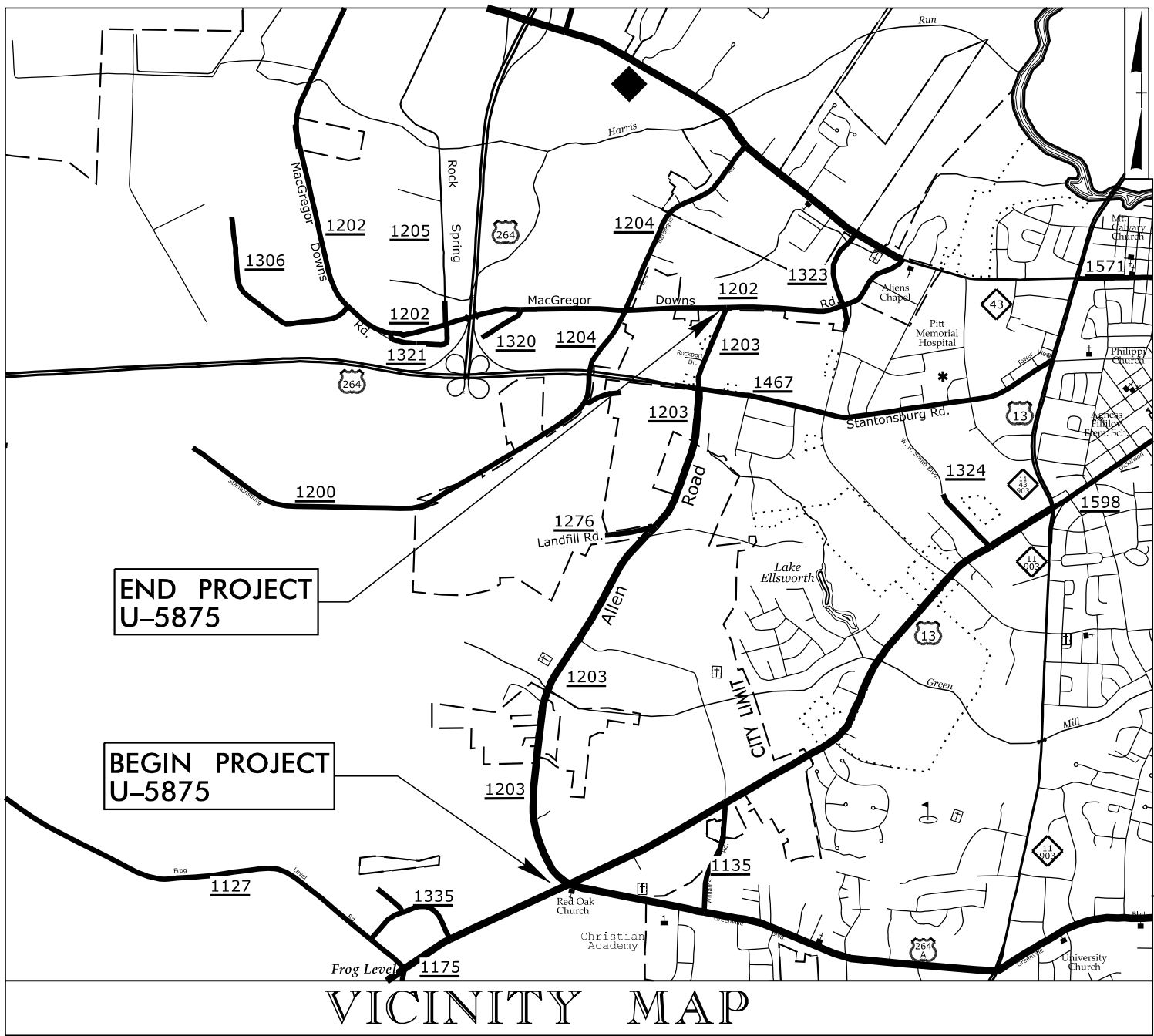


TRANSP-331616-01UTILITIES-U-5875-UTL-UC-1-L-W AND G.DGN

TIP PROJECT: U-5875

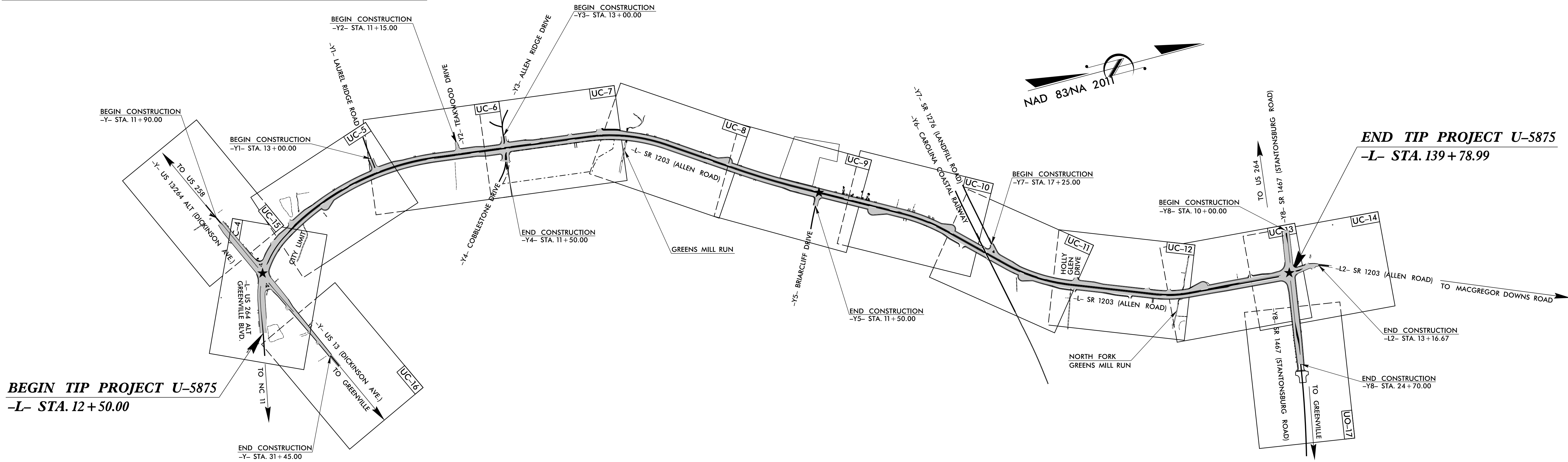


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
PITT COUNTY

LOCATION: SR 1203 (ALLEN ROAD) FROM US 13 (DICKINSON AVENUE EXTENSION)
TO SR 1467 (STANTONSBURG ROAD)

TYPE OF WORK: GAS, SANITARY SEWER AND WATER

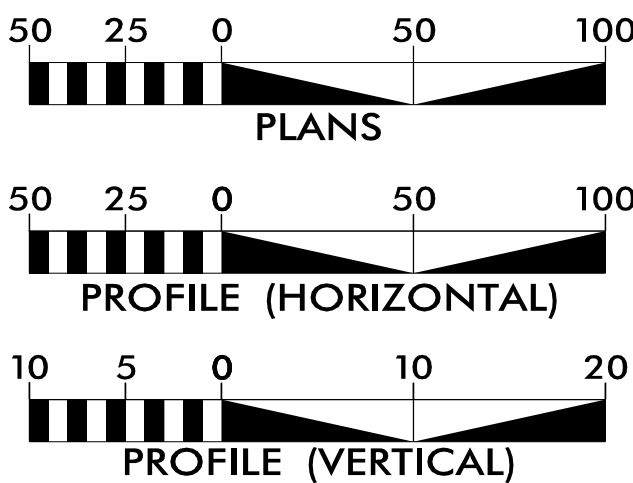


BEGIN TIP PROJECT U-5875
-L- STA. 12 + 50.00

END TIP PROJECT U-5875
-L- STA. 139 + 78.99

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

GRAPHIC SCALES



SEE SHEET UC-1A
FOR
INDEX OF SHEETS

PUBLIC UTILITY OWNERS
ON PROJECT

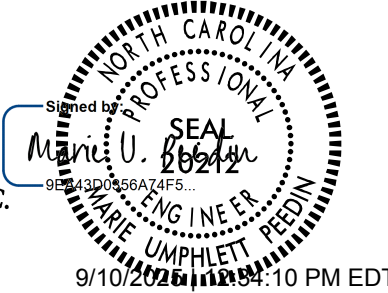
WATER & SEWER - GREENVILLE UTILITIES COMMISSION
NATURAL GAS - GREENVILLE UTILITIES COMMISSION
METHANE GAS - PITT LANDFILL GAS, LLC

PREPARED IN THE OFFICE OF:



JOHNSON, MIRIRAN, & THOMPSON, INC.

3508 Trent Road, Unit A
New Bern, NC 28562
(252) 631-5115



Kyle Compton, P.E. PROJECT MANAGER
Marie Peedin, P.E. UTILITY PROJECT ENGINEER
James Montgomery PROJECT UTILITY COORDINATOR



DIVISION OF HIGHWAYS
DIVISION 2
2815 Rouse Road Extension
Kinston, NC 28504

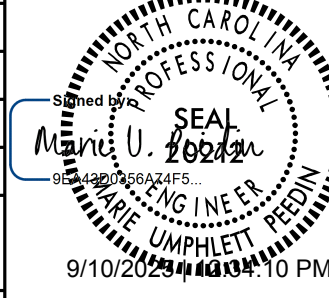
Casey Whitley, P.E. PROJECT MANAGER
David Kramer DIV. UTILITY ENGINEER

V:\Ashville\transportation\31616-01 U-5875 Allen Rd\Utilities\Water and Gas UC Sheets\U-5875.UTL UC-1A.W AND G.dgn

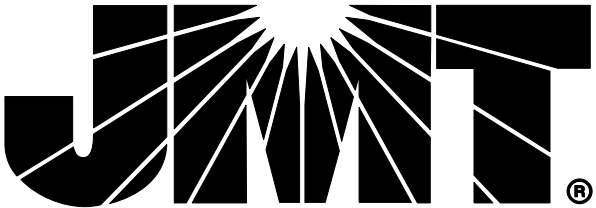
INDEX OF SHEETS

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UC-3	UTILITY CONSTRUCTION NOTES
UC-3A	GAS BILL OF MATERIALS
UC-3B THRU UC-3I	UTILITY DETAILS
UC-4	UTILITY PLAN AND PROFILE SHEET - WATER -WL-1- & -WL-2-
UC-4A	UTILITY PLAN AND PROFILE SHEET - GAS -GL-1-, -GL-1A- & -GL-2-
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UC-10	UTILITY PLAN AND PROFILE SHEET - WATER -WL-1-; GAS -GL-1-
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PITT COUNTY

PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-1A	
DESIGNED BY: SSD		 9/10/2025 4:10 PM EDT	
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:		UTILITY CONSTRUCTION PLANS ONLY	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151			
DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED			

UTILITY CONSTRUCTION



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

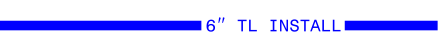
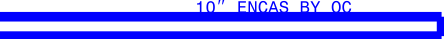
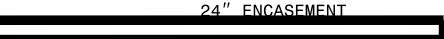
PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	
End of Information	

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

*For Existing Utilities
Utility Line Drawn from Record (Type as Shown) 
Designated Utility Line (Type as Shown) 

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024 AND THE GREENVILLE UTILITIES COMMISSION WATER AND WASTEWATER DESIGN MANUAL.

2. THE EXISTING UTILITIES BELONG TO GREENVILLE UTILITIES COMMISSION . WATER RESOURCES CONTACT: DAVID SPRINGER, 252-551-1551
NATURAL GAS CONTACT: ALAN CUMMINGS, GAS ENGINEERING COORDINATOR, CUMMINAR@GUC.COM, 252-551-3313

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT AND THE OWNER. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

7. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

10. ENCASEMENT SHALL EXTEND AS FOLLOWS (THESE ARE MINIMUM DISTANCES)
—ROADWAY CUT SECTIONS: DITCH LINE TO DITCH LINE
—ROADWAY FILL SECTIONS: 5 FEET BEYOND THE TOE OF SLOPE
—CURB AND GUTTER SECTIONS: 3 FEET BEYOND THE CURB
—ENCASED GAS OR LIQUID FUEL LINES: TO THE RIGHT OF WAY LINE

PROJECT SPECIFIC NOTES:

1. WATER, GAS, AND SEWER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GREENVILLE UTILITIES COMMISSION STANDARD DETAILS, DESIGN STANDARDS AND THE PROJECT SPECIAL PROVISIONS.

2. GREENVILLE UTILITIES COMMISSION SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE BEGINNING OF WATER, GAS, AND SEWER WORK.

3. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

4. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS FOR THE USE OF THE CONTRACTOR IN PROVIDING PROTECTION FOR THE UTILITIES DURING CONSTRUCTION OPERATIONS. NCDOT, DESIGN CONSULTANT AND/OR AGENT SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF LOCATION, SIZE, DEPTH, OR COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

5. GREENVILLE UTILITIES COMMISSION MAY HAVE A REPRESENTATIVE ON SITE DURING ALL WATER, GAS, AND SEWER LINE CONSTRUCTION ACTIVITIES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING WITH ALL NCDEQ REQUIREMENTS. ALL NCDEQ AND LOCAL TESTING MUST BE COMPLETED AND APPROVED PRIOR TO CONNECTING THE NEW CONSTRUCTION TO THE EXISTING UTILITY LINES.

7. WATER SERVICE INTERRUPTION SHALL NOT EXCEED 8 HOURS. CONTRACTOR SHALL USE ANY NECESSARY MEASURES, INCLUDING BUT NOT LIMITED TO BY-PASS PUMPING AND TEMPORARY TIE-INS, TO ENSURE CONTINUING OF WATER SERVICE TO ALL CUSTOMERS. IT IS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE NUMBER AND LOCATION OF ALL TEMPORARY TIE-INS, AND ACQUIRE ANY NECESSARY LOCAL APPROVALS OR PERMITS.

8. CONTRACTOR SHALL CONSTRUCT TEMPORARY BY-PASS LINES ON NATURAL GAS SERVICES AS REQUIRED TO AVOID SERVICE INTERRUPTIONS.

9. FOR WATER LINES TO BE INSTALLED INSIDE OF ENCASEMENT, THE PIPE MATERIAL SHALL BE RESTRAINED JOINT DUCTILE IRON.

10. ALL DUCTILE IRON PIPE USED FOR SEWER LINE INSTALLATION SHALL BE COATED WITH AMINE CURED NOVALAC EPOXY CONTAINING AT LEAST 20% BY VOLUME OF CERAMIC QUARTZ PIGMENT.

11. CONTRACTOR RESPONSIBLE FOR REMOVING ALL ABANDONED WATER METERS, WATER VALVES AND VALVE BOXES. OLD WATER LINES TO BE PLUGGED AND ABANDONED AFTER VALVE REMOVAL. GUC WILL REMOVE THE GAS METERS IF NECESSARY. GAS VALVES WILL BE ABANDONED IN PLACE PER GUC AND NCDOT REQUIREMENTS. THE CONTRACTOR SHOULD REMOVE THE VALVE BOX.

12. IF WATER MAIN HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL, IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.

13. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF EXISTING WATER SERVICES. CONTRACTOR SHALL RECONNECT WATER SERVICE WITH A NEW WATER LINE FROM MAIN TO WATER METER. IF WATER LINE CROSSES EXISTING OR PROPOSED ROADWAY, THE INSTALLATION SHALL BE VIA TRENCHLESS CONSTRUCTION METHOD.

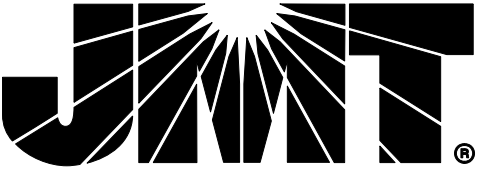
14. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING GAS SERVICES. CONTRACTOR SHALL RECONNECT GAS SERVICE WITH A NEW GAS LINE FROM THE MAIN TO THE EXISTING SERVICE AT THE EDGE OF RIGHT OF WAY OR EASEMENT. IF THE GAS LINE CROSSES THE ROADWAY, THE INSTALLATION SHALL BE VIA TRENCHLESS CONSTRUCTION METHODS. SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE GAS DEPARTMENT. ALL SERVICE LINES SHALL BE PRESSURE TESTED FROM THE NEW TAP TO THE CUSTOMER RISER. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING VALVES. THE GAS DEPARTMENT STAFF WILL ASSIST WITH ANY VALVES THAT NEED TO BE OPERATED.

15. FOR ALL WATERLINES GREATER THAN 12" IN DIAMETER CONTRACTOR SHALL USE RESTRAINED JOINT PIPE. ALL WATERLINES 12" IN DIAMETER OR LESS SHALL USE STANDARD MECHANICAL JOINTS AND GRIP RINGS ACCORDING TO OWNER SPECIFICATIONS.

16. FIRE HYDRANTS THAT ARE TO BE REMOVED SHALL BE RETURNED TO GREENVILLE UTILITIES COMMISSION BY THE CONTRACTOR.

17. CONTRACTOR TO USE NITRILE GASKETS FOR ANY WATER LINE INSTALLATION IN OR NEAR CONTAMINATED SOILS.

18. A MINIMUM OF 4 FEET OF COVER SHALL BE MAINTAINED OVER THE 24-INCH WATER LINE TO ENSURE PROPER WATER VALVE INSTALLATION, OPERATION AND MAINTENANCE.



PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-3	
DESIGNED BY: SSD		UTILITY CONSTRUCTION PLANS ONLY	
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			
UTILITY CONSTRUCTION PLANS ONLY			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

TRANSPASIGG-01UTILITIES\ U-5875-UTL-UC-3-W-AND-GUCN

GREENVILLE UTILITIES COMMISSION

BILL OF MATERIALS: GAS (GUC PROVIDED)

(U-5875 Natural Gas) BILL OF MATERIALS									
		ITEM #	QTY	UNIT	NOM. SIZE (IN.)	W.T.	GRADE	DESCRIPTION	
PIPE	1	1.1	12994	LF	6	0.602	MDPE	Pipe, ASTM D2513 & ASTM D2683, 0.602" min. wall thickness, 6.625" o.d., SDR 11, PE 2406/2708, 40 LF sticks, MARKED DOT SECT. 192.63, ENDS CAPPED	
		1.2	1662	LF	4	0.391	MDPE	Pipe, ASTM D2513 & ASTM D2683, 0.391" min. wall thickness, 4.500" o.d., SDR 11.5, PE 2406/2708, 40 LF sticks, MARKED DOT SECT. 192.63, ENDS CAPPED	
		1.3	746	LF	2	0.216	MDPE	Pipe, ASTM D2513 & ASTM D2683, 0.216" min. wall thickness, 2.375" o.d., SDR 11, PE 2406/2708, Coil, MARKED DOT SECT. 192.63, ENDS CAPPED	
		1.4	896	LF	3/4	0.095	MDPE	Pipe, ASTM D2513 & ASTM D2683, 0.095" min. wall thickness, 1.050" o.d., SDR 11, PE 2406/2708, Coil, MARKED DOT SECT. 192.63, ENDS CAPPED	
		1.5	218	LF	8	0.322	X-52	Steel Pipe, 8" NOMINAL DIAMETER, STD. 0.322" W.T., ERW, API 5L, GR X-52, EXTERNALLY COATED WITH 12-14 MILS FBE, PREFERRED PRODUCT 3M SCOTCHKOTE 226N/6233, Domestic	
		1.6	203	LF	12	0.250	B	Steel Pipe, 12" GRADE B CARBON STEEL, SCH. 20, STD, W.T. 0.250", API-5L, Bare, Domestic	
		1.7	140	LF	2	0.154	X-52	Steel Pipe, 2" NOMINAL DIAMETER, STD. 0.154" W.T. ERW, API 5L, GR X-52, EXTERNALLY COATED WITH 12-14 MILS FBE, PREFERRED PRODUCT 3M SCOTCHKOTE 226N/6233, Domestic	
VALVES	2	2.1	9	EA	6	0.784	MDPE	Polyethylene Valve, Full Port, Ball, SDR 11.5, Butt Fusion, Medium Density PE 2406/2708, Must Meet or Exceed Requirements of USDOT 49CFR-part 192 for Natural Gas Distribution.	
		2.2	2	EA	4	0.5	MDPE	Polyethylene Valve, Full Port, Ball, SDR 11.5, Butt Fusion, Medium Density PE 2406/2708, Must Meet or Exceed Requirements of USDOT 49CFR-part 192 for Natural Gas Distribution.	
END CAP	3	2.3	8	EA	2	0.37	MDPE	Polyethylene Valve, Full Port, Ball, SDR 11.5, Butt Fusion, Medium Density PE 2406/2708, Must Meet or Exceed Requirements of USDOT 49CFR-part 192 for Natural Gas Distribution.	
		3.1	10	EA	6	0.602	MDPE	End Cap, ASTM D2513 & ASTM D2683, Butt fuse, injection molded, SDR 11, PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
		3.2	9	EA	4	0.391	MDPE	End Cap, ASTM D2513 & ASTM D2683, Butt fuse, injection molded, SDR 11, PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
		3.3	13	EA	2	0.216	MDPE	End Cap, ASTM D2513 & ASTM D2683, Butt fuse, injection molded, SDR 11, PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
		3.4	7	EA	3/4	0.095	MDPE	End Cap, ASTM D2513 & ASTM D2683, Butt fuse, injection molded, SDR 11, PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
ELECTROFUSION COUPLINGS	4	4.1	60	EA	6	-	HDPE	Electrofusion Coupling, ASTM D2513 & ASTM D2683, Injection Molded, SDR 11, PE 2406/2708	
		4.2	21	EA	4	-	HDPE	Electrofusion Coupling, ASTM D2513 & ASTM D2683, Injection Molded, SDR 11, PE 2406/2708	
		4.3	30	EA	2	-	HDPE	Electrofusion Coupling, ASTM D2513 & ASTM D2683, Injection Molded, SDR 11, PE 2406/2708	
		4.4	14	EA	3/4	-	HDPE	Electrofusion Coupling, ASTM D2513 & ASTM D2683, Injection Molded, SDR 11, PE 2406/2708	
ELLS	5	5.1	3	EA	6	0.784	MDPE	90 deg ELL, ASTM D2513 & ASTM D2683, Butt Fuse, Injection Molded, SDR 11, PE2406/2708, ASTM Marked DOT SECT.192.63	
		5.2	16		6	0.784	MDPE	45 deg ELL, ASTM D2513 & ASTM D 2683, SDR 11, Butt Fusion, Injection Molded, Medium Density PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
		5.3	3	EA	4	0.784	MDPE	90 deg ELL, ASTM D2513 & ASTM D2683, Butt Fuse, Injection Molded, SDR 11, PE2406/2708, ASTM Marked DOT SECT.192.63	
		5.4	6	EA	4	0.784	MDPE	45 deg ELL, ASTM D2513 & ASTM D2683, Butt Fuse, Injection Molded, SDR 11, PE2406/2708, ASTM Marked DOT SECT.192.63	
TEES	6	6.1	4	EA	6 x 6	0.5	MDPE	Tee , ASTM D2513 & ASTM D 2683, SDR 11, Butt Fusion, Injection Molded, Medium Density PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
TAPPING TEES	7	7.1	8	EA	6 X 2	0.5	HDPE	Electrofusion High Volume Taping Tee, ASTM D2513 & ASTM D2683, SDR 11, Butt Fusion Outlet, Rectangular Base, Medium Density PE 2406/2708	
		7.2	5	EA	6 X 3/4	0.5	HDPE	Electrofusion High Volume Taping Tee, ASTM D2513 & ASTM D2683, SDR 11, Butt Fusion Outlet, Rectangular Base, Medium Density PE 2406/2710	
		7.3	1	EA	4 X 2	0.5	HDPE	Electrofusion High Volume Taping Tee, ASTM D2513 & ASTM D2683, SDR 11, Butt Fusion Outlet, Rectangular Base, Medium Density PE 2406/2710	
		7.4	2	EA	4 X 3/4	0.5	HDPE	Electrofusion High Volume Taping Tee, ASTM D2513 & ASTM D2683, SDR 11, Butt Fusion Outlet, Rectangular Base, Medium Density PE 2406/2710	
MISCELLANEOUS	8	8.1	2	EA	8 X 8	0.784	-	STEEL TO PLASTIC TRANSITION FITTING, ASTM D2513 & ASTM D2683, SDR 11, 0.322" min. wall, Medium Density PE 2406/2708	
		8.2	962	LF	-	-	-	TRACER WIRE #10 Yellow THHN, Stranded Copper, 500' Hand Spools	
		8.3	16067	EA	-	-	-	TRACER WIRE #8 Yellow THHN, Stranded Copper, 500' Hand Spools	
		8.4	18	EA	6	-	-	Valve Box, Flush Mount, Gas Lid	
		8.5	18	EA	-	-	-	Pre-Cast Concrete Collar	
		8.6	3	EA	6	-	-	Casing End Seals, PSI (GPT Industries) Link-Seal Modular Seals LS-475-OS-316 (nitrile - green) 12 links per each, Or As Approved By Engineer	
		8.7	60	EA	6 X 12	-	-	Concentric Casing Spacers (Insulators), Bolt-On, Polyethylene	
		8.8	1	EA	-	-	-	17 LB magnesium anode, #12 AWG, with test station	
		8.9	2	EA	2	0.154	X-52	90 deg ELL, STD Wall (WT=0.154"), Long Radius, ST API 5L-GR Y-52, Domestic	
		8.10	2	EA	2	0.154	X-52	180 deg Return, STD Wall (WT=0.154"), ST API 5L-GR Y-52, Domestic	
		8.11	10	EA	6	-	-	Locate Station (flush mounted valve box with gas lid)	
REDUCERS	9	9.1	2	EA	8x6	-	MDPE	8"x6" Reducer,ASTM D2513 & ASTM D 2683, SDR 11, Butt Fusion, Injection Molded, Medium Density PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
		9.2	3	EA	6x4	-	MDPE	6"x4" Reducer,ASTM D2513 & ASTM D 2683, SDR 11, Butt Fusion, Injection Molded, Medium Density PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
		9.3	2	EA	4x2	-	MDPE	4"x2" Reducer,ASTM D2513 & ASTM D 2683, SDR 11, Butt Fusion, Injection Molded, Medium Density PE 2406/2708, ASTM MARKED DOT SECT. 192.63	
The GUC Gas Department shall supply the CONTRACTOR with all materials as listed in the Bill of Materials. Materials furnished by the GUC Gas Department will be available to the CONTRACTOR at GUC's warehouse located at 701 Utility Way, Greenville, North Carolina. The CONTRACTOR shall provide all other materials and equipment required for construction of the pipeline.									

* MATERIALS LISTED IN THE BILLS OF MATERIALS TABLE ABOVE ARE TO BE SUPPLIED BY GREENVILLE UTILITIES COMMISSION (GUC) GAS DEPARTMENT. ALL LABOR, EQUIPMENT, AND ANY OTHER NECESSARY MATERIALS FOR GAS PIPE INSTALLATION ARE TO BE PAID TO CONTRACTOR UNDER " _ " GAS PIPE", " _ " GAS VALVE", " _ " GAS SERVICE LINE", "RECONNECT GAS SERVICE", AND/ OR "GAS CASING VENT". REFER TO GAS SPECIAL PROVISIONS FOR MORE DETAILS ON GAS LINE INSTALLATION, TESTING AND PAYMENT.

PROJECT REFERENCE NO.
U-5875

SHEET NO.
UC-3A

DESIGNED BY: **SSD**

DRAWN BY: **ND**

CHECKED BY: **JDN**

APPROVED BY: **MUP**

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

9/10/2024 10:10 PM EDT

SEAL
U-5875 UC-3A

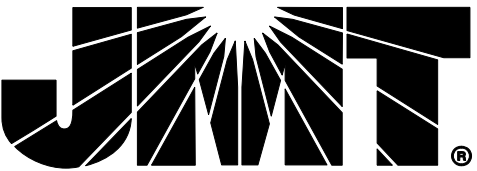
UTILITY CONSTRUCTION
PLANS ONLY

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION

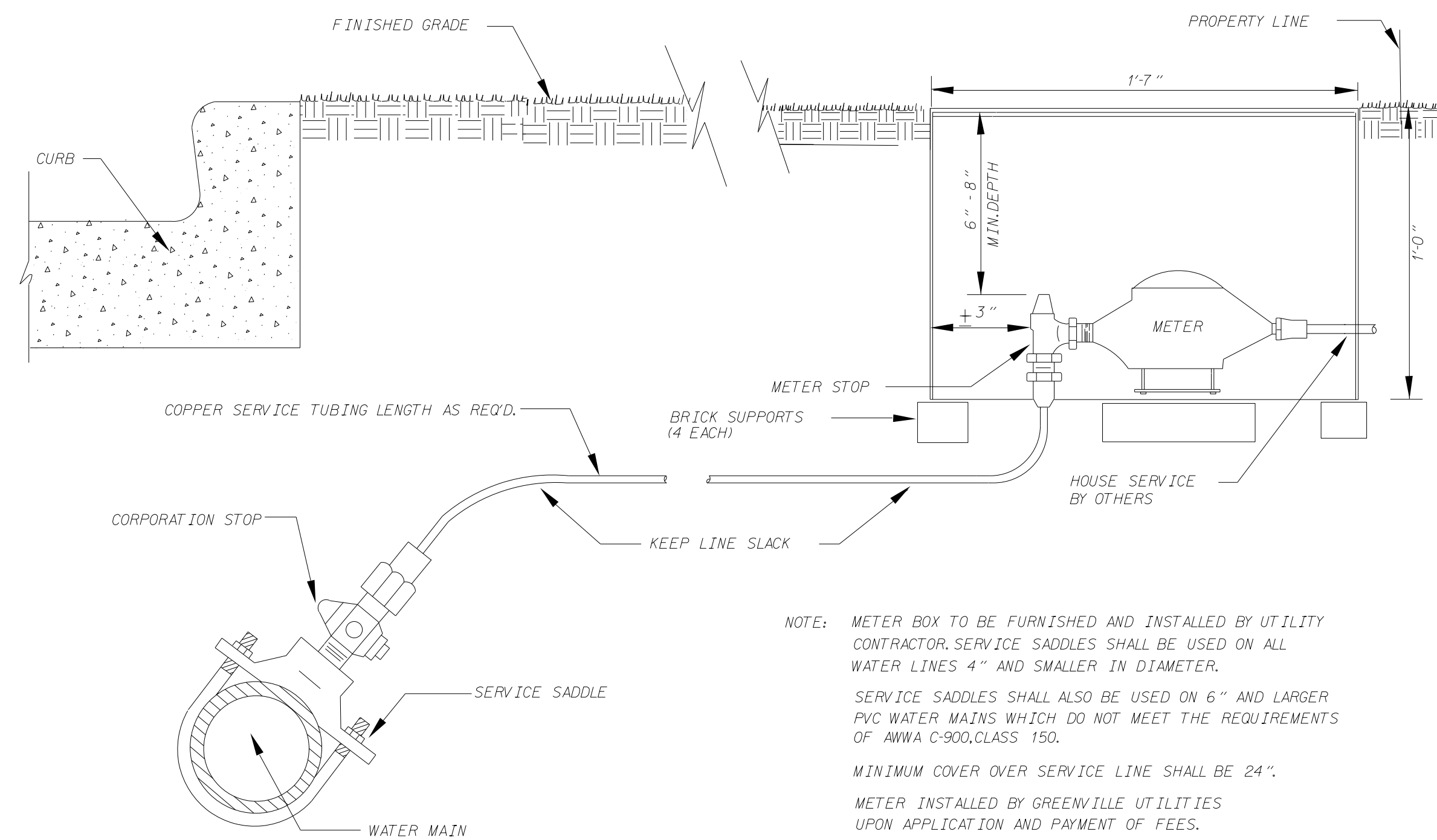
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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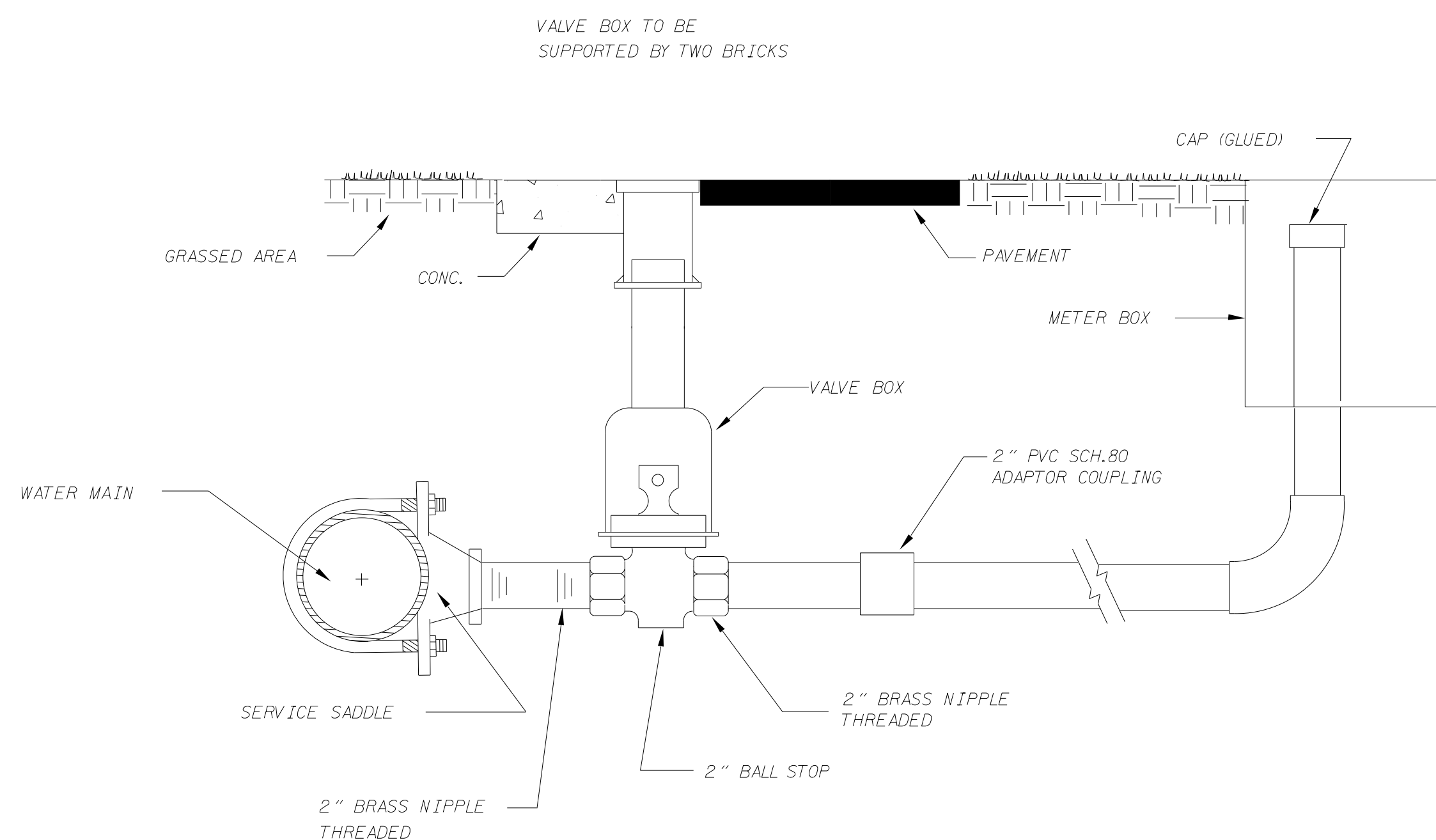


