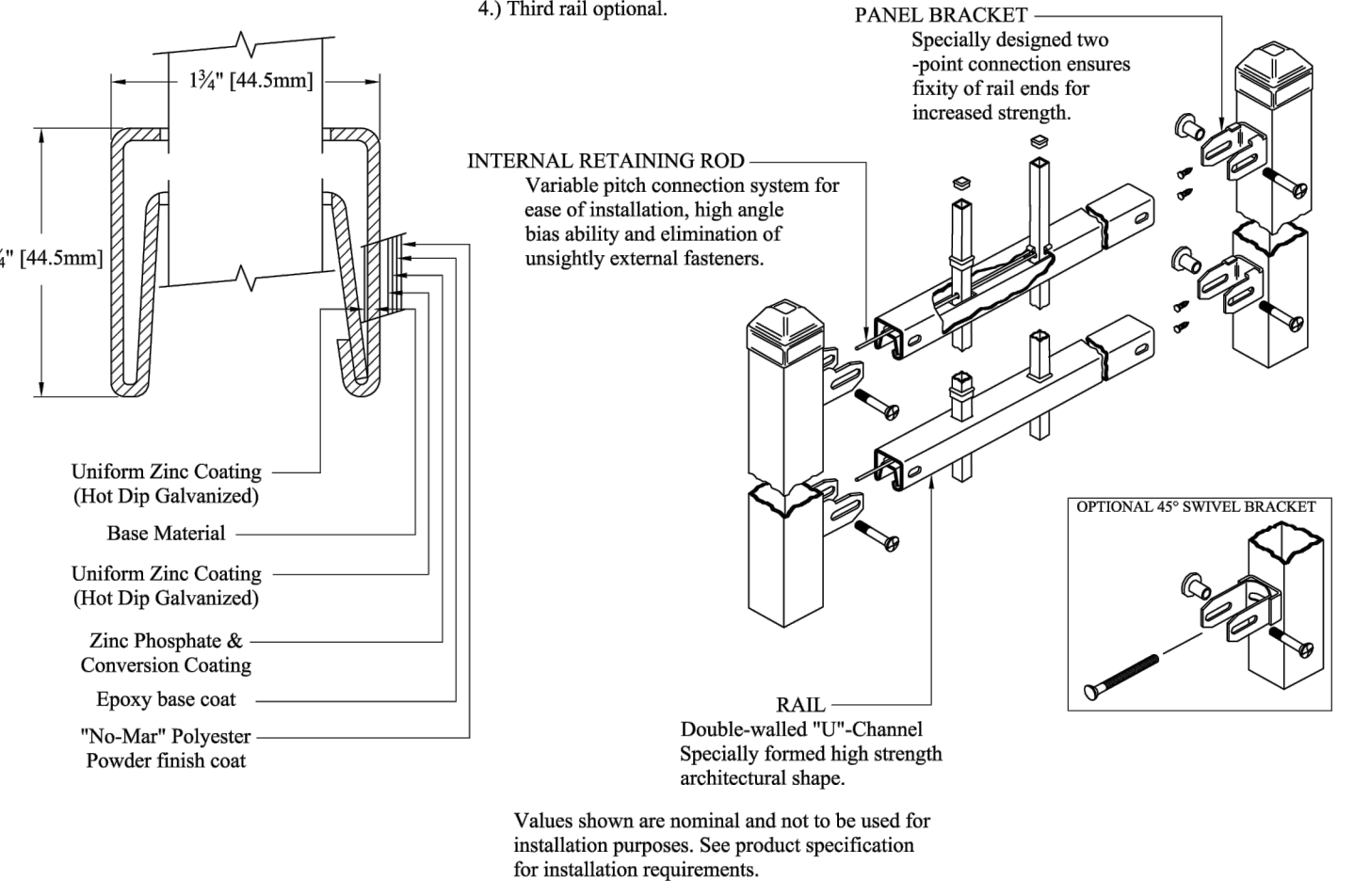
DOUBLE SWING GATE DETAIL 1/05



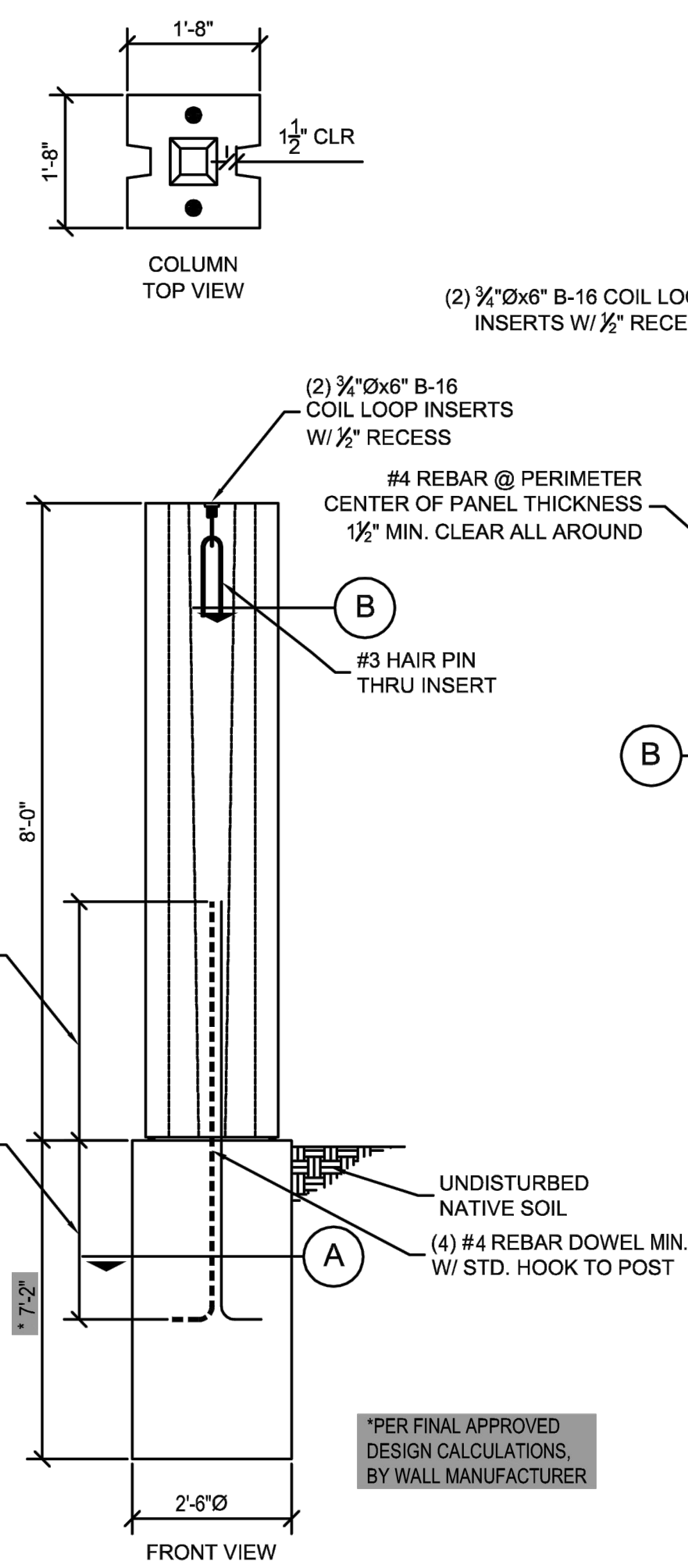
GRAVEL SECTION 2/05
SCALE: 1 1/2\"/>



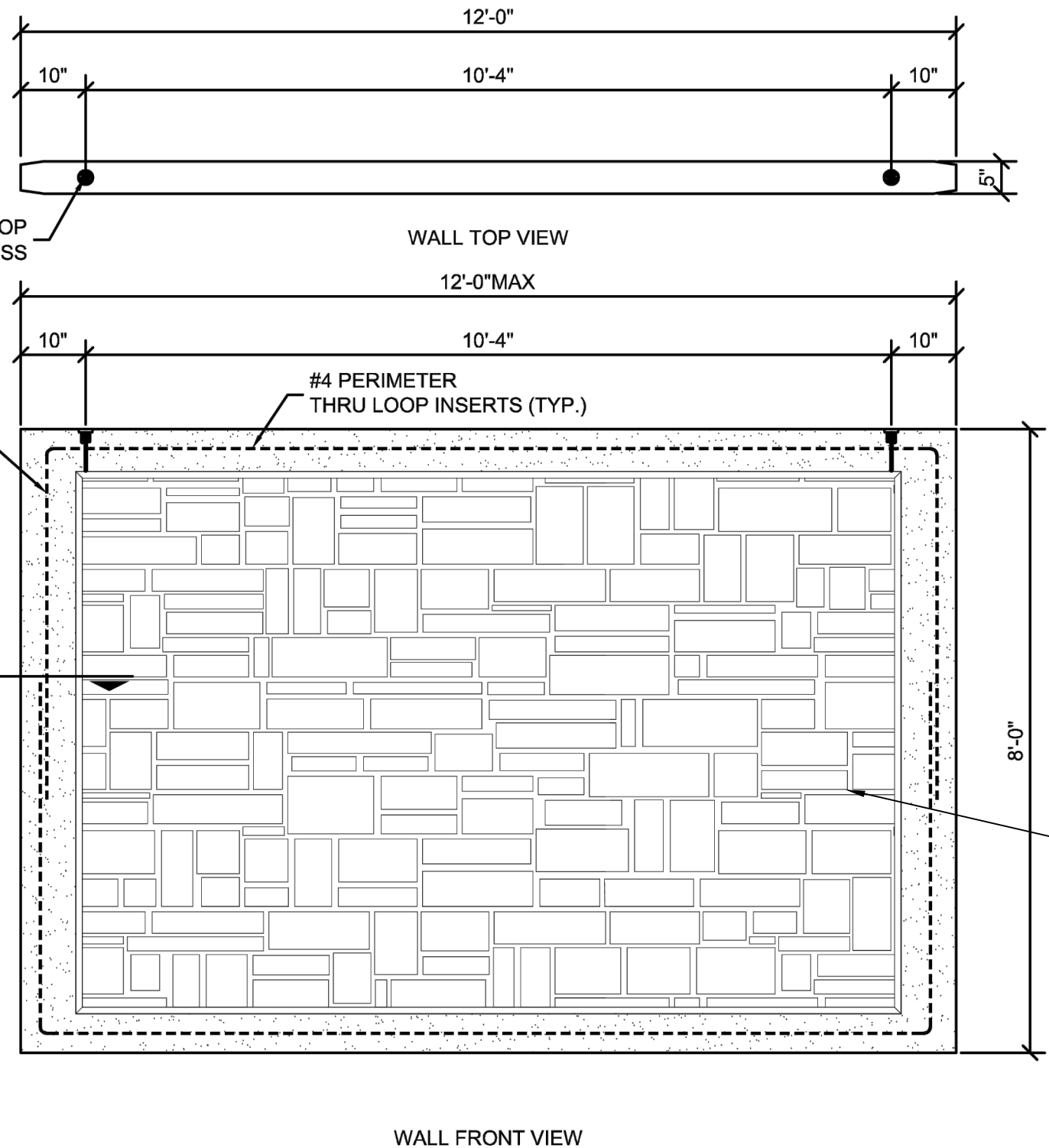
- NOTES:**
1. Post size depends on fence height and wind loads. See post sizing chart.
 2. Panels also available for 6' on center post spacing.
 3. Additional heights available on request. Post height will change with Adornment installation.
 4. Third rail optional.



