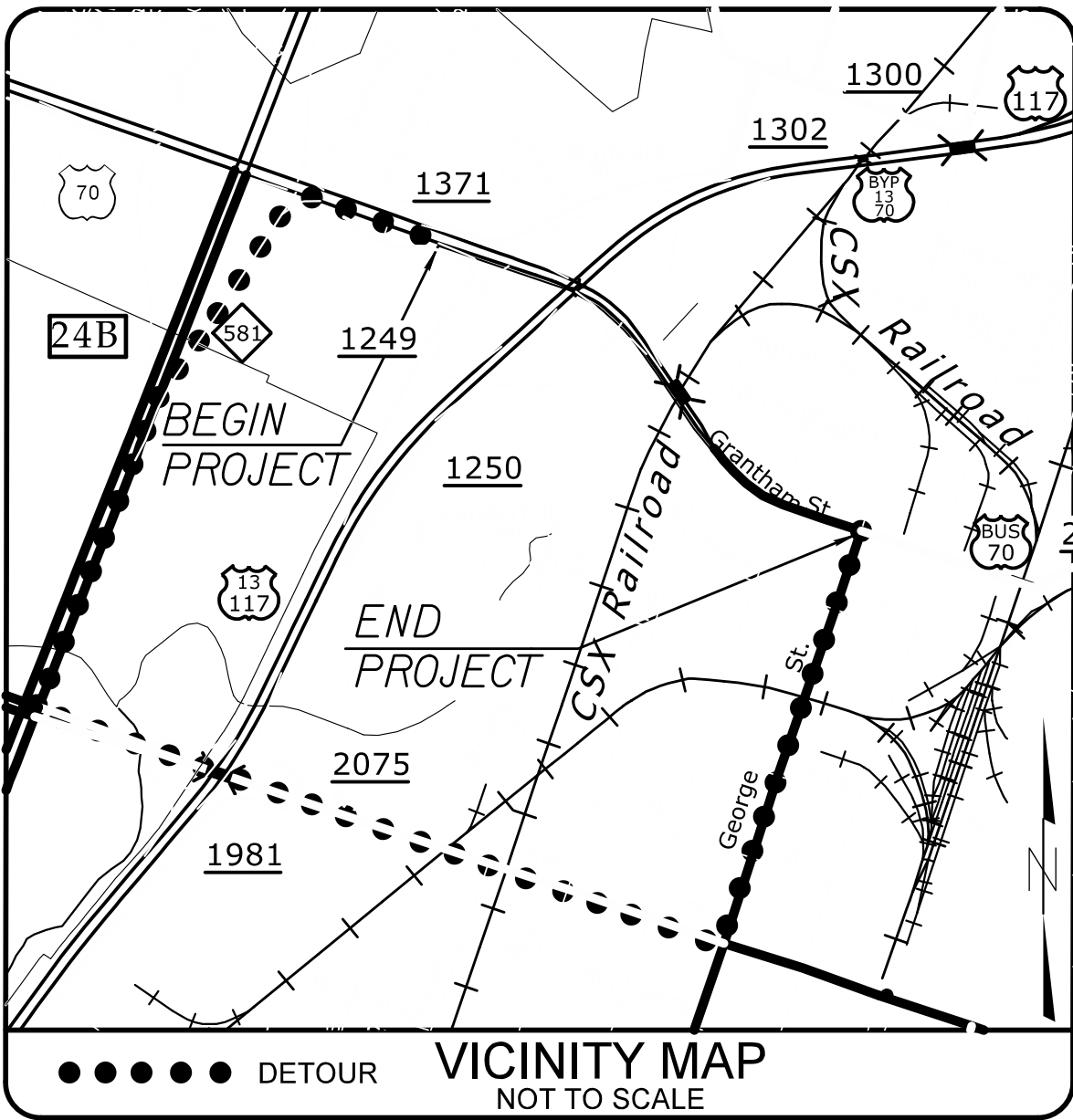


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RemyR

TIP PROJECT: B-4838

CONTRACT:

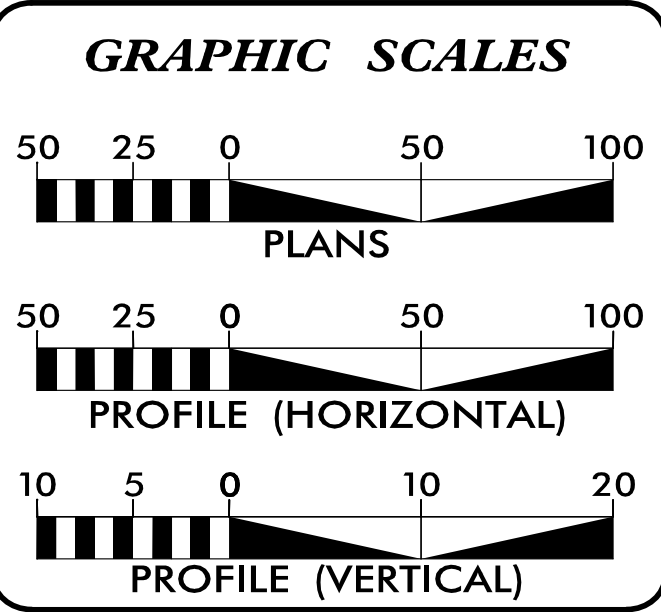
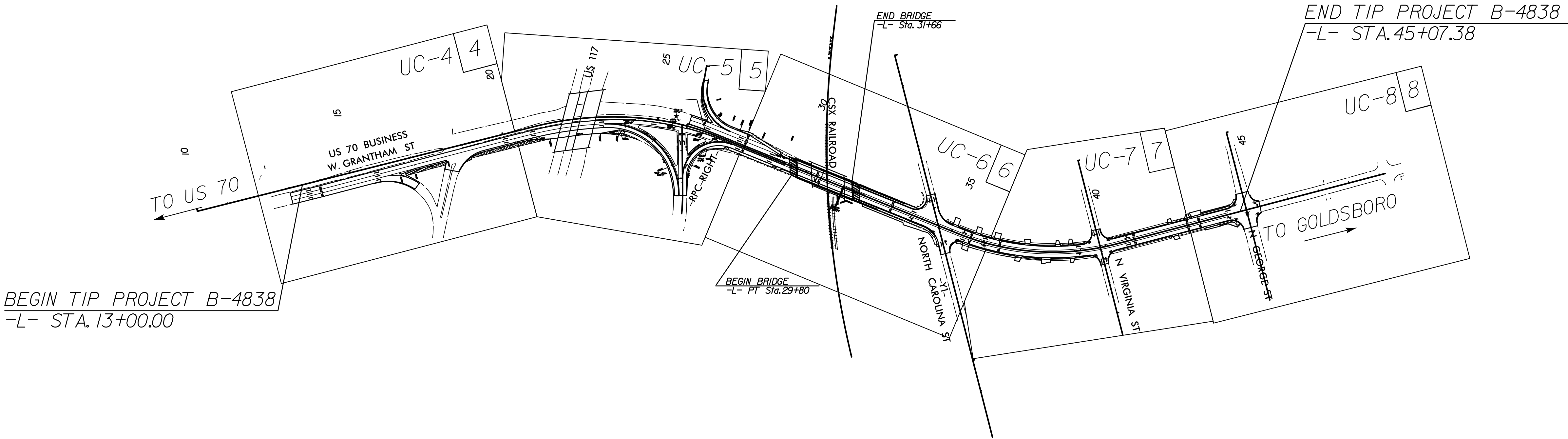
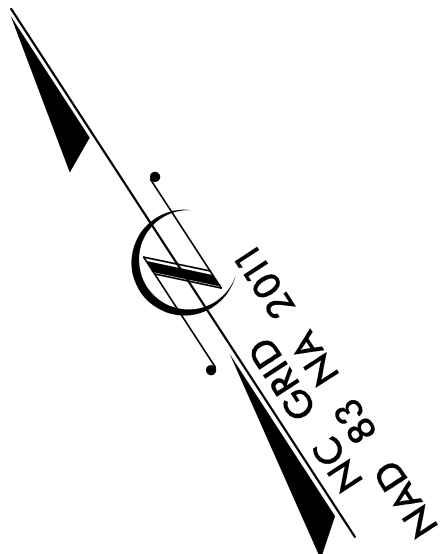
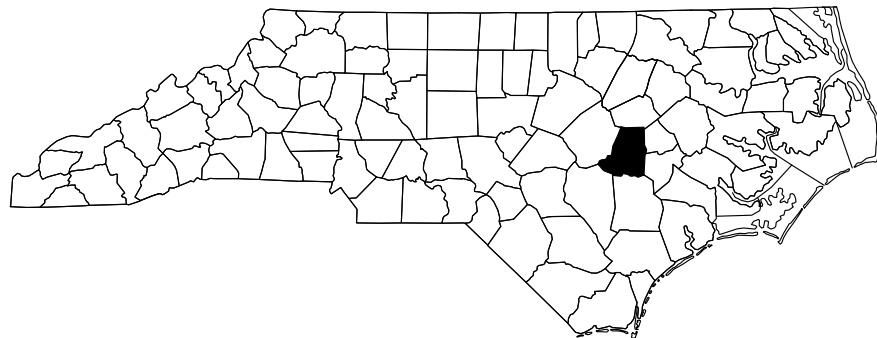


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
WAYNE COUNTY

LOCATION: BRIDGE NO. 20 ON US 70B (GRANTHAM ST)
OVER CSX RAILROAD

TYPE OF WORK: WATER AND SANITARY SEWER RELOCATIONS



INDEX OF SHEETS	
SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3C	UC DETAIL SHEETS
UC-4 THRU UC-8	UC PLAN SHEETS
UC-9	UC PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT	
(A) WATER: CITY OF GOLDSBORO (B) SANITARY SEWER: CITY OF GOLDSBORO	
LETTING DATE: JANUARY 20, 2026	

PREPARED IN THE OFFICE OF	
AECOM AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC. 5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607 919-461-1100 F - 0342	
Steve Scruggs, PE	UTILITY PROJECT MANAGER
John C. Morrison, PE	PROJECT ENGINEER

SEAL

11/3/2025

NORTH CAROLINA PROFESSIONAL ENGINEER

JOHN C. MORRISON

SEAL 030474

Signed by: John C. Morrison

C657B167F93242D...

