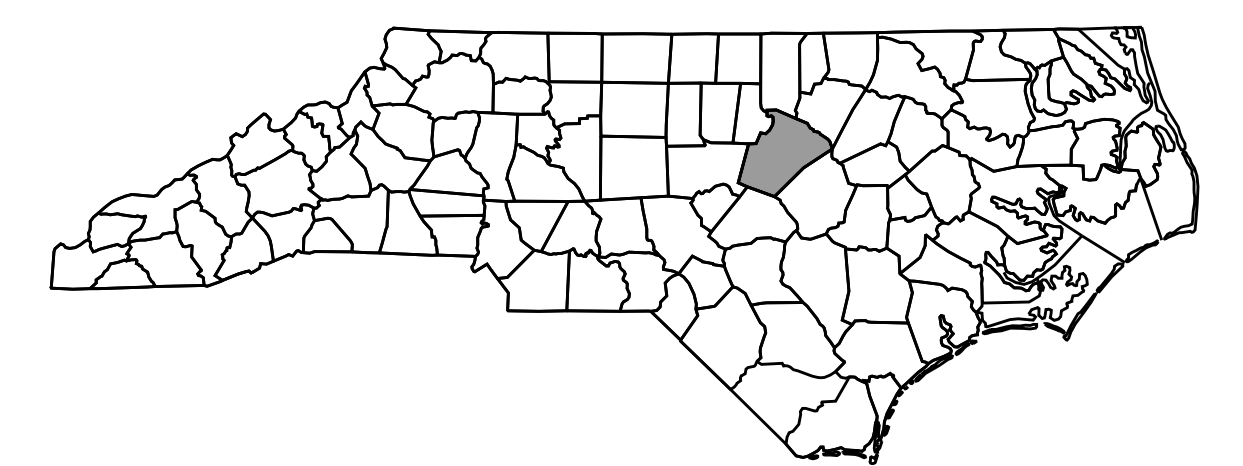


09/28/99

T.I.P. NO.	SHEET NO.
U-5746	UC-1

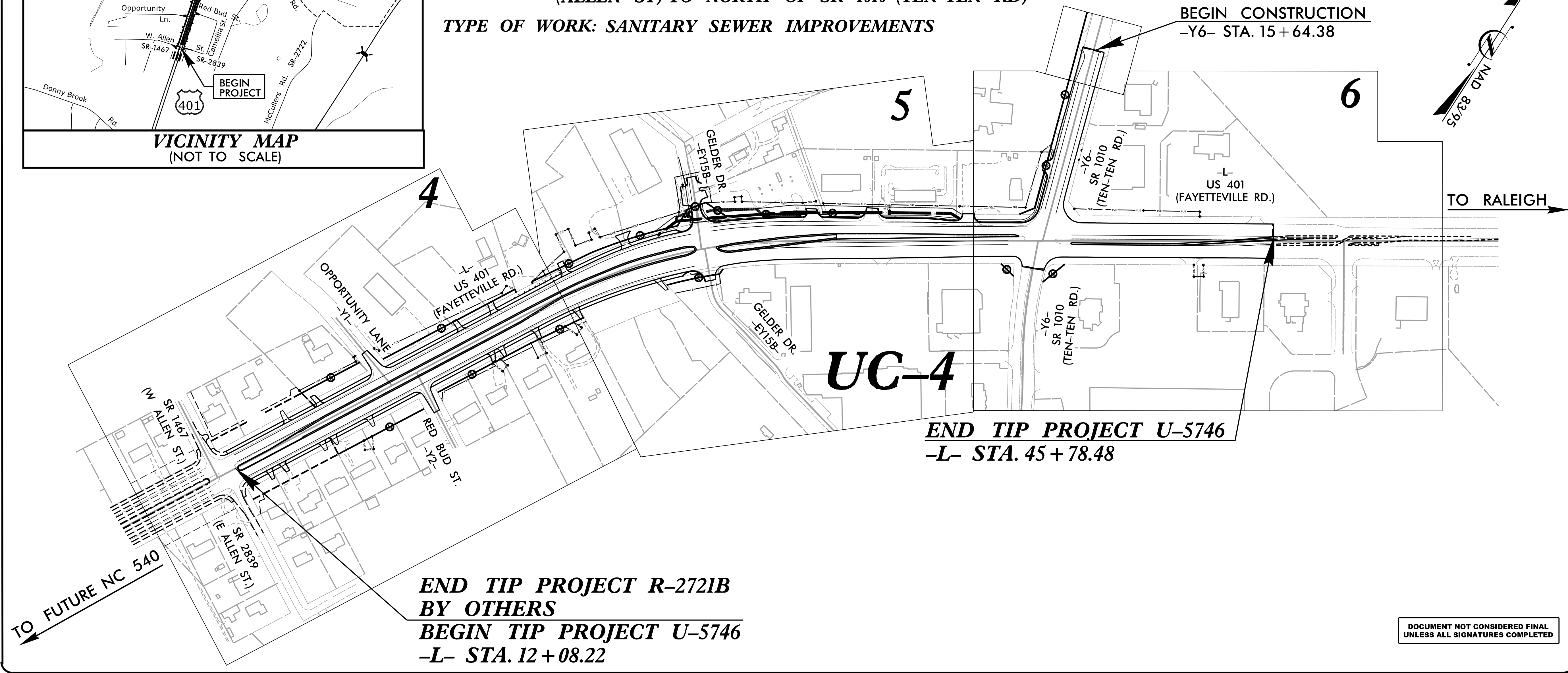
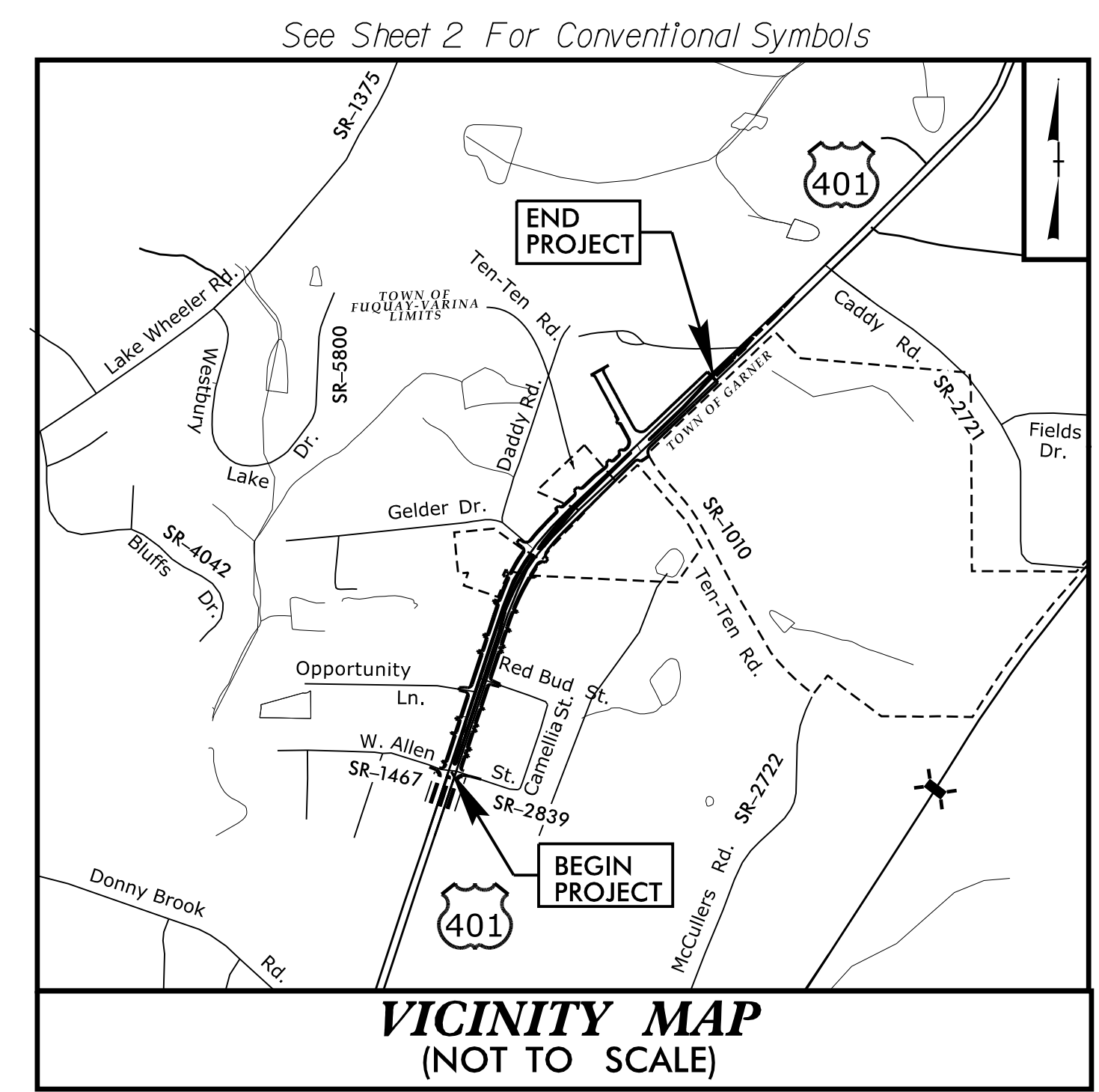