GREENVILLE UTILITIES COMMISSION

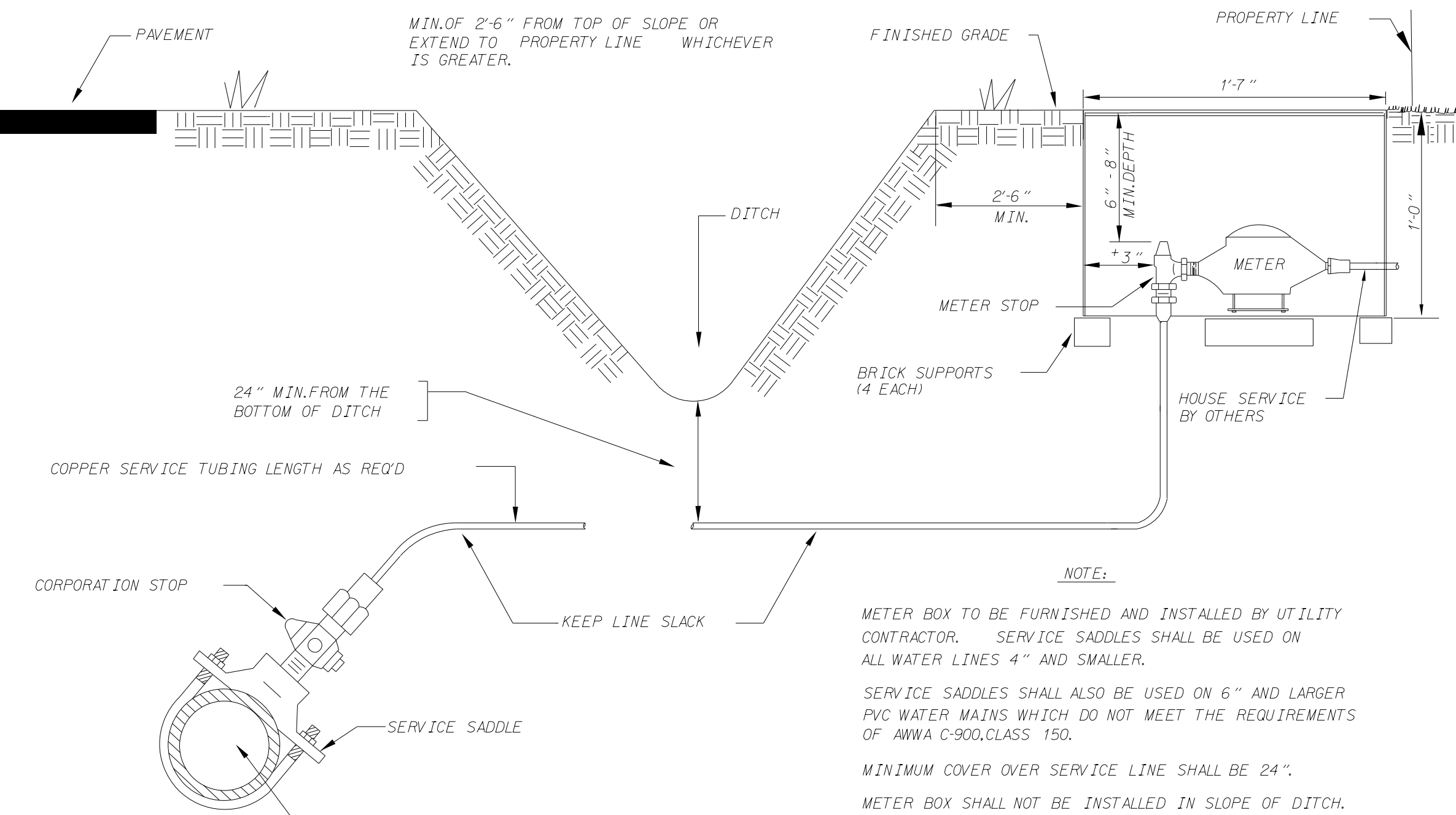
PROJECT SPECIFIC DETAILS: WATER



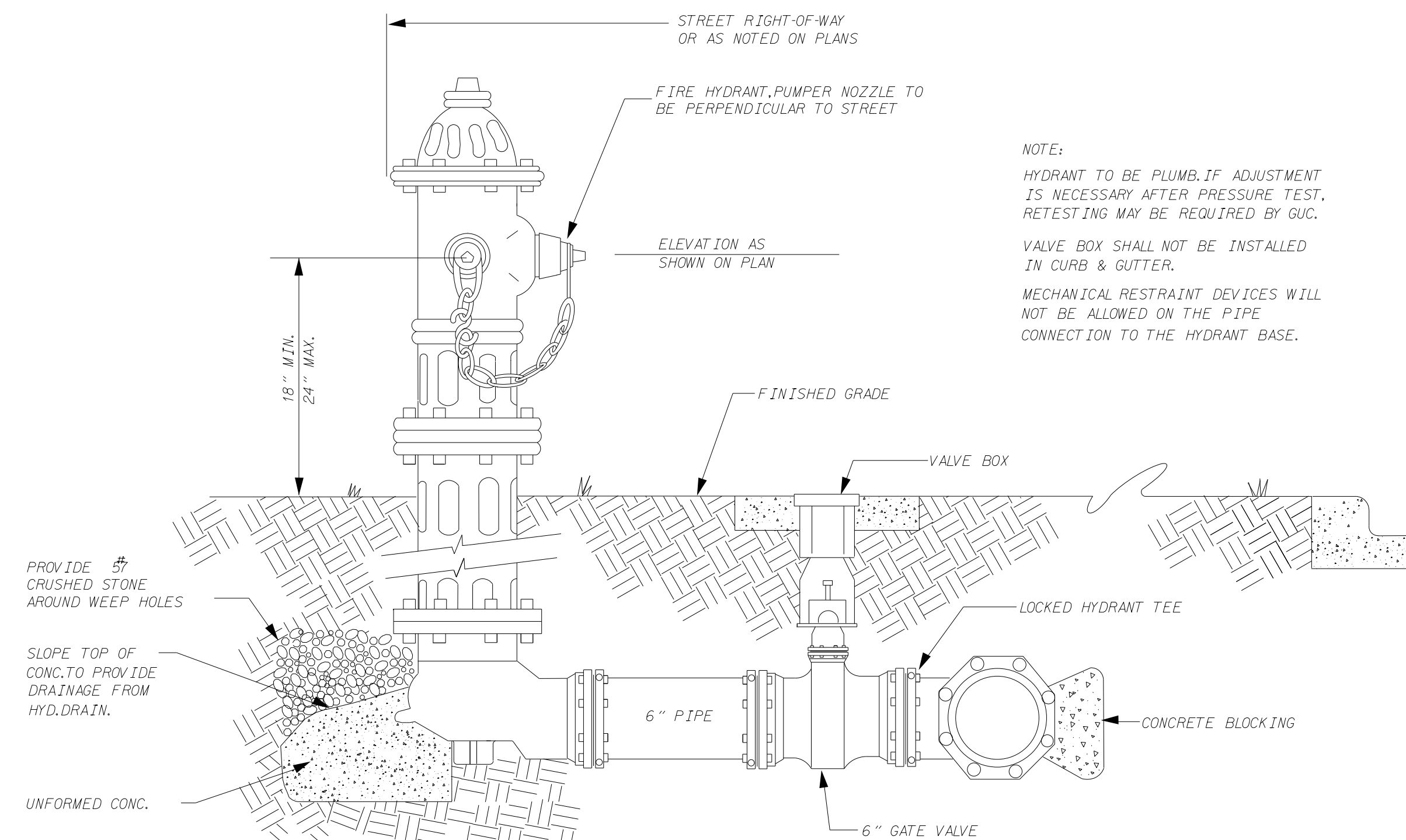
**1" WATER SERVICE DETAIL FOR
AREAS WITH CURB AND GUTTER**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-1, REVISED 3-12-99)



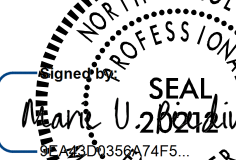
TYPICAL 1-1/2" AND 2"
WATER SERVICE CONNECTION
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-3, REVISED 3-12-95)



**1" WATER SERVICE DETAIL FOR
AREAS WITHOUT CURB AND GUTTER**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-2, REVISED 3-12-99)



FIRE HYDRANT INSTALLATION
(FOR AREAS WITH CURB AND GUTTER)
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-4, REVISED 3-12-99)

PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-3B	
DESIGNED BY: SSD			
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		9/10/2008 1:00 PM EDT UTILITY CONSTRUCTION PLANS ONLY	
UTILITY CONSTRUCTION			
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GREENVILLE UTILITIES COMMISSION PROJECT SPECIFIC DETAILS: WATER

PROJECT REFERENCE NO.
U-5875

SHEET NO.
UC-3C

DESIGNED BY: **SSD**

DRAWN BY: **ND**

CHECKED BY: **JDN**

APPROVED BY: **MUP**

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

9/10/2024 10:10 PM EDT

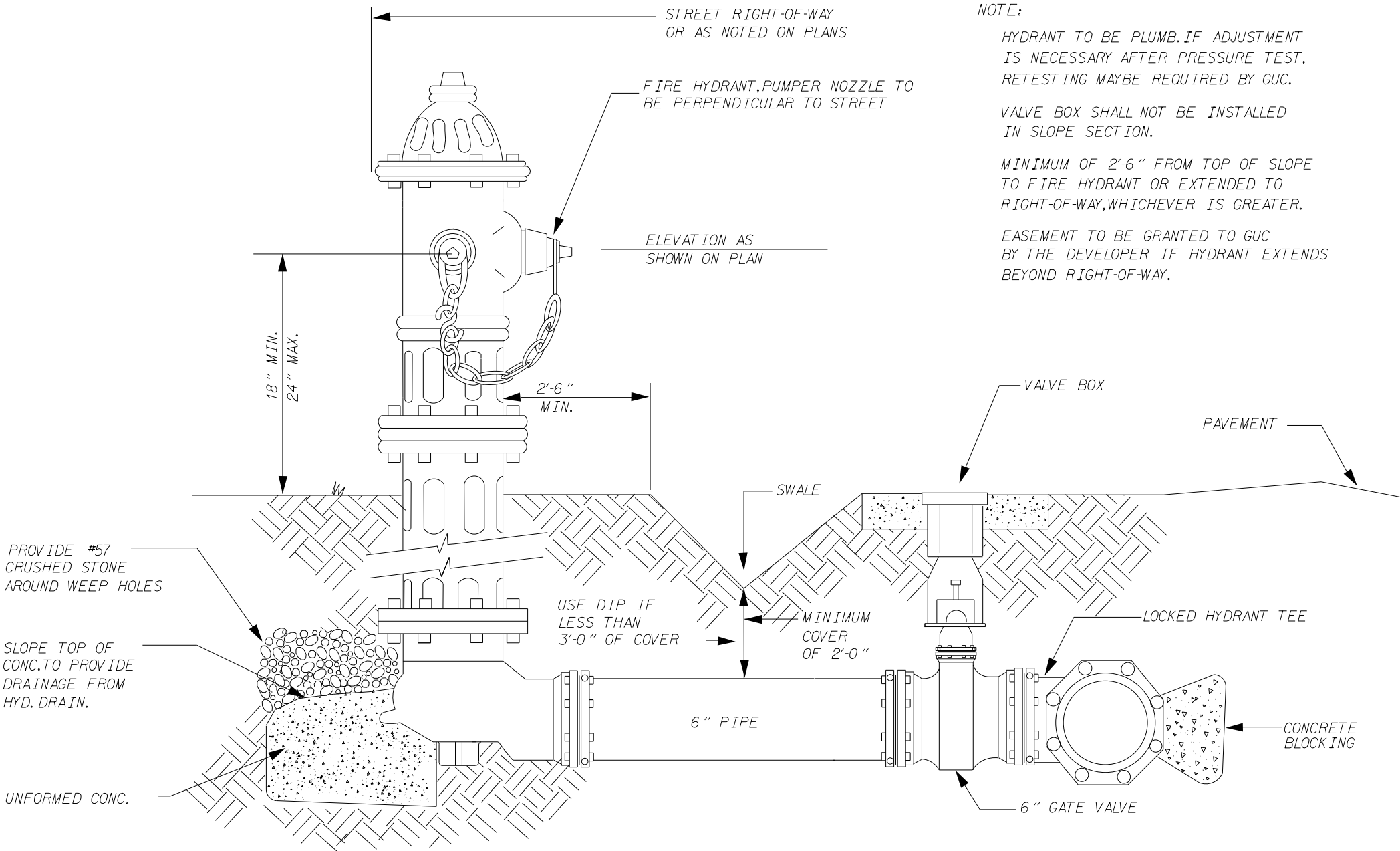
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION
PLANS ONLY

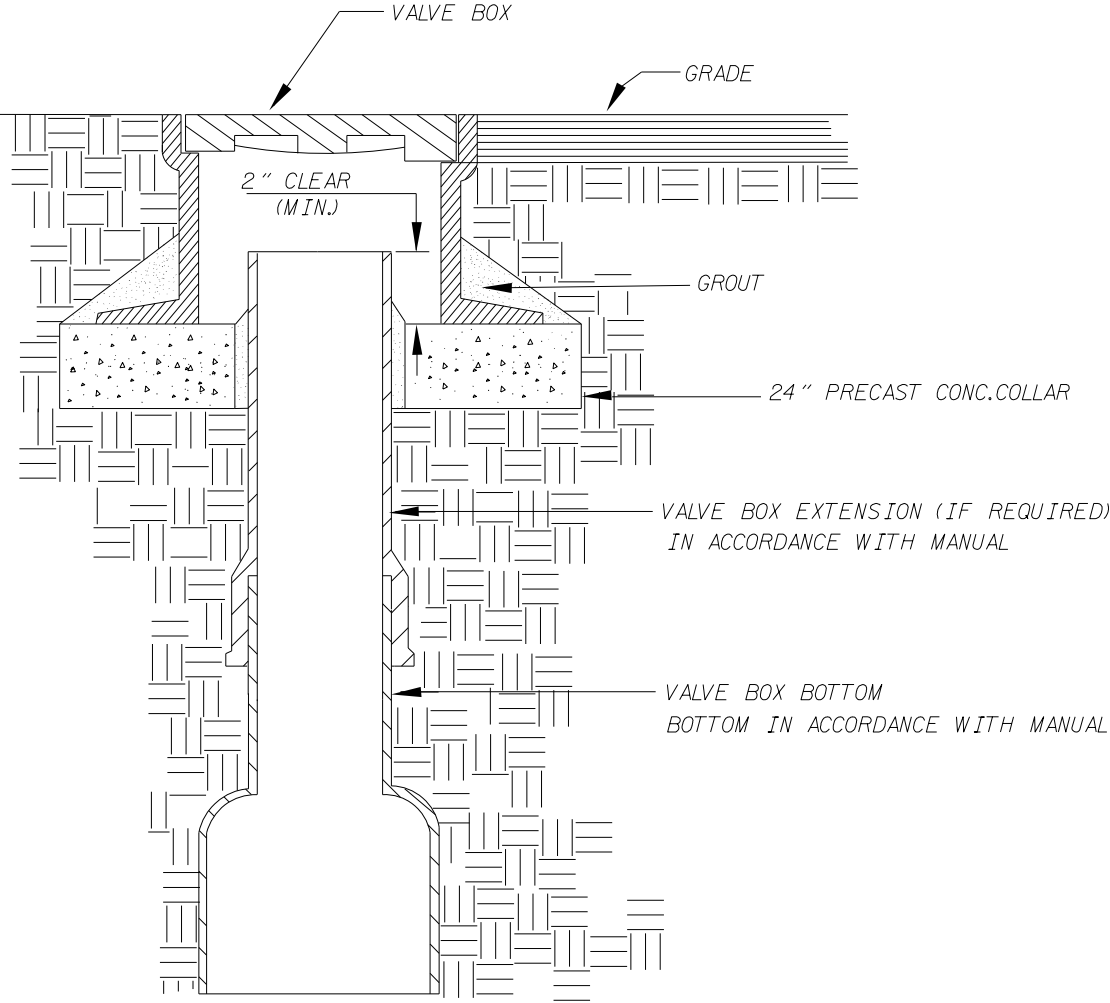
SEAL
NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 00123456
EXPIRATION DATE 12/31/2026

UTILITY CONSTRUCTION

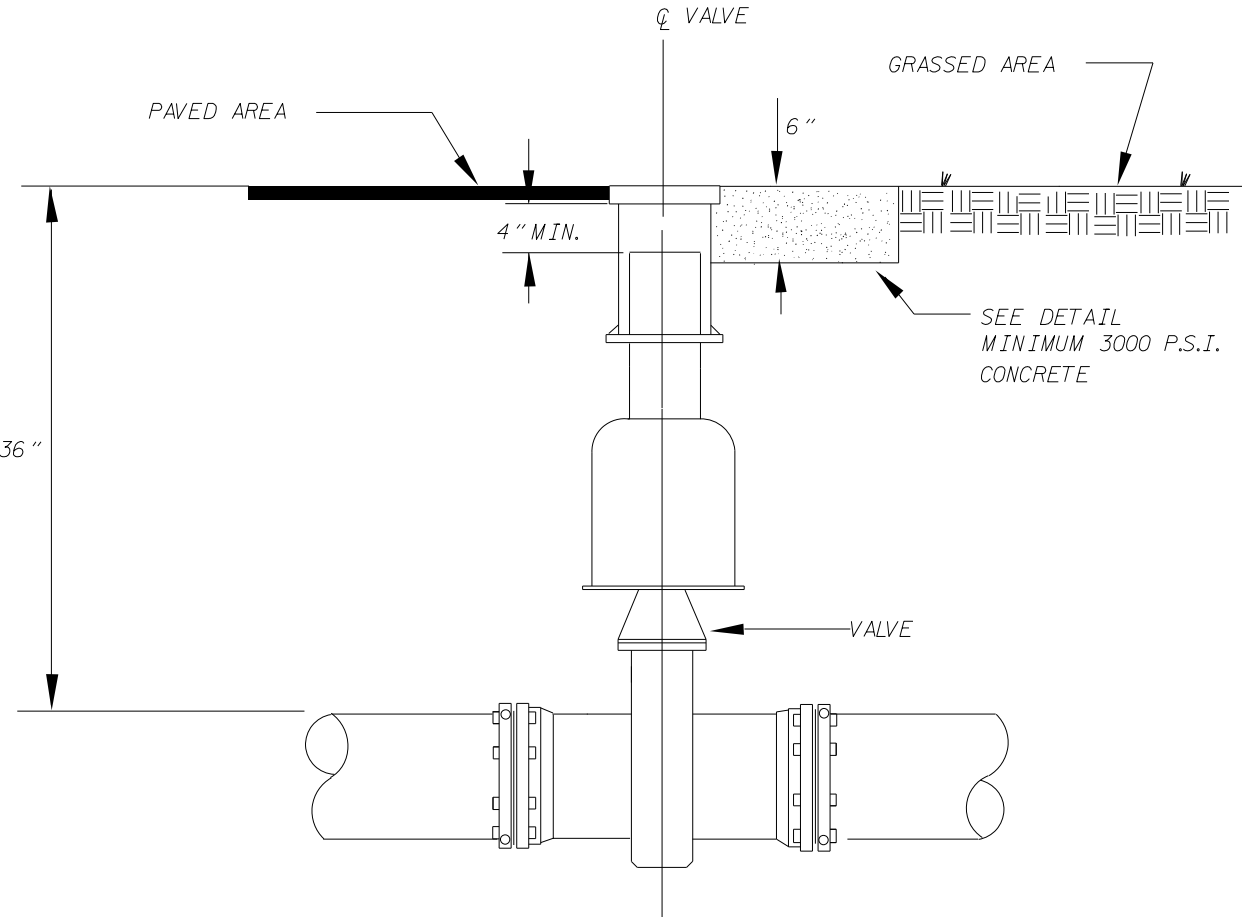
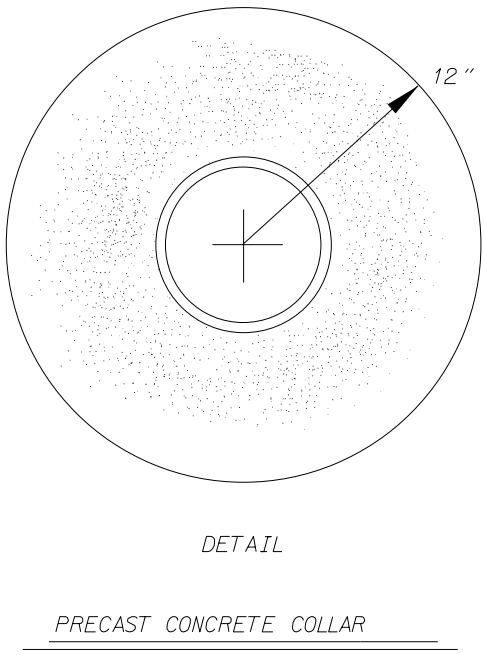
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**FIRE HYDRANT INSTALLATION
(FOR AREAS WITHOUT CURB AND GUTTER)**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-5, REVISED 3-12-99)



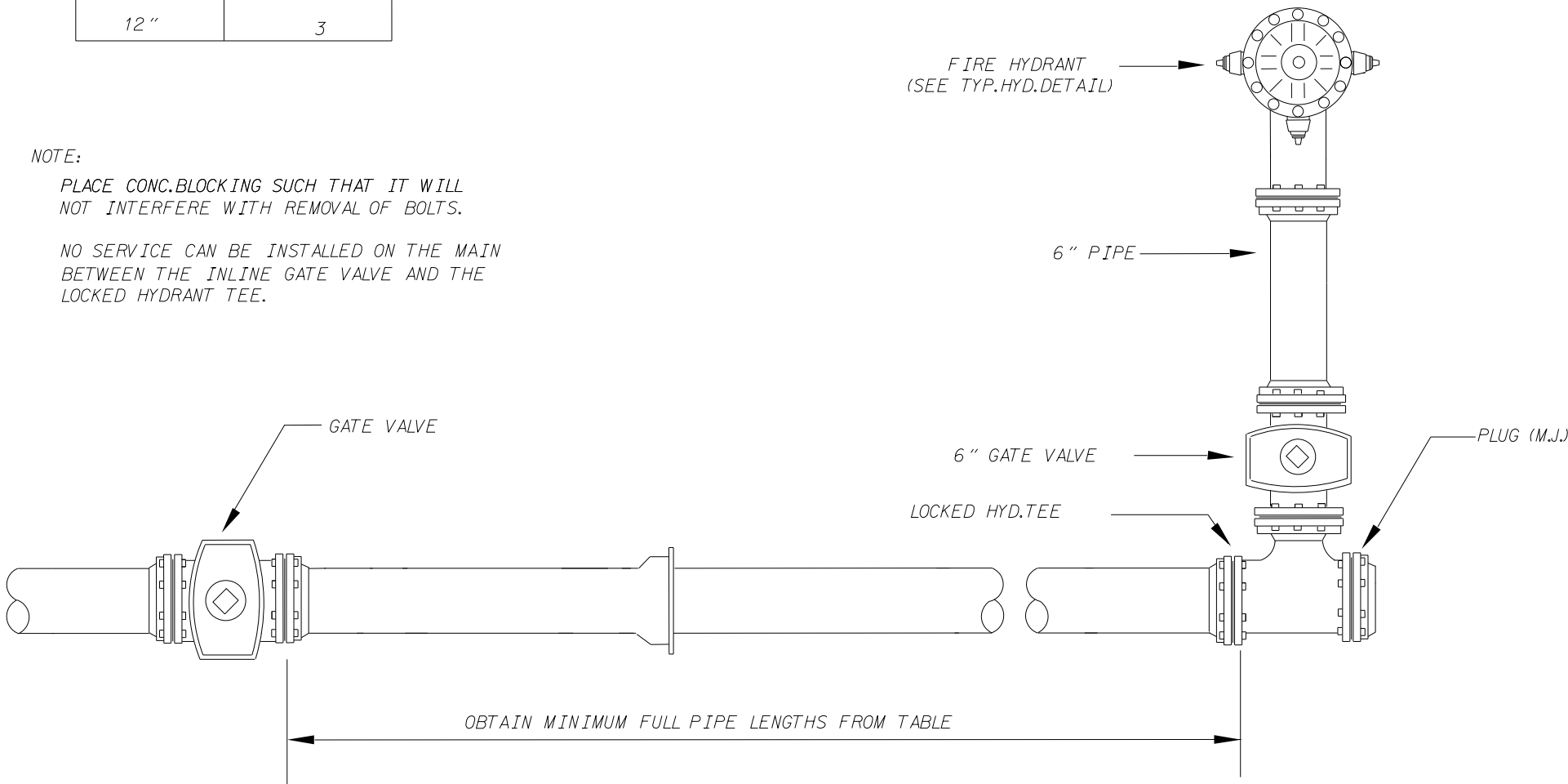
**VALVE BOX DETAIL
FOR VALVES 12" AND LARGER**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-6, REVISED 3-12-99)