WROUGHT IRON FENCE 3/05

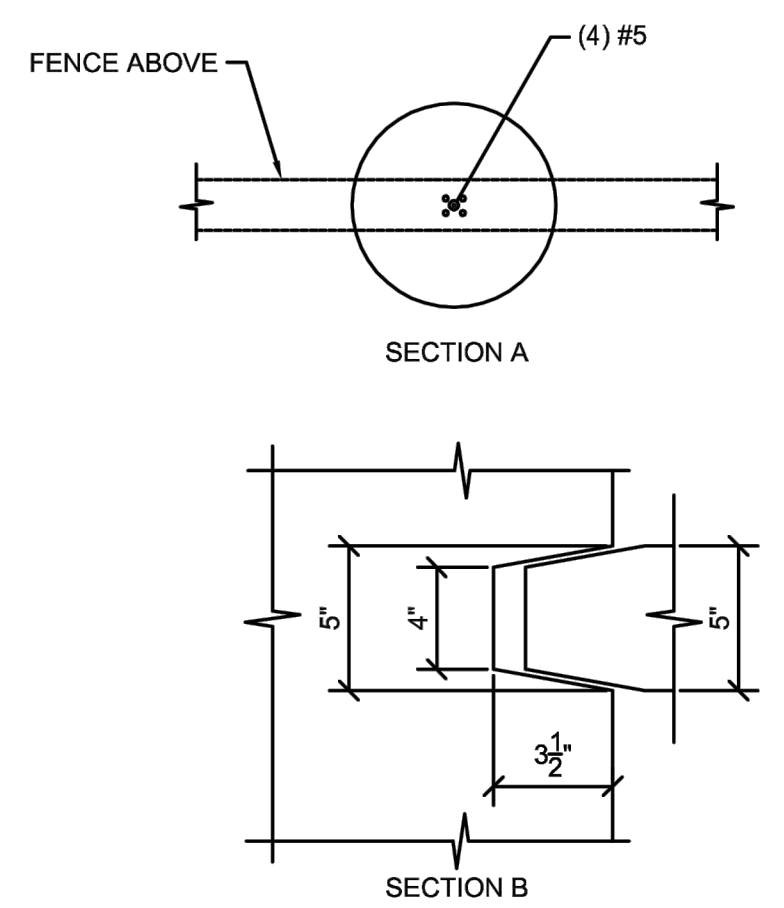


PER FINAL APPROVED DESIGN CALCULATIONS, BY WALL MANUFACTURER



- NOTES:**
1. POST AND PANEL CONCRETE TO BE 5000 PSI.
 2. FOOTING CONCRETE TO BE 3000 PSI.
 3. MINIMUM SOIL LATERAL BEARING ALLOWABLE: 150 PSF/FT. OF DEPTH BELOW GRADE
 4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE: 2000 PSF.
 5. DIMENSIONS MAY BE REDUCED TO FIT PROJECT REQUIREMENTS.
 6. GROUT BETWEEN POST AND FOOTING TO BE 2500 PSI.
 7. CONTRACTOR SHALL SUBMIT PRE-CAST WALL DESIGN CALCULATIONS AND SHOP DRAWINGS FOR REVIEW BY ENSIGN PRIOR TO INSTALLATION.
 8. FENCE AND FOUNDATIONS TO BE DESIGNED FOR 2'-0\"/>

PRE-CAST CONCRETE WALL 4/05



AFTER INSTALLATION, PROVIDE ANTI-GRAFFITI COATING TO WALL SURFACES

ISSUED FOR CONSTRUCTION

PROFESSIONAL STRUCTURAL ENGINEER
No. 175238
DAVID B. ALTER
03/13/2025
STATE OF UTAH

ENBRIDGE
THE STANDARD IN ENGINEERING

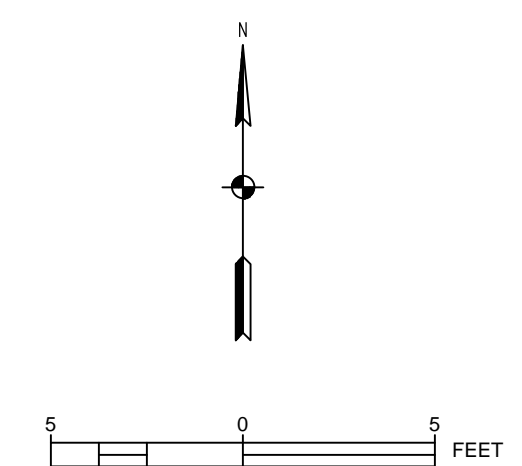
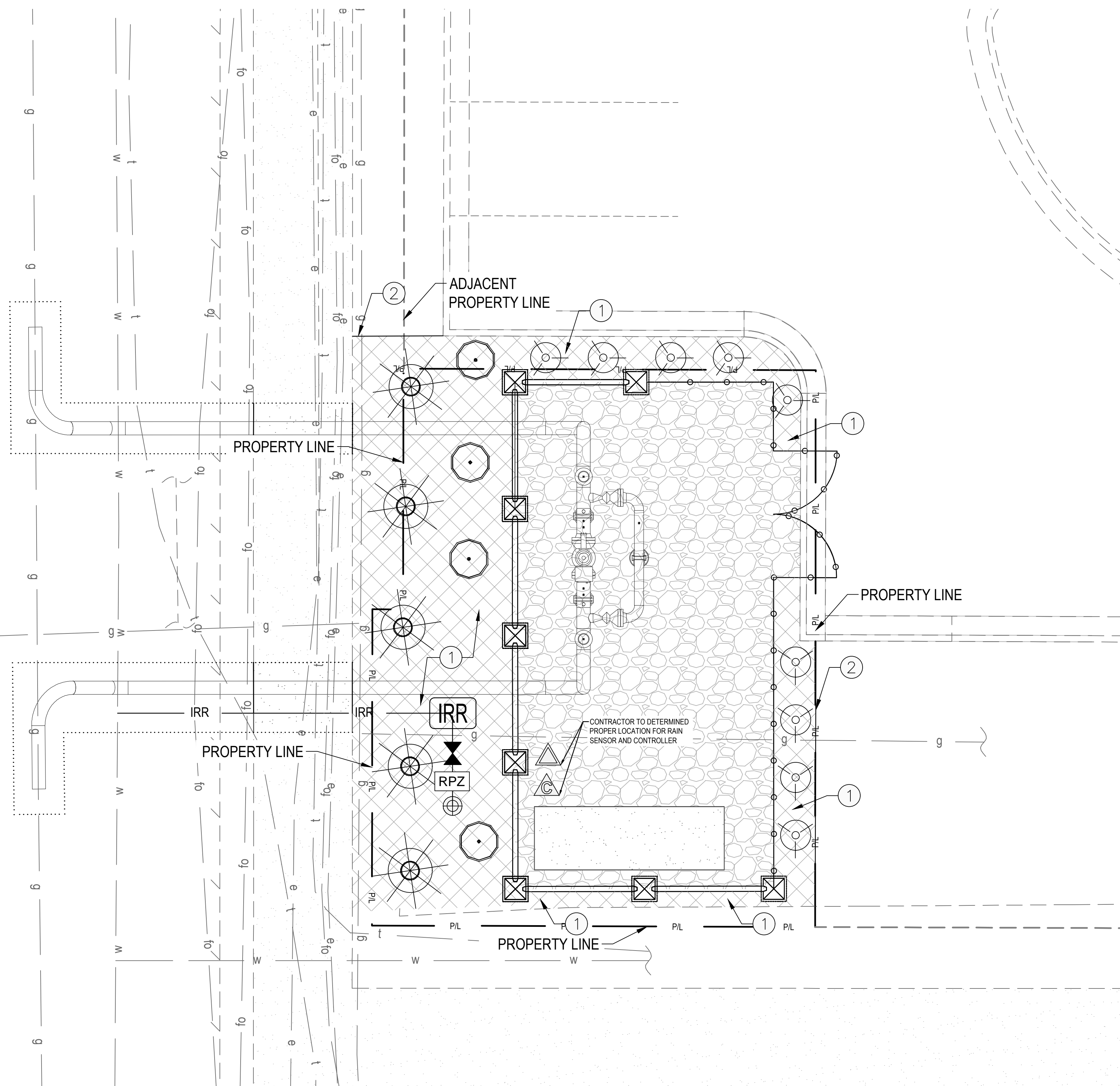
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											PROJECT ENGR: D. ALTER	TITLE:	LINE BREAK VALVE FV 11839
											SURVEYOR: E. CLEMENCE	DESCRIPTION:	DETAILS
											ENGR MNGR: S. MCGEE	ADDRESS:	9725 STATE STREET
											CONSTR MNGR: S. PALMER		
											MEAS & CTRLS:		
											AUTOM ENGR:		

SECTION: 07 T3S R 1E
ELEVATION: 4477'
LAT: 40.5751 LONG: -111.8904
SCALE: AS SHOWN

CITY SANDY COUNTY SALT LAKE STATE UTAH
DRAWING NUMBER ENB-B-FV11839-CCS-001 SHEET 06 OF 08 REVISION 0

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STATE STREET



Landscape Shrubs

Qty	Symbol	Common Name	Botanical Name	Plant Size
9	☉	Barberry, 'Crimson Pygmy'	Berberis thunbergii atropurpurea nana	5 Gallon
4	☉	Barberry, 'Crimson Pygmy'	Berberis thunbergii atropurpurea nana	5 Gallon
5	☉	Pine, Mugo	Pinus mugo 'Compacta'	5 Gallon

- ① In all planter bed areas, install 4" deep 2'-3" dia. Nephi Rock & Gravel color 'Southtown' or equiv. decorative rock over weed barrier, typ.
 - ② Install 4" metal edging.
- Total Landscape Area = 767 sq. ft.
Vegetative Coverage Area Required = 253 sq. ft. (33%)
- Vegetative Coverage Calculations
Ice Plant Coverage = 9 x 7 sq. ft. = 63 sq. ft.
Barberry Vegetative Coverage = 3 x 13 sq. ft. = 39 sq. ft.
Creeping Juniper Coverage = 4 x 28 sq. ft. = 112 sq. ft.
Total Vegetative Coverage Provided = 214 sq. ft. (28%)

Irrigation

Qty	Symbol	Description
1	☉	Rain Bird X CZ-100 COM
	—	Mainline - 1" Schedule 40 PVC
1	M	1" inch meter
1	S	Rain Bird RSD-BEx Rain Sensor
1	C	Rain Bird ESP-LX Plus Controller
1	M	Mueller 3/4" Brass Stop and Waste
1	RPZ	RPZ Backflow Prevention Device
	DRIP AREA	Rain Bird XBS Black Stripe Tubing with Rain Bird XB-10 Emitters*

*Install 2 emitters per shrub, 4 emitters per tree

** NOTES **
THIS IRRIGATION SYSTEM WAS DESIGNED AT AND 60 (WORKING) PSI AT THE POINT OF CONNECTION. IF THESE MINIMUM REQUIREMENTS CAN NOT BE MET, PLEASE CONTACT THE DESIGNER. THIS PLAN WAS DRAWN FOR GRAPHIC CLARITY ONLY. PLEASE PLACE ALL MAINLINE AND LATERAL LINES IN ADJACENT LANDSCAPE AREAS. SOME FIELD MODIFICATIONS MAY BE NEEDED TO AVOID ON SITE OBSTRUCTIONS.

