



ADDENDUM NO. 2

PROJECT: GCP89 – Northwestern Loop High Pressure Gas Main Extension & Two District Regulator Stations / RFB 15-22

DATE ISSUED: June 19, 2015

By this notification, Bidders are directed to make the following changes to the Project Bid Documents:

Change No.1

Project Bid Documents Affected:

- Bid Document Section V– Technical Specifications
 - o Section 000100 – Table of Contents
 - o Section 099100 - Painting

Description of change:

- Replace Section 000100 in Section V of the Bid Documents with the attached revised Section 000100, dated 19 June 2015.
- Add new Section 099100 – Painting, dated 19 June 2015, to Bid Document Section V – Technical Specifications

Reason for change: To provide a more detailed specification for the product and application of the regulator station above ground painting system.

Attached supporting documents: None

Change No.2

Project Bid Documents Affected:

- 10 Plans Sheets including:
 - o DR1-1
 - o DR1-7
 - o DR1-8
 - o DR1-9
 - o DR1-10
 - o DR2-1
 - o DR2-6
 - o DR2-7
 - o DR2-8
 - o DR2-9



Description of change:

- Add regulator control tubing details and materials to the Highway 43 and Old River Road District Regulator Station Plans
- Add conduit and riser details and materials to the Highway 43 and Old River Road District Regulator Station Plans

Reason for change: Provide Bidders with sufficient details to accurately develop their bid on the regulator station construction.

Attached supporting documents:

- 10 revised Plan Sheets dated June 19, 2015 to replace original Plan Sheets in the Bid Documents

Enclosure:

cc: All Bidders
F. Durward Tyson, Jr., P.E.
RK&K Project Files

DOCUMENT 000100 – TECHNICAL SPECIFICATIONS TABLE OF CONTENTS

SPECIFICATION	DESCRIPTION	DATED
DIVISION 00	Procurement and Contracting Requirements	
000100	Technical Specifications Table of Contents	
000115	List of Drawing Sheets	
DIVISION 01	General Requirements	
011000	Summary of Work	
013100	Project Management and Coordination	
013200	Construction Progress Documentation	
013300	Submittal Procedure	
015100	Environmental Protection	
015200	Erosion and Sediment Control	
017419	Construction Waste Management and Disposal	
017839	Project Record Documents	
019113	General Commissioning Requirements	
019115	Pipeline Cleaning, Testing, Drying, Tie-In, Purging, and Gas-Up	
019120	Regulator Station Cleaning, Testing, Tie-In, Purging, and Gas-Up	
DIVISION 03	Concrete	
033000	Cast In Place Concrete	
DIVISION 05	Metals	
055101	Natural Gas Pipeline Welding	
055110	Steel Natural Gas Pipeline Construction	
055120	Regulator Station Construction	
DIVISION 09	FINISHES	
099100	<i>Painting</i>	
DIVISION 26	Electrical	
264200	Cathodic Protection	
264210	AC Mitigation	
DIVISION 31	Earthwork	
311000	Clearing	
315001	Excavation, Trenching and Backfilling for Pipeline	
315010	Horizontal Directional Drilling	
315050	Jacking and Boring	

SPECIFICATION	DESCRIPTION	DATED
DIVISION 32	Exterior Improvements	
321100	Regulator Station Site Work	
321216	Asphalt Paving	
323113	Chain Link Fences and Gates	
329100	ROW Restoration	

END OF DOCUMENT 000100

SECTION 099100 - PAINTING

PART 1 - GENERAL

1.1 SCOPE

- A. This specification outlines the minimum requirements for paint and other materials, and the surface preparation, application, and inspection of protective coatings for the above ground district regulator station piping.
- B. DEFINITIONS
 - 1. Paint – Refers to the protective coating system applied to above ground metallic piping.
 - 2. MSDS – Material Safety Data Sheet
 - 3. NIOSH – National Institute of Occupational Safety and Health
 - 4. Battleship Gray – Paint color matching the color on Owner’s existing gray, above ground, facility piping.
 - 5. DFT – Dry film thickness
- C. REFERENCES
 - 1. The publication listed below form a part of this section to the extent referenced.
 - a. SSPC
 - 1) PA 2, 2012 Edition: Measurement of Dry Paint Thickness with Magnetic Gauges
 - 2) SSPC-SP 1, 2004 Edition: Solvent Cleaning
 - 3) SSPC-SP 2, 2004 Edition: Hand Tool Cleaning
 - 4) SSPC-SP 3, 2004 Edition: Power Tool Cleaning
 - 5) SSPC-SP 5, 2007 Edition: White Metal Blasting
 - a) NACE No.1
 - 6) SSPC-SP 6, 2007 Edition: Commercial Blast Cleaning
 - a) NACE No.3
 - 7) SSPC-SP 10, 2007 Edition: Near White Metal Blasting
 - a) NACE No.2
 - 8) SSPC-SP 11, 2012 Edition: Power Tool Clean to Bare Metal
 - 9) SSPC VIS 1-89: Visual Standards for Abrasive Blast Cleaned Steel
 - 10) SSPC AB 1, 2007 Edition: Abrasive Specification No.1 Mineral and Slag Abrasives
 - b. NAPCA TGF-3
 - 1) National Association of Pipe Coating Application Specifications and Plant Coating Guide
 - c. OSHA 29CFR1910.1025
 - 1) Lead
 - d. ASTM D 4417-11
 - 1) Field Measurement of Surface Profile of Blast Cleaned Steel- D.

PART 2 - PRODUCTS

2.1 COATING SYSTEM

- A. Type: Zinc, Epoxy, Polyurethane
- B. Services Temperature: Up to 200° F
- C. Surface Preparation: In accordance with the requirements of SSPC-SP 6 for Commercial Metal Blast Cleaning.
- D. Anchor Profile Mils: 2.0 to 3.0
- E. Primer Coat: SHERWIN WILLIAMS Zinc Clad 200, 3.0 to 5.0 mils DFT
- F. Intermediate Coat: SHERWIN WILLIAMS Macropoxy 646 (4.35), 4.0 to 6.0 mils DFT
- G. Top Coat: SHERWIN WILLIAMS Hi-Solids Polyurethane 3.0 to 4.0 mils DFT

2.2 OR an approved equal coating system.

PART 3 - EXECUTION

3.1 PREPARATION AND APPLICATION

- A. Contractor shall follow the coating manufacturer's instructions for preparation and application
- B. Contractor shall follow the recommended practices and all regulations applicable to the paint system being applied to the surface piping.

3.2 QUALITY CONTROL

- A. The Contractor shall control the quality of materials and services to meet the intended requirements of this Specification, and applicable codes and standards.
- B. The Contractor is to consider weather conditions and prevent overspray from painting to damage the Owner's equipment and property as well as the public's equipment and property.
- C. The Contractor shall provide all product and material information to the Engineer prior to performing and preparation or painting operations.

END OF SECTION 099100

SYMBOL	DESCRIPTION
	CENTERLINE
	HYDRO
	EXISTING FENCE
	EXISTING GUARD RAIL
	EXISTING EDGE-OF-PAVEMENT
	EXISTING DRIVEWAY/PATH
	EXISTING GAS TO REMAIN
	EXISTING UTILITY EASEMENT
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY (R/W)
	EXISTING SANITARY SEWER
	EXISTING STORM DRAINAGE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING UNDERGROUND TELEPHONE CABLE
	EXISTING UNDERGROUND FIBER OPTIC
	EXISTING WATER
	BORROW PIT
	WETLAND BOUNDARY
	RIPARIAN BARRIER
	AE FLOODWAY
	AE FLOODZONE
	PROPOSED TEMPORARY WORKSPACE
	PROPOSED UTILITY EASEMENT
	PROPOSED FENCE
	PROPOSED GAS PIPE ABOVE GRADE (DOUBLE LINE)
	PROPOSED GAS PIPE BELOW GRADE (DOUBLE LINE)

NOTES:

- ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
- ALL PIPING TO BE FABRICATED & TESTED IN ACCORDANCE WITH 49 CFR 192 AND PROJECT SPECIFICATIONS.
- ALL PIPE WELDING TO BE PERFORMED PER GUC WELD STANDARDS AND PROJECT SPECIFICATIONS.
- ALL PIPING SHALL BE THOROUGHLY CLEANED OF MILL SCALE, WELD SLAG, & RUST PRIOR TO ASSEMBLY.
- ALL PIPING SHALL BE VISUALLY INSPECTED BY ENGINEER/OWNER PRIOR TO FABRICATION OF ASSEMBLY.

