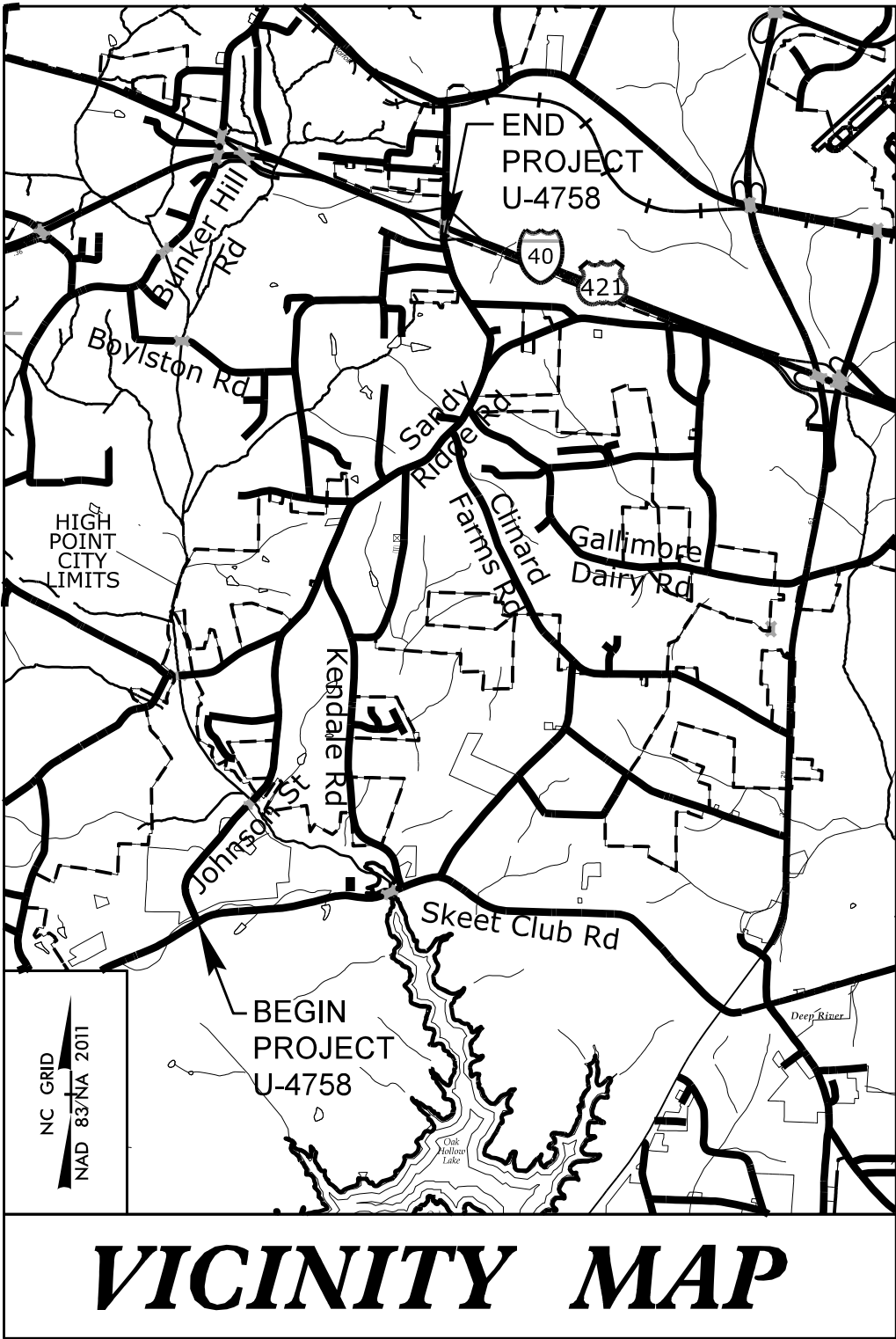




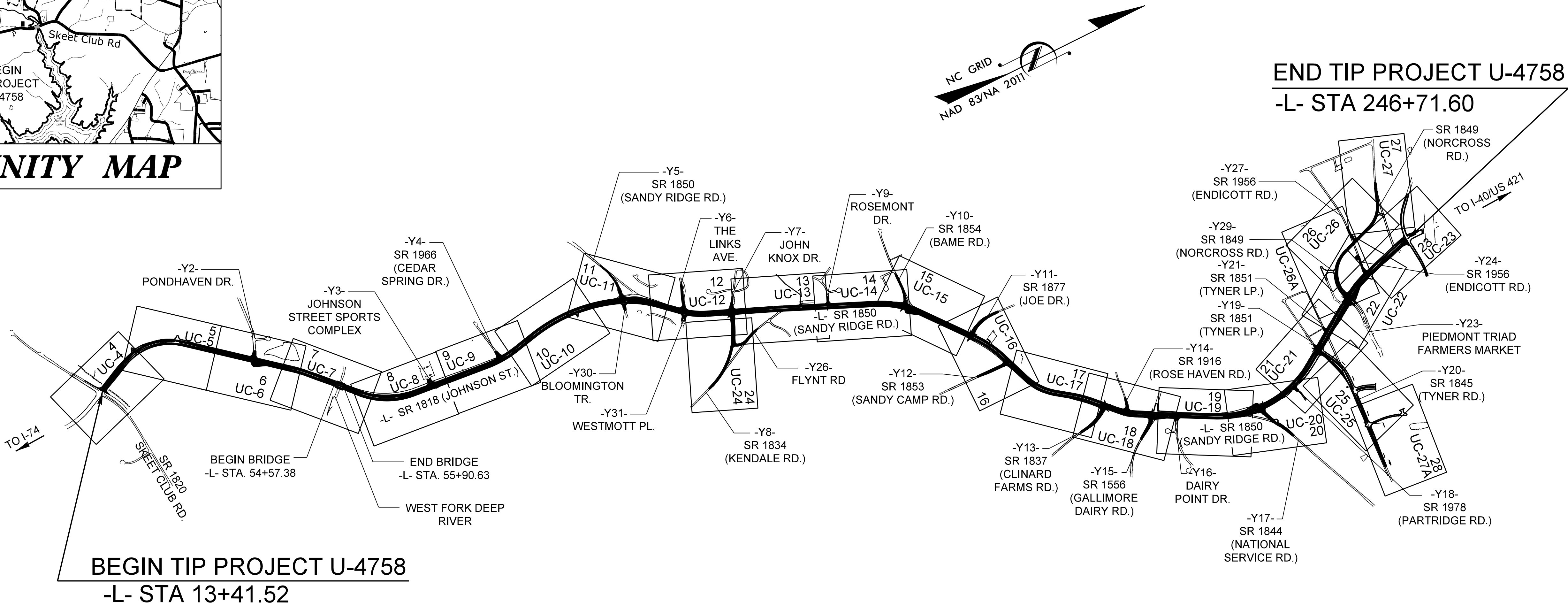
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
GUILFORD COUNTY

LOCATION: SR 1818 (JOHNSON STREET) /SR 1850 (SANDY RIDGE ROAD) FROM
SR 1820 (SKEET CLUB ROAD) TO SOUTH OF I-40 IN HIGH POINT

TYPE OF WORK: UTILITY CONSTRUCTION

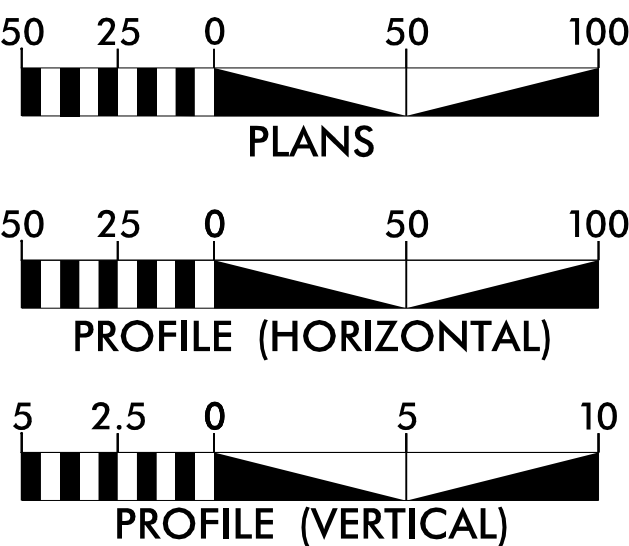


END TIP PROJECT U-4758
-L- STA 246+71.60

BEGIN TIP PROJECT U-4758
-L- STA 13+41.52

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	CONSTRUCTION SEQUENCE
UC-3B THRU UC-3F	DETAILS
UC-4 THRU UC-27A	UTILITY CONSTRUCTION SHEETS
UC-28 THRU UC-33	PROFILE SHEETS

WATER AND SEWER
OWNERS ON PROJECT

- A) WATER - CITY OF HIGH POINT
B) SEWER - CITY OF HIGH POINT
C) SEWER - NC DEPARTMENT OF
ADULT CORRECTION

PREPARED IN THE OFFICE OF:

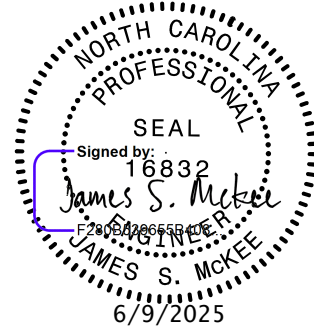
DAVIS • MARTIN • POWELL
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WWW.DMP-INC.COM LICENSE: F-0245



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Randy McNeill, P.E.	CONSULTANT CONTACT #2
Kyle Stalls	CONSULTANT CONTACT #3

SEAL



DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICE CENTER
RALEIGH NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Amy York	CENTRAL UTILITIES MANAGER
Ali Kouchehi, P.E.	REGIONAL UTILITIES ENGINEER
Douglas Joyner	SENIOR UTILITIES ENGINEER
Dayton Martin	REGIONAL UTILITY COORDINATOR

5/14/99

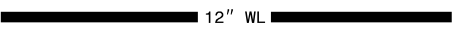
5/14/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

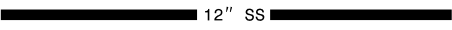
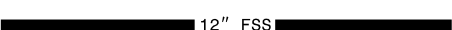
UTILITIES PLAN SHEET SYMBOLS

PROJECT REFERENCE NO.	SHEET NO.
U-4758	UC-2

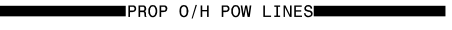
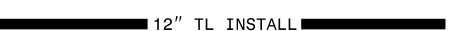
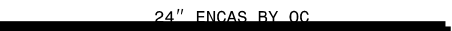
PROPOSED WATER SYMBOLS

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	

NOTE

PAY ITEM

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)	

CONSTRUCTION SEQUENCE FOR 16" WATER MAIN

CONSTRUCTION SEQUENCE FOR 16" WATER MAIN LOCATED ALONG JOHNSON ST AND SANDY RIDGE RD:
THE CONTRACTOR SHALL FOLLOW THIS SEQUENCE OF CONSTRUCTION FOR ALL WORK ASSOCIATED WITH IMPACTS OR RELOCATIONS OF THE EXISTING 16" MAIN ALONG THE ENTIRE PROJECT ROUTE. THE CONTRACTOR SHALL COORDINATE THESE CONSTRUCTION SEQUENCE REQUIREMENTS WITH NCDOT AND THE CITY OF HIGH POINT.
NOTE: THE EXISTING SANDY CAMP RD GROUND STORAGE WATER TANK IS FILLED FROM LINES THAT GO DOWN SANDY CAMP RD TO SANDY RIDGE RD FROM THE 16" MAIN THAT RUNS ALONG SANDY RIDGE RD AND JOHNSON ST. THE TANK CAN BE FILLED FROM THE EASTERN OR WESTERN SUPPLY. THE EASTERN SUPPLY COMES DOWN TYNER RD. THE WESTERN SUPPLY COMES UP JOHNSON ST. FROM SKEET CLUB RD. THE WATER TANK IS REFILLED NIGHTLY FROM 6:30 PM TO 4:30 AM AT A RATE OF APPROXIMATELY 1190 GPM. DURING THE DAY FROM 6:30 AM TO 6:30 PM THE BOOSTER PUMP AT THE TANK PUMPS APPROXIMATELY 990 GPM TO HELP SUPPLEMENT PRESSURE TO THE PUMPS SERVICE AREA.
NO OUTAGES FOR WATER LINE RELOCATION TIE-INS SHALL BE CONDUCTED BETWEEN 6:30 PM AND 4:30 AM EVERY EVENING AND EARLY MORNING DAILY.

PHASE 1 CONSTRUCTION SEQUENCE WATER LINE MODIFICATION CAN BE CONDUCTED BETWEEN 7:00 AM TO 4:30 PM WORK DAYS ALONG JOHNSON ST FROM SKEET CLUB RD TO SANDY CAMP RD WATERLINE WORK. FILL WATER TANK FROM THE EASTERN SUPPLY LINE.

1.

CONSTRUCT ALL WATER IMPROVEMENTS SOUTH OF BLOOMFIELD TR (UC-11) TO SKEET CLUB RD. NOTE: EXIST WV SOUTH OF BALLFIELD CAN BE USED TO PHASE THIS AREA IN HALF.

A.

INSTALL LINE STOP AND WV SOUTH OF BLOOMFIELD TRAIL ON JOHNSON ST.

1.

ENSURE WATER IS FED WEST OF JOHNSON ST DOWN SANDY RIDGE RD TO LEGACY AT SANDY RIDGE SUBDIVISION AND THE WESLEYAN ATHLETIC COMPLEX FROM THE NORTH

2.

ENSURE WATER IS FED EAST OF JOHNSON ST DOWN BLOOMFIELD TRAIL TO THE WESTMORELAND PLACE SUBDIVISION

3.

ENSURE WATER VALVE AT OWLS VIEW LAND IS CLOSED AND WATER IS SUPPLIED TO WESTMORELAND PLACE SUBDIVISION FROM BLOOMFIELD TRAIL

B.

ENSURE WATER IS LOOPED AND FED INTO THE MEADOW CREEK SUBDIVISION FROM SKEET CLUB RD

C.

COORDINATE ANY FUTURE TIE-INS WITH BECKETT TOWNES (UNDER CONSTRUCTION)

D.

COORDINATE WITH COHP PARKS AND REC REGARDING WATER SHUT-OFF AT JOHNSON STREET ATHLETIC COMPLEX

E.

MINIMAL IMPACTS TO RESIDENTS REGARDING WATER SHUTOFF

2.

CONSTRUCT ALL WATER IMPROVEMENTS FROM THE BFV SOUTH OF WESTMOTT PL (AKA THE LINKS AVE) TO THE INTERSECTION OF SANDY RIDGE RD AND BLOOMFIELD TR.

A.

NOTE: BLOOMFIELD TR CAN BE SHUT OFF AT THE INTERSECTION OF STREAM EDGE PL AND THE VALVE AT SANDY RIDGE RD. WESTMORELAND PLACE SUBD WILL BE FED FROM THE WATER IN OWLS VIEW LANE.

B.

CONNECT TO THE 12" WATERLINE AT BLOOMFIELD TR AND INSTALL 12" AND 16" LINES WITH VALVES TO SANDY RIDGE RD. PRESSURE TEST AND CHLORINATE. THIS WILL LIKELY BE AN OPEN CUT INSTALLATION.

C.

TIE TO AND PLUG THE 12" WATERLINE ON SANDY RIDGE ROAD, THIS WILL REQUIRE A SHUTDOWN FOR WESLEYAN ATHLETIC COMPLEX AND LEGACY AT SANDY RIDGE SUBD (APPROX. 106 RESIDENTIAL HOUSES).

D.

TIE TO AND PLUG 16" WATERLINES RUNNING NORTH/SOUTH ALONG JOHNSON ST

E.

RUN TEMP. SERVICE TO AMBULANCE (2011 SANDY RIDGE ROAD) IF LONGTERM SHUTDOWN IS REQUIRED.

3.

CONSTRUCT ALL WATER IMPROVEMENTS FROM JUST SOUTH OF JOHN KNOX DRIVE (PRIVATE) AKA KENDALE DRIVE NEW ALIGNMENT TO THE WATER VALVE JUST SOUTH OF WESTMONT PLACE (EXST BFV)

A.

A JUMPER HOSE MAY BE REQUIRED TO FEED THE PRIVATE PORTION OF THE LANDING AT WESTMONT S/D. RECOMMEND CONNECTING TO THE FH ON KENDALE ROAD AND RUNNING IT BETWEEN UNITS 2183/2175 (~350') IF UNEXPECTED CIRCUMSTANCES ARE ENCOUNTERED.

4.

CONSTRUCT ALL WATER IMPROVEMENTS ALONG KENDALE ROAD

A.

ENSURE ALDERBROOK SUBDIVISION IS LOOPED AND FED THRU LILLIEFIELD SUBDIVISION FROM BARROW RD

B.

SHUTOFF IMPACTS TO 4515 AND 4517 KENDALE RD, LIKELY 1-3 DAYS DURING DAYTIME.

5.

CONSTRUCT ALL WATER IMPROVEMENTS FROM JUST NORTH OF ROSEMONT DRIVE TO JUST SOUTH OF JOHN KNOX DRIVE (PRIVATE)

A.

INSTALL LINE STOP AND NEW WV BETWEEN JOHN KNOX DRIVE AND THE LINKS DRIVE

B.

INSTALL LINE STOP AND NEW WV JUST NORTH OF ROSEMONT DRIVE

C.

ENSURE THAT WATER IS BEING FED INTO RIVER LANDING FROM THE LINKS DRIVE. CLOSE WV FEEDING INTO JOHN KNOX DR.

D.

CLOSE VALVE FEEDING INTO ROSEMONT DR AND ENSURE SADDLEBROOK SUBDIVISION IS BEING FED FROM BAME RD.

E.

CONSTRUCT IMPROVEMENTS

F.

ISSUE FOR WATER SERVICE AT COMMERCIAL BUILDING SOUTH OF ROSEMONT DRIVE ON THE WEST SIDE (2109 SANDY RIDGE RD). POSSIBLE IMPACTS COULD BE FOR MULTIPLE DAYS, ADD A 16" LINE STOP AND/OR 16" TO REDUCE THE IMPACTS WHEN PRESSURIZED FROM THE NORTH.

6.

CONSTRUCT ALL WATER IMPROVEMENTS ALONG BAME ROAD AND SANDY RIDGE RD FROM JUST NORTH OF JOE DRIVE TO ROSEMONT DRIVE

A.

INSTALL LINE STOP ON THE EAST SIDE OF 8610 BAME RD WATER SERVICE

B.

SHUT THE NORTHWEST WATER SYSTEM VALVE IN SANDY RIDGE RD

C.

SHUT THE EXISTING BUTTERFLY VALVE JUST NORTH OF JOE DRIVE. THE OPEN/CLOSE ON WHEEL IS POSSIBLY REVERSED.

D.

INSTALL LINE STOP AND NEW 16" WV NORTH OF THE FIRE STATION (2127) TO KEEP THEIR WATER SERVICE FLOWING

E.

CONSTRUCT THE LOWERING OF THE WATER ON BAME RD

F.

ENSURE THAT THE 16" WATER IS BEING FED THRU THE SADDLEBROOK SUBDIVISION 8" WATER LINE. THIS WILL ALLOW FLOWS TO NORTHBOROUGH SUBD, DEERFIELD CROSSING SUBD, GRAYS LANDING APTS IN KERNSERVILLE AT I-40, AND THE NEW INDUSTRIAL PIEDMONT COMMERCE DEVELOPMENTS. IT IS LIKELY POSSIBLE THAT WATER CAN ALSO BE SUPPLIED TO THESE DEVELOPMENTS FROM THE NEW GALLIMORE DAIRY RD EXTENSION PROJECT.

G.

REDUCED FIRE FLOWS, MINIMAL IMPACTS TO WATER SERVICE

7.

CONSTRUCT ALL WATER IMPROVEMENTS FROM SANDY CAMP RD TO JUST NORTH OF JOE DR

A.

SHUTOFF WV NORTH OF JOE DR (THE OPEN/CLOSE ON WHEEL IS POSSIBLY REVERSED) AND SHUTOFF WV ON THE WEST SIDE OF SANDY CAMP RD IN FRONT OF THE WATER TANK.

B.

IMPACTS TO NCDOT MAINT YARD (DEPT OF CORRECTIONS) WILL LIKELY BE 1-2 DAYS DURING DAYTIME HOURS TO CONSTRUCT THE WATER IMPROVEMENTS ALONG SANDY CAMP RD

PHASE 2 CONSTRUCTION SEQUENCE WATER LINE MODIFICATION CAN BE CONDUCTED BETWEEN 7:00 AM TO 4:30 PM WORK DAYS ALONG SANDY RIDGE RD FROM THE BOOSTER PUMP STATION ON SANDY CAMP RD TO THE FARMERS MARKET. FILL WATER TANK FROM THE WESTERN SUPPLY LINE

8.

CONSTRUCT ALL WATER IMPROVEMENTS FROM GALLIMORE DAIRY RD TO SANDY CAMP RD

A.

IMPACTS TO 2406 SANDY RIDGE RD WATER SERVICE (RESIDENTIAL) CAN BE MITIGATED BY CLOSING THE EXISTING VALVE NORTH OF CLINARD FARMS ROAD AND LEAVING THE WATERLINE PRESSURIZED FROM SANDY RIDGE RD TO THE PROPOSED LINE STOP AND WATER VALVE SOUTH OF TYNER RD SINCE NO SHUTDOWN IS ANTICIPATED FOR THIS AREA

B.

INSTALL LINE STOP AND WATER VALVE ON THE SANDY CAMP RD EASTERN WATERLINE

C.

CONSTRUCT WATER IMPROVEMENTS BETWEEN SANDY CAMP RD AND CLINARD FARMS RD

D.

INSTALL LINE STOP AND WATER VALVE JUST NORTH OF GALLIMORE DAIRY RD AND JUST NORTH OF THE EXISTING FIRE HYDRANT

E.