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS WAKE COUNTY

LOCATION: US 401 (FAYETTEVILLE RD) FROM SR 1467/2839
(ALLEN ST) TO NORTH OF SR 1010 (TEN-TEN RD)
TYPE OF WORK: SANITARY SEWER IMPROVEMENTS

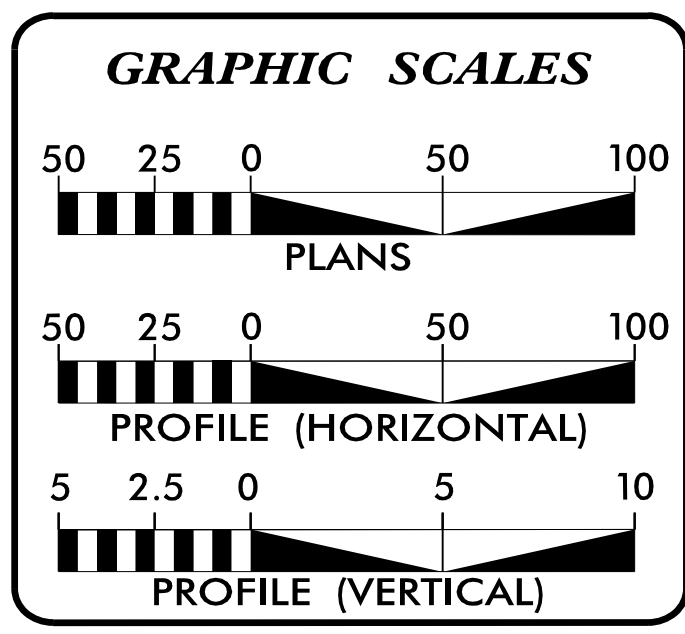
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DATE: 8/2/2024

8/2/2024
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INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3C	DETAILS
UC-4	PLAN SHEET
UC-5	PROFILE SHEET

**WATER AND SEWER
OWNER ON PROJECT**

(A) WATER - TOWN OF FUQUAY-VARINA PUBLIC UTILITIES DEPARTMENT

(B) SANITARY - TOWN OF FUQUAY-VARINA PUBLIC UTILITIES DEPARTMENT

PREPARED IN THE OFFICE OF

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

CASEY HARRIS PROJECT ENGINEER
JOE LANGSTON UTILITY ENGINEER
MATTHEW W WAIT UTILITY DESIGN ENGINEER

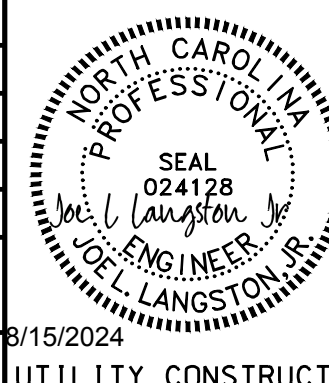

SEAL

8/15/2024

DIVISION OF HIGHWAYS
DIVISION 5
PROJECT DELIVERY UNIT
2612 N. DUKE STREET
DURHAM, NC 27704
PHONE: 919-317-4700
FAX: 919-317-4710

Beth Quinn, PE TEAM LEAD
Lamin Jah PROJECT MANAGER
Don Proper DIVISION 5 UTILITIES ENGINEER
James Swinson UTILITIES ENGINEER

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PROJECT REFERENCE NO. U-5746	SHEET NO. UC-2
DESIGNED BY:	
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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 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	
Water Main	
Encasement by Open Cut	
Encasement	

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

UTILITY CONSTRUCTION

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.	Well	
		Septic	

ABBREVIATIONS

BC	BACK OF CURB	FOD	FULL OF DEBRIS	RRS	RAILROAD SPIKE
B.H.	BUILDING HEIGHT	PB	PLAT BOOK	R/W	RIGHT-OF-WAY
BST	BITUMINOUS SURFACE TREATMENT	PG	PAGE	SE	SIGHT EASEMENT
CC	CURB CUT	PIN	TAX PARCEL ID NUMBER	S.F.	SQUARE FEET
CGF	COMBINED GRID FACTOR	POB	POINT OF BEGINNING	TW	TOP OF WALL
CH	CHORD	PVC	POLYVINYL CHLORIDE PIPE	(M)	MEASURED
CM	CONCRETE MONUMENT	RCP	REINFORCED CONCRETE PIPE	(R)	RECORDED INVERT ELEVATION
CMP	CORRUGATED METAL PIPE				
CONC.	CONCRETE				
DB	DEED BOOK				
DIP	DUCTILE IRON PIPE				
FFE	FINISHED FLOOR ELEVATION				

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

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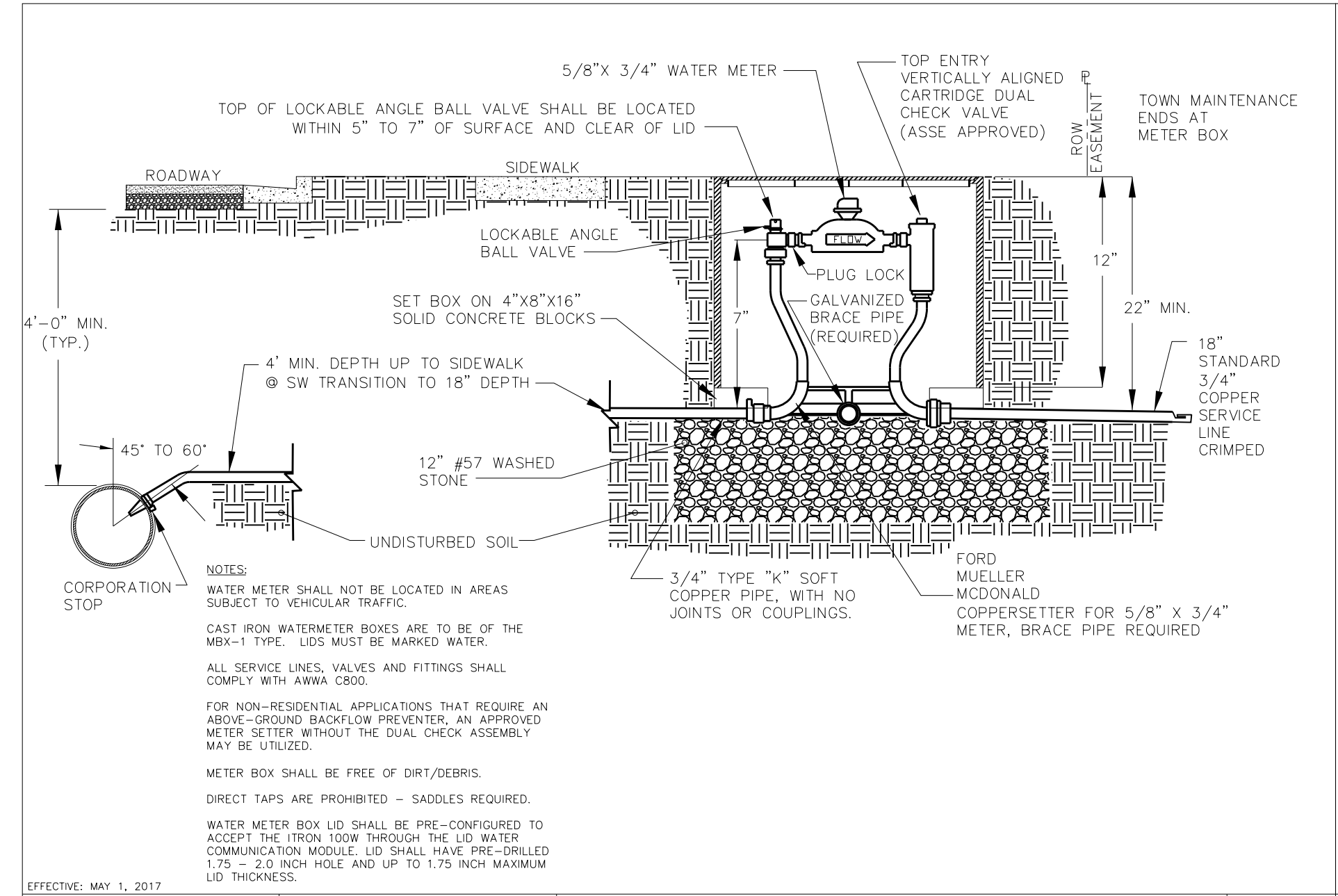
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DESIGNED BY:	
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REVISED BY:	8/15/2024
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UTILITIES ENGINEERING, SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