<u>SYMBOL</u>	<u>DESCRIPTION</u>
EX.	EXISTING
ST	STEEL
PE	POLYETHYLENE
PGS	PROPOSED GAS SERVICE
PROP.	PROPOSED
RCP	REINFORCED CONCRETE PIPE
STA	STATION
	INSULATING FLANGE LOCATION
	PROPOSED ITEM NUMBER
	FLOW ARROW
	EARTH
	GRAVEL
	CONCRETE
	<u>DETAIL IDENTIFICATION</u> SHEET NUMBER
	<u>SECTION IDENTIFICATION</u> SHEET NUMBER

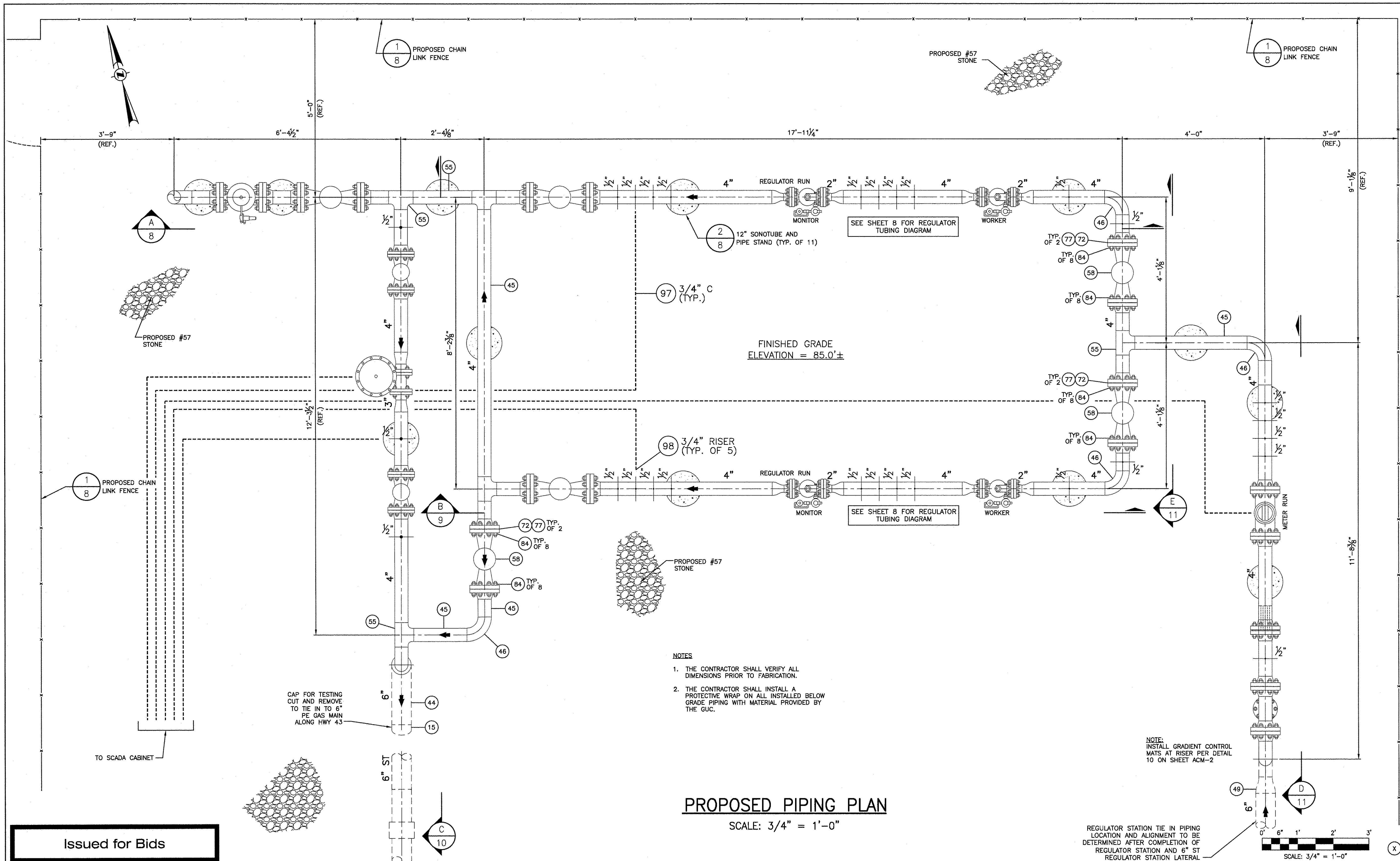
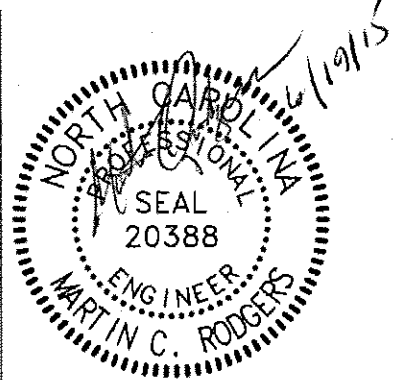
*BASE PLATE OF PIPE STAND SHALL HAVE $\frac{3}{4}$ "x $1\frac{1}{2}$ " SLOTTED HOLES TO ACCOMMODATE $\frac{5}{8}$ " BOLTS.