CONSTRUCT WATER IMPROVEMENTS BETWEEN CLINARD FARMS RD AND GALLIMORE DAIRY RD.

F.

MINIMAL IMPACTS TO WATER SERVICE

9.

CONSTRUCT ALL WATER IMPROVEMENTS FROM TYNER RD TO JUST SOUTH OF DAIRY POINT DR

A.

CLOSE THE EXISTING 2 WATER VALVES AT TYNER RD. A JUMPER HOSE WILL BE REQUIRED (~85') TO PROVIDE WATER SERVICE TO THE NORTHERN PORTION OF SANDY RIDGE RD. THE JUMPER HOSE SHOULD BE RIGGED FROM FH TO FY AT THE OLD TYNER RD INTERSECTION.

B.

INSTALL LINE STOP AND INSTALL WATER VALVE NORTH OF GALLIMORE DAIRY RD

C.

INSTALL JUMPER HOSE FROM THE FH NORTH OF GALLIMORE DAIRY RD TO THE FH ON DEVANE CT, APPROX 200' AND ENERGIZE IT. CLOSE THE VALVE AT DAIRY POINT DR NEAR SANDY RIDGE RD. ANOTHER OPTION WOULD BE TO INSTALL AN ADDITIONAL LINE STOP NORTH OF DAIRY POINT AND ENSURE THAT FRAZIER DOWNS IS FED FROM THE SOUTH.

10.

CONSTRUCT ALL WATER IMPROVEMENTS ALONG TYNER ROAD

A.

ENSURE WATER IS FED TO FARMERS MARKET FROM SANDY RIDGE RD

B.

WILL REQUIRE COORDINATION WITH FARMERS MARKET FOR TURNING OF INTERNAL VALVES

C.

UNKNOWN TAP LOCATION OF 2914 OPEN BAY BUILDING

11.

CONSTRUCT ALL WATER IMPROVEMENTS NORTH OF TYNER RD

A.

ENSURE FARMERS MARKET WATER IS LOOPED AND FED FROM TYNER RD CONNECTION

B.

COORDINATE WATER SHUTOFF WITH CHEERWINE AS REQUIRED

C.

TYNER LOOP (WEST) WILL BE FED FROM THE SOUTH (HOME DETECTIVE BUILDING)

D.

MINIMAL IMPACTS DUE TO FEW IMPROVEMENTS MADE WITHIN THIS AREA

PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-3A
DESIGNED BY: DMP	NORTH CAROLINA PROFESSIONAL SEAL signed by 18832 James S. Moore 3/21/2025	
DRAWN BY: DMP		
CHECKED BY: DMP		
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4131		

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION PLANS PREPARED BY:

DAVIS • MARTIN • POWELL

ENGINEERS & SURVEYORS

6415 OLD PLANK RD, HIGH POINT, NC 27265

PHONE: (336)886-4821 FAX: (336)886-4458

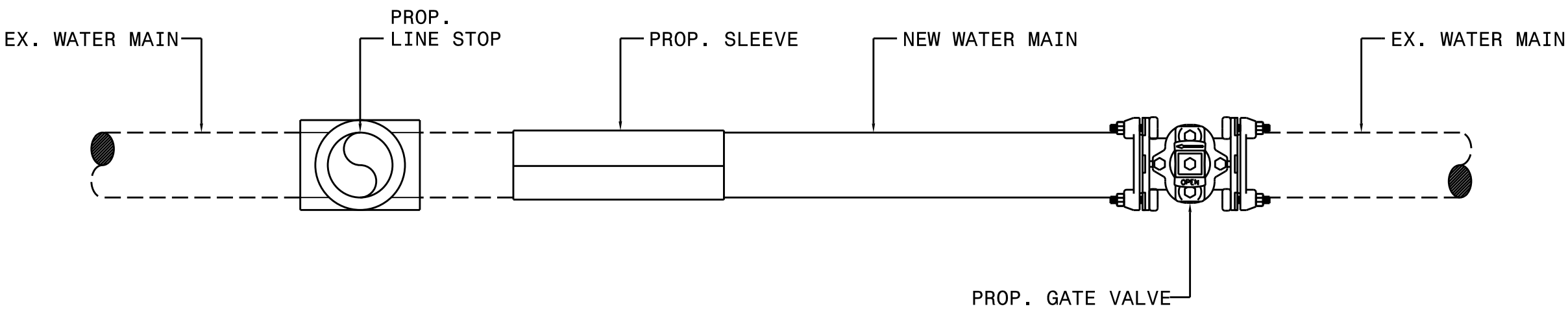
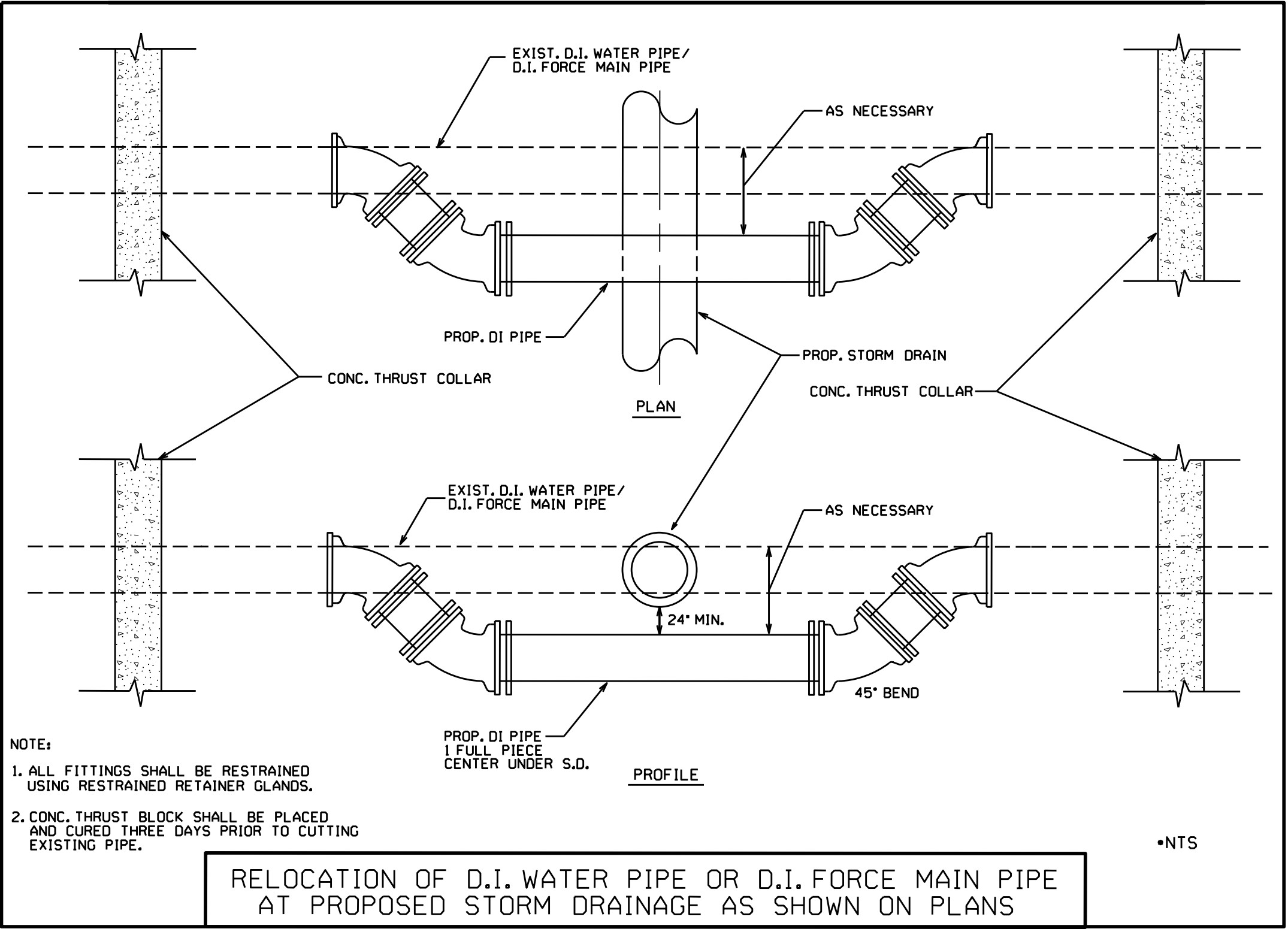
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dmp

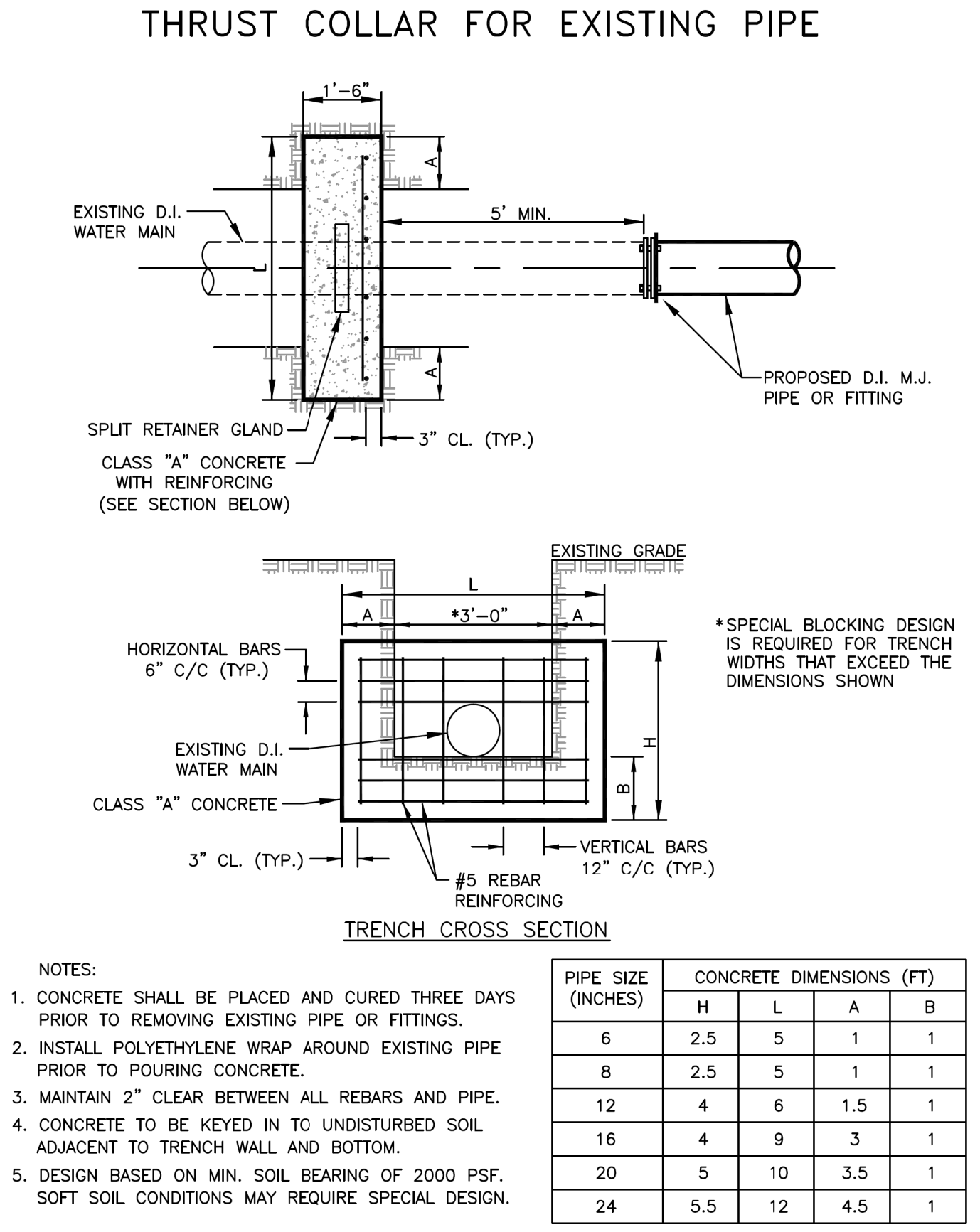
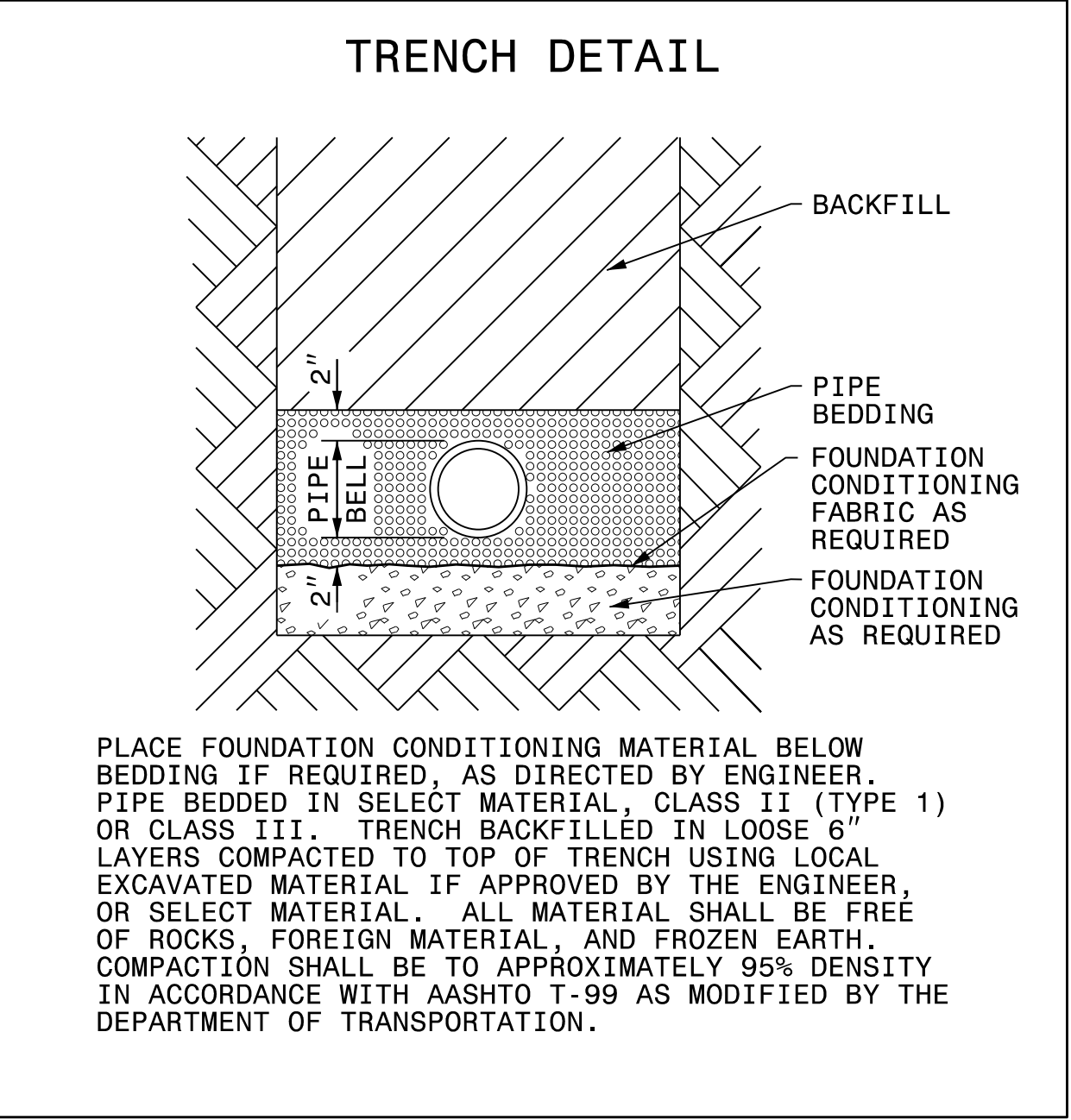
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REVISIONS

PROJECT TYPICAL DETAILS



TYPICAL NO SHUT DOWN TIE-IN DETAIL
NOT TO SCALE



ACKNOWLEDGMENT: DETAIL IS FROM CITY OF WINSTON-SALEM ENGINEERING DEPT.

PROJECT REFERENCE NO.
U-4758

SHEET NO.
UC-3B

DESIGNED BY: **DMP**

DRAWN BY: **DMP**

CHECKED BY: **DMP**

APPROVED BY:

REVISED:

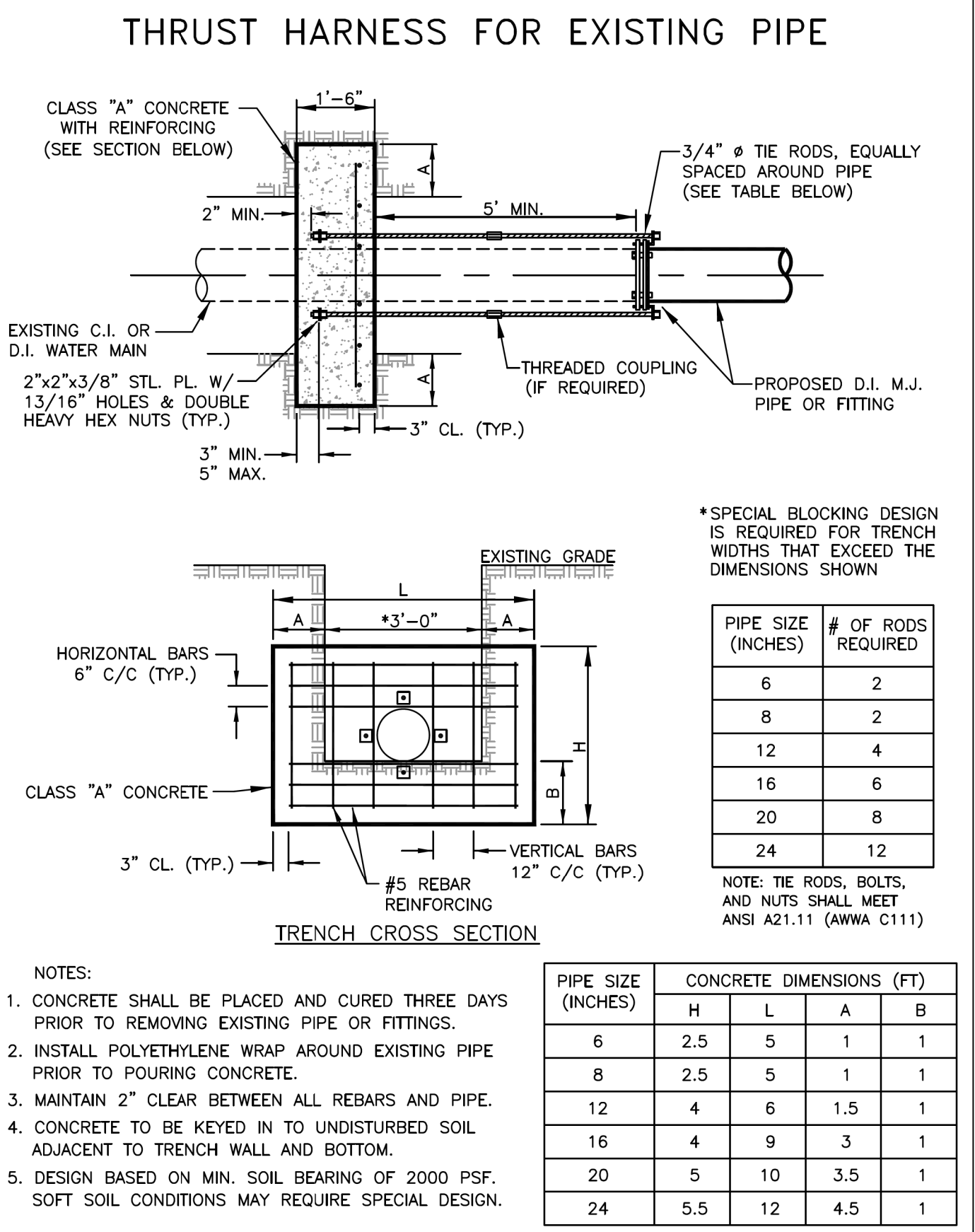
NORTH CAROLINA PROFESSIONAL SEAL
Signed: 76832
James S. Miller
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
3/21/2025

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

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION
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MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42	60	84



ACKNOWLEDGMENT: DETAIL IS FROM CITY OF WINSTON-SALEM ENGINEERING DEPT.