COORDINATE IRRIGATION CONTROLLER WITH OWNERS'S FACILITY OPERATION DEPARTMENT.

ISSUED FOR CONSTRUCTION



REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD					
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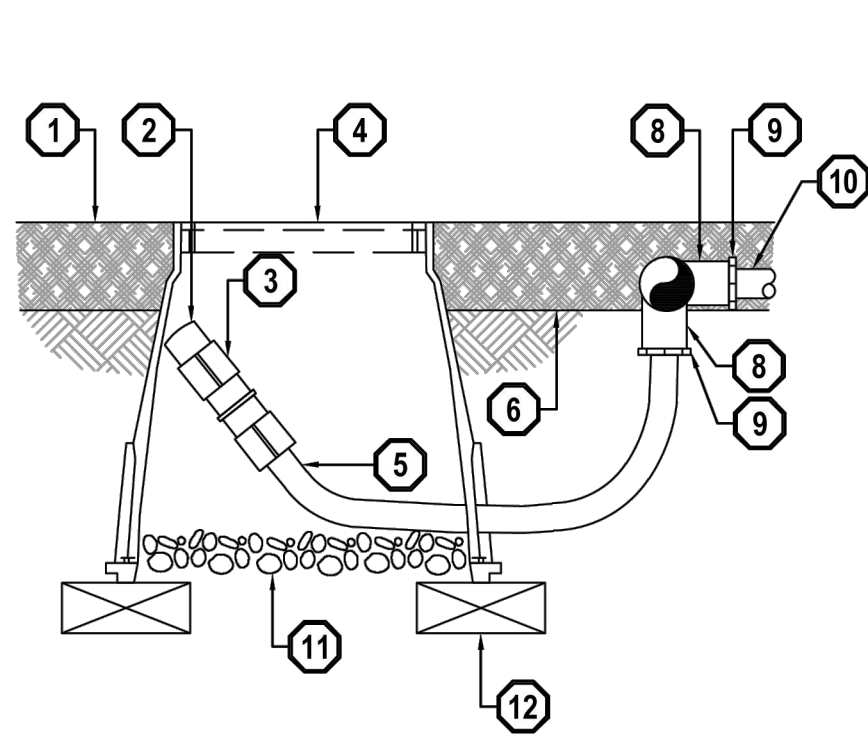
LINE NUMBER: FL007
FACILITY: 12" BLOCK VALVE ASSEMBLY
TITLE: LINE BREAK VALVE FV 11839
DESCRIPTION: LANDSCAPE PLAN
ADDRESS: 9725 STATE STREET

CITY SANDY COUNTY SALT LAKE STATE UTAH

DRAWING NUMBER ENB-B-FV11839-CCS-001 SHEET 07 OF 08 REVISION 0

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ENBRIDGE GAS-ANS1.D

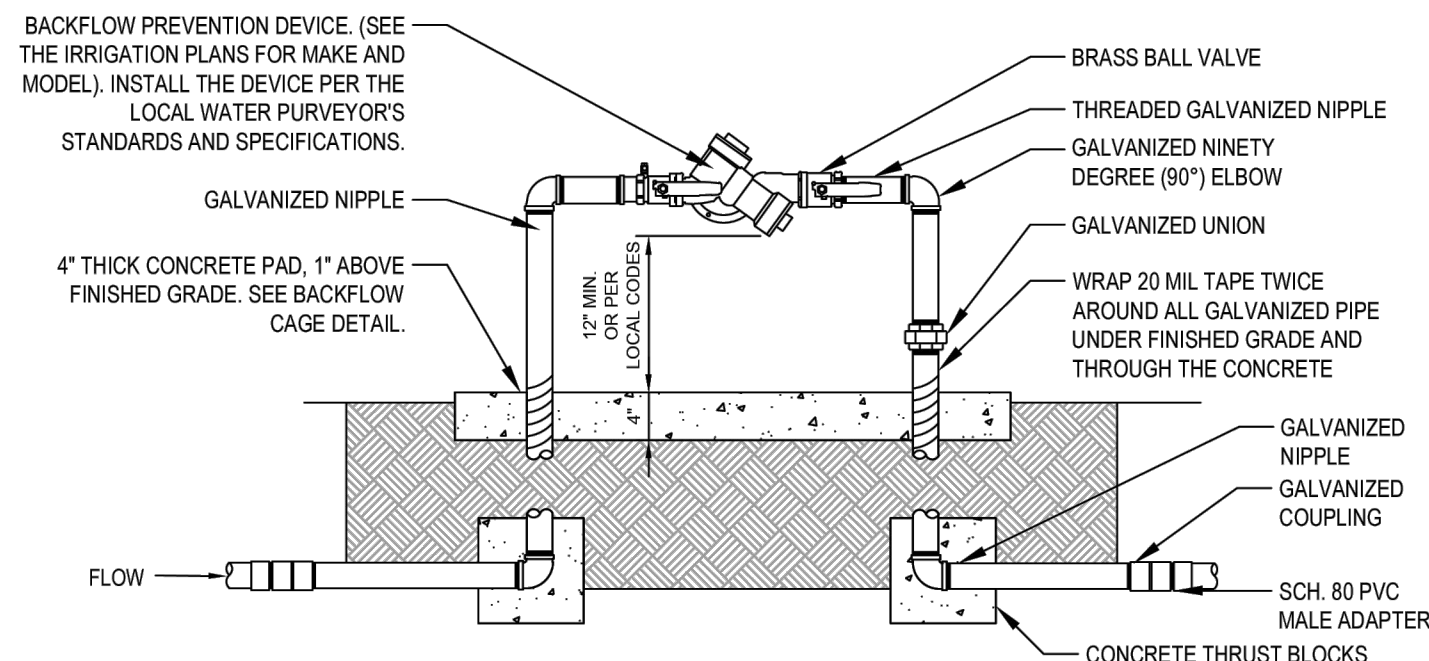


NOTE: ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

10 ON-SURFACE DRIPLINE FLUSH POINT DETAIL

SCALE: NONE

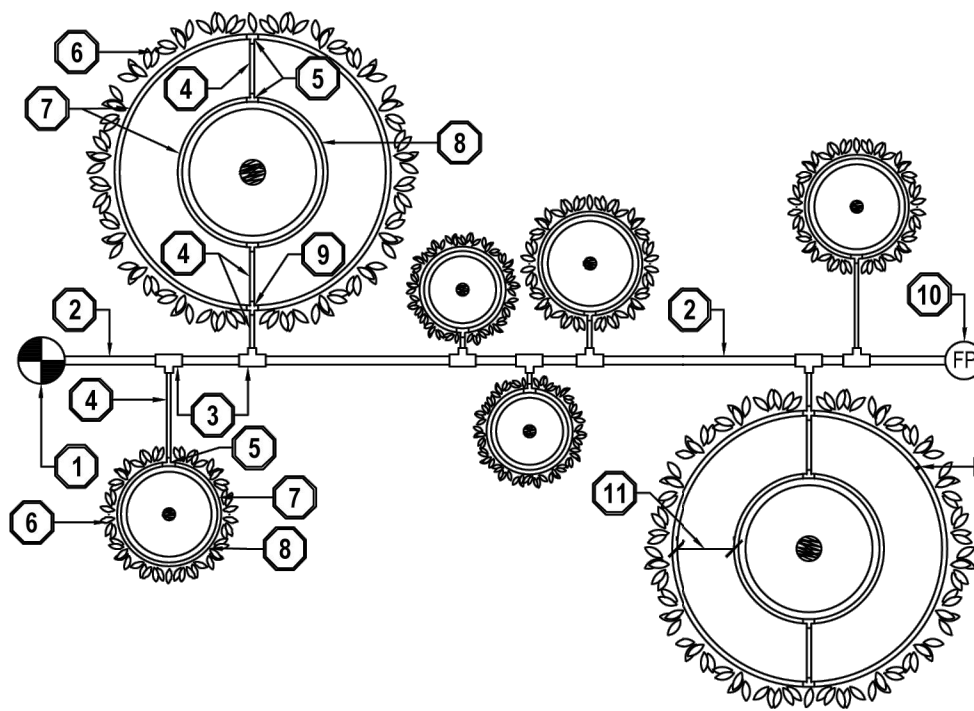
- 1 MULCH
- 2 FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE: RAIN BIRD MDCFCAP
- 3 EASY FIT COUPLING: RAIN BIRD MDCFCOUP
- 4 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 5 1/2" POLYETHYLENE TUBING: RAIN BIRD XF BLANK TUBING
- 6 FINISH GRADE
- 7 PVC EXHAUST HEADER
- 8 PVC SCH 40 TEE OR EL
- 9 BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- 10 ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV DRIPLINE
- 11 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- 12 BRICK (1 OF 2)



NOTE:
 1- ALL ASSEMBLY PARTS (THREADED NIPPLES, FITTINGS, ETC.) SHALL BE GALVANIZED OR BRASS PER LOCAL CODES AND REQUIREMENTS.
 2- GALVANIZED NIPPLE SHALL EXTEND 12" PAST THE EDGE OF THE CONCRETE FOOTING.
 3- SCH. 80 PVC MALE ADAPTER SHALL BE USED IN CONNECTION FROM GALVANIZED TO THE MAINLINE.
 4- BACKFLOW PREVENTION DEVICE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE LANDSCAPE METER.
 5- BACKFLOW PREVENTION DEVICE SHALL BE LOCATED IN PLANTING AREA UNLESS APPROVED BY OWNER'S REPRESENTATIVE.
 6- SEE DETAIL FOR BACKFLOW CAGE INSTALLATION.
 7- ALL BACKFLOW PREVENTION DEVICES SHALL HAVE FREEZE BLANKET INCLUDED UPON INSTALLATION.
 8- ALL GALVANIZED CONNECTIONS SHALL TO BE MADE USING PIPE THREAD SEALANT. ALL SCH. 80 PVC TO GALVANIZED CONNECTIONS TO BE MADE USING TEFLON TAPE.