DIVISION OF HIGHWAYS UTILITIES UNIT	
1555 MAIL SERVICES CENTER RALEIGH, NC 27699-1555 PHONE (919) 707-6690 FAX (919) 250-4151	
Nabil Hamdan	UTILITIES REGIONAL ENGINEER
Tevin Asamoah	UTILITIES ENGINEER
Tanga Sampson	UTILITIES AREA COORDINATOR
Larry James	UTILITIES COORDINATOR

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-4838	UC-2

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	12" WL
11¼ Degree Bend	++
22½ Degree Bend	+x
45 Degree Bend	+X
90 Degree Bend	┐
Plug	■
Tee	++
Cross	++
Reducer	►
Gate Valve	GV
Butterfly Valve	BV
Tapping Valve	TGV
Line Stop	LS
Line Stop with Bypass	LS/BP
Blow Off	BO
Fire Hydrant	PFH
Relocate Fire Hydrant	RFH
Remove Fire Hydrant	REM FH
Water Meter	PWM
Relocate Water Meter	RWM
Remove Water Meter	REM WM
Water Pump Station	PS(W)
RPZ Backflow Preventer	PRPZ
DCV Backflow Preventer	PBFP
Relocate RPZ Backflow Preventer	RRPZ
Relocate DCV Backflow Preventer	RBFP

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	12" SS
Force Main Sewer Line (Sized as Shown)	12" FSS
Manhole (Sized per Note)	●
Sewer Pump Station	PS(SS)

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	○
Telephone Pole	○
Joint Use Pole	○
Telephone Pedestal	TEL PED
Utility Line by Others (Type as Shown)	○
Trenchless Installation	12" TL INSTALL
Encasement by Open Cut	24" ENCAS BY OC
Encasement	24" ENCASUREMENT

Thrust Block	■
Air Release Valve	AR
Utility Vault	UV
Concrete Pier	CP
Steel Pier	SP
Plan Note	NOTE
Pay Item Note	PAY ITEM

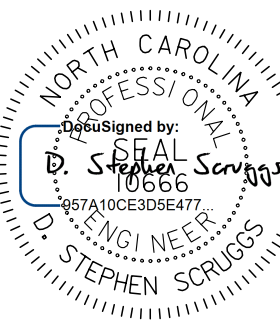
EXISTING UTILITIES SYMBOLS

*Underground Power Line	P
*Underground Telephone Cable	T
*Underground Telephone Conduit	TC
*Underground Fiber Optics Telephone Cable	T FO
*Underground TV Cable	TV
*Underground Fiber Optics TV Cable	TV FO
*Underground Gas Pipeline	G
Aboveground Gas Pipeline	A/G Gas
*Underground Water Line	W
Aboveground Water Line	A/G Water
*Underground Gravity Sanitary Sewer Line	SS
Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
*Underground SS Forced Main Line	FSS
Underground Unknown Utility Line	UUTL
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)

