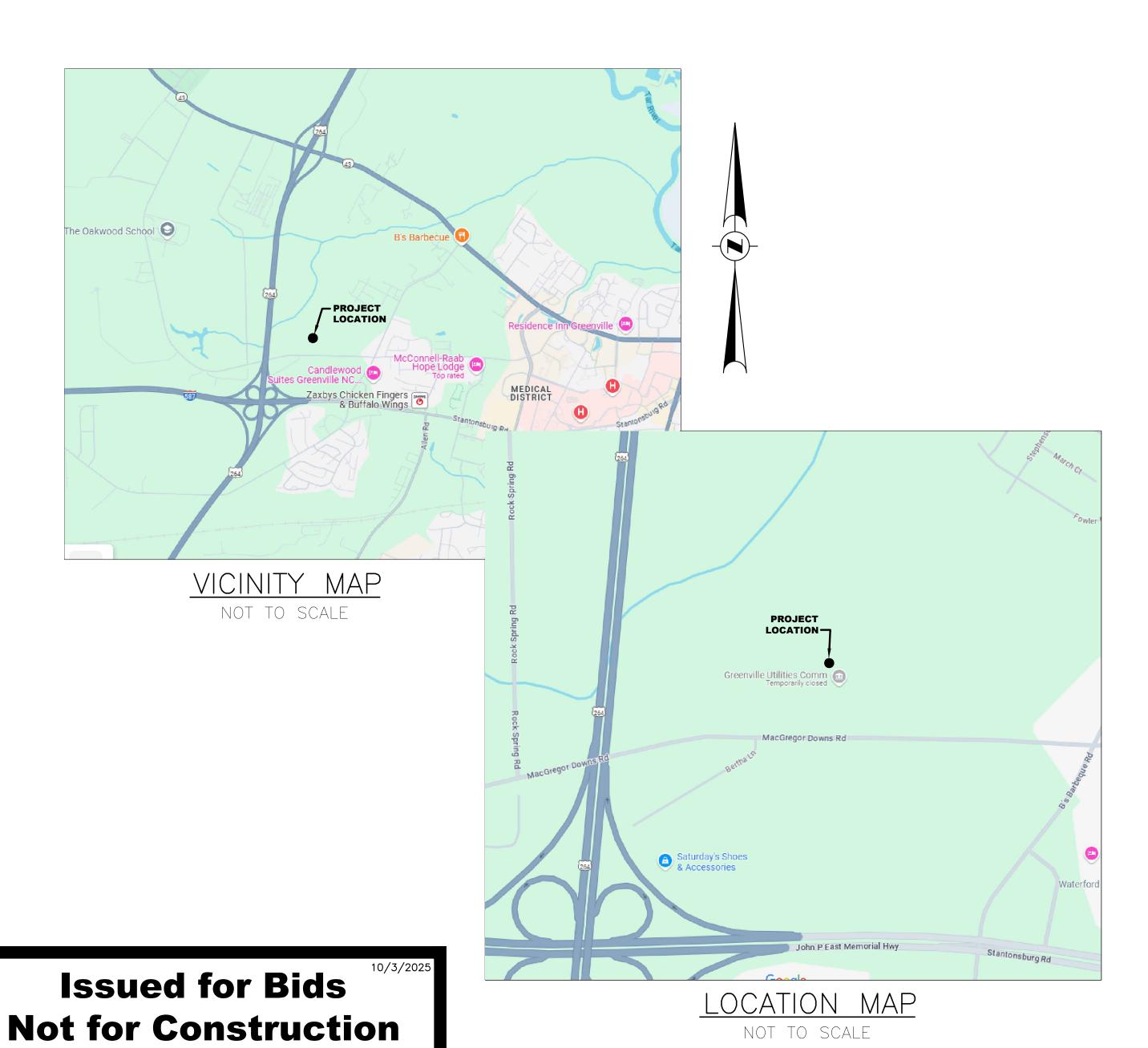


Greenville Utilities



Greenville Substation Metering and Regulation Station City of Greenville, North Carolina

October 3, 2025



| SHEET DESCRIPTION | SHEET NUMBER | REVISION |
|--|---------------|----------|
| COVER SHEET | _ | - |
| BILL OF MATERIALS, DRAWING LEGEND AND GENERAL NOTES | 1 OF 12 | 0 |
| EXISTING CONDITIONS PLAN | 2 OF 12 | 0 |
| PROPOSED GENERATOR M&R STATION PIPING PLAN | 3 OF 12 | 0 |
| PROPOSED GENERATOR M&R STATION PIPING PLAN | 4 OF 12 | 0 |
| PROPOSED PIPING ELEVATIONS | 5 OF 12 | 0 |
| PROPOSED PIPING ELEVATIONS | 6 OF 12 | 0 |
| PROPOSED PIPING ELEVATIONS AND REGULATOR SCHEM | MATIC 7 OF 12 | 0 |
| PROPOSED PIPING ELEVATIONS | 8 OF 12 | 0 |
| CONCRETE DETAILS | 9 OF 12 | 0 |
| PROPOSED CATHODIC PROTECTION PLAN | 10 OF 12 | 0 |
| PROPOSED CATHODIC PROTECTION DETAILS | 11 OF 12 | 0 |
| PROPOSED CATHODIC PROTECTION DETAILS | 12 OF 12 | 0 |

RUMMEL • KLEPPER and KAHL, LLP
ENGINEERS | CONSTRUCTION MANAGERS | PLANNERS | SCIENTISTS

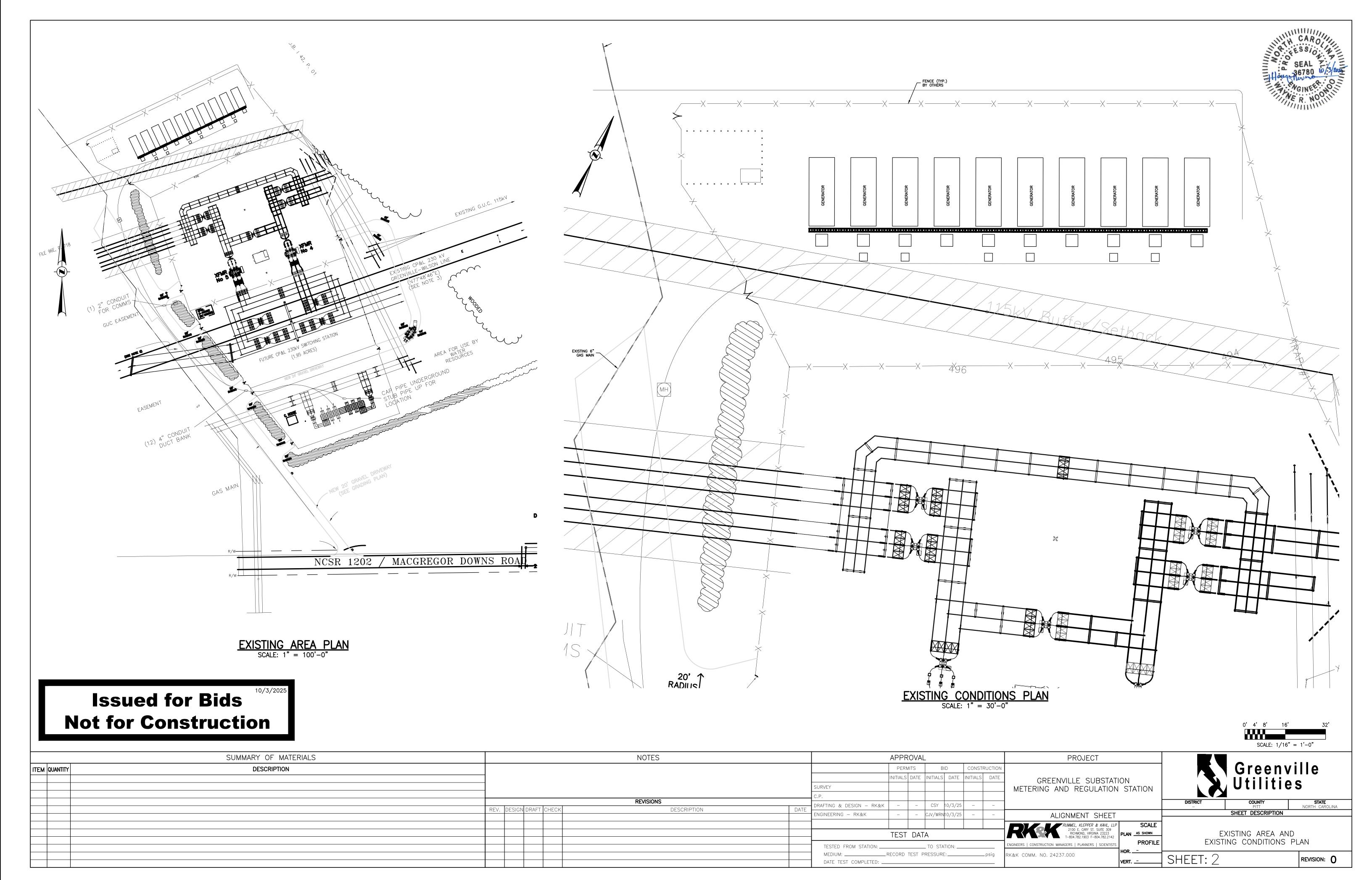
| SYMBOL | DESCRIPTION |
|---|--|
| <u></u> | <u> </u> |
| | CENTERLINE |
| | HYDRO |
| Θ | EXISTING FENCE |
| OO | EXISTING GUARD RAIL |
| | EXISTING EDGE-OF-PAVEMENT |
| | EXISTING DRIVEWAY/PATH |
| -G | EXISTING GAS TO REMAIN |
| | EXISTING UTILITY EASEMENT |
| | EXISTING PROPERTY LINE |
| | EXISTING RIGHT-OF-WAY (R/W) |
| | EXISTING SANITARY SEWER |
| | EXISTING STORM DRAINAGE |
| | EXISTING UNDERGROUND ELECTRIC LINE |
| | EXISTING UNDERGROUND TELEPHONE CABLE |
| ro ro | EXISTING UNDERGROUND FIBER OPTIC |
| | EXISTING WATER |
| | BORROW PIT |
| · · · · · | WETLAND BOUNDARY |
| | RIPARIAN BARRIER |
| · | AE FLOODWAY |
| | AE FLOODZONE |
| | PROPOSED TEMPORARY WORKSPACE |
| | PROPOSED UTILITY EASEMENT |
| x | PROPOSED FENCE |
| | PROPOSED GAS PIPE ABOVE GRADE (DOUBLE LINE) |
| | PROPOSED GAS PIPE BELOW GRADE (DOUBLE LINE) |
| NOTES: 1. ALL DIMENSIONS TO BE VERIFI | IED PRIOR TO FABRICATION AND INSTALLATION. |
| 2. ALL PIPING TO BE FABRICATED PROJECT SPECIFICATIONS. | & TESTED IN ACCORDANCE WITH 49 CFR 192 AND |
| 3. ALL PIPE WELDING TO BE PER SPECIFICATIONS. | RFORMED PER GUC WELD STANDARDS AND PROJECT |
| 4. ALL PIPING SHALL BE THOROURUST PRIOR TO ASSEMBLY. | JGHLY CLEANED OF MILL SCALE, WELD SLAG, & |
| 5. ALL PIPING SHALL BE VISUALL FABRICATION OF ASSEMBLY. | Y INSPECTED BY ENGINEER/OWNER PRIOR TO |
| | |
| | |