7 BACKFLOW PREVENTER

SCALE: NONE

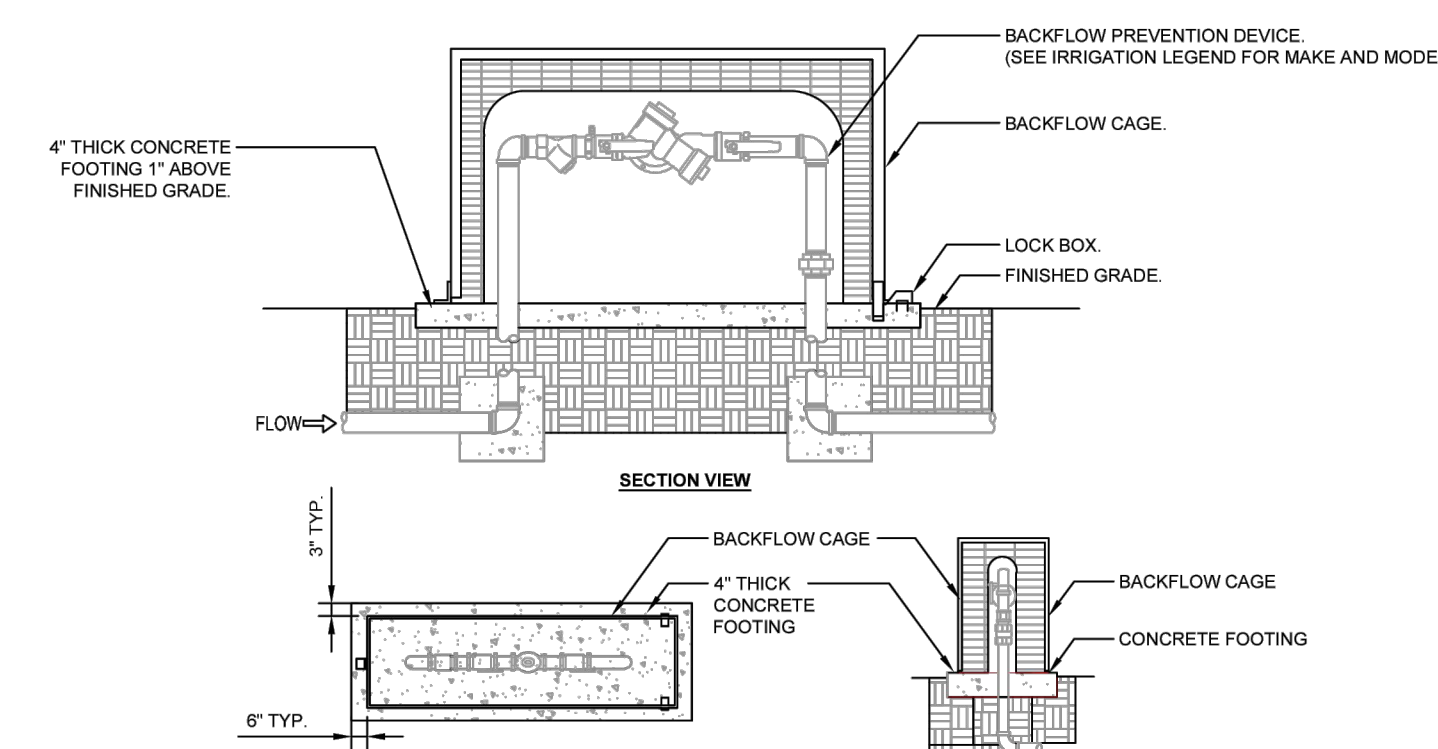


NOTES:
 1. INSTALL MULTIPLE RINGS AS REQUIRED TO PROVIDE IRRIGATION COVERAGE FROM ROOT BALL TO PROJECTED TREE CANOPY. REFER TO RAIN BIRD DESIGN GUIDELINES AND SPECIFICATIONS FOR RECOMMENDED SPACING BETWEEN RINGS.
 2. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
 3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

4 ON-SURFACE DRIPLINE TREE/SHRUB DETAIL

SCALE: NONE

- 1 RAIN BIRD CONTROL ZONE KIT (SIZED TO ACCOMMODATE LATERAL FLOW DEMAND)
- 2 PVC DRIP MANIFOLD PIPE
- 3 PVC SCH 40 TEE OR EL (TYPICAL)
- 4 1/2" POLYETHYLENE TUBING: RAIN BIRD XF SERIES BLANK TUBING (TYPICAL)
- 5 BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
- 6 PROJECTED CANOPY LINE OF TREE OR SHRUB (TYPICAL)
- 7 ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV SERIES PLACE AS SHOWN (LENGTH AS REQUIRED, TYPICAL)
- 8 ROOT BALL (TYPICAL)
- 9 BARB X BARB INSERT CROSS: RAIN BIRD XFD-CROSS (TYPICAL)
- 10 DRIPLINE FLUSH POINT (SEE RAIN BIRD DETAIL: XFCV DRIPLINE FLUSH POINT WITH BALL VALVE)
- 11 SPACING PER SPECIFICATION
- 12 TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3)

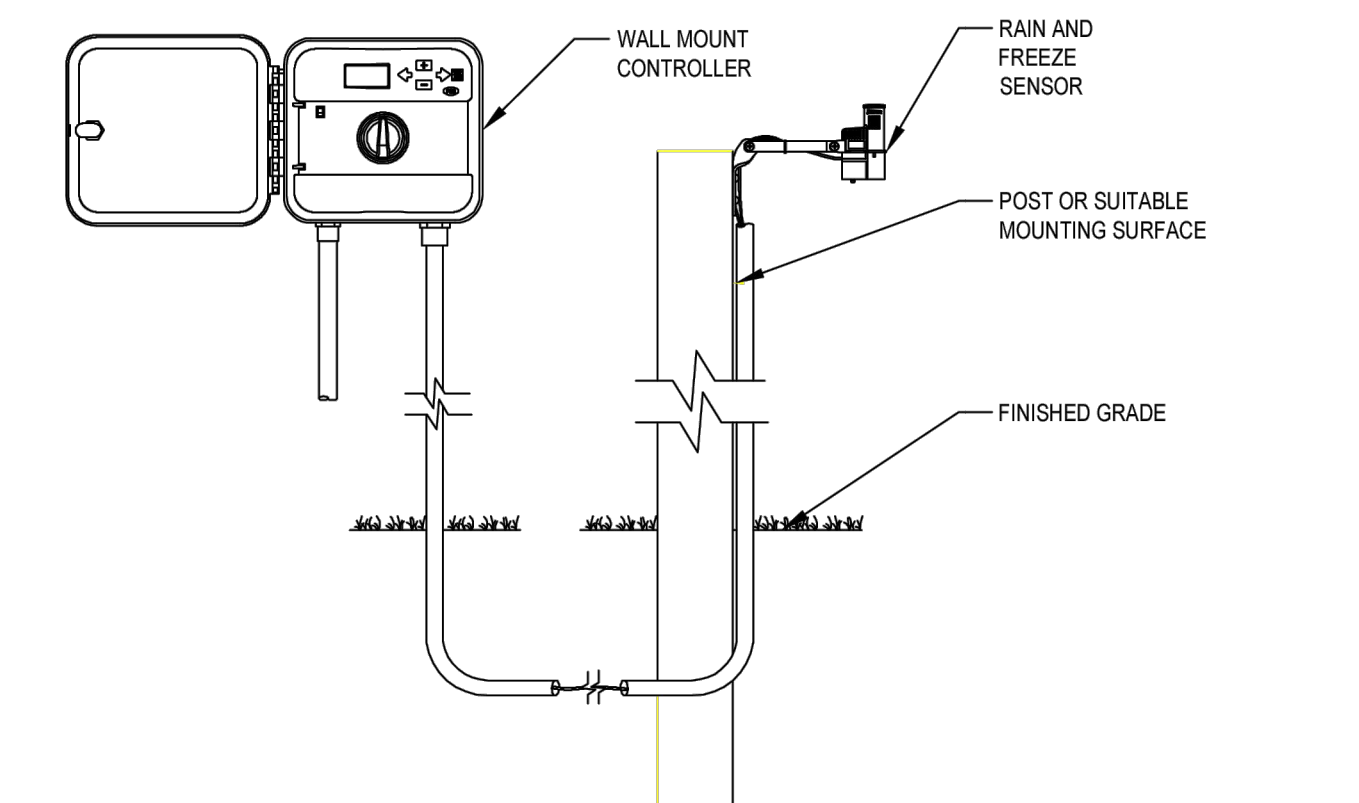


NOTES:
 1- INSTALL BACKFLOW CAGE PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 2- SEE BACKFLOW PREVENTION DEVICE DETAIL FOR REFERENCE.
 3- LOCK BOX SHALL BE LOCATED ABOVE CONCRETE FOOTING.
 3- CONTRACTOR SHALL PROVIDE A LOCK AS APPROVED BY THE OWNER'S REPRESENTATIVE.