PROJECT TYPICAL DETAILS

CARSON-11182520 HEAVYWALL BOX W/ TRICAST-MS-CP1118 LID

STANDARD DRAWING FOR
3/4" WATER METER BOX
FOR USE WITH 3/4" WATER SERVICES

202.00

SHEET 1 OF 2

CARSON-11182520 HEAVYWALL BOX W/ TRICAST-MS-CP1118 LID

STANDARD DRAWING FOR
3/4" WATER METER BOX
FOR USE WITH 3/4" WATER SERVICES

202.00

SHEET 2 OF 2

5/8" x 3/4" WATER METER SETTER
FOR 3/4" WATER SERVICE

STANDARD DRAWING FOR
5/8" x 3/4" WATER METER SETTER
FOR 3/4" WATER SERVICE

206.00

SHEET 1 OF 1

1" WATER METER BOX
FOR USE WITH 1" WATER SERVICES

STANDARD DRAWING FOR
1" WATER METER BOX
FOR USE WITH 1" WATER SERVICES

203.00

SHEET 1 OF 1

1" WATER METER SETTER
FOR 1" WATER SERVICE

STANDARD DRAWING FOR
1" WATER METER SETTER
FOR 1" WATER SERVICE

207.00

SHEET 1 OF 1

3/4" AND 1" SERVICE LINE INSTALLATION (REHAB.)
FOR REHABILITATION OF 3/4" AND 1" WATER SERVICES

STANDARD DRAWING FOR
3/4" AND 1" SERVICE LINE INSTALLATION (REHAB.)
FOR REHABILITATION OF 3/4" AND 1" WATER SERVICES

210.00

SHEET 1 OF 1

1 1/2" AND 2" WATER METER BOX
FOR USE WITH 1 1/2" AND 2" WATER SERVICES

