

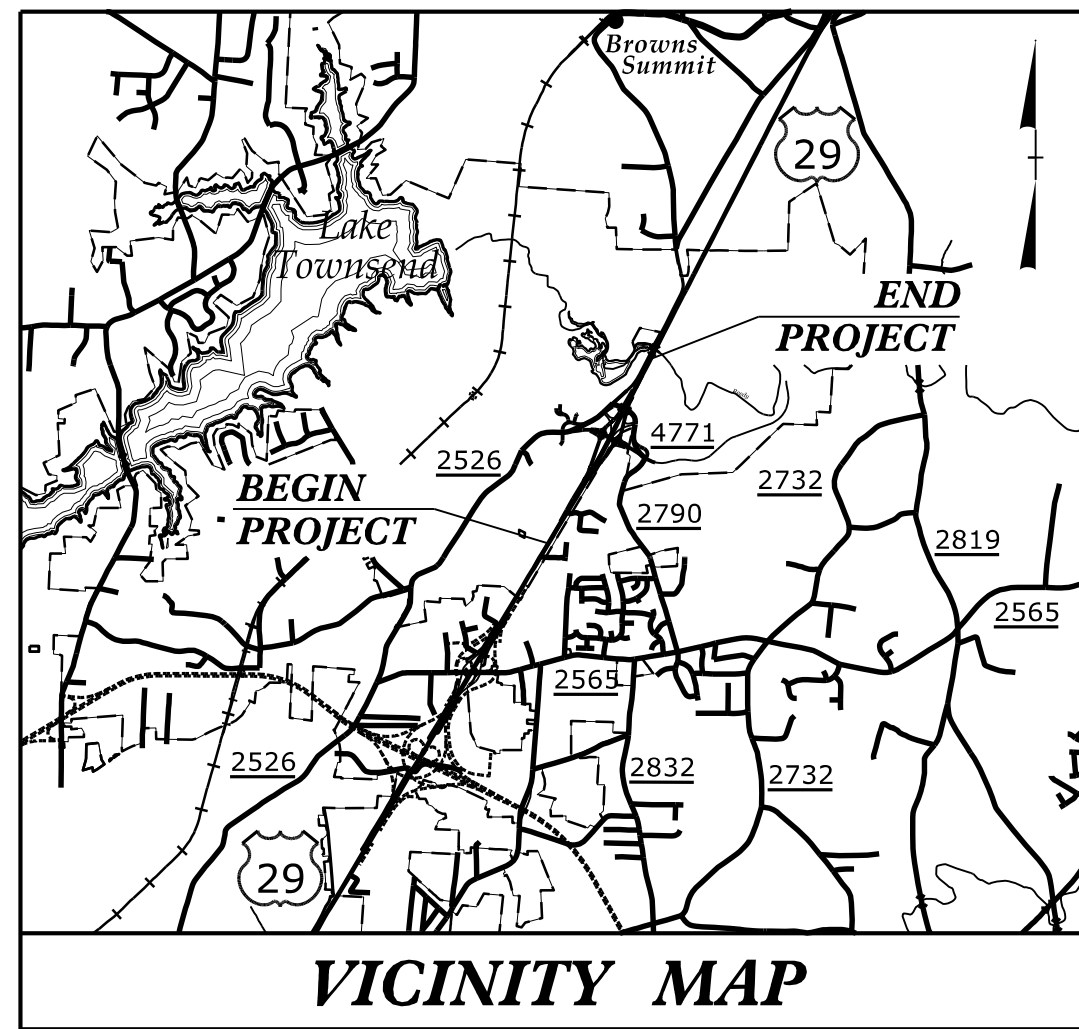
09_08/99

TIP PROJECT: R-4707

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS GUILFORD COUNTY

LOCATION: US 29 AND SR 4771 (REEDY FORK PARKWAY)
INTERCHANGE IMPROVEMENTS; IMPROVE ROADWAY,
MODIFY INTERCHANGE AND REPLACE BRIDGE 360
TYPE OF WORK: UTILITY CONSTRUCTION



T.I.P. NO.	SHEET NO.
R-4707	UC-1

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

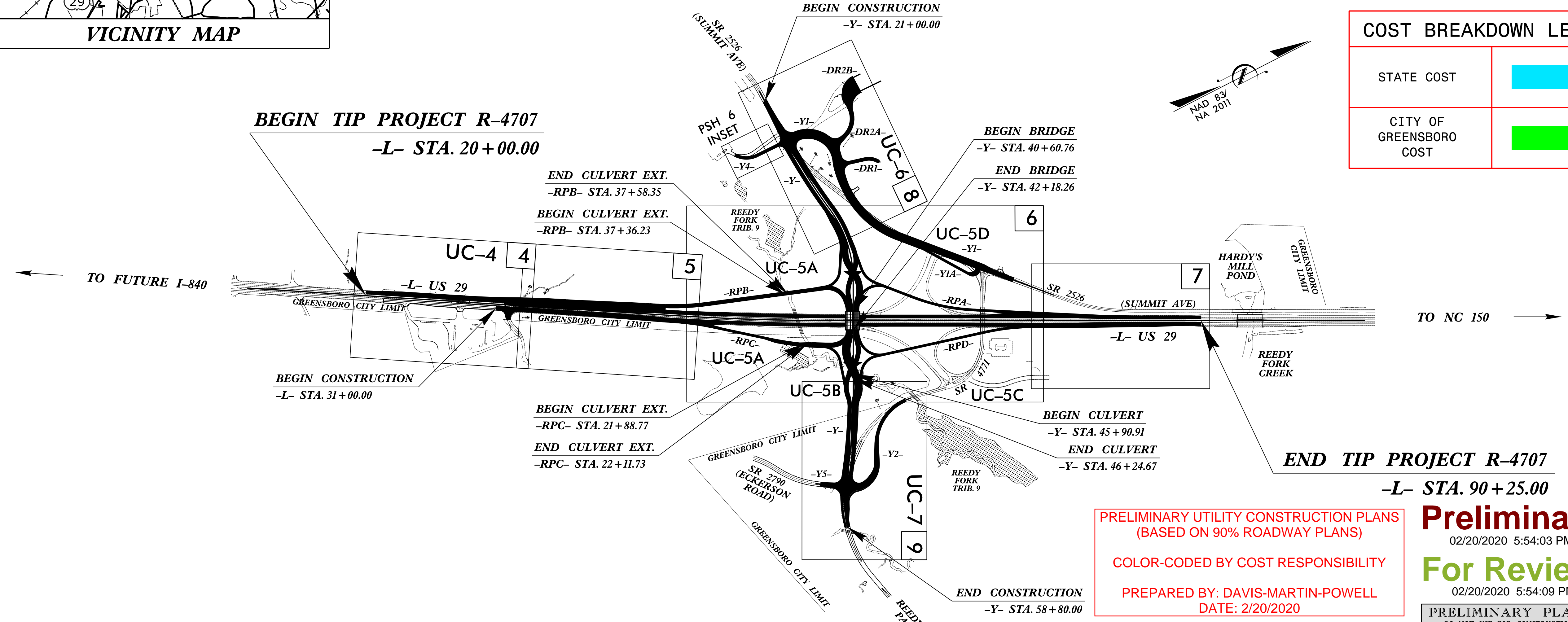
UTILITY AGREEMENT PLANS

EXHIBIT A

AGREEMENT PLANS

COST BREAKDOWN LEGEND

STATE COST	
CITY OF GREENSBORO COST	



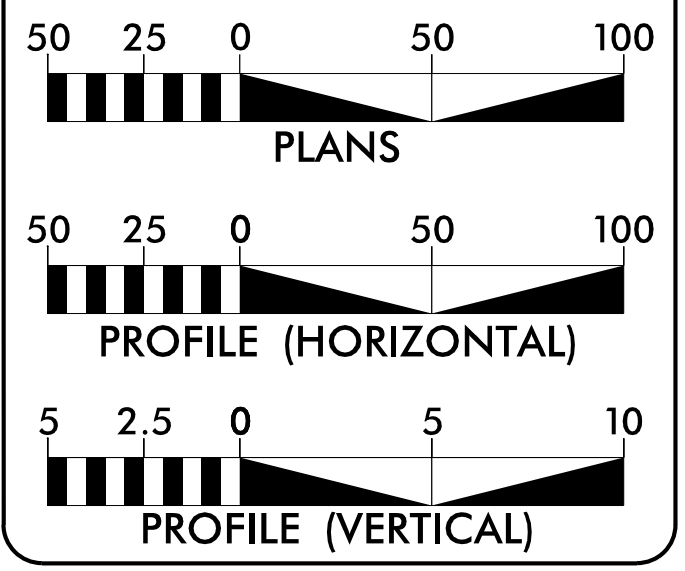
PRELIMINARY UTILITY CONSTRUCTION PLANS
(BASED ON 90% ROADWAY PLANS)
COLOR-CODED BY COST RESPONSIBILITY
PREPARED BY: DAVIS-MARTIN-POWELL
DATE: 2/20/2020

Preliminary
02/20/2020 5:54:03 PM
For Review
02/20/2020 5:54:09 PM

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3B	DETAILS
UC-4 THRU UC-7	UTILITY CONSTRUCTION SHEETS
UC-8 THRU UC-11	PROFILE SHEETS

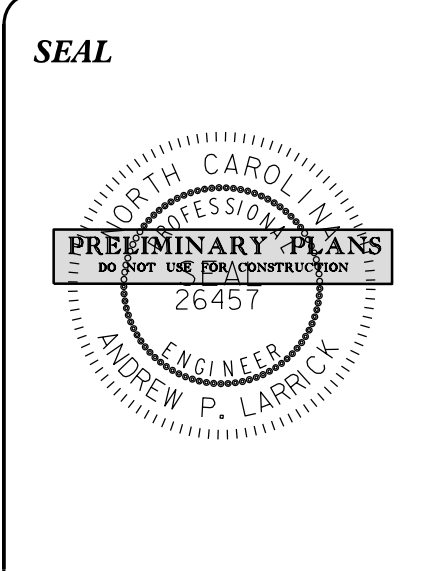
WATER AND SEWER OWNERS ON PROJECT

A) WATER - CITY OF GREENSBORO
B) SEWER - CITY OF GREENSBORO

PREPARED IN THE OFFICE OF:
DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27265
PHONE: (336)886-4821 FAX: (336)886-4438
WWW.DMP-INC.COM LICENSE: F-0245

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Steve McKee, P.E.	CONSULTANT CONTACT #2
Ralph Lowe	CONSULTANT CONTACT #3
Kyle Stalls	CONSULTANT CONTACT #4



DIVISION OF HIGHWAYS UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
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Tucker Martin, P.E.	CENTRAL UTILITIES MANAGER
Ali Kouchehi, P.E.	UTILITIES REGIONAL ENGINEER
Jon Loughry	UTILITIES ENGINEER
Dayton Martin	UTILITIES AREA COORDINATOR

20-FEB-2020 16:00 P:\2018\180136\NCDOT_Files\R4707\Utilities\Engineering\UC\Proj\R4707_ut_fsh_UC01_psh.dgn \$\$\$USERNAME\$\$\$

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	
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		*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.		