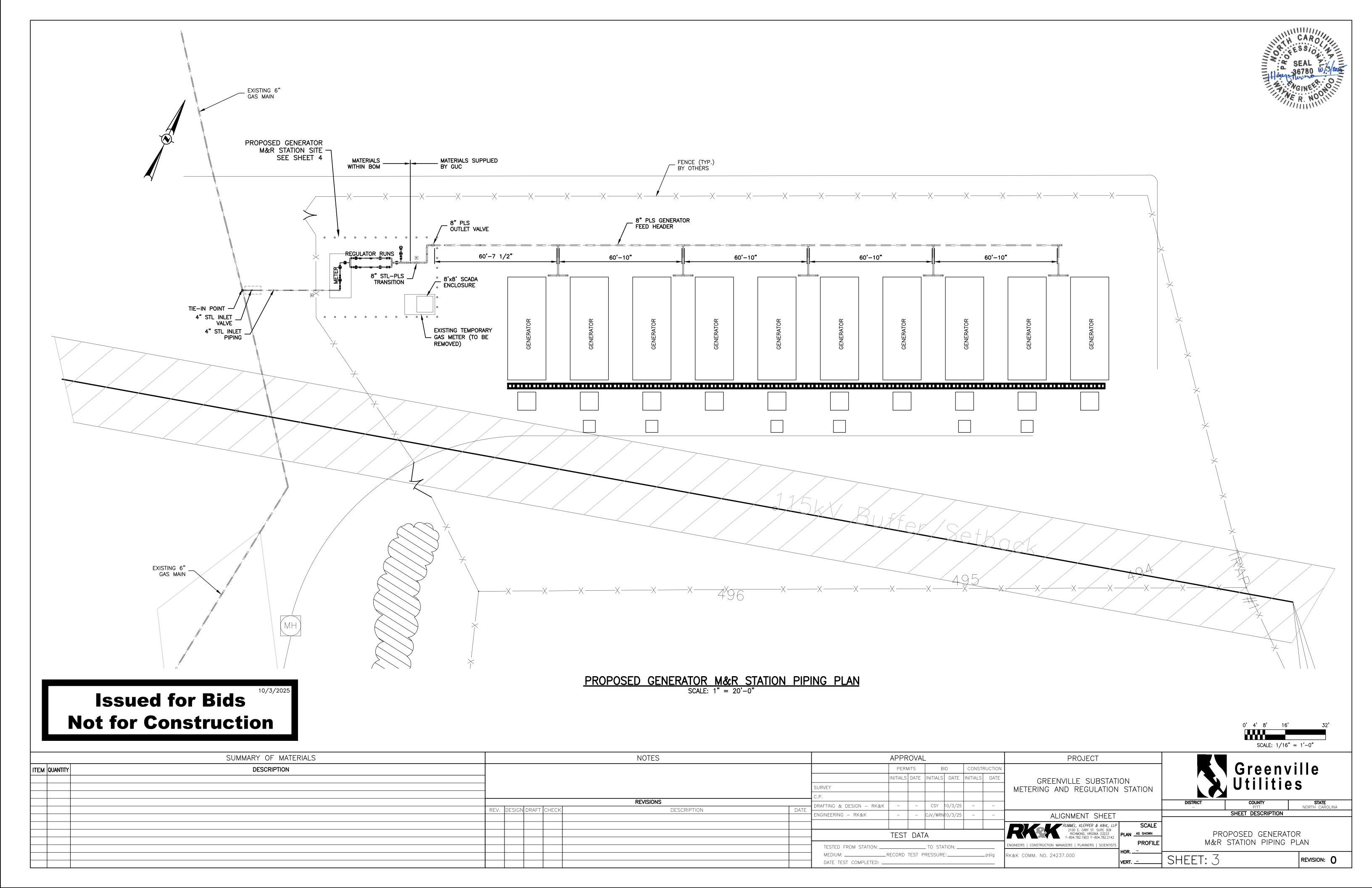
| DRAWING | LEGEND |
|----------|--|
| SYMBOL | DESCRIPTION |
| EX. | EXISTING |
| ST | STEEL |
| PE | POLYETHYLENE |
| PGS | PROPOSED GAS SERVICE |
| PROP. | PROPOSED |
| RCP | REINFORCED CONCRETE PIPE |
| STA | STATION |
| | INSULATING FLANGE LOCATION |
| 1 | PROPOSED ITEM NUMBER |
| ◆ | FLOW ARROW |
| | EARTH |
| | GRAVEL |
| | CONCRETE |
| 1 4 | <u>DETAIL IDENTIFICATION</u> SHEET NUMBER |
| A | SECTION IDENTIFICATION |