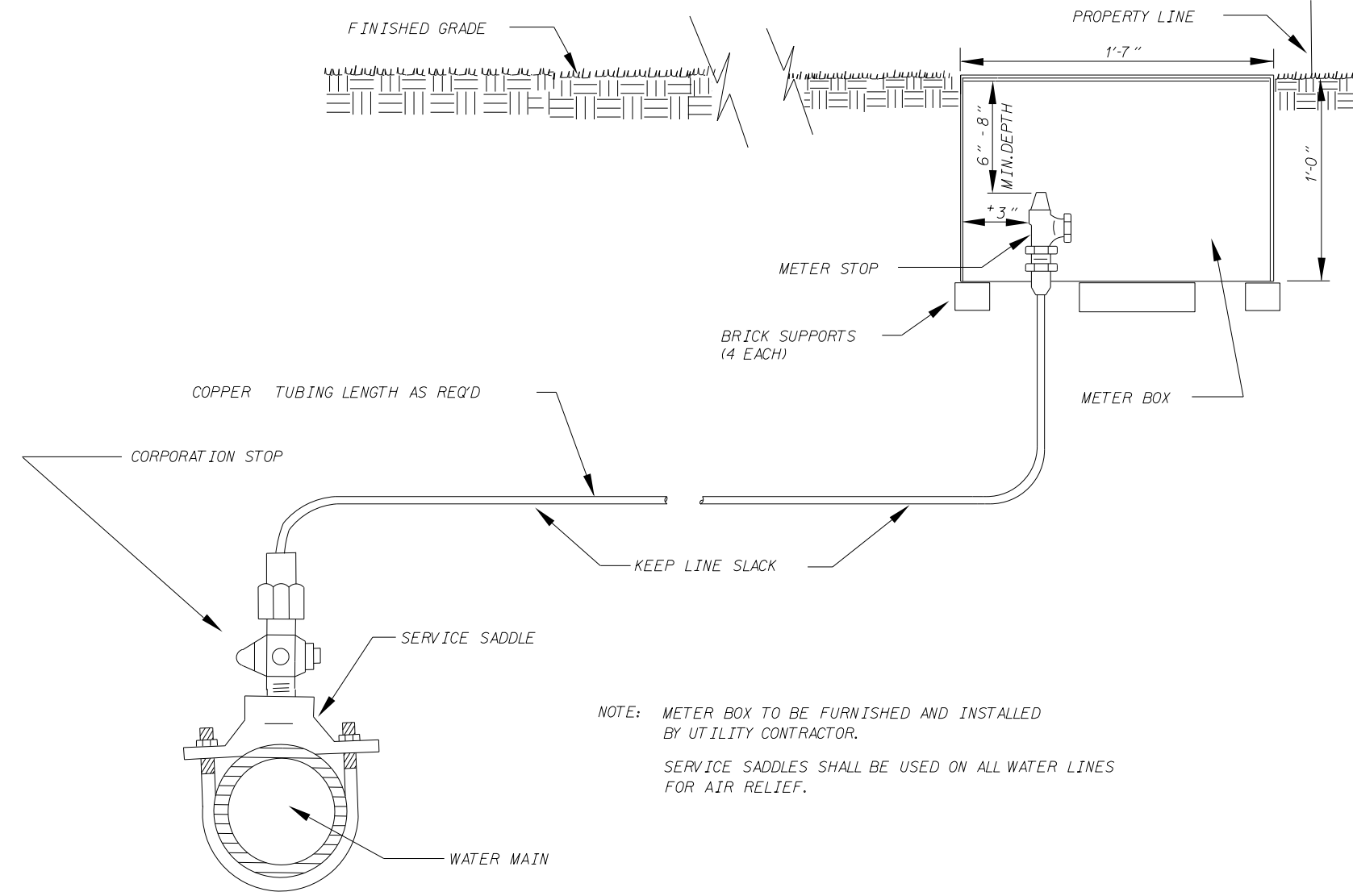
**VALVE BOX DETAIL
FOR VALVES SMALLER THAN 12"**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-7, REVISED 3-12-99)

PIPE DIA (IN.)	MIN. FULL PIPE LENGTHS
6"	2
8"	3
10"	3
12"	3

NOTE:
PLACE CONC. BLOCKING SUCH THAT IT WILL NOT INTERFERE WITH REMOVAL OF BOLTS.
NO SERVICE CAN BE INSTALLED ON THE MAIN BETWEEN THE INLINE GATE VALVE AND THE LOCKED HYDRANT TEE.

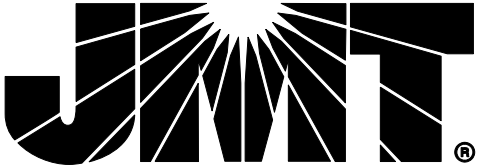


TERMINATION OF 6" - 12" WATER MAIN
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-8, REVISED 3-12-99)

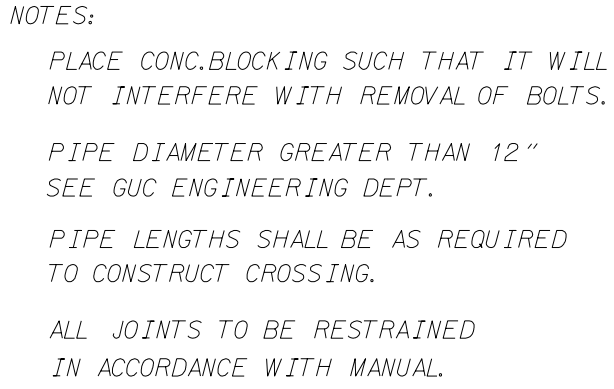


MANUAL AIR RELEASE FOR WATER
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL W-15, REVISED 3-12-99)

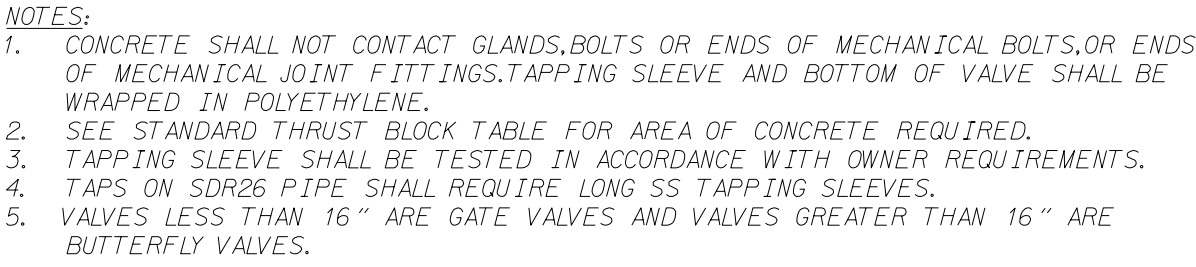
TRANSP.\31616-01_U-5875\UTIL\U-5875_U+1_UC-3B.DGN



PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-3D	
DESIGNED BY: SSD	Seal of the North Carolina Department of Transportation Seal Date 12/22/2012 By [Signature] The Engineer 9/10/2012 10:00 PM EDT	UTILITY CONSTRUCTION PLANS ONLY	
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			
UTILITY CONSTRUCTION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

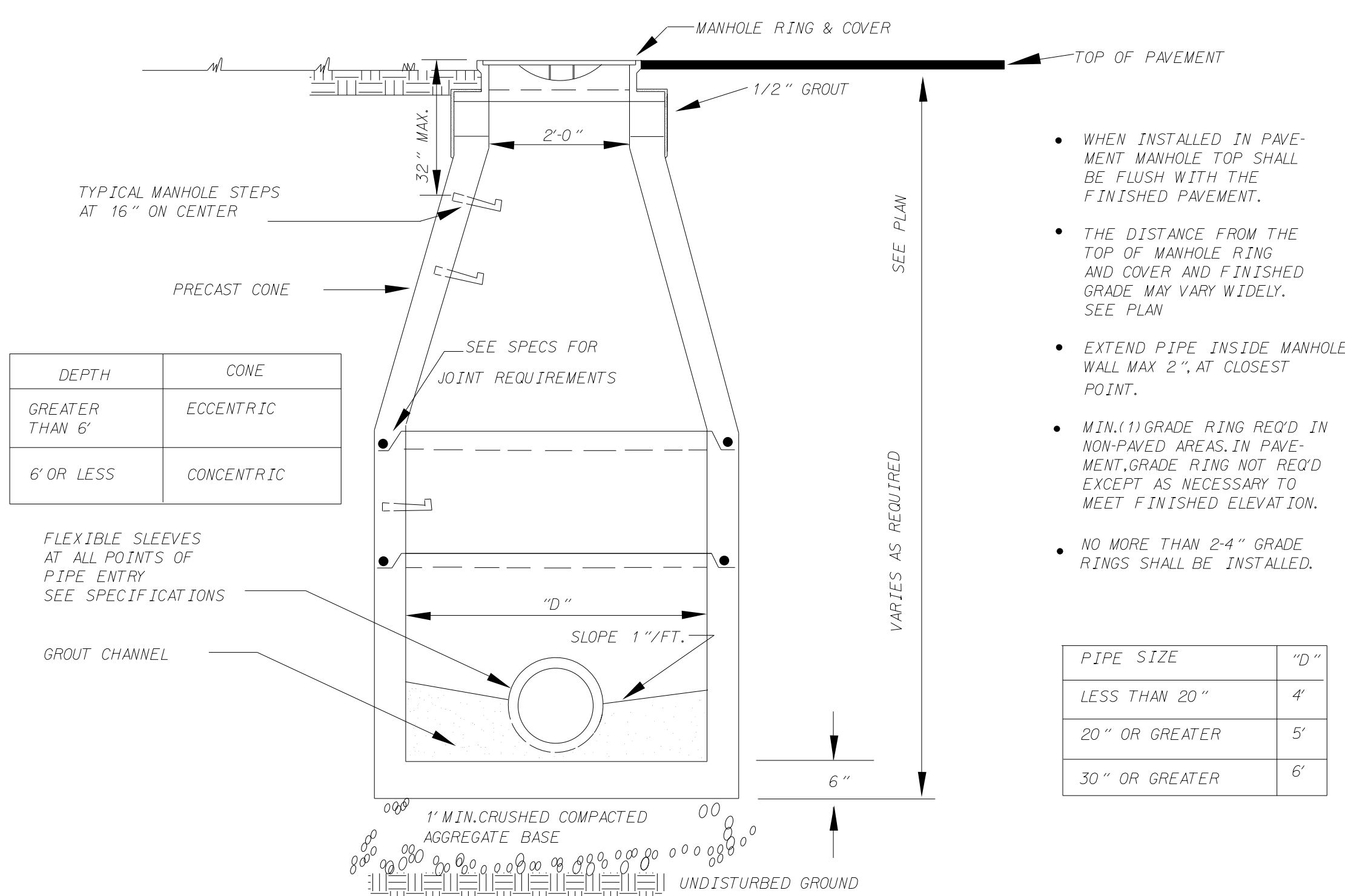


(GREENVILLE UTILITIES STANDARD DETAIL W-14, REVISED 3-12-99)

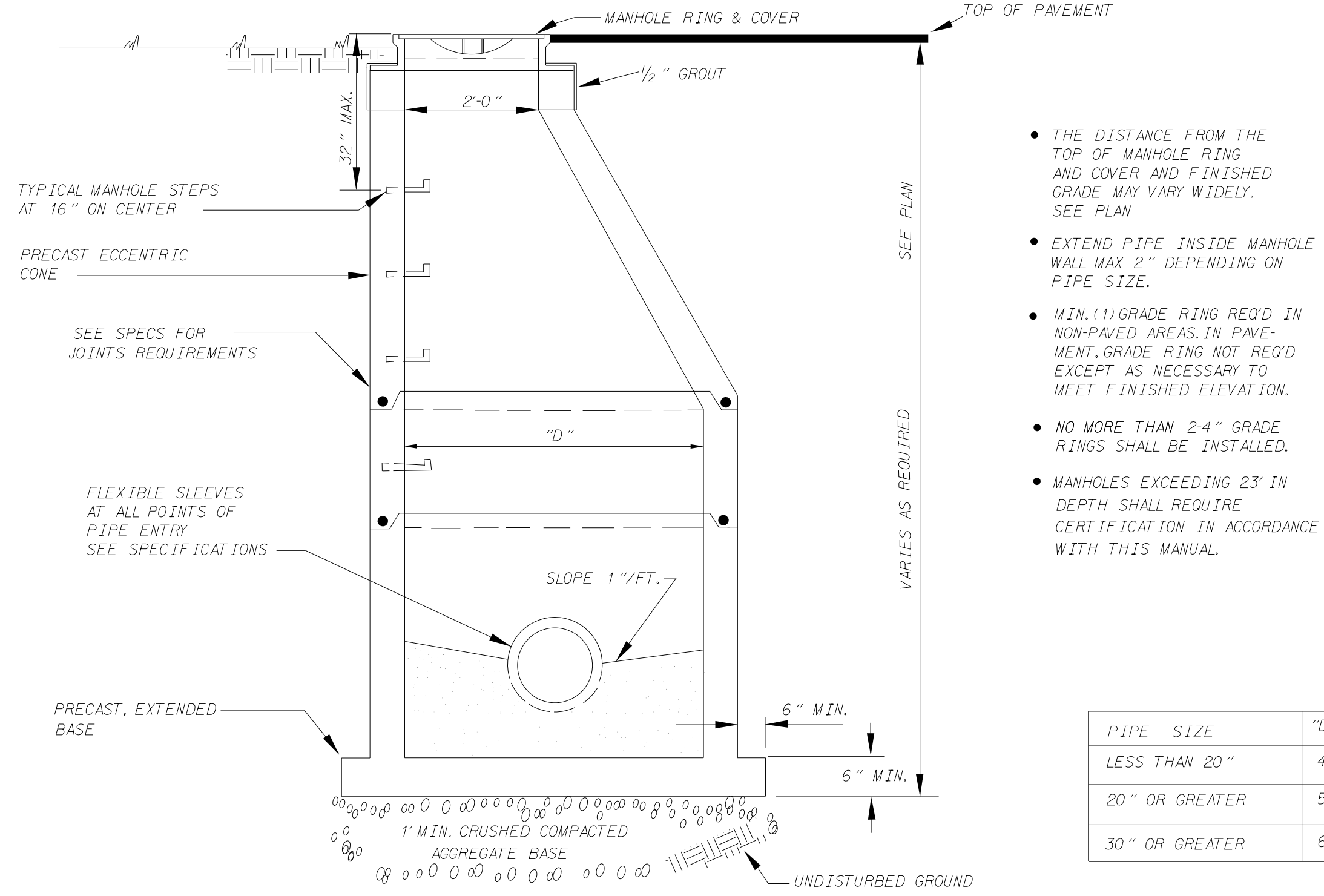


NOT TO SCALE

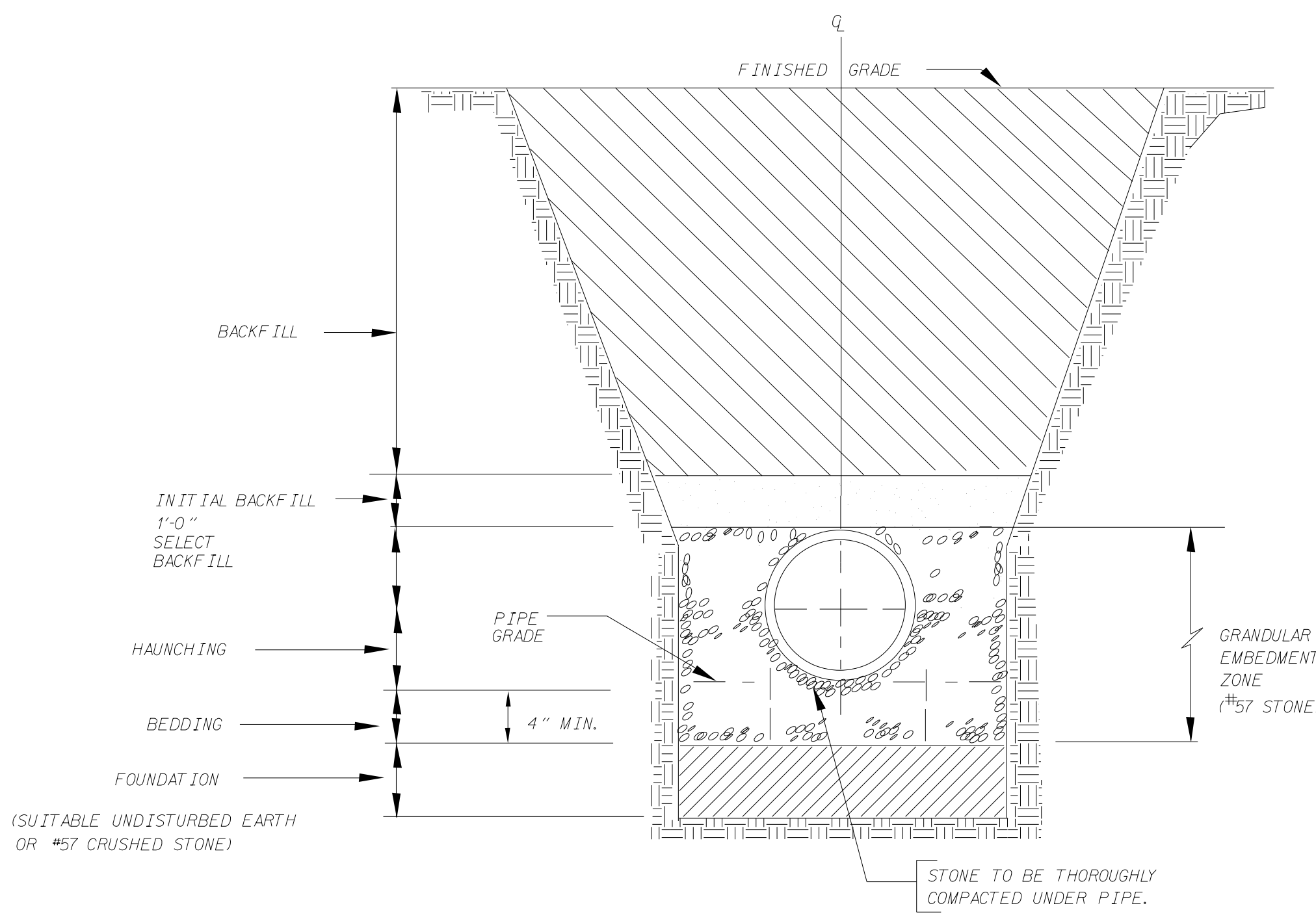
GREENVILLE UTILITIES COMMISSION PROJECT SPECIFIC DETAILS: SEWER



**TYPICAL PRECAST MANHOLE
FOR MANHOLES 12' OR LESS IN DEPTH**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL S-4, REVISED 3-12-99)