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

5/14/99
REV: 2/1/2012

5/14/99

REVISIONS

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO THE CITY OF GREENSBORO, UNLESS OTHERWISE NOTED.
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. 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. 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.
7. 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.
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 PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.


PROJECT SPECIFIC NOTES:

1. UNLESS OTHERWISE NOTED, FOR PROPOSED WATER MAINS AND SEWER MAINS 4" THRU 12" DIAMETER, PIPE SHALL BE DUCTILE IRON, PC 350. FOR PROPOSED WATER MAINS AND SEWER MAINS 16" THRU 36" DIAMETER, PIPE SHALL BE DUCTILE IRON, PC 250.
2. THE INTERIOR OF PROPOSED GRAVITY SEWER LINES 36" AND LARGER SHALL BE LINED WITH CERAMIC EPOXY COATING AS DESCRIBED IN THE UC PROJECT SPECIAL PROVISIONS.
3. FOR PROPOSED SANITARY SEWER MANHOLES ON SEWER LINES 36" AND LARGER, THE MANHOLES SHALL BE POLYMER CONCRETE, AS DESCRIBED IN THE UC PROJECT SPECIAL PROVISIONS.
4. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, RATED FOR 200 PSI MINIMUM WORKING PRESSURE.
5. A BOLLARD SHALL BE PLACED AT EACH END OF INSTALLED ENCASEMENT PIPES, PER THE DETAIL SHOWN ON SHEET UC-3A. THE COST FOR FURNISHING AND INSTALLING THE BOLLARDS SHALL BE INCIDENTAL TO THE CONTRACT.
6. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS 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.

7. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SEWER LATERALS AND/OR CLEANOUTS AS DIRECTED BY THE ENGINEER. THE NECESSARY QUANTITIES HAVE BEEN ADDED TO THE CONTRACT TO FACILITATE THIS PROCEDURE.
8. CONTRACTOR SHALL COORDINATE WITH THE CITY OF GREENSBORO WATER RESOURCES DEPARTMENT CONCERNING THE TIMING AND SCHEDULE OF REQUIRED SHUT-DOWNS OF ANY EXISTING WATER OR SEWER MAINS.
9. CONTRACTOR SHALL COORDINATE WITH PROCTOR AND GAMBLE ON ANY SHUT-DOWNS OF THE EXISTING PRIVATE 12" WATER LINE THAT SERVES THE PLANT (PARCEL 12). CONTACT PROCTOR AND GAMBLE AT LEAST TWO (2) WEEKS PRIOR TO ANY PLANNED SHUT-DOWNS OF THEIR WATER LINE. WHEN TYING IN THE PROPOSED WATER LINE RELOCATION TO THE EXISTING WATER LINE, LIMIT THE SHUT-DOWN OF THE WATER LINE TO NO LONGER THAN EIGHT (8) HOURS, UNLESS PROCTOR AND GAMBLE REQUIRES SOMETHING OTHERWISE.

LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

PROJECT REFERENCE NO. R-4707	SHEET NO. UC-3
DESIGNED BY: APL	
DRAWN BY: RDL	
CHECKED BY: APL	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

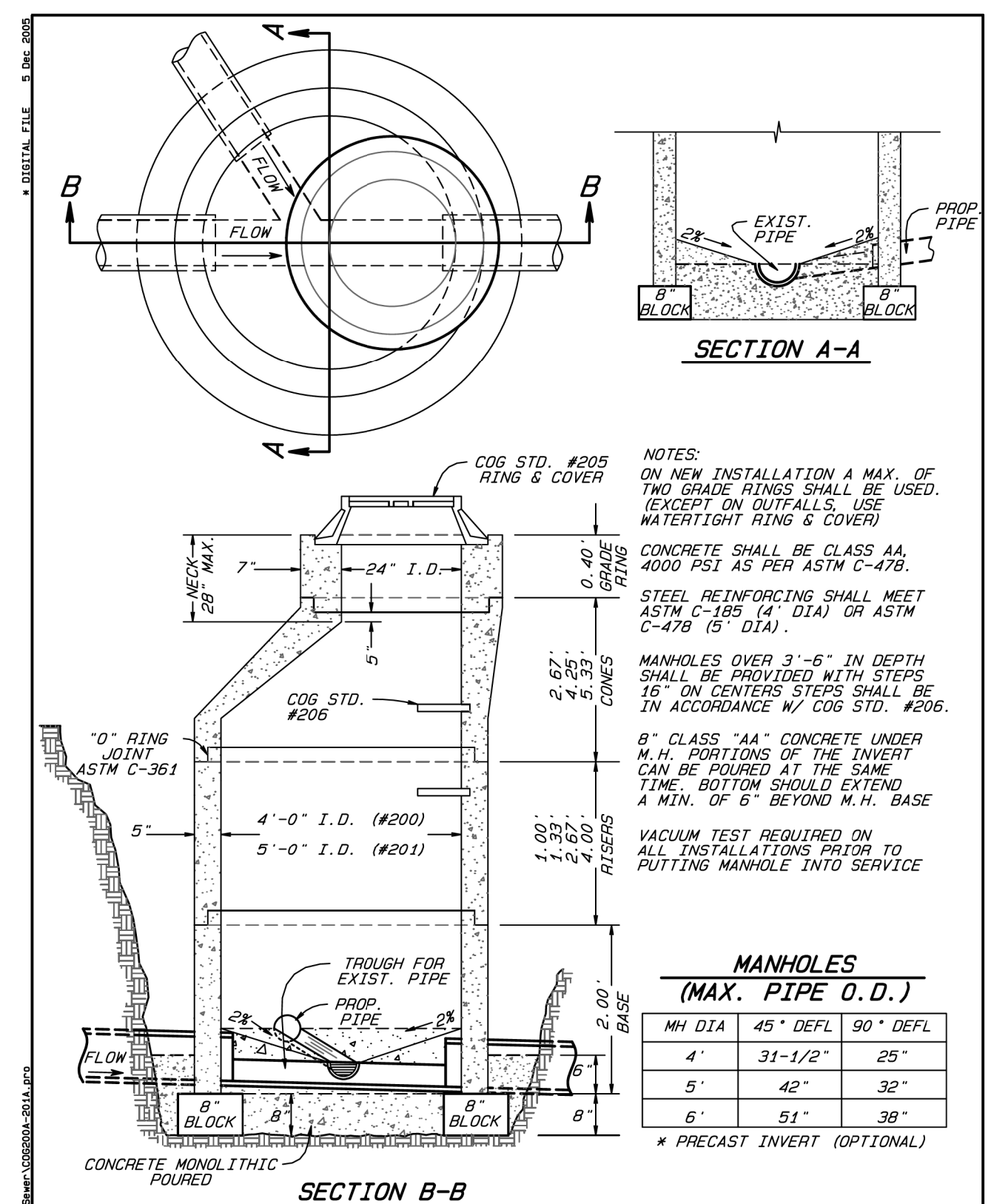
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