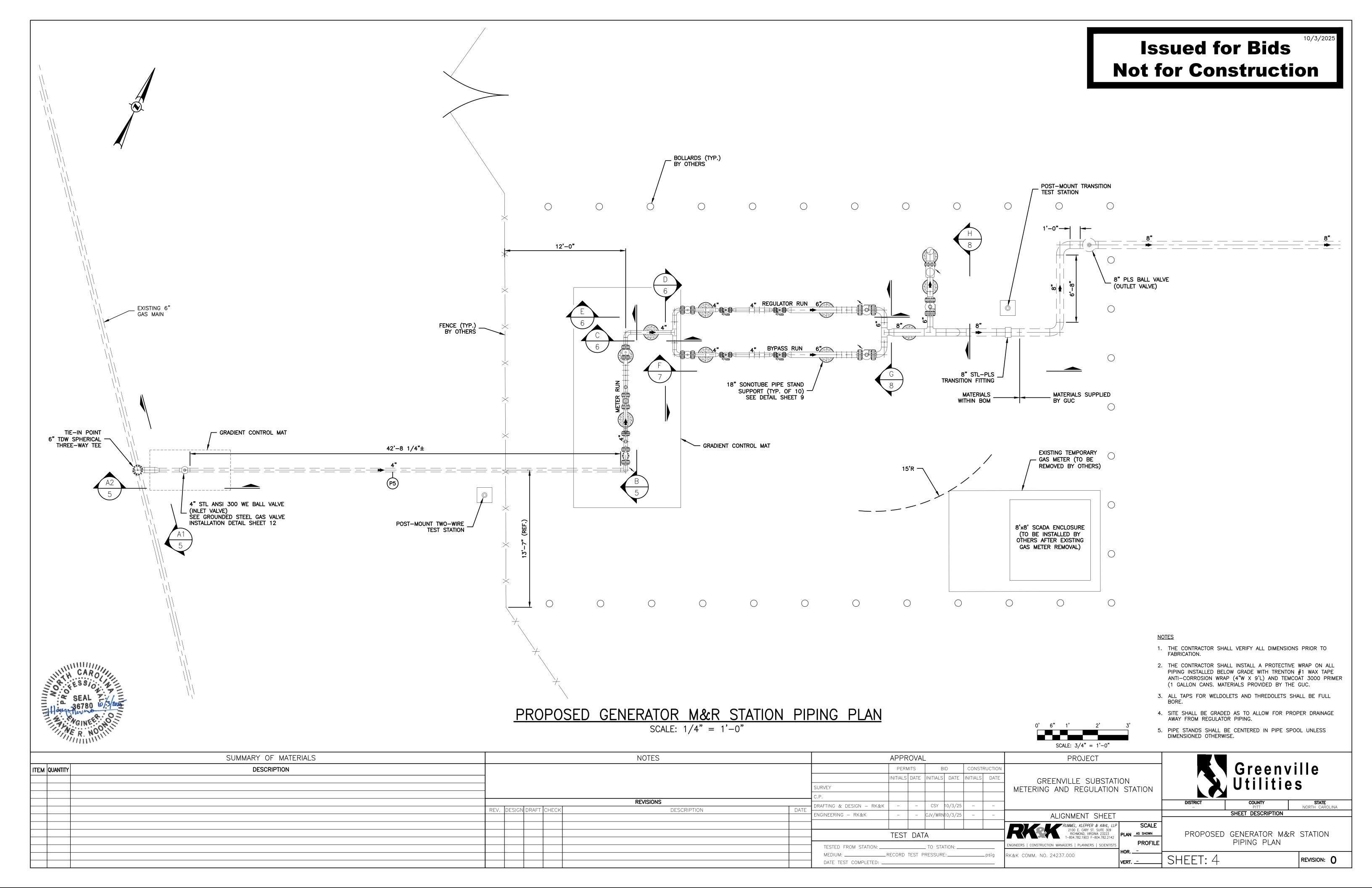


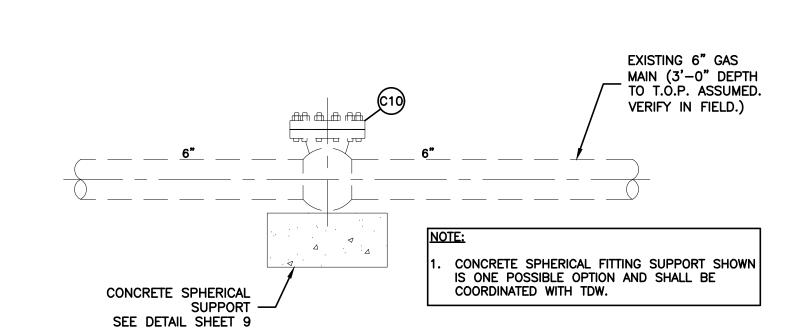
| A | Item | Quantity | Unit | Size | Description of Station Materials (Domestic Source) |
|--|------|-----------|----------|---------------|---|
| A 2 59 FA | | + | | | |
| No. 22 | | + | | | |
| As | | | | | |
| 2 | | + | | | |
| 10 | | | | | |
| 12 | 7.0 | | | _ | 1 pe rappie, Exact eaerig, erade B, eearineee e.e., aneda bear erad |
| 12 | B1 | 48 | EA | (6") ANSI 300 | Stud Bolts, All Thread, Teflon Coated, 3/4" Diameter x 5 1/4" Long, Grade B-7, ASTM A-194, w/2 A-194, Grade 2H Heavy Hex Nuts (12 bolts per connection) |
| Bit | | | | ` , | |
| Section Sect | | | | ` , | |
| PA | | + | | , | |
| Col. Fig. Fig. Fig. Fig. Sept. Col. Sept. Se | B5 | 40 | EA | 5/8" x 5 1/2" | |
| Col. Fig. Fig. Fig. Fig. Sept. Col. Sept. Se | | | | | |
| Col. | C1 | 3 | EA | 6" | Valve, Ball, Flanged End, ANSI 300, Cameron T-31 or equivalent, Above Grade, Painted, Lockable w/ Gearbox and Handwheel |
| 1986 Fig. 1976 1986 1987 1988 1987 1988 1987 1988 | C2 | 5 | EA | 4" | Valve, Ball, Flanged End, ANSI 300, Cameron T-31 or equivalent, Above Grade, Painted, Lockable 1/4 Turn w/ 2" Nut |
| Col. Col. Fig. Col. Art Southern Time Step. Filinged First A AND 300 Aprilla Dright Principle Microsophy Step 1 And 300 Aprilla Principle Principle Microsophy Step 1 And 300 Aprilla Principle Principle Microsophy Step 1 And 300 Aprilla Principle Princi | C3 | 1 | EA | 4" | Valve, Ball, Weld End, ANSI 300, Cameron T-31 or equivalent, Below Grade, Tarset Coated, Lockable 1/4 Turn w/ 2" Nut, w/ Lubrication Lines |
| Col. Col. Fig. Page | C4 | 28 | EA | 1/2" | Valve, Ball, Class 3000, FNPT X FNPT, Chem Oil Series 3000 WCB, Lockable |
| C7 | C5 | 1 | EA | 4" | Strainer, Tee Style, Flanged End, ANSI 300, Apollo Engineering Model TSF |
| CS | C6 | 4 | EA | 2" | Regulator, Pressure Reducing, Flanged End, ANSI 300, Fisher Type EZR |
| Col. 1 | C7 | 1 | EA | 4" | Meter, Flanged End, ANSI 300, American Meter, Turbine |
| C10 | C8 | 1 | EA | 4" | Straightening Vanes, Flanged, Apollo Engineering, Model No. 04F30-90-00 |
| Col. 1 | C9 | 1 | EA | 8" | Transition Fitting, STL-PLS, SDR 11, 0.322" min. wall, Medium Density PE 2708, ASTM D2513 & ASTM D2683 |
| File | C10 | 1 | EA | 6" | 300D Spherical 3-WAY Tee and SHORTPLUG w/ Guide Bars72 Design Factor, ANSI 300, TD Williamson 26-1535-0631-21 |
| Fig. 2 | C11 | 1 | EA | 6"x8" | Valve, Relief, ANSI 300 x ANSI 150, Flowsafe F7000 |
| Fig. 2 | | | | | |
| Fig. 6 | F1 | 3 | EA | 8" | Elbow, 90°, LR, Y-52, SCH 40, 0.322" w.t. |
| Feb. 1 | F2 | 2 | EA | 6" | Elbow, 90°, LR, Y-52, SCH 40, 0.280" w.t. |
| F6 | F3 | 6 | EA | 4" | Elbow, 90°, LR, Y-52, SCH 40, 0.237" w.t. |
| FF | F4 | 1 1 | EA | 6" | Tee, Weld End, Straight, Y-52, WT = 0.280" x 0.280" |
| F7 | F5 | 3 | | - | |
| FR | F6 | 1 | | | |
| F8 | F7 | 1 | EA | | Reducer, Weld End, Concentric, Y-52, WT = 0.280" x 0.237" |
| Fig. 7 | | | | | |
| Fit1 | | + | | | |
| F12 | | | | | |
| F13 | | | | - | |
| F14 | | | | | |
| F15 | | <u>'</u> | | | |
| F16 | | • | | - | |
| F17 | | · · | | - | |
| G1 3 EA 6" Flange Insulation Kit, ANSI 300. Type E, Linebacker, Double Washer Set, wFull Length Phonolic Sleeves G2 1 EA 4" Flange Insulation Kit, ANSI 300. Type E, Linebacker, Double Washer Set, wFull Length Phonolic Sleeves G3 2 EA 6" Gasket, Spiral Wound, Floxitallic, ANSI 300 G4 14 EA 4" Gasket, Spiral Wound, Floxitallic, ANSI 300 G5 8 EA 2" Gasket, Spiral Wound, Floxitallic, ANSI 300 G6 1 EA 8" Gasket, Spiral Wound, Floxitallic, ANSI 300 S1 EA 6" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 6" P.S., D-3'-10" (*) S2 3 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-3'-10" (*) S3 1 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-3'-10" (*) S4 1 EA 4" Double Pipe Support, EZ-Line, Model DFS-02, 2-4", DI = 1-15", DZ = 2-5" (*) w 204-F Upper Cradlet/U-Bolt Clamp S5 1 EA 8" Pipe Support, EZ-Line, Model DFS-02, 2-4", DI = 1-15", DZ = 2-5" (*) w 204-F Upper Cradlet/U-Bolt Clamp Pipe Support, EZ-Line, Model DFS-02, 2-4", DI = 1-15", DZ = 2-5" (*) w 204-F Upper Cradlet/U-Bolt Clamp S5 1 EA 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P2 20 LF 6" Steel Pipe, 0.223" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 10 LF 6" Steel Pipe, 0.23" w.t., X-52, Coated, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.23" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.23" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Reqd, NA NA NA Rock Shield X2 4 EA 8'4" Gradient Control Mat | | ' | | | |
| G2 | F17 | 2 | EA | 2" | Steel Cap, Threaded |
| G2 | C1 | 1 | | G!! | Flance Insulation Vit ANSI 200 Type F. Linchesker Deuble Weeker Set W/Full Length Phonelic Clasues |
| G3 2 EA 6" Gasket, Spiral Wound, Flexitallic, ANS 300 G4 14 EA 4" Gasket, Spiral Wound, Flexitallic, ANS 300 G5 8 EA 2" Gasket, Spiral Wound, Flexitallic, ANS 300 G6 1 EA 8" Gasket, Spiral Wound, Flexitallic, ANS 300 S1 4 EA 6" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 6"P.S., D-3'-10" (*) S2 3 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4"P.S., D-3'-10" (*) S3 1 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4"P.S., D-3'-10" (*) S4 1 EA 4" Double Pipe Support, EZ-Line, Model DPS-02, 4"Xa", D1 = 1'.5", D2 = 2'.5" (*) w/ 204-F Upper Gradle/U-Bott Clamp S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8"P.S., D-3'-10" (*) P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P3 20 LF 8" Steel Pipe, 0.232" w.t., X-52, Coated, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.220" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA NA Rock Shield X1 As Req'd. NA NA NA Rock Shield X2 4 EA 8'x 4' Gradient Control Mat | | | | | |
| G4 14 EA 4" Gasket, Spiral Wound, Flexitallic, ANSI 300 G5 8 EA 2" Gasket, Spiral Wound, Flexitallic, ANSI 300 G6 1 EA 8" Gasket, Spiral Wound, Flexitallic, ANSI 300 Saket, Spiral Wound, Flexitallic, ANSI 300 Gasket, Spiral Wound, Flexitallic, ANSI 300 Saket, Spiral Wound, Flexitall | | - ' | | | |
| G5 8 EA 2" Gasket, Spiral Wound, Flexitallic, ANSI 300 G6 1 EA 8" Gasket, Spiral Wound, Flexitallic, ANSI 150 S1 4 EA 6" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 6" P.S., D-3'-10" (*) S2 3 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-5" (*) S3 1 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-5" (*) S4 1 EA 4" Double Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-5" (*) S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8" P.S., D-3'-10" (*) S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8" P.S., D-3'-10" (*) S1 E4 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.322" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.280" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.230" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.237" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.237" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.237" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.237" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" Steel Pipe, 0.237" w.t., X-52, Casted, ERW, BE, Spec API-5L S1 E4 8" X-4" Gradient Control Mat | | | | | |
| G6 1 EA 8" Gasket, Spiral Wound, Flexitallic, ANSI 150 S1 4 EA 6" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 6" P.S., D-3'-10" (*) S2 3 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-3'-10" (*) S3 1 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-5" (*) S4 1 EA 4" Double Pipe Support, EZ-Line, Model DPS-02, 4"X4", D1 = 1'-5", D2 = 2'-5" (*) w/ 204-F Upper Cradle/U-Bolt Clamp S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8" P.S., D-3'-10" (*) P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Reqd, NA NA NA Rock Shield X2 4 EA 8' X-4' Gradient Control Mat | | | | • | |
| S1 | | 1 | | | |
| S2 3 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-3'-10" (*) S3 1 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-5" (*) S4 1 EA 4" Double Pipe Support, EZ-Line, Model DPS-02, 4"X4", D1 = 1'-5", D2 = 2'-5" (*) w/ 204-F Upper Cradle/U-Bolt Clamp S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8" P.S., D-3'-10" (*) P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' | | 1 | <u></u> | | |
| S2 3 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-3'-10" (*) S3 1 EA 4" Pipe Support, EZ-Line, Model 204, Figure F w/ Neoprene Liner, Part No. 204-F, 4" P.S., D-1'-5" (*) S4 1 EA 4" Double Pipe Support, EZ-Line, Model DPS-02, 4"X4", D1 = 1'-5", D2 = 2'-5" (*) w/ 204-F Upper Cradle/U-Bolt Clamp S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8" P.S., D-3'-10" (*) P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' | S1 | 4 | EA | 6" | Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F. 6" P.S., D-3'-10" (*) |
| S3 | | | | | |
| S4 1 EA 4" Double Pipe Support, EZ-Line, Model DPS-02, 4"X4", D1 = 1'-5", D2 = 2'-5" (*) w/ 204-F Upper Cradle/U-Bolt Clamp S5 1 EA 8" Pipe Support, EZ-Line, Model 508, Figure F w/ Neoprene Liner, Part No. 508-F, 8" P.S., D-3'-10" (*) P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8'x 4' Gradient Control Mat | | | | | |
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| P1 10 LF 8" Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8'x 4' Gradient Control Mat | | • | | • | |
| P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | | | <u> </u> | - | |
| P2 20 LF 8" Steel Pipe, 0.322" w.t., X-52, Coated, ERW, BE, Spec API-5L P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | P1 | 10 | LF | 8" | Steel Pipe, 0.322" w.t., X-52, Bare, ERW, BE, Spec API-5L |
| P3 20 LF 6" Steel Pipe, 0.280" w.t., X-52, Bare, ERW, BE, Spec API-5L P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | | | LF | | |
| P4 10 LF 6" Steel Pipe, 0.280" w.t., X-52, Coated, ERW, BE, Spec API-5L P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | | + | | | |
| P5 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Bare, ERW, BE, Spec API-5L P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | P4 | 10 | LF | 6" | |
| P6 60 LF 4" Steel Pipe, 0.237" w.t., X-52, Coated, ERW, BE, Spec API-5L X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | P5 | 60 | LF | | |
| X1 As Req'd. NA NA Rock Shield X2 4 EA 8' x 4' Gradient Control Mat | P6 | 60 | LF | 4" | |
| X2 4 EA 8' x 4' Gradient Control Mat | | | | | |
| | X1 | As Req'd. | NA | NA | Rock Shield |
| *BASE PLATE OF PIPE STAND SHALL HAVE $\frac{3}{4}$ "x1 $\frac{1}{2}$ " SLOTTED HOLES TO ACCOMMODATE $\frac{5}{8}$ " BOLTS. | X2 | 4 | EA | 8' x 4' | Gradient Control Mat |
| *BASE PLATE OF PIPE STAND SHALL HAVE 3/4"x11/2" SLOTTED HOLES TO ACCOMMODATE 5/8" BOLTS. | | | | | |
| | | | | | *BASE PLATE OF PIPE STAND SHALL HAVE $rac{3}{4}$ "x1 $rac{1}{2}$ " SLOTTED HOLES TO ACCOMMODATE $rac{5}{8}$ " BOLTS. |

| | SUMMARY OF MATERIALS | | NOTES | | APPROVAL | | PROJECT | |
|---------------|----------------------|-------------------------|-----------|----------|--|---------------------------------------|--|--|
| ITEM QUANTITY | DESCRIPTION | | | | PERMITS INITIALS DATE INITIALS SURVEY C. P. | BID CONSTRUCTION S DATE INITIALS DATE | GREENVILLE SUBSTATION METERING AND REGULATION STATION | Greenville Utilities |
| | | | REVISIONS | | DRAFTING & DESIGN - RK&K - CSY | 10/3/25 – – | - | DISTRICT COUNTY STATE PITT NORTH CAROLINA |
| | | REV. DESIGN DRAFT CHECK | DESCRIPT | ION DATE | ENGINEERING - RK&K CJV/WR | N10/3/25 | ALIGNMENT SHEET | SHEET DESCRIPTION |
| | | | | | | | RUMMEL, KLEPPER & KAHL, LLP 2100 E. CARY ST. SUITE 309 | BILL OF MATERIALS, |
| | | | | | TEST DATA | | RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 | BILL OF MATERIALS, DRAWING LEGEND, E AND GENERAL NOTES |
| | | | | | TESTED FROM STATION:TO ST | | ENGINEERS CONSTRUCTION MANAGERS PLANNERS SCIENTISTS PROFIL | E AND GENERAL NOTES |
| | | | | | MEDIUM:RECORD TEST PRESSUR DATE TEST COMPLETED: | RE:psig | RK&K COMM. NO. 24237.000 VERT | SHEET: 1 REVISION: 0 |