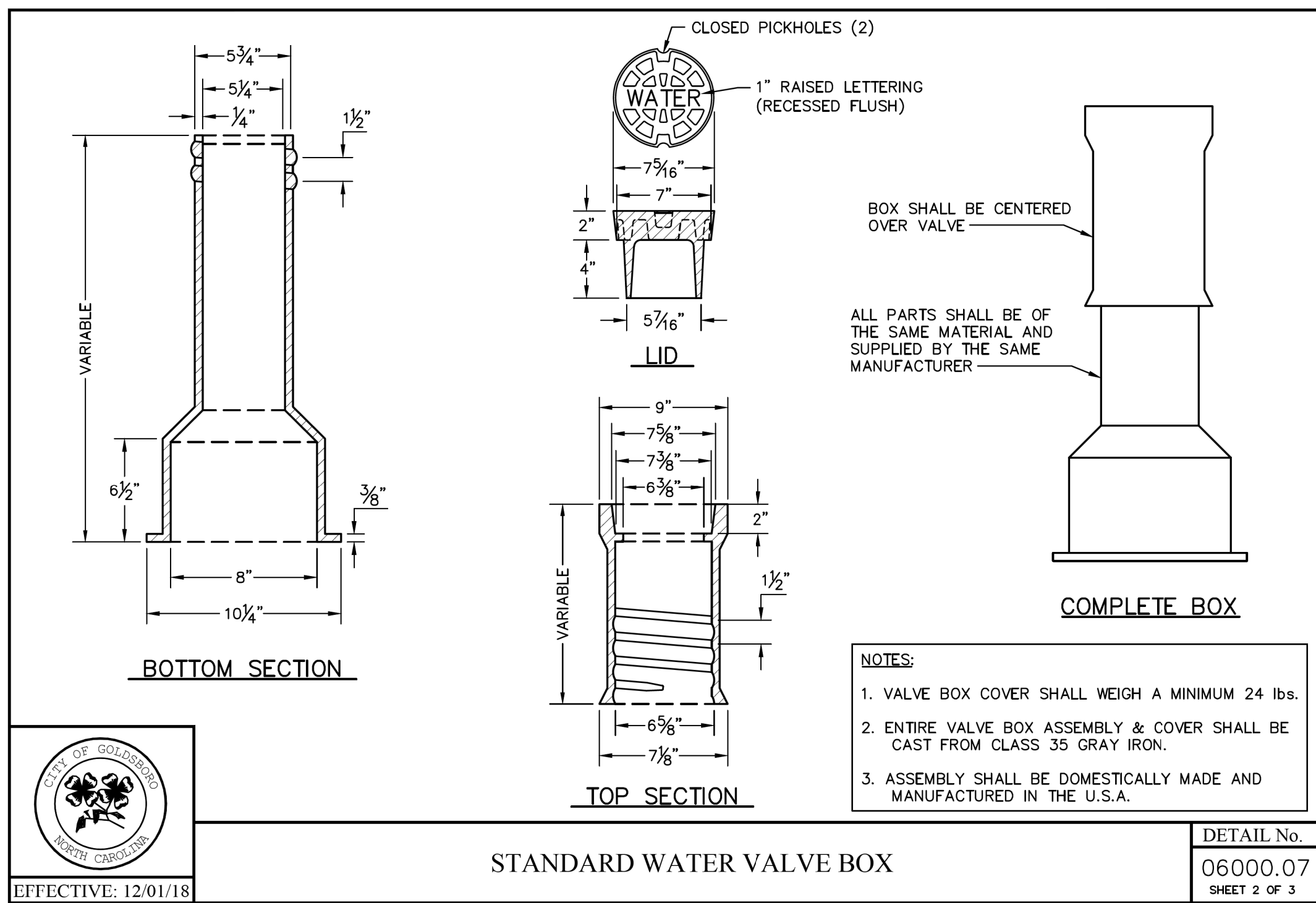
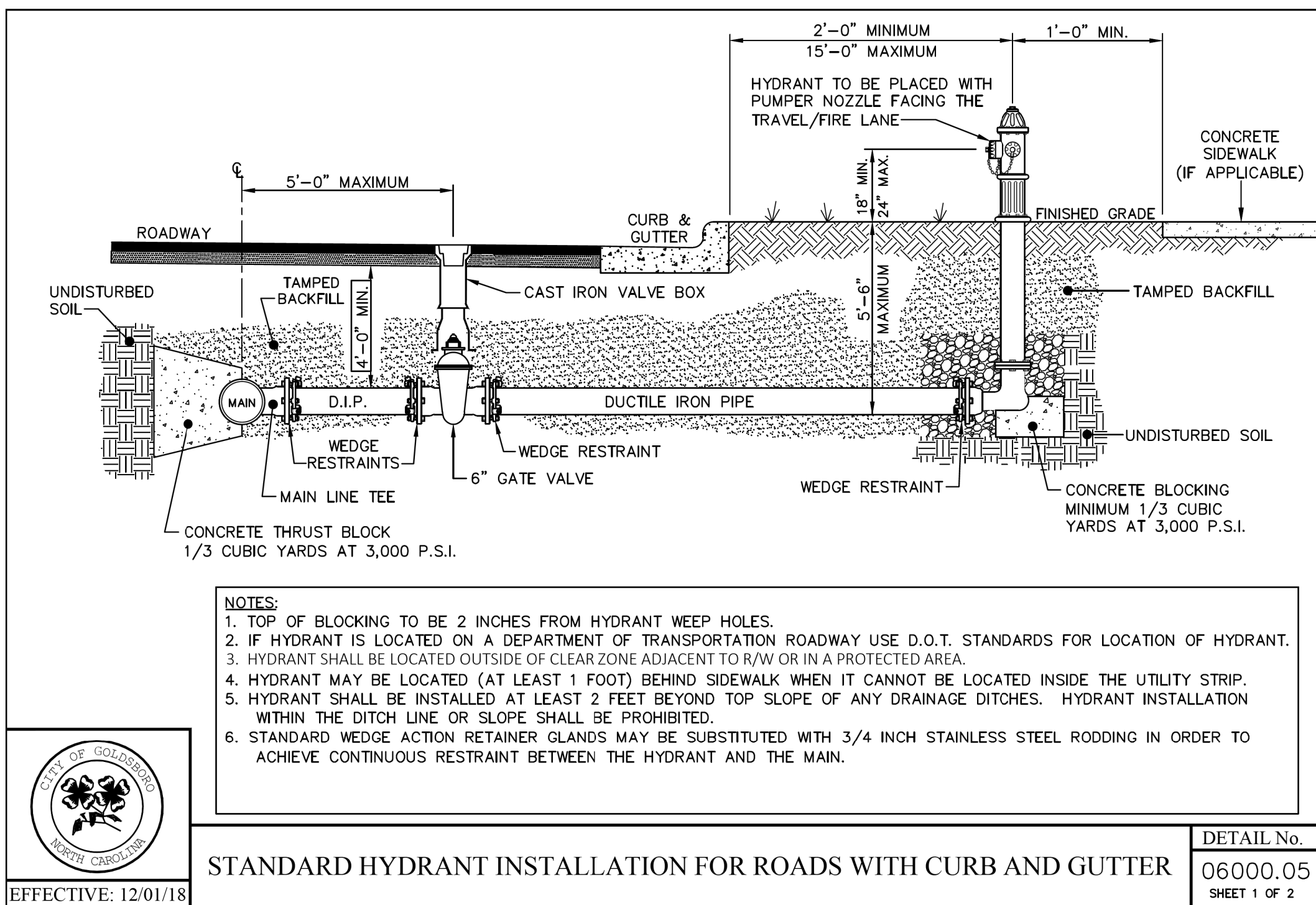
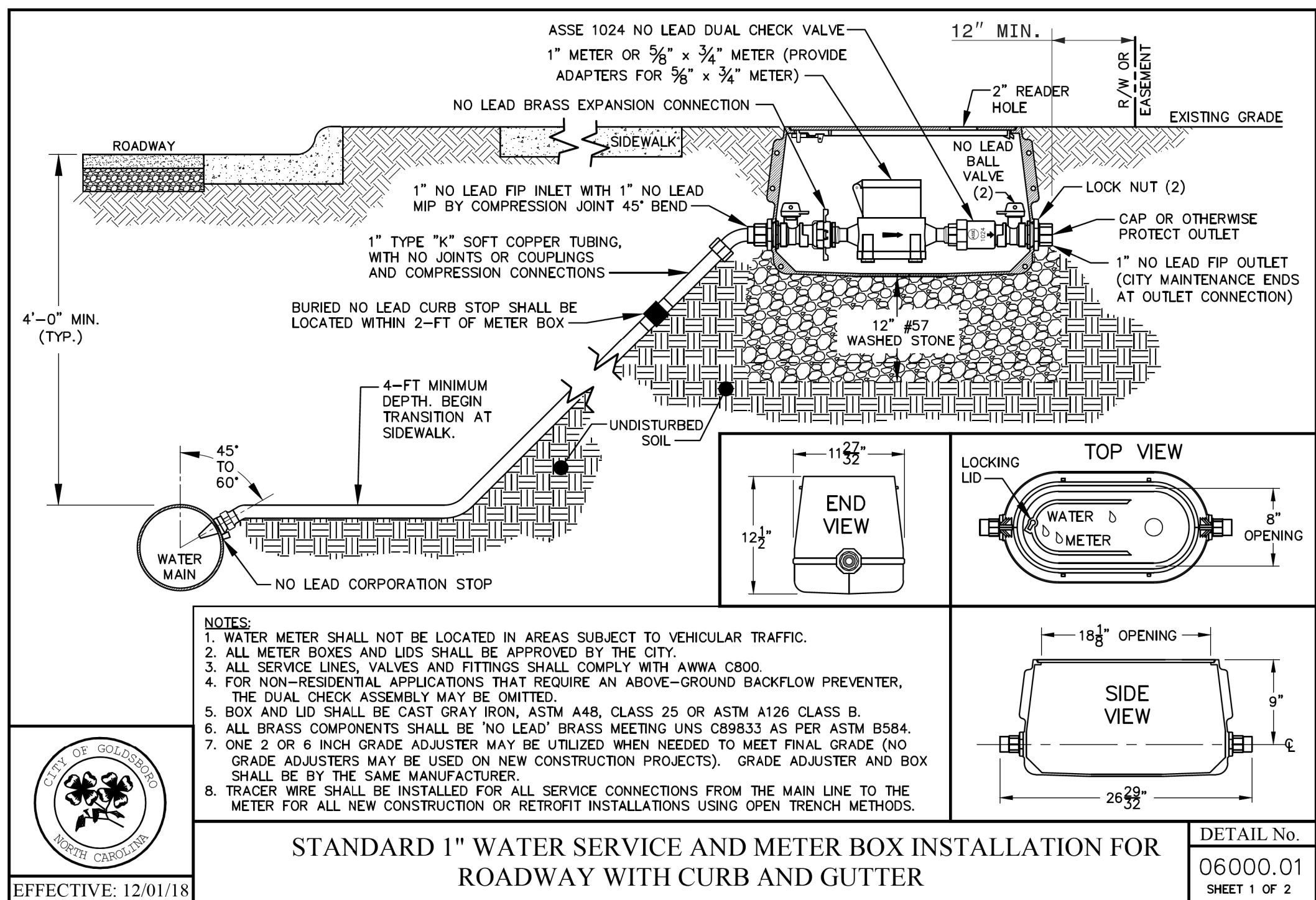
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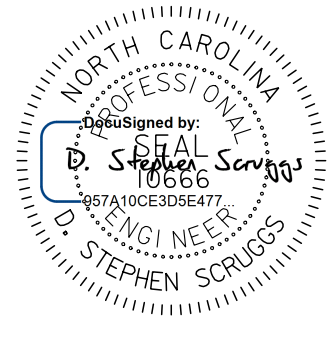
UTILITY CONSTRUCTION