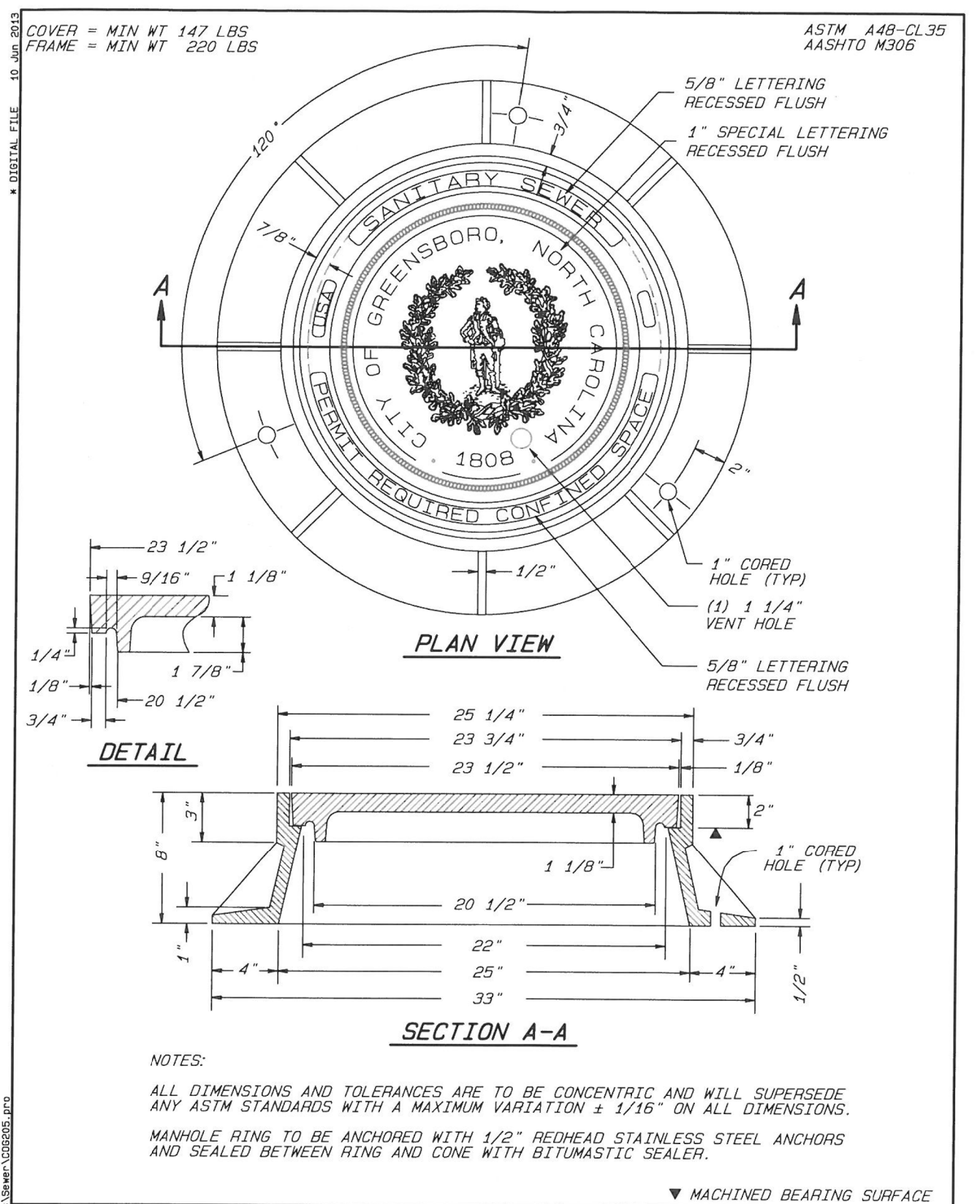
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

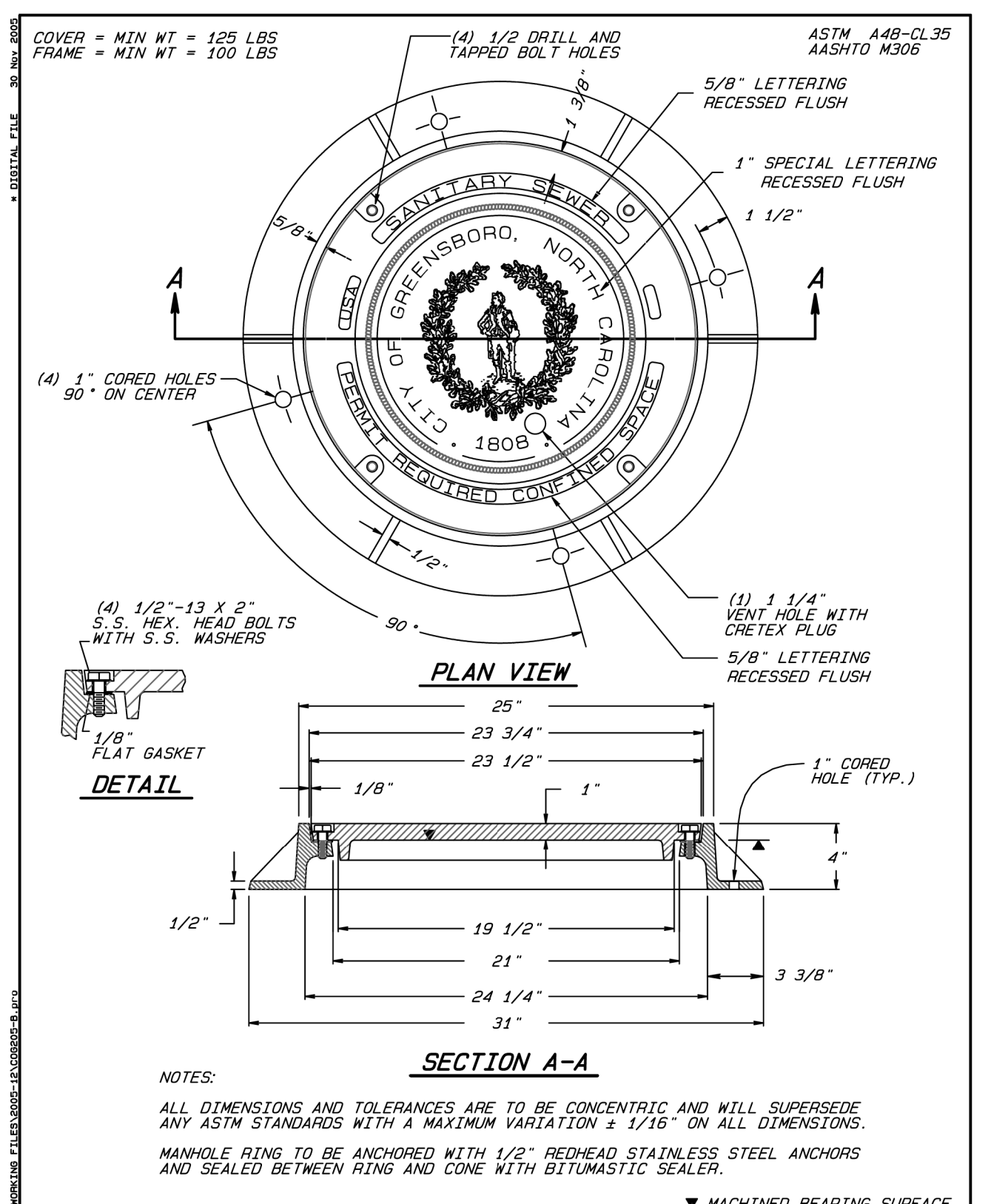
5/14/99



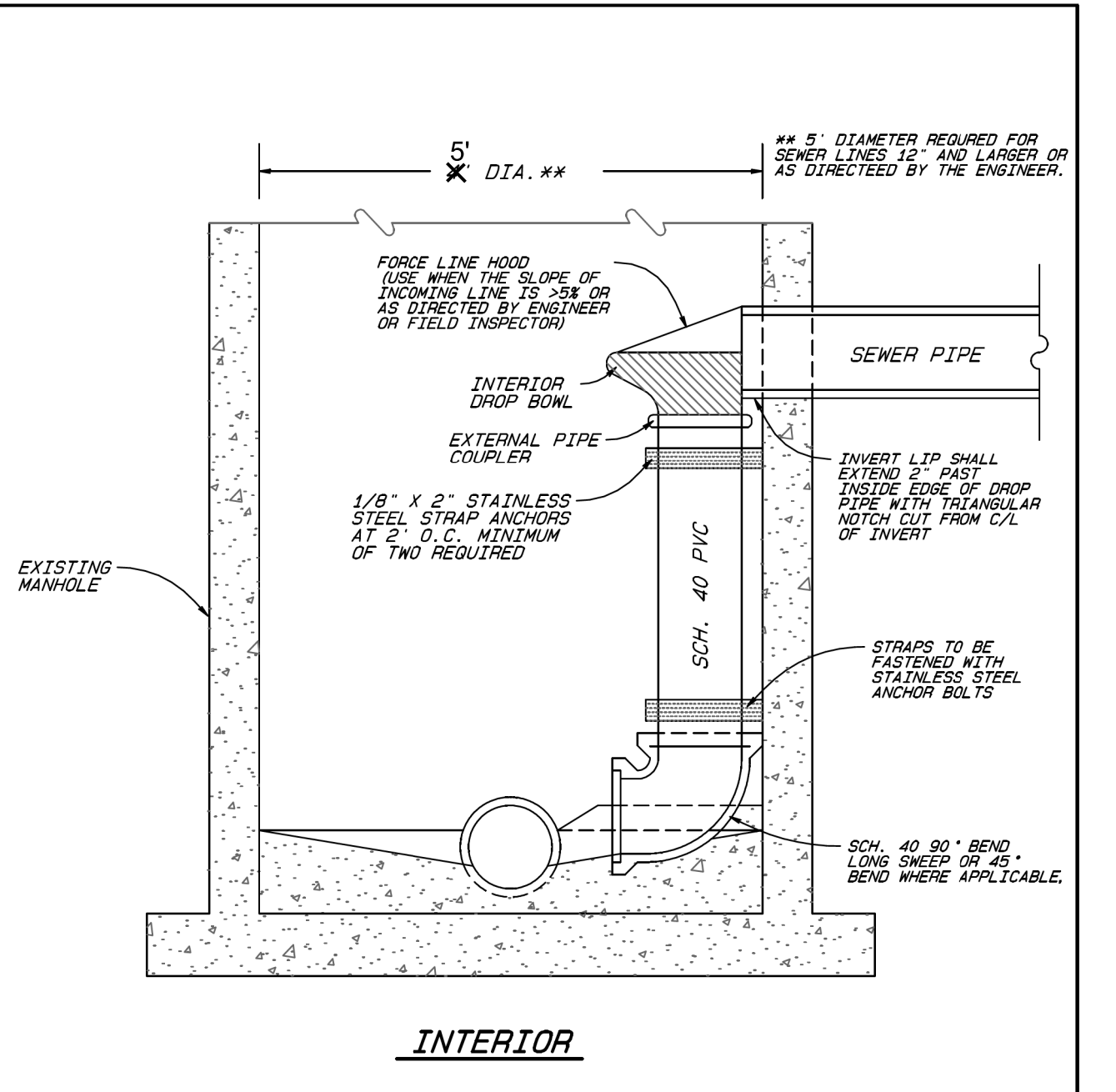
CITY OF GREENSBORO
 STANDARD 4' I.D. & 5' I.D. ECCENTRIC PRECAST BOTTOMLESS MANHOLE OVER EXISTING SANITARY SEWER (DOGHOUSE MANHOLE)
 STD. NO. 200A
 REV. DEC-05
 201A