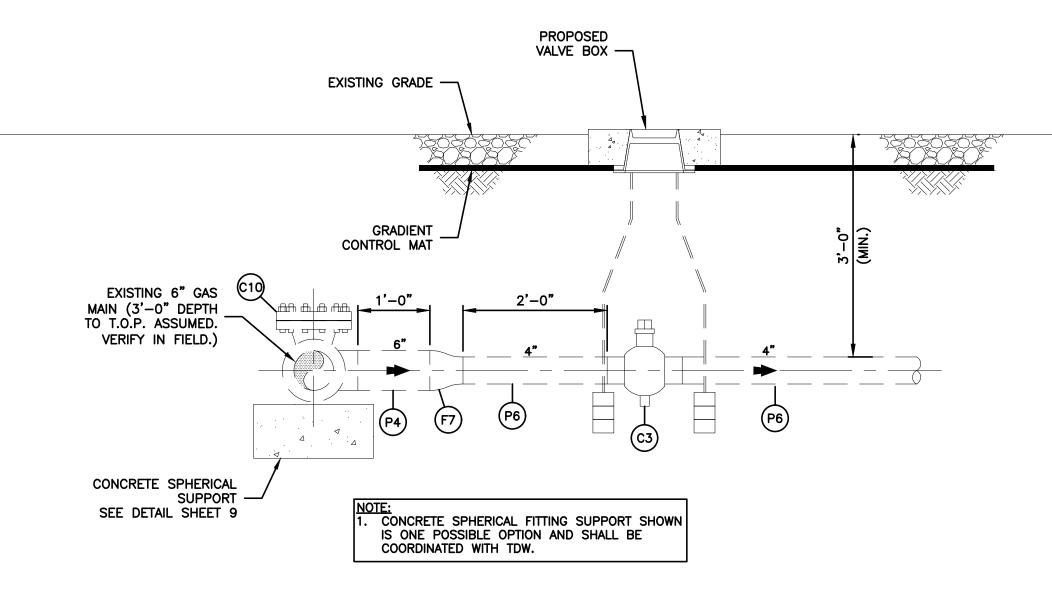




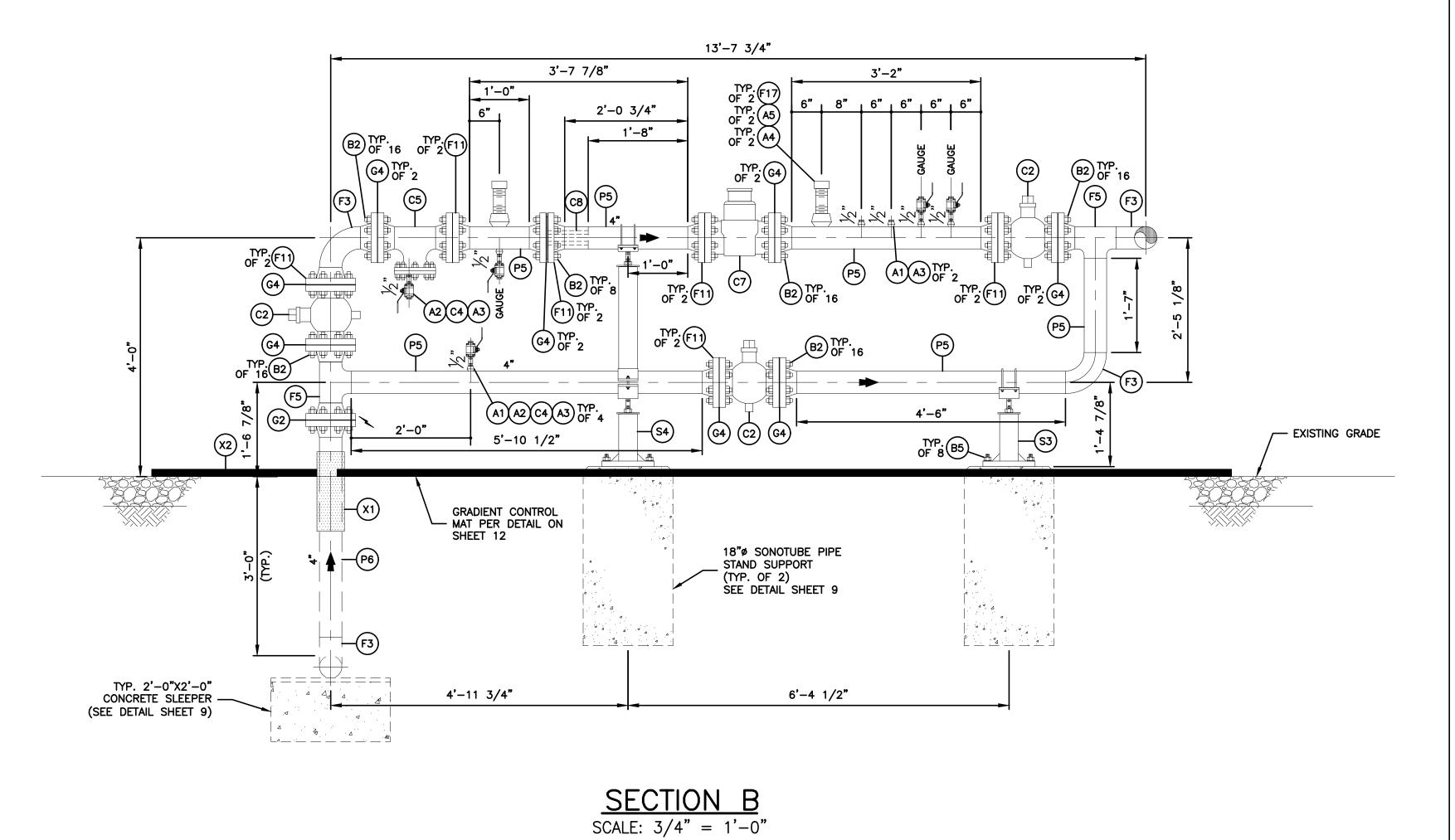


EXISTING GRADE -

SECTION A1 SCALE: 3/4" = 1'-0"



 $\frac{\text{SECTION A2}}{\text{SCALE: } 3/4" = 1'-0"}$



<u>NOTES</u>

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO
- 2. THE CONTRACTOR SHALL INSTALL A PROTECTIVE WRAP ON ALL PIPING INSTALLED BELOW GRADE WITH TRENTON #1 WAX TAPE ANTI-CORROSION WRAP (4"W X 9"L) AND TEMCOAT 3000 PRIMER (1 GALLON CANS. MATERIALS PROVIDED BY THE GUC.
- 3. ALL TAPS FOR WELDOLETS AND THREDOLETS SHALL BE FULL
- 4. SITE SHALL BE GRADED AS TO ALLOW FOR PROPER DRAINAGE AWAY FROM REGULATOR PIPING.
- 5. PIPE STANDS SHALL BE CENTERED IN PIPE SPOOL UNLESS DIMENSIONED OTHERWISE.



X REFER TO SHEET 1 FOR BILL OF MATERIALS

RK&K COMM. NO. 24237.000

SUMMARY OF MATERIALS

NOTES

APPROVAL

DESCRIPTION

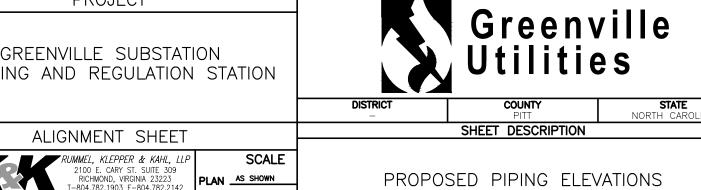
PERMITS BID CONSTRUCTION

INITIALS DATE INITIALS DATE INITIALS DATE
SURVEY

SURVEY

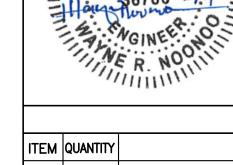
METERING AND REGULATION STATION

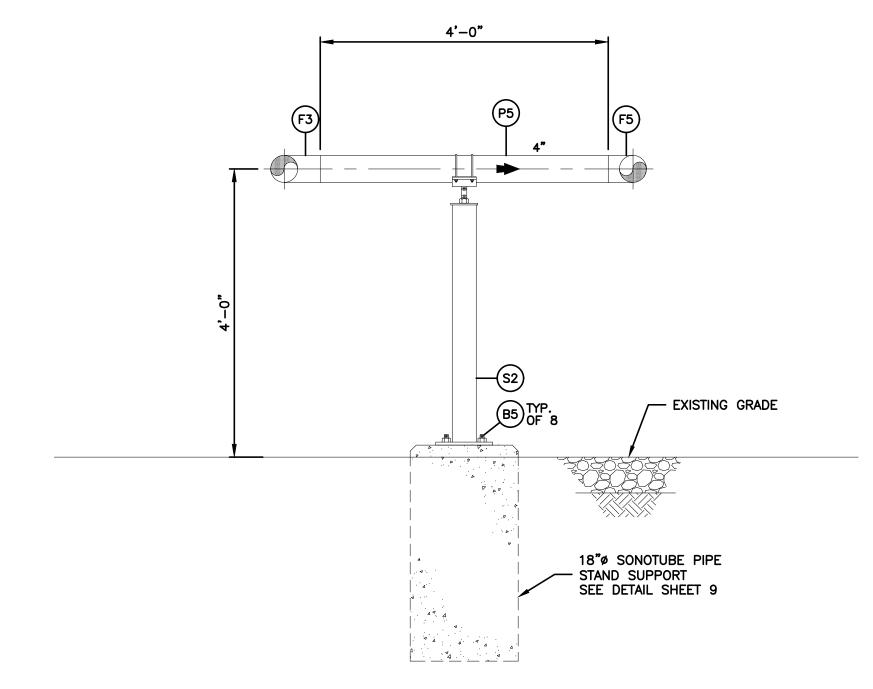
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| - | | | EV. DESI | N DRAFT CHECK | | DESCRIPTION | DATE | ENGINEERING - RK&K | | | N10/3/25 | + |
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| | | | | | | | <u> </u> | | TEST DA | .TA | | |
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| | | | | | | | | MEDIUM:F DATE TEST COMPLETED: | RECORD TEST I | PKESSUK | XE: | psig |