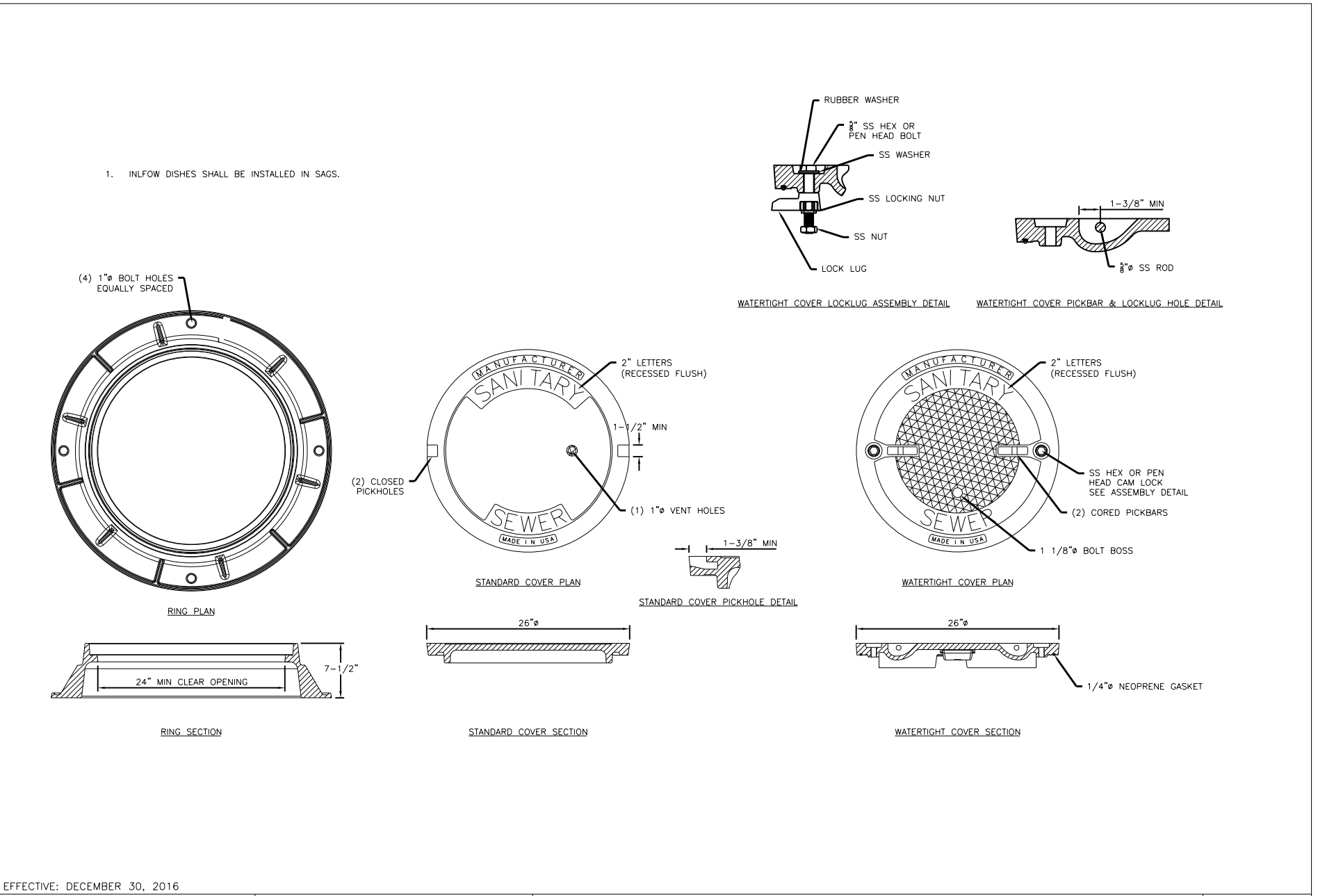
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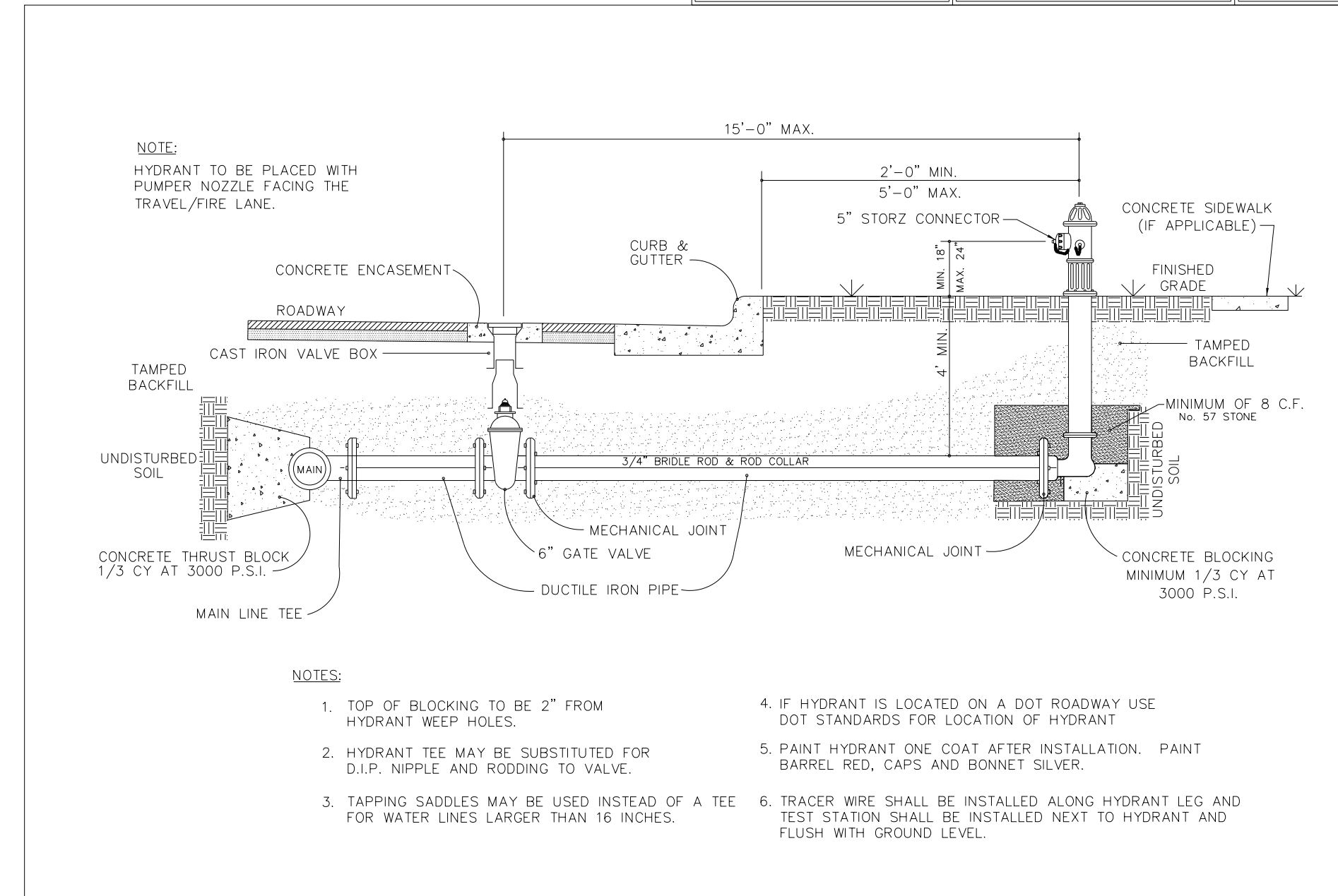
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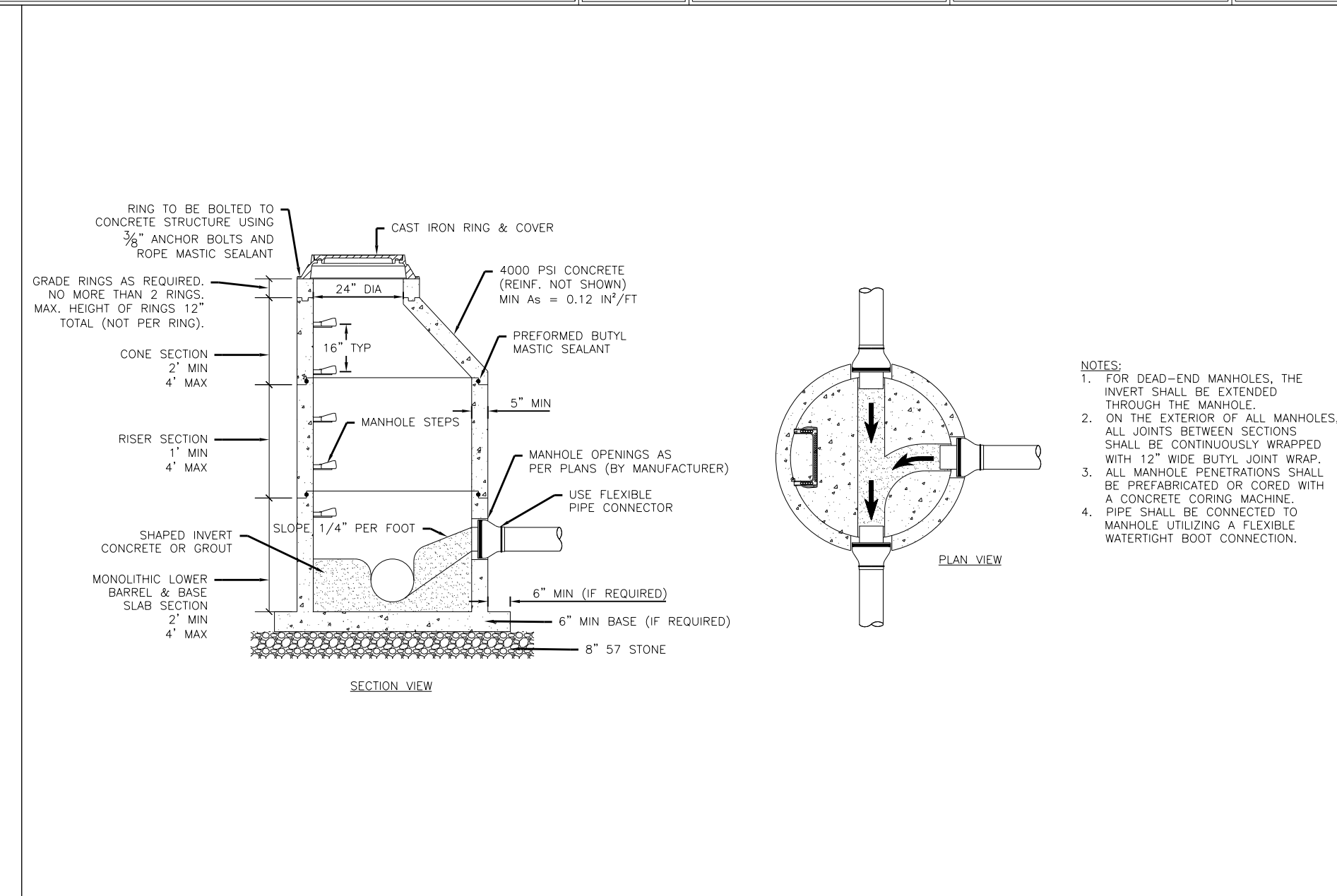
FUQUAY-VARINA TOWN OF FUQUAY-VARINA STANDARD DETAILS
3/4 INCH AND 1 INCH WATER SERVICE AND METER BOX INSTALLATION
EFFECTIVE: MAY 1, 2017
DETAIL No. 120.02
SHEET 01 of 01