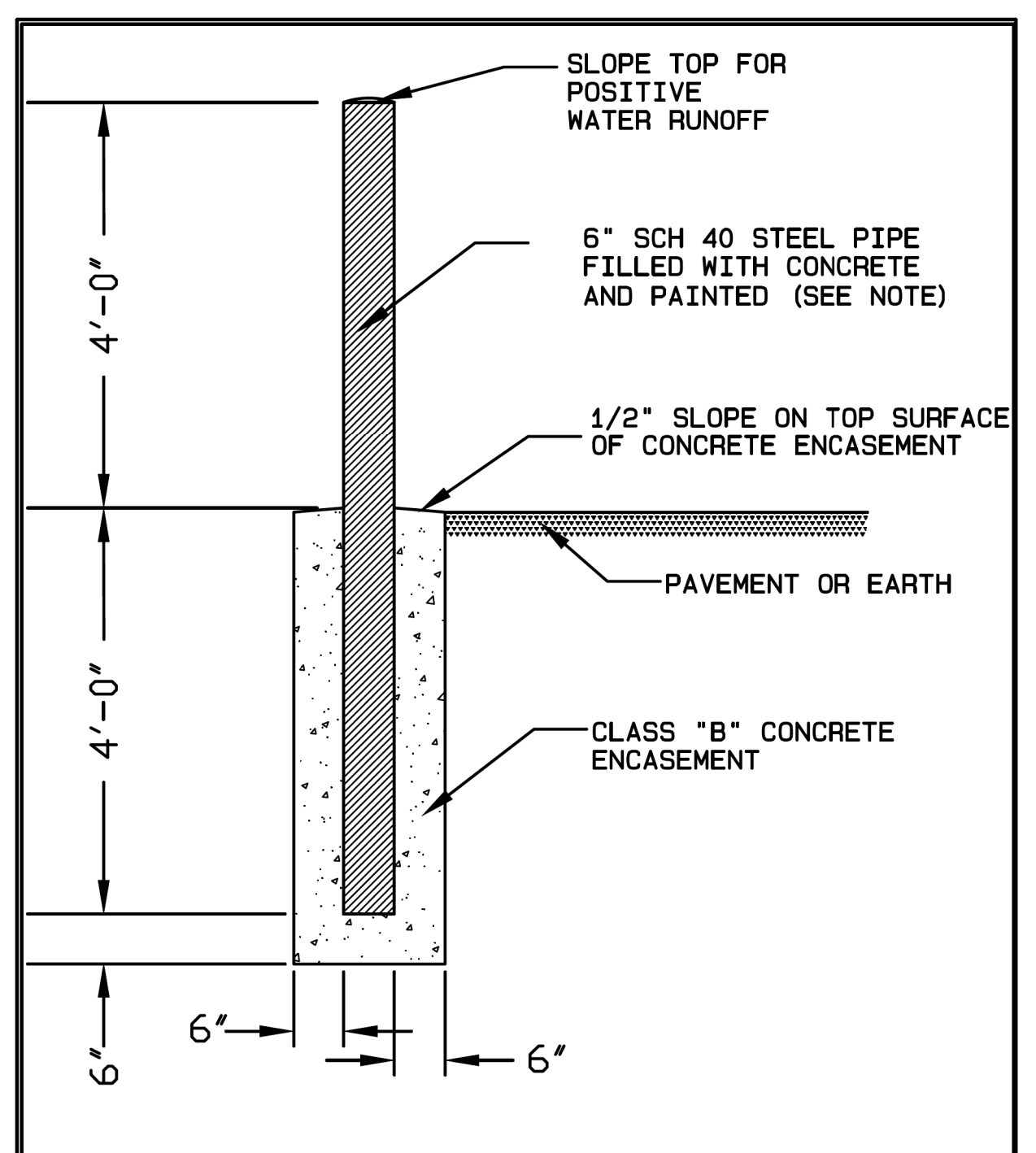
CITY OF GREENSBORO
 STANDARD MANHOLE RING AND COVER
 STD. NO. 205
 REV. 06-13



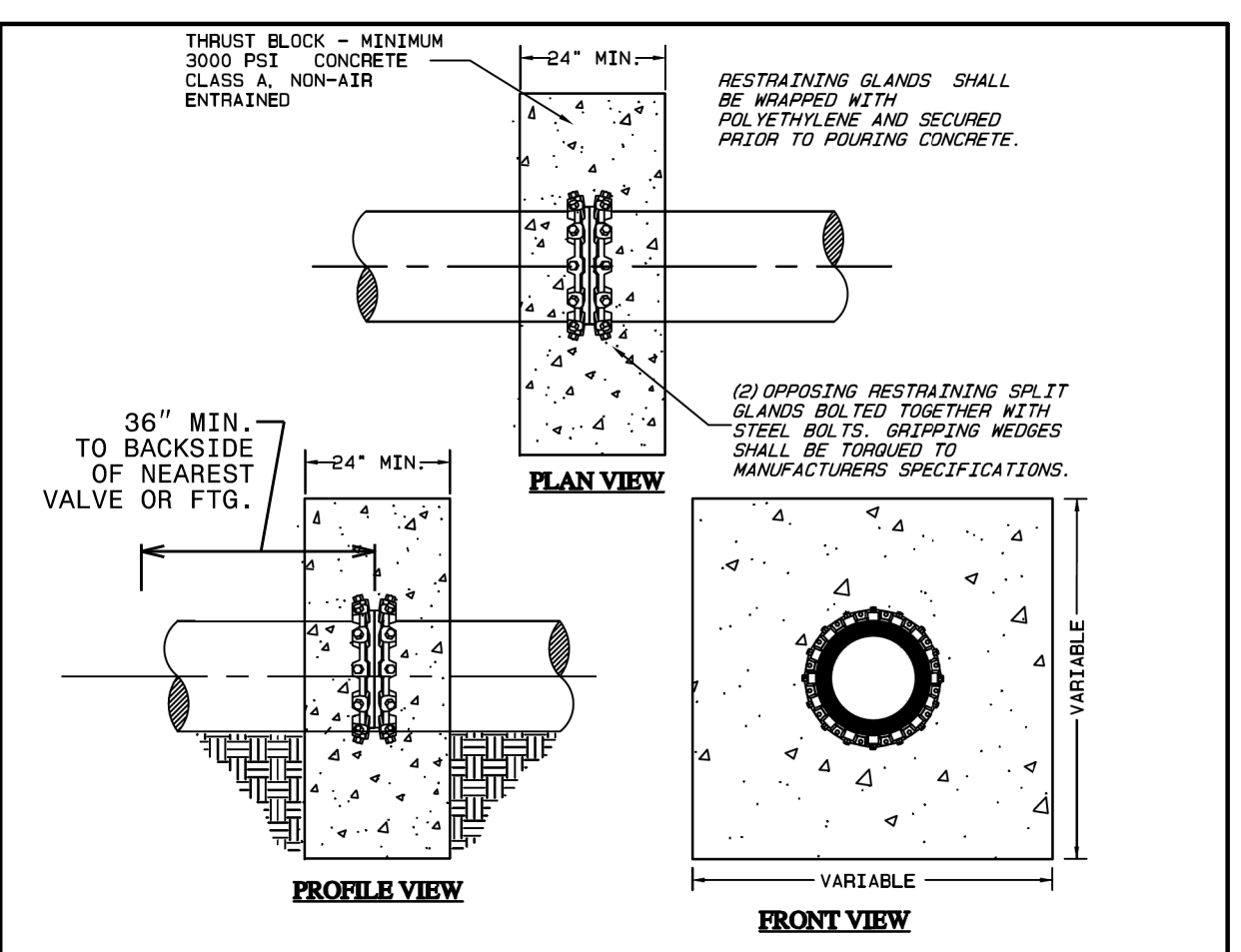
CITY OF GREENSBORO
 STANDARD WATERTIGHT MANHOLE RING AND COVER
 STD. NO. 205-B
 REV. MAR-97
 DEC-05
 MAR-99
 MAR-01