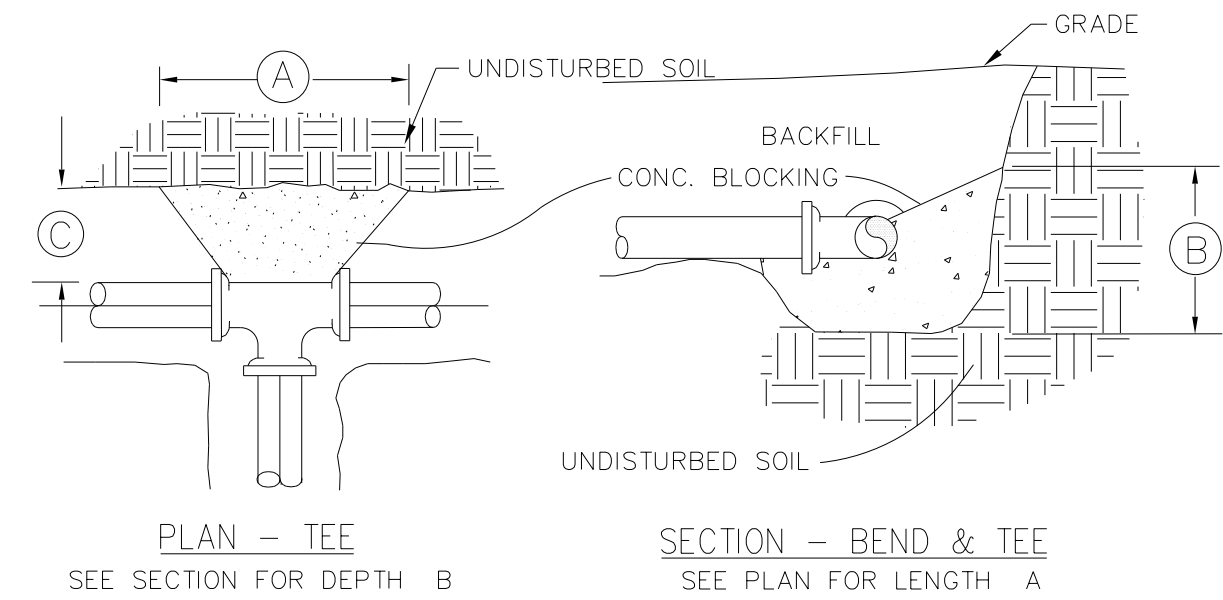
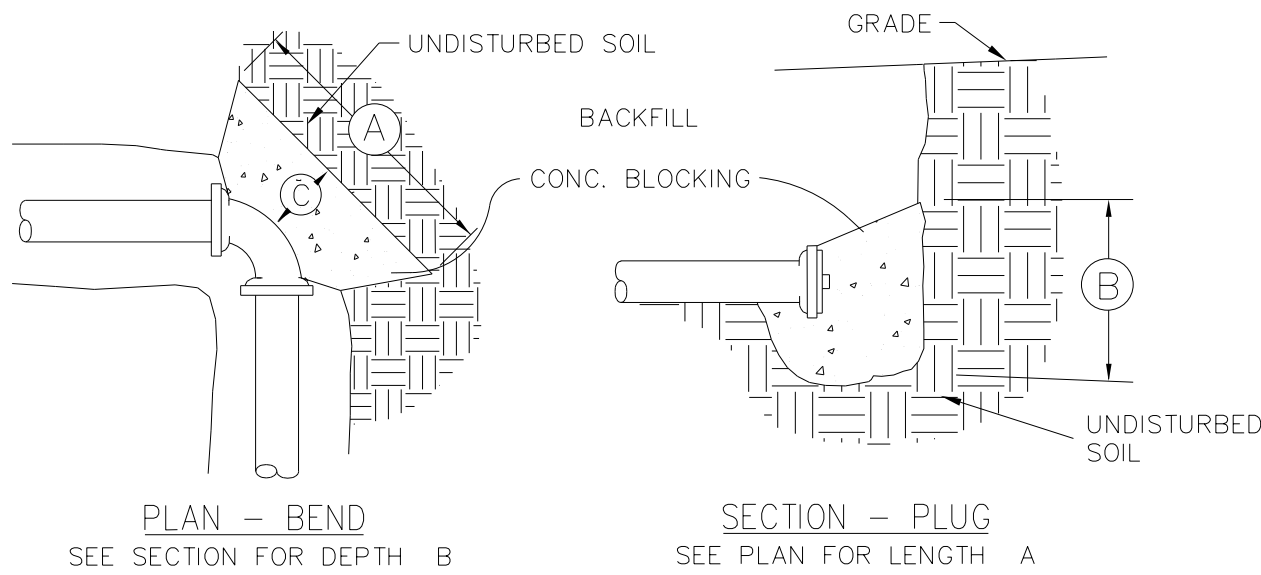
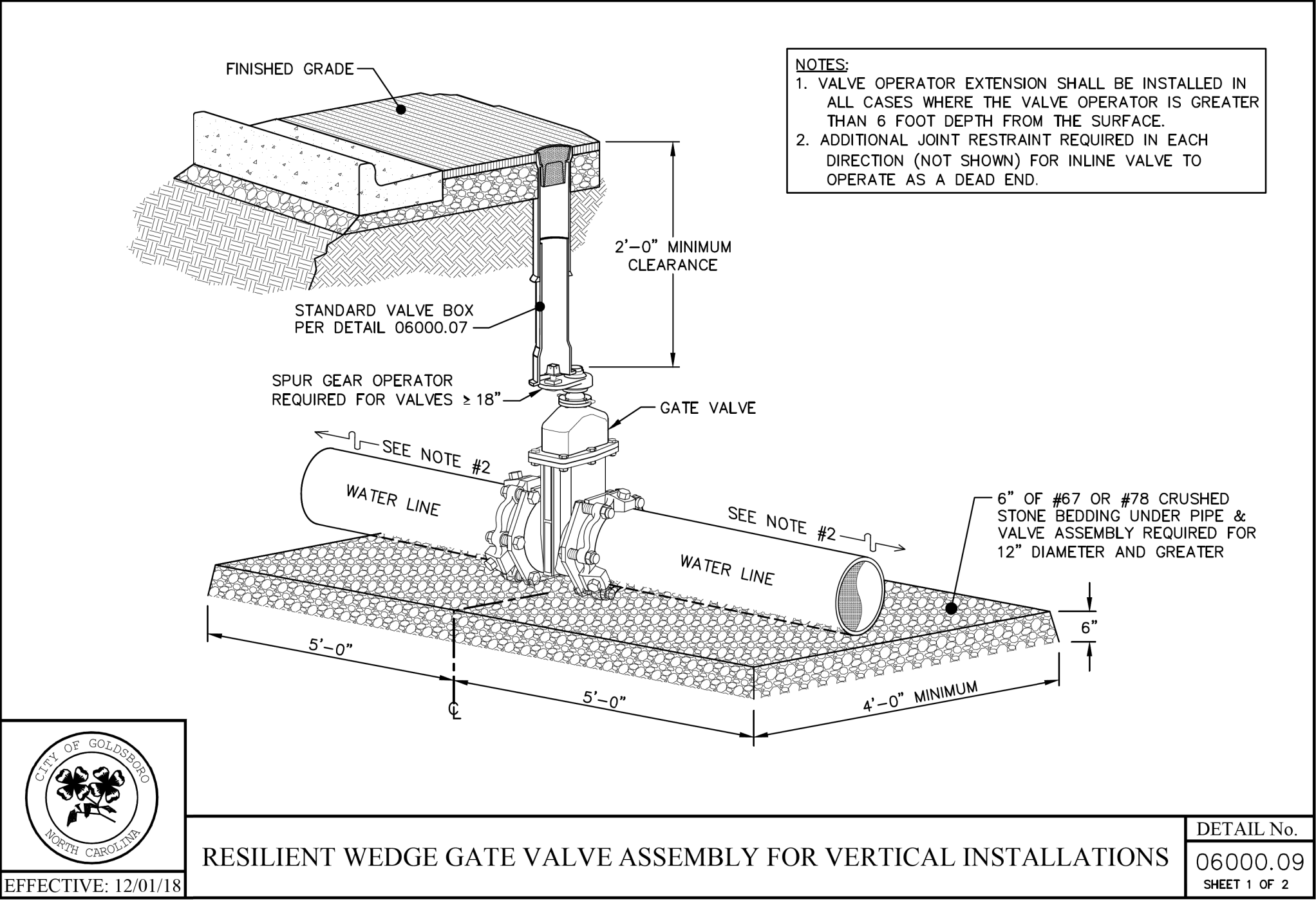
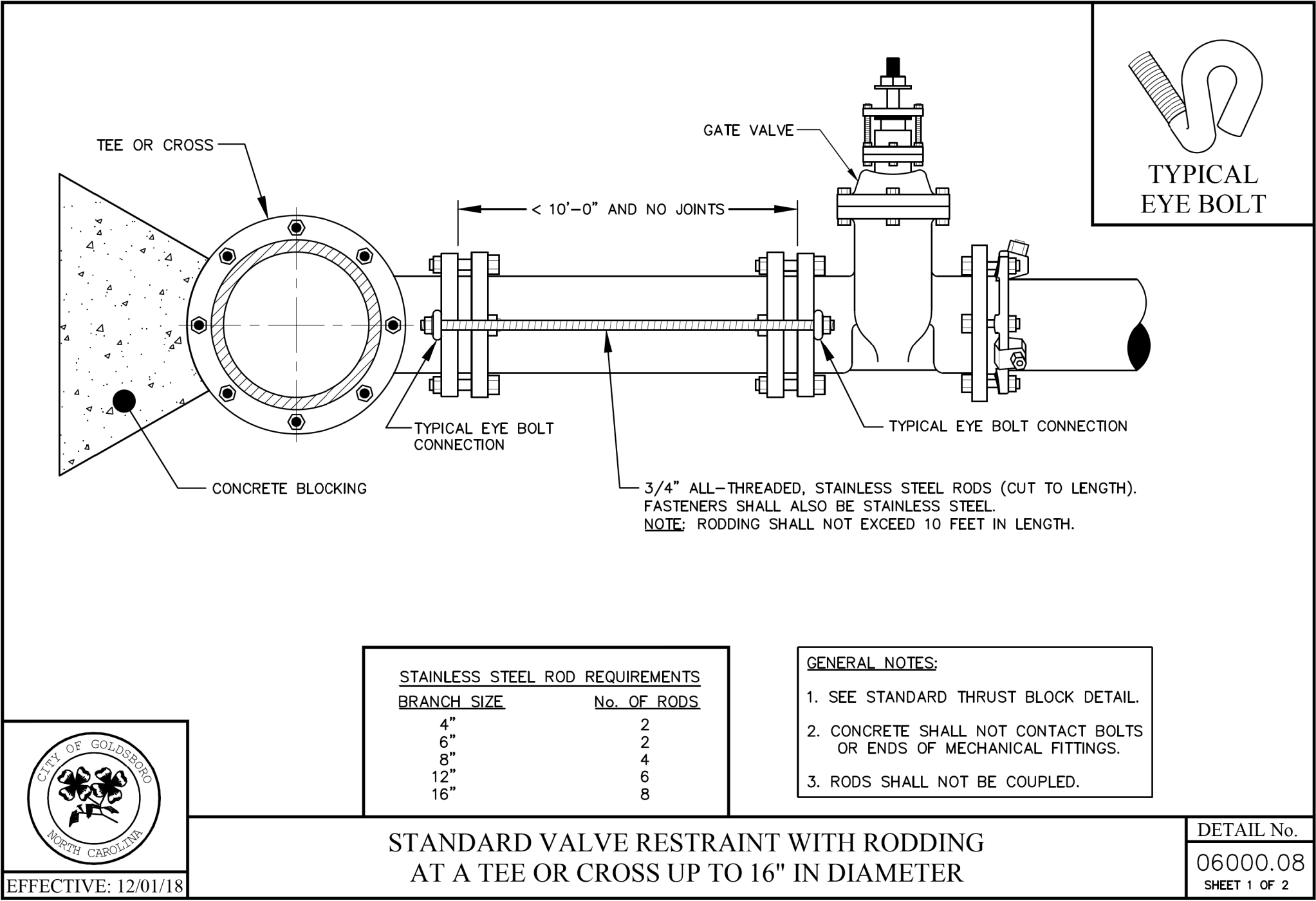
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PROJECT REFERENCE NO.	SHEET NO.
B-4838	UC-3B
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	8/19/2024