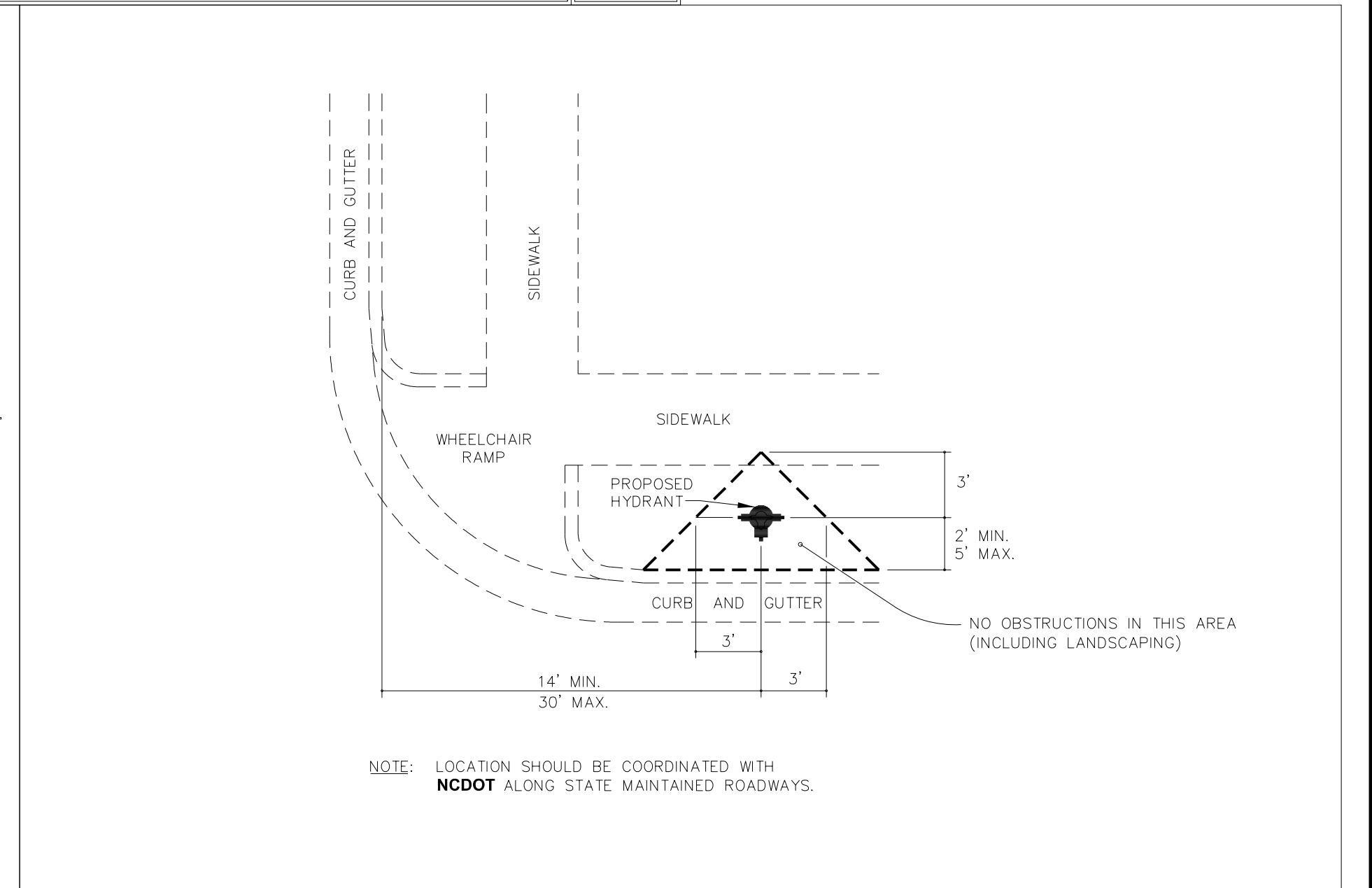
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MANHOLE RING AND COVER
EFFECTIVE: DECEMBER 30, 2016
DETAIL No. 150.05
SHEET 01 of 01



FUQUAY-VARINA TOWN OF FUQUAY-VARINA STANDARD DETAILS
HYDRANT INSTALLATION
EFFECTIVE: MAY 1, 2017
DETAIL No. 120.07
SHEET 01 of 01



FUQUAY-VARINA TOWN OF FUQUAY-VARINA STANDARD DETAILS
PRECAST CONCRETE MANHOLE
EFFECTIVE: DECEMBER 30, 2016
DETAIL No. 150.04
SHEET 01 of 01



FUQUAY-VARINA TOWN OF FUQUAY-VARINA STANDARD DETAILS
HYDRANT LOCATION
EFFECTIVE: DECEMBER 30, 2016
DETAIL No. 120.08
SHEET 01 of 01