CITY OF GREENSBORO
 DROP CONNECTION (INTERIOR) FOR EXISTING SANITARY SEWER MANHOLE
 STD. NO. 203
 REV. 06-03
 03-14

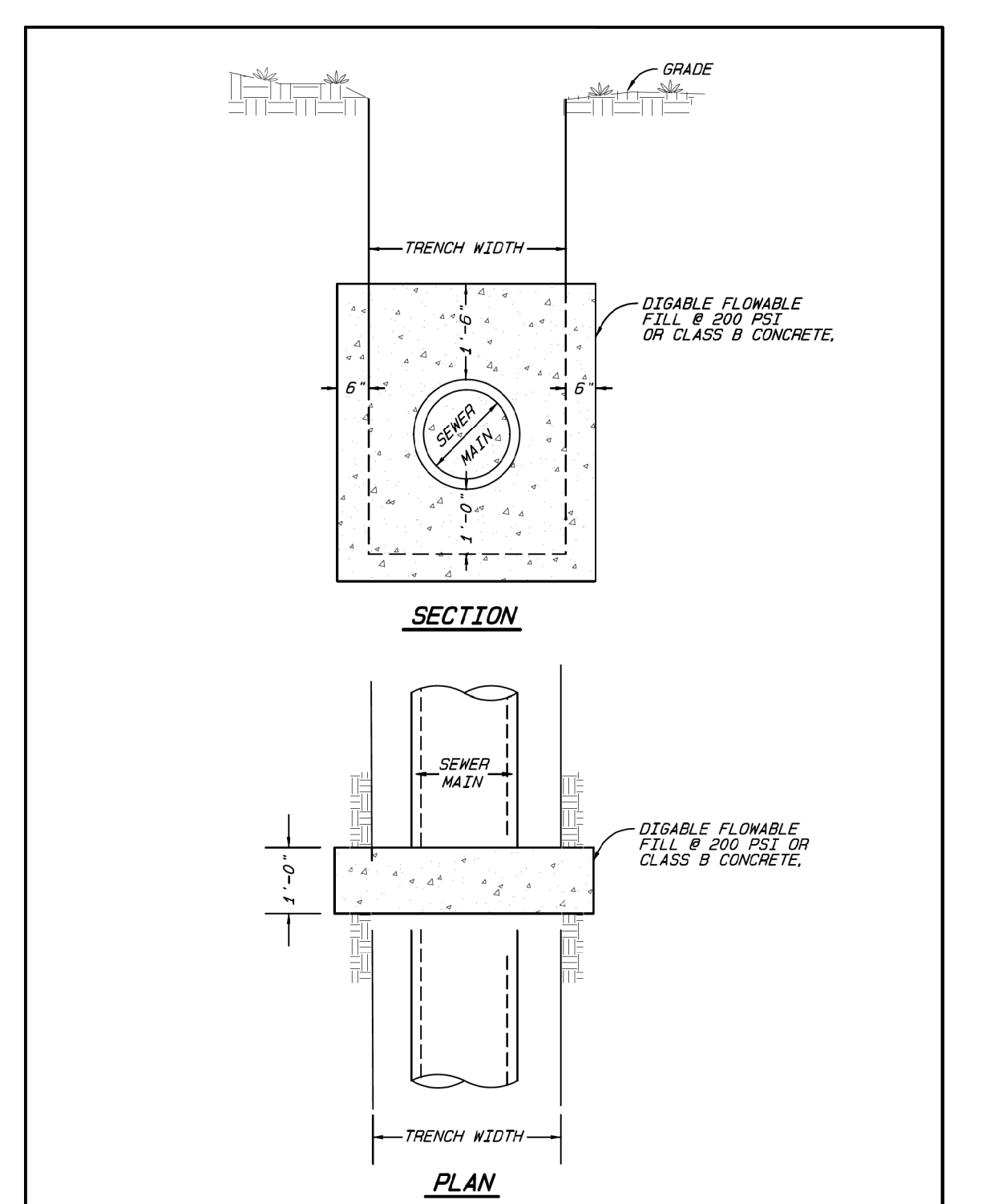


CITY OF GREENSBORO
 BOLLARD (STATIONARY)
 STD. NO. 121
 REV. 06/15



CITY OF GREENSBORO
 DEADMAN THRUST RESTRAINT WITH MASS WEIGHT BLOCKING
 STD. NO. 118
 REV. 06-13
 06-15

PIPE DIAMETER	MINIMUM CUBIC YARDS OF CONCRETE REQUIRED		
	150 PSI TEST PRES.	200 PSI TEST PRES.	250 PSI TEST PRES.
6"	0.75	1.0	1.25
8"	1.5	2.0	2.25
10"	2.0	3.0	3.5
12"	3.0	4.0	5.0
16"	5.5	7.25	9.0



CITY OF GREENSBORO
 ANTI-SEEP PIPE COLLAR FOR SEWER LINES
 STD. NO. 219
 REV. 06-15

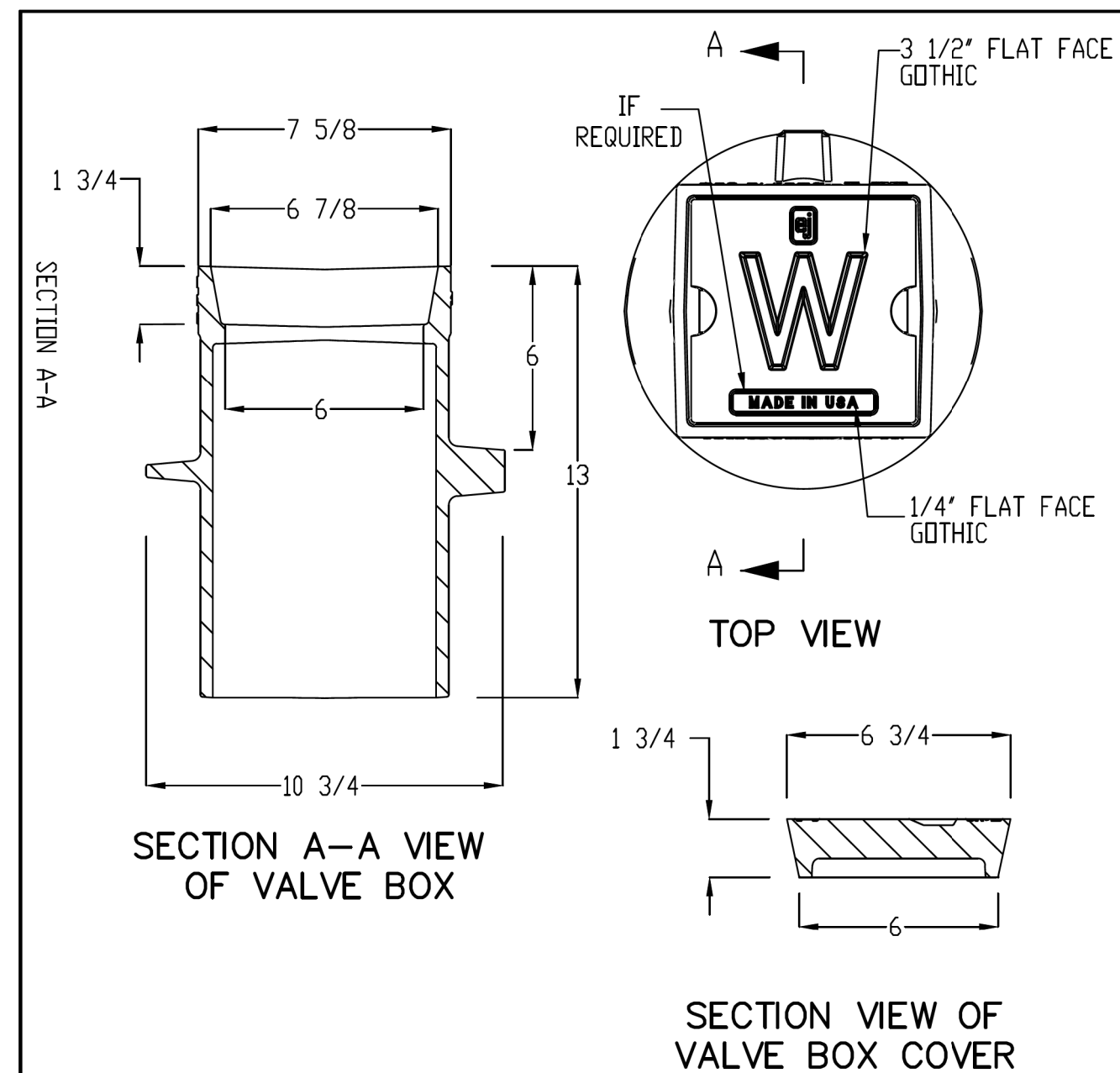
PROJECT REFERENCE NO. R-4707
 SHEET NO. UC-3A
 DESIGNED BY: APL
 DRAWN BY: RDL
 CHECKED BY: APL
 APPROVED BY:
 REVISED:
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
 UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION
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 PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
 UTILITY AGREEMENT PLANS

UTILITY CONSTRUCTION PLANS PREPARED BY:
DAVIS • MARTIN • POWELL
 ENGINEERS & SURVEYORS
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 WWW.DMP-INC.COM LICENSE: F-0245