UTILITY CONSTRUCTION



THRUST
BLOCKS DETAIL

BLOCKING DIMENSIONS			
PIPE SIZE	(A)	(B)	(C)
UP TO 10"	4' - 0"	2' - 6"	1' - 6"
12" TO 16"	5' - 0"	4' - 0"	2' - 0"
18" TO 24"	9' - 0"	6' - 0"	3' - 0"

- NOTES:
- 3,000 P.S.I. CONC.
 - REMOVE LOOSE EARTH AND POUR AGAINST UNDISTURBED SOIL.
 - BACKFILL TO EXISTING/FINISH GRADE AFTER CONCRETE HAS CURED FOR 24 HOURS.
 - CONCRETE SHALL NOT COVER FLANGES, BOLTS, MEGA-LUGS, RODS, ETC.
 - THE THRUST BLOCK SIZES ARE BASED ON A SANDY SILT SOIL HAVING A MINIMUM BEARING CAPACITY OF 3,000 PSF AND A SAFETY FACTOR OF 1.5. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY SIGNIFICANT DISCREPANCIES. THE REQUIRED TEST PRESSURE OF 200 PSI IS THE MAXIMUM EXPECTED IN THE PIPE.

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PROJECT REFERENCE NO.

B-4838

SHEET NO.