**Greenville
Utilities**

BILL OF MATERIALS,
DRAWING LEGEND,
AND GENERAL NOTES

REVISION: 0

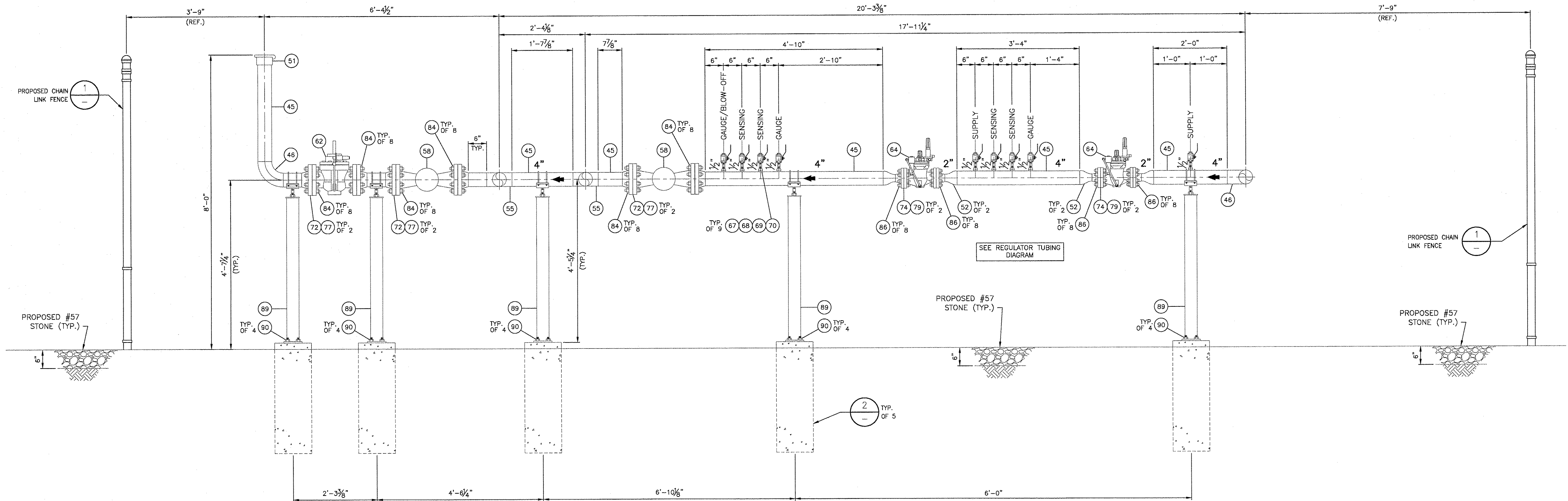
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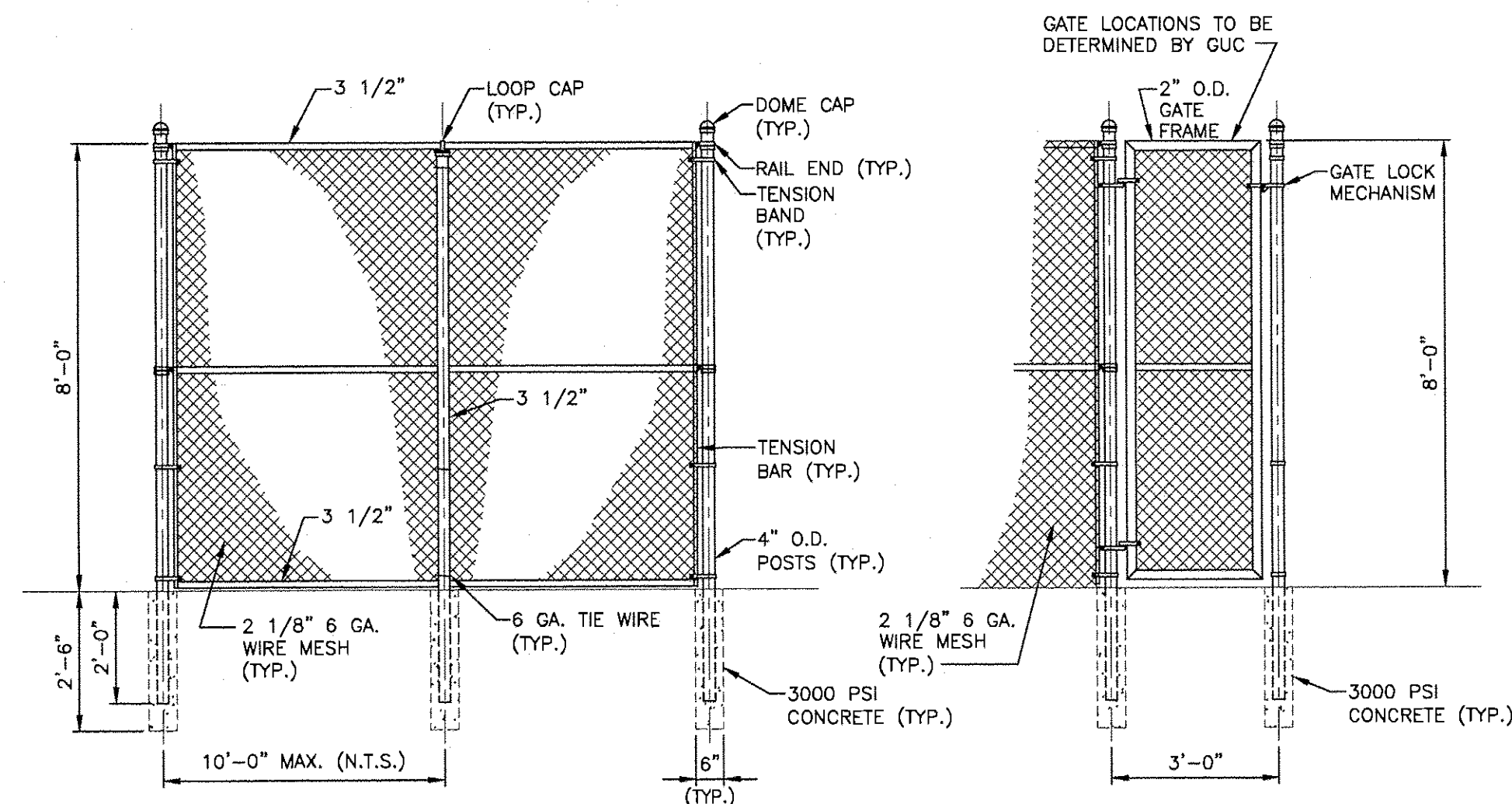
PROPOSED PIPING PLAN
SCALE: 3/4" = 1'-0"

Issued for Bids

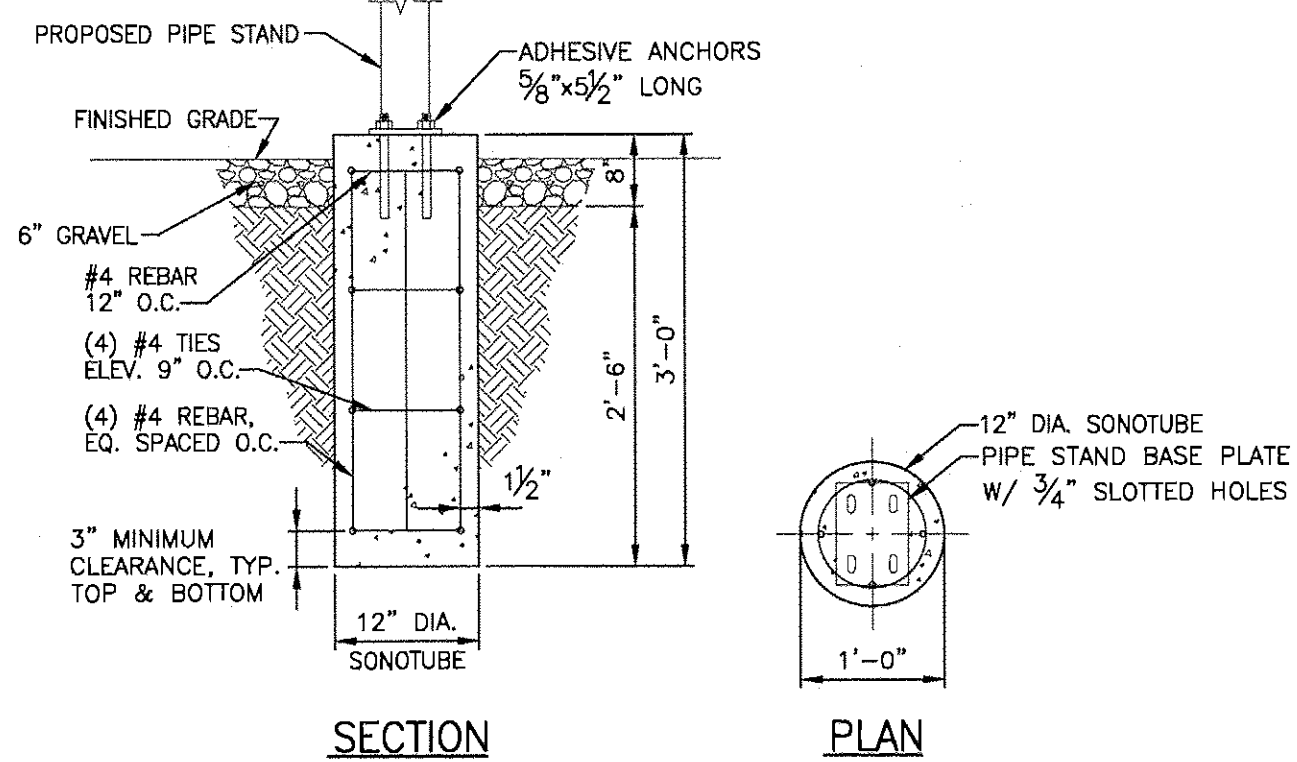
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							INITIALS	DATE	INITIALS	DATE	INITIALS	DATE						
							SURVEY											
							C.P.											
							DRAFTING & DESIGN – RK&K											
							ENGINEERING – RK&K											