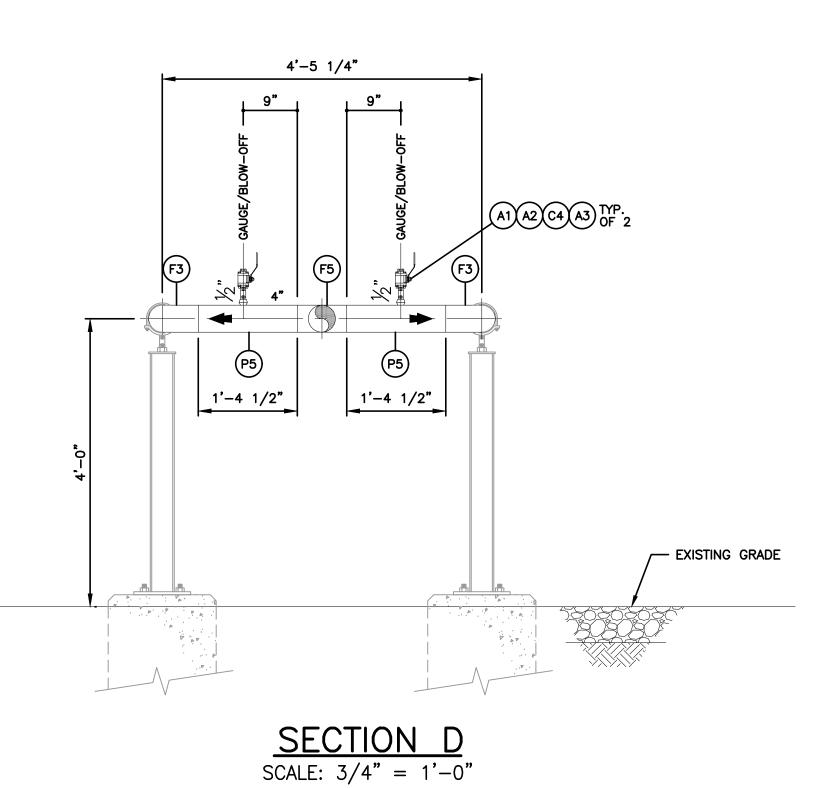
ROFILE CLICET. 5

SHEET: 5 REVISION: 0





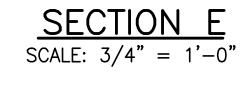
SECTION C SCALE: 3/4" = 1'-0"



SUMMARY OF MATERIALS

DESCRIPTION

TITEM QUANTITY



20'-9 3/8"

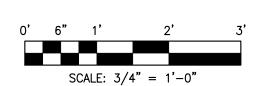
3'-4"

SEE REGULATOR TUBING DIAGRAM SHEET 7

18"ø SONOTUBE PIPE STAND SUPPORT (TYP. OF 2) SEE DETAIL SHEET 9

- EXISTING GRADE

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
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INITIALS DATE INITIALS DATE INITIALS DATE

BID CONSTRUCTION

APPROVAL

X REFER TO SHEET 1 FOR BILL OF MATERIALS

6'-6"

TYP: (A3) (C4) (A2) (A1)

6" | 6" | 6" | 6"

4'-6"

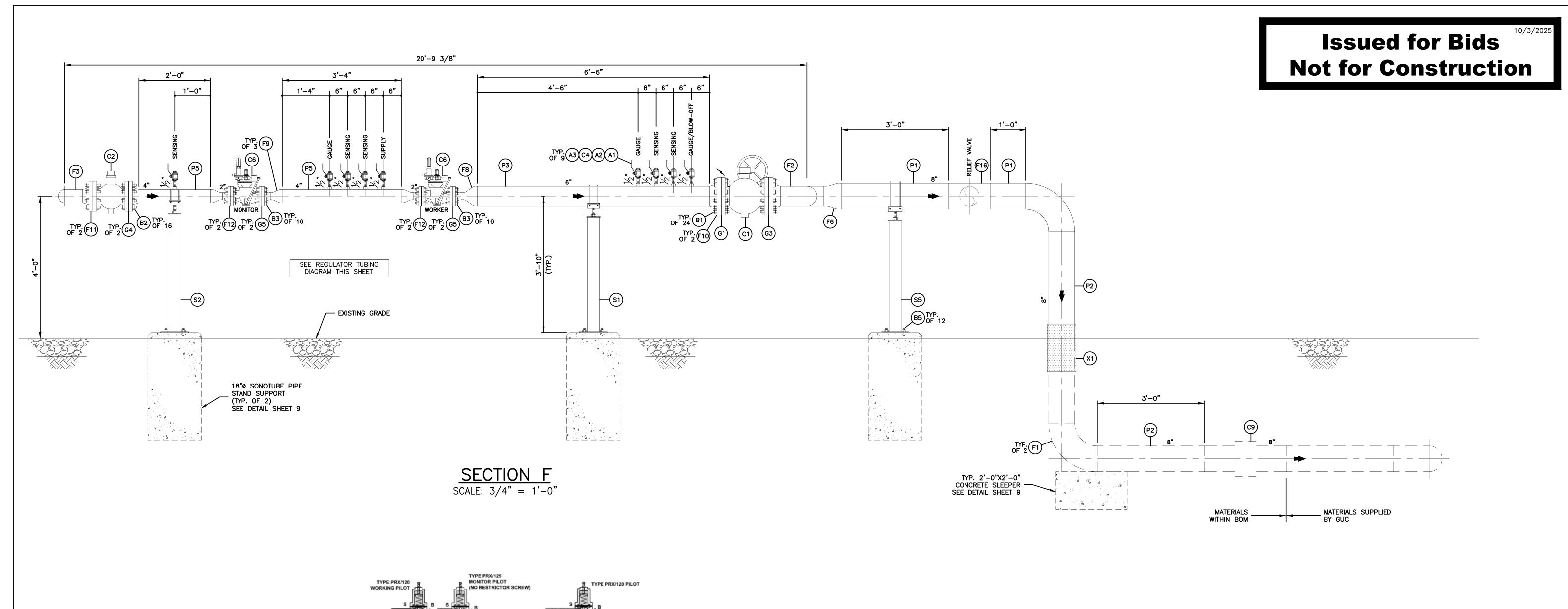
PROJECT GREENVILLE SUBSTATION

METERING AND REGULATION STATION SHEET DESCRIPTION ALIGNMENT SHEET

REVISIONS DESCRIPTION - CJV/WRN10/3/25 NGINEERING - RK&K PROPOSED PIPING ELEVATIONS TEST DATA TESTED FROM STATION: _____ MEDIUM: _____RECORD TEST PRESSURE: ____ RK&K COMM. NO. 24237.000 SHEET: 6 REVISION: O DATE TEST COMPLETED: ____

NOTES

2'-0"



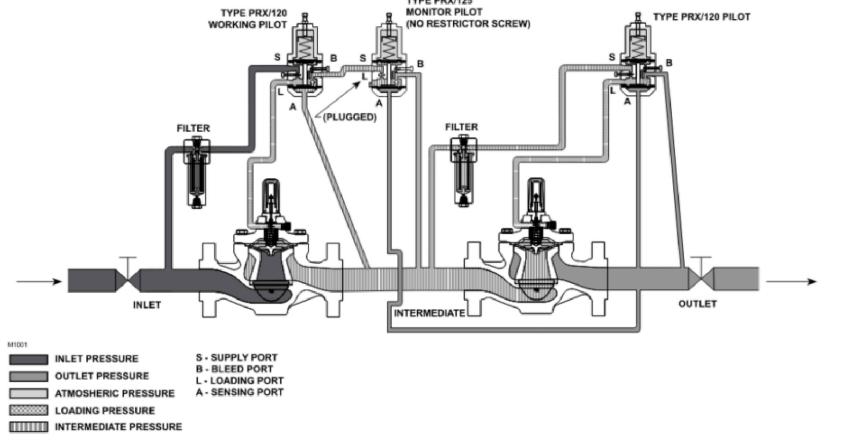
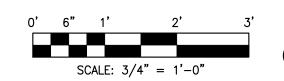


Figure 6. Type EZR-PRX-PRX Working Monitor Schematic

REGULATOR TUBING DIAGRAM

N.T.S. (INSTALLED BY GUC)