STANDARD DRAWING FOR
1 1/2" AND 2" WATER METER BOX
FOR USE WITH 1 1/2" AND 2" WATER SERVICES

205.00

SHEET 1 OF 1

1 1/2" WATER METER SETTER
FOR 1 1/2" WATER SERVICE

STANDARD DRAWING FOR
1 1/2" WATER METER SETTER
FOR 1 1/2" WATER SERVICE

208.01

SHEET 1 OF 1

1 1/2" AND 2" SERVICE LINE INSTALLATION (REHAB.)
FOR REHABILITATION OF 1 1/2" AND 2" WATER SERVICES

STANDARD DRAWING FOR
1 1/2" AND 2" SERVICE LINE INSTALLATION (REHAB.)
FOR REHABILITATION OF 1 1/2" AND 2" WATER SERVICES

211.00

SHEET 1 OF 1

PROJECT REFERENCE NO. U-4758 SHEET NO. UC-3C

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

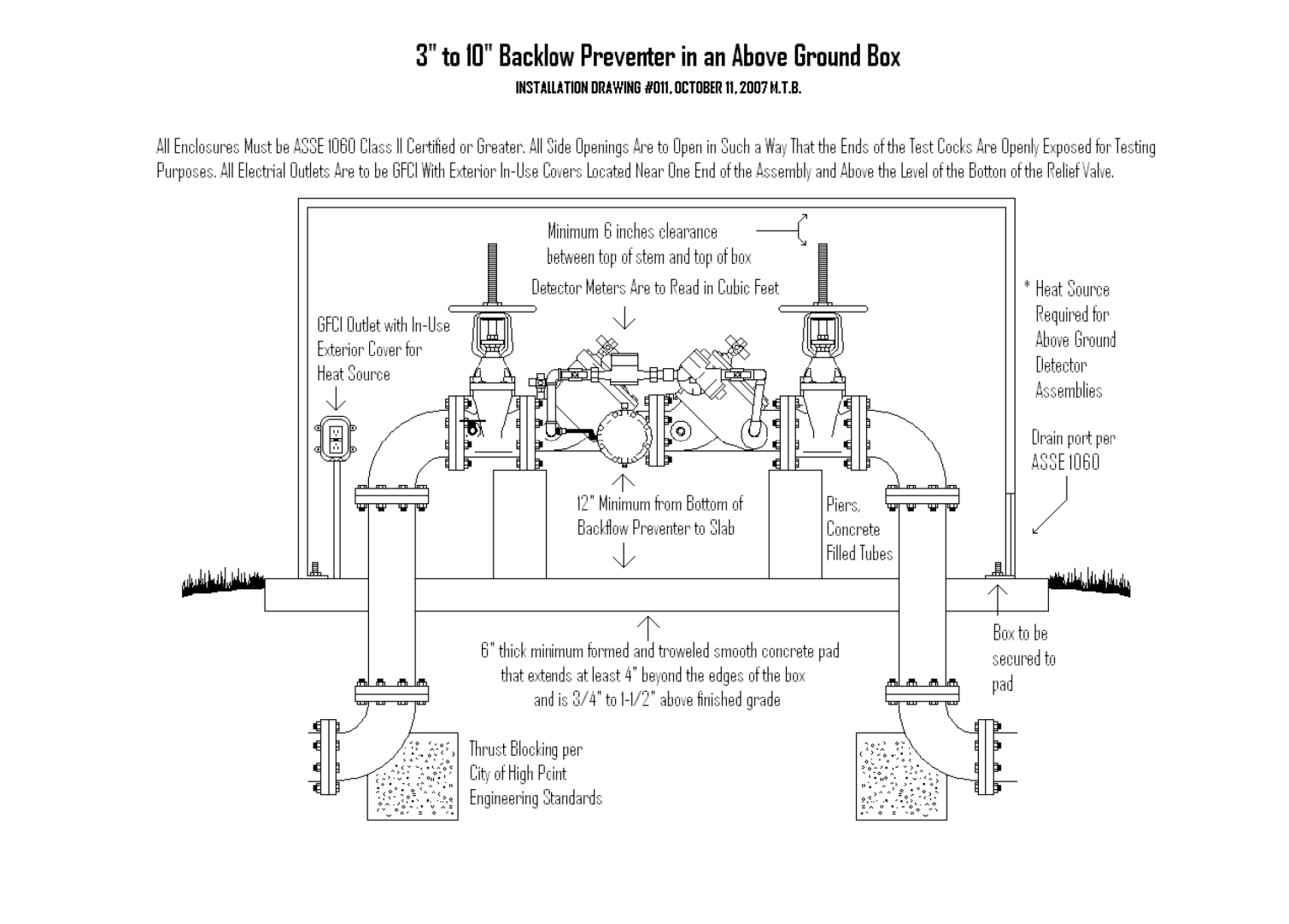
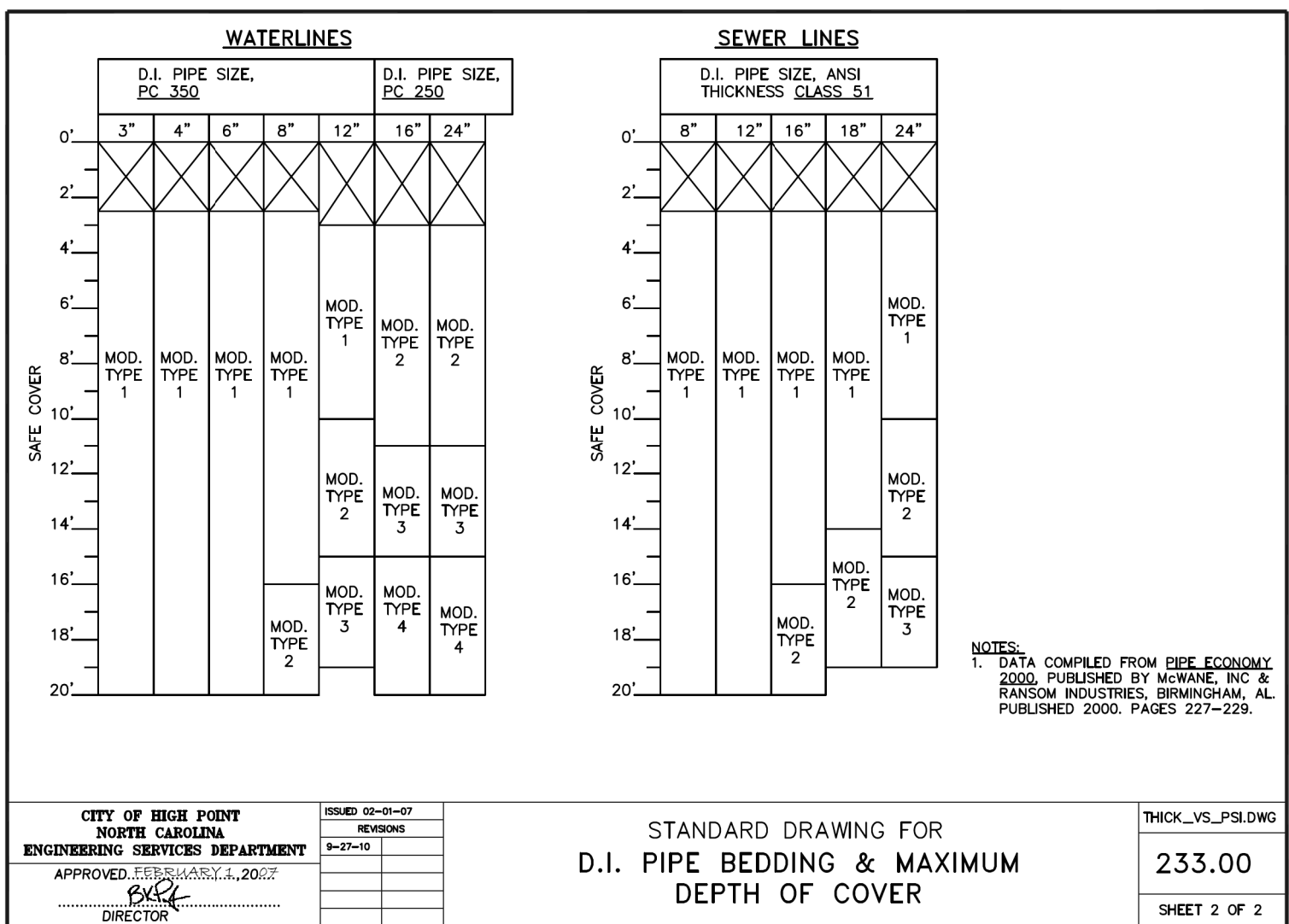
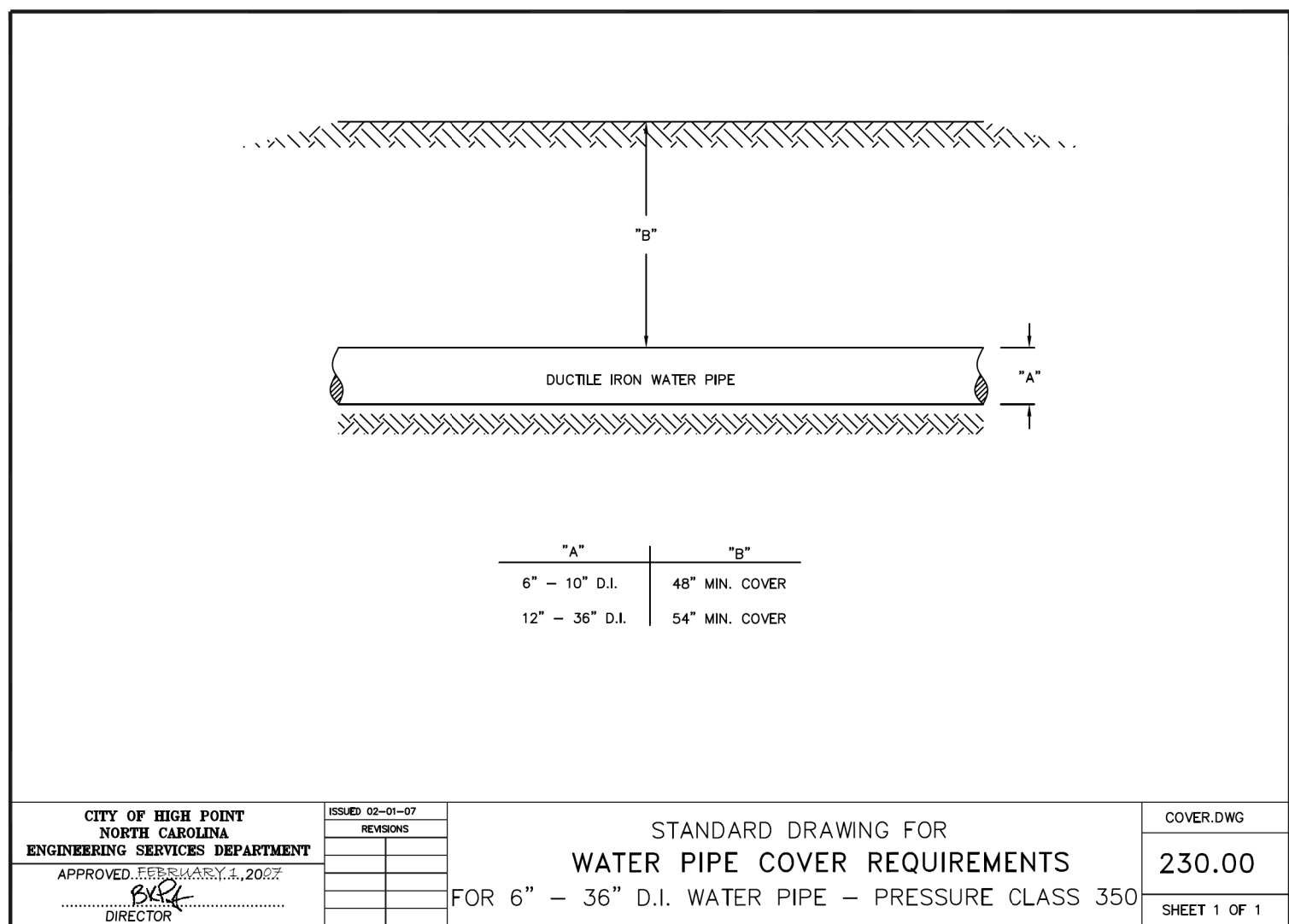
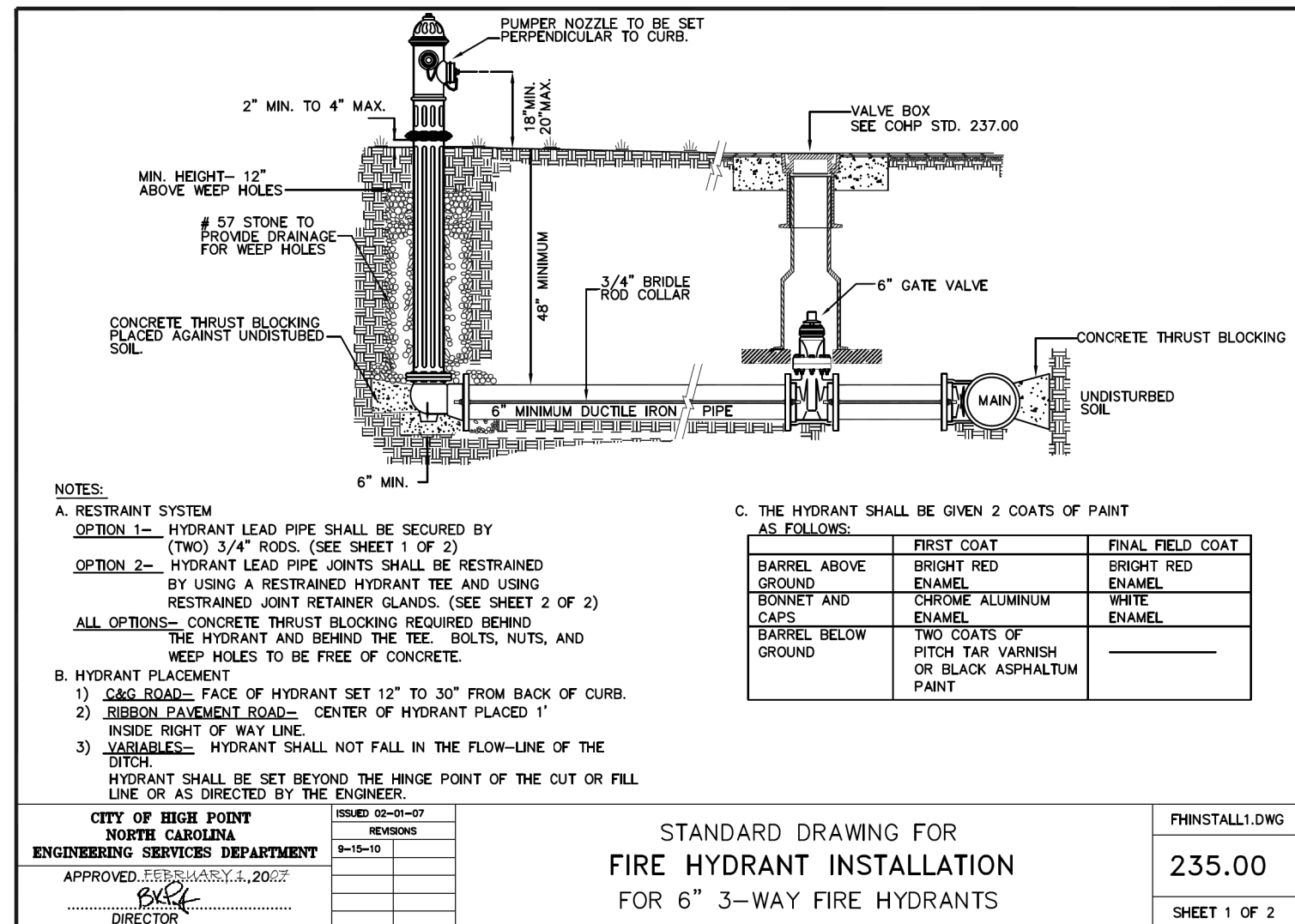
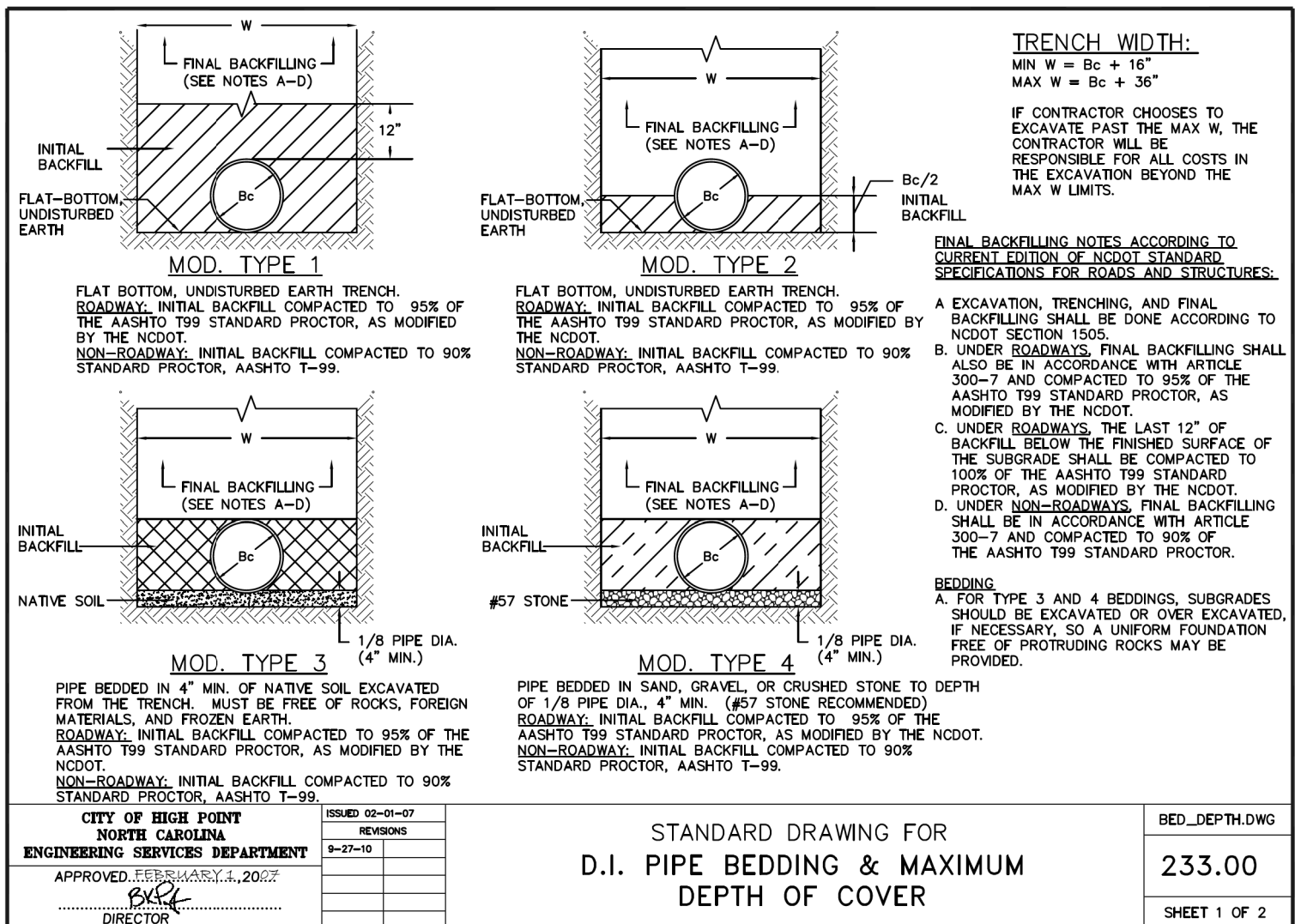
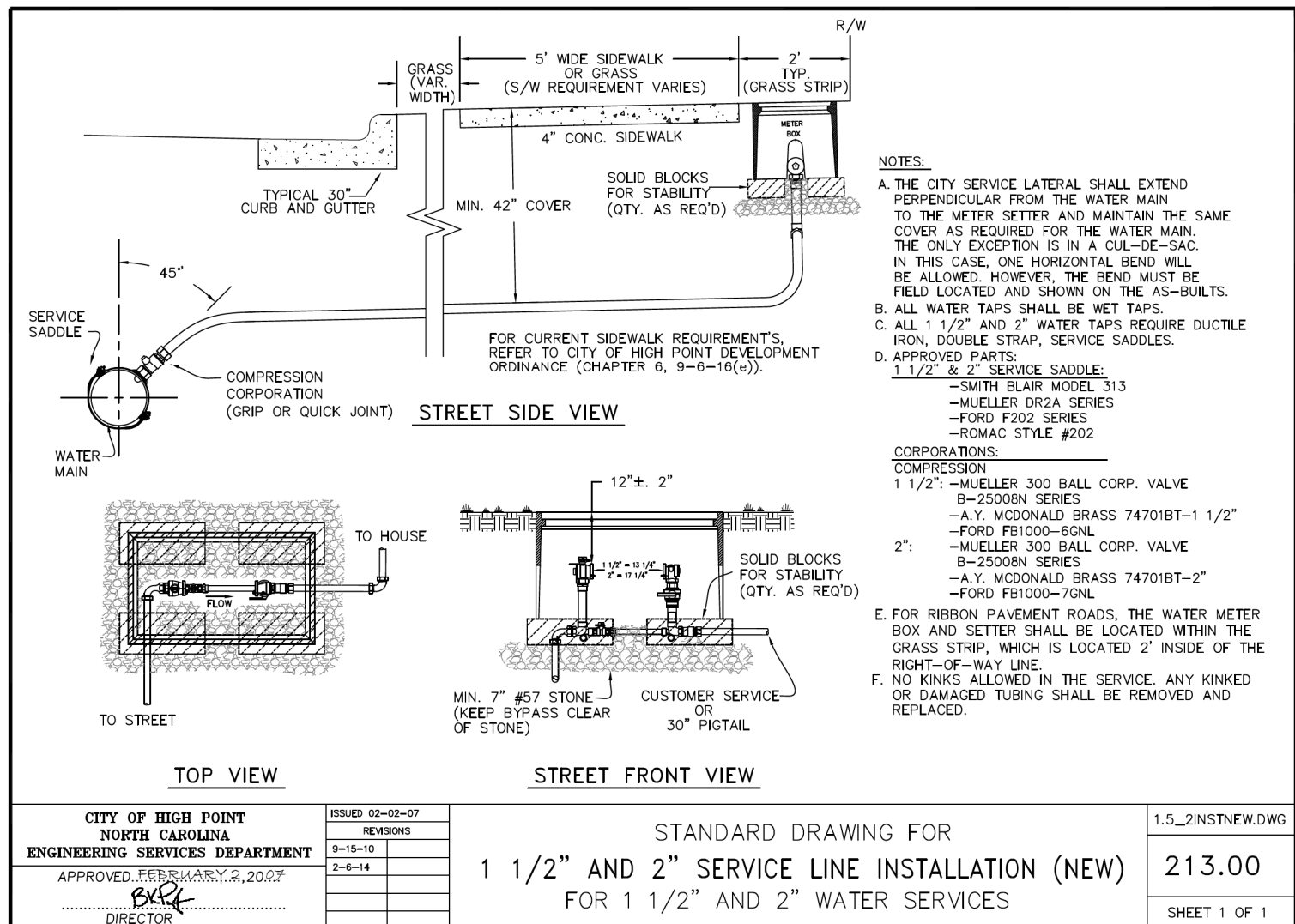
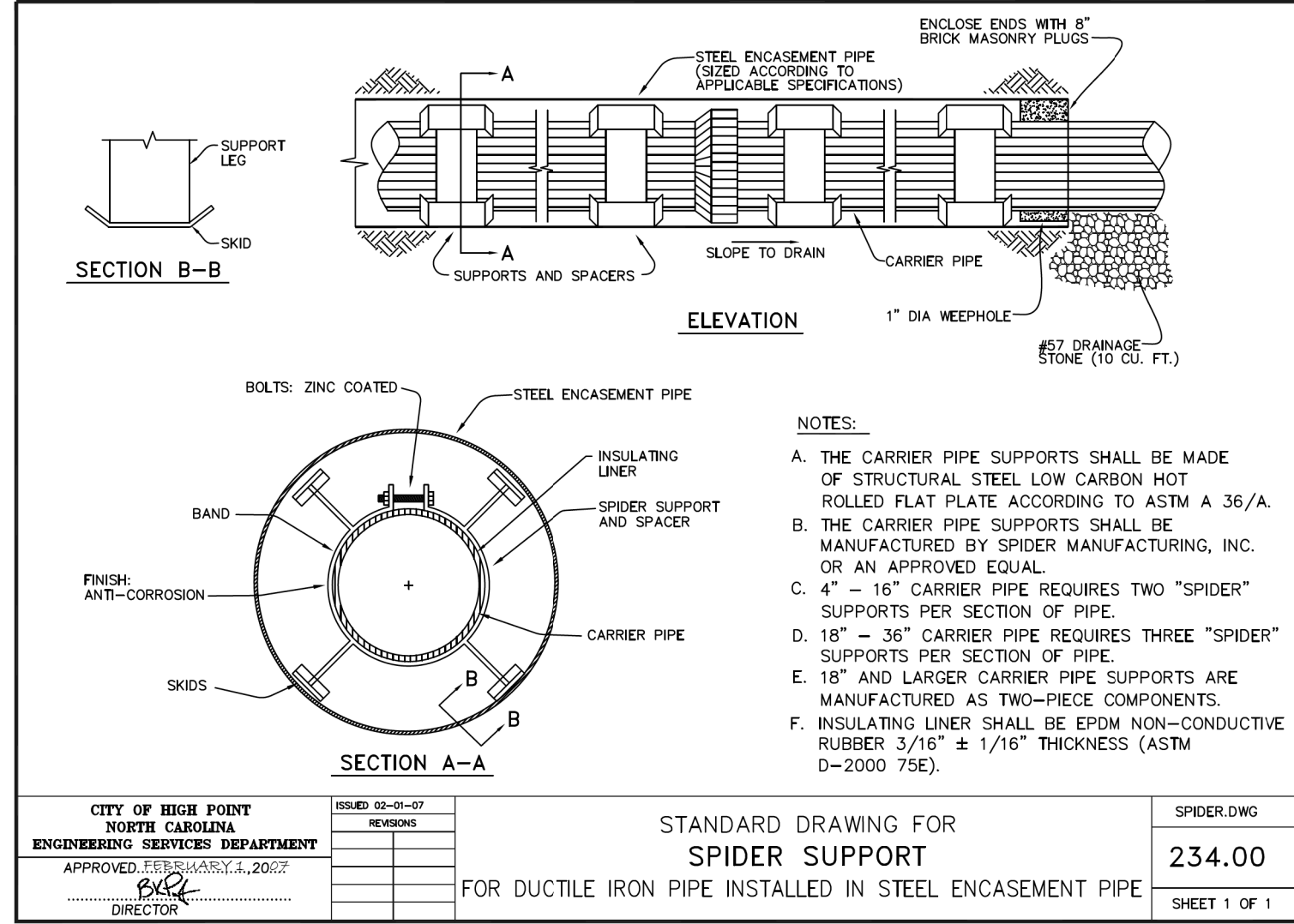
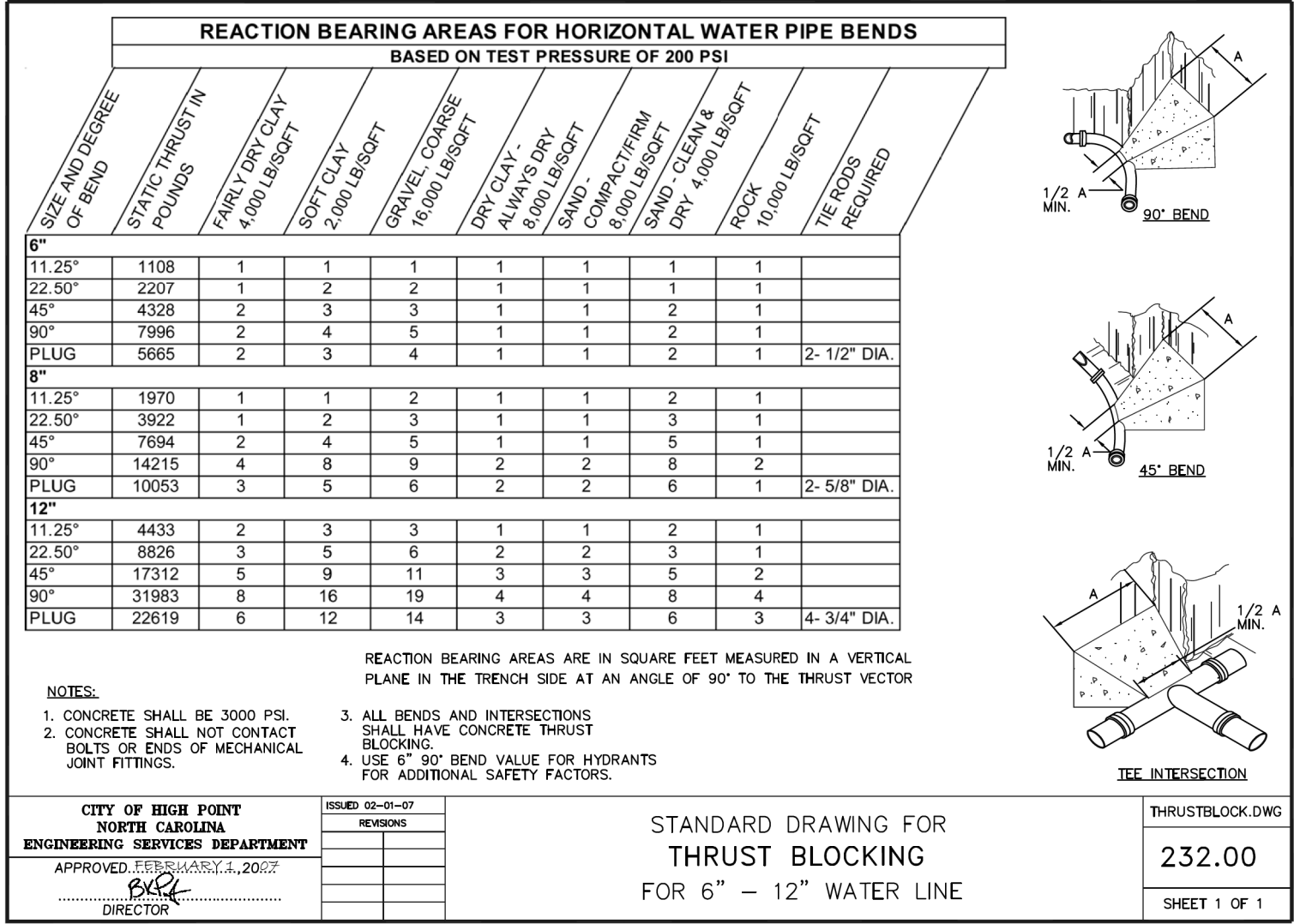
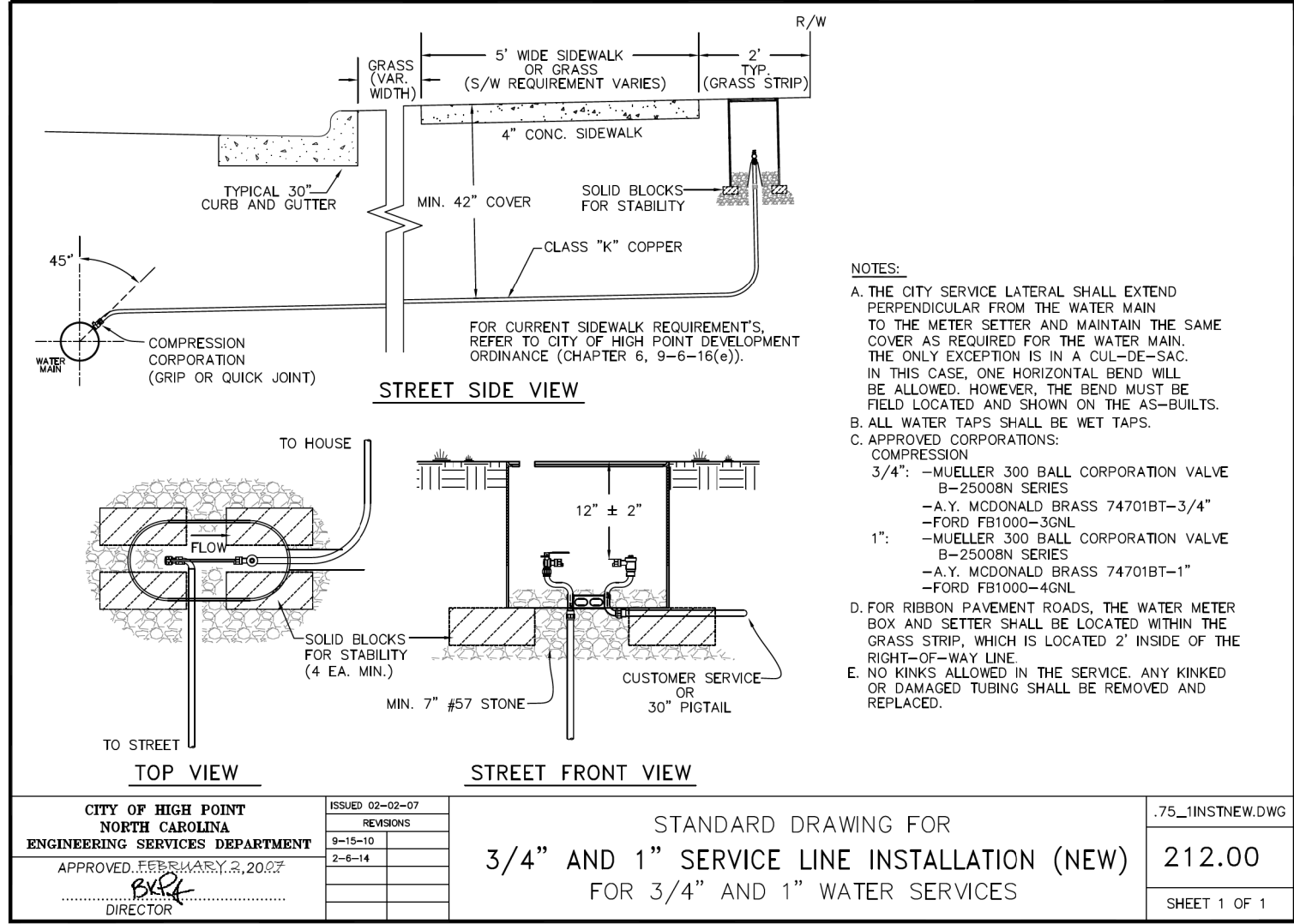
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