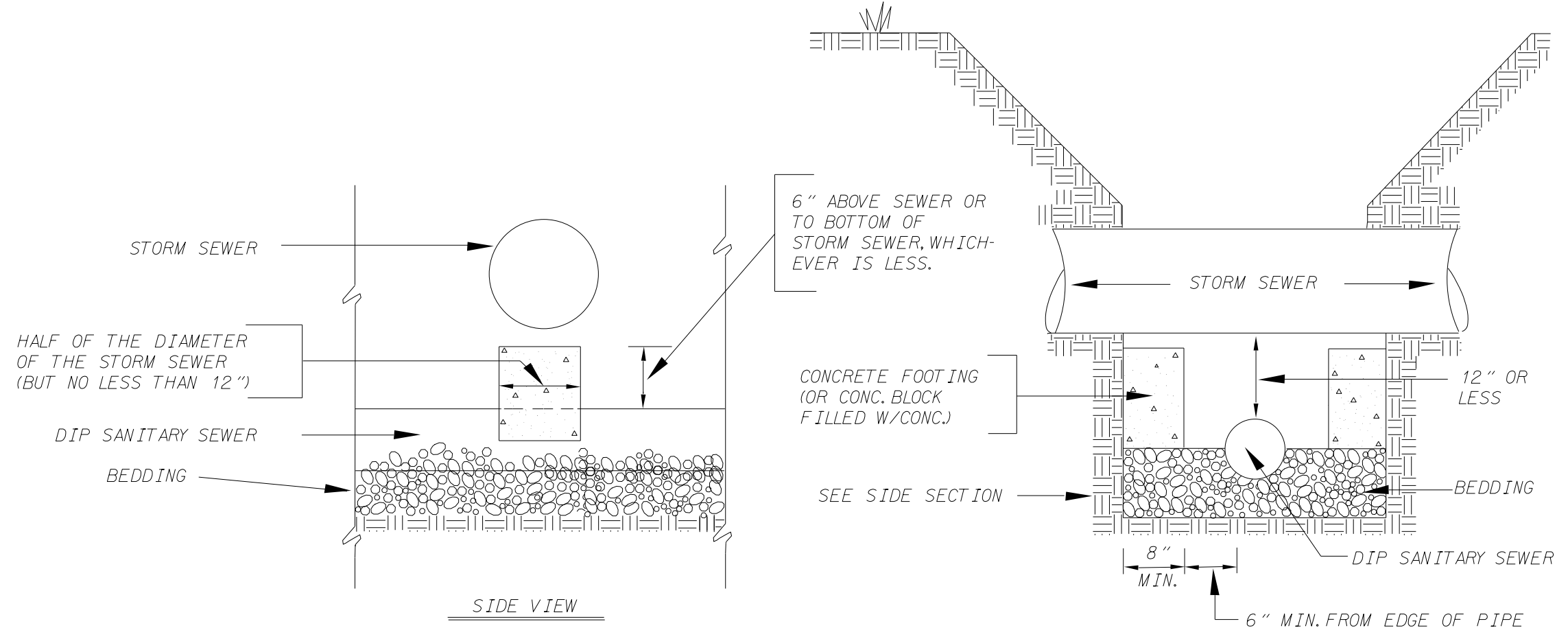


**TYPICAL PRECAST MANHOLE
FOR MANHOLES OVER 12' IN DEPTH**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL S-5, REVISED 3-12-99)

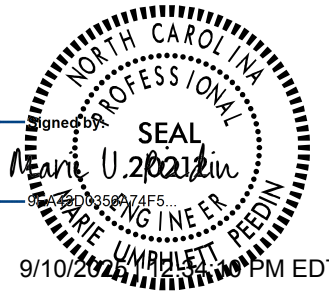


**TRENCH SECTION DETAIL FOR THE
INSTALLATION OF PVC SANITARY
SEWER PIPE (NOT INCLUDING TRUSS)**
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL S-9, REVISED 3-12-99)

NOTE:
WHEN A SANITARY SEWER MUST BE INSTALLED
UNDER A STORM SEWER AND 12" OF VERTICAL
SEPARATION CANNOT BE OBTAINED, SUPPORTS
SHALL BE PROVIDED FOR THE STORM SEWER.
WHEN SEWER IS SDR 35 PVC BEDDING SHALL BE
IN ACCORDANCE WITH DETAIL #S-4



SEWER CROSSING BELOW STORM SEWER
NOT TO SCALE
(GREENVILLE UTILITIES STANDARD DETAIL S-11, REVISED 3-12-99)

PROJECT REFERENCE NO. U-5875		SHEET NO. UC-3E	
DESIGNED BY: SSD			
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:		UTILITY CONSTRUCTION PLANS ONLY	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION

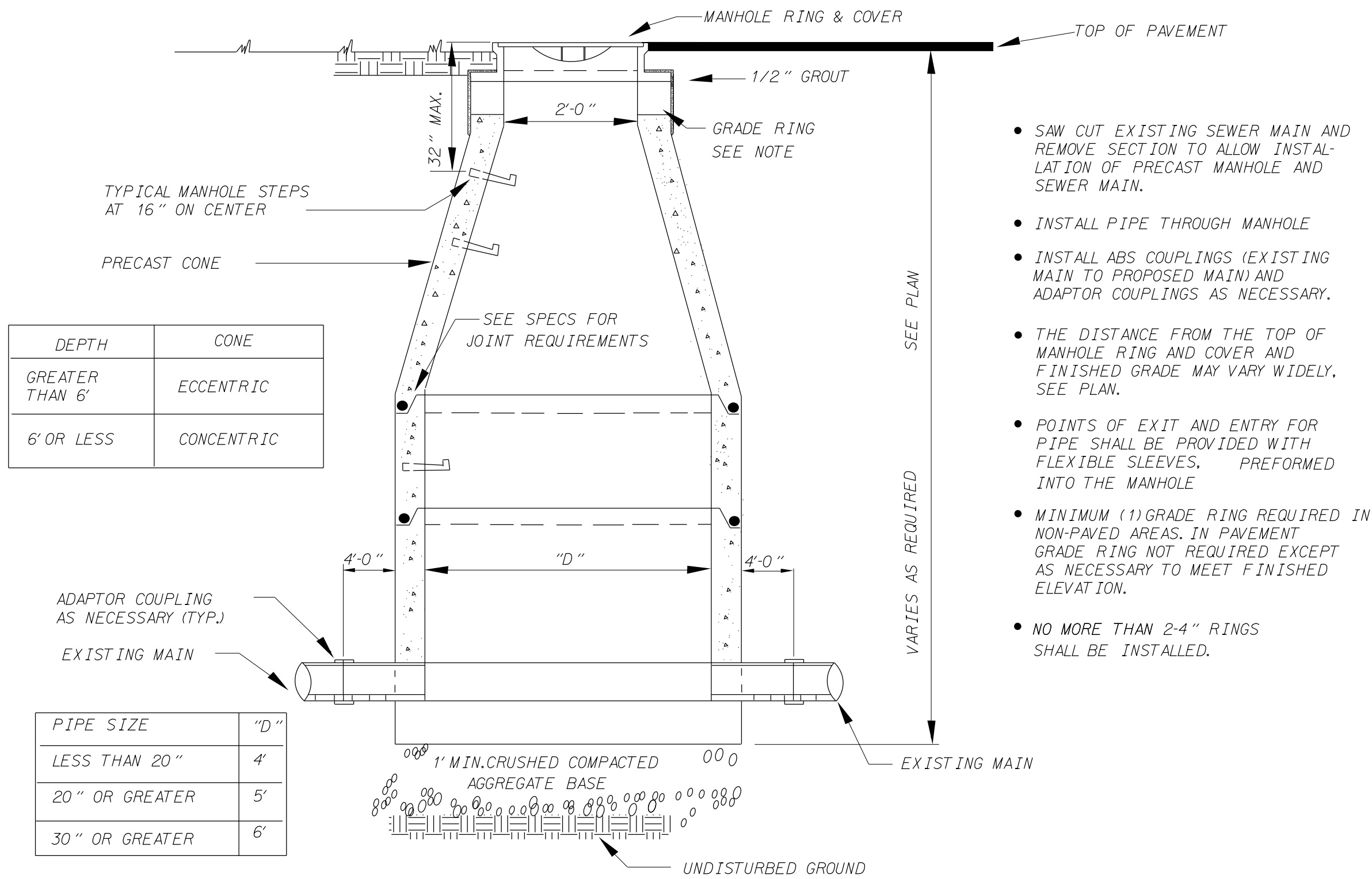
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GREENVILLE UTILITIES COMMISSION PROJECT SPECIFIC DETAILS: SEWER



PRECAST MANHOLE INSTALLATION OVER EXISTING SEWER MAIN

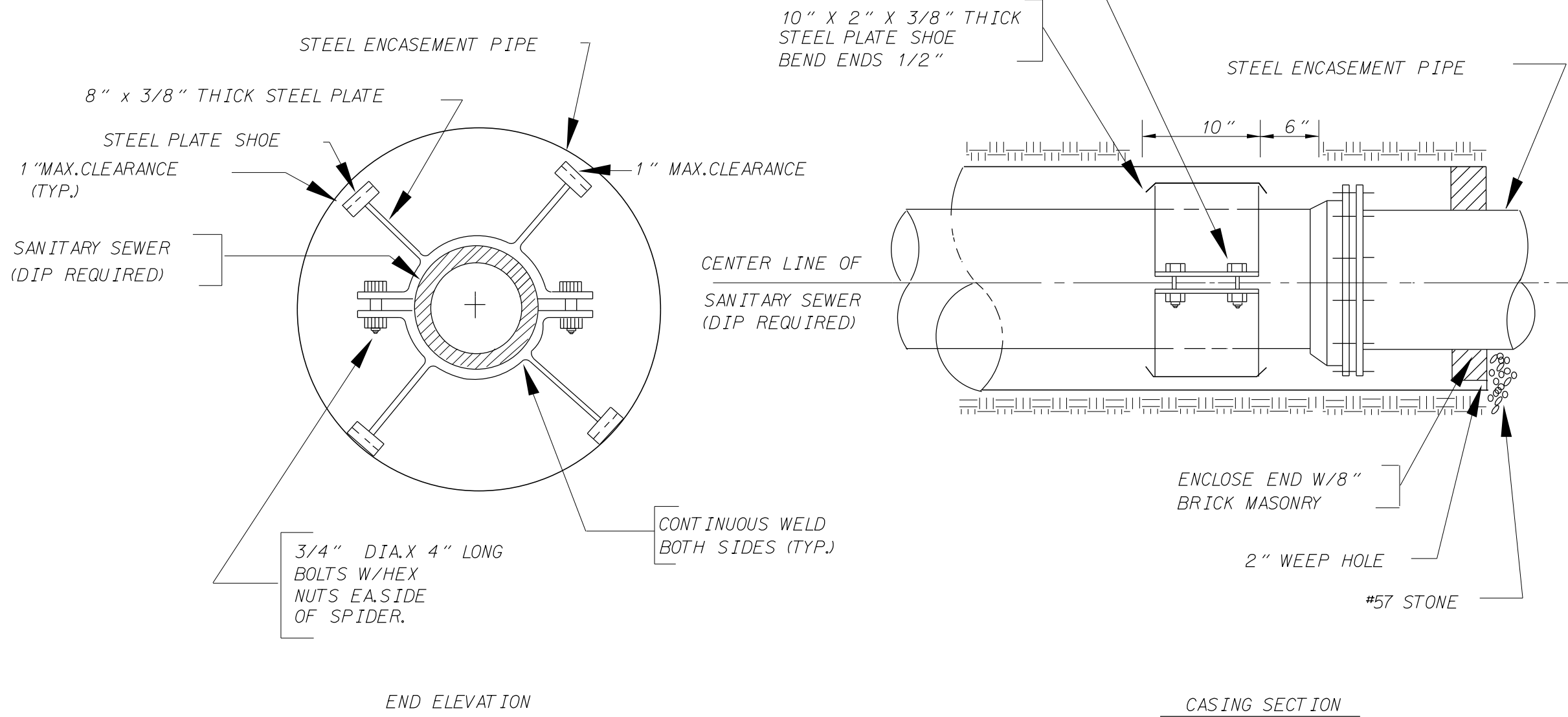
NOT TO SCALE

(GREENVILLE UTILITIES STANDARD DETAIL S-7, REVISED 3-12-99)

NOTE:

• ENTIRE SPIDER ASSEMBLY TO BE BITUMINOUS COATED AFTER FABRICATION.

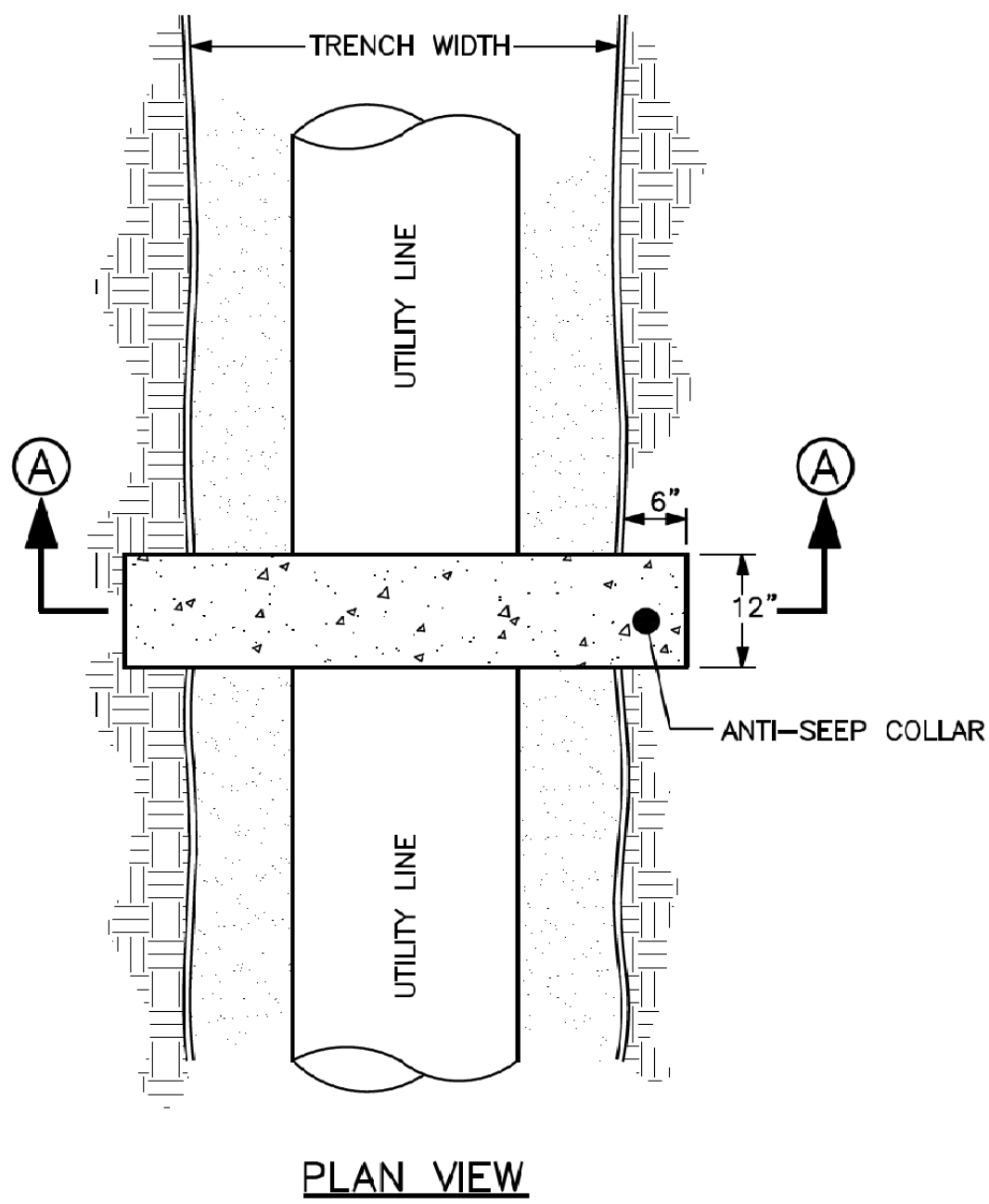
• STEEL ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH DESIGN PLANS - ALL REVISIONS OR MODIFICATIONS REQUIRE PRIOR APPROVAL.



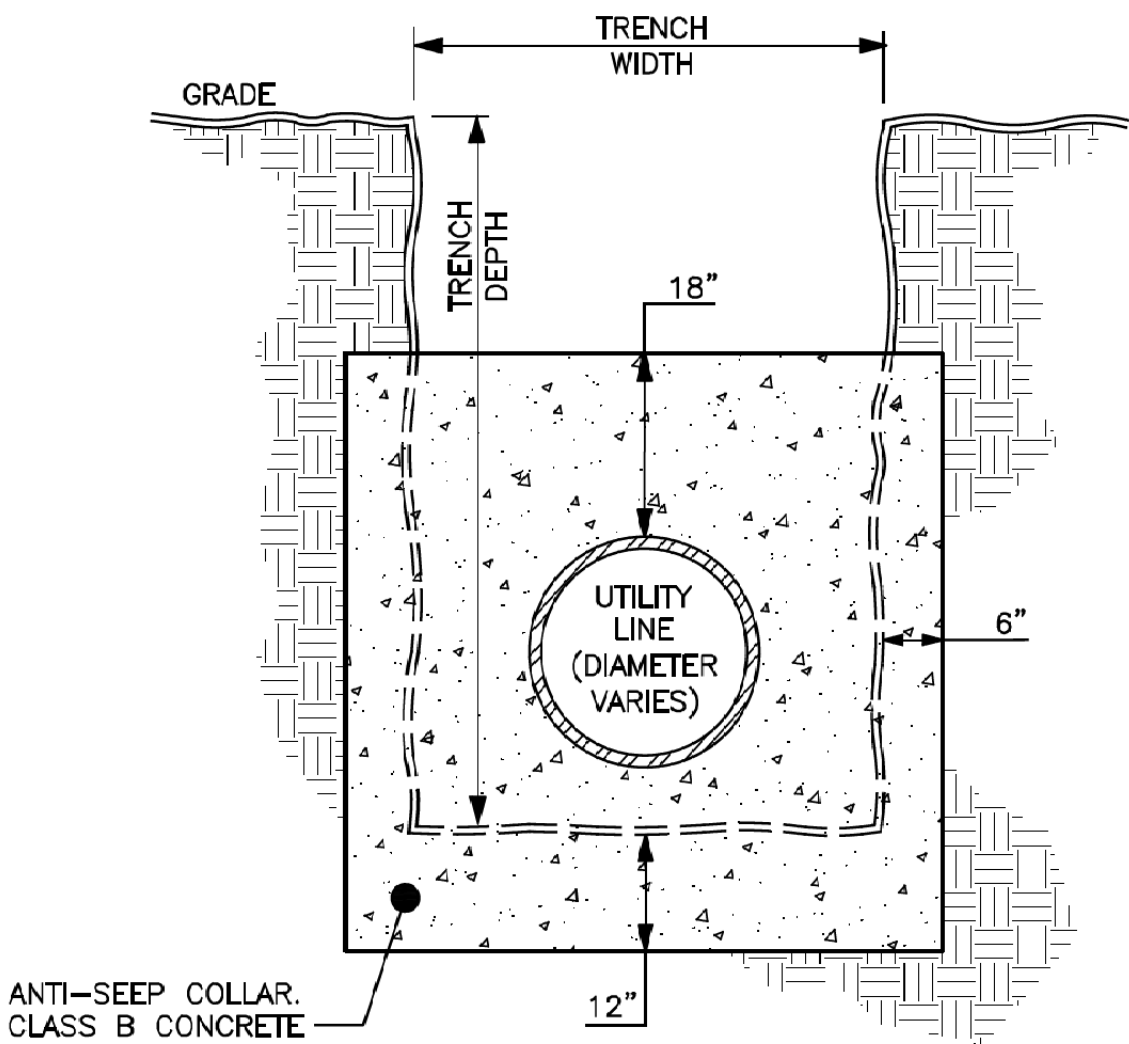
SANITARY SEWER ENCASEMENT DETAIL

NOT TO SCALE

(GREENVILLE UTILITIES STANDARD DETAIL S-12, REVISED 3-12-99)