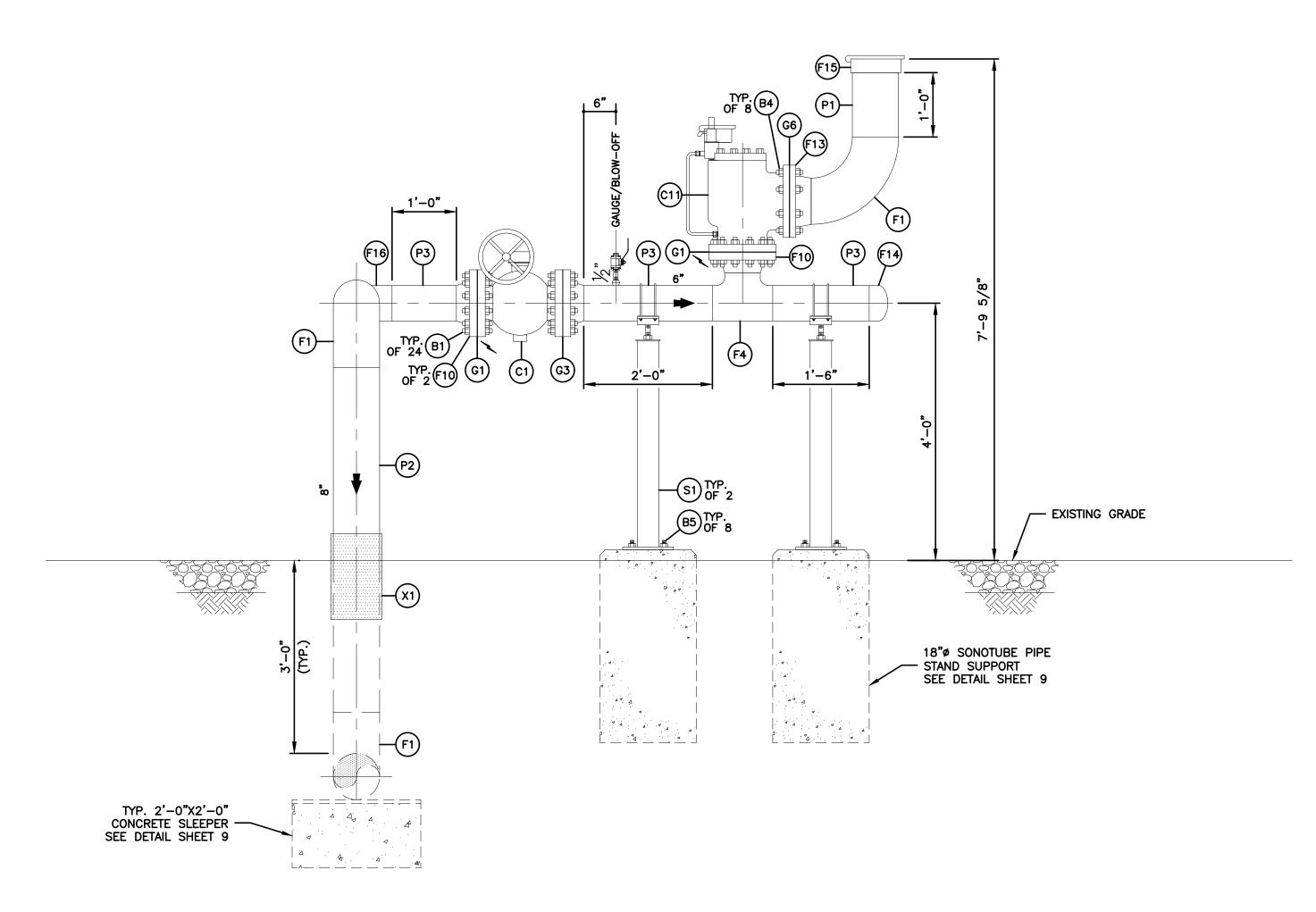


X REFER TO SHEET 1 FOR BILL OF MATERIALS

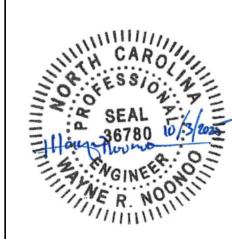
<u>NOTES</u>

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| | SUMMARY OF MATERIALS | | NOTES | APPROVAL | | PROJECT | |
|---------------|----------------------|-------------------------|------------------------|--|--|---|---|
| ITEM QUANTITY | DESCRIPTION | | | PERMITS INITIALS DATE INITIALS SURVEY | BID CONSTRUCTION S DATE INITIALS DATE | GREENVILLE SUBSTATION METERING AND REGULATION STATION | Greenville Utilities |
| | | REV. DESIGN DRAFT CHECK | REVISIONS DESCRIPTION | DATE ENGINEERING - RK&K - CSY ENGINEERING - RK&K - CJV/WR | 10/3/25 RN10/3/25 | ALIGNMENT SHEET | DISTRICT COUNTY STATE PITT NORTH CAROLINA SHEET DESCRIPTION |
| | | | | TEST DATA TESTED FROM STATION: | TATION: | RUMMEL, KLEPPER & KAHL, LLP 2100 E. CARY ST. SUITE 309 RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 ENGINEERS CONSTRUCTION MANAGERS PLANNERS SCIENTISTS RCALE AS SHOWN PROFILE | PROPOSED PIPING ELEVATIONS AND REGUALTOR SCHEMATIC |
| | | | | MEDIUM:RECORD TEST PRESSUR DATE TEST COMPLETED: | RE:psig | RK&K COMM. NO. 24237.000 VERT | SHEET: 7 REVISION: 0 |



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



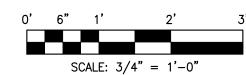
4'-5 1/4"

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

P3

A1 A2 C4 A3 TYP.

__ EXISTING GRADE

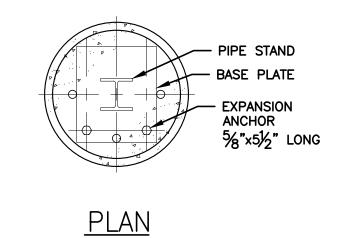


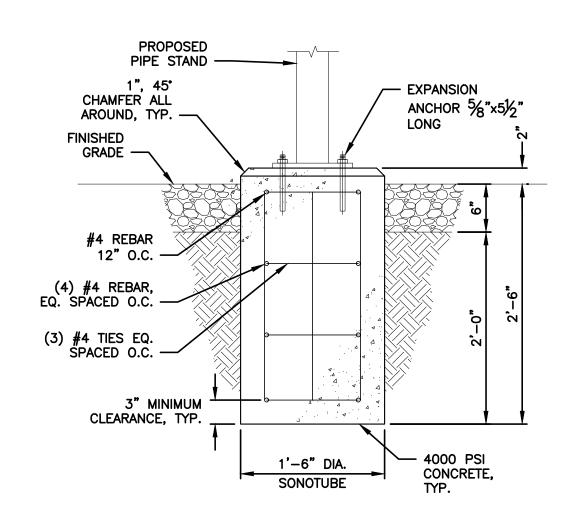
X REFER TO SHEET 1 FOR BILL OF MATERIALS

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| ALS | J. | DIMENSIONED | LINILINED | IIN FIFE | 3F OOL | UNLLSS |
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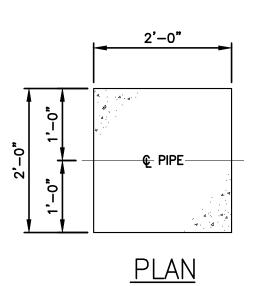
| | SUMMARY OF MATERIALS | | NOTES | APPRO\ | /AL | PROJECT | |
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| ITEM QUANTITY | DESCRIPTION | | | PERMITS INITIALS DA | BID CONSTRUCTION | <u> </u> | Greenville |
| | | | | SURVEY | TE WITHES BATE WITH LOS BATE | GREENVILLE SUBSTATION METERING AND REGULATION STATION | Utilities |
| | | DEV DECIMINATE OUTSOL | REVISIONS | C.P. DRAFTING & DESIGN — RK&K — | - CSY 10/3/25 | - | DISTRICT COUNTY STATE PITT NORTH CAROLINA |
| | | REV. DESIGN DRAFT CHECK | DESCRIPTION | ENGINEERING - RK&K - | - CJV/WRN10/3/25 | ALIGNMENT SHEET | SHEET DESCRIPTION |
| | | | | TEST D | ATA | RUMMEL, KLEPPER & KAHL, LLP SCALE 2100 E. CARY ST. SUITE 309 RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 PLAN AS SHOWN | PROPOSED PIPING ELEVATIONS |
| | | | | TESTED FROM STATION: | TO STATION: | ENGINEERS CONSTRUCTION MANAGERS PLANNERS SCIENTISTS PROFILE | |
| | | | | MEDIUM:RECORD TES DATE TEST COMPLETED: | T PRESSURE:psig | RK&K COMM. NO. 24237.000 | SHEET: 8 REVISION: 0 |





SONOTUBE PIPE STAND SUPPORT

SCALE: 1" = 1'-0"



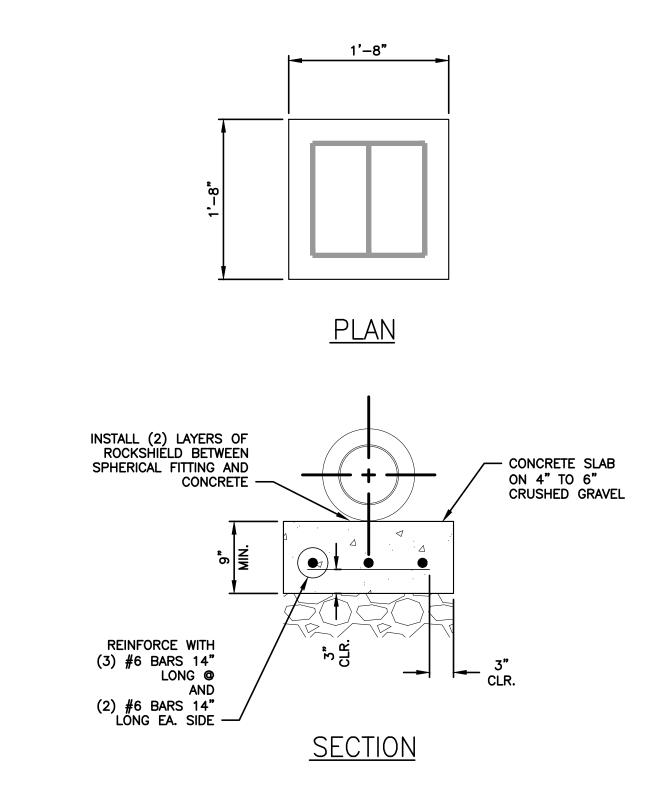
#4 REBAR x 2'-0" LONG (EQ. SPACED, TOP AND BOTTOM)

2" MINIMUM CLEARANCE, TYP. #4 REBAR x 2'-0" LONG (EQ. SPACED, TOP AND BOTTOM)

ELEVATION

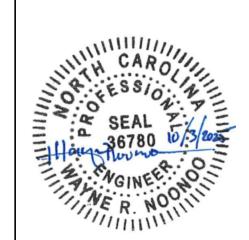
CONCRETE SLEEPER DETAIL

SCALE: 1" = 1'-0"