5/14/99

REVISIONS

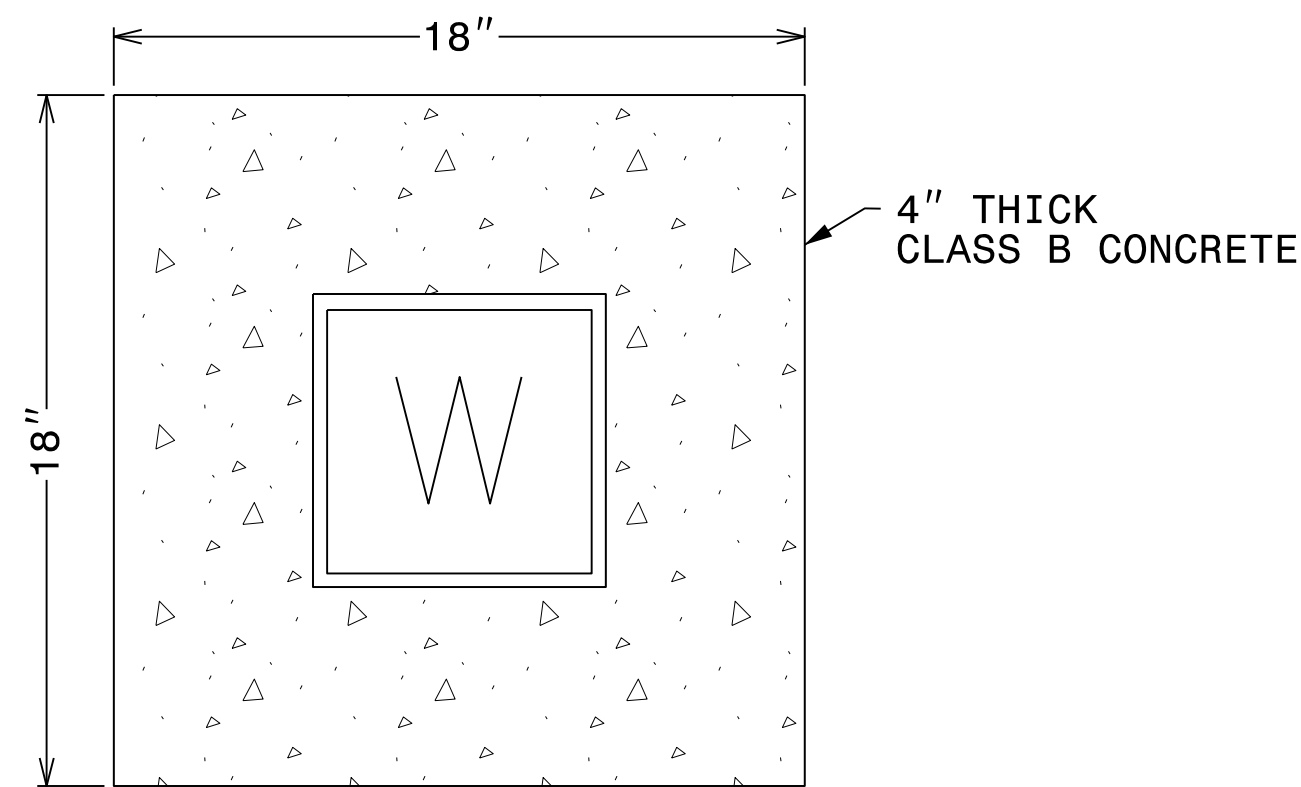


- NOTES:
1. VALVE BOX EXTENSION SHALL BE EITHER 6" DIA. SOIL PIPE OR SCH. 40 PVC PIPE.
 2. EXTENSION TO BE ONE SOLID PIECE OF PIPE UNLESS BURIAL DEPTH IS GREATER THAN STANDARD LENGTH OF PIPE. A BELL OR COUPLING SHALL BE UTILIZED AT THE TOP OF VALVE CONNECTION (SEE COG STD #101).
 3. LETTER HEIGHT 3-1/2"
 4. COUNTERSINK LETTER 3/16"
 5. TO BE USED IN PAVED OR NON-PAVED AREAS.
 6. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M306.
 7. DUE TO VARIATIONS IN CASTINGS OF DIFFERENT MANUFACTURER'S, DIMENSIONS SHALL BE WITHIN REASONABLE TOLERANCES AS PRE-APPROVED BY GREENSBORO WATER RESOURCES DEPARTMENT AND/OR FIELD INSPECTOR PRIOR TO INSTALLATION.
 8. VALVE BOX MAY BE REQUIRED TO BE "MADE IN U.S.A." IF FEDERAL FUNDS ARE INVOLVED.

CITY OF GREENSBORO

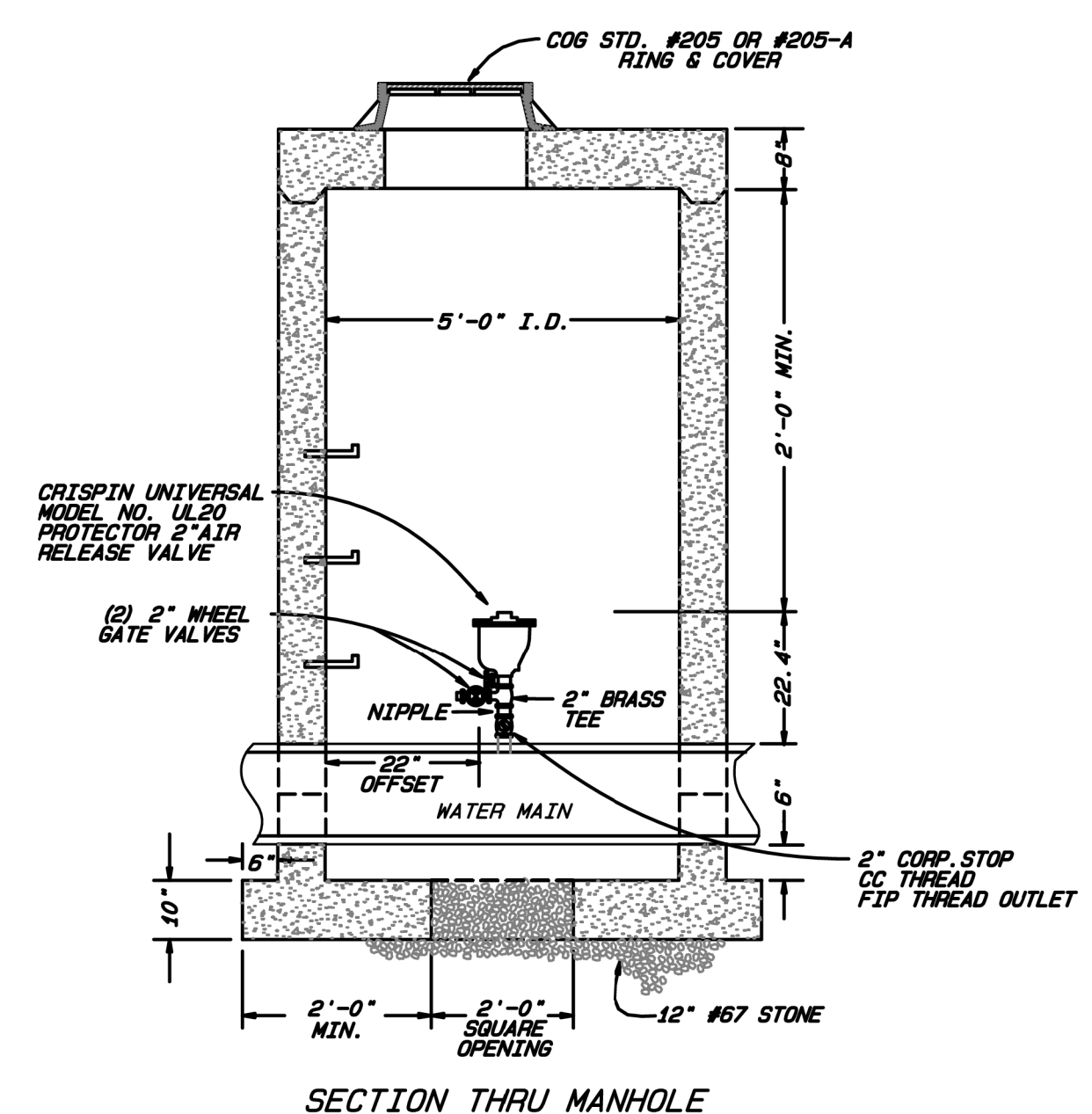
WATER VALVE BOX AND EXTENSION

STD. NO.	REV.
102	03-93 03-12 08-02 12-12 09-10 03-13



CONCRETE COLLAR FOR VALVE BOX
(PROVIDE FOR ALL VALVE BOXES NOT IN PAVED AREAS)

- NOTES:
- CONCRETE SHALL BE CLASS AA, 4000 PSI AS PER ASTM C-478.
 - STEEL REINFORCING SHALL MEET ASTM C-185 (4" DIA) OR ASTM C-478 (5" DIA).
 - MANHOLES OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 16" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH COG STD. #206.
 - ON NEW INSTALLATION A MAXIMUM OF (2) GRADE RINGS CAN BE USED.
 - ALL PIPE TO BE MINIMUM 2" BRASS AND NIPPLES TO BE 2" BRASS.



CITY OF GREENSBORO

STANDARD AIR RELIEF VALVE WITH ASSEMBLY AND MANHOLE FOR WATER LINES

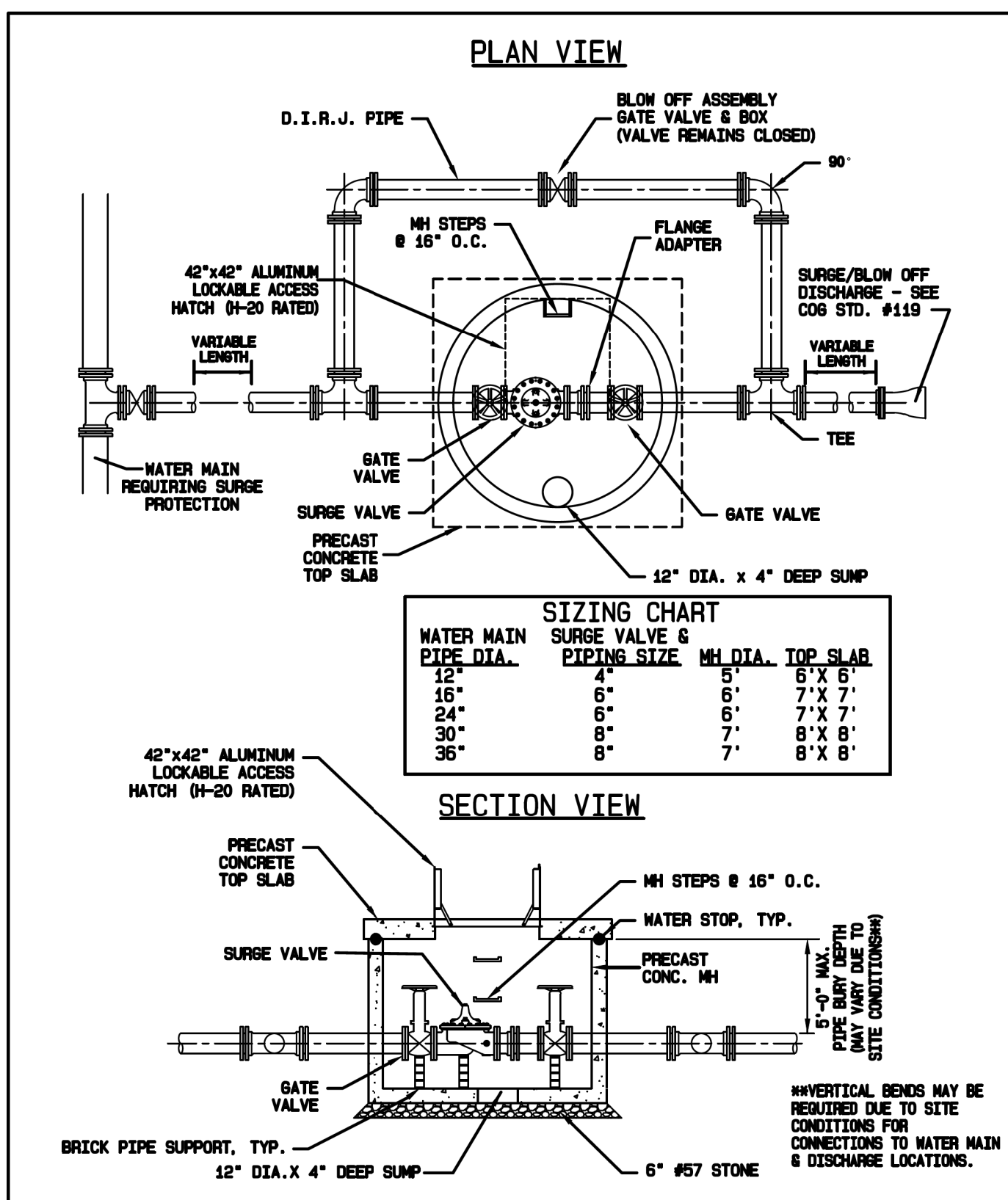
STD. NO.	REV.
116	06-99 09-02 11-01 06-07 08-02