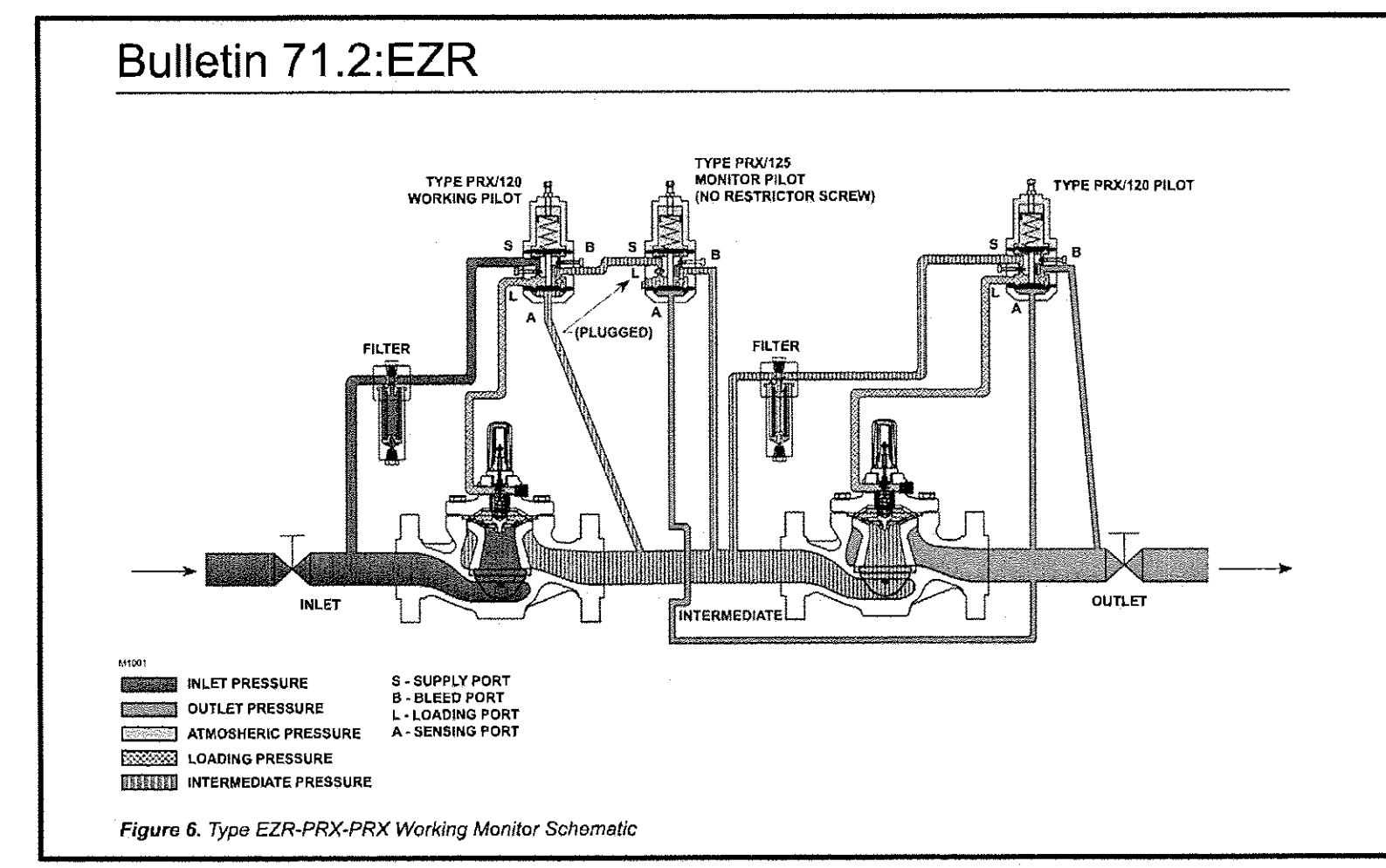
SECTION A
SCALE: 3/4" = 1'-0"



PROPOSED FENCE DETAILS
DETAIL 1
SCALE: 3/8" = 1'-0"

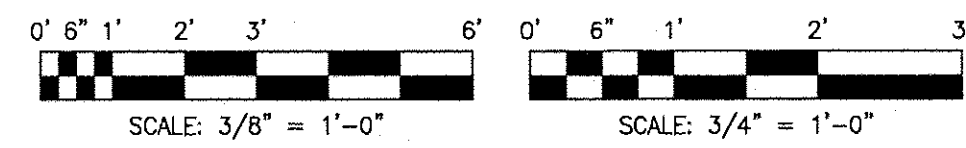


PIPE STAND FOUNDATION DETAILS
DETAIL 2
SCALE: 3/4" = 1'-0"



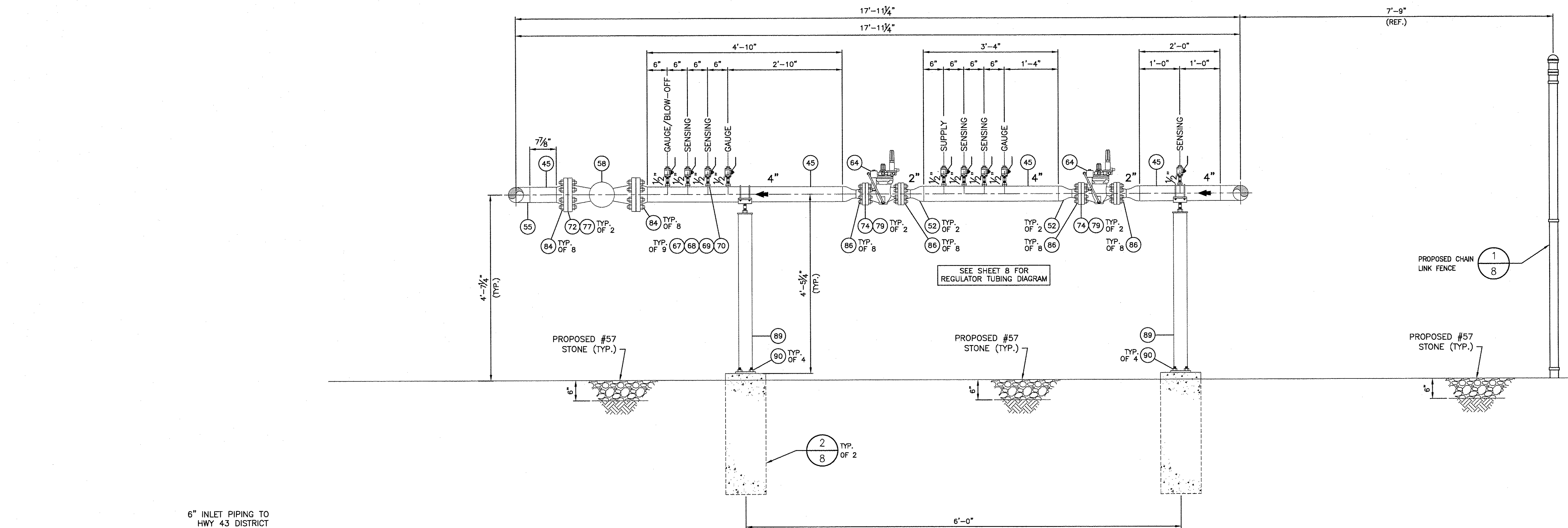
Issued for Bids

- NOTES**
1. THE CONTRACTOR SHALL INSTALL A PROTECTIVE WRAP ON ALL INSTALLED BELOW GRADE PIPING WITH MATERIAL PROVIDED BY THE GUC.
 2. ALL TAPS FOR WELDOLETS AND THREDOLETS SHALL BE FULL BORE.
 3. SITE SHALL BE GRADED AS TO ALLOW FOR PROPER DRAINAGE AWAY FROM REGULATOR PIPING.