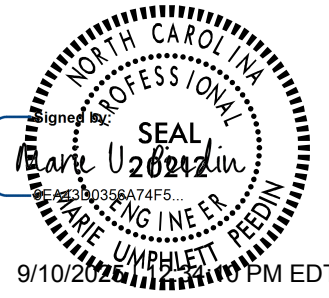
PLAN VIEW



SECTION A-A

ANTI-SEEP COLLAR

NOT TO SCALE

PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-3F	
DESIGNED BY: SSD			
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
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UTILITY CONSTRUCTION

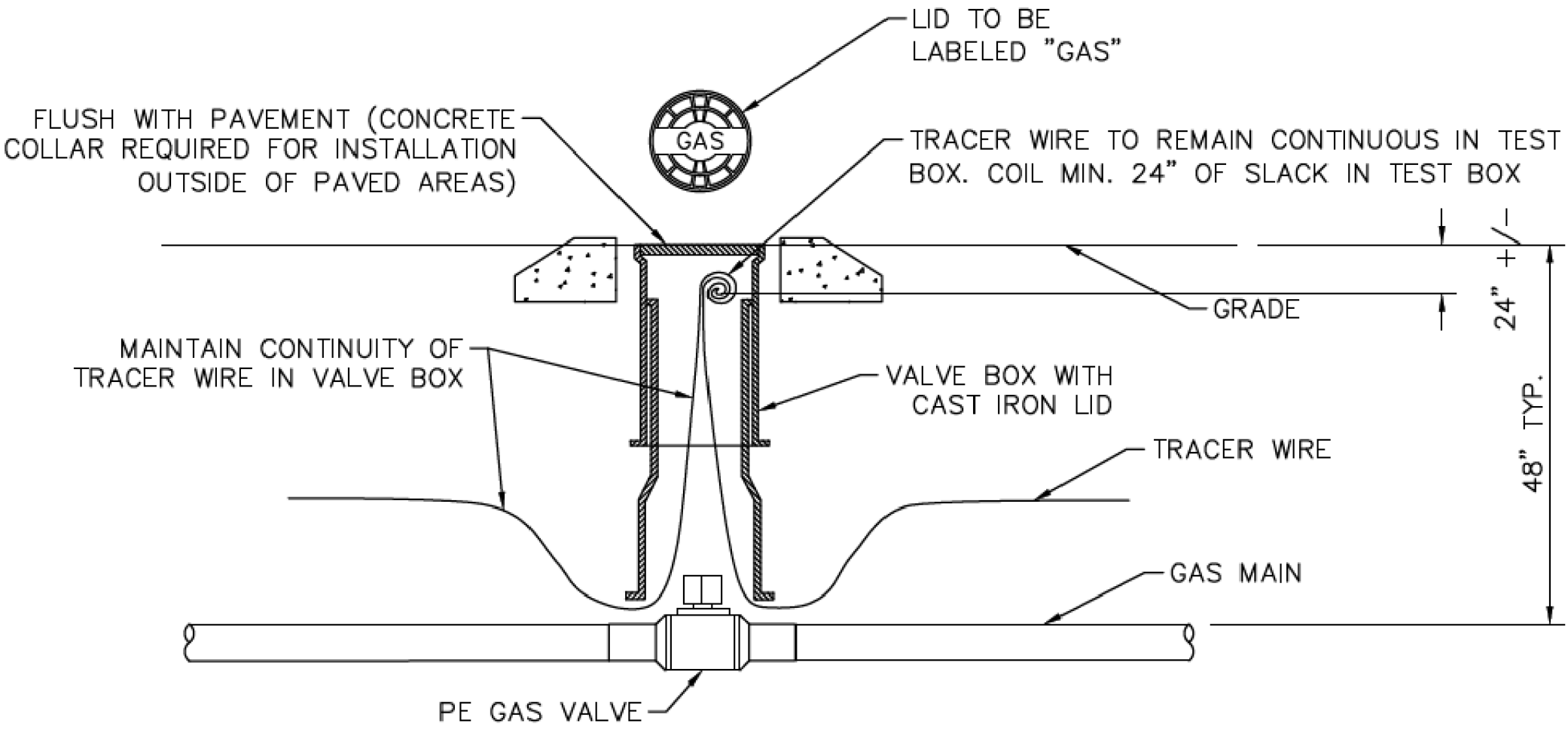
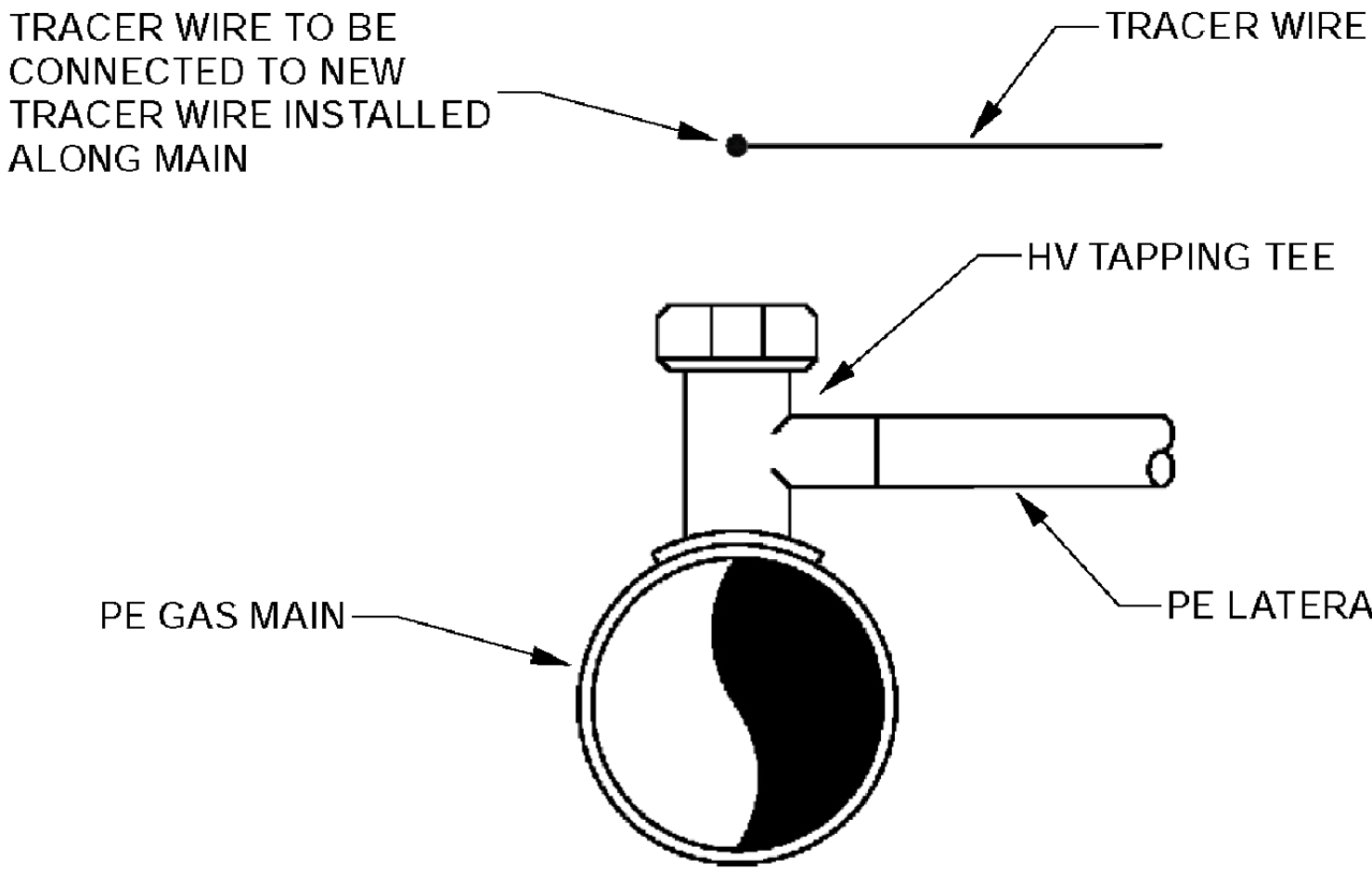
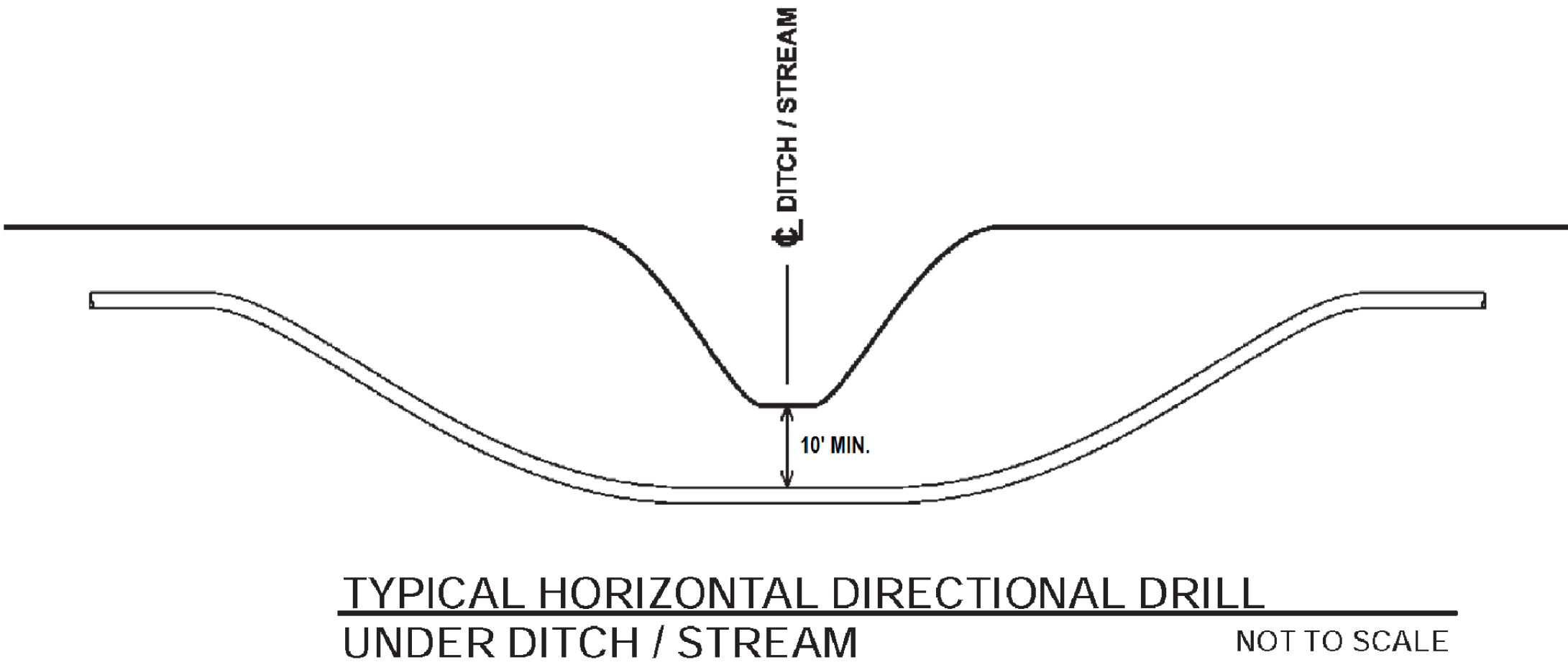
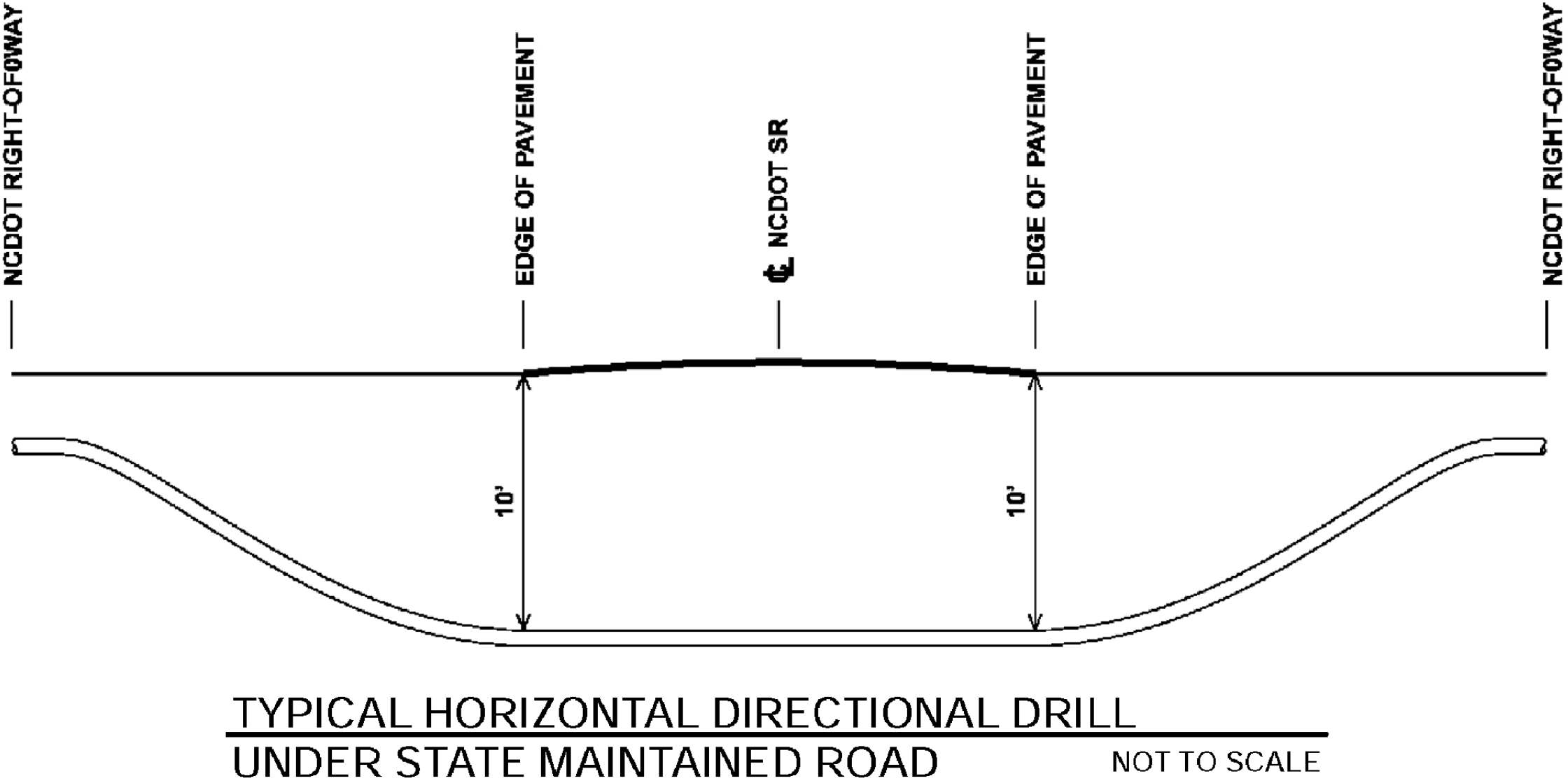
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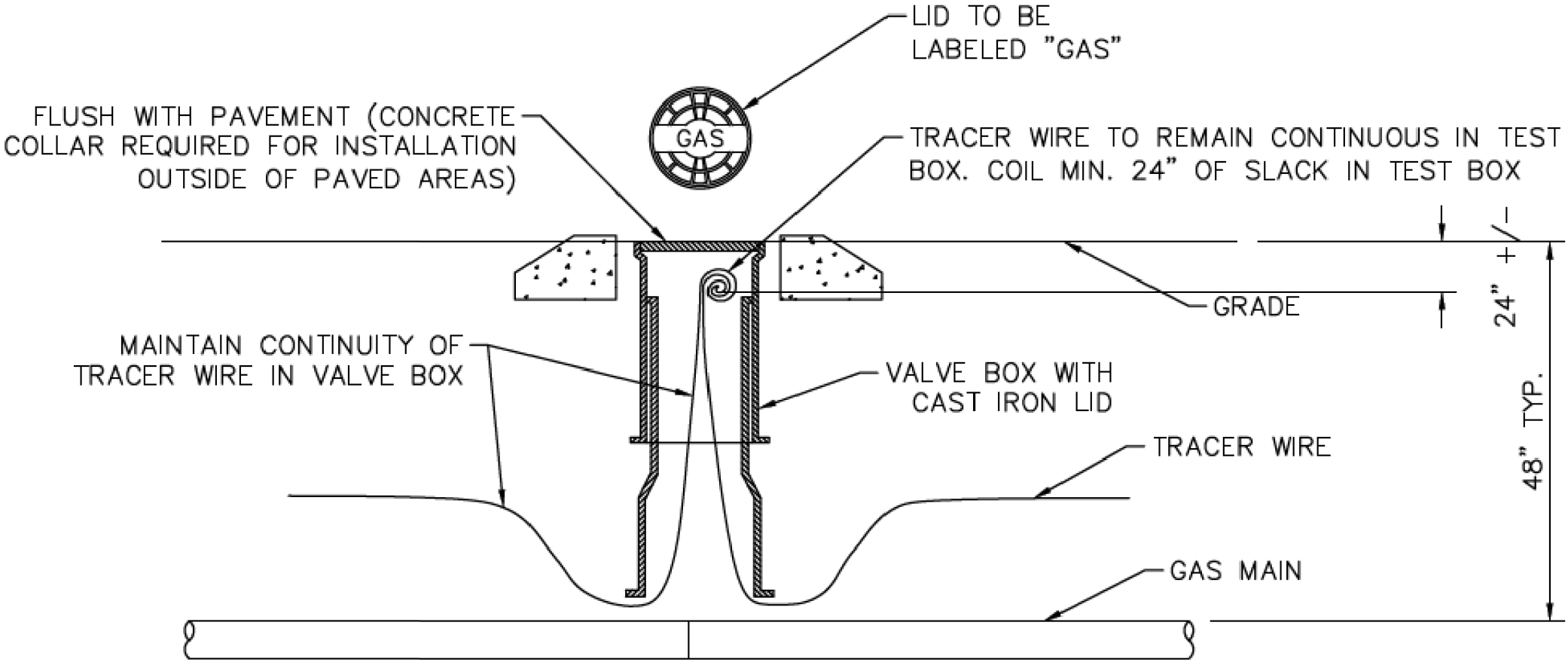
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GREENVILLE UTILITIES COMMISSION PROJECT SPECIFIC DETAILS: GAS

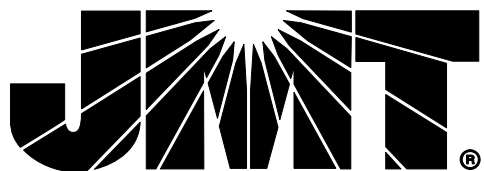
PROJECT REFERENCE NO.		SHEET NO.
U-5875		UC-3G
DESIGNED BY:	SSD	SEAL 9/10/2021 9/10/2021 10:05 PM EDT
DRAWN BY:	ND	
CHECKED BY:	JDN	
APPROVED BY:	MUP	
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



PLASTIC VALVE INSTALLATION DETAIL
N.T.S.