UC-3C

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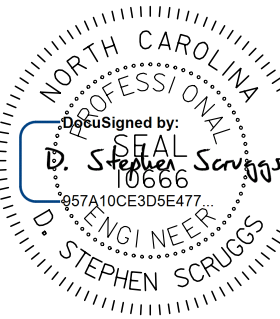
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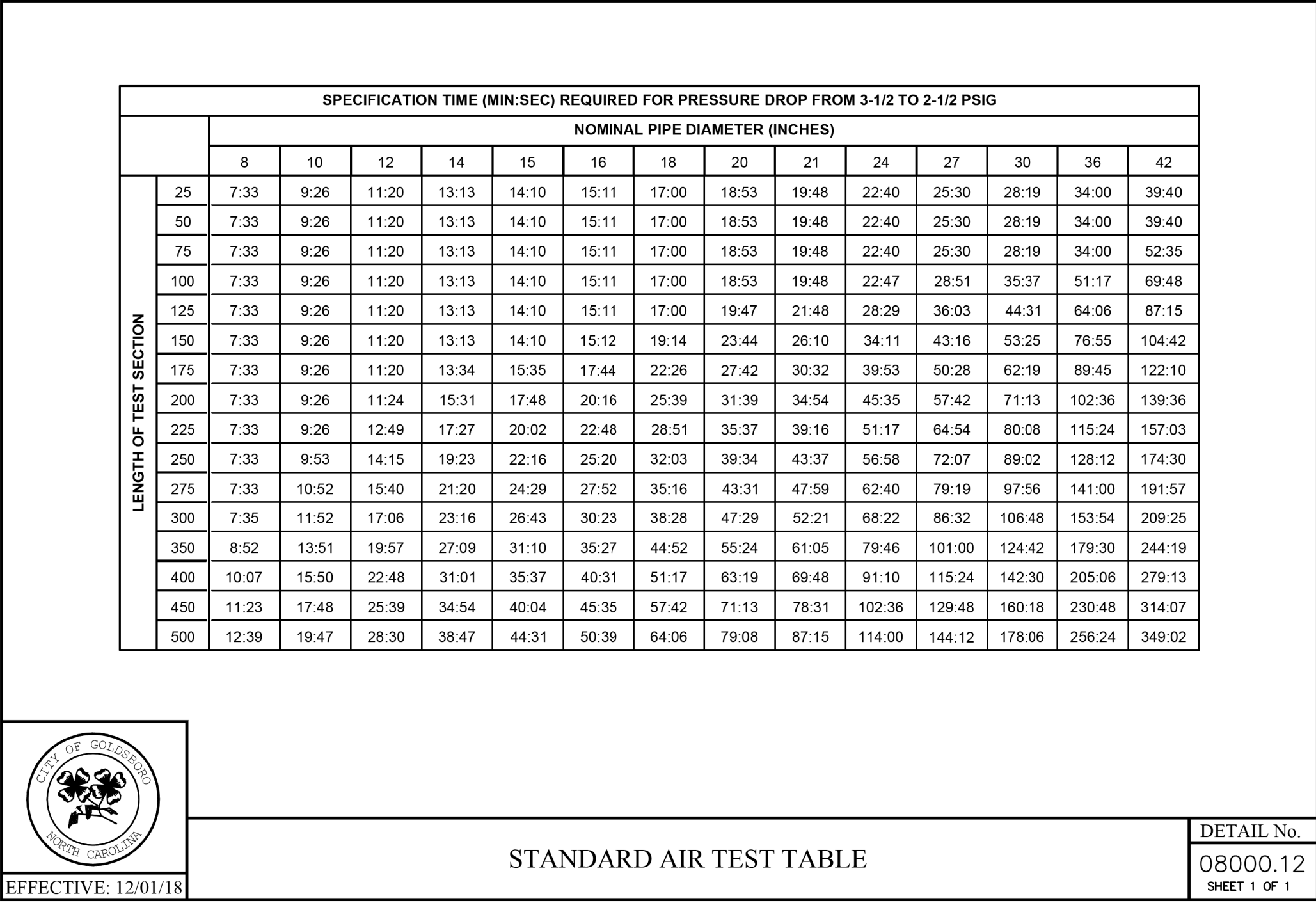
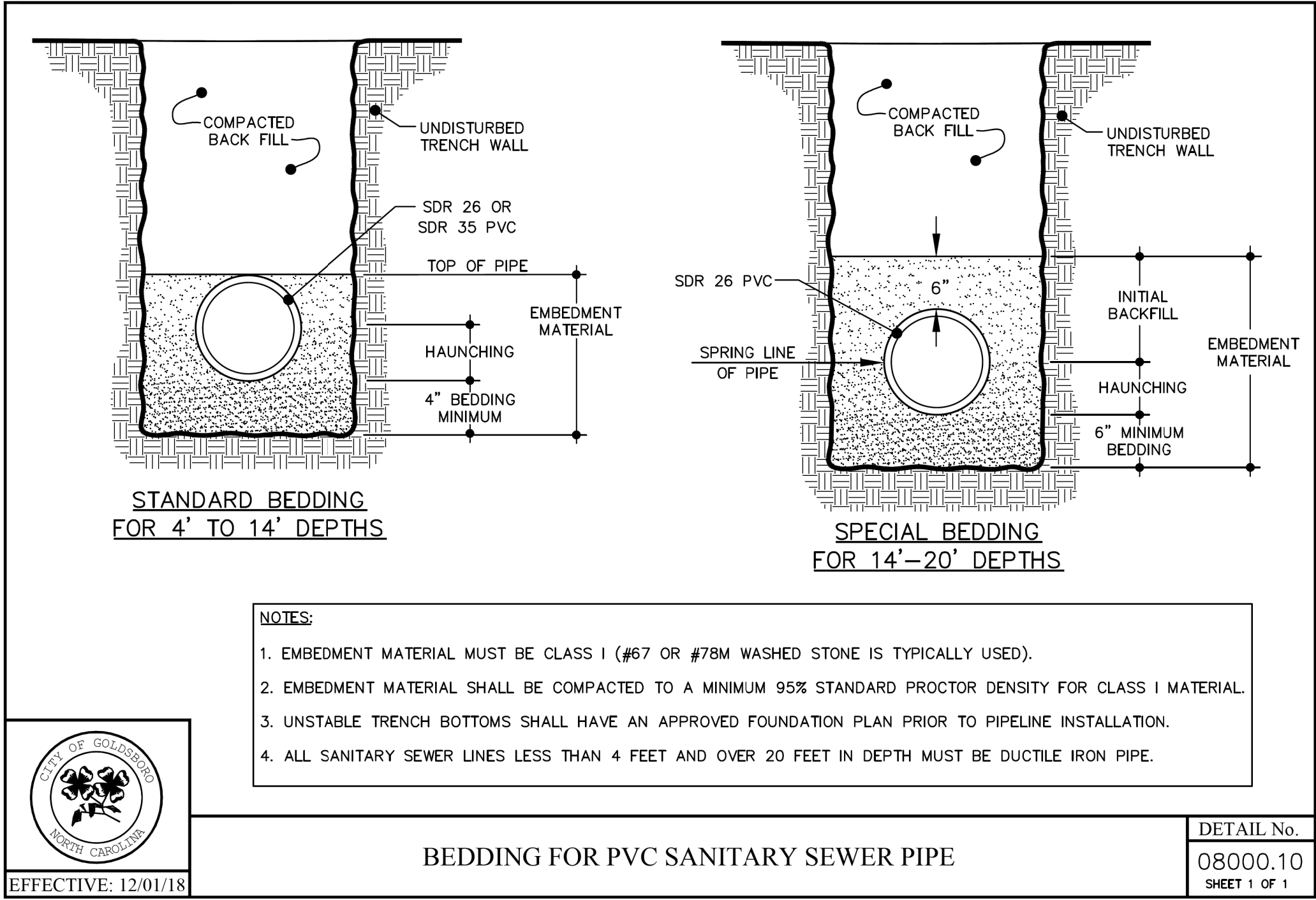
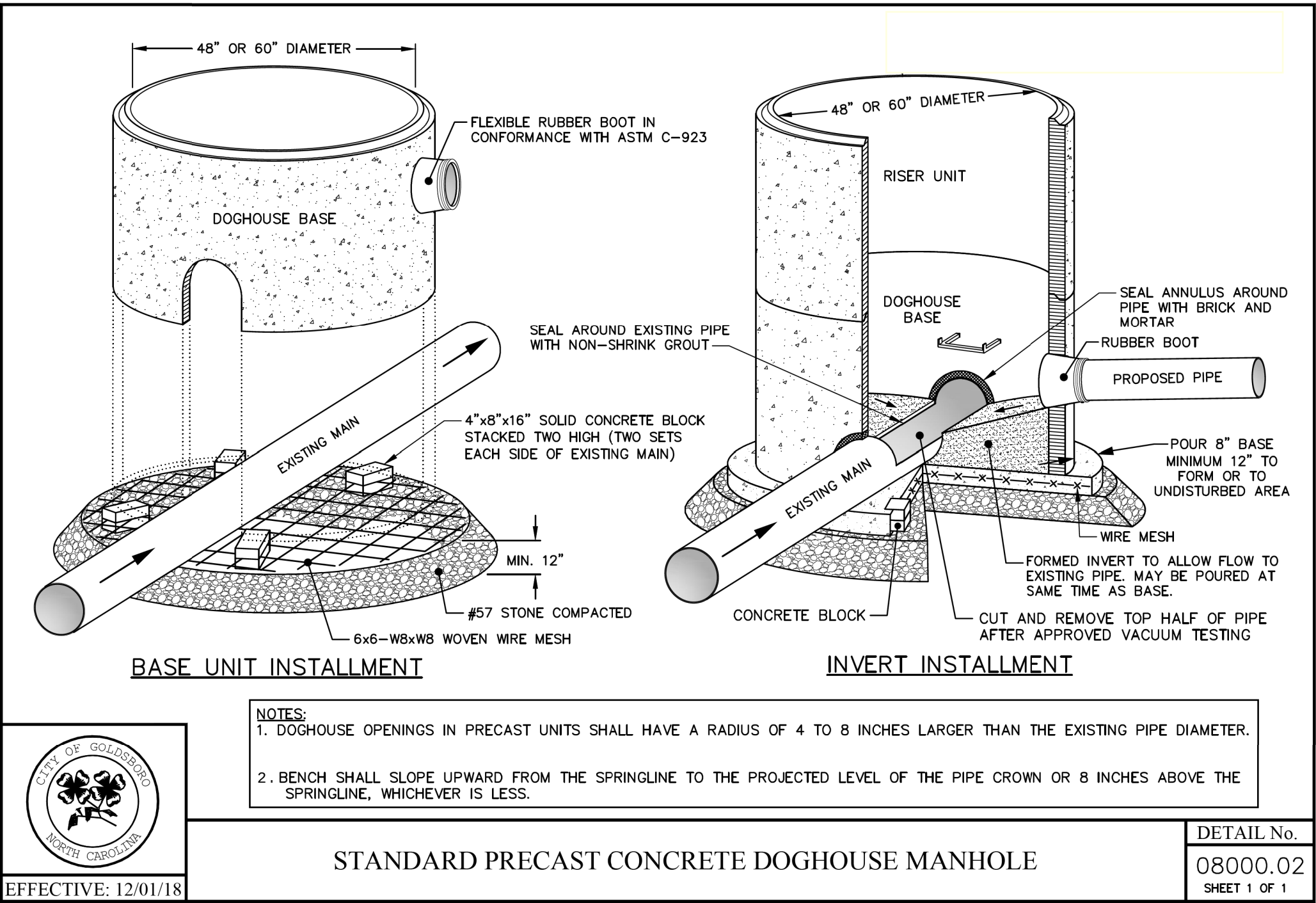
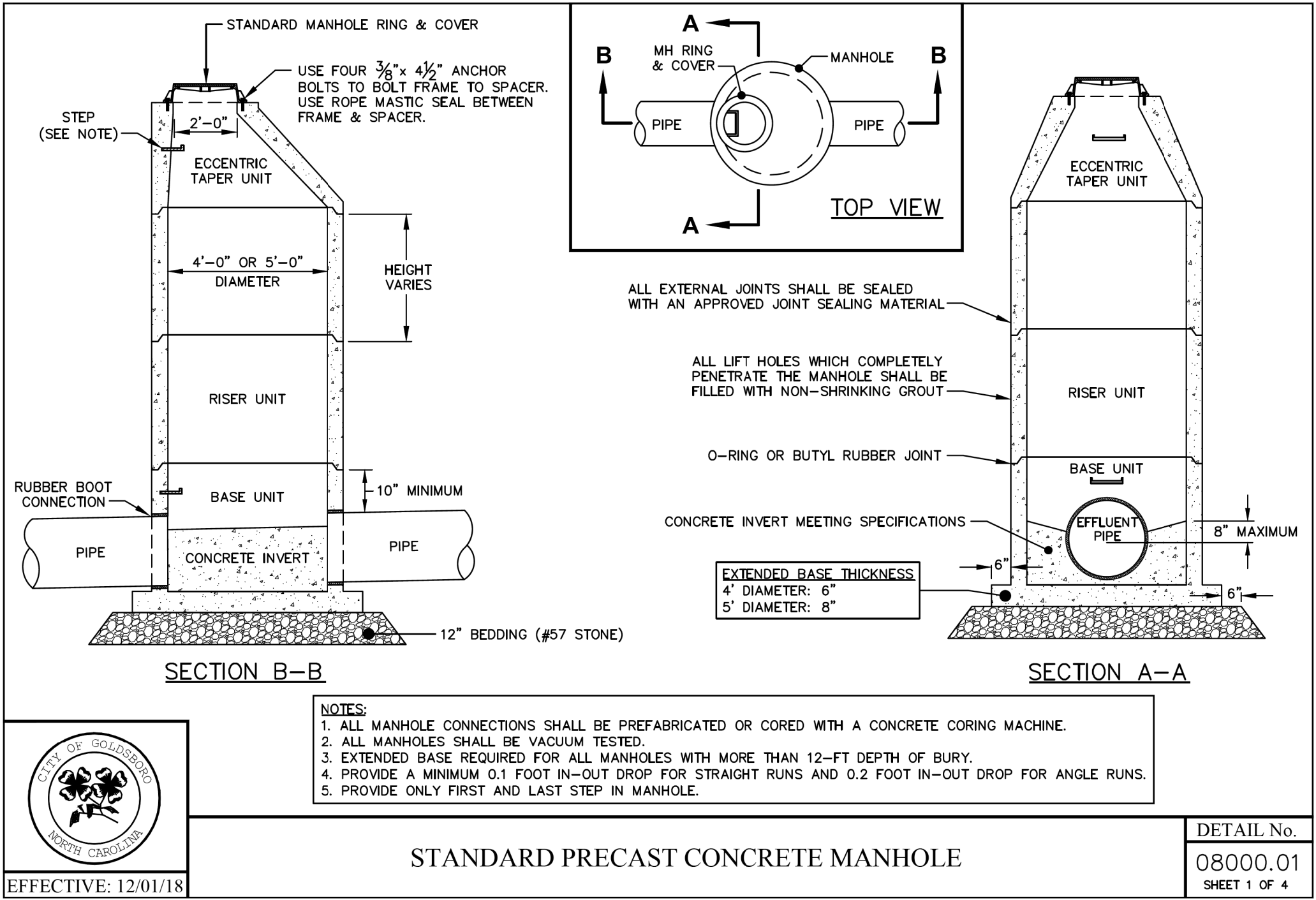
NORTH CAROLINA
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UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151