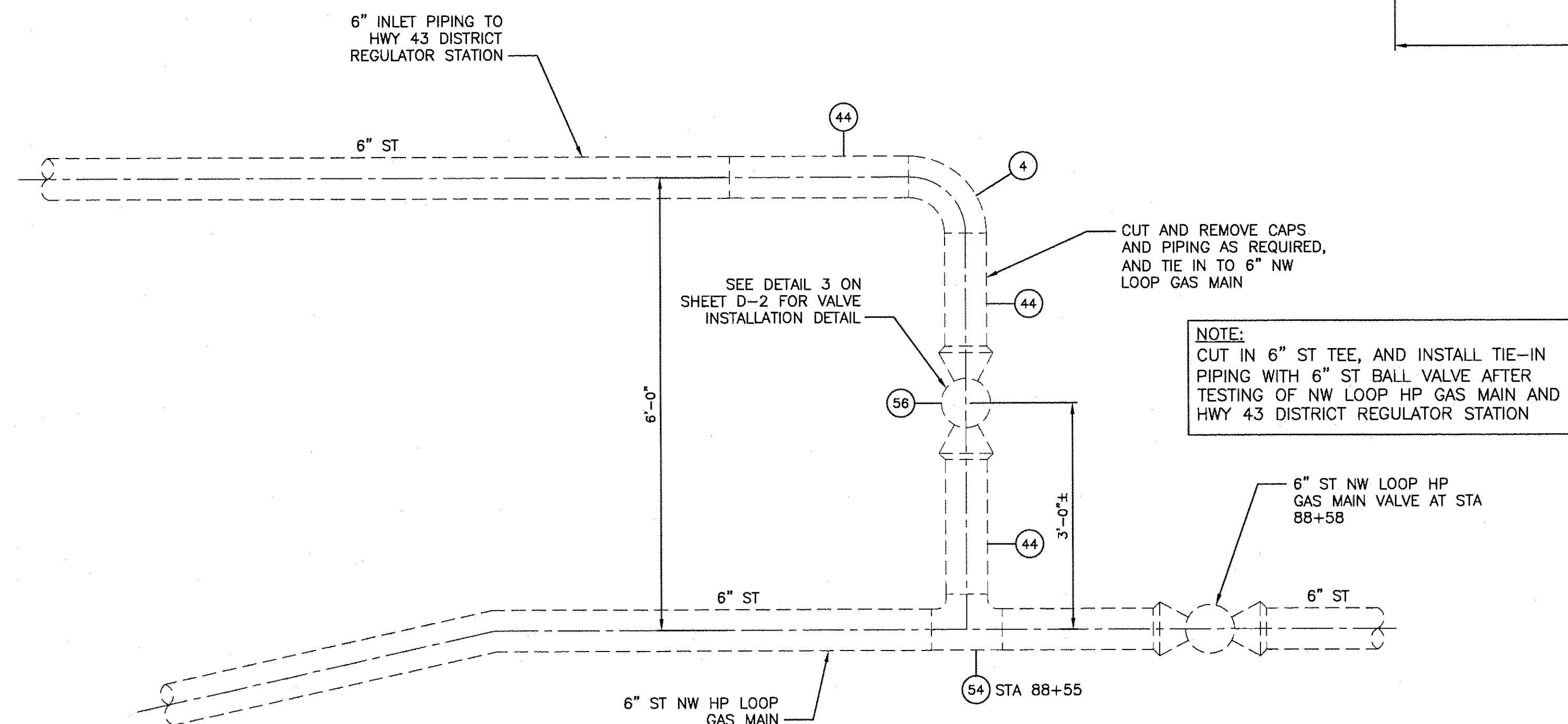


(X) REFER TO SHEET 1 FOR BILL OF MATERIALS

SUMMARY OF MATERIALS				NOTES				APPROVAL				PROJECT				 Greenville Utilities	
ITEM	QUANTITY	DESCRIPTION						PERMITS		BID		CONSTRUCTION		GCP89 – HIGHWAY 43 DISTRICT REGULATOR STATION			
								INITIALS	DATE	INITIALS	DATE	INITIALS	DATE				

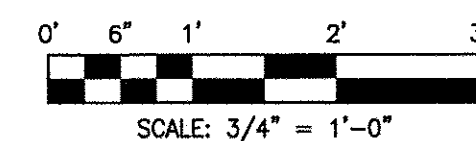


SECTION B
SCALE: 3/4" = 1'-0"



HWY 43 TIE IN DETAIL
DETAIL 3
SCALE: 3/4" = 1'-0"

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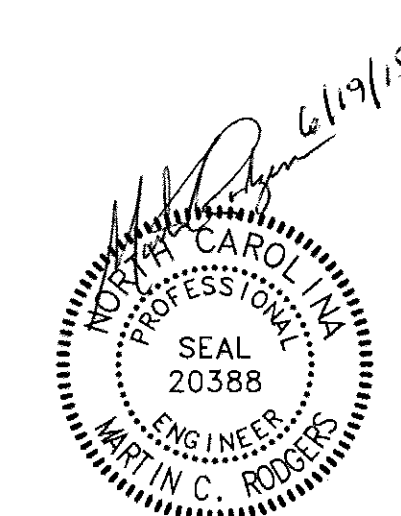


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SUMMARY OF MATERIALS			NOTES			APPROVAL			PROJECT		
ITEM	QUANTITY	DESCRIPTION				PERMITS	BID	CONSTRUCTION	GCP89 - HIGHWAY 43 DISTRICT REGULATOR STATION		
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			REV.	DESIGN	DRAFT	CHECK	DATE	DATE	ALIGNMENT SHEET		
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									TEST DATA TESTED FROM STATION: _____ TO STATION: _____ MEDIUM: _____ RECORD TEST PRESSURE: _____ psig DATE TEST COMPLETED: _____		
									SCALE PLAN AS SHOWN PROFILE HOR. - VERT. -		
									SHEET DESCRIPTION PIPING SECTION AND TIE-IN DETAIL SHEET: DR1-9 REVISION: 0		



DRAWING LEGEND

SYMBOL	DESCRIPTION
	CENTERLINE
	HYDRO
	EXISTING FENCE
	EXISTING GUARD RAIL
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	EXISTING DRIVEWAY/PATH
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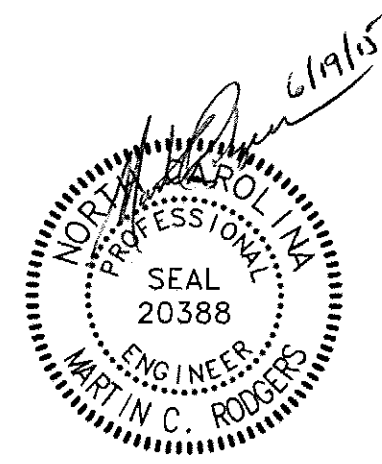
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DRAWING LEGEND

SYMBOL	DESCRIPTION
EX.	EXISTING
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PE	POLYETHYLENE
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RCP	REINFORCED CONCRETE PIPE
STA	STATION
	INSULATING FLANGE LOCATION
	PROPOSED ITEM NUMBER
	FLOW ARROW
	EARTH
	GRAVEL
	CONCRETE
	DETAIL IDENTIFICATION SHEET NUMBER
	SECTION IDENTIFICATION SHEET NUMBER