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

UTILITY CONSTRUCTION
PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT TYPICAL DETAILS



PROJECT REFERENCE NO. U-4758
SHEET NO. UC-3D

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

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

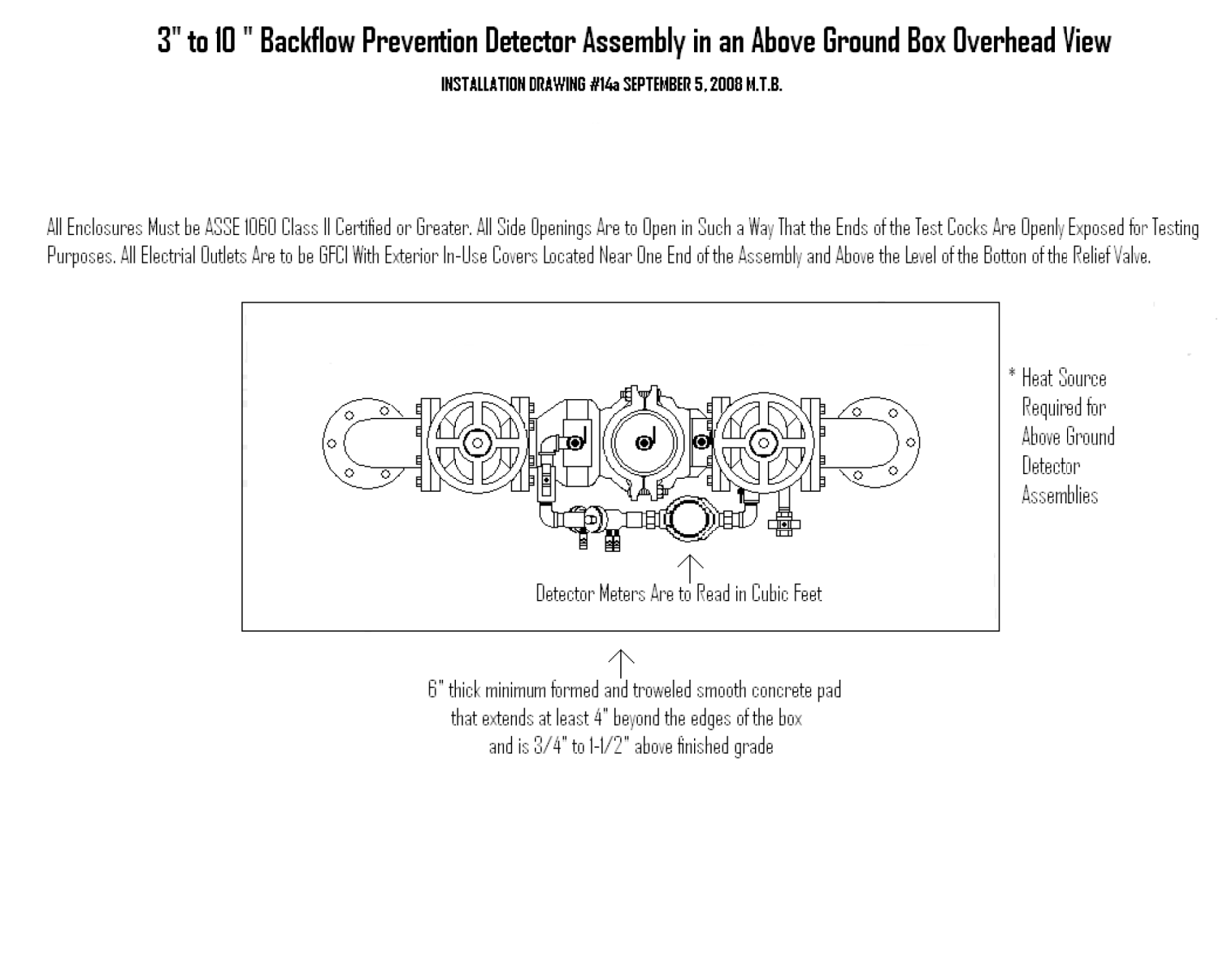
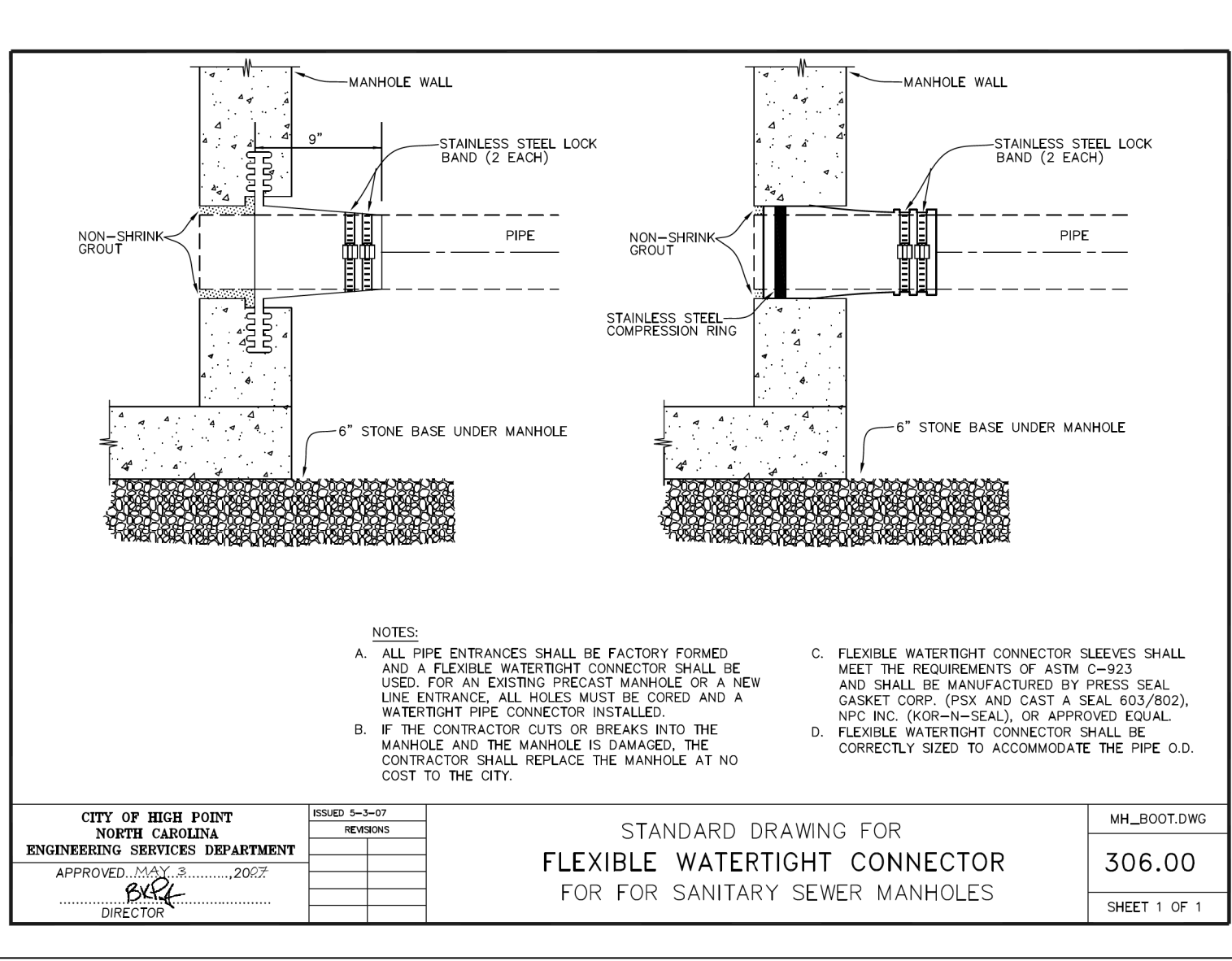
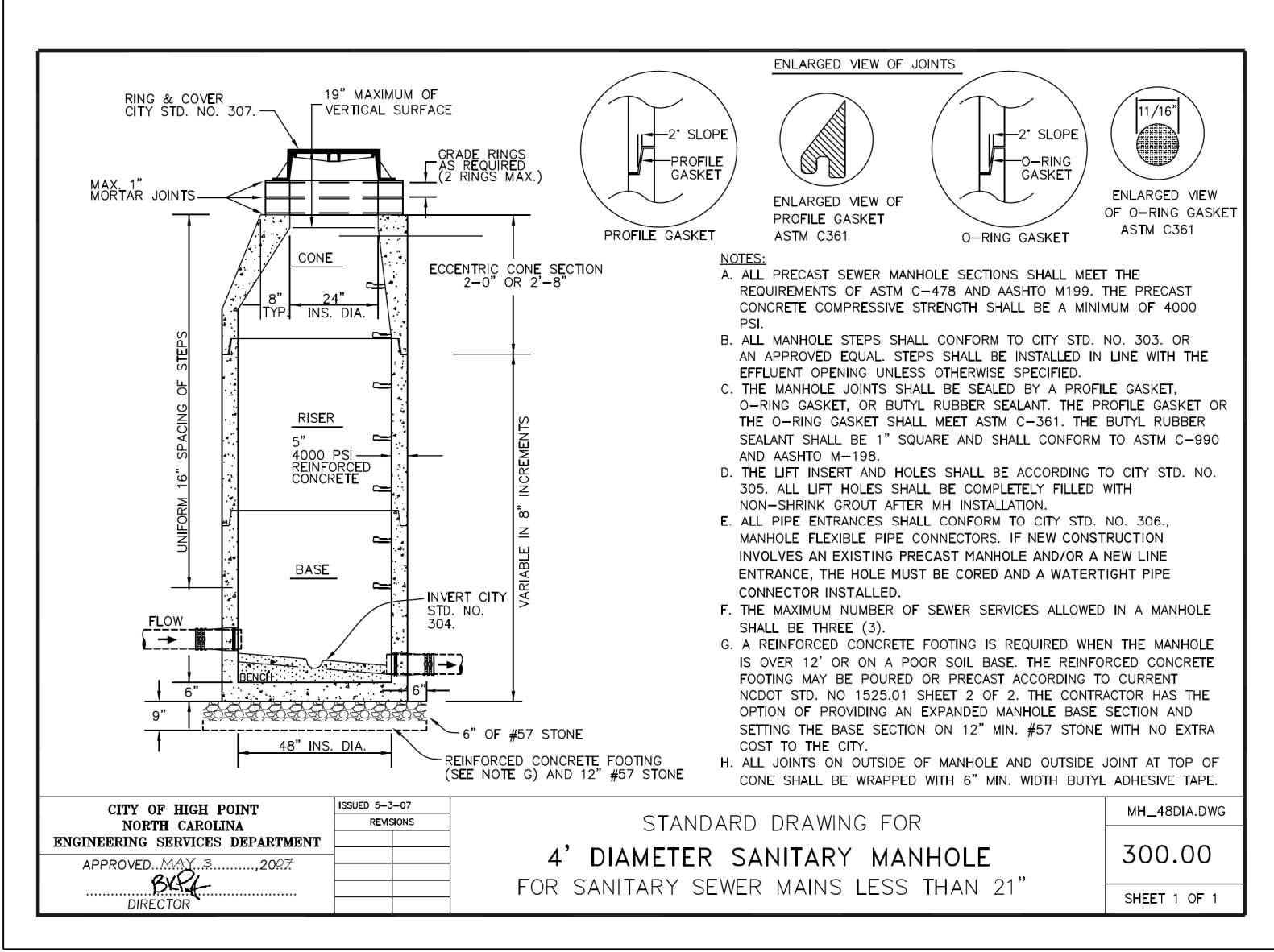
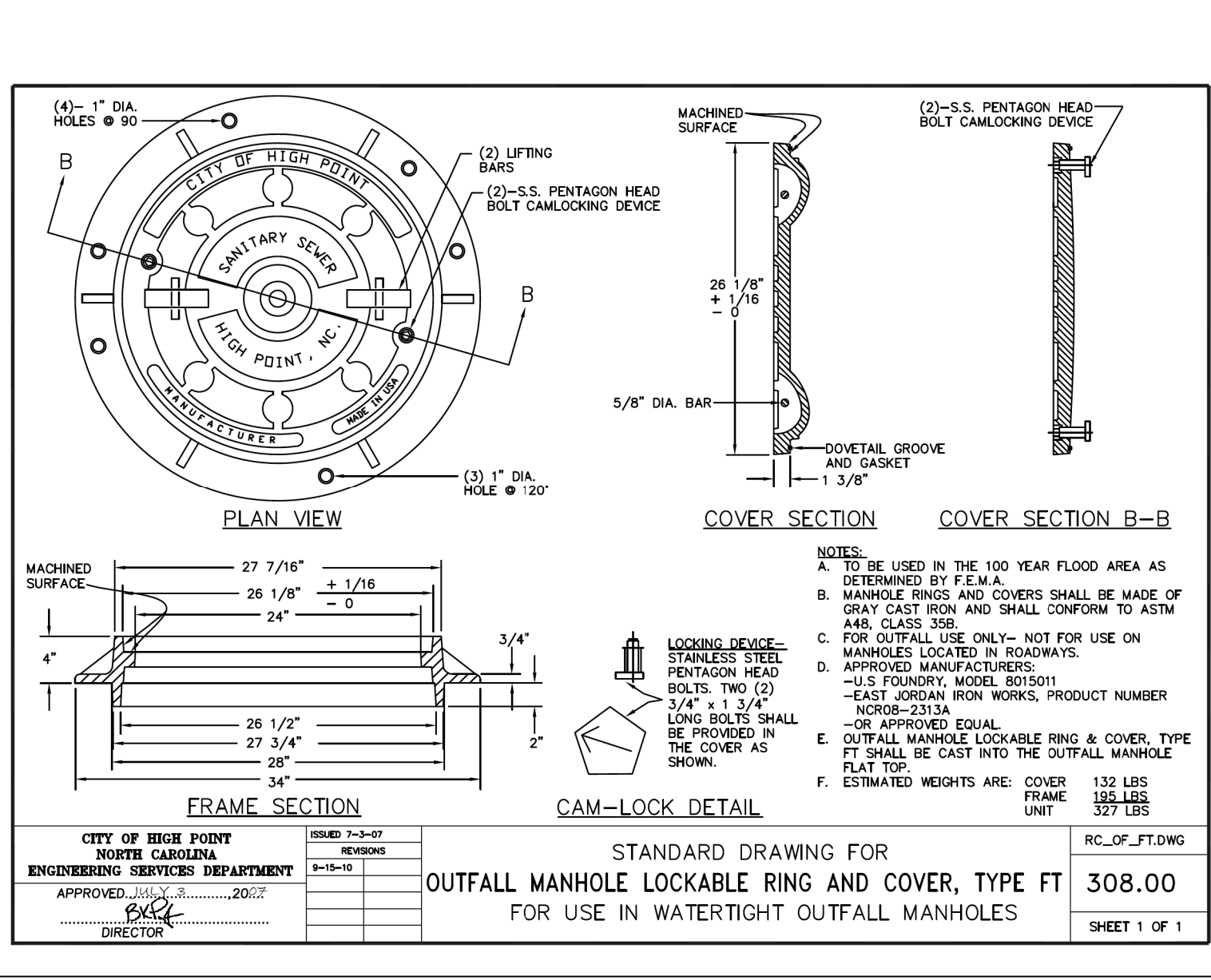
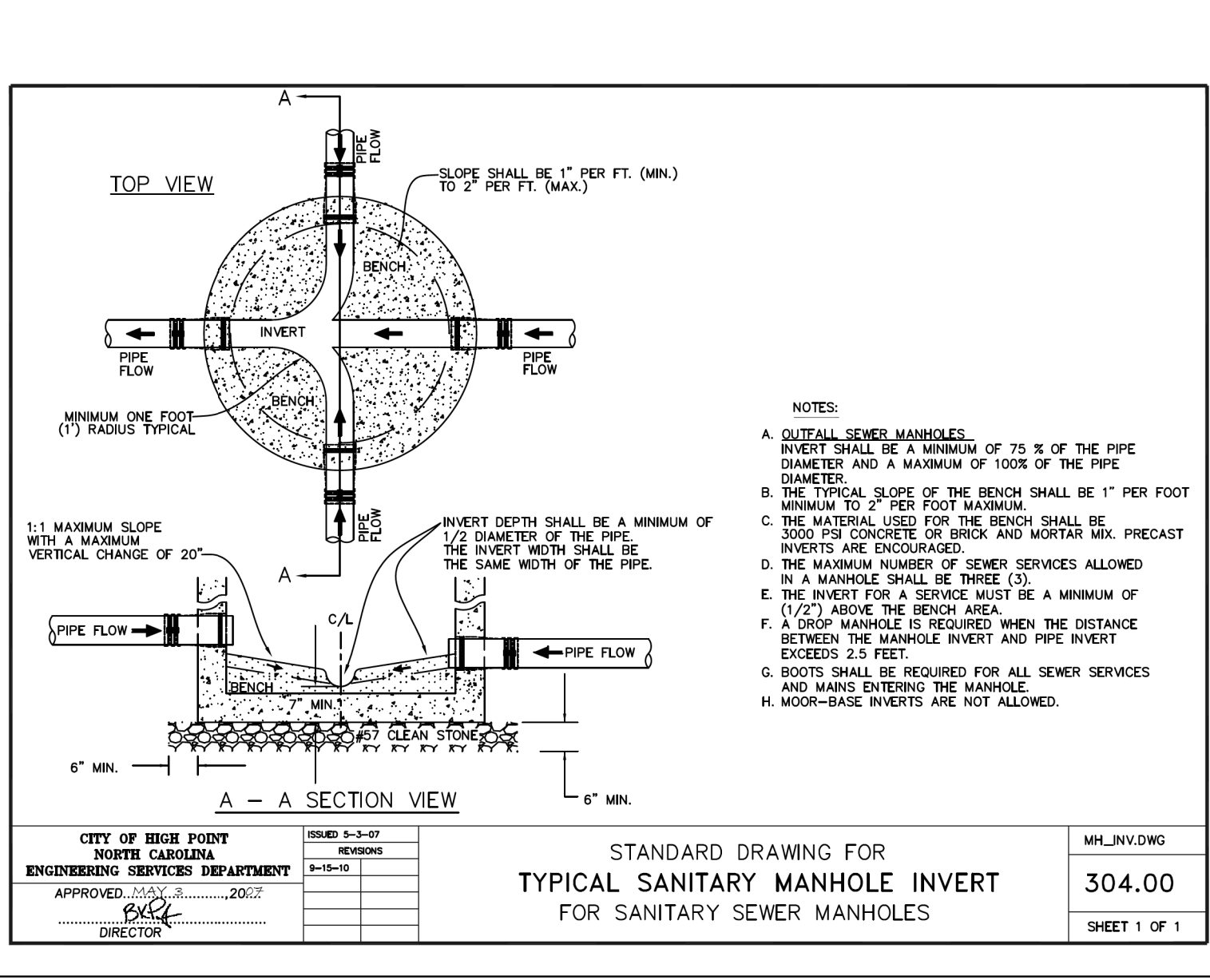
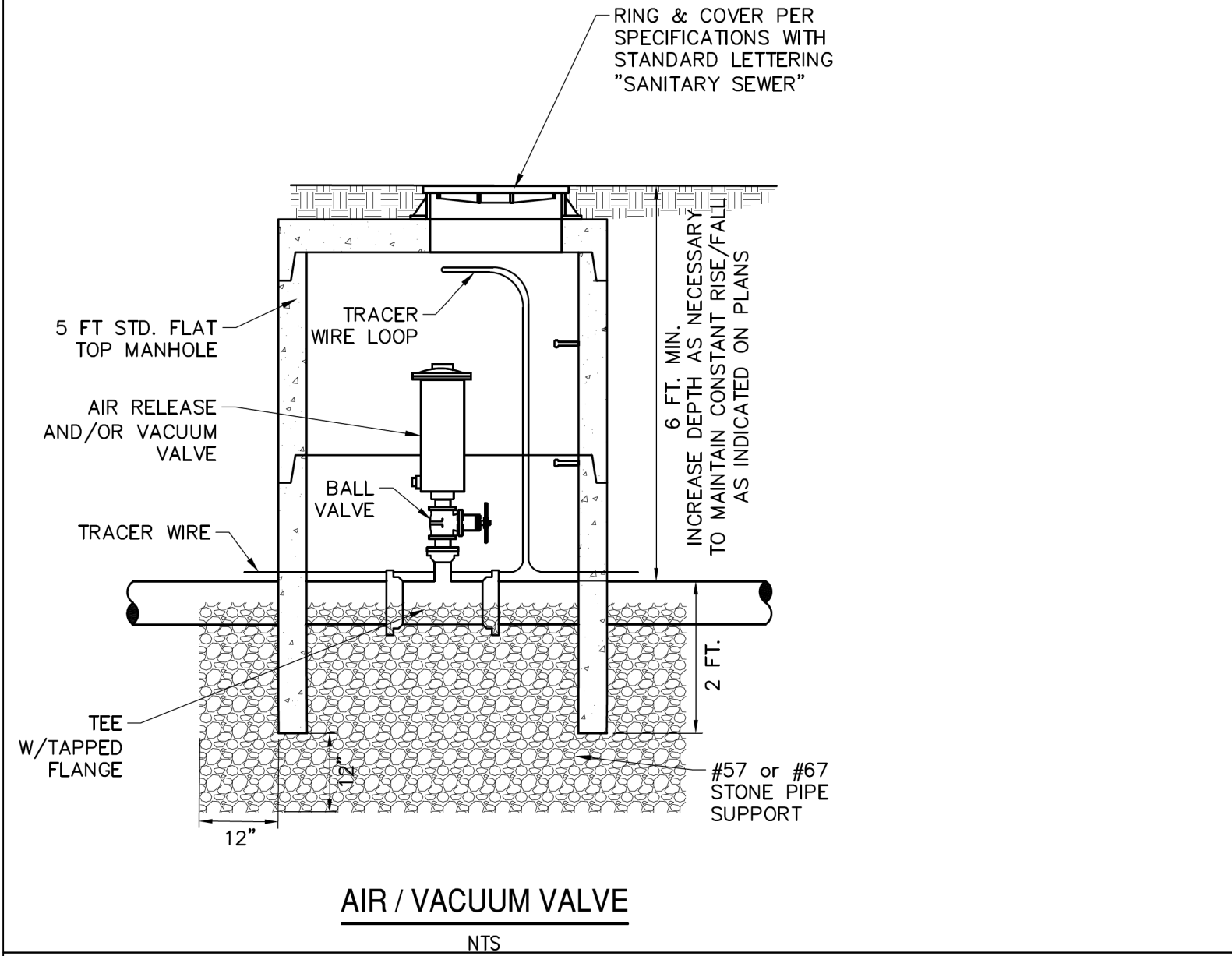
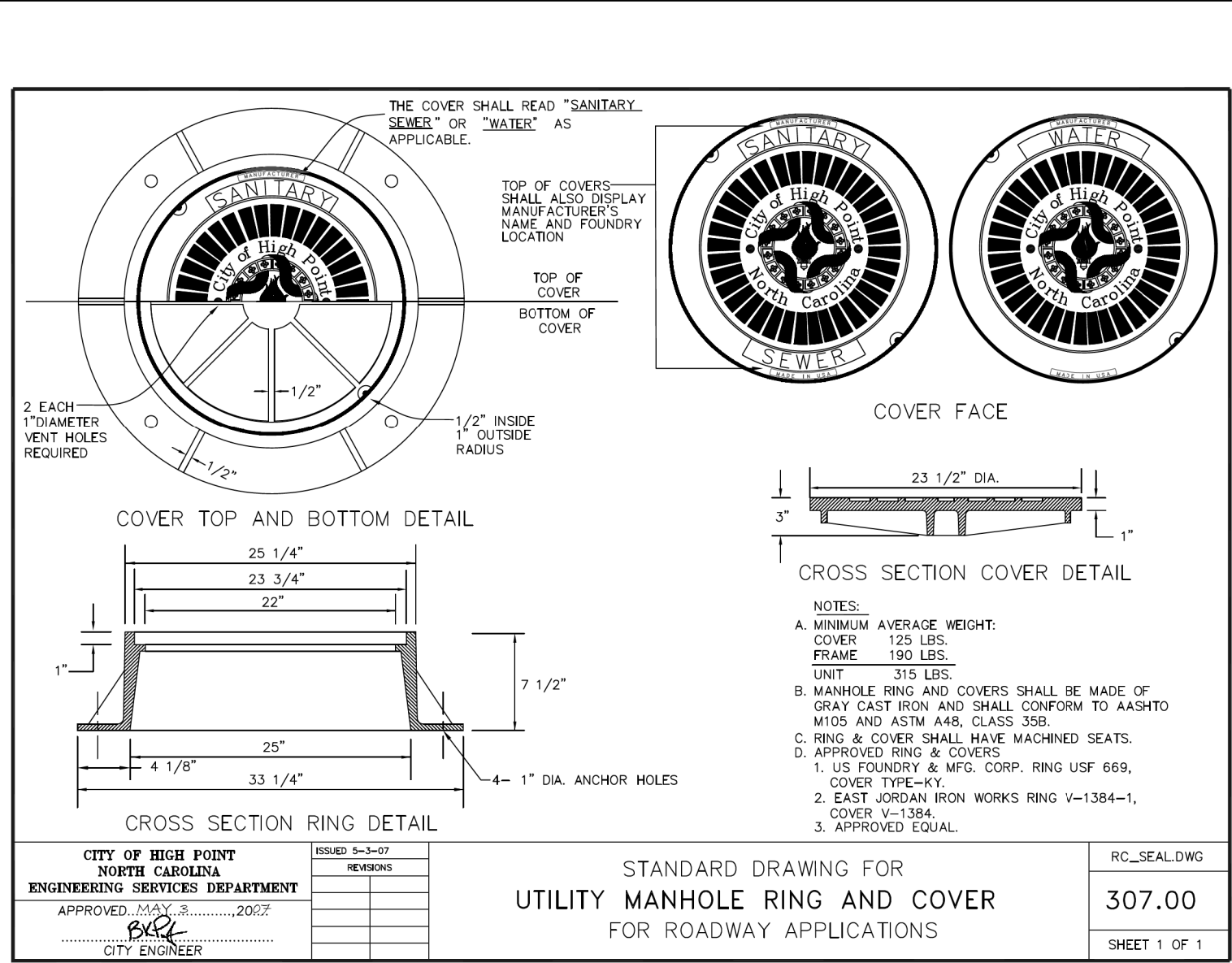
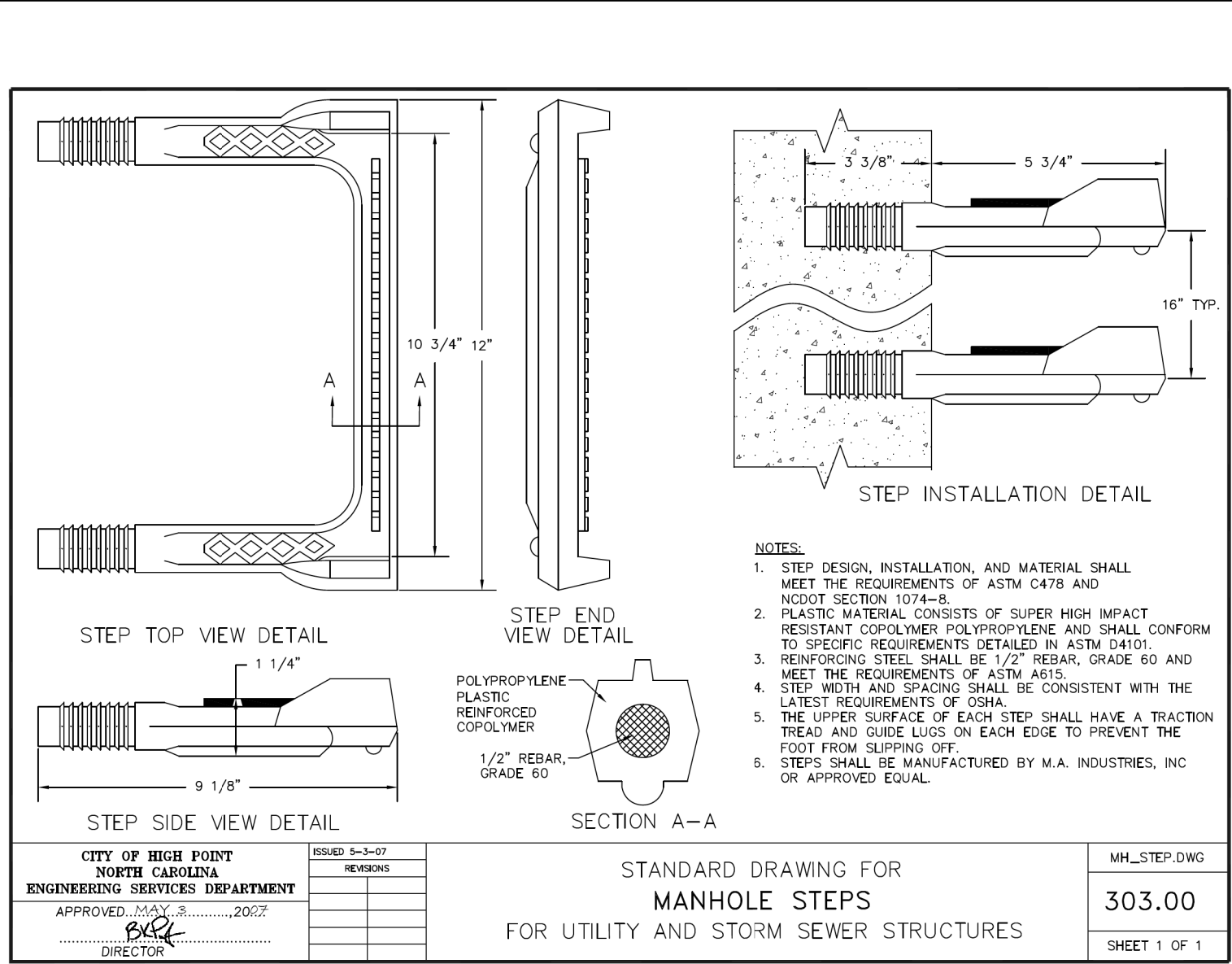
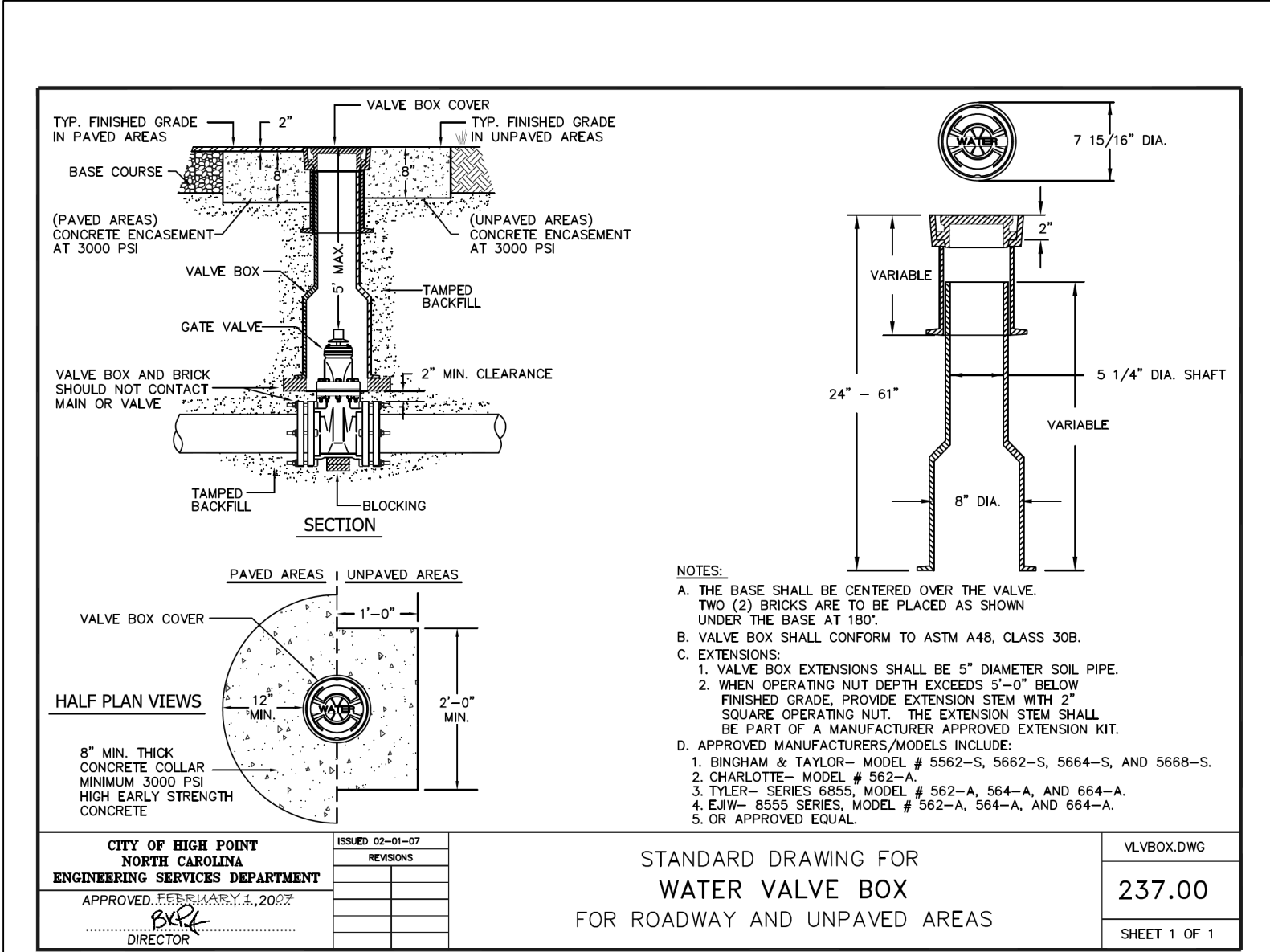
UTILITY CONSTRUCTION PLANS ONLY