1 BACKFLOW CAGE

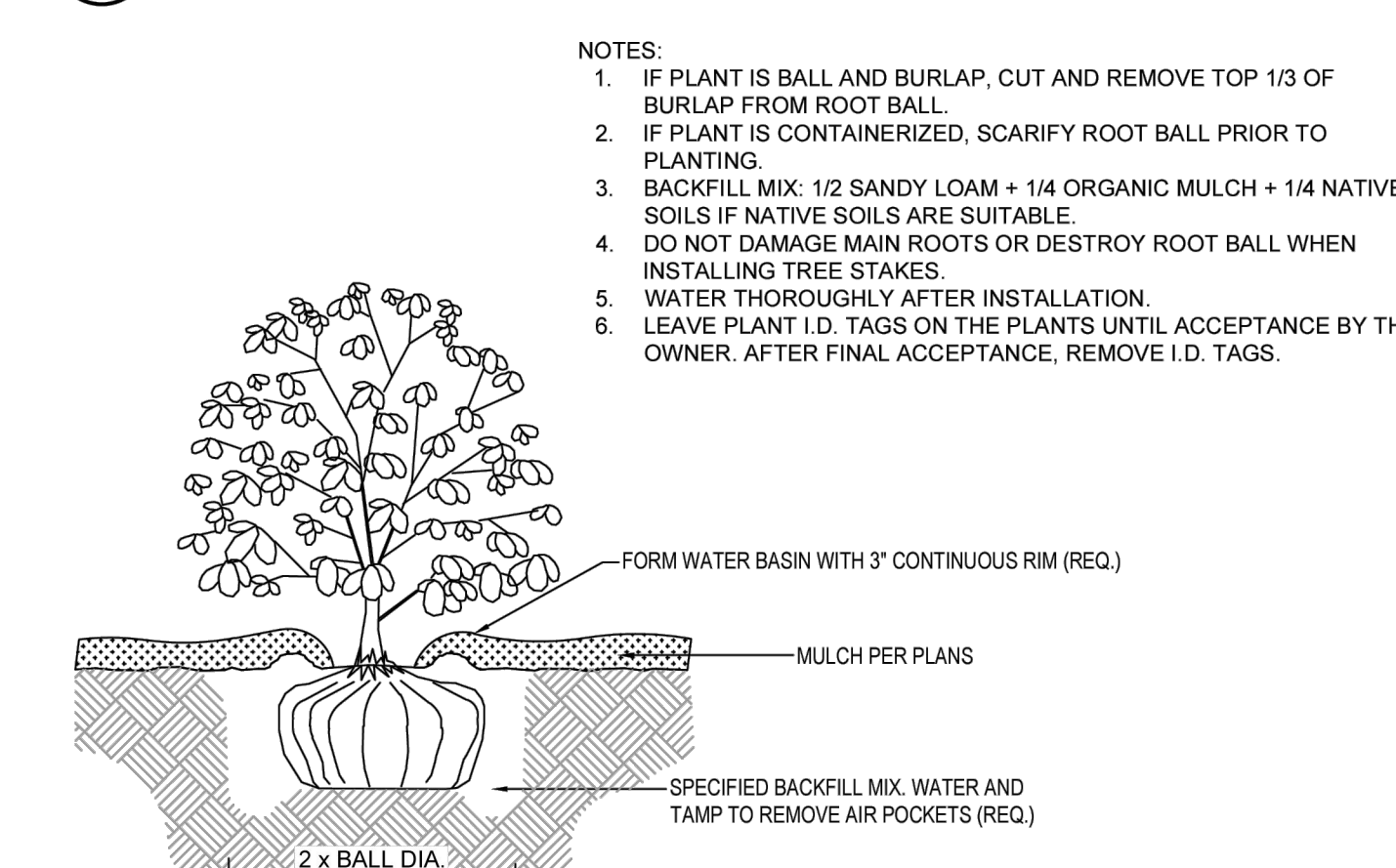
SCALE: NONE

- 1 FINISH GRADE/TOP OF MULCH
- 2 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 3 30-INCH LINEAR LENGTH OF WIRE, COILED
- 4 WATERPROOF CONNECTION: RAIN BIRD DB SERIES
- 5 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
- 6 ID TAG
- 7 REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUDED IN XCZ-PRB-100-COM KIT)
- 8 PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
- 9 PVC SCH 40 FEMALE ADAPTOR
- 10 LATERAL PIPE
- 11 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 12 PVC SCH 40 ELL
- 13 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- 14 PVC SCH 40 TEE OR ELL
- 15 MAINLINE PIPE
- 16 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 17 PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)



11 RAIN AND FREEZE SENSOR WITH CONTROLLER

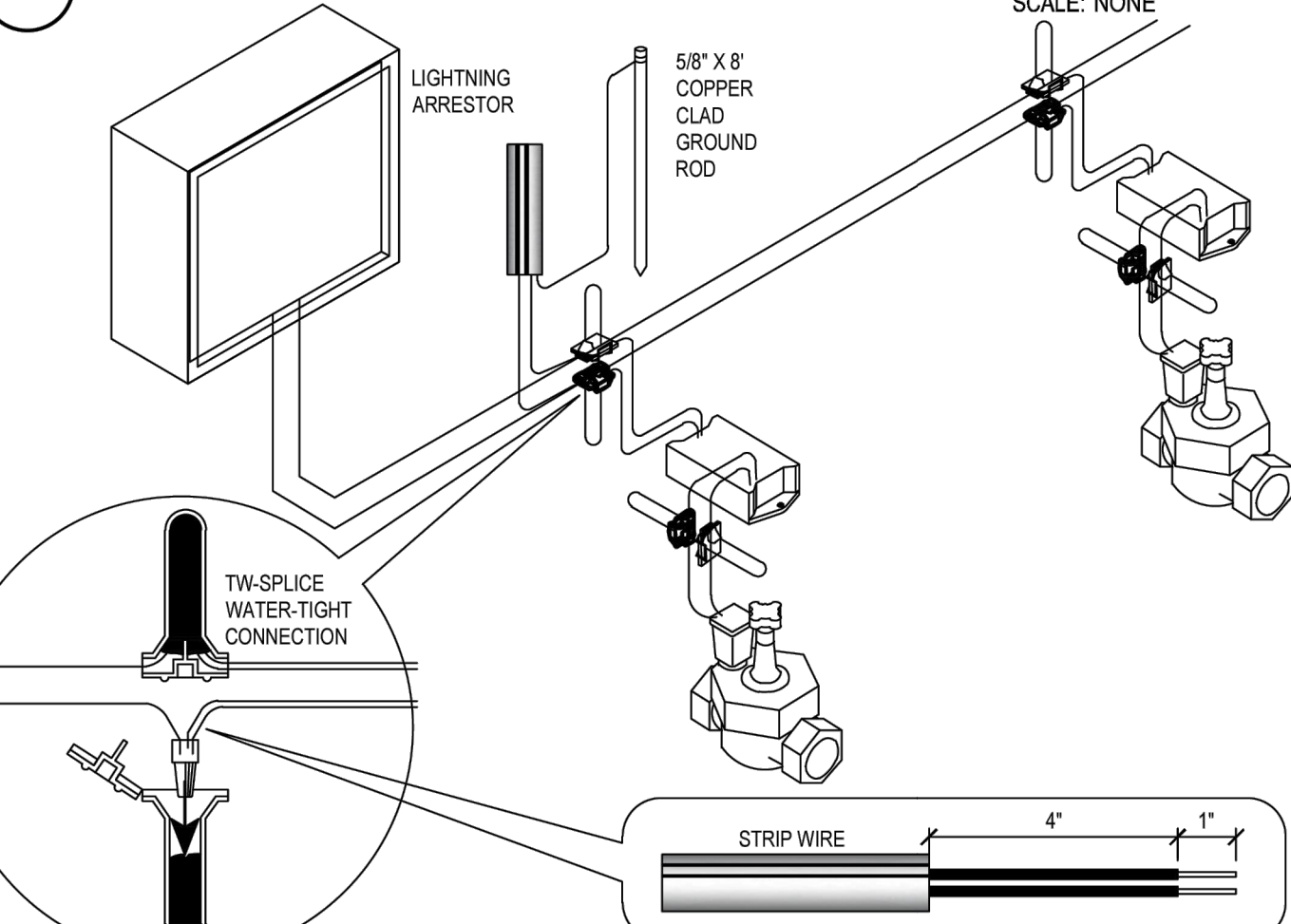
SCALE: NONE



8 SHRUB PLANTING

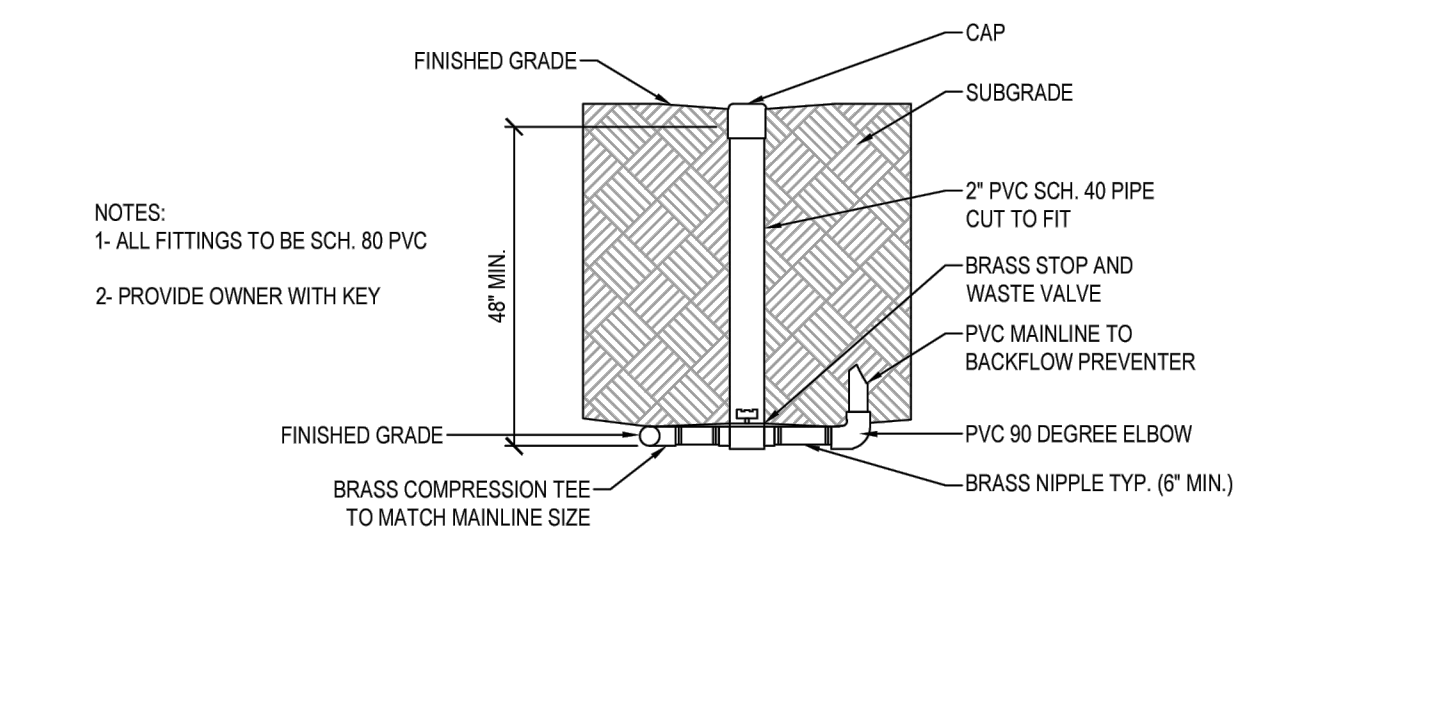
SCALE: NONE

NOTES:
 1. IF PLANT IS BALL AND BURLAP, CUT AND REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL.
 2. IF PLANT IS CONTAINERIZED, SCARIFY ROOT BALL PRIOR TO PLANTING.
 3. BACKFILL MIX: 1/2 SANDY LOAM + 1/4 ORGANIC MULCH + 1/4 NATIVE SOILS IF NATIVE SOILS ARE SUITABLE.
 4. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKES.
 5. WATER THOROUGHLY AFTER INSTALLATION.
 6. LEAVE PLANT I.D. TAGS ON THE PLANTS UNTIL ACCEPTANCE BY THE OWNER. AFTER FINAL ACCEPTANCE, REMOVE I.D. TAGS.