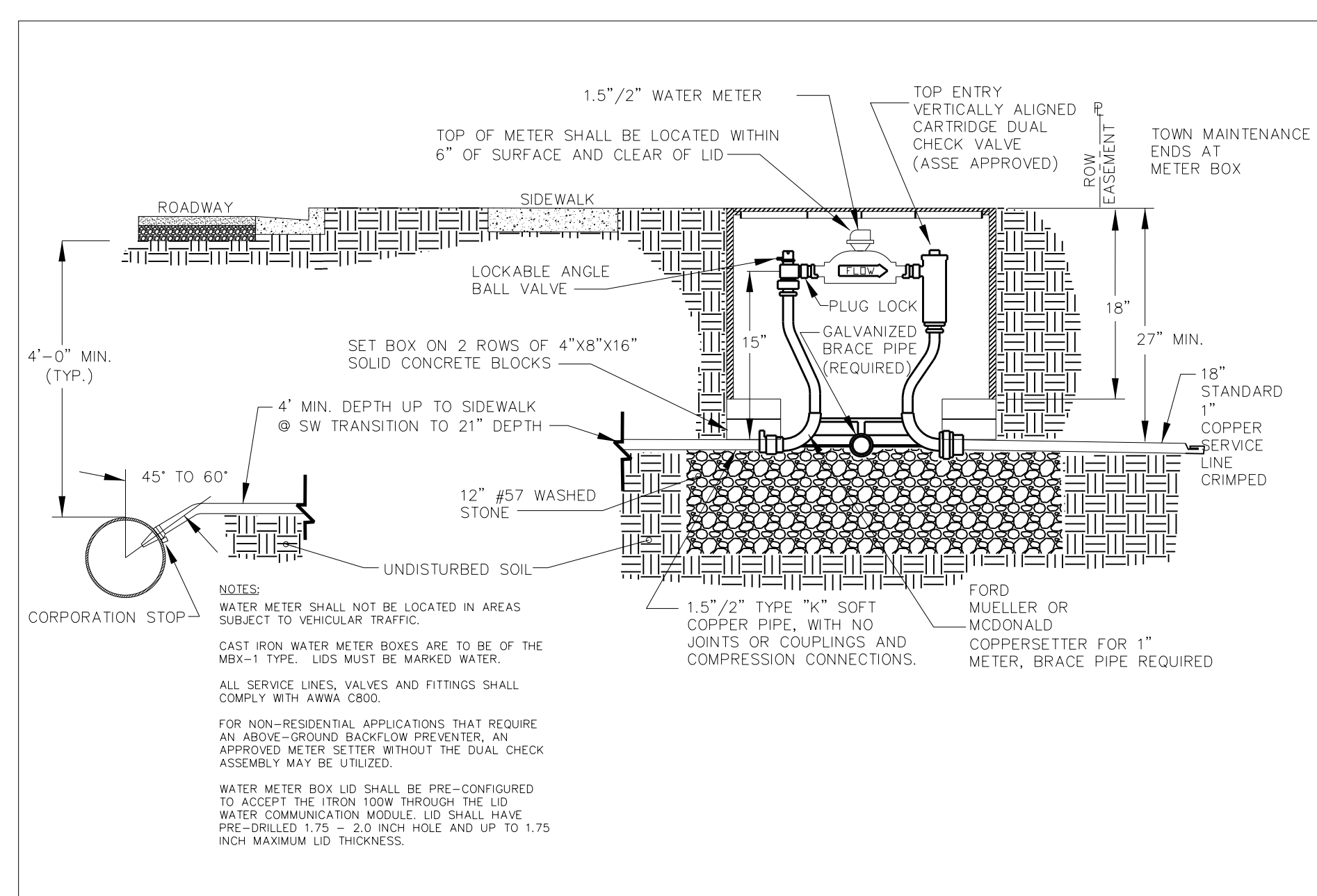
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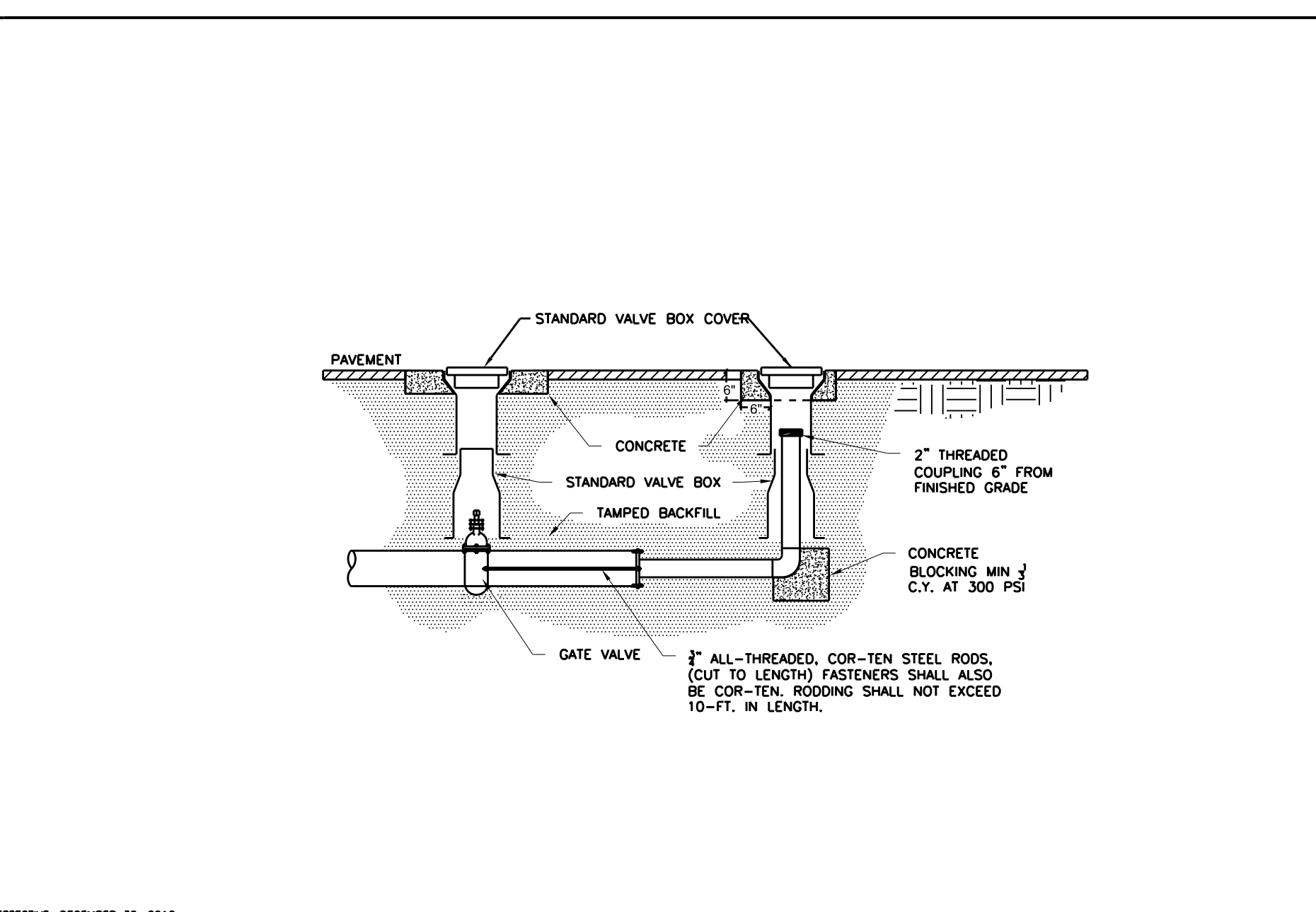
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PROJECT REFERENCE NO. U-5746	SHEET NO. UC-3B
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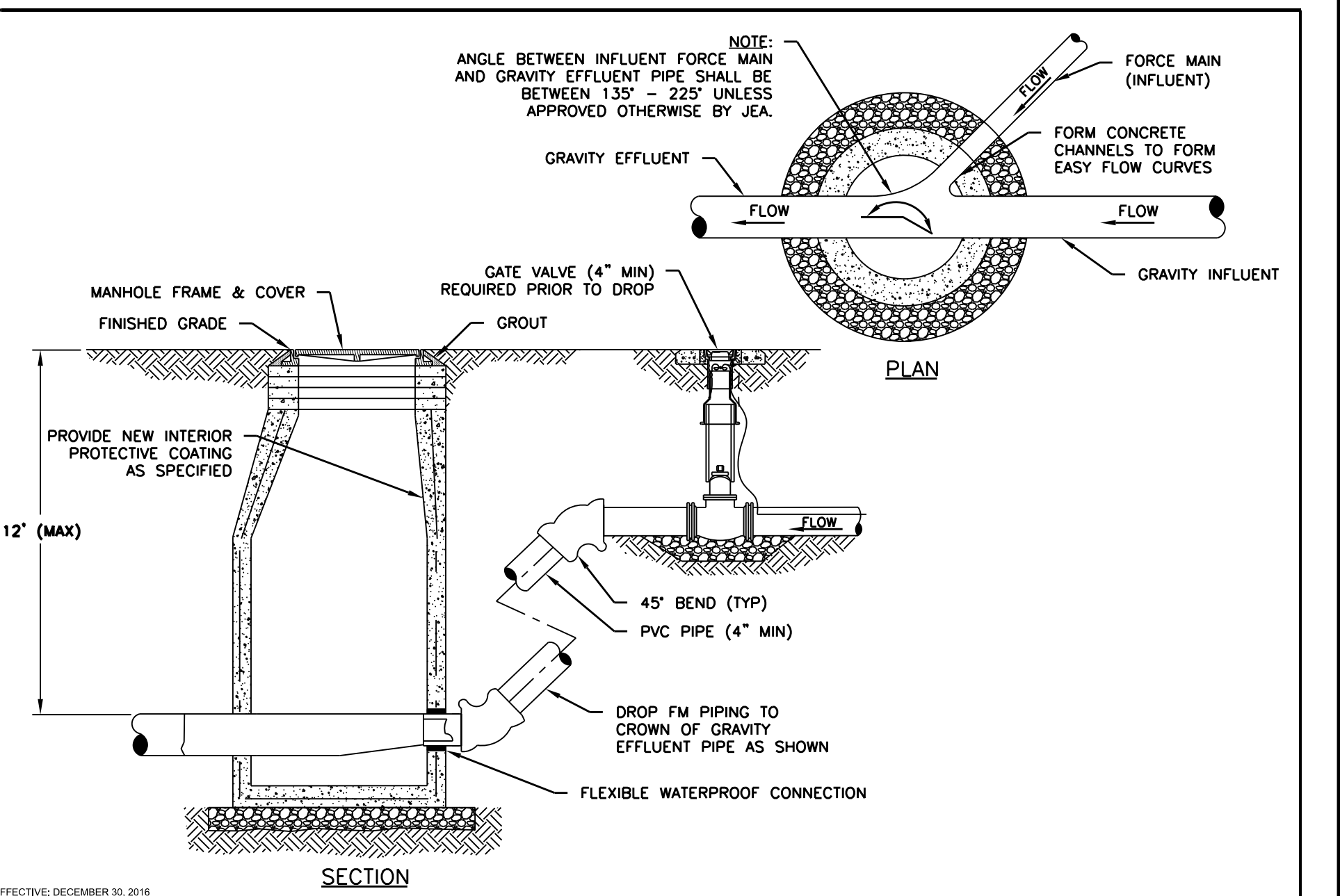
UTILITY CONSTRUCTION