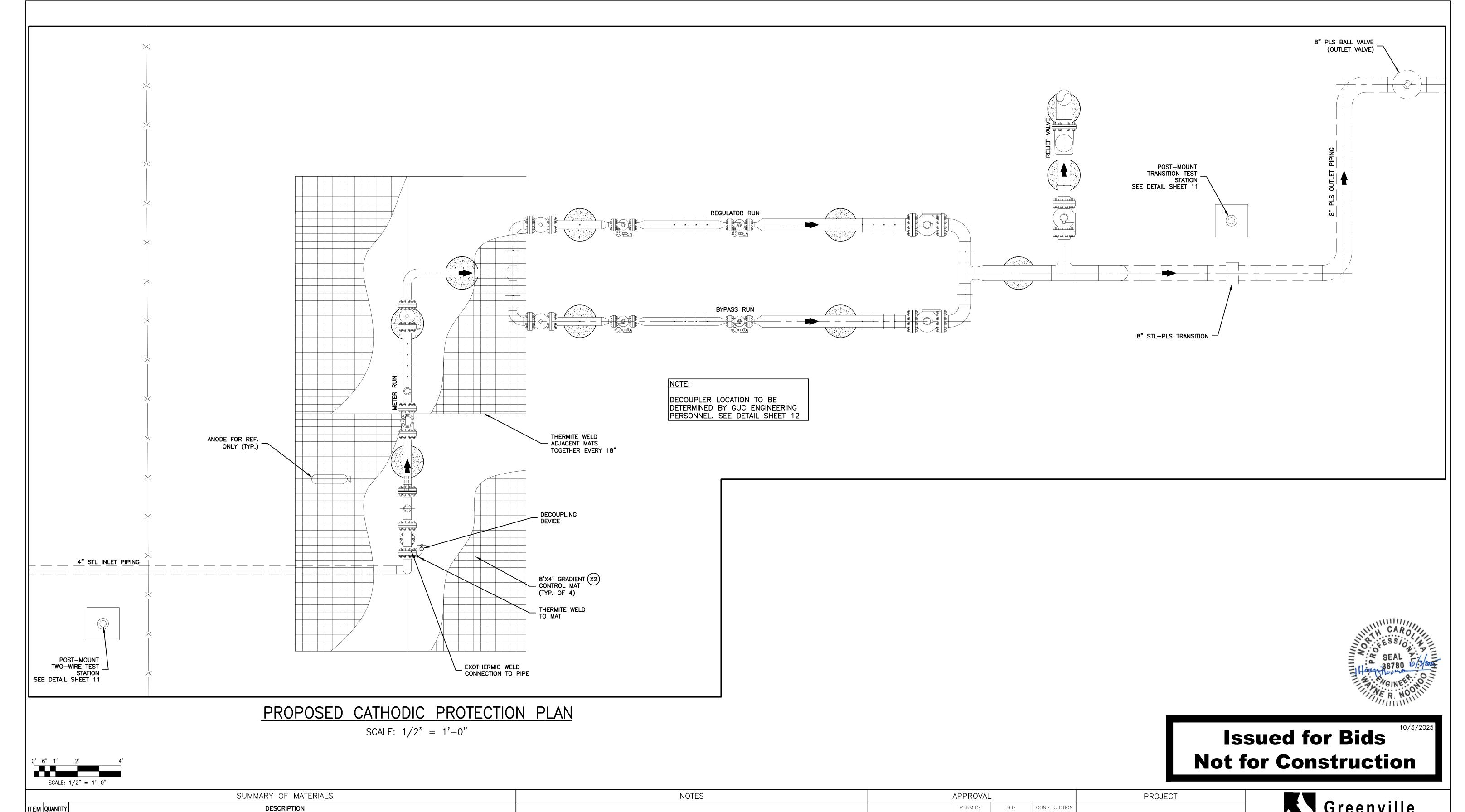


CONCRETE SPHERICAL FITTING SUPPORT

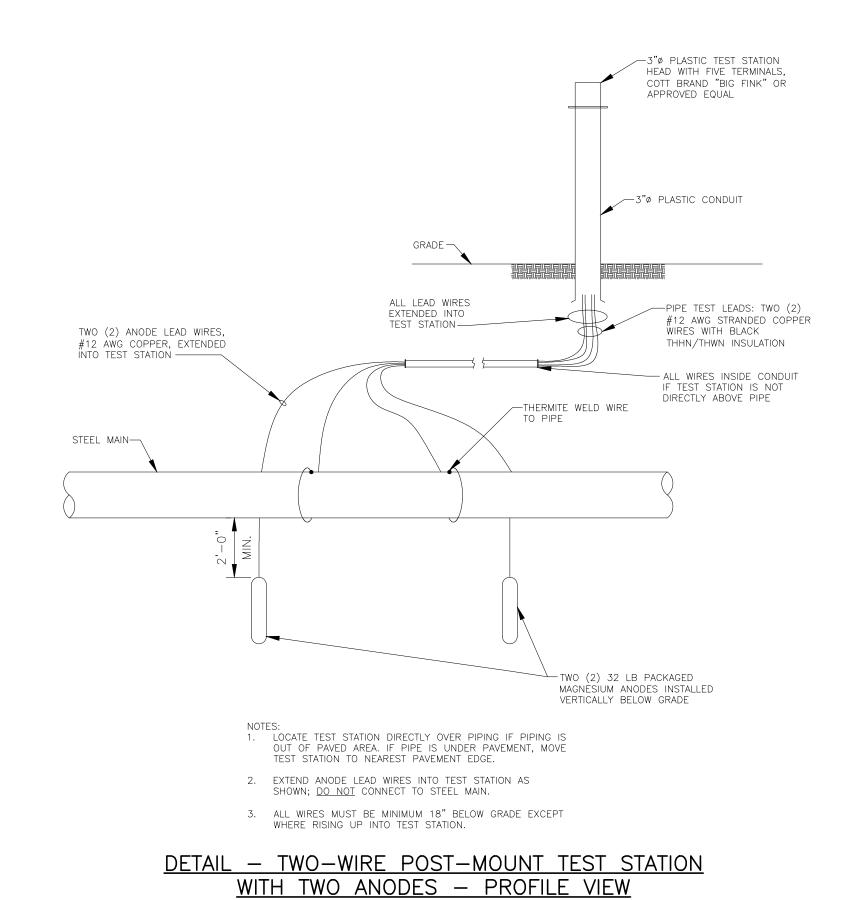
SCALE: 1" = 1'-0"

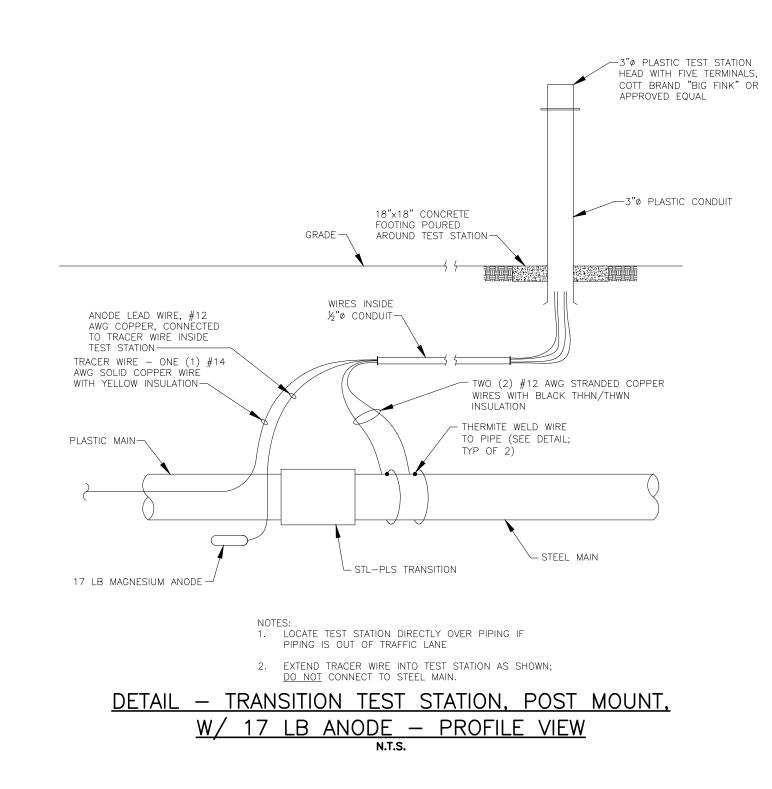


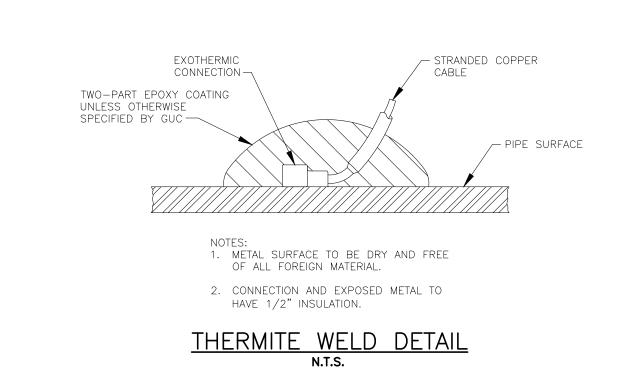
| | SUMMARY OF MATERIALS | | NOTES | | APPROVAL | - | PROJECT | |
|---------------|----------------------|-------------------------|-------------|------|------------------------------------|--|---|--------------------------------------|
| ITEM QUANTITY | DESCRIPTION | | | | PERMITS INITIALS DATE | BID CONSTRUCTION INITIALS DATE INITIALS DATE | GREENVILLE SUBSTATION | Greenville Utilities |
| | | | REVISIONS | | C.P. DRAFTING & DESIGN — RK&K — — | CSY 10/3/25 | METERING AND REGULATION STATIC | DISTRICT COUNTY STATE NORTH CAROLINA |
| | | REV. DESIGN DRAFT CHECK | DESCRIPTION | DATE | ENGINEERING — RK&K — — | CJV/WRN10/3/25 | ALIGNMENT SHEET | SHEET DESCRIPTION |
| | | | | | TEST DATA | A | 2100 E. CARY ST. SUITE 309 RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 | CONCRETE DETAILS OFILE |
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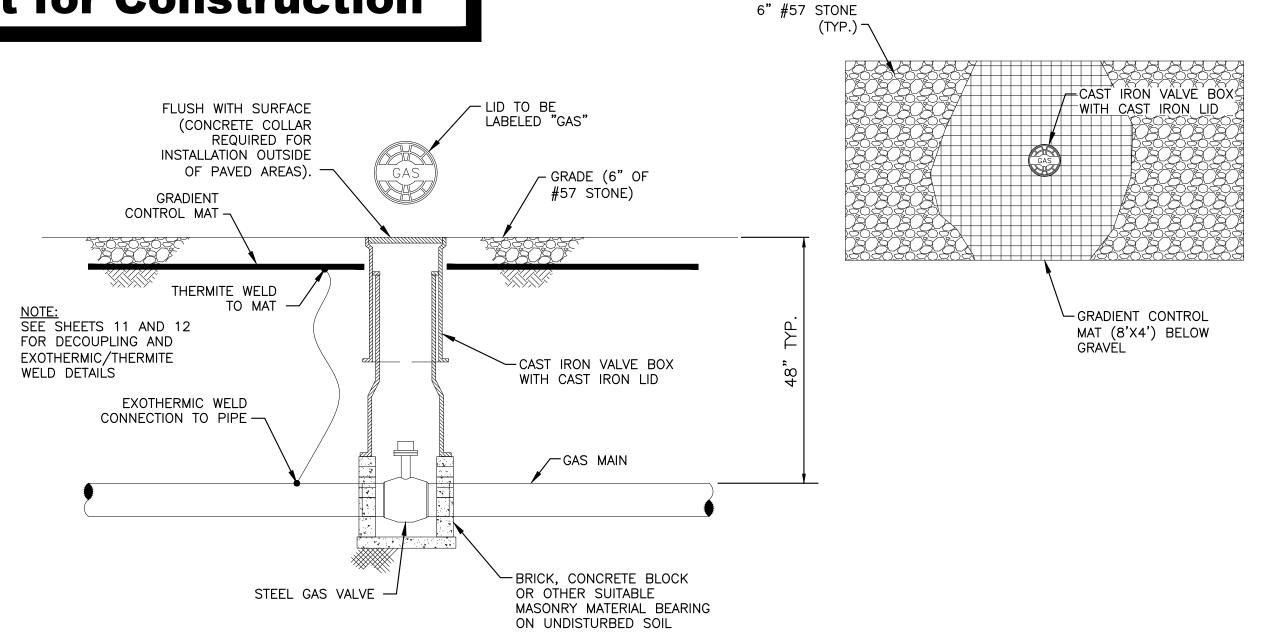




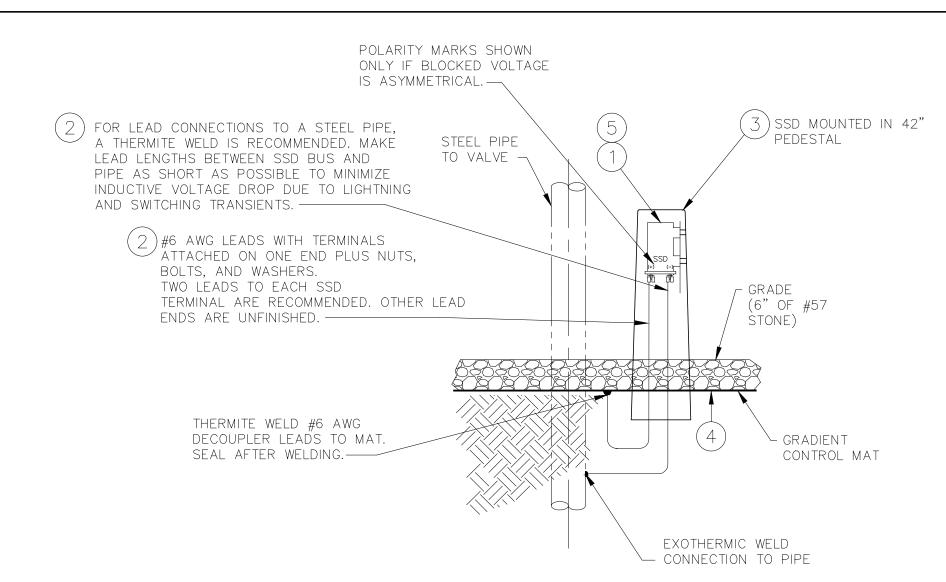




| | SUMMARY OF MATERIALS | NOTE | S | | APPROVAL | _ | | PROJECT | | |
|---------------|----------------------|--|---|------------------------------|--|------------------|-------------------------------|---|---------------|---|
| ITEM QUANTITY | DESCRIPTION | | | | PERMITS INITIALS DATE | BID INITIALS DAT | CONSTRUCTION TE INITIALS DATE | GREENVILLE SUBSTA | TION . | Greenville |
| | | | | SURVEY | SURVEY METERING AND REGULATION STATION | | N STATION | Utilities | | |
| | | REVISIONS REV. DESIGN DRAFT CHECK DESCRIPTION | | DATE DRAFTING & DESIGN — RK& | RK&K | CSY 10/3/ | ['] 25 – – | | | DISTRICT COUNTY STATE - PITT NORTH CAROLINA |
| | | | | ENGINEERING - RK&K | (| CJV/WRN10/3/ | /25 – – | ALIGNMENT SHEET | | SHEET DESCRIPTION |
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| | | | | MEDIUM: DATE TEST COMPL | ETED:RECORD TEST PR | KESSUKE: | psig | RK&K COMM. NO. 24237.000 | VERT | SHEET: 1 1 REVISION: 0 |