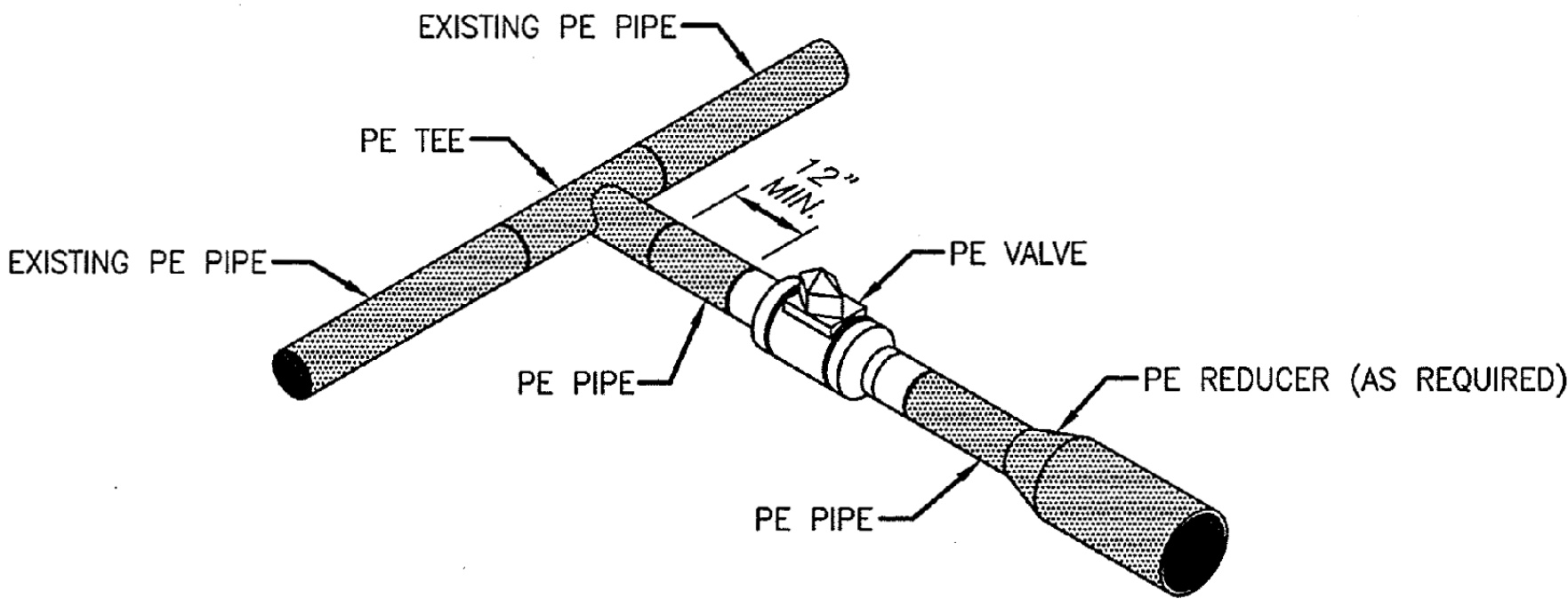


LOCATION BOX DETAIL
N.T.S.

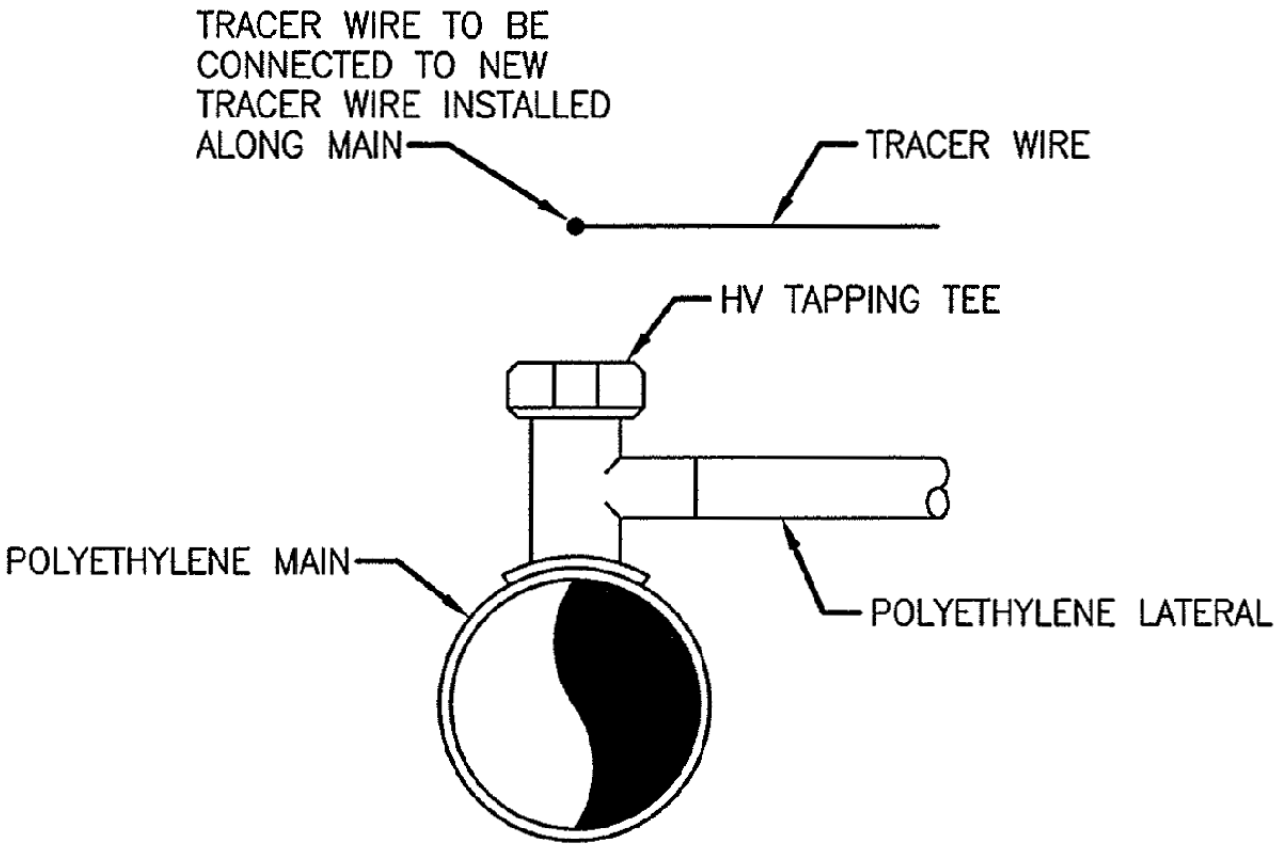


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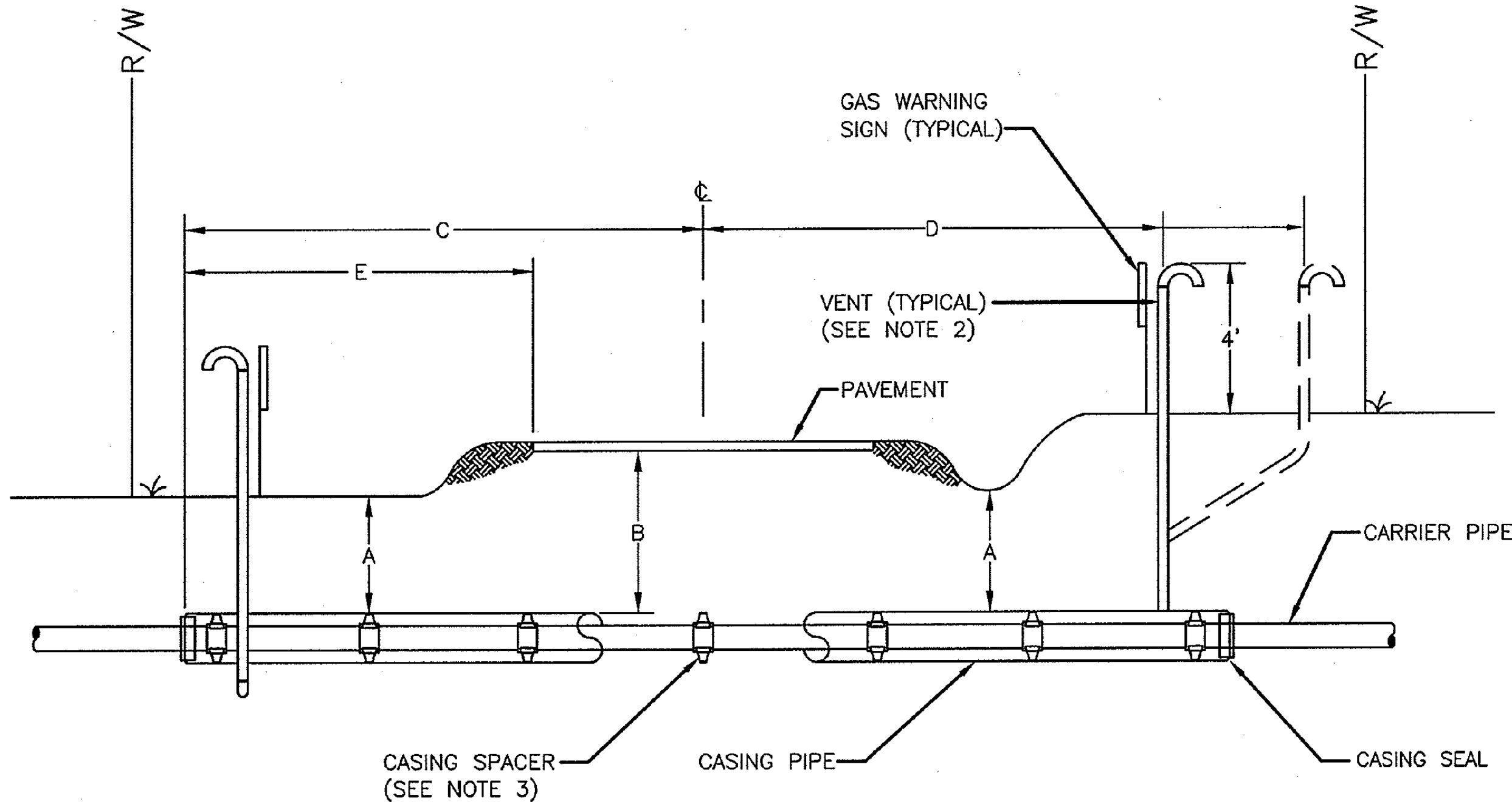
GREENVILLE UTILITIES COMMISSION PROJECT SPECIFIC DETAILS: GAS



**TYPICAL POLYETHYLENE LATERAL
CONNECTION INSTALLATION** NOT TO SCALE



**TYPICAL POLYETHYLENE LATERAL
SERVICE CONNECTION INSTALLATION**
NOT TO SCALE



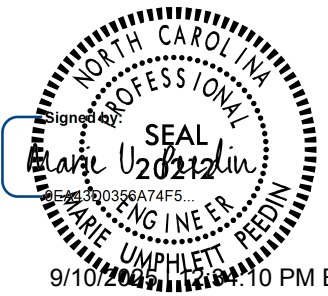
GENERAL NOTES:

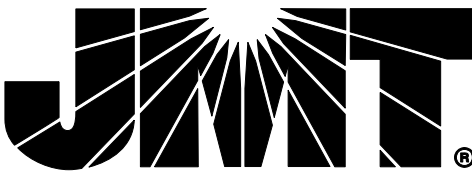
1. CASING FOR EACH CROSSING SHALL BE WELDED INTO ONE CONTINUOUS LENGTH.
2. ALL VENT CONNECTIONS SHALL BE WELDED. COUPLINGS SHALL NOT BE ALLOWED.
3. CASING SPACERS ARE TO BE PLACED A MAXIMUM OF 0'-6" FROM EACH END OF THE CASING AND A MAXIMUM OF 10'-0" ON CENTER FOR THE REMAINING LENGTH OF THE CASING.

DIMENSIONS:

- FOR ROADWAY CROSSINGS**
- "A" = FOUR (4) FEET MINIMUM
 - "B" = FOUR (4) FEET MINIMUM
 - "C" = AS SHOWN ON PLANS
 - "D" = TO THE RIGHT-OF-WAY LINE
 - "E" = MINIMUM 5' FROM END OF CASING TO EDGE OF PAVEMENT

CASING DETAIL
NOT TO SCALE

PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-3H	
DESIGNED BY: SSD		UTILITY CONSTRUCTION PLANS ONLY	
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		9/10/2011 4:10 PM EDT	
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UTILITY CONSTRUCTION			
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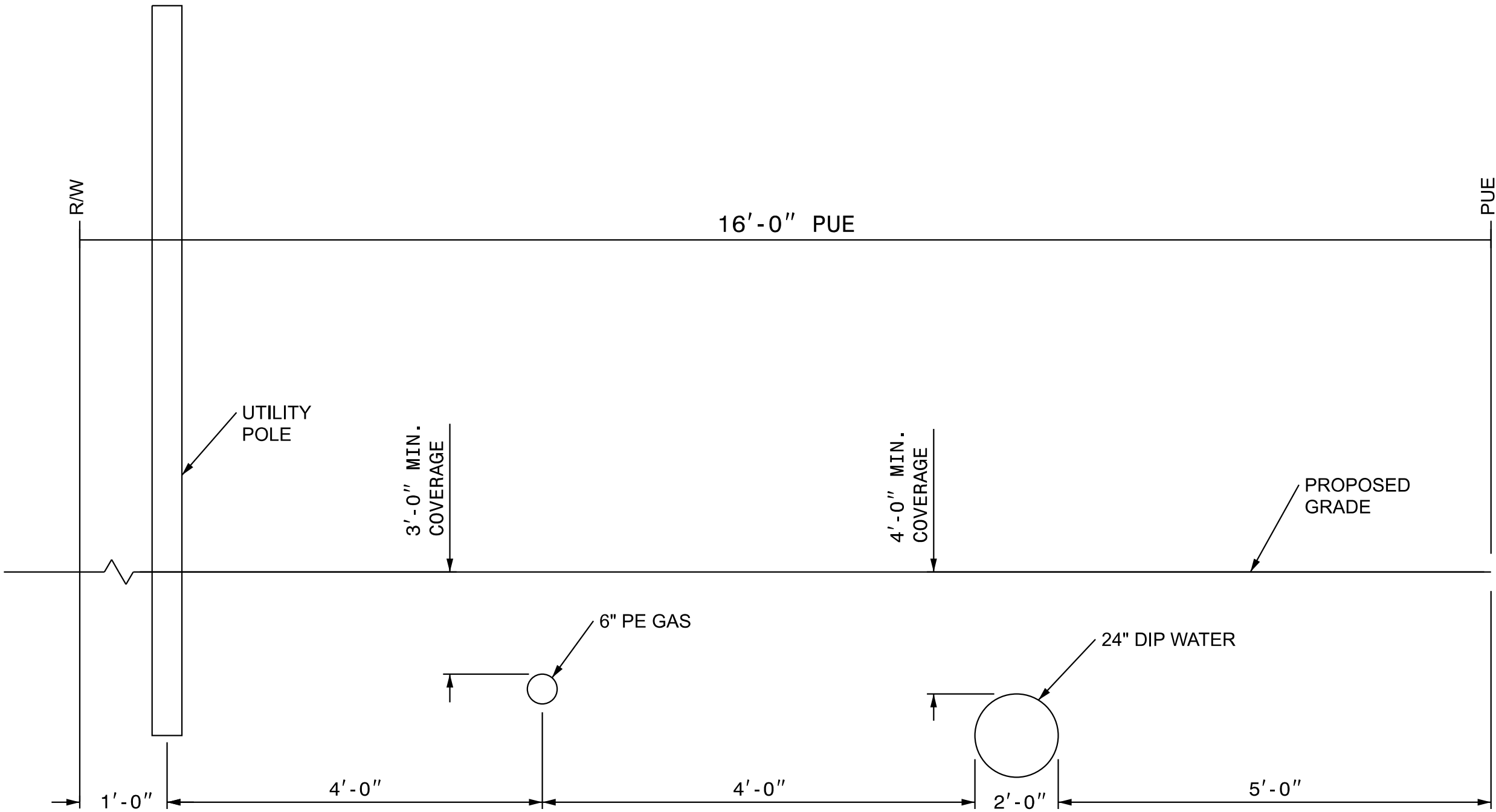
GREENVILLE UTILITIES COMMISSION

PROJECT SPECIFIC DETAILS: WATER AND GAS

PROJECT REFERENCE NO.		SHEET NO.	
U-5875		UC-3I	
DESIGNED BY: SSD		SEAL U 2021 9/10/2021 10:10 PM EDT	
DRAWN BY: ND			
CHECKED BY: JDN			
APPROVED BY: MUP			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

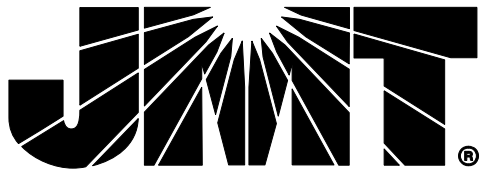
DOCUMENT NOT CONSIDERED FINAL
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PUE TYPICAL CROSS SECTION

NOT TO SCALE

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PITT COUNTY

SEE 80-4B
FOR -WL-3A-

WATER LINE
DIP, CL50

4" AIR RELEASE VALVE
WL-1- STA. 2+80.00
SEE SHEET UC-3B
FOR DETAIL

TOP SCALE: HORIZ. 1" = 50'
 BOTTOM SCALE: VERT. 1" = 5'

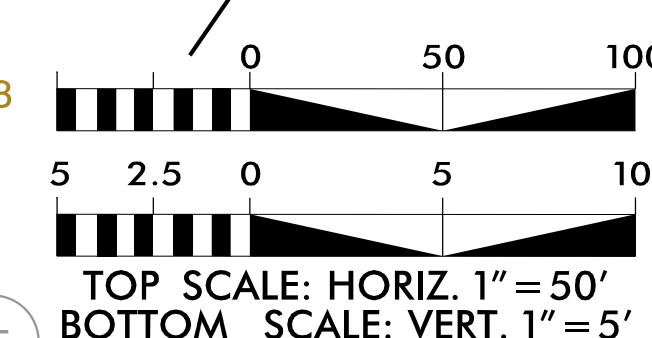


WATER LINE -WL-1- PROFILE



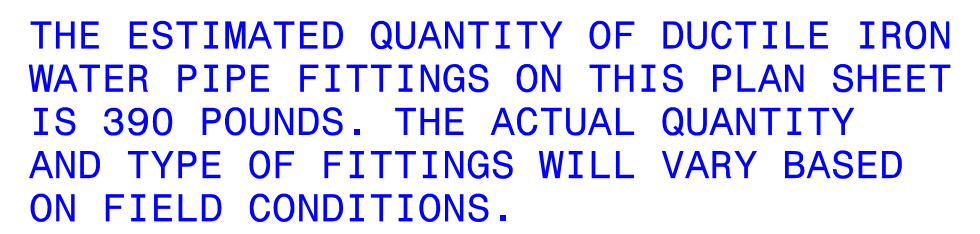
**DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETE**

PITT COUNTY



GAS LINE -GL-1- PROFILE

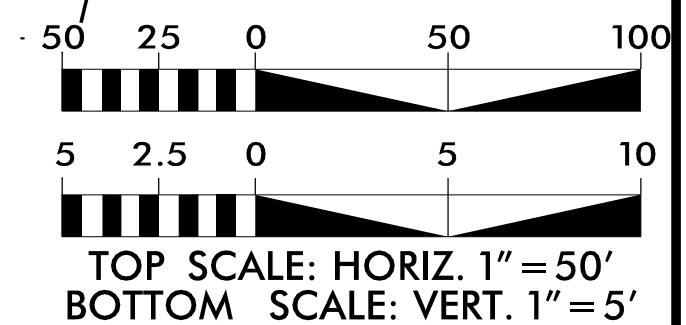




THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 11,770 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