EFFECTIVE: MAY 1, 2017	FUQUAY-VARINA north carolina	TOWN OF FUQUAY-VARINA STANDARD DETAILS	1.5 INCH AND 2 INCH WATER SERVICE AND METER BOX INSTALLATION	DETAIL No. 120.03	SHEET 01 of 01
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EFFECTIVE: DECEMBER 30, 2016	FUQUAY-VARINA north carolina	TOWN OF FUQUAY-VARINA STANDARD DETAILS	2 INCH BLOW-OFF ASSEMBLY	DETAIL No. 120.06	SHEET 01 of 01
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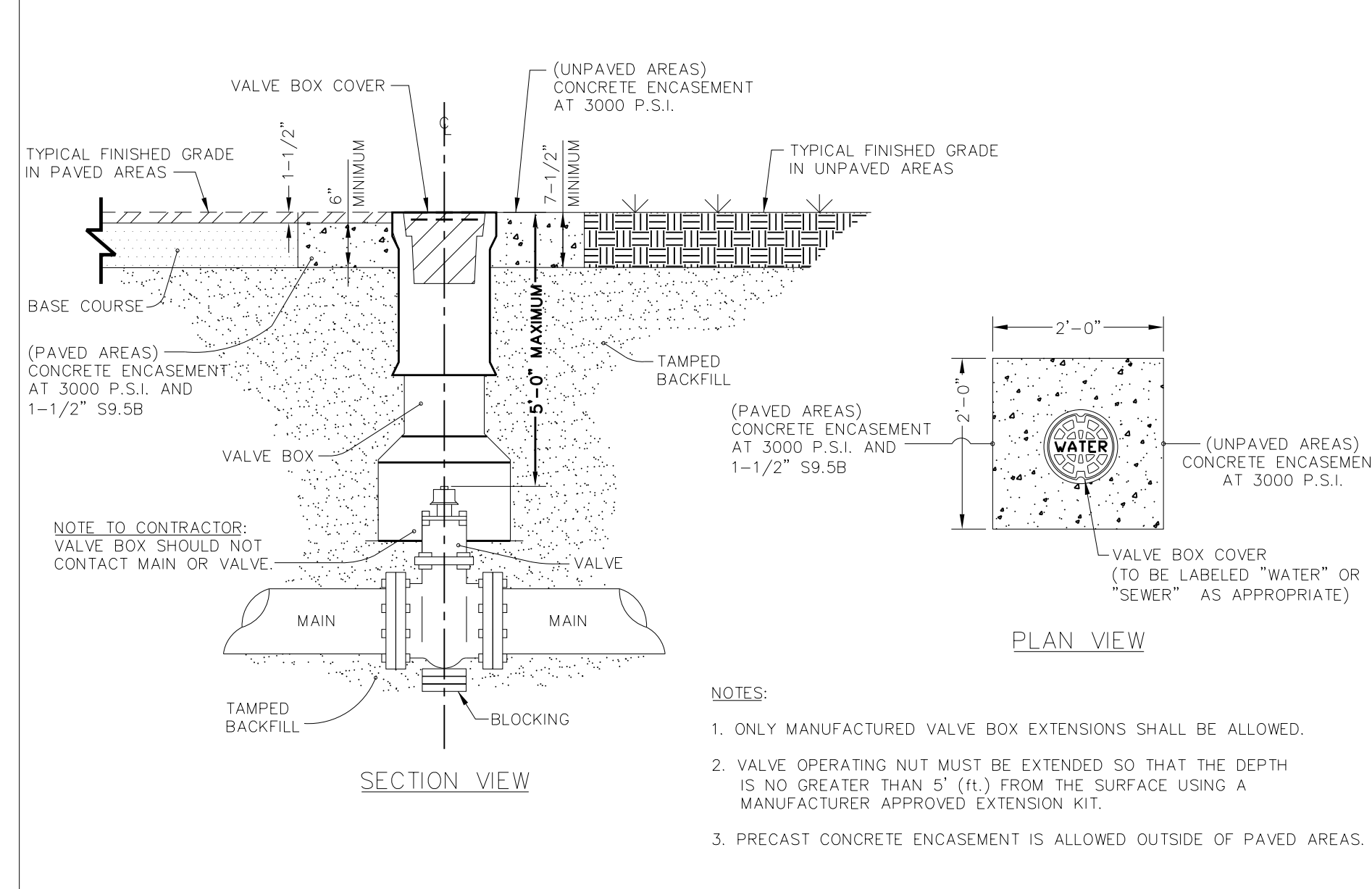
EFFECTIVE: DECEMBER 30, 2016	FUQUAY-VARINA north carolina	TOWN OF FUQUAY-VARINA STANDARD DETAILS	FORCE MAIN CONNECTION TO MANHOLE	DETAIL No. 160.04	SHEET 01 of 01
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NOTE:
 160.04.02.06 WET WELLS AND GRINDER WELLS, WET WELL PIPING SHALL BE COATED WITH AN APPROVED EPOXY COATING AT 500-MILS. CARE SHALL BE TAKEN TO ENSURE NO EPOXY COATING IS APPLIED TO THE PUMP COUPLING FACE, THE GUIDE RAILS, OR ANY OTHER PART THAT NEEDS TO ALLOW MOVEMENT OR REPLACEMENT ON A REGULAR BASIS. SEE SECTION 100 AND THE APPROVED MANUFACTURERS LIST FOR MORE INFORMATION ON EPOXY COATINGS.

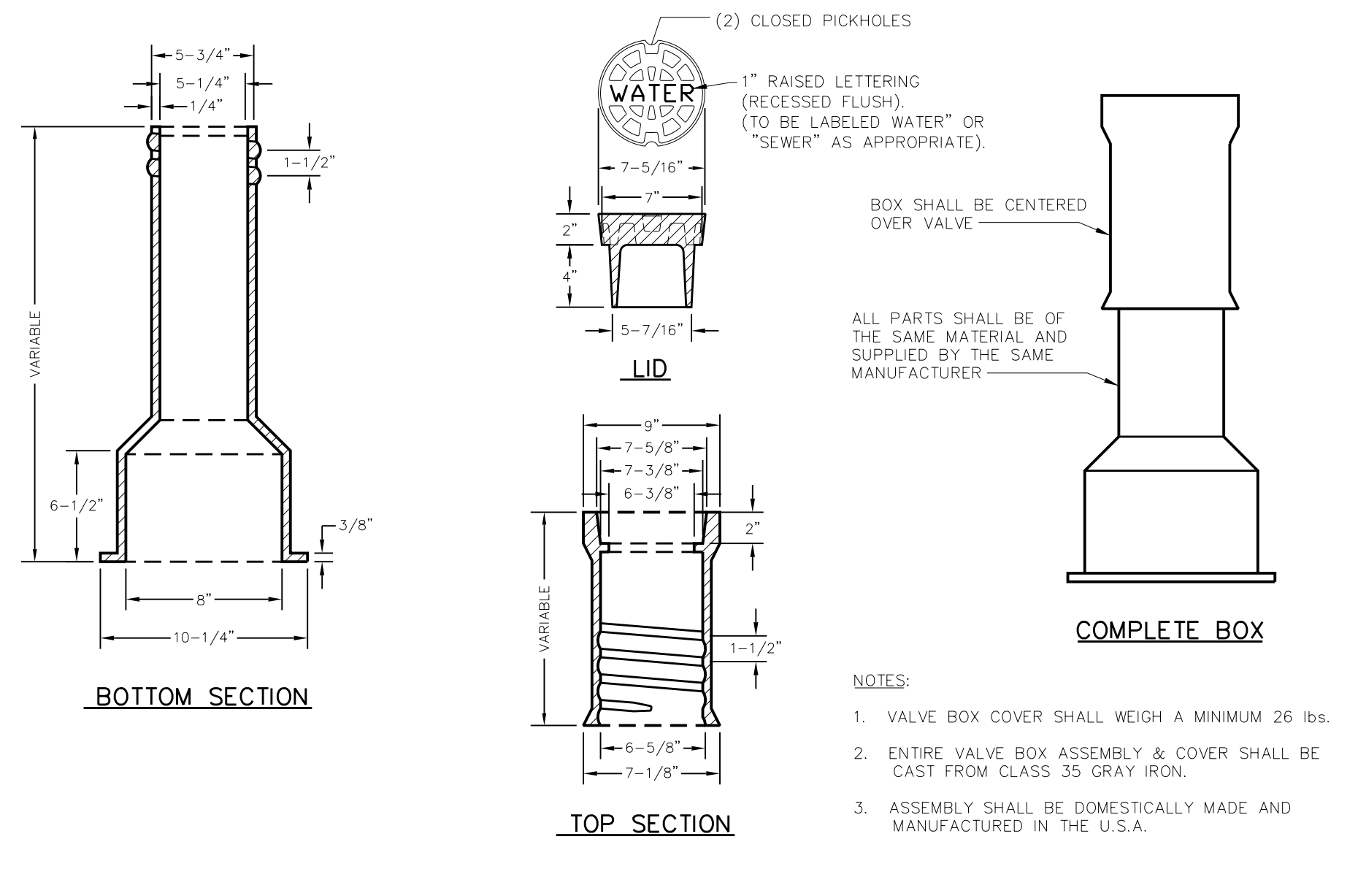
160.04.02.07 INTERIOR CORROSION PROTECTION: THE SURFACE PREPARATION METHOD SHALL PRODUCE A CLEANED, ABRADED AND SOUND SURFACE WITH NO EVIDENCE OF LAITANCE, LOOSE CONCRETE, LOOSE BRICK, LOOSE MORTAR, CONTAMINANTS OR DEBRIS, AND SHALL DISPLAY A SURFACE PROFILE SUITABLE FOR APPLICATION OF THE LINER SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AFTER COMPLETION OF SURFACE PREPARATION, PERFORM THE SEVEN-POINT CHECK LIST, INSPECTING FOR: LEAKS, RING AND COVER CONDITION, CRACKS, INVERT CONDITION, HOLES, INLET AND OUTLET PIPE CONDITION, AND EXPOSED REBAR. AFTER THE DEFECTS IN THE STRUCTURE ARE IDENTIFIED, REPAIR ALL LEAKS AND SEVERE CRACKS WITH SPECTRA-GROUT, OR OTHER METHODS APPROVED BY THE MANUFACTURER. UPON COMPLETION OF LEAK AND CRACK REPAIR, THE SURFACE SHALL BE PRIMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AFTER THE INTERIOR PATCHING HAS THOROUGHLY DRIED, THE ENTIRE SURFACE OF THE WET WELL INTERIOR SHALL RECEIVE 2 COATS SPECTRA SHIELD OR EQUIVALENT WITH A TOTAL DRY FILM THICKNESS OF 500 MILS, AND ALL NICKS AND SCRATCHES SHALL BE TOUCHED UP PRIOR TO ACCEPTANCE. IF MATERIAL OTHER THAN SPECTRA SHIELD IS PROPOSED, IT SHALL BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR PRIOR TO USE. ALTERNATIVES TO THIS COATING SYSTEM MAY BE ADDED TO THE APPROVED MANUFACTURER'S LIST IN THE APPENDIX. THE MANUFACTURER'S RECOMMENDATIONS FOR THE COATING SHALL SUPERSEDE THESE REQUIREMENTS UPON APPROVAL FROM THE PUBLIC UTILITIES DIRECTOR.