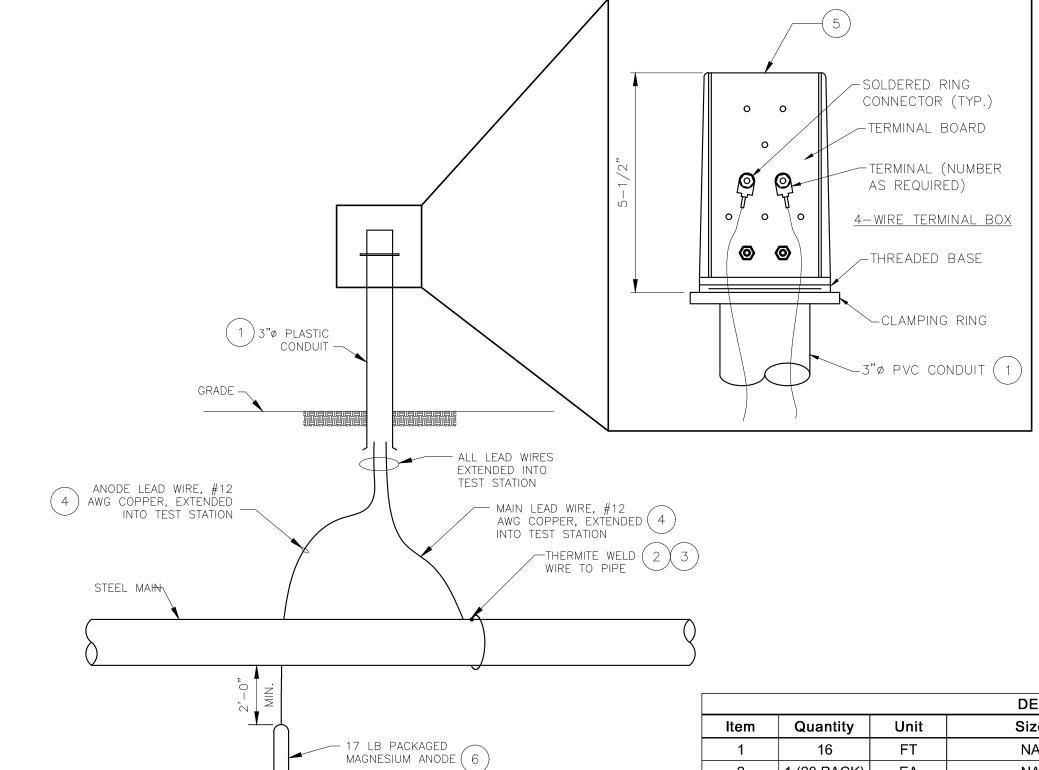


GROUNDED STEEL GAS VALVE INSTALLATION DETAIL
N.T.S.



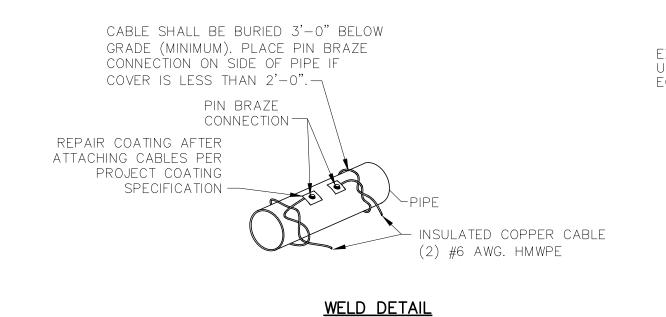
ABOVE GROUND APPURTENANCE DECOUPLER DETAIL WITH GRADIENT CONTROL MAT

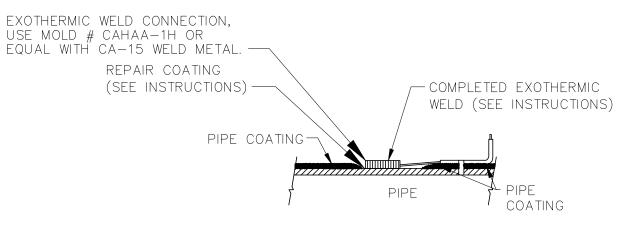
| Item | Quantity | Unit | Item | Description of Materials (Domestic Source) |
|------|----------|------|----------------------|---|
| 4 | 1 | Ε.Δ. | 000 0 | DEI Model # SSD-2/2-2.0-100-R Standard, Standard Terminal Arrangement, AC Fault Current Rating 2.0 kA (50/60 HZ) Blocking |
| 1 | 1 | EA | SSD Decoupler | Voltage - 2.0V/+2V, Lightning Current Rating 100 kA. May be Mounted in 42" Fiberglass Pedestal |
| 2 | 50 | FT | Decoupler Lead | #6 AWG HMWPE Cable Leads with compression terminals |
| 2 | 1 | EA | Fiberalese Dedectel | DEI, 42" Fibersglass Free Standing Pedestal, 3/16" Fiberglass Thickness, 14 MIL Thick UV Stabilized Gelcoat, or Approved |
| 3 | ' | EA | Fiberglass Pedestal | Equal |
| 4 | 4 | EA | Gradient Control Mat | DEI Model GMC 4-8 (4'X8'),3"X3" Grid Squares, 0.135 DIA Steel Wire (Or Owner Approved Equal) |
| 5 | 1 | EA | Isolation Switch | 50 AMP AC Dairyland Electric SW-50-SSD or Equal |



DETAIL 1 — POST-MOUNT TEST STATION WITH (1) 17LB ANODE — PROFILE VIEW

| DETAIL 1 STANDARD TEST STATION | | | | | | | | | | | |
|--------------------------------|-------------|------|------|--|--|--|--|--|--|--|--|
| Item | Quantity | Unit | Size | Description of Materials (Domestic Source) | | | | | | | |
| 1 | 16 | FT | NA | UV Resistant 3-Inch PVC Conduit | | | | | | | |
| 2 | 1 (20 PACK) | EA | NA | Thermite Weld Mold, Cadweld 15g Charge | | | | | | | |
| 3 | 6 | EA | NA | Thermite Weld Coating Repair, Royston Handy Cap IP | | | | | | | |
| 4 | 60 | FT | NA | #12 AWG Thin Insulated Station Solid Copper Wire (Black) | | | | | | | |
| 5 | 2 | EA | NA | Standard Test Station Cott Model: Cott-BFTS | | | | | | | |
| 6 | 1 | EA | NA | 17 LB Magnesium Anode | | | | | | | |





EXOTHERMIC WELD CONNECTION

INSTALLATION INSTRUCTIONS

1. REMOVE A MAXIMUM OF 1.57" X 1.57" OF COATING, WIRE, BRUSH CLEAN AND FILE BRIGHT.

2. STRIP CABLE INSULATION BARE 1" AND CLAMP.

3. USE THE CHARGE RECOMMENDED BY THE EXOTHERMIC WELD

4. PLACE METAL RETAINER DISK FLAT IN MOLD, <u>DUMP</u> (DO NOT POUR) POWDER ONTO DISK AND <u>CLOSE MOLD LID</u>. MAKE SURE ALL FINE STARTING POWDER IS IN THE MOLD. IF ANY CLINGS TO BOTTOM OF CARTRIDGE,

5. REPLACE EMPTY CARTRIDGE IN THE BOX, GREEN END UP TO KEEP REMAINING CARTRIDGES UPRIGHT.

6. LAY CABLE ON BRIGHT PIPE SURFACE USING SPRING LOADED CHAIN CLAMP TO HOLD CRUCIBLE TIGHT, REMOVE HAND COMPLETELY AWAY FROM TOOL.

SQUEEZE OUT INTO MOLD AND BREAK UP FINE.

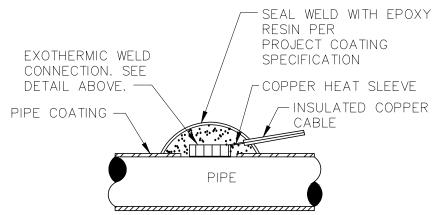
7. USING EYE PROTECTION, STAND ON OPPOSITE SIDE OF CRUCIBLE FROM TOUCH HOLE AND IGNITE POWDER WITH SPARK FROM FLINT GUN. USE CARE, POWDER WILL FLASH WHEN IGNITED.

8. WHEN WELD HAS SET, REMOVE MOLD AND TEST EXOTHERMIC WELD CONNECTION BY RAPPING SHARPLY WITH HAMMER. IN THE EVENT THERE IS ANY INDICATION THAT A COMPLETE WELD HAS NOT BEEN ACHIEVED, THE WELD SHALL BE REMOVED AND

9. CLEAN SLAG FROM WELD AND PIPE.

REPLACED WITH A PROPER WELD.

10. ALL COATING DAMAGE SHALL BE REPAIRED USING THE PATCHING PROCEDURE AND MATERIALS AS SPECIFIED IN PROJECT COATING SPECIFICATIONS.



CORROSION PROTECTION SEAL

SEAL 36780 10/3/2025

EXOTHERMIC WELD CONNECTION DETAILS

| SUMMARY OF MATERIALS | | | NOTES | | | | | APPROVAL | | | | | PROJECT | | | | |
|----------------------|-------------|----------|-------------------------|--|------|------------------|-----------------------------|-------------------------------------|----------|----------------|--------|--|---|----------|-------------------------|-----------------------------|--|
| TEM QUANTITY | DESCRIPTION | | | | | | SURVEY C.P. | PERMITS INITIALS DAT | | BID DATE | CONSTR | GREENVILLE SI | GREENVILLE SUBSTATION METERING AND REGULATION STATION | | Greenville Utilities | | |
| | | | | | -014 | REVISIONS | DRAFTING & DESIGN — | K&K | - CSY | CSY 10/3/25 | , | _ | | DISTRICT | COUNTY | STATE NORTH CAROLINA | |
| | | REV. DES | REV. DESIGN DRAFT CHECK | | .CK | DESCRIPTION DATE | ENGINEERING - RK&K | ₹К&К – – | - CJV/WI | CJV/WRN10/3/25 | | - ALIGNMENT | ALIGNMENT SHEET | | SHEET DESCRIPTION | | |
| | | | | | | | TESTED FROM STAT | TEST DATA ROM STATION: TO STATION: | | | | RUMMEL, KLEPPE 2100 E. CARY S RICHMOND, VIR T-804.782.1903 f ENGINEERS CONSTRUCTION MANAGERS PLANNER | RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 PLAN AS SHOWN PROFILE PROFILE | | | CATHODIC PROTECTION DETAILS | |
| | | | | | | | MEDIUM: DATE TEST COMPLE | RECORD TEST | T PRESSU | RE: | | psig RK&K COMM. NO. 24237.000 | HOR | SHEET: | 12 | REVISION: (| |