12 TWO-WIRE CONNECTION DETAIL

SCALE: NONE



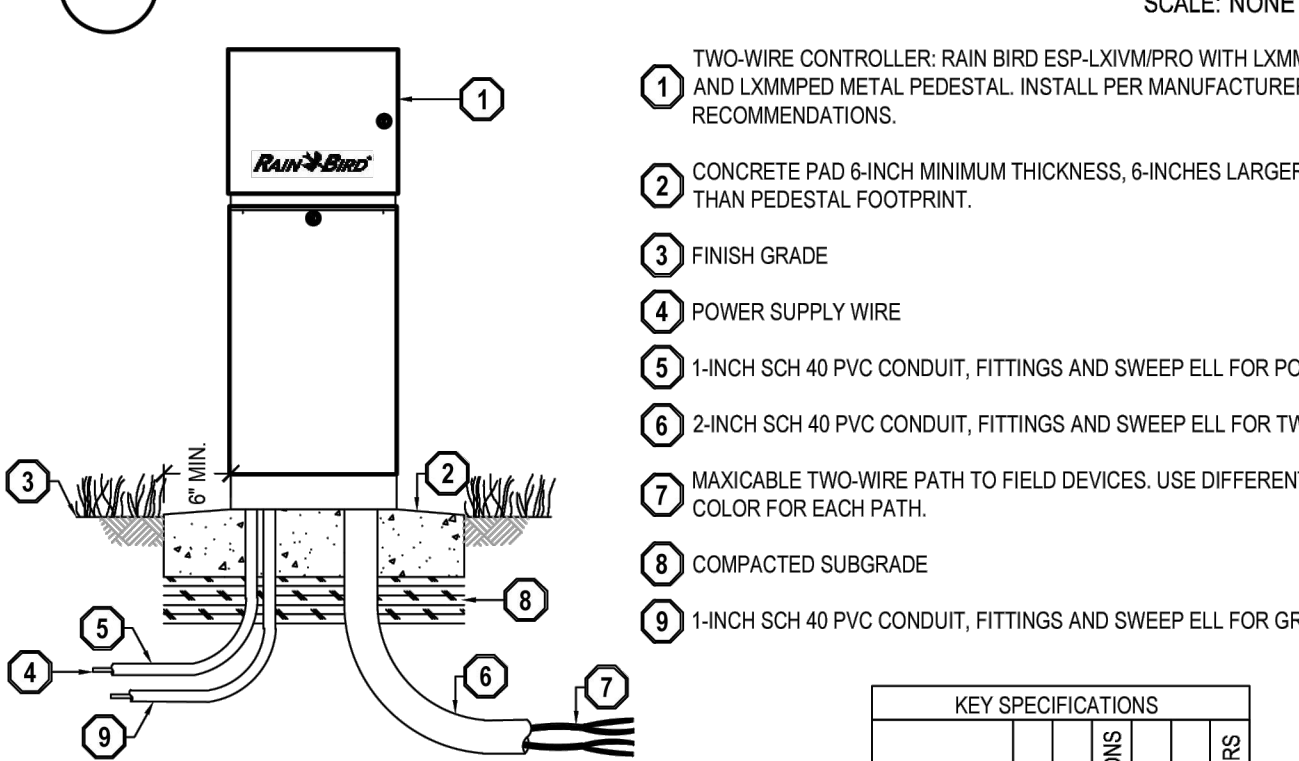
9 STOP AND WASTE VALVE ASSEMBLY

SCALE: NONE

NOTES:
 1- ALL FITTINGS TO BE SCH. 80 PVC
 2- PROVIDE OWNER WITH KEY

5 IRRIGATION TRENCHING

SCALE: NONE

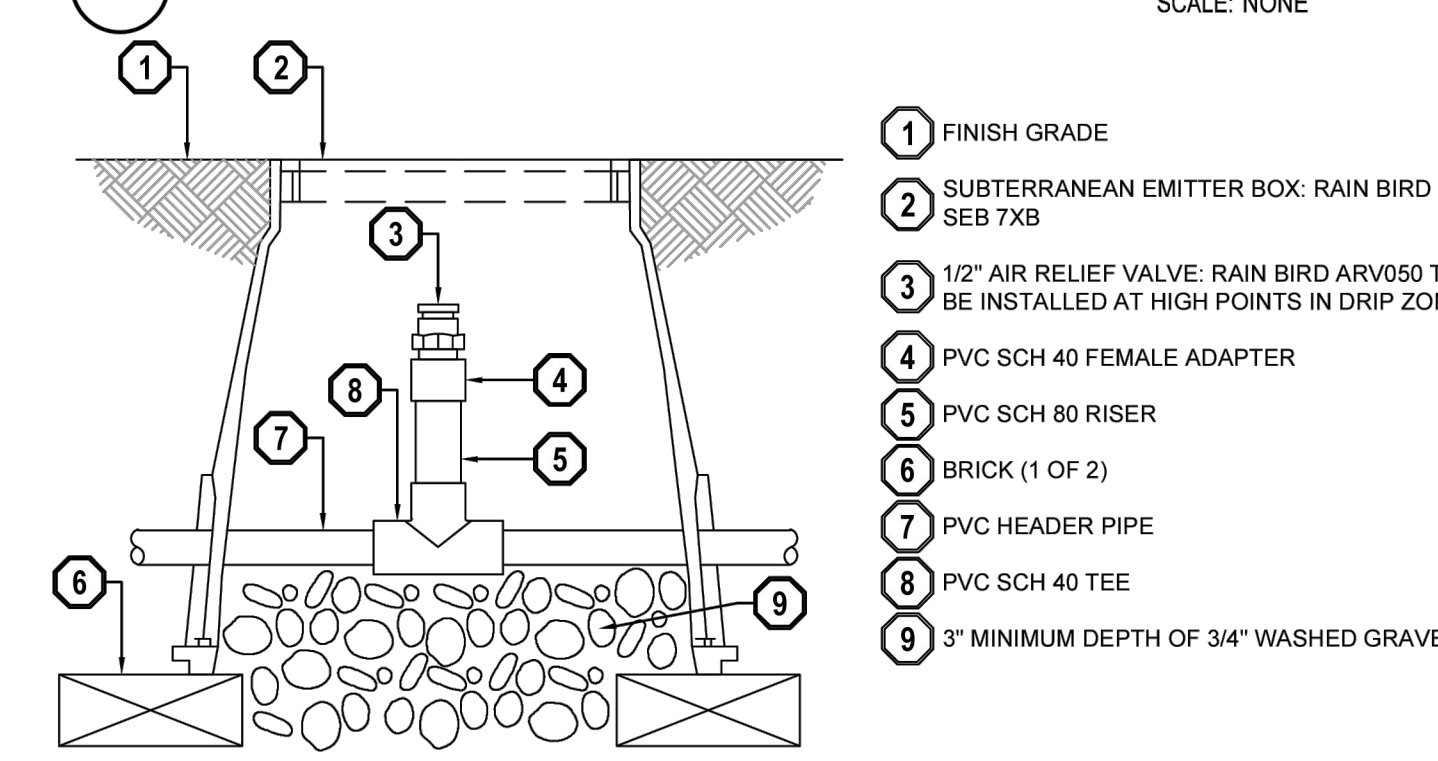


NOTES:
 1. ESP-LXVM CONTROLLER IS AVAILABLE IN TWO MODELS, THE LXVM WITH 60 STATIONS AND THE LXVM-PRO WITH 240 STATIONS. REFER TO THE CHART ON THE RIGHT FOR DIFFERENCES BETWEEN THE TWO MODELS.
 2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

FEATURE	LX-VM	LX-VM PRO
MAX PROGRAMS	10	80
MAX STATIONS	60	240
MAX SIMULATIONS	8	16
MASTER VALVES	5	10
FLOW SENSORS	5	10
WEATHER SENSORS	4	8

2 DRIP CONTROL ZONE KIT

SCALE: NONE



3 AIR RELIEF VALVE DETAIL

ISSUED FOR CONSTRUCTION



REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD			LINE NUMBER:		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	CITY	COUNTY	STATE	
			98428.23	INSTALL NEW BLOCK VALVE FV11839	0	ISSUED FOR CONSTRUCTION	03/13/2025	JOL	ERB	ENSGN	SANDY	SALT LAKE	UTAH	
										FL007				
										12" BLOCK VALVE ASSEMBLY				
										LINE BREAK VALVE FV 11839				
										LANDSCAPE DETAILS				
										9725 STATE STREET				
										SECTION: 07 T3S R 1E				
										ELEVATION: 4477'				
										LAT: 40.5751 LONG: -111.8904				
										DRAWING NUMBER: ENB-B-FV11839-CCS-001				
										SHEET 08 OF 08				
										REVISION 0				