100.02.02.06.01 MANHOLES WILL RECEIVE INTERIOR COATINGS IF INDICATED IN THESE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES. TYPICALLY, WASTEWATER MANHOLES THAT CONTAIN HYDRAULIC JUMPS, WASTEWATER ENTERING FROM 12 INCH OR LARGER MAINS MORE THAN 12 INCHES ABOVE THE BENCH, LOCATED IN A WETLAND, OR A FORCE MAIN DISCHARGE, WILL REQUIRE INTERIOR COATING. INTERIOR COATINGS FOR MANHOLES SHALL BE FIELD APPLIED AFTER INSTALLATION TO ALLOW FOR A MONOLITHIC HOLIDAY FREE COATING. FACTORY APPLICATION MAY BE ALLOWED ON A PRE-APPROVED BASIS CONTINGENT UPON THE JOINTS RECEIVING A FIELD APPLICATION. THE COATING SHALL BE APPLIED TO THE ENTIRE MANHOLE INTERIOR, INCLUDING THE BENCH. THE EPOXY SHALL BE AS LISTED IN THE APPROVED MANUFACTURER'S LIST AND SHALL BE APPLIED TO A MINIMUM THICKNESS OF 500 MILS. DESIGN PROFESSIONAL SHALL PLACE A NOTE ON THE PLANS SHOWING THE REQUIRED COATING FOR EACH MANHOLE.

APPROVED MANUFACTURERS LIST 180.01.01
 PAGE (2 OF 4)
 MANHOLE COATINGS
 INTERIOR COATING - SPECTRASHIELD, SPRAY WALL BY SPRAY ROQ, SHERWIN WILLIAMS DURA PLATE 6000



EFFECTIVE: MAY 1, 2017	FUQUAY-VARINA north carolina	TOWN OF FUQUAY-VARINA STANDARD DETAILS	VALVE BOX INSTALLATION	DETAIL No. 120.11	SHEET 01 of 02
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EFFECTIVE: DECEMBER 30, 2016	FUQUAY-VARINA north carolina	TOWN OF FUQUAY-VARINA STANDARD DETAILS	VALVE BOX INSTALLATION	DETAIL No. 120.11	SHEET 02 of 02
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REVISIONS

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DESIGNED BY:
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 CHECKED BY:
 APPROVED BY:
 REVISED:

NORTH CAROLINA PROFESSIONAL SEAL
 024128
 W. L. LANGSTON, JR.
 CIVIL ENGINEER
 8/15/2024

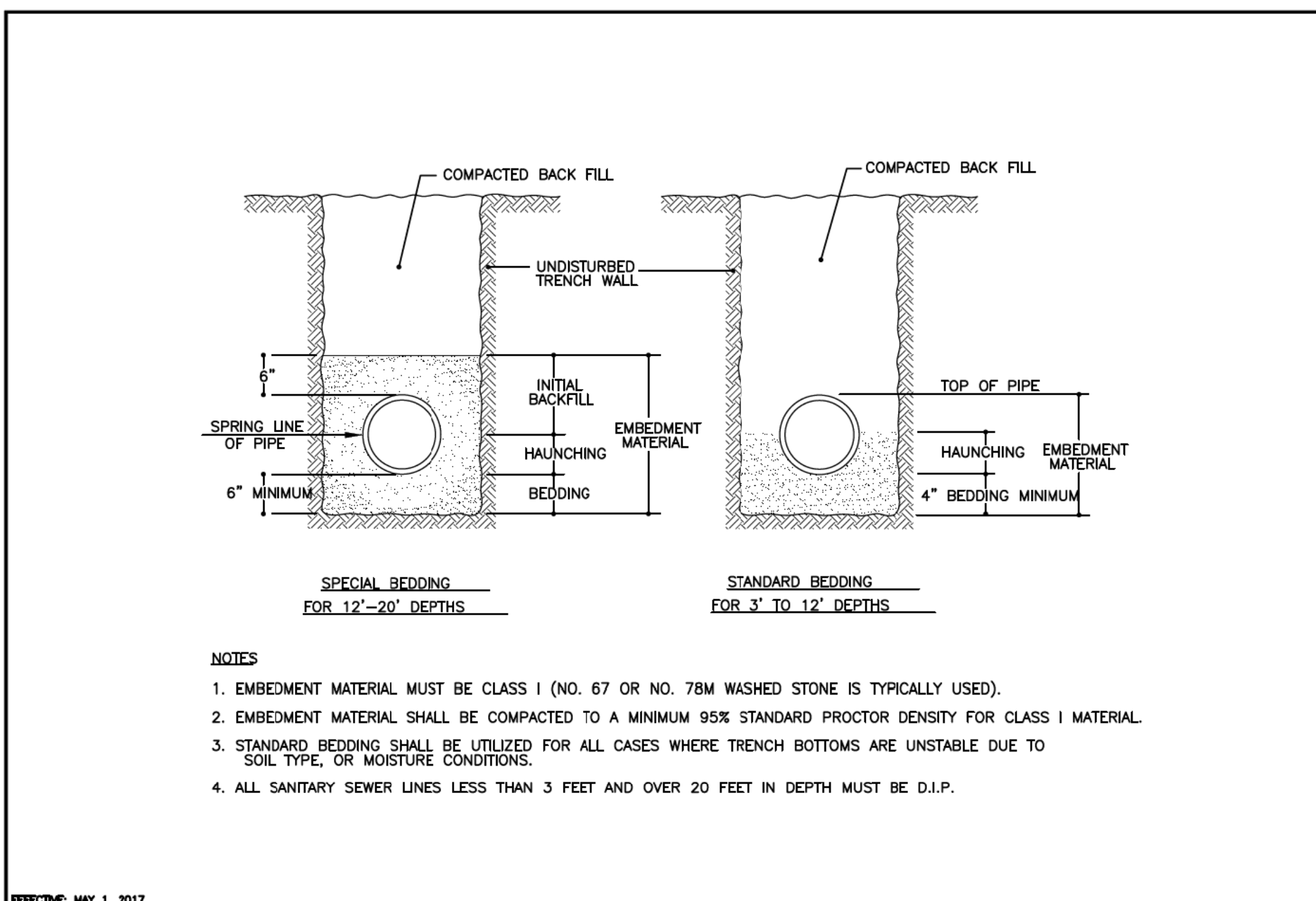
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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 FAX: (919) 250-4151

UTILITY CONSTRUCTION PLANS ONLY

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UTILITY CONSTRUCTION



- NOTES**
- EMBEDMENT MATERIAL MUST BE CLASS I (NO. 67 OR NO. 78M WASHED STONE IS TYPICALLY USED).
 - EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY FOR CLASS I MATERIAL.
 - STANDARD BEDDING SHALL BE UTILIZED FOR ALL CASES WHERE TRENCH BOTTOMS ARE UNSTABLE DUE TO SOIL TYPE, OR MOISTURE CONDITIONS.
 - ALL SANITARY SEWER LINES LESS THAN 3 FEET AND OVER 20 FEET IN DEPTH MUST BE D.I.P.

EFFECTIVE: MAY 1, 2017

FUQUAY-VARINA north carolina

TOWN OF FUQUAY-VARINA
STANDARD DETAILS

BEDDING FOR FLEXIBLE AND SEMI-RIGID SANITARY SEWER

DETAIL No. 150.12
SHEET 01 of 01

PRIOR TO BEING APPROVED FOR SERVICE, ALL NEW MANHOLES SHALL BE VACUUM TESTED BY THE INSTALLER. EQUIPMENT USED FOR VACUUM TESTING SHALL BE MANUFACTURED AND INTENDED SPECIFICALLY FOR MANHOLE VACUUM TESTING AND SHALL BE USED AND OPERATED PER MANUFACTURER'S RECOMMENDATIONS.

THE VACUUM TEST SHALL BE PERFORMED BY FIRST PLUGGING ALL SEWER MAINS COMING INTO THE MANHOLE (SERVICE LATERALS WILL BE INCLUDED IN VACUUM TESTS) AND THEN APPLYING A VACUUM OF 10 INCHES OF MERCURY. THE TEST SHALL THEN CONSIST OF OBSERVING THE TIME FOR THE VACUUM TO FALL TO 9 INCHES. THIS TIME SHALL BE COMPARED TO THE CHART BELOW TO DETERMINE ACCEPTABILITY. IF THE TIME TO FALL TO 9 INCHES IS AT LEAST AS SHOWN IN THE CHART BELOW, THE MANHOLE PASSES THE VACUUM TEST. IF NOT, THE MANHOLE FAILS THE VACUUM TEST. IF THE MANHOLE FAILS THE VACUUM TEST, NECESSARY REPAIRS SHALL BE MADE USING NON-SHRINK GROUT, MAINTAINING AS MUCH VACUUM AS POSSIBLE.