5/6/2025 9:00:06 AM
...\\U-5875_UTL_UC-5_W AND G.dgn





PITT COUNTY

PROJECT REFERENCE NO.
U-5875

SHEET NO.
UC-6

DESIGNED BY: SSD

DRAWN BY: ND

CHECKED BY: JDN

APPROVED BY: MUP

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

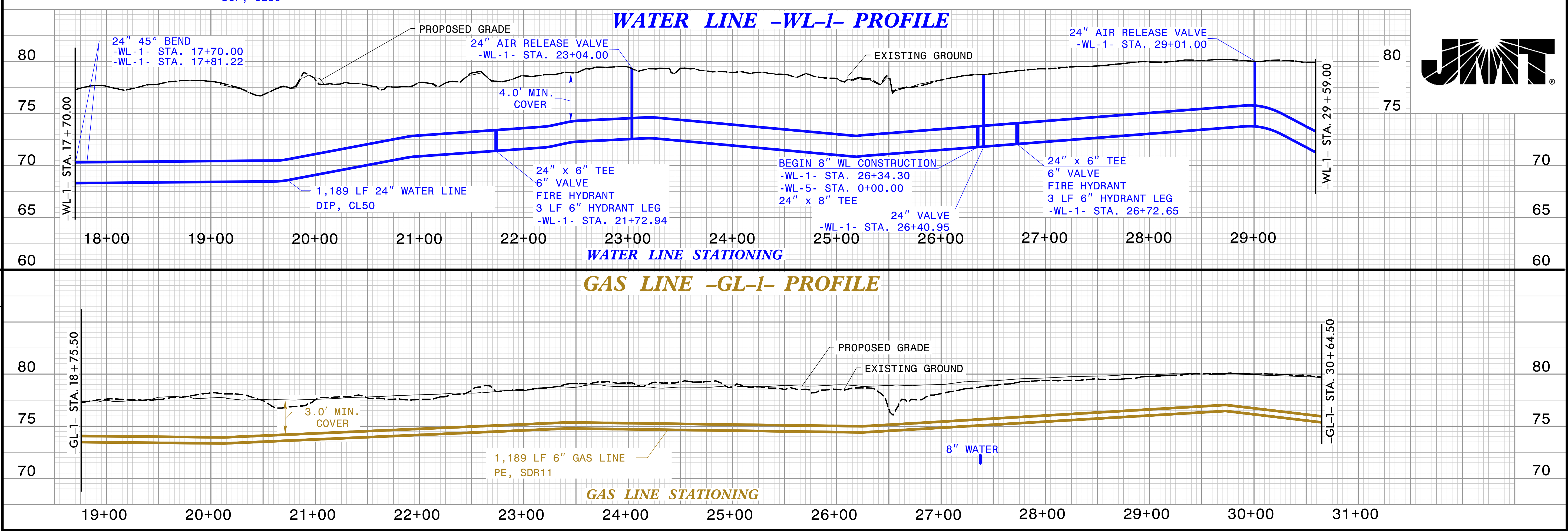
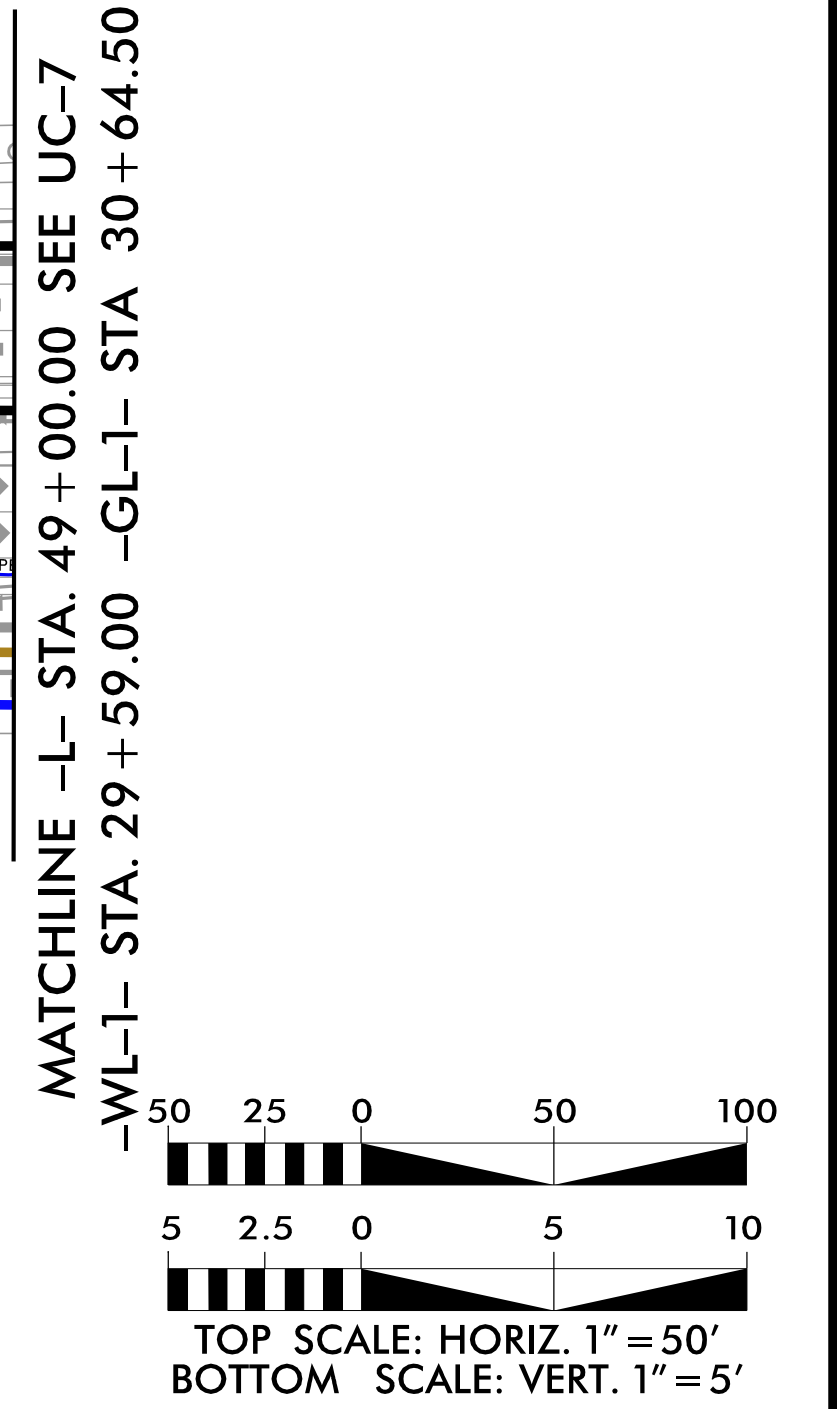
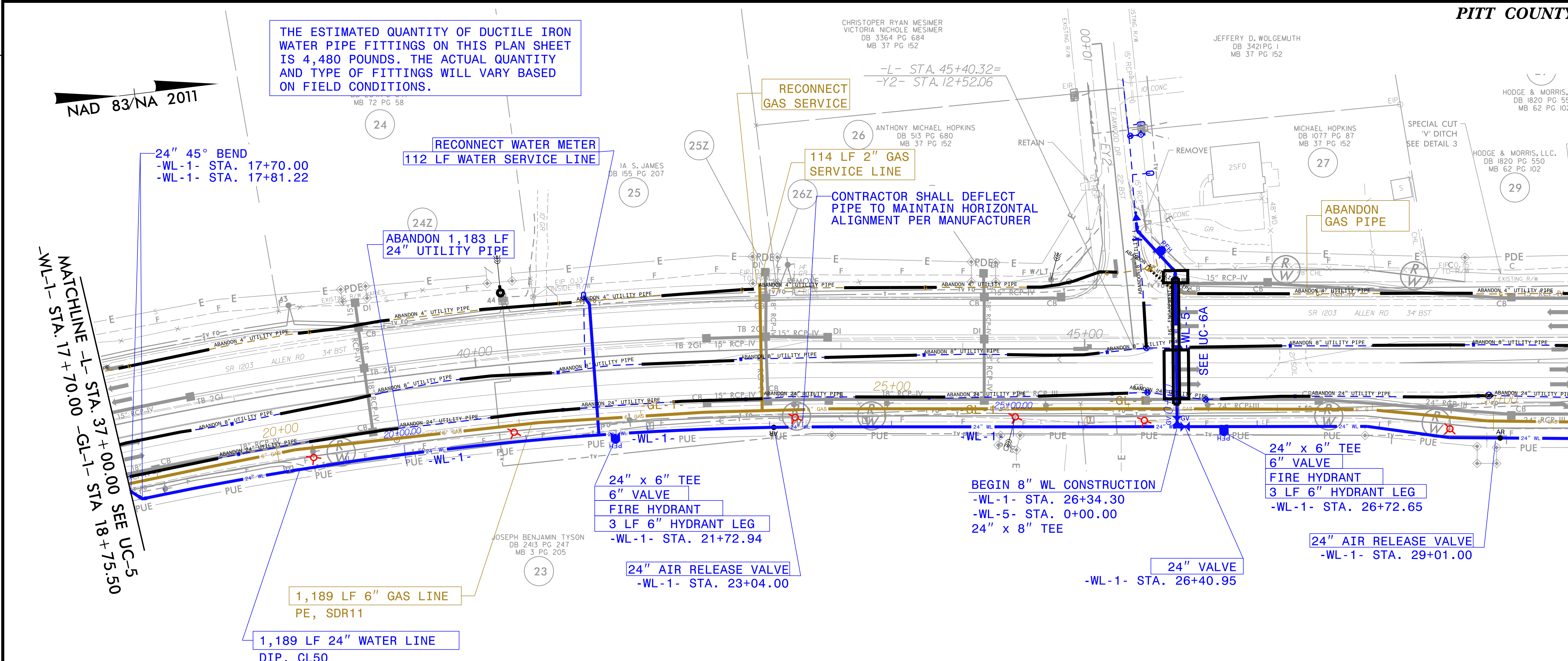
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION
PLANS ONLY

SEAL
U. 06212
9/10/2024
MADE ENGINEER
REGISTERED

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

UTILITY CONSTRUCTION

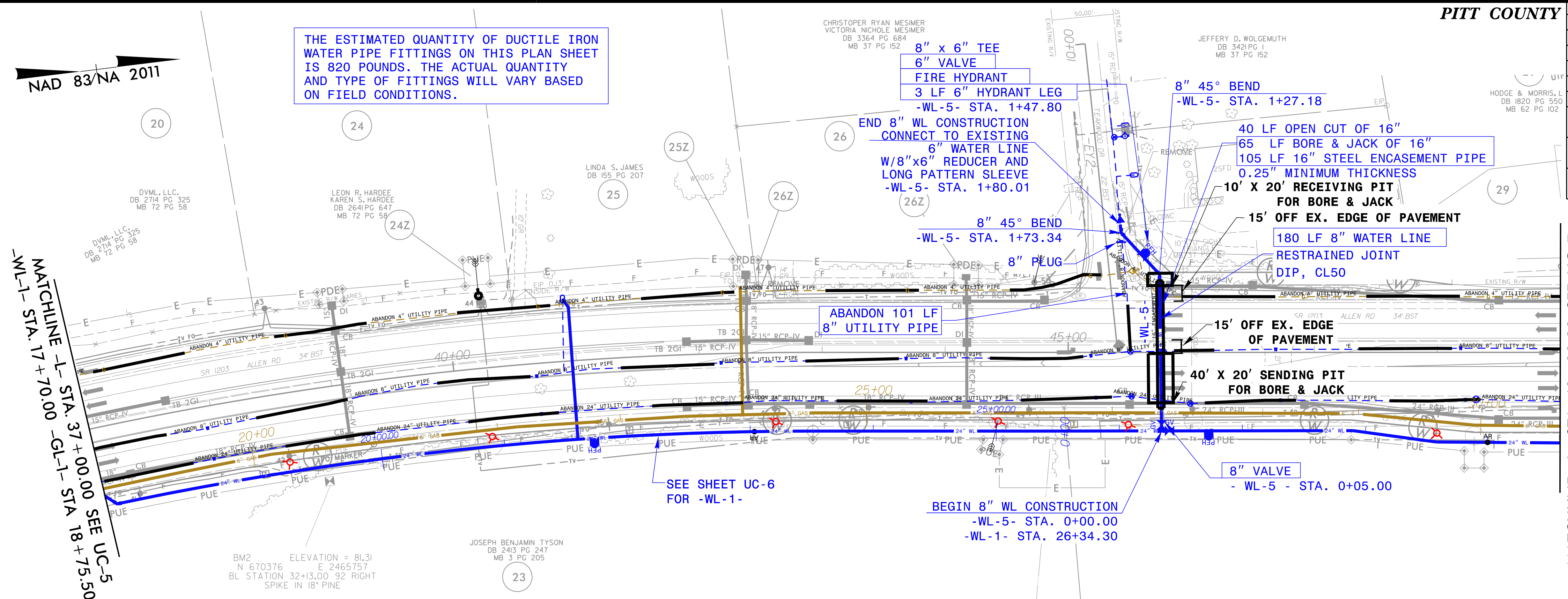


9/10/2025 9:14:05 AM
... User: jdominguez
AND G.dgn

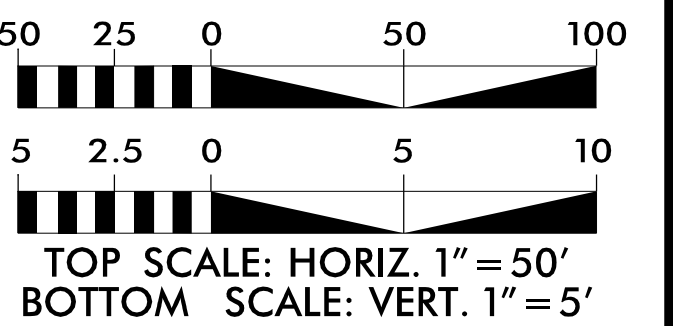
DESIGNED BY: SSD	
DRAWN BY: ND	
CHECKED BY: JDN	
APPROVED BY: MUP	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

**DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED**

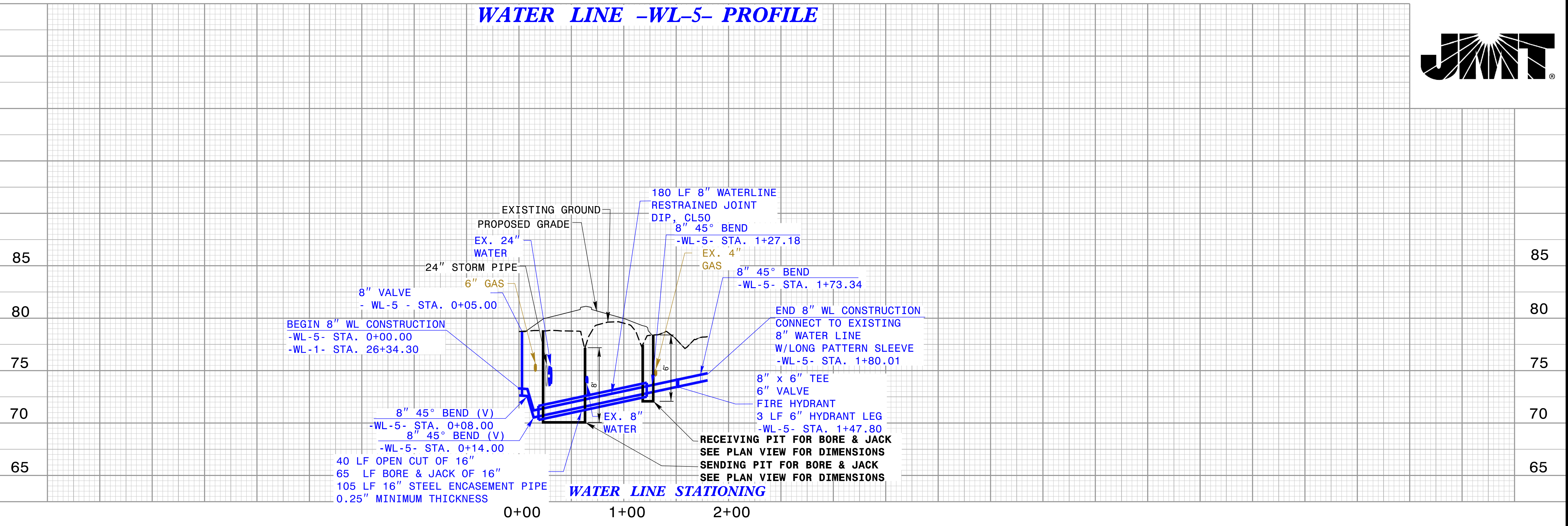
UTILITY CONSTRUCTION



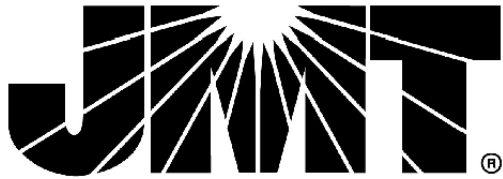
MATCHLINE -L- STA. 49+00.00 SEE UC-7
 VL-1- STA. 29+59.00 -GL-1- STA 30+64.50

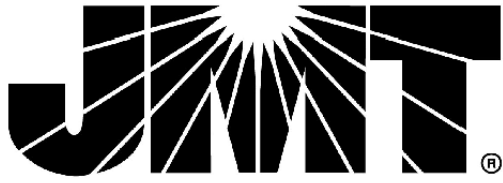


WATER LINE -WL-5- PROFILE

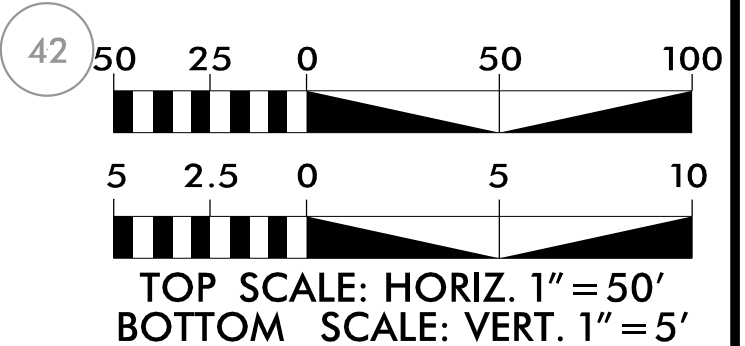


8/2/2024 2:07:28 PM
....\U-5875_UTL_UC-6A_W AND G.dgn
User:nndominguez



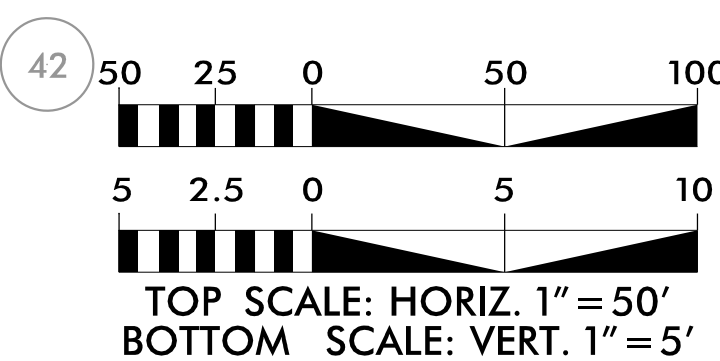


-WL1- STA. 56 + 37.50
-GL1- STA. 57 + 41.40



A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "MARIE UMPHRETT PEEDAR" at the bottom. Inside the ring, the words "PROFESSIONAL" and "ENGINEER" are written in a semi-circle. In the center, the word "SEAL" is printed above the handwritten signature "Marie U. Peadar". Below the signature, the license number "6674FS" is printed.

WATCHLINE -L- STA. 76 + 00.00 SEE UC-9
-WL-1- STA. 56 + 37.50
-GL-1- STA. 57 + 41.40



1/10/2025 9:34:17 AM
 ..\U-5875_UTL_UC-8A_W AND G.dgn
 User:nnndominguez