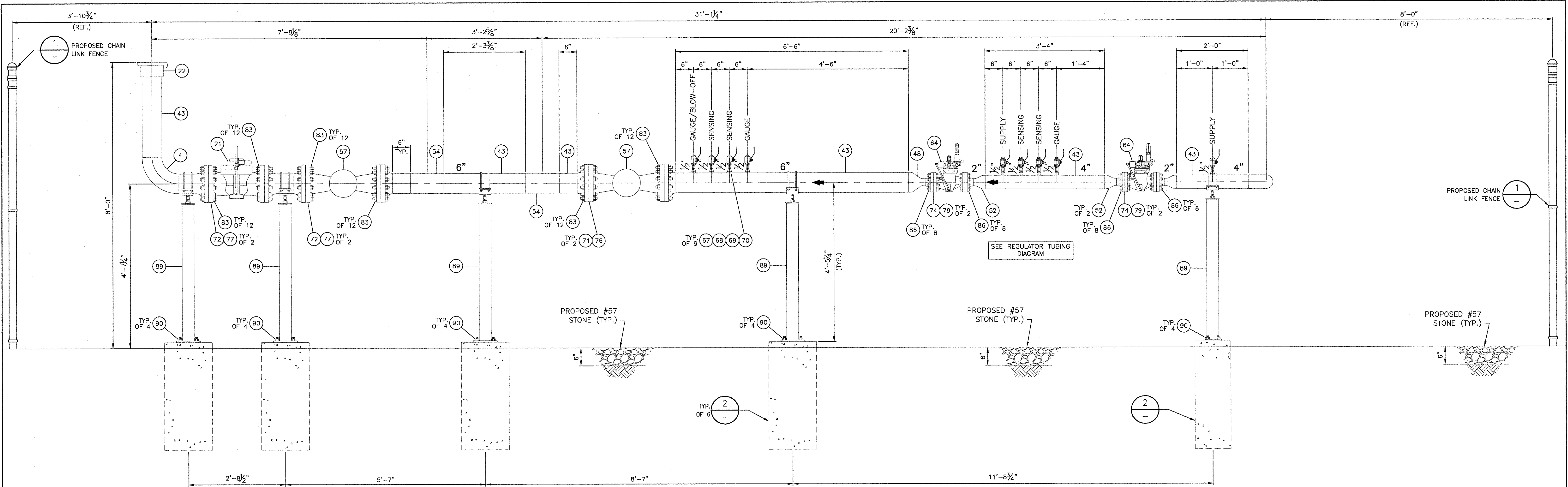
Item	Quantity	Unit	Size	Description of Station Materials
4	5	EA	6"	Elbow, 90°, LR, X-52, SCH 40, 0.280" w.t.
15	2	EA	6"	Cap, Y-52, 0.280" w.t.
16	2	EA	6"	Valve, Ball, Flanged End, ANSI 150, Kerotest Weldball or equivalent
20	4	EA	6"	Weld Neck Flange, RF, ANSI 150, WT = 0.280", Bore = 6.065"
21	1	EA	6"	Valve, Relief, Flanged End, ANSI 300, Fisher 63EG w/ 6458 series pilot
22	1	EA	6"	Weather Cap
25	10	LF	4"	Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L
33	50	LF	6"	Polyethylene Medium Density Plastic Pipe
35	1	EA	6"	Elbow, 90°, LR, Polyethylene Medium Density Plastic, Butt Fusion
37	1	EA	6"	Cap, Polyethylene Medium Density Plastic, Butt Fusion
40	1	EA	6"	Transition Fitting, Steel 0.280" Wall, X-52 x Polyethylene Medium Density Plastic
42	4	EA	8' x 4'	Gradient Control Mat
43	60	LF	6"	Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L
44	20	LF	6"	Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L
45	60	LF	4"	Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L
46	7	EA	4"	Elbow, 90°, LR, Y-52, SCH 40, 0.237" w.t.
48	2	EA	6"x2"	Reducer, Weld End, Concentric, Y-52, WT = 0.280" x 0.154"
49	3	EA	6"x4"	Reducer, Weld End, Concentric, Y-52, WT = 0.280" x 0.237"
50	2	EA	6"x3"	Reducer, Weld End, Concentric, Y-52, WT = 0.280" x 0.216"
52	6	EA	4"x2"	Reducer, Weld End, Concentric, Y-52, WT = 0.237" x 0.154"
54	4	EA	6"	Tee, Weld End, Straight, Y-52, WT = 0.280" x 0.280"
55	3	EA	4"	Tee, Weld End, Straight, Y-52, WT = 0.237" x 0.237"
57	3	EA	6"	Valve, Ball, Flanged End, ANSI 300, Kerotest Weldball or equivalent
58	4	EA	4"	Valve, Ball, Flanged End, ANSI 300, Kerotest Weldball or equivalent
59	1	EA	3"	Valve, Ball, Flanged End, ANSI 150, Fisher Vee-Ball V150 w/ Fisher 2052 Diaphragm Rotary Actuator
61	1	EA	4"	Meter, Flanged End, ANSI 300, Equimeter Model No. AAT18/27
62	1	EA	6"	Flange Insulation Kit, ANSI 300, Type E, Linebacker, Double Washer Set, w/Full Length Phenolic Sleeves
63	1	EA	4"	Strainer, Tee Style, Flanged End, ANSI 300, Apollo Engineering Model TSF
64	4	EA	2"x1"	Regulator, Pressure Reducing, Flanged End, ANSI 300, Fisher Type EZR
65	1	EA	4"	Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-4" (*)
66	32	EA	(6") ANSI 150	Stud Bolts, All Thread, 3/4" Diameter x 4 1/2" Long, Grade B-7, ASTM A-194, w/2 A-194, Grade 2H Heavy Hex Nuts (8 bolts per connection)
67	27	EA	36"-4" x 1/2"	Thredolet, 3000#
68	28	EA	1/2" x 2"	Pipe Nipple, Extra Strong, Grade B, Seamless C.S., thread both ends
69	28	EA	1/2"	Valve, Ball, Class 3000, NFPT X NFPT, lockable, Swagelok Series 60 or equivalent
70	26	EA	1/2"	Pipe plug, Hex Head, Extra Strong, F.S., screwed
71	10	EA	6"	Weld Neck Flange, RF, ANSI 300, WT = 0.280", Bore = 6.065"
72	16	EA	4"	Weld Neck Flange, RF, ANSI 300, WT = 0.237", Bore = 4.020"
73	2	EA	3"	Weld Neck Flange, RF, ANSI 150, WT = 0.216", BORE = 3.068"
74	8	EA	2"	Weld Neck Flange, RF, ANSI 300, WT = 0.154", Bore = 2.067"
76	8	EA	6"	Gasket, Spiral Wound, Flexitallic, ANSI 300
77	14	EA	4"	Gasket, Spiral Wound, Flexitallic, ANSI 300
78	2	EA	3"	Gasket, Spiral Wound, Flexitallic, ANSI 150
79	8	EA	2"	Gasket, Spiral Wound, Flexitallic, ANSI 300
81	1	EA	4"	Straightening Vanes, Apollo Engineering, Model No. 04F30-90-00
82	2	EA	4"	Flange Insulation Kit, ANSI 300, Type E, Linebacker, Double Washer Set, w/Full Length Phenolic Sleeves
83	108	EA	(6") ANSI 300	Stud Bolts, All Thread, 3/4" Diameter x 5" Long, Grade B-7, ASTM A-194, w/2 A-194, Grade 2H Heavy Hex Nuts (12 bolts per connection)
84	120	EA	(4") ANSI 300	Stud Bolts, All Thread, 3/4" Diameter x 4 1/2" Long, Grade B-7, ASTM A-194, w/2 A-194, Grade 2H Heavy Hex Nuts (8 bolts per connection)
85	8	EA	(3") ANSI 150	Stud Bolts, All Thread, 5/8" Diameter x 3 3/4" Long, Grade B-7, ASTM A-194, w/2 A-194, Grade 2H Heavy Hex Nuts (4 bolts per connection)
86	64	EA	(2") ANSI 300	Stud Bolts, All Thread, 5/8" Diameter x 3 1/2" Long, Grade B-7, ASTM A-194, w/2 A-194, Grade 2H Heavy Hex Nuts (8 bolts per connection)
88	7	EA	6"	Pipe Support, EZ-Line, Model 510, Figure F w/ Neoprene Liner, Part No. 510-F, 6" P.S., D-4'-5" (*)
89	5	EA	4"	Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-4'-5" (*)
90	48	EA	5/8" x 5 1/2"	Expansion Bolt, HILTI HVA, Adhesive System w, Carbon Steel Threaded Rods
91	1 ROLL	NA	NA	Rock Shield
92	1	EA	4"	Double Pipe Support, EZ-Line, Model DPS-4
93	2	EA	3/4" Dia. x 10'L	Copperclad Steel Ground Rod
94	20	LF	NA	#3/0 THWN Stranded Copper Wire
95	2	EA	NA	Grounding Mold
96	8	EA	NA	Cable to Rod/Tube Ground Connector
97	150	LF	3/4"	PVC Conduit
98	5	EA	3/4"	Rigid Galvanized Conduit Riser
				Electric conduit, risers, conductors, and seals to be provided by owner

*BASE PLATE OF PIPE STAND SHALL HAVE 3/4"x1/2" SLOTTED HOLES TO ACCOMMODATE 5/8" EXPANSION BOLTS.