SEAL
Signed FEB 8 2025
JAMES S. MOORE
REGISTERED PROFESSIONAL ENGINEER
6/9/2025

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT TYPICAL DETAILS



PROJECT REFERENCE NO. **U-5896** SHEET NO. **UC-3E**

DESIGNED BY: **DMP**

DRAWN BY: **DMP**

CHECKED BY: **DMP**

APPROVED BY:

REVISED:

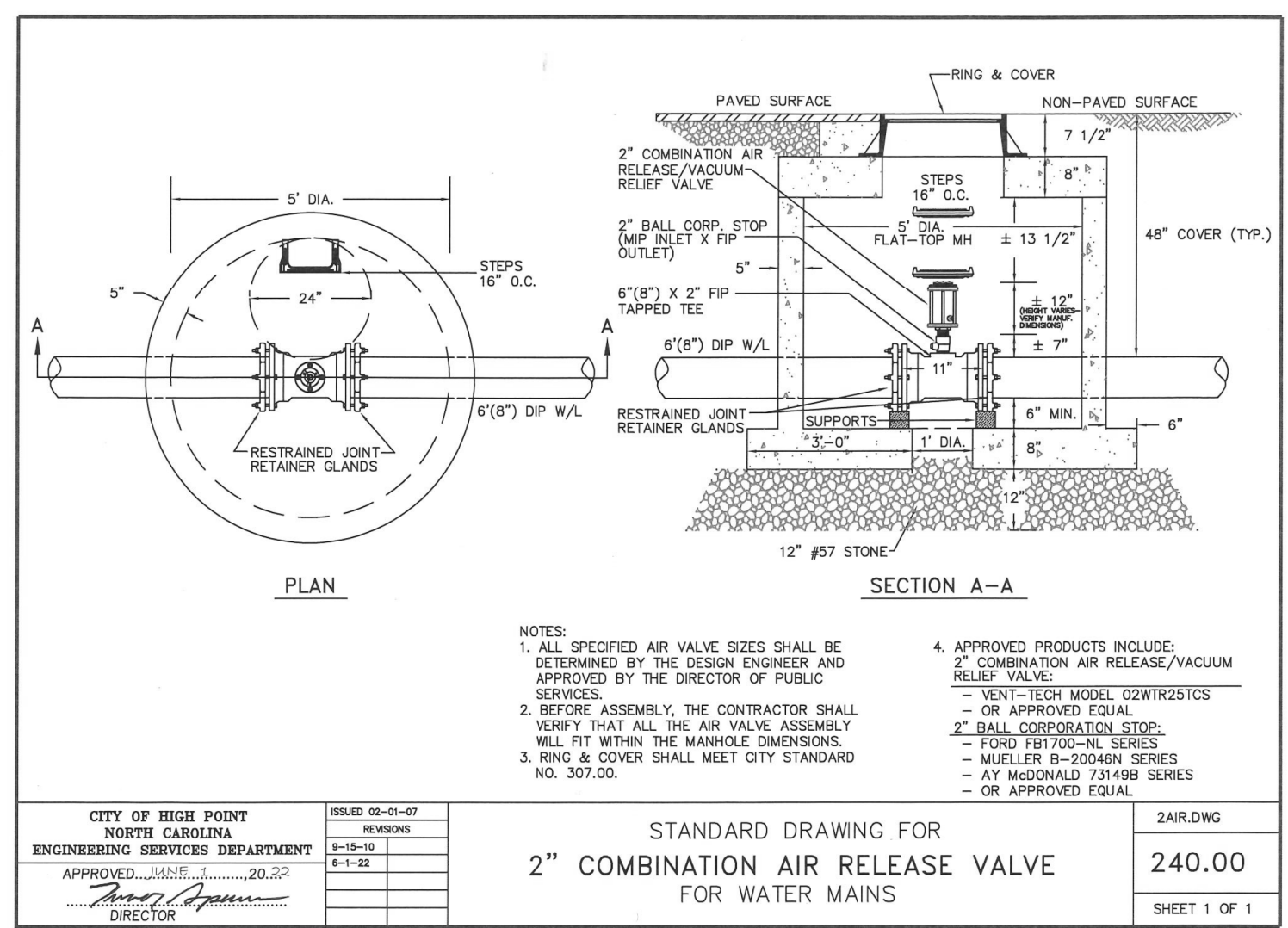
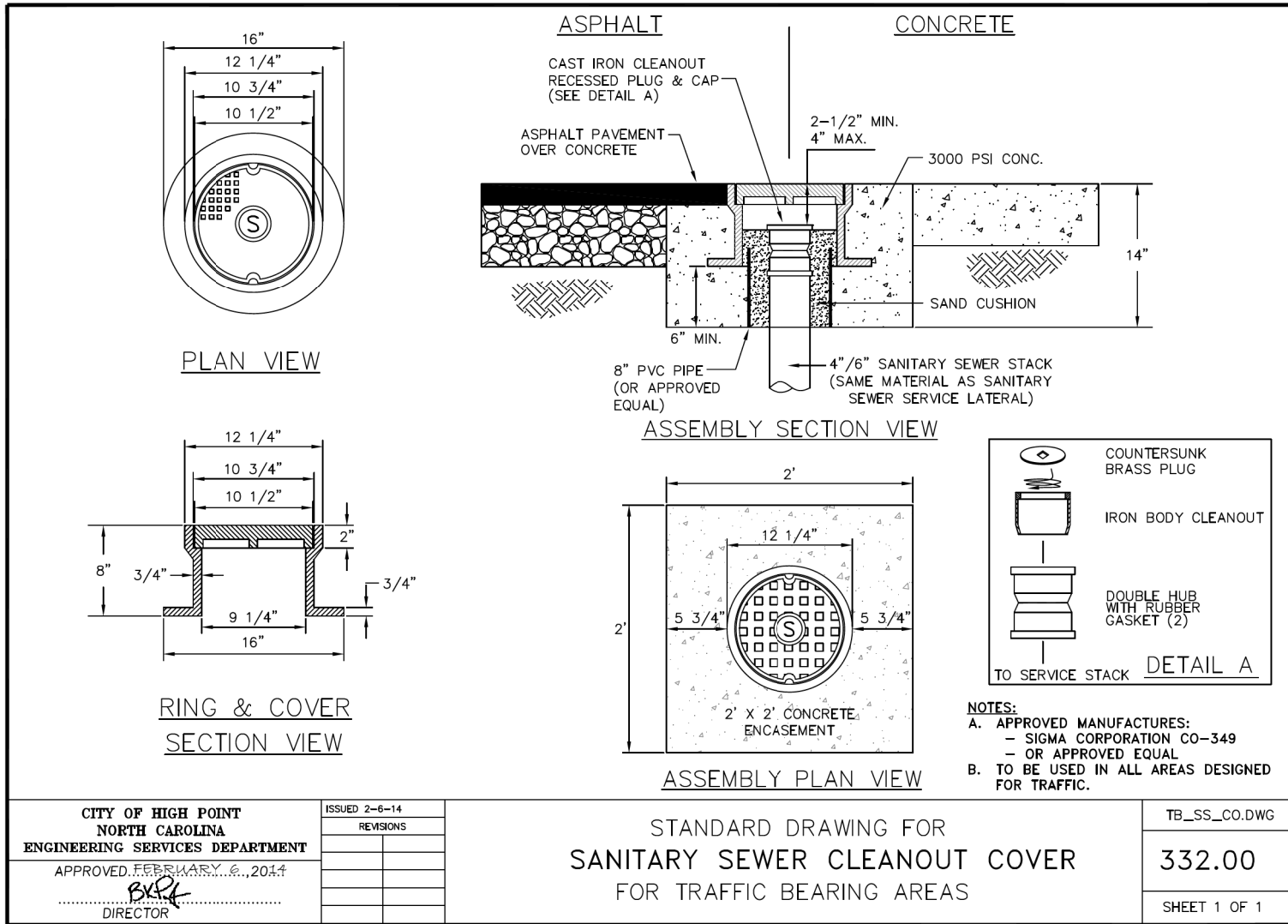
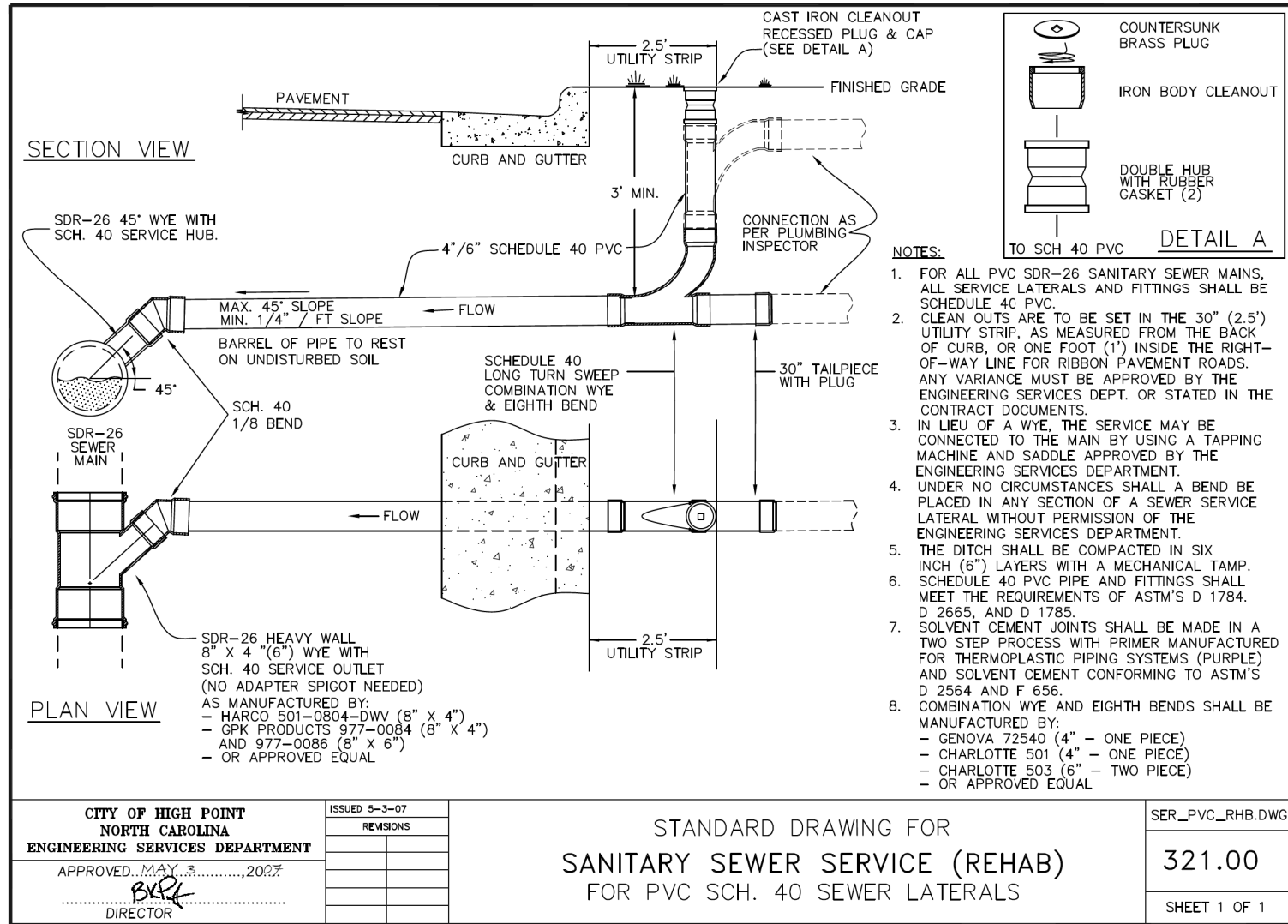
NORTH CAROLINA
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UTILITIES ENGINEERING SEC.
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FAX: (919) 250-4151

UTILITY CONSTRUCTION
PLANS ONLY

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UNLESS ALL SIGNATURES COMPLETED**

PROJECT TYPICAL DETAILS



PROJECT REFERENCE NO. **U-4758** SHEET NO. **UC-3F**

DESIGNED BY: **DMP**

DRAWN BY: **DMP**

CHECKED BY: **DMP**

APPROVED BY:

REVISED:

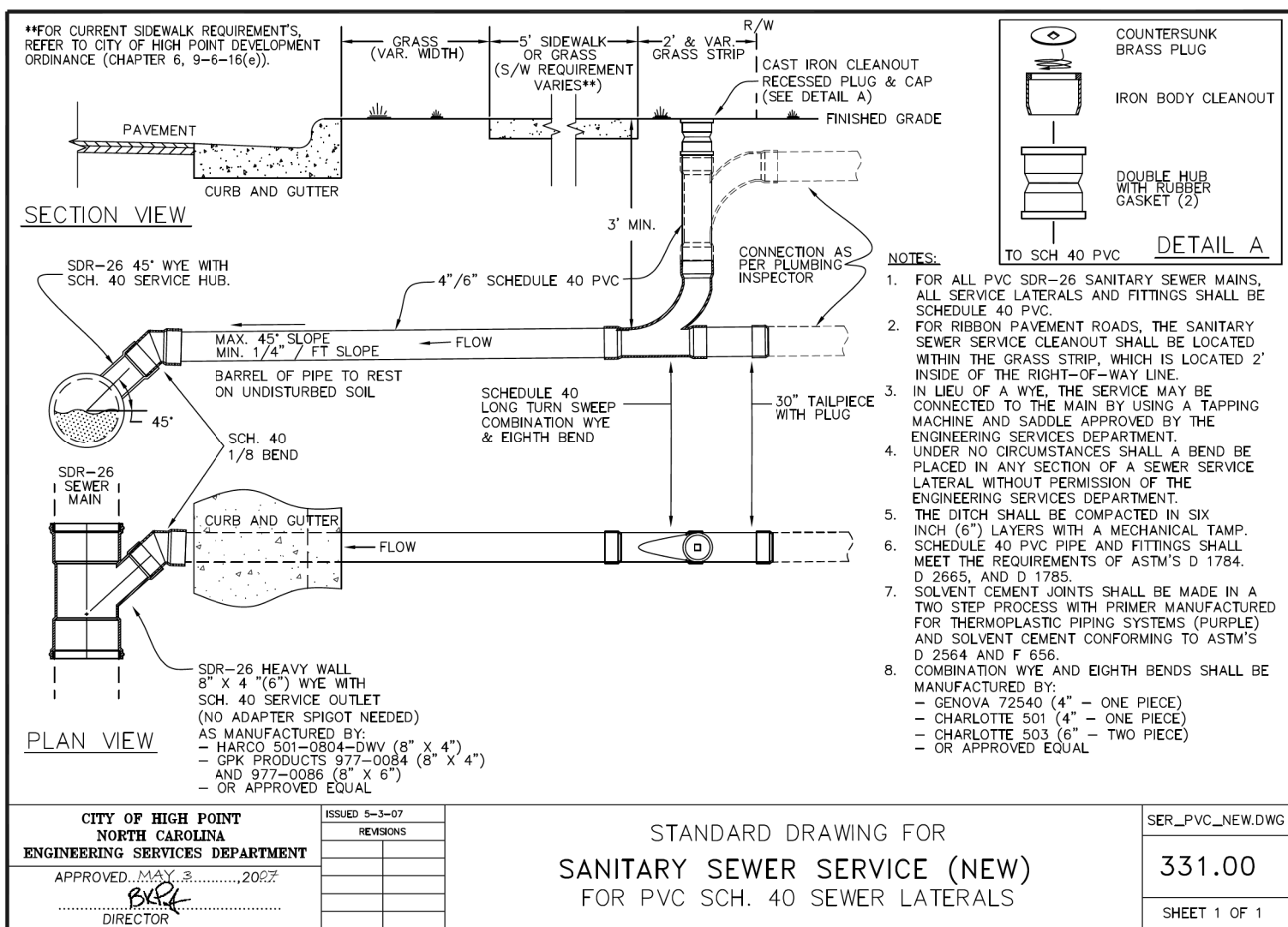
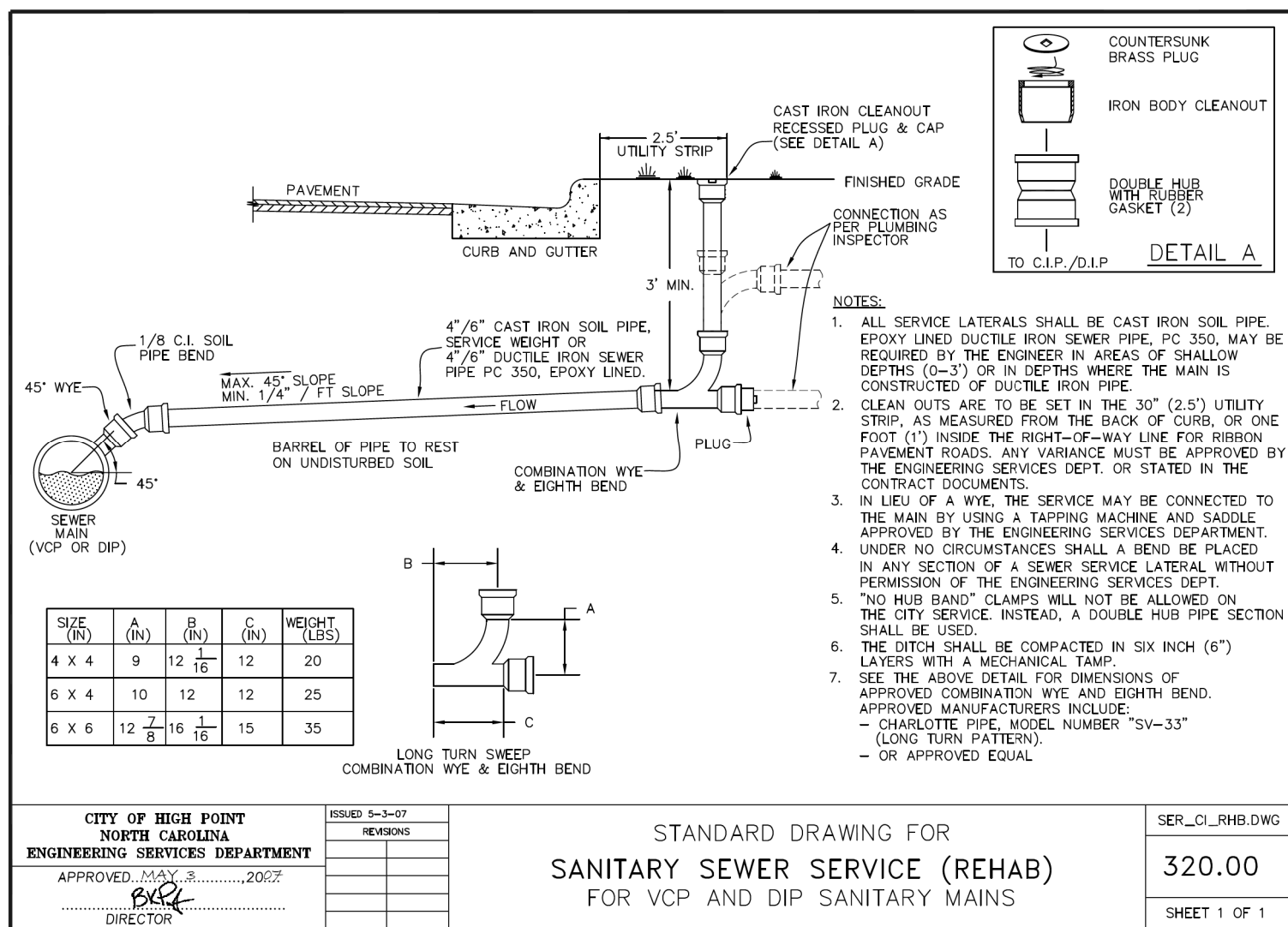
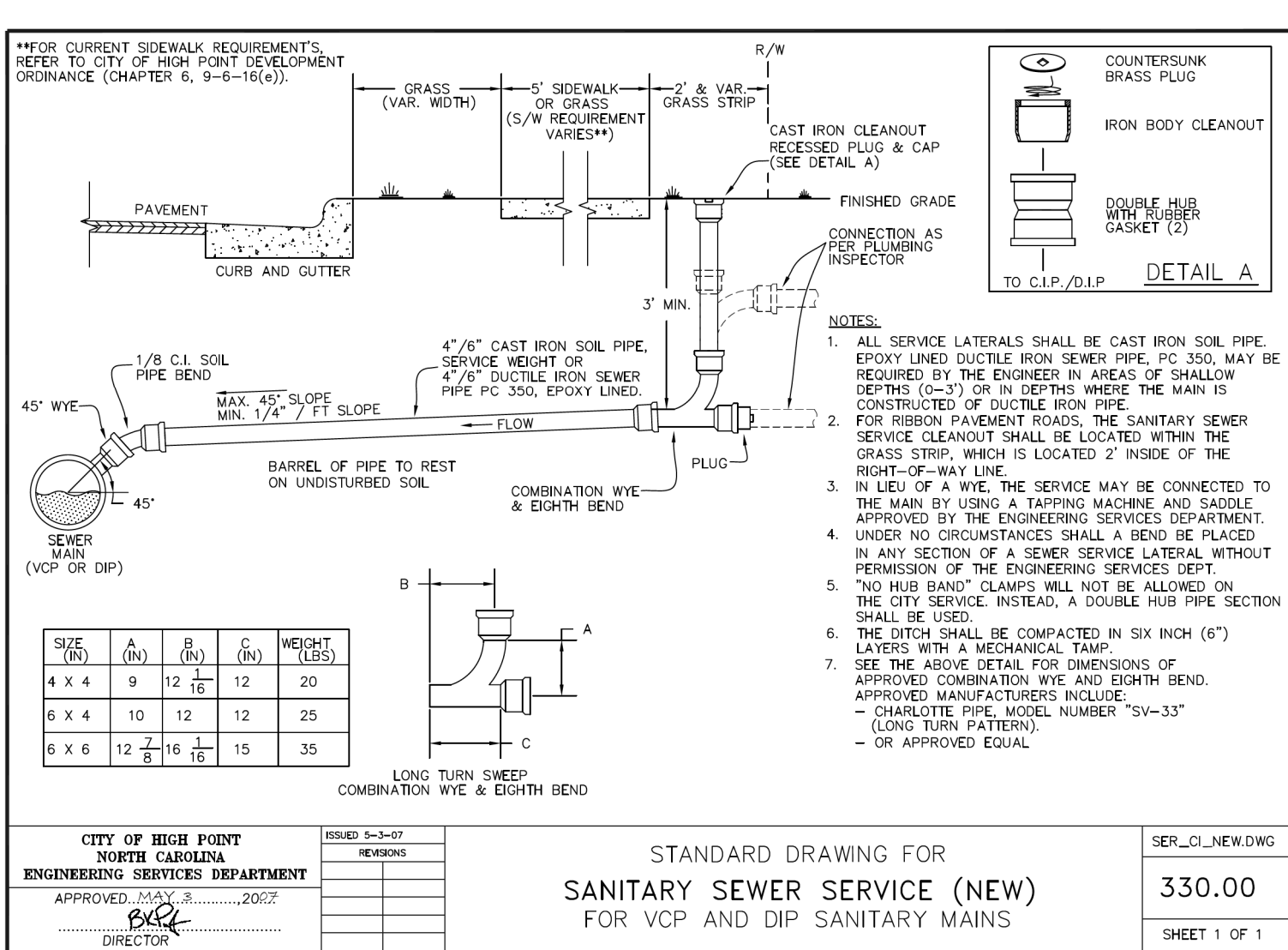
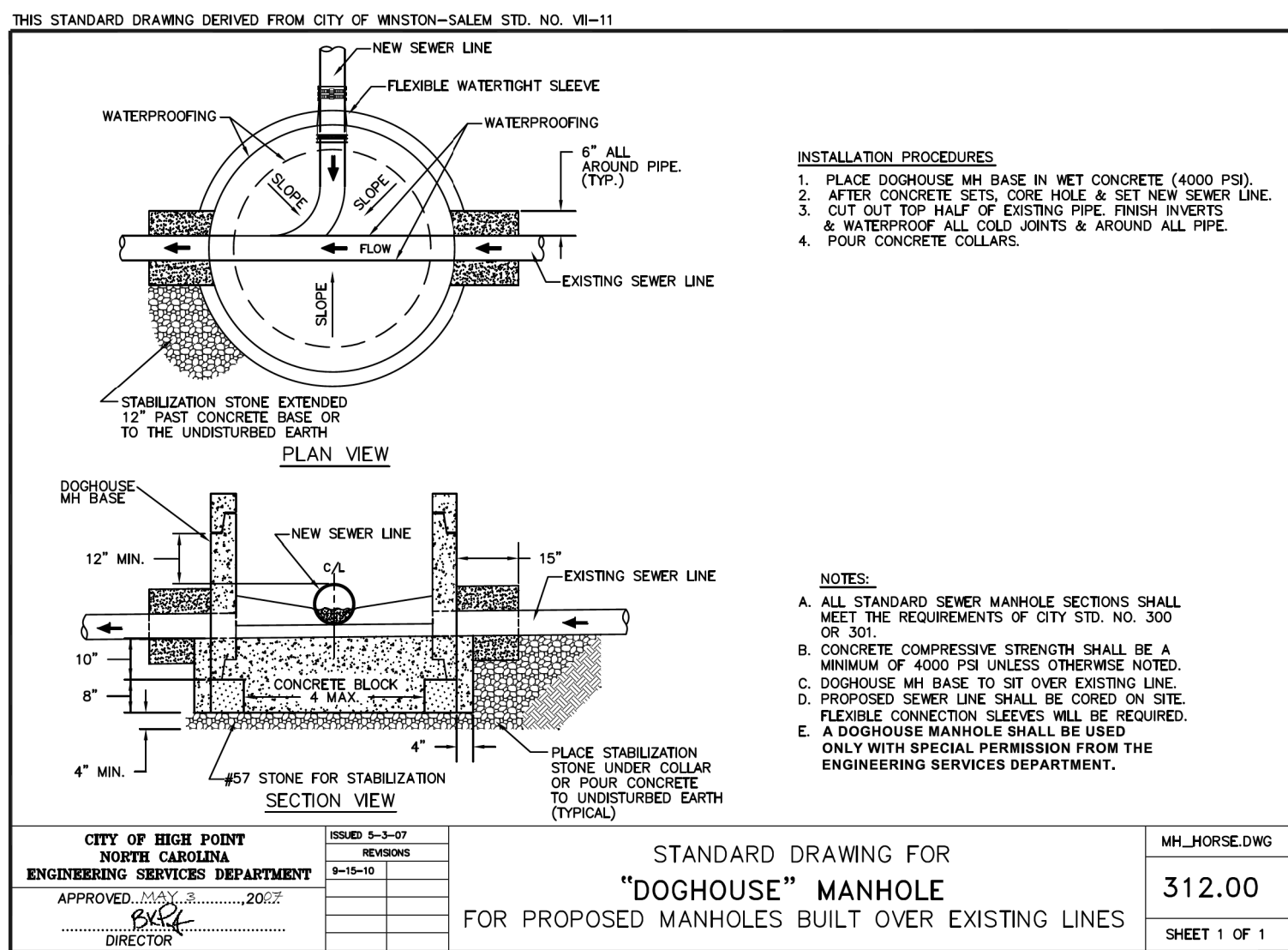
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

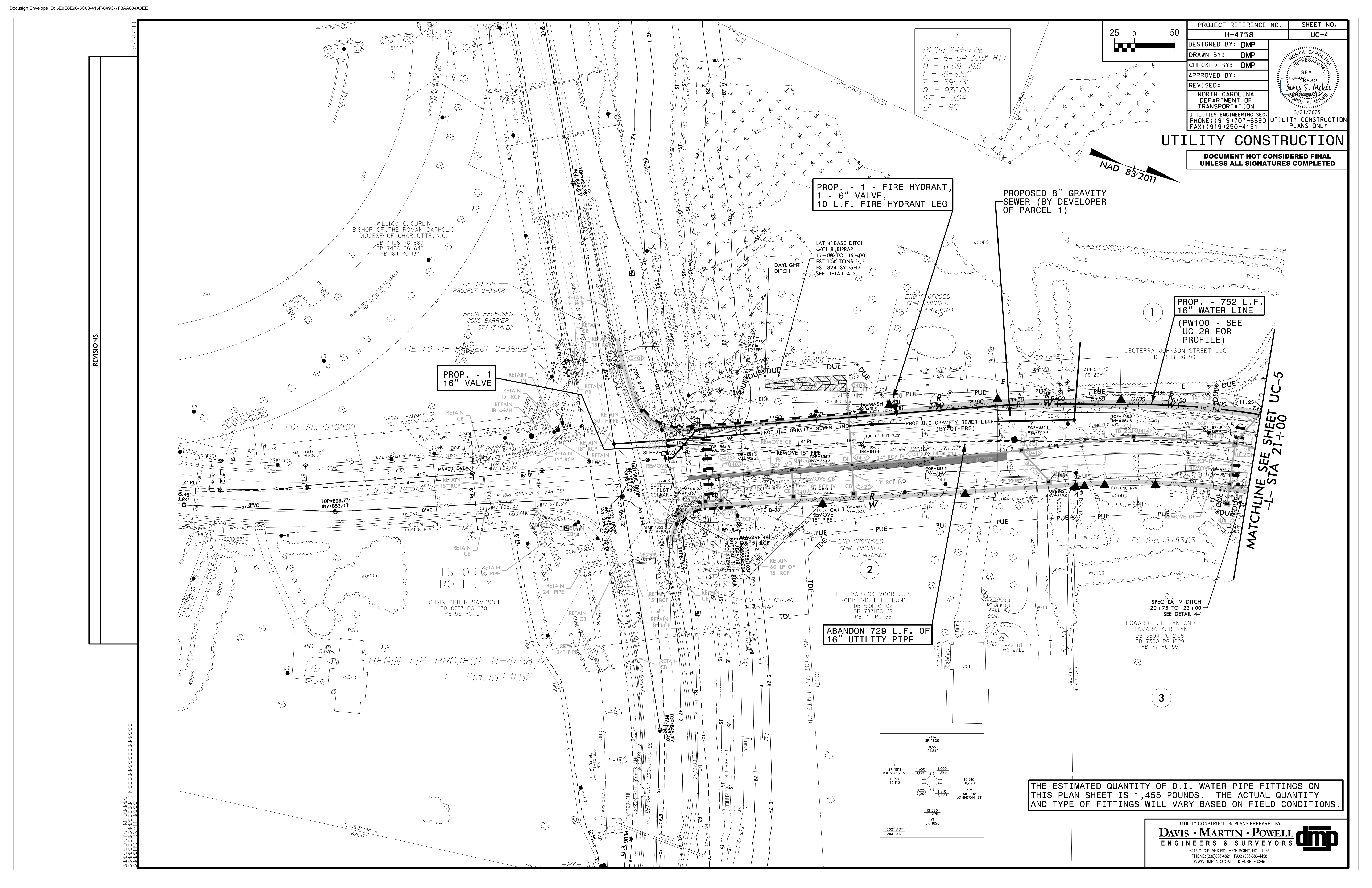
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION
PLANS ONLY

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UNLESS ALL SIGNATURES COMPLETED

SEAL
Signed: 6832
James S. McKee
Professional Engineer
No. 10000
3/21/2025





PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-4
DESIGNED BY:	DMP	PROFESSIONAL SEAL James S. Moore NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 3/21/2025 UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 1,455 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

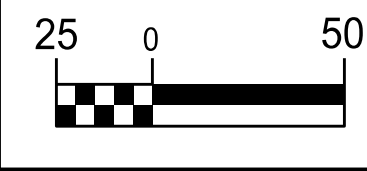
UTILITY CONSTRUCTION PLANS PREPARED BY:
DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS
6415 OLD PLANK RD, HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458
WWW.DMP-INC.COM LICENSE: F-0245

5/14/2025

-Y33-
PI Sta 10+85.22
 $\Delta = 9^{\circ} 44' 29.7''$ (RT)
D = 5' 43" 46.5"
L = 170.02'
T = 85.22'
R = 1,000.00'
SE = NC
LR = N/A

-Y34-
PI Sta 12+15.97
 $\Delta = 4^{\circ} 19' 52.3''$ (LT)
D = 7' 09" 43.1"
L = 60.48'
T = 30.25'
R = 800.00'
SE = NC
LR = N/A

-L-
PI Sta 24+77.08
 $\Delta = 64^{\circ} 54' 30.9''$ (RT)
D = 6' 09" 39.0"
L = 1053.57'
T = 591.43'
R = 930.00'
SE = 0.04
LR = 192'



PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-5
DESIGNED BY: DMP		
DRAWN BY: DMP		
CHECKED BY: DMP		
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MATCHLINE SEE SHEET UC-6
-L- STA 35+00

PROP. -
1 - RELOCATE
FIRE HYDRANT,
1 - 6" VALVE,
12 L.F. FIRE
HYDRANT LEG
(EX. HYDRANT
LOCATED LEFT
OF STA 22+25
-L-)

PROP. - 379 L.F.
16" WATER LINE
(PW100 - SEE
UC-28 FOR
PROFILE)

ABANDON 365 L.F. OF
16" UTILITY PIPE

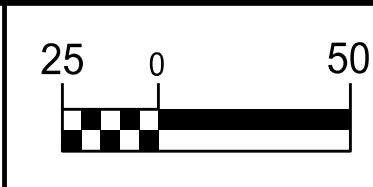
PROP. - 424 L.F.
16" WATER LINE
(PW200 - SEE UC-28
FOR PROFILE)

ABANDON 409 L.F. OF
16" UTILITY PIPE

MATCHLINE SEE SHEET UC-4
-L- STA 21+00

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 5,375 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REVISIONS



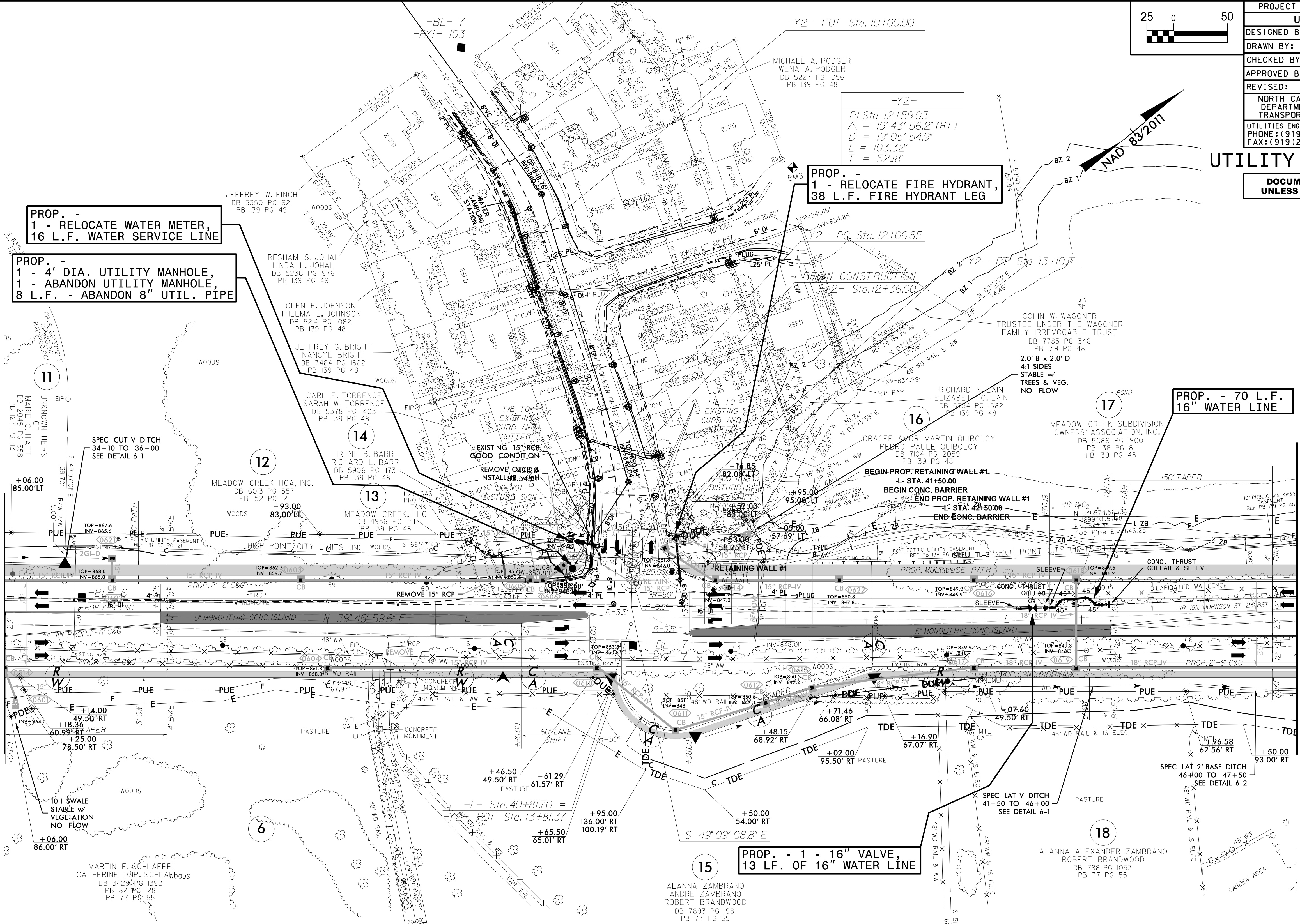
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-6
DESIGNED BY:	DMP	SEAL James S. Miller Professional Engineer No. 16832 North Carolina Department of Transportation 3/21/2025
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY

MATCHLINE SEE SHEET UC-5
-L- STA 35+00

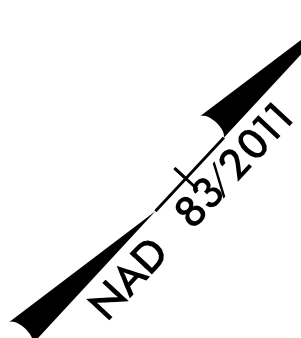
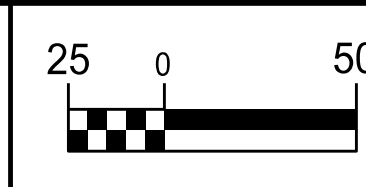
MATCHLINE SEE SHEET UC-7
-L- STA 47+00

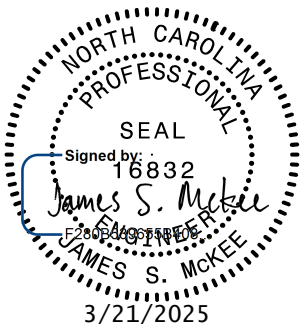


THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 2,065 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/2011