8/19/2024

UTILITY CONSTRUCTION



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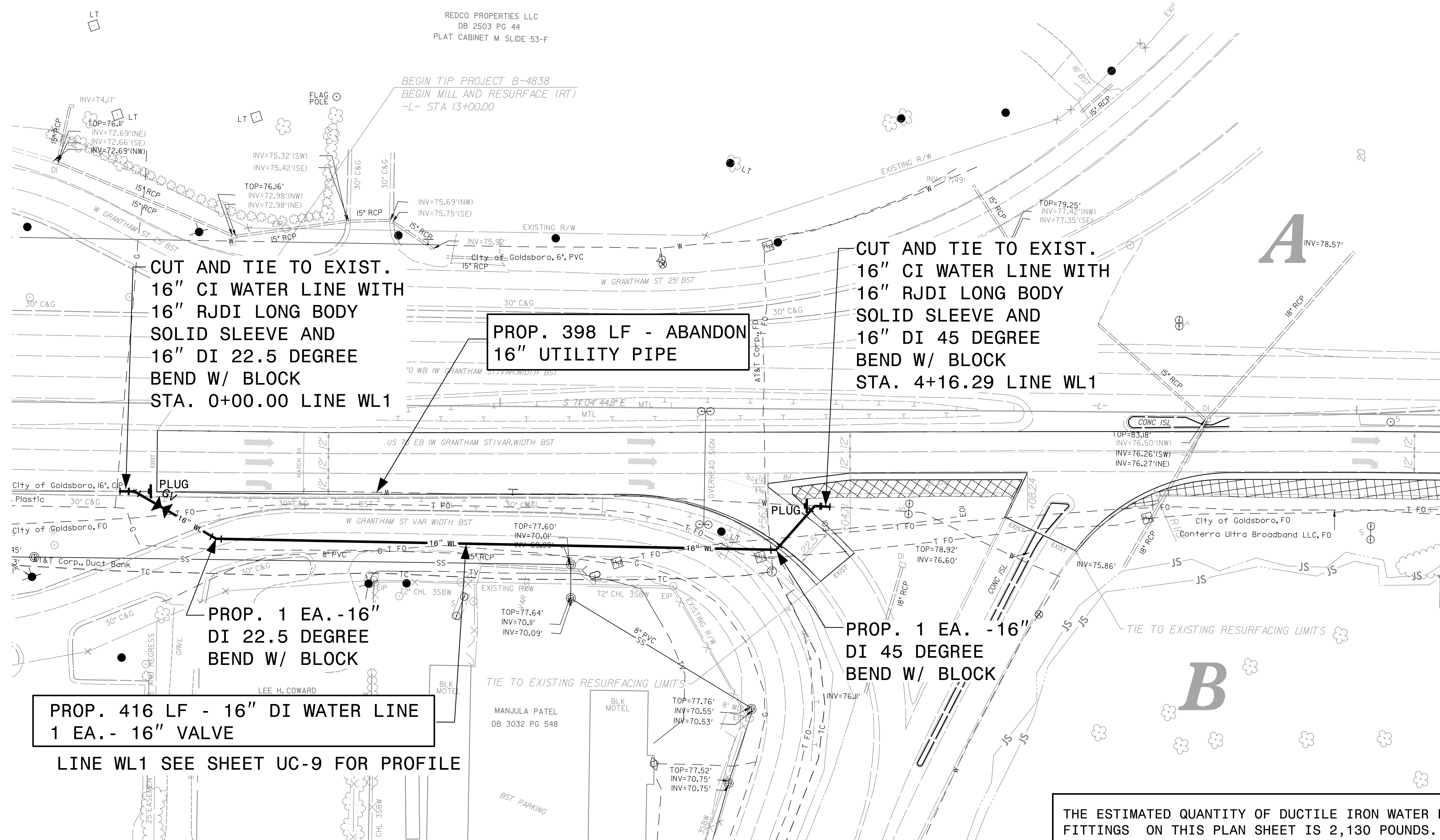
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UTILITY CONSTRUCTION

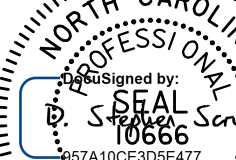


THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,130 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

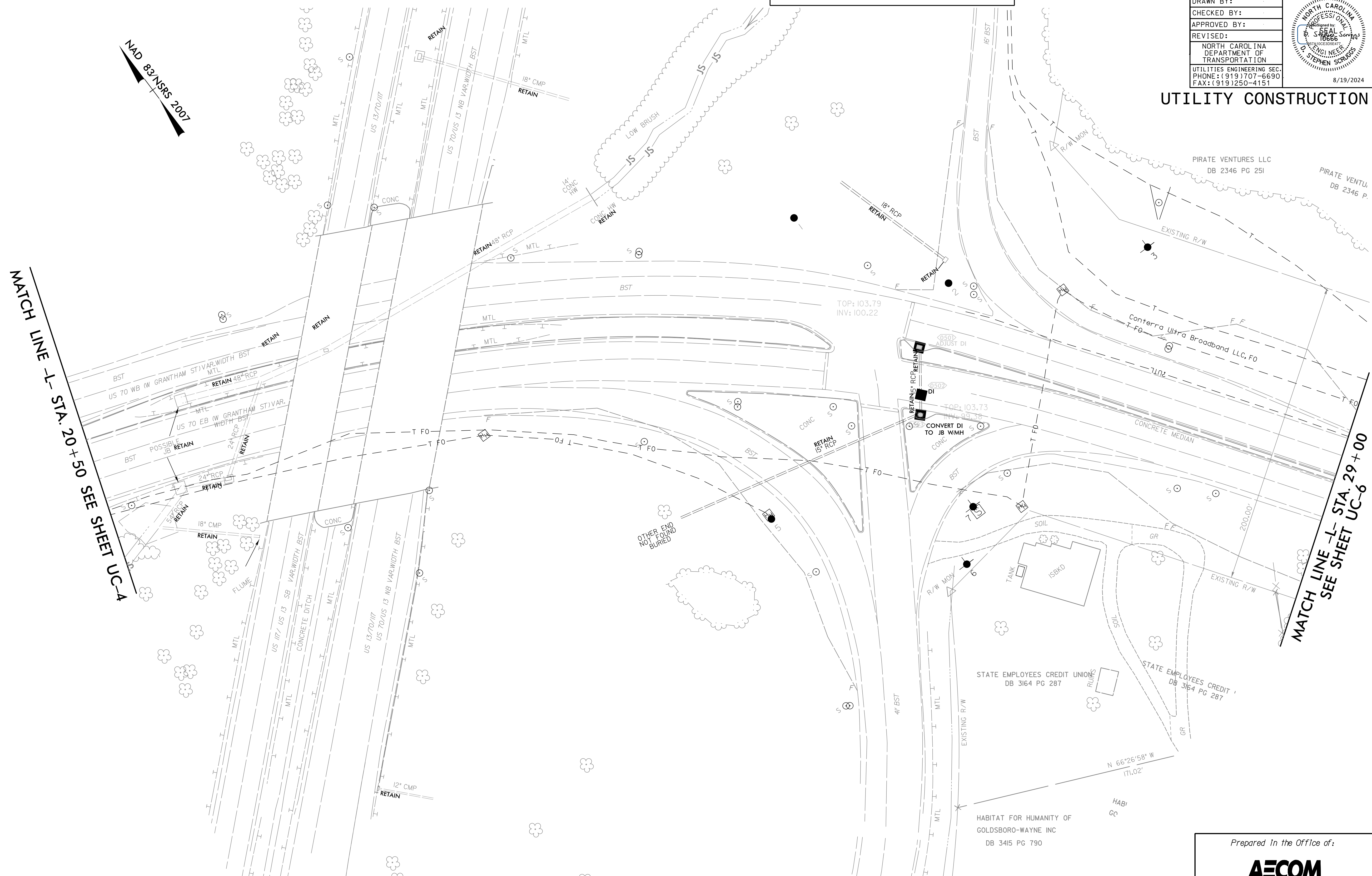
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NO APPARENT UTILITY CONSTRUCTION
CONFLICTS ON THIS SHEET

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PROJECT REFERENCE NO.		SHEET NO.	
B-4838		UC-5	
DESIGNED BY:			
DRAWN BY:			
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APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		8/19/2024	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION



DATE: 8/19/2024
TIME: 9:40:17 AM
DGN: B4838_uc_pst05.dgn

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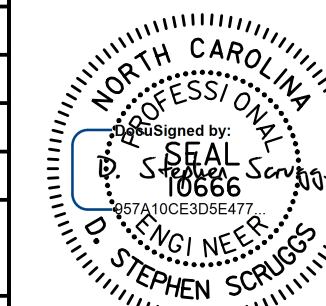
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8/19/2024

UTILITY CONSTRUCTION

PROP. 1 EA. - RELOCATE FIRE HYDRANT
1 EA. - 6" VALVE
6 LF - FIRE HYDRANT LEG

PROP. 1 EA. - 6" x 6" DI TEE W/ BLOCK

PROP. 198 LF - 6" WATER LINE

LINE WL3 SEE SHEET
UC-9 FOR PROFILE

PROP. 6" DI—
45 DEGREE
BEND W/ BLOCK

PROP. 2 EA. - 6" DI 22.5 DEGREE
BEND W/ BLOCK

— PROP. 6" DI 90 DEGREE BEND
W/ BLOCK

PROP. 2 EA. - 6" VALVE

PROP. 2 EA. - 50 LF
WATER SERVICE LINE
2 - RECONNECT WATER METER

PROP. 1 EA. - 4' DIA. UTILITY MANHOLE A1
5.8 LF UTILITY MANHOLE WALL, 4' DIA.