MANHOLE DEPTH	MANHOLE DIAMETER		
	4'0"	5'0"	6'0"
10' OR LESS	60 SEC.	75 SEC.	90 SEC.
10' TO 15'	75 SEC.	90 SEC.	105 SEC.
15' OR GREATER	90 SEC.	105 SEC.	120 SEC.

EFFECTIVE: DECEMBER 30, 2016

FUQUAY-VARINA north carolina

TOWN OF FUQUAY-VARINA
STANDARD DETAILS

MANHOLE VACUUM TESTING

DETAIL No. 150.16
SHEET 01 of 01

REVISIONS

SPECIFICATION TIME (MIN:SEC) REQUIRED FOR PRESSURE DROP FROM 3-1/2 TO 2-1/2 PSIG

	NOMINAL PIPE DIAMETER (INCHES)														
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EFFECTIVE: DECEMBER 30, 2016

FUQUAY-VARINA north carolina

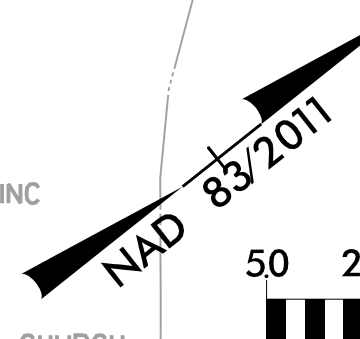
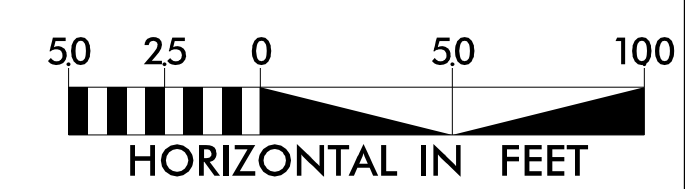
TOWN OF FUQUAY-VARINA
STANDARD DETAILS

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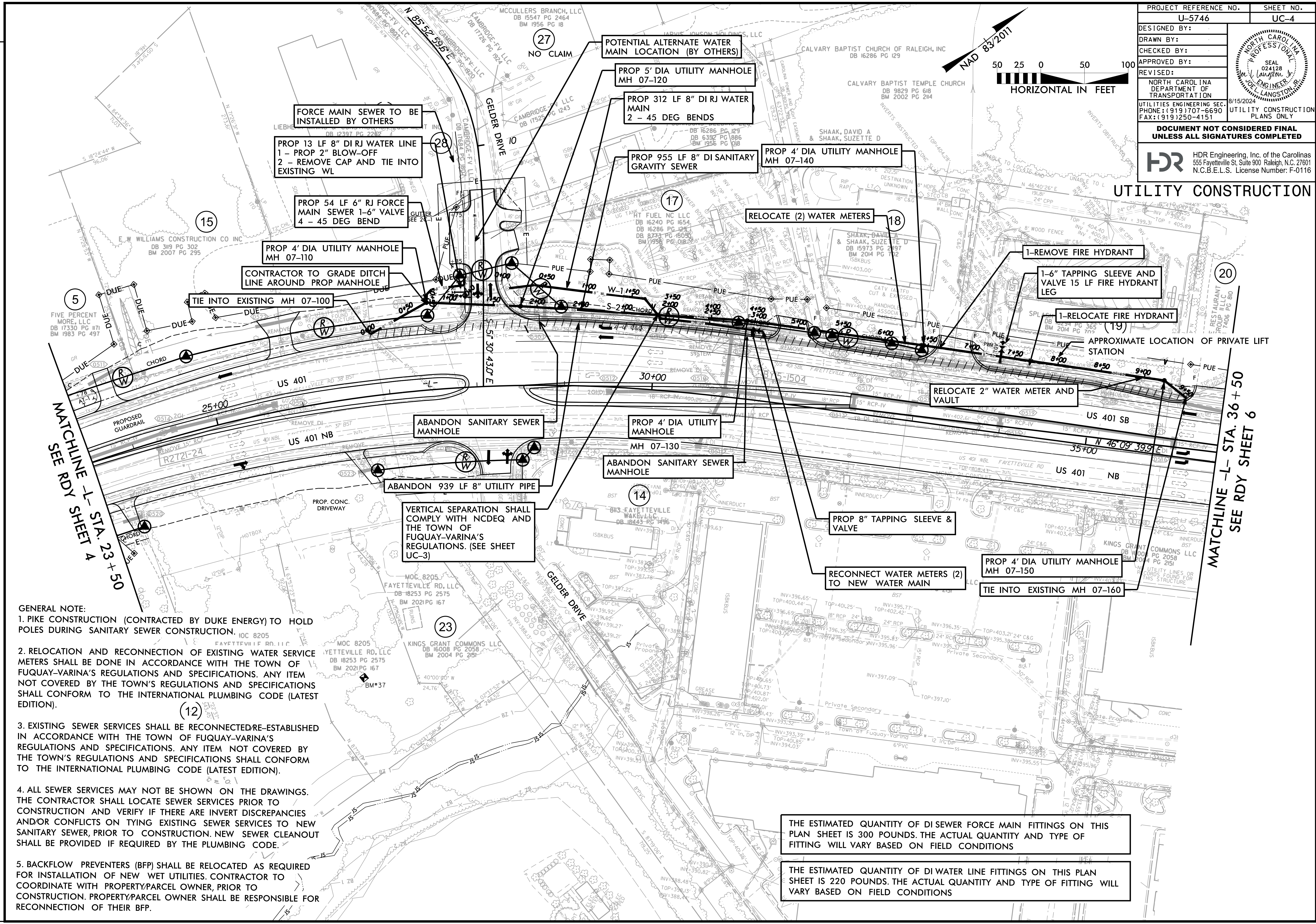
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 FILE: \

PROJECT REFERENCE NO.	SHEET NO.
U-5746	UC-4
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	8/15/2024
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



UTILITY CONSTRUCTION



- GENERAL NOTE:**
- PIKE CONSTRUCTION (CONTRACTED BY DUKE ENERGY) TO HOLD POLES DURING SANITARY SEWER CONSTRUCTION.
 - RELOCATION AND RECONNECTION OF EXISTING WATER SERVICE METERS SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF FUQUAY-VARINA'S REGULATIONS AND SPECIFICATIONS. ANY ITEM NOT COVERED BY THE TOWN'S REGULATIONS AND SPECIFICATIONS SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE (LATEST EDITION).
 - EXISTING SEWER SERVICES SHALL BE RECONNECTED/RE-ESTABLISHED IN ACCORDANCE WITH THE TOWN OF FUQUAY-VARINA'S REGULATIONS AND SPECIFICATIONS. ANY ITEM NOT COVERED BY THE TOWN'S REGULATIONS AND SPECIFICATIONS SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE (LATEST EDITION).
 - ALL SEWER SERVICES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL LOCATE SEWER SERVICES PRIOR TO CONSTRUCTION AND VERIFY IF THERE ARE INVERT DISCREPANCIES AND/OR CONFLICTS ON TYING EXISTING SEWER SERVICES TO NEW SANITARY SEWER, PRIOR TO CONSTRUCTION. NEW SEWER CLEANOUT SHALL BE PROVIDED IF REQUIRED BY THE PLUMBING CODE.
 - BACKFLOW PREVENTERS (BFP) SHALL BE RELOCATED AS REQUIRED FOR INSTALLATION OF NEW WET UTILITIES. CONTRACTOR TO COORDINATE WITH PROPERTY/PARCEL OWNER, PRIOR TO CONSTRUCTION. PROPERTY/PARCEL OWNER SHALL BE RESPONSIBLE FOR RECONNECTION OF THEIR BFP.


THE ESTIMATED QUANTITY OF DI SEWER FORCE MAIN FITTINGS ON THIS PLAN SHEET IS 300 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTING WILL VARY BASED ON FIELD CONDITIONS

THE ESTIMATED QUANTITY OF DI WATER LINE FITTINGS ON THIS PLAN SHEET IS 220 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTING WILL VARY BASED ON FIELD CONDITIONS

MATCHLINE -L- STA. 23+50
SEE RDY SHEET 4

MATCHLINE -L- STA. 36+50
SEE RDY SHEET 6

REVISIONS
 DGN NAME: ... \US746-ut_rdy5_UC04_psh.dgn
 PLOT DRIVER: NCDOT... \color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\2016.NCDOT_Central.Reg.Div_Plan_Div_Plan_US746... \US746-ut_rdy5_UC04_psh.dgn
 PENTABLE: NCDOT_pshpfl-ut_UC_MODIFIED.BW.TBL
 TIME: 1:15:38 PM
 DATE: 8/13/2024

PROJECT REFERENCE NO. U-5746	SHEET NO. UC-5
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	8/15/2024
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION	UTILITY CONSTRUCTION PLANS ONLY
PHONE: (919) 707-6690	FAX: (919) 250-4151

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