NOTE:
FOR WATER AND SEWER ARV'S, INSTEAD OF TAPPING THE MAIN, CONTRACTOR SHALL INSTALL A MAIN-LINE TEE TURNED UPRIGHT, WITH A BLIND FLANGE BOLTED TO THE TOP SIDE OF THE TEE. THE BLIND FLANGE SHALL BE TAPPED TO ACCOMMODATE THE 2" CORP. STOP. COST FOR THE TEE AND TAPPED BLIND FLANGE SHALL BE INCIDENTAL TO THE COST OF THE 2" ARV.

SIZES FOR THE TEES SHALL BE BASED ON THE WATER OR SEWER MAIN SIZE AS INDICATED IN THE TABLE BELOW:

MAIN SIZE	TEE SIZE
6"	6"x4"
8"	8"x4"
12"	12"x6"
16"	16"x8"
18"	18"x12"
20"	20"x12"
24"	24"x12"
30"	30"x16"
36"	36"x18"

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		

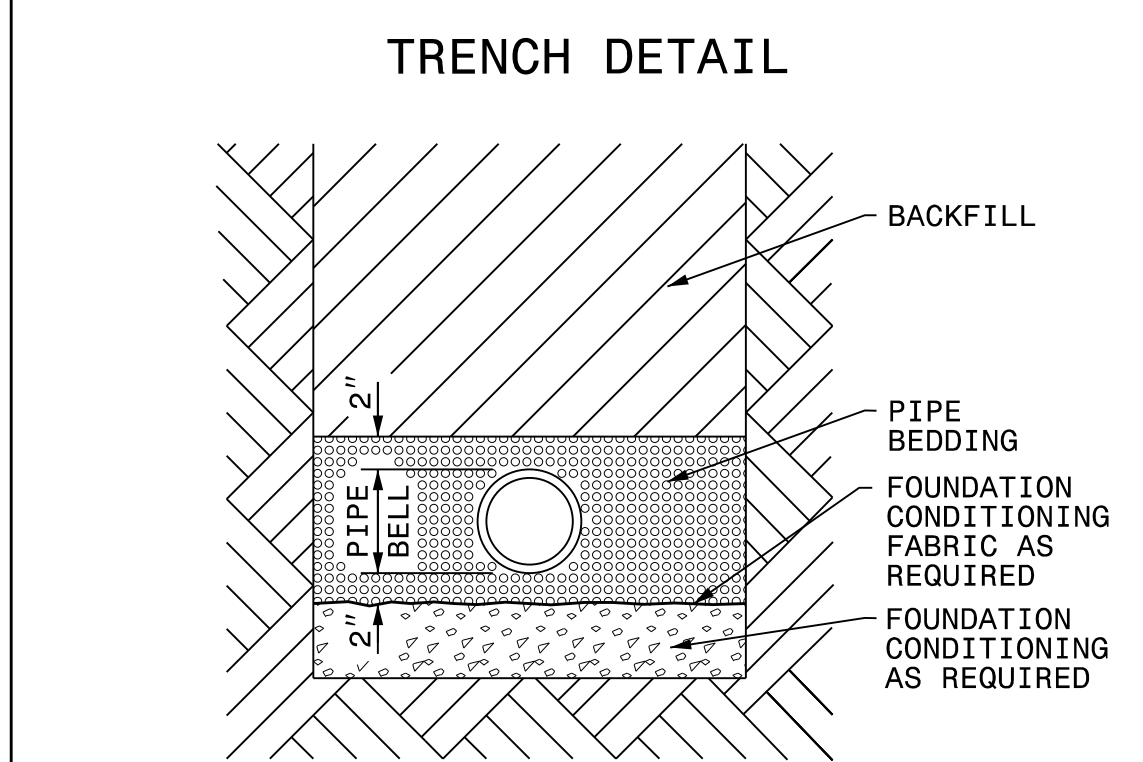


- NOTES:
1. IF SURGE VALVE MH IS WITHIN ROOM, THEN TOP SHALL BE FLUSH WITH GRADE.
 2. IF SURGE VALVE MH IS OUTSIDE THE ROOM, THEN TOP SHALL BE 18" ABOVE GRADE.

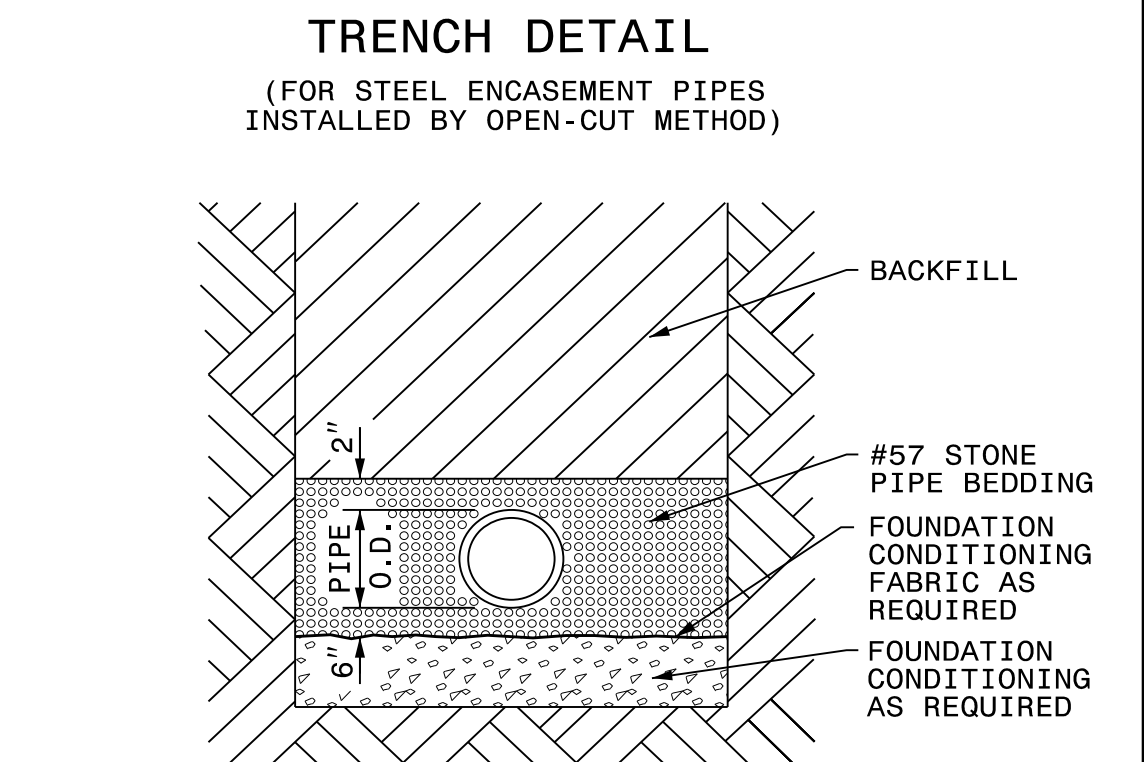
CITY OF GREENSBORO

SURGE VALVE DETAIL

STD. NO.	REV.
122	09/19 10/19



PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS VI (#57 STONE). TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-3B
DESIGNED BY: APL	
DRAWN BY: RDL	
CHECKED BY: APL	
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

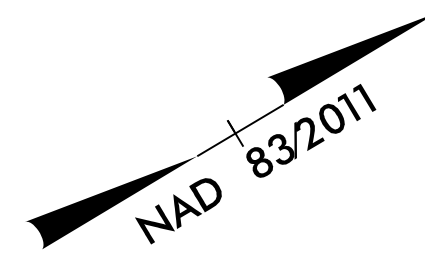
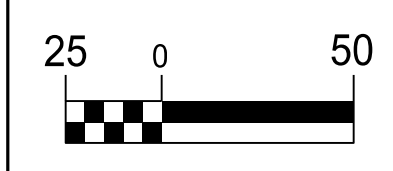
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

5/14/99

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WATER OR SEWER CONFLICTS ARE ANTICIPATED ON THIS SHEET.