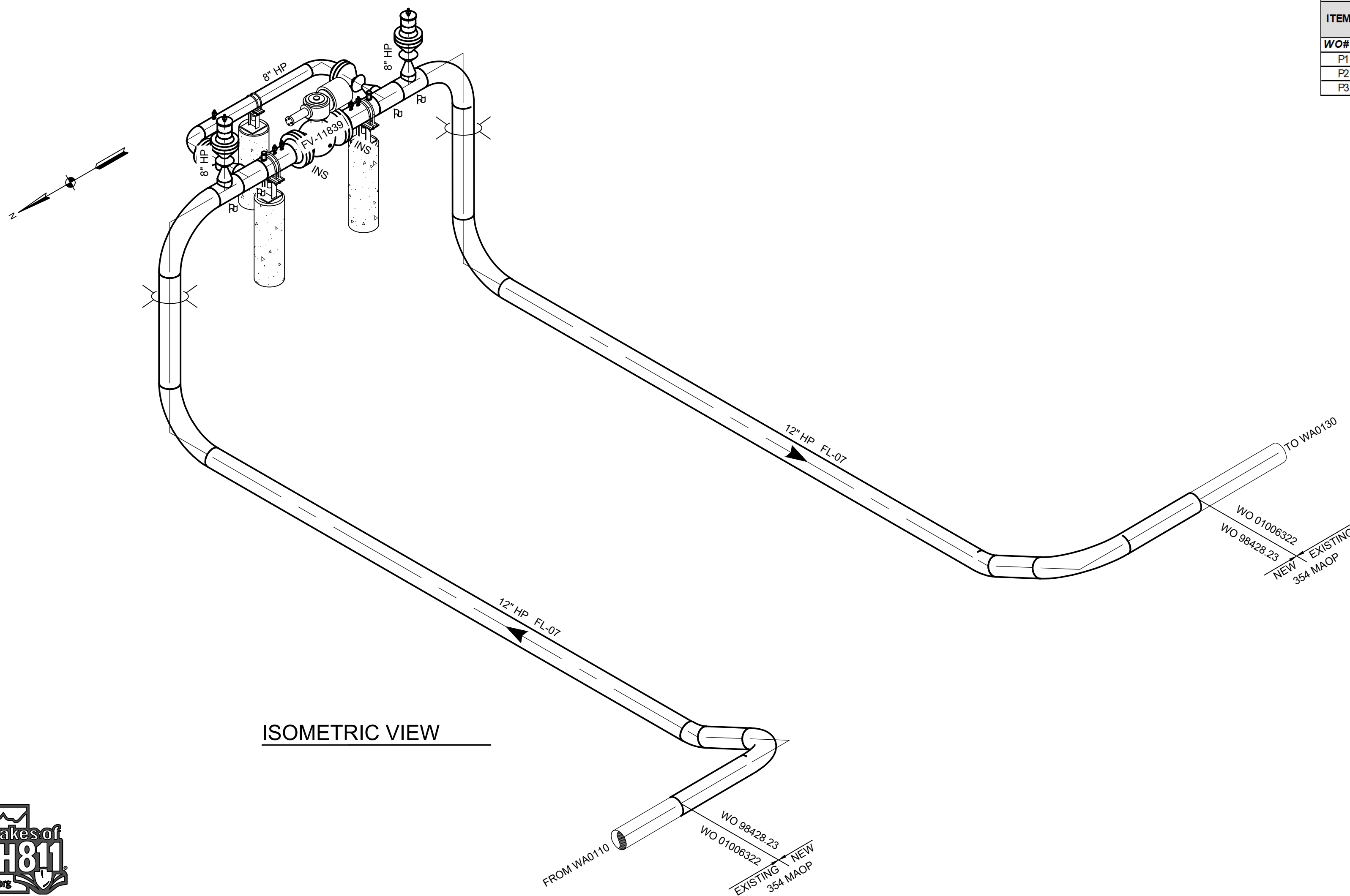
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ENBRIDGE GAS-ANSI-D



VICINITY MAP

PROJECT CONTACTS		
PROJECT MANAGER:	CHAD LAIHO	(906) 251-0259
PROJECT ENGINEER:	CHAD LAIHO	(906) 251-0259
CATHODIC PROTECTION:	KELLY FACER	(385) 530-7616
MEASUREMENT & CONTROLS:	JACE ANDERSON	(801) 243-8302
HP SURVEYOR:	ENOCH CLEMENCE	(801) 793-7950
LEAD INSPECTOR:	TBD	
IHP SUPERVISOR:	N/A	
RIGHT OF WAY AGENT:		
ACCOUNT MANAGEMENT / BUSINESS DEVELOPMENT:	N/A	
ENVIRONMENTAL COMPLIANCE:	BRIAN NOSICH	(307) 371-9321
SAFETY:	CARRIE CHRISTOFFERSON	(801) 324-3712



ISOMETRIC VIEW

NOTES

(ALL NOTES MAY OR MAY NOT PERTAIN TO THIS DRAWING)

- BOLD LINES AND/OR CLOUDS REPRESENT NEW PIPING.
- Ⓡ IDENTIFIES GUIDE BARRED TEES.
- ANY MATERIAL SUBSTITUTION OR FIELD DESIGN CHANGES REQUIRE ENGINEERING APPROVAL.
- SEE SPECIFICATION 9-00-01 FOR MATERIAL NOTE NUMBERS LISTED.
- LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- CORROSION CONTROL: BURIED FABRICATION PIPING SHALL BE CLEANED AND COATED PER SP 2-13-10. THE RECOMMENDED FIELD APPLIED COATING FOR BURIED FBE PIPING IS 2-PART EPOXY AND FOR BURIED ARO PIPING POWERCRETE J APPLIED COATING. COATING TRANSITIONS ARE TO BE APPLIED PER ENB-TYP-GEN-PIP-001. SOIL TO AIR INTERFACES (TRANSITIONS FROM BELOW TO ABOVE GROUND) REQUIRE AN OVERCOAT OF TRENTON WAX TAPE NUMBER 2 APPLIED PER SP 2-13-11. ALL BURIED PIPING TO BE CATHODICALLY PROTECTED WITHIN ONE YEAR OF INSTALLATION. ABOVE GROUND PIPING IS TO BE COATED PER SP 2-13-11. CONSULT CORROSION ENGINEERING FOR PIPELINE COATING EQUIVALENTS.
- FIELD VERIFY WALL THICKNESS AT ALL TIE-IN LOCATIONS.
- ALL VALVES MUST HAVE APPROPRIATE LOCKING DEVICES.
- BALL VALVES - REMOVE ALL MANUFACTURER VENT PLUGS AND REPLACE WITH SMALL BALL VALVES.
- ALL CHECK VALVES TO BE VENTED.
- INSULATE GAUGE AND CONTROL LINES, RELIEF STACK, SUPPORT BRACKETS, ETC.
- ENSURE INSULATION POINTS ARE NOT SHORTED /BYPASSED THROUGH FUEL GAS PIPING, ELECTRICAL CONDUIT, ETC. THAT ARE ATTACHED TO THE PIPE SUPPORTS.
- ALL PIPE SHALL HAVE MILL TEST REPORTS (MTR'S) AS DEFINED WITHIN STANDARD PRACTICE 3-95-01.
- THE FORMULA USED TO CALCULATE THE MAWP FOR ALL STEEL PIPE AND NON-RATED FITTINGS IS $P=(2St/D) \times F \times E \times T$, WHERE $F=0.5$ FOR A CLASS 3 LOCATION, $E=1$, AND $T=1$.
- 2" IN SERVICE FILLET WELDS SHALL RECEIVE 100% NDE.
- PIPE IS DESIGNED TO WITHSTAND ANTICIPATED EXTERNAL PRESSURES AND LOADS FOLLOWING SP 1-01-02.



CALL THREE BUSINESS DAYS BEFORE YOU DIG TO HAVE UTILITIES LOCATED 811 OR 1-800-862-4111

MATERIAL LIST

NOTE 3

ITEM #	QTY	SIZE	DESCRIPTION	MAWP NOTE 14	MATL NOTES NOTE 4	WH #
WO# : 98428.23						
1	40	12"	BOLT, STUD, 1-1/4 x 9 1/4" LG, ASTM A193 GR-B7, W2 HEX NUTS, 1-1/4, ASTM A194 GR-2H	N/A	7	Q3481040
2	2	12"	ELL, CS, 45 DEG 3R, BW, 12.750 OD 0.375 WT, Y-65 SEGMENTABLE, ASTM A694, MSS SP75	1911	3	42337597
3	6	12"	ELL, CS, 90 DEG 3R, BW, 12.750 OD 0.375 WT, Y65, SEGMENTABLE, ASTM A694, MSS SP75	1911	3	SO
4	2	12"	FLANGE, RFWN, CL600, 12 NPS, 0.375 WT, F-65, ASTM A694, MSS SP44	1480	6	42217743
5	2	12"	GASKET, INSULATING, CL600, RF, 12 NPS, GEORG FISCHER, TYPE F, PHENOLIC GASKET, MINLON SLEEVE, 1 PHENOLIC WASHER PER BOLT (675 FT LBS)	1480	10	Q4442061
6	4	12"x8"	TEE, CS, RDCD, BW, BARRED, 12.750 OD 0.375 WT x 8.625 OD 0.322 WT, Y65, ASTM A694, MSS SP75	1911	3	42505253
7	1	12"	VALVE, CS, BALL, CL600, 12 NPS, FULL PORT, RF x RF, CAMERON, FIG 800601-2-1, API 6D	1480	1	Q2705121
8	48	8"	BOLT, STUD, 1-1/8 x 7 1/2" LG, ASTM A193 GR-B7, W2 HEX NUTS, 1-1/8, ASTM A194 GR-2H	N/A	7	Q3400336
9	2	8"	CAP, CS, BLANKING, BW, CL600, 8 NPS, 0.322 WT, HUBER-YALE W/FACTORY BLEED FLUG & 1/2" TAP	1480	16	Q1188006
10	2	8"	ELL, CS, 90 DEG LR, BW, 8.625 OD 0.322 WT, Y-52, ASTM A694, MSS SP75	1941	3	Q1758005
11	4	8"	FLANGE, RFWN, CL600, 8 NPS, 0.322 WT, F-52, ASTM A694, MSS SP44	1480	6	Q1808025
12	4	8"	GASKET, 8" ND, 600 LB, GARLOCK 9900 (614 FT LBS)	1333	9	Q1908006
13	4	8"	VALVE, CS, PLUG, CL600, 8 NPS, BW x RF, NORDSTROM, FIG 2249 1/4	1480	1	Q2748229
14	2	2"	PIG SIG, 3000# ENDURO, PIG POPPER, FIG 200-19-10826, 4" NIPPLE, FOR RUN SIZE 6-24	3000	4	C5329000
15	1	1"	NIPPLE, CS, NPT x NPT, 1 NPS x 2 LG, 0.358 WT, GR-B A106 SMLS	7692	19	Q2001010
16	1	1"	PARKER BLEED PLUG, CS, 10000#, MNPT, 1", BV10N8-80	10000	17	Q2701010
17	1	1"	VALVE, CS, BALL, 2200 CWP, 1 NPS, FNPT x FNPT, SWAGelok, S-65TF16, W/ LOCKING DEVICE	2200	N/A	Q2701022
18	7	1/2"	NIPPLE, CS, NPT x NPT, 1/2 NPS x 2 LG, XXH, 0.294 WT, GR-B A106 SMLS	9875	19	Q2000553
19	7	1/2"	PARKER BLEED PLUG, CS, 10000#, MNPT, 1/2", BV10N4-80	10000	17	Q2700510
20	5	1/2"	THREAOLET, 1/2 NPS 3000# OUTLET, F-52, FOR RUN SIZES 3/4 TO 36, ASTM A694, MSS SP97	3000	4	Q1250510
21	7	1/2"	VALVE, CS, BALL, 2200 CWP, 1/2 NPS, FNPT x FNPT, SWAGelok, S-63TF8, W/ LOCKING DEVICE	2200	N/A	Q2700522
22	1	8"	PIPE SUPPORT, EZ LINE, 8" DOUBLE U-BOLT, MODEL# 510-FR ("D" = 1'-6 3/8")	N/A	N/A	42331215
23	2	12"	PIPE SUPPORT, EZ LINE, 12" DOUBLE U-BOLT, MODEL# 1218-FR ("D" = 1'-10 3/8")	N/A	N/A	42331437