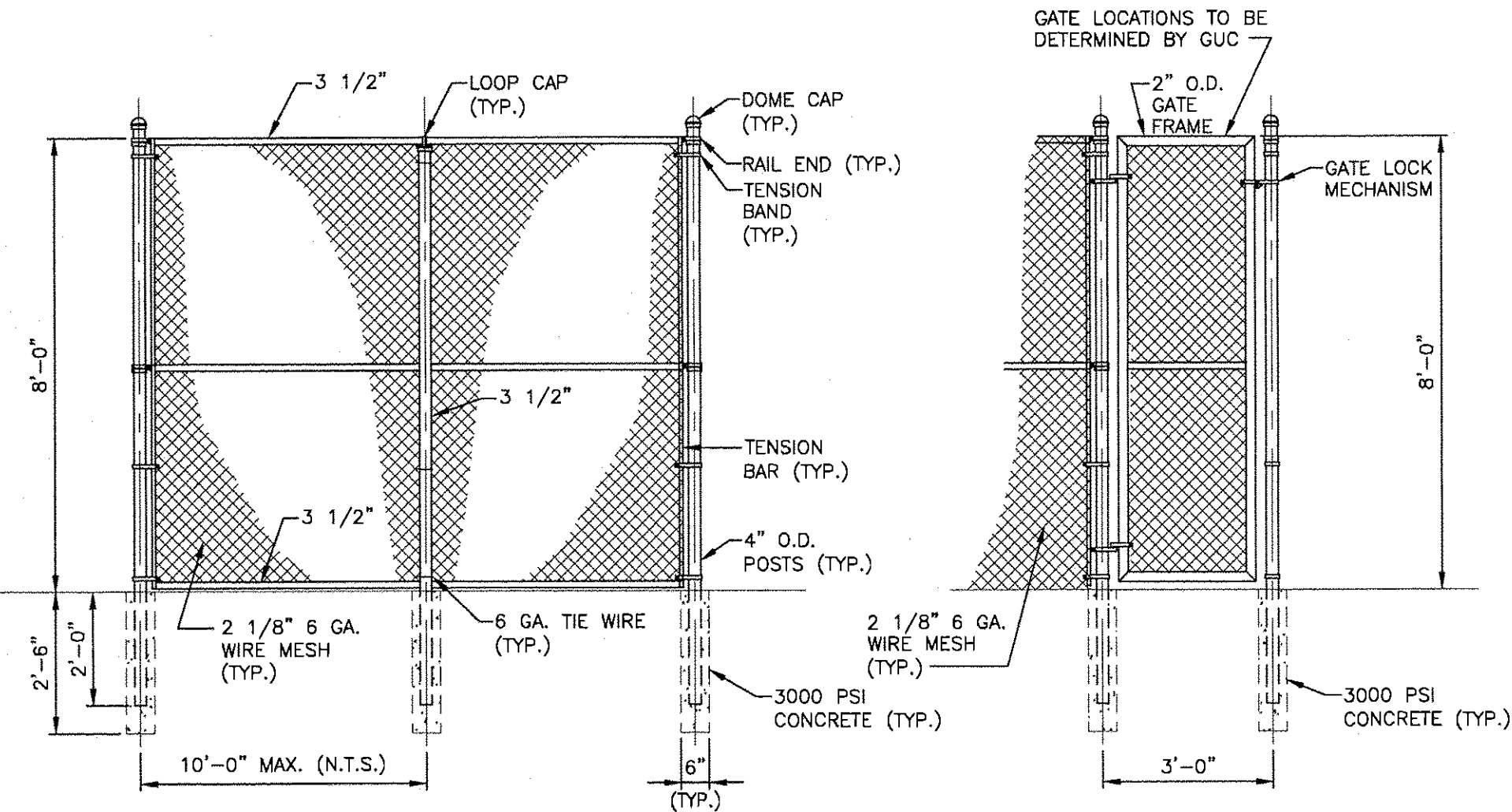
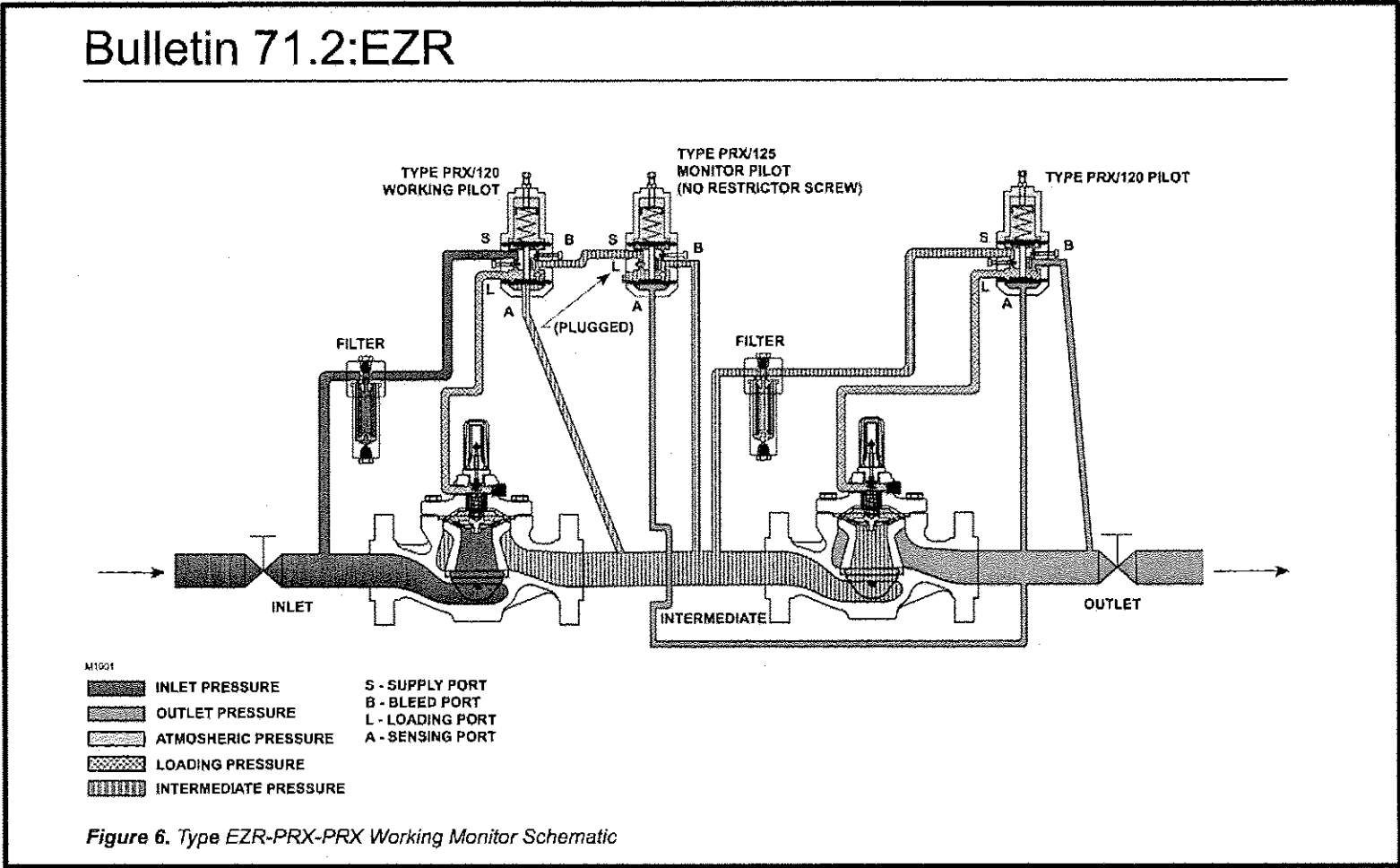


Issued for Bids

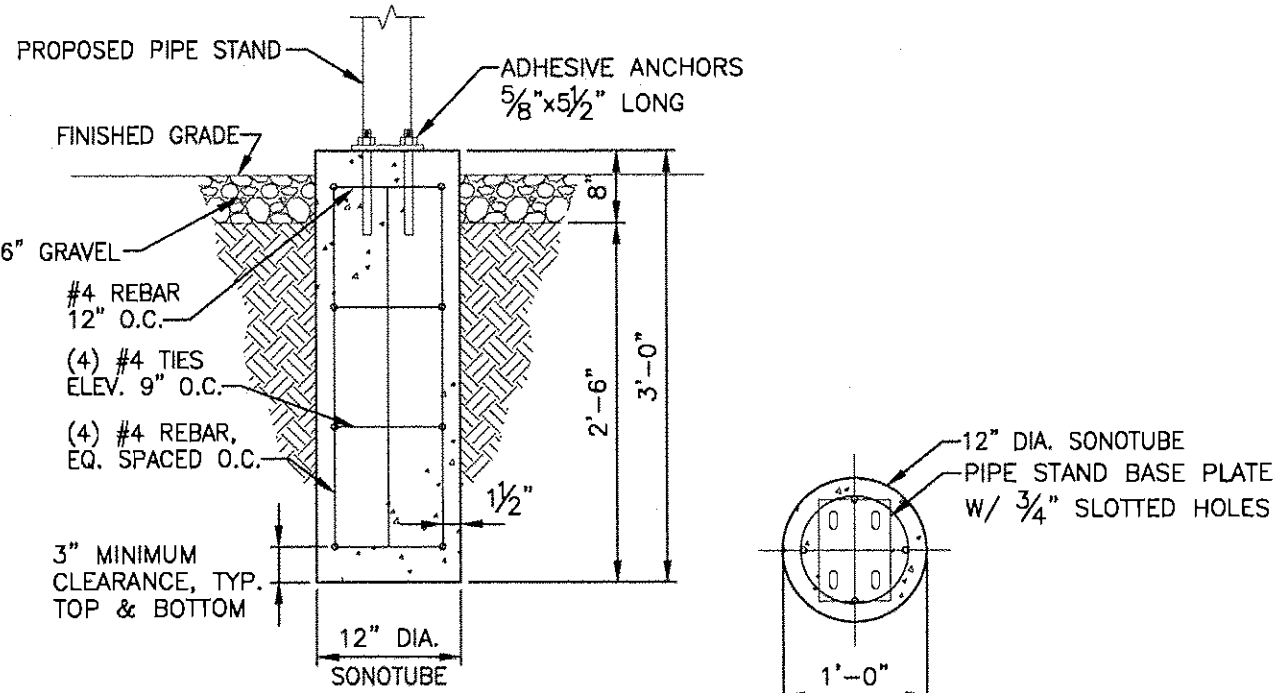
SUMMARY OF MATERIALS				NOTES				APPROVAL						PROJECT				
ITEM	QUANTITY	DESCRIPTION						PERMITS		BID		CONSTRUCTION		GCP89 – OLD RIVER ROAD DISTRICT REGULATOR STATION				
								INITIALS	DATE	INITIALS	DATE	INITIALS	DATE					
								SURVEY										
								C.P.										
								DRAFTING & DESIGN – RK&K		CSY	5/20	CSY	6/19	–	–			
								ENGINEERING – RK&K		MCR	5/20	MCR	6/19	–	–			