STA. 0+00.00, LINE A
STA. 14+60.48 -Y1 ∓ 07.33

PROP. 680 LF - ABANDON 6" UTILITY PIPE

190 LF - ABANDON 8" UTILITY PIPE

PROP. 102 LF - 8" SANITARY
GRAVITY SEWER

LINE SS1 SEE SHEET UC-9
FOR PROFILE

212' - EXIST. 8" GRAVITY
SEWER AND MANHOLE
PREVIOUSLY ABANDONED

PROP. 1 EA. - 40'
WATER SERVICE LINE
1 EA. - RECONNECT WATER METER

EXIST. 4' DIA. MANHOLE A2
STA. 1+01.92, LINE A
22.45' RT. of -L- $\frac{.61}{3.48} =$
STA. 34+07.26

PROP. 250 LF - 6" WATER LINE
1 EA. - 2" BLOW OFF

LINE WL2 SEE SHEET
UC-9 FOR PROFILE

PROP. 1 EA. - ABANDON UTILITY MANHOLE

PROP. 1 EA. - 6" VALVE

PROP. 6" DI 45 DEGREE
BEND W/ BLOCK

PROP. 1 EA. - 4' DIA.
UTILITY MANHOLE A3
1 EA. - REMOVE UTILITY
MANHOLE

13.6' RT. of -L-
STA. 35+29.66

PROP. 1 EA. - 5 LF
WATER SERVICE LINE
1 EA. - RECONNECT WATER
METER

PROP. 6" DI 11.25 DEGREE
BEND W/ BLOCK

—PROP. 1 EA. - 6" x 6" DI CROSS

CUT AND TIE TO EX.
— 6" AC WATER LINE
WITH 6" RJDI LONG BODY
SOLID SLEEVE & 6" x 45
DEGREE DI BEND W/ BLOCK
STA. 1+86.14
LINE WL3

THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE
FITTINGS ON THIS PLAN SHEET IS 90 POUNDS.THE
ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY
BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,030 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

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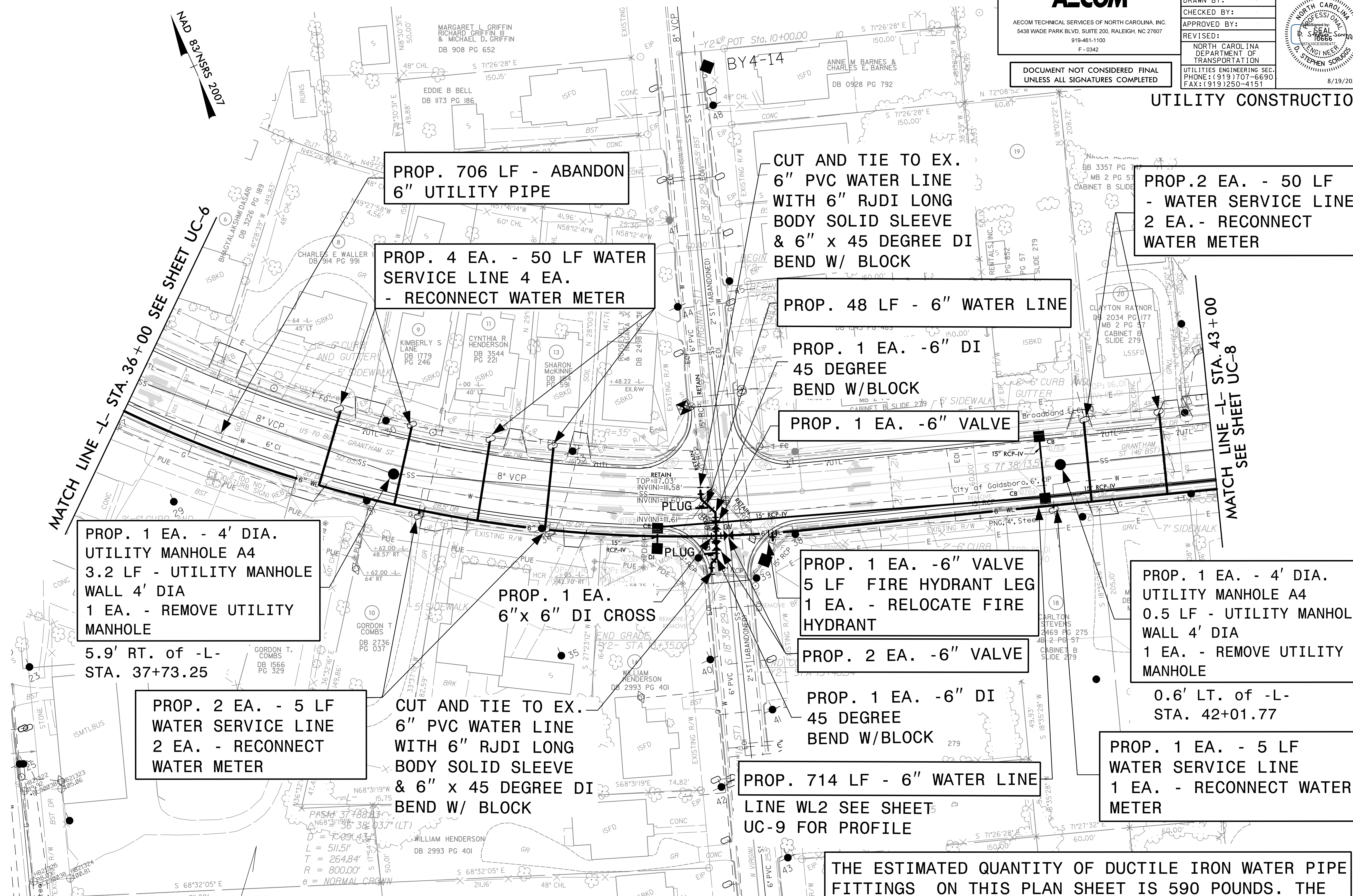
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919-461-1100
F-0342

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PROJECT REFERENCE NO.		SHEET NO.
B-4838		UC-7
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DRAWN BY:		
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APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 AX: (919) 250-4151		
		8/19/20

UTILITY CONSTRUCTION



PROP. 706 LF - ABANDON
6" UTILITY PIPE

PROP. 4 EA. - 50 LF WATER
SERVICE LINE 4 EA.
- RECONNECT WATER METER

CUT AND TIE TO EX.
6" PVC WATER LINE
WITH 6" RJDI LONG
BODY SOLID SLEEVE
& 6" x 45 DEGREE DI
BEND W/ BLOCK

PROP. 2 EA. - 50 LF
- WATER SERVICE LINE
2 EA. - RECONNECT
WATER METER

PROP. 48 LF - 6" WATER LINE

PROP. 1 EA. - 6" DI
45 DEGREE
BEND W/BLOCK

PROP. 1 EA. - 6" VALVE

PROP. 1 EA. - 4' DIA.
UTILITY MANHOLE A4
3.2 LF - UTILITY MANHOLE
WALL 4' DIA
1 EA. - REMOVE UTILITY
MANHOLE

5.9' RT. of -L-
STA. 37+73.25

PROP. 1 EA.
6"x 6" DI CROSS

PROP. 1 EA. - 6" VALVE
5 LF FIRE HYDRANT LEG
1 EA. - RELOCATE FIRE
HYDRANT

PROP. 2 EA. - 6" VALVE

PROP. 1 EA. - 4' DIA.
UTILITY MANHOLE A4
0.5 LF - UTILITY MANHOLE
WALL 4' DIA
1 EA. - REMOVE UTILITY
MANHOLE

0.6' LT. of -L-
STA. 42+01.77

PROP. 2 EA. - 5 LF
WATER SERVICE LINE
2 EA. - RECONNECT
WATER METER

CUT AND TIE TO EX.
6" PVC WATER LINE
WITH 6" RJDI LONG
BODY SOLID SLEEVE
& 6" x 45 DEGREE DI
BEND W/ BLOCK

PROP. 1 EA. - 6" DI
45 DEGREE
BEND W/BLOCK

PROP. 714 LF - 6" WATER LINE
LINE WL2 SEE SHEET
UC-9 FOR PROFILE

PROP. 1 EA. - 5 LF
WATER SERVICE LINE
1 EA. - RECONNECT WATER
METER

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE
FITTINGS ON THIS PLAN SHEET IS 590 POUNDS. THE
ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY
BASED ON FIELD CONDITIONS.

Prepared In the Office of:

AECOM

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PROJECT REFERENCE NO.
B-4838

SHEET NO.
UC-8

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
REVISED BY:

9/11/2024

NORTH CAROLINA
PROFESSIONAL
SEAL
10666

Signature
D. Stephen Scruggs
DATE 10/08/2024

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION

PROP. 50 LF -
WATER SERVICE LINE
1 EA. - RECONNECT
WATER METER

PROP. 115 LF - ABANDON
6" UTILITY PIPE

PROP. 5 LF WATER
SERVICE LINE
1 EA. - RECONNECT
WATER METER

PROP. 120 LF - 6" WATER LINE

LINE WL2 SEE SHEET
UC-9 FOR PROFILE

PROP. 1 EA. - 6"
DI 45 DEGREE
BEND W/ BLOCK

CUT AND TIE TO EX.
6" CI WATER LINE
WITH 6" RJDI LONG
BODY SOLID SLEEVE
& 6" x 45 DEGREE DI
BEND W/ BLOCK
STA. 10+96.94
LINE WL2

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE
FITTINGS ON THIS PLAN SHEET IS 240 POUNDS. THE
ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY
BASED ON FIELD CONDITIONS.