PRESSURE PIPING

NOTE 6

ITEM #	SIZE	DESCRIPTION	FOOTAGE	O.D.	SMYS	W.T.	MAWP NOTE 14	WH #
WO# : 98428.23								
P1	12"	PIPE, CS, BARE, 12.750 OD, 0.375 WT, X65, API 5L PSL2, ERW	5'	12.75"	65,000	0.375"	1911	42338157
P2	12"	PIPE, CS, FBE CTG, 12.750 OD, 0.375 WT, X65, API 5L PSL2, ERW	96'	12.75"	65,000	0.375"	1911	42335025
P3	8"	PIPE, CS, BARE, 8.625 OD, 0.322 WT, X52, API 5L PSL2, ERW	10'	8.625"	52,000	0.322"	1941	Q0108012

MAOP DETERMINATION

(STANDARD PRACTICES 1-01-02, 1-90-01, 1-97-04)

MAOP SEGMENT NAME:	354 MAOP
PIPELINE FACILITY CLASSIFICATION:	PIPELINE
DESIGN CLASS LOCATION:	CLASS 3
MINIMUM TEST PRESSURE:	531
TEST FACTOR:	1.5
PRESSURE LIMITS	PSIG %SMYS
A. PIPE = (2St/D) x F x E x T	1911 49.98%
B. FITTING = (2St/D) x F x E x T	1911 49.98%
C. RATED ITEM	1333 NA
D. MAXIMUM DESIGN PRESSURE	720 9.26%
E. REGION PRESSURE LIMITATION	354 9.26%
MAOP (MIN A, B, C, D, E)	354 9.26%

TEST SPECIFICATION

(STANDARD PRACTICE 1-90-01 FOR HP OR 3-10-04 FOR IHP)

TEST SPECIFICATION DESIGNATION:	TS-1
PRESSURE-TEST PRESSURES:	PSIG %SMYS
MINIMUM REQUIRED:	1080 26.58%
MAXIMUM (WATER):	1200 29.54%
MAXIMUM (NITROGEN):	N/A N/A
MAXIMUM (O ₂):	N/A N/A
PRESSURE-TEST DURATIONS:	SHOP FIELD
MINIMUM DURATION:	1 HR 1 HR
SMYS CALCULATION INPUTS:	S = 65000 t = 0.375 D = 12
FABRICATION SPECIFICATION (STANDARD PRACTICE 2-10-01)	
WELD REQUIREMENTS:	API 1104
POST WELD HEAT TREATMENT:	NO
WELD INSPECTION:	VISUAL NDE
GD-OM-E-010-001 INSPECTION AND TESTING OF WELDS	100% 100% > 2"
ALL IN-SERVICE WELDING SHALL BE COMPLETED UTILIZING LOW HYDROGEN ELECTRODES (SP 2-10-01 AND SP 2-10-02)	

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:		
ENB-B-FV11839-PID-001	0	PIPING AND INSTRUMENTATION DIAGRAM	98428.23	INSTALL 12" BLOCK VALVE ASSEMBLY LBV FV-11839	0	ISSUE FOR CONSTRUCTION	2/18/2025	BJP	IAT	B POWELL		
ENB-B-FV11839-CCS-001	0	SITE AND GRADING PLAN								I TORRES		
ENB-STD-GEN-CCS-002	3	STANDARD DRAWING - EZ LINE PIPE SUPPORTS								E CLEMENCE		
										W RADFORD		
										D FRANCIS		
										D MCDONALD		

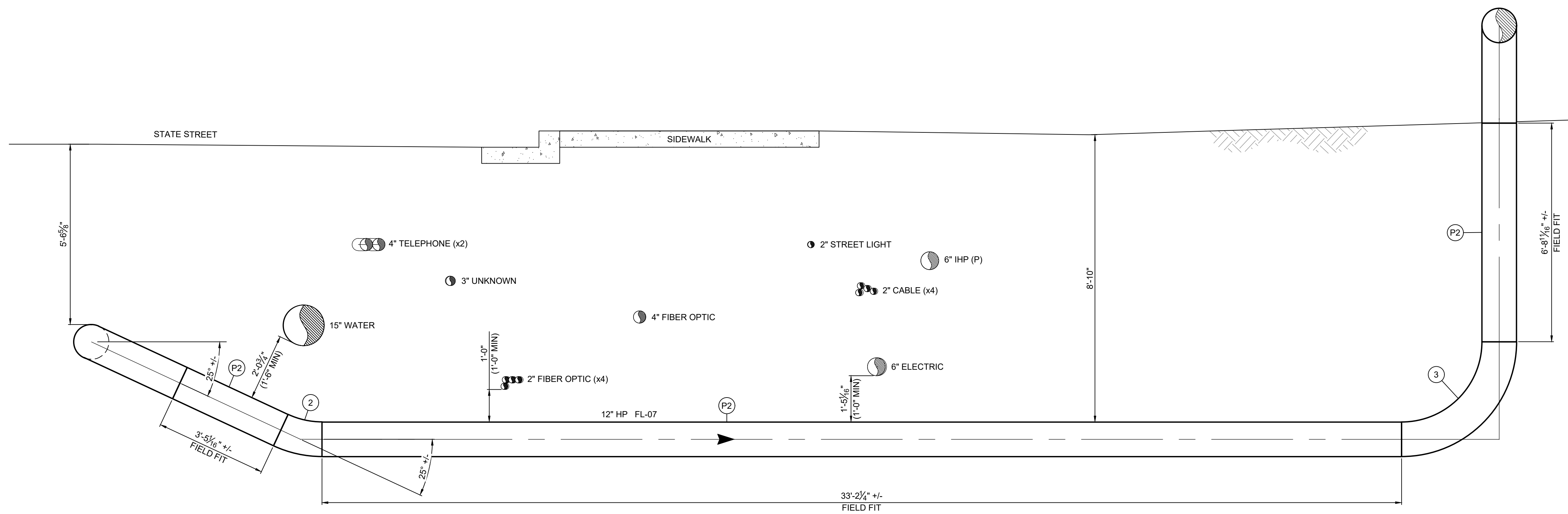
ENBRIDGE

LINE NUMBER: FL-07
 FACILITY: 12" BLOCK VALVE ASSEMBLY
 TITLE: LINE BREAK VALVE FV-11839
 DESCRIPTION: VICINITY MAP, ISOMETRIC, AND MATERIALS
 ADDRESS: 9725 STATE STREET

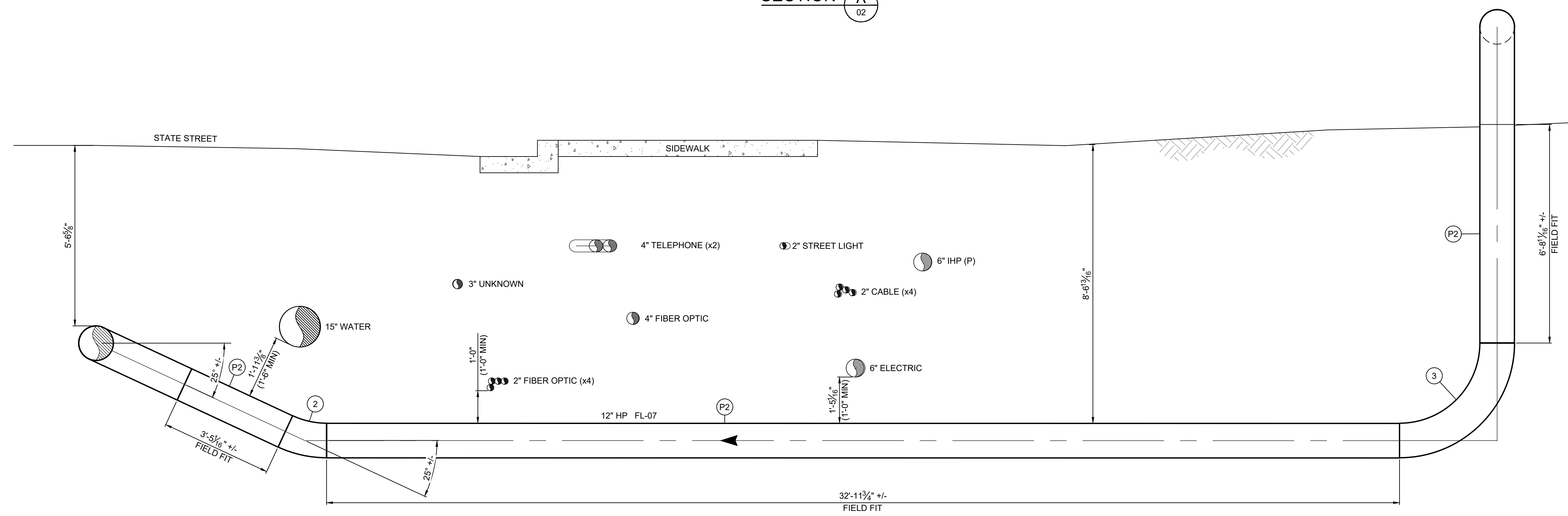
CITY: SANDY COUNTY: SALT LAKE STATE: UTAH

SECTION: 7 T3S R 1E ELEVATION: 4477' LAT: 40.5751 LONG: -111.8904 SCALE: NONE

DRAWING NUMBER: ENB-B-FV11839-PIP-001 SHEET: 1 OF 4 REVISION: 0



SECTION A
02



SECTION B
02

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	CHECKED BY:
ENB-B-FV11839-PID-001	0	PIPING AND INSTRUMENTATION DIAGRAM	98428.23	0	ISSUE FOR CONSTRUCTION	2/18/2025	BJP	IAT	B POWELL	I TORRES
ENB-B-FV11839-CCS-001	0	SITE AND GRADING PLAN							C LAIHO	E CLEMENCE
ENB-STD-GEN-CCS-002	3	STANDARD DRAWING - EZ LINE PIPE SUPPORTS							W RADFORD	D FRANCIS
									D MCDONALD	

DRAWING NUMBER		CITY		COUNTY		STATE	
ENB-B-FV11839-PIP-001	SANDY	SALT LAKE	UTAH				
SECTION: 7		T3S		R 1E		ELEVATION: 4477'	
LAT: 40.5751		LONG: -111.8904		DRAWING NUMBER		SHEET	
SCALE: 1/2" = 1'-0"		ENB-B-FV11839-PIP-001		3 OF 4		REVISION	
						0	

FL-07
12" BLOCK VALVE ASSEMBLY
LINE BREAK VALVE FV-11839
SECTION VIEWS
9725 STATE STREET

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