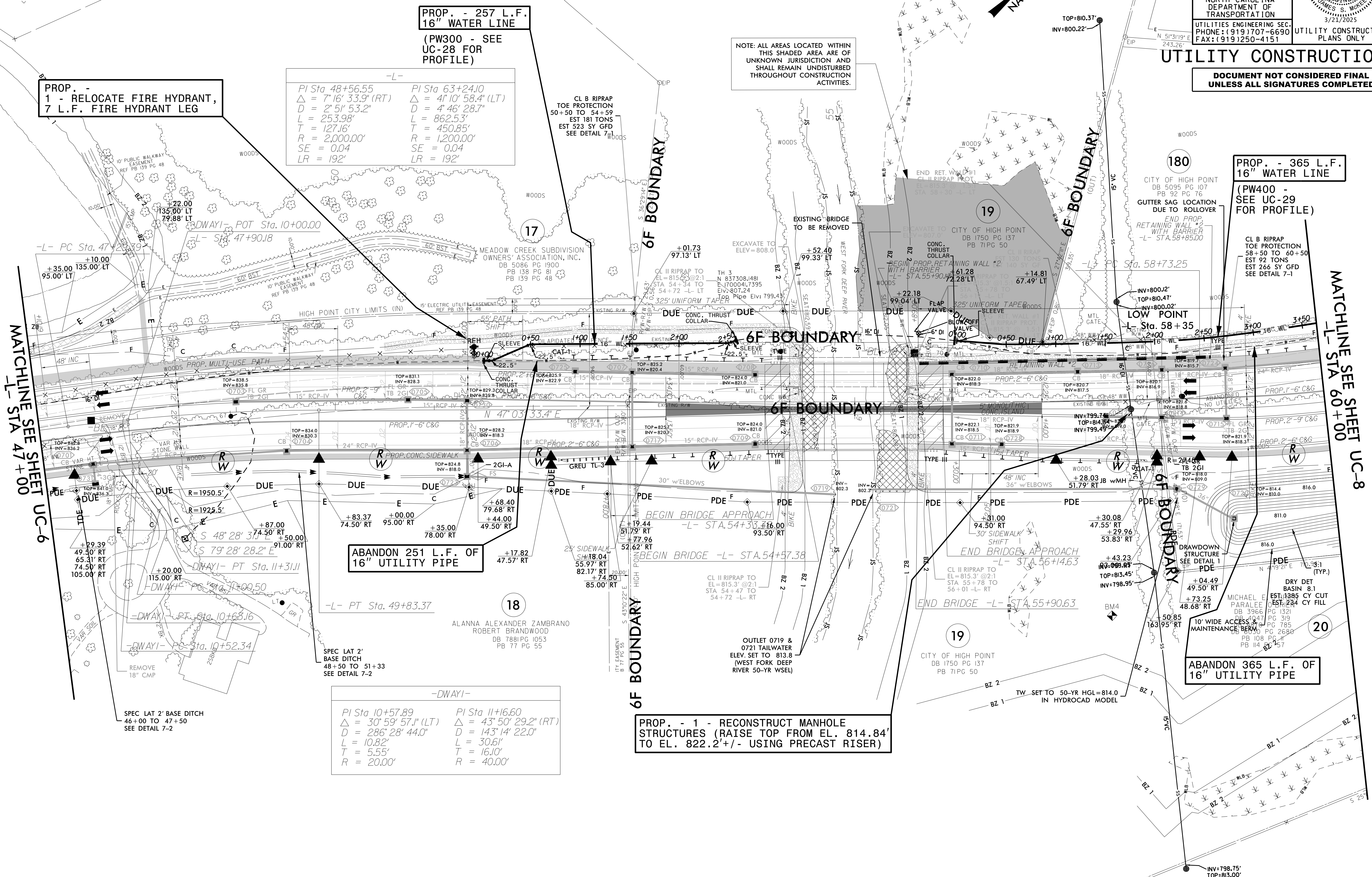
REVISIONS



PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-7
DESIGNED BY: DMP		UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY: DMP		
CHECKED BY: DMP		
APPROVED BY:		
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



THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,425 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY CONSTRUCTION PLANS PREPARED BY:
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PHONE: (336) 886-4821 FAX: (336) 886-4458
WWW.DMP-INC.COM LICENSE: F-0245

25 0

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REVISIONS

MATCHLINE SEE SHEET UC-9
-L- STA 73+00

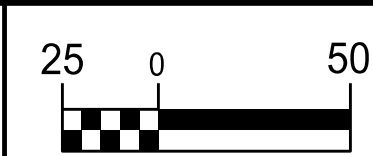
UTILITY CONSTRUCTION PLANS PREPARED BY:

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

6415 OLD PLANK RD. HIGH POINT, NC 27265
PHONE: (336)886-4821 FAX: (336)886-4458
WWW.DMP-INC.COM LICENSE: F-0245

dmp

REVISIONS



NAD 83/2011

PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-9
DESIGNED BY:	DMP	
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		3/21/2023
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

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PROP. - 1 RELOCATE
FIRE HYDRANT,
1 - 16" x 6" TAPPING
SLEEVE & VALVE,
7 LF FIRE HYDRANT LEG

MATCHLINE SEE SHEET UC-8
-L- STA 73+00

MATCHLINE SEE SHEET UC-10
-L- STA 85+00

-L-
PI Sta 82+55.54
 $\Delta = 17^{\circ} 49' 37.3"$ (LT)
 $D = 3^{\circ} 10' 59.2"$
 $L = 560.05'$
 $T = 282.31'$
 $R = 1,800.00'$
 $SE = 0.04$
 $LR = 192'$

-Y4-
PI Sta 12+22.84
 $\Delta = 8^{\circ} 22' 01.9"$ (RT)
 $D = 10^{\circ} 36' 37.2"$
 $L = 78.86'$
 $T = 39.50'$
 $R = 540.00'$

-DWAY3-
PI Sta 10+59.14
 $\Delta = 16^{\circ} 19' 57.2"$ (LT)
 $D = 229^{\circ} 10' 59.2"$
 $L = 7.13'$
 $T = 3.59'$
 $R = 25.00'$

PI Sta 11+45.97
 $\Delta = 11^{\circ} 06' 35.9"$ (RT)
 $D = 38^{\circ} 11' 49.9"$
 $L = 29.09'$
 $T = 14.59'$
 $R = 150.00'$

-DWAY4-
PI Sta 10+87.38
 $\Delta = 61^{\circ} 08' 16.4"$ (LT)
 $D = 190^{\circ} 59' 09.4"$
 $L = 32.01'$
 $T = 17.72'$
 $R = 30.00'$

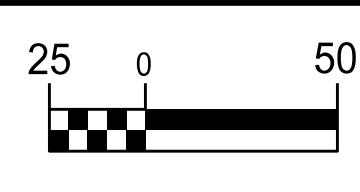
-DWAY5-
PI Sta 10+56.02
 $\Delta = 33^{\circ} 10' 17.6"$ (RT)
 $D = 286^{\circ} 28' 44.0"$
 $L = 11.58'$
 $T = 5.96'$
 $R = 20.00'$

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 0 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY CONSTRUCTION PLANS PREPARED BY:
DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS
6415 OLD PLANK RD, HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458
WWW.DMP-INC.COM LICENSE: F-0425

5/14/2011

REVISIONS



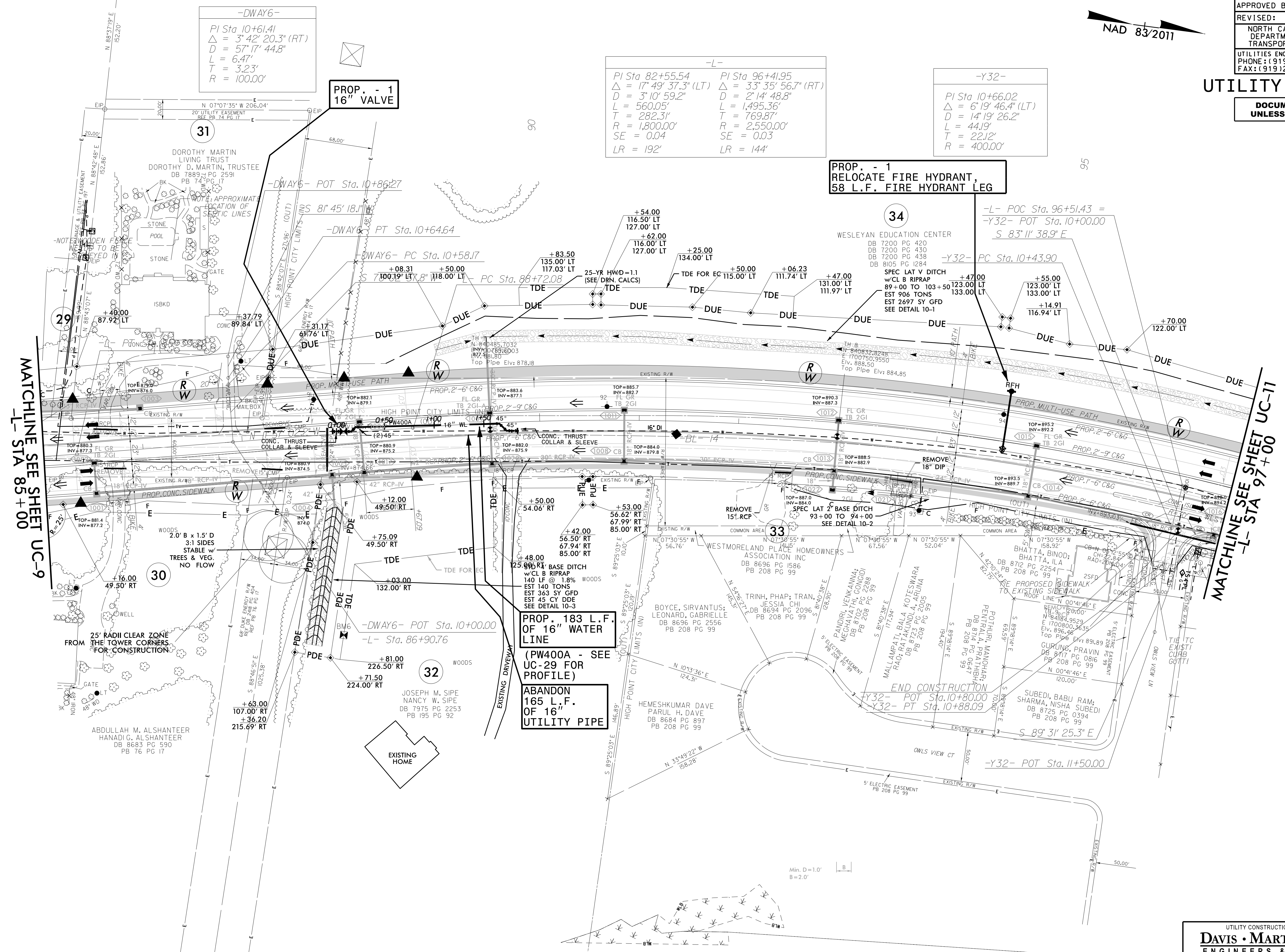
NAD 83/2011

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,065 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-10
DESIGNED BY:	DMP	NORTH CAROLINA PROFESSIONAL SEAL James S. Moore 16832 3/21/2025 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		

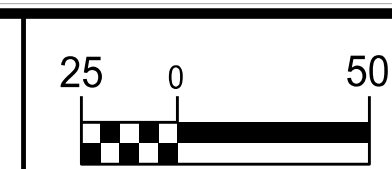
UTILITY CONSTRUCTION

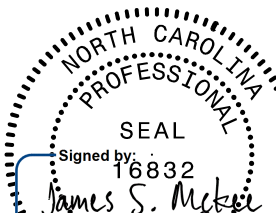
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCHLINE SEE SHEET UC-11
-L- STA 97+00

MATCHLINE SEE SHEET UC-9
-L- STA 85+00



PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-11
DESIGNED BY: DMP		
DRAWN BY: DMP		
CHECKED BY: DMP		
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

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REVISIONS

PROP. - 326 L.F.
OF 12" WATER LINE
(PW501 - SEE
UC-30 FOR PROFILE)

ABANDON 224 L.F.
OF 12" UTILITY
PIPE

PROP. - 1 - RELOCATE FIRE HYDRANT,
1 - 6" VALVE, 21 L.F. FIRE
HYDRANT LEG

ABANDON 229 L.F. OF
16" UTILITY PIPE

PROP. - 1 - 16" VALVE,
1 - 16" LINE STOP,
13 L.F. OF 16" WATER LINE

PROP. - 1 - 16" VALVE
1 - 12" CROSS
16" X 12" CROSS

PROP. - 191 L.F.
OF 16" WATER LINE
(PW500 - SEE
UC-29 FOR PROFILE)

PROP. - 50 L.F.
OF 16" WATER LINE

ABANDON 129 L.F.
OF 12" UTILITY
PIPE

PROP. - 26 L.F.
OF 16" WATER LINE
(PW600 - SEE
UC-30 FOR PROFILE)

MATCHLINE SEE SHEET UC-10
-L- STA 97+00

MATCHLINE SEE SHEET UC-12
-L- STA 110+00

-L-	
PI Sta 96+41.95	PI Sta 106+73.36
Δ = 33° 35' 56.7" (RT)	Δ = 20° 24' 12.1" (RT)
D = 2' 14' 48.8"	D = 3' 22' 13.2"
L = 1,495.36'	L = 605.38'
T = 769.87'	T = 305.93'
R = 2,550.00'	R = 1,700.00'
SE = 0.03	SE = 0.04
LR = 144'	LR = 192'

-Y30-	
PI Sta 12+23.65	
Δ = 5° 37' 40.8" (LT)	
D = 10' 25' 02.7"	
L = 540.2'	
T = 27.03'	
R = 550.00'	

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 6,315 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY CONSTRUCTION PLANS PREPARED BY:
DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS
6415 OLD PLANK RD, HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458
WWW.DMP-INC.COM LICENSE: F-0245



Professional Engineer Seal for James S. McKee, North Carolina, License No. 16832, dated 3/21/2025.



MATCHLINE SEE SHEET UC-14
-L- STA 136 + 00

PROP. - 122 L.F.
OF 16" WATER LINE

PROP. - 279 L.F.
OF 16" WATER LINE

PROP. - 1 - 16" VALVE,
13 L.F. OF 16" WATER
LINE, 1 - 16" LINE STOP

[illegible]

UTILITY CONSTRUCTION PLANS PREPARED BY:

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

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PHONE: (336)886-4821 FAX: (336)886-4458
WWW.DMP-INC.COM LICENSE: F-0245

The logo for Davis • Martin • Powell Engineers & Surveyors, featuring the lowercase letters 'dmp' in a bold, stylized font. The 'd' and 'm' are connected, and the 'p' is separate. The letters are black with a white outline.

REVISIONS

MATCHLINE SEE SHEET UC-13
-L- STA 136+00

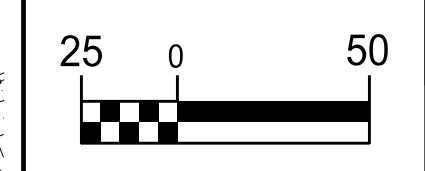
PROP. - 86 L.F.
OF 16" WATER LINE
(PW1000 - SEE
UC-30 FOR PROFILE)
PROP. - 1 - 16" VALVE,
13 L.F. OF 16" WATER
LINE, 1 - 16" LINE STOP

PROP. - 1 - RELOCATE FIRE
HYDRANT, 21 L.F. FIRE
HYDRANT LEG

PROP. - 1 - 16" VALVE,
13 L.F. OF 16" WATER
LINE, 1 - 16" LINE STOP

PROP. - 111 L.F.
OF 16" WATER LINE
(PW1100 - SEE
UC-31 FOR PROFILE)

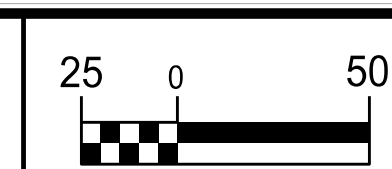
THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 1,505 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
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PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-14
DESIGNED BY:	DMP	PROFESSIONAL SEAL James S. McKel 6832 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 3/21/2025 UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		



PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-15
DESIGNED BY:	DMP	PROFESSIONAL SEAL James S. McKee 3/21/2025 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

MATCHLINE SEE SHEET UC-16
-L- STA 159+00

MATCHLINE SEE SHEET UC-14
-L- STA 148+00

-Y10-
PI Sta 13+39.69
Δ = 25° 29' 04.3" (RT)
D = 11' 27' 33.0"
L = 222.39'
T = 113.07'
R = 500.00'
SE = 0.06
LR = 126'

-L-
PI Sta 148+45.68
Δ = 27° 45' 23.5" (RT)
D = 3' 49' 11.0"
L = 726.66'
T = 370.61'
R = 1,500.00'
SE = 0.04
LR = 192'

PROP. - 1 - 16" VALVE,
1 - 16" LINE STOP

PROP. - 47 L.F.
OF 16" WATER LINE
(PW1100A - SEE
UC-31 FOR PROFILE)

ABANDON 150
L.F. OF 16"
UTILITY PIPE

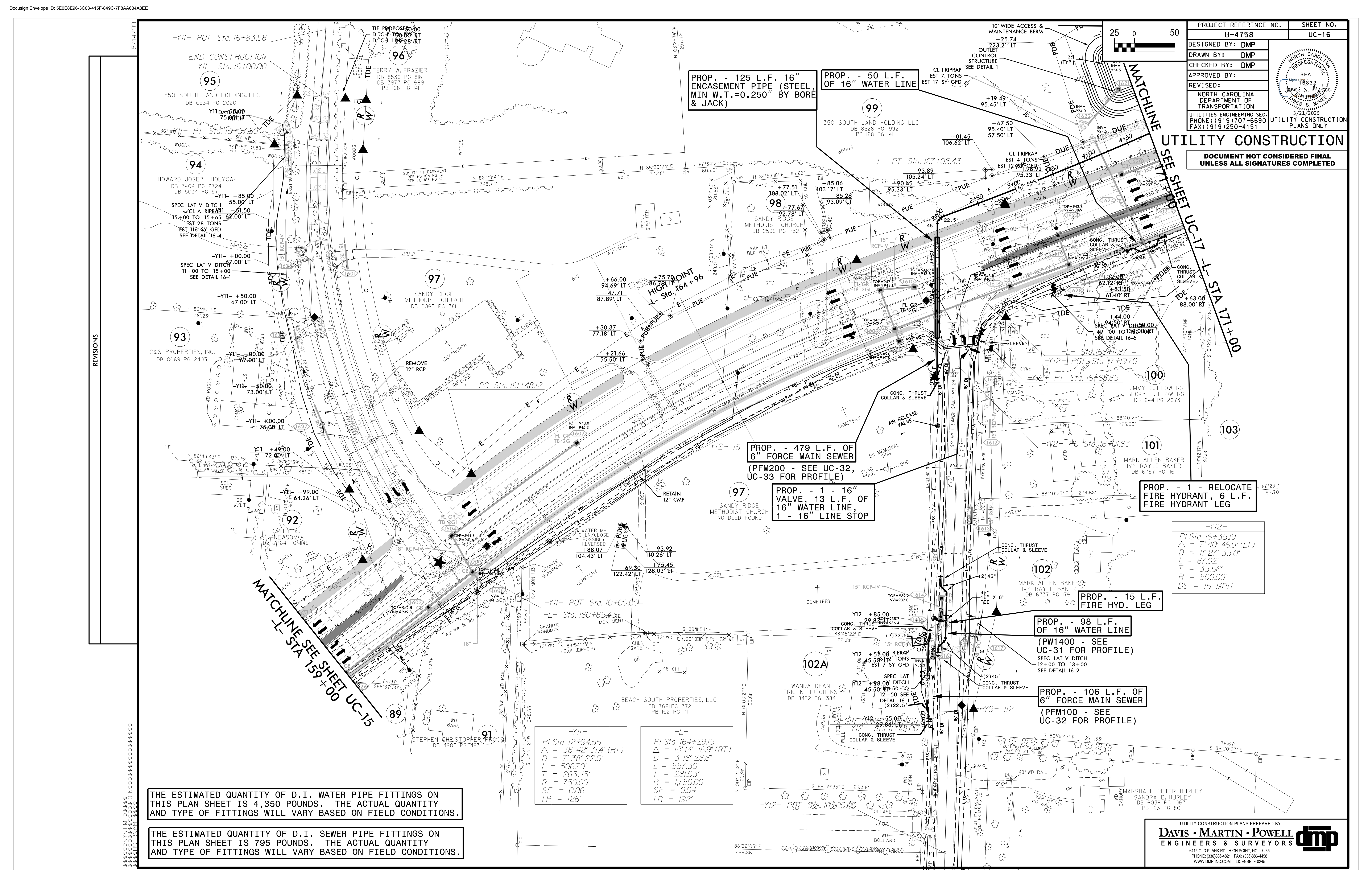
PROP. - 163 L.F.
OF 16" WATER LINE
(PW1300-SEE UC-31
FOR PROFILE)

PROP. - 138 L.F.
OF 16" WATER LINE
(PW1200 - SEE
UC-31 FOR PROFILE)

PROP. - 27 L.F.
OF 16" WATER LINE
(PW1100 - SEE
UC-31 FOR PROFILE)

PROP. - 1 - RELOCATE FIRE
HYDRANT, 92 L.F. FIRE
HYDRANT LEG

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON
THIS PLAN SHEET IS 6,640 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



PROJECT REFERENCE NO.		SHEET NO.
U-4758		UC-16
DESIGNED BY:	DMP	PROFESSIONAL SEAL James S. McKee 3/21/2025 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	DMP	
CHECKED BY:	DMP	
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

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THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4,350 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 795 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

-Y11-	-L-
PI Sta 12+94.55	PI Sta 164+29.15
$\Delta = 38^{\circ} 42' 31.4"$ (RT)	$\Delta = 18^{\circ} 14' 46.9"$ (RT)
$D = 7^{\circ} 38' 22.0"$	$D = 3^{\circ} 16' 26.6"$
$L = 506.70'$	$L = 557.30'$
$T = 263.45'$	$T = 281.03'$
$R = 750.00'$	$R = 1,750.00'$
$SE = 0.06$	$SE = 0.04$
$LR = 126'$	$LR = 192'$

-Y12-
PI Sta 16+35.19
 $\Delta = 7^{\circ} 40' 46.9"$ (LT)
 $D = 11^{\circ} 27' 33.0"$
 $L = 67.02'$
 $T = 33.56'$
 $R = 500.00'$
 $DS = 15$ MPH

PROP. - 479 L.F. OF
6" FORCE MAIN SEWER
(PFM200 - SEE UC-32,
UC-33 FOR PROFILE)

PROP. - 1 - 16"
VALVE, 13 L.F. OF
16" WATER LINE,
1 - 16" LINE STOP

PROP. - 1 - RELOCATE
FIRE HYDRANT, 6 L.F.
FIRE HYDRANT LEG

PROP. - 15 L.F.
FIRE HYD. LEG

PROP. - 98 L.F.
OF 16" WATER LINE
(PW1400 - SEE
UC-31 FOR PROFILE)
SPEC LAT V DITCH
12+00 TO 13+00
SEE DETAIL 16-2

PROP. - 106 L.F. OF
6" FORCE MAIN SEWER
(PFM100 - SEE
UC-32 FOR PROFILE)