SECTION A
SCALE: 3/4" = 1'-0"



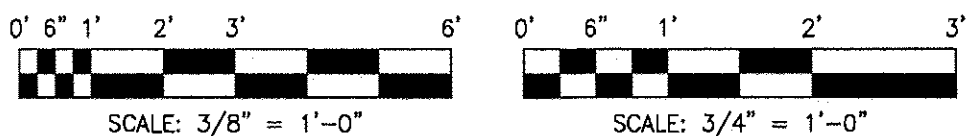
PROPOSED FENCE DETAILS
DETAIL 1
SCALE: 3/8" = 1'-0"



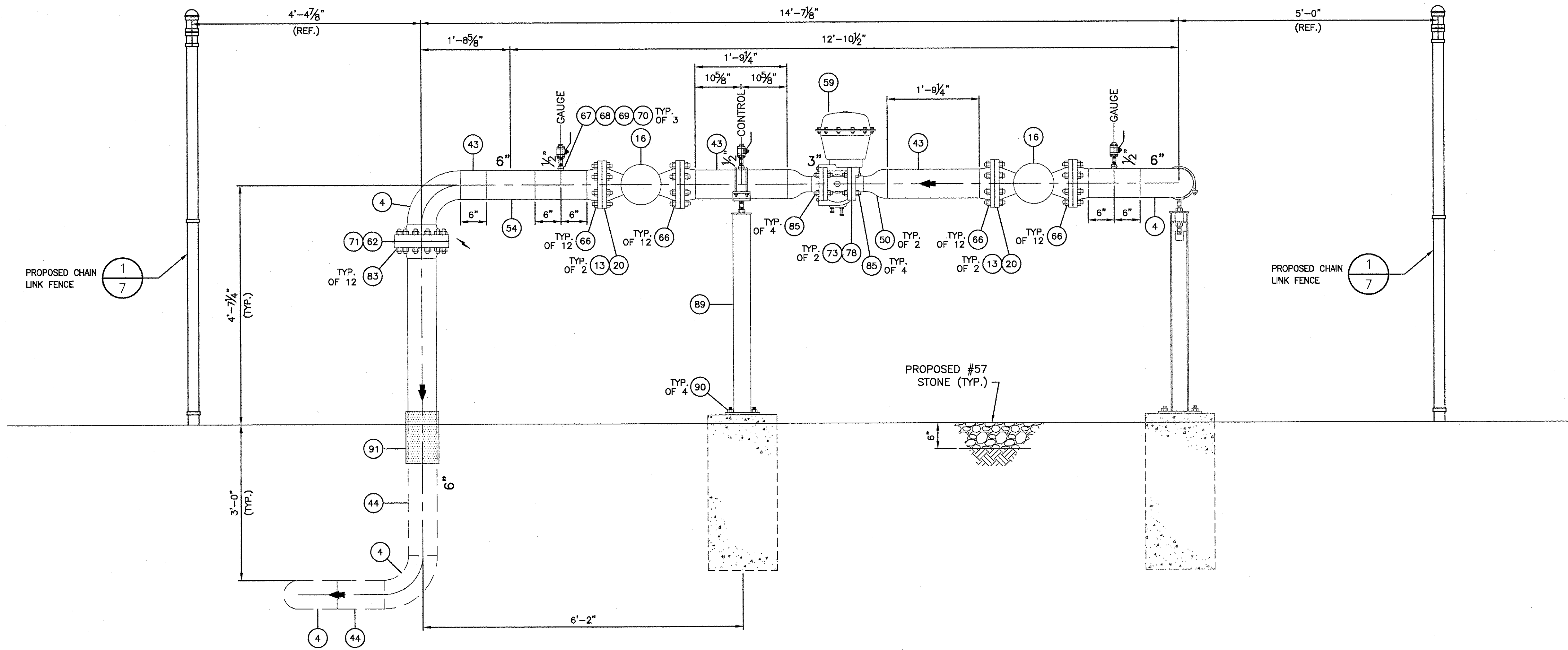
SECTION
PIPE STAND FOUNDATION DETAILS
DETAIL 2
SCALE: 3/4" = 1'-0"

Issued for Bids

- NOTES
1. THE CONTRACTOR SHALL INSTALL A PROTECTIVE WRAP ON ALL INSTALLED BELOW GRADE PIPING WITH MATERIAL PROVIDED BY THE GUC.
 2. ALL TAPS FOR WELDOLETS AND THREDOLETS SHALL BE FULL BORE.
 3. SITE SHALL BE GRADED AS TO ALLOW FOR PROPER DRAINAGE AWAY FROM METER & REGULATOR STATION.

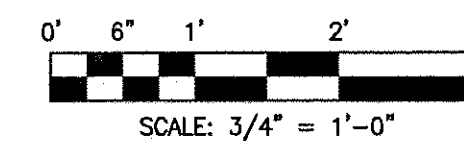


SUMMARY OF MATERIALS					NOTES					APPROVAL					PROJECT					 Greenville Utilities							
ITEM	QUANTITY	DESCRIPTION								PERMITS					BID					CONSTRUCTION					GCP89 – OLD RIVER ROAD DISTRICT REGULATOR STATION		
				INITIALS						DATE	INITIALS	DATE	INITIALS	DATE													
					REVISIONS					TEST DATA					ALIGNMENT SHEET					SHEET DESCRIPTION PIPING SECTION AND DETAILS SHEET: DR2-9 REVISION: 0							
					REV.	DESIGN	DRAFT	CHECK	DESCRIPTION					DATE	RK&K PLANNED, PERMITTED & PAID, LLP 2100 E. CARY ST. SUITE 209 RICHMOND, VIRGINIA 23263 T-804.782.1903 F-804.782.2142 ENGINEERS CONSTRUCTION MANAGERS PLANNERS SCIENTISTS RK&K COMM. NO. 1214-011-C								SCALE PLAN AS SHOWN PROFILE HOR. - VERT. -				



SECTION C
SCALE: 3/4" = 1'-0"

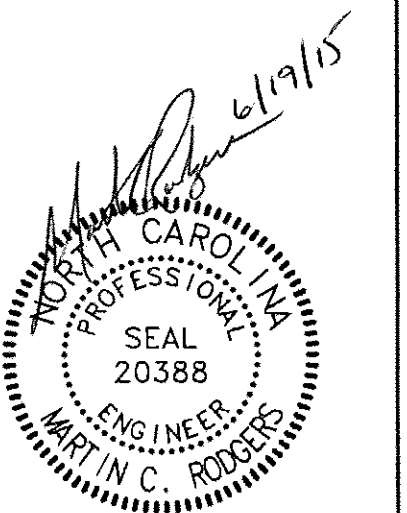
Issued for Bids



(X) REFER TO SHEET 1 FOR BILL OF MATERIALS

NOTES

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SUMMARY OF MATERIALS			NOTES				APPROVAL			PROJECT		 Greenville Utilities	
ITEM	QUANTITY	DESCRIPTION								GCP89 – OLD RIVER ROAD DISTRICT REGULATOR STATION			