PROJECT REFERENCE NO.	R-4707	SHEET NO.	UC-4
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISED:			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

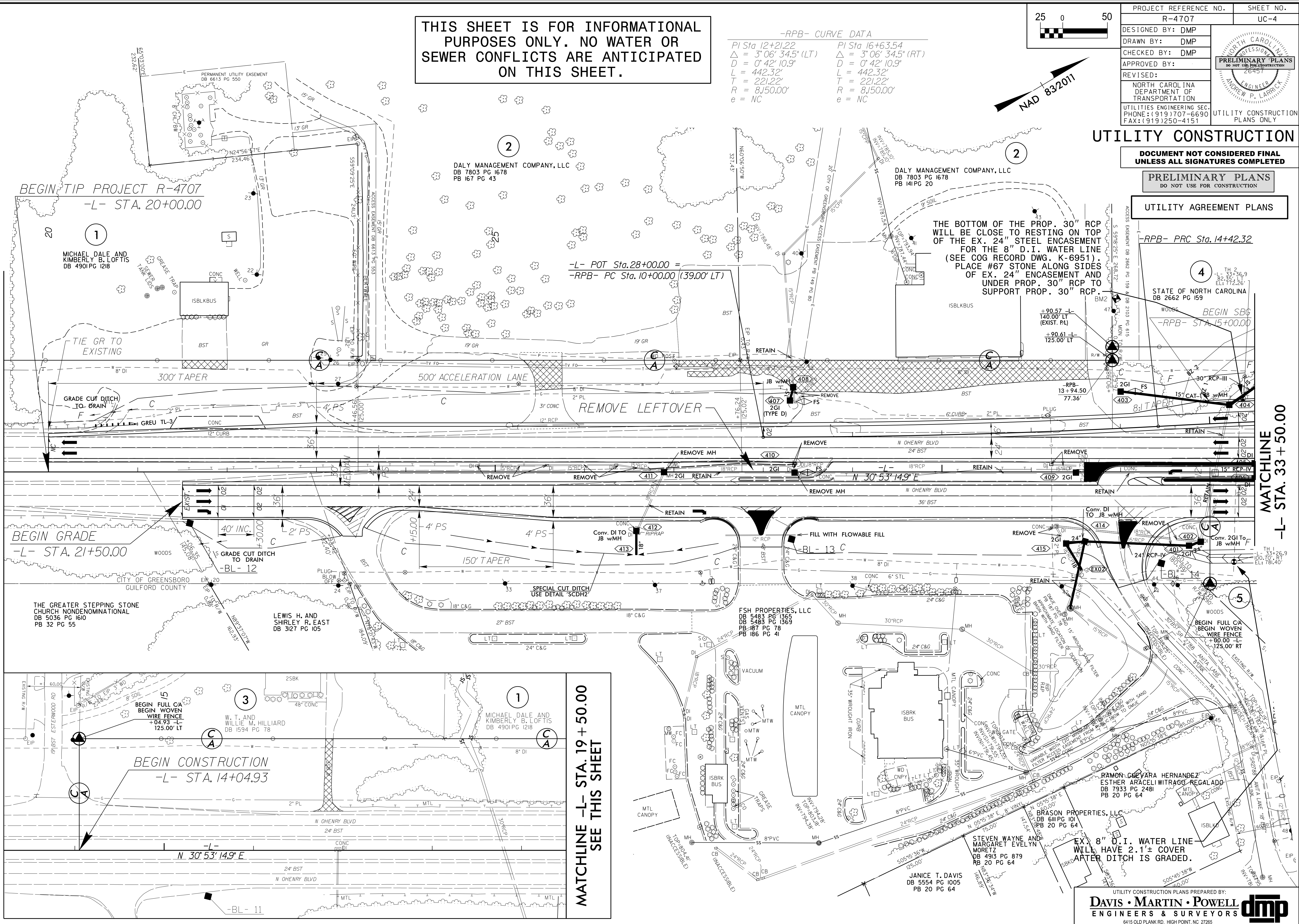
UTILITY AGREEMENT PLANS

-RPB- CURVE DATA

PI Sta 2+21.22	PI Sta 6+63.54
$\Delta = 3^{\circ} 06' 34.5''$ (LT)	$\Delta = 3^{\circ} 06' 34.5''$ (RT)
$D = 0^{\circ} 42' 10.9''$	$D = 0^{\circ} 42' 10.9''$
$L = 442.32'$	$L = 442.32'$
$T = 221.22'$	$T = 221.22'$
$R = 8,150.00'$	$R = 8,150.00'$
$e = NC$	$e = NC$

MATCHLINE -L- STA. 19 + 50.00 SEE INSET THIS SHEET

MATCHLINE -L- STA. 33 + 50.00



BEGIN TIP PROJECT R-4707
-L- STA. 20+00.00

MICHAEL DALE AND
KIMBERLY B. LOFTIS
DB 4901 PG 1218

DALY MANAGEMENT COMPANY, LLC
DB 7803 PG 1678
PB 167 PG 43

DALY MANAGEMENT COMPANY, LLC
DB 7803 PG 1678
PB 141 PG 20

-L- POT Sta. 28+00.00 =
-RPB- PC Sta. 10+00.00 (39.00' LT)

THE BOTTOM OF THE PROP. 30" RCP
WILL BE CLOSE TO RESTING ON TOP
OF THE EX. 24" STEEL ENCASEMENT
FOR THE 8" D.I. WATER LINE
(SEE COG RECORD DWG. K-6951).
PLACE #67 STONE ALONG SIDES
OF EX. 24" ENCASEMENT AND
UNDER PROP. 30" RCP TO
SUPPORT PROP. 30" RCP.

-RPB- PRC Sta. 14+42.32

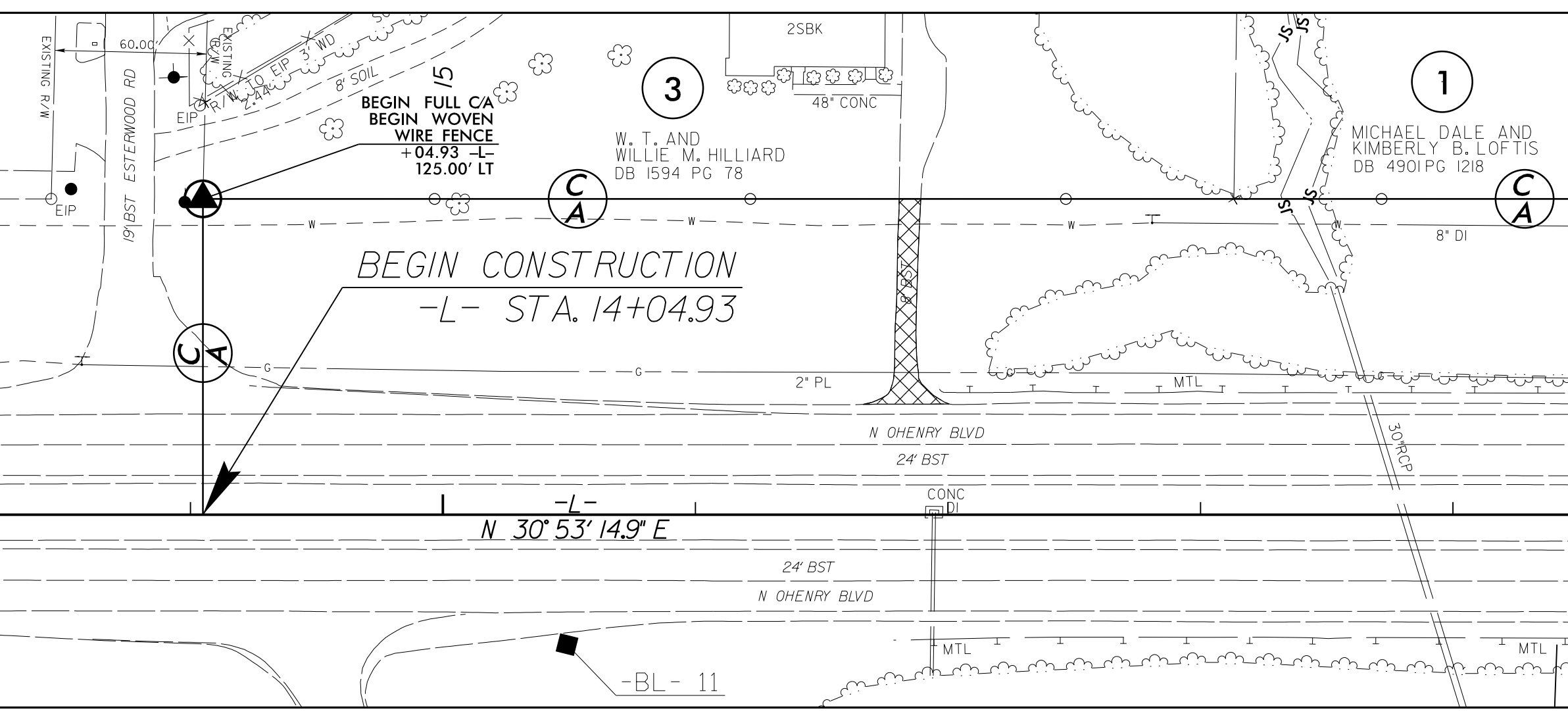
STATE OF NORTH CAROLINA
DB 2662 PG 159

BEGIN GRADE
-L- STA. 21+50.00

THE GREATER STEPPING STONE
CHURCH NONDENOMINATIONAL
DB 5036 PG 1610
PB 32 PG 55

LEWIS H. AND
SHIRLEY R. EAST
DB 3127 PG 105

FSH PROPERTIES, LLC
DB 5483 PG 1365
DB 5483 PG 1369
PB 187 PG 78
PB 186 PG 41



BEGIN CONSTRUCTION
-L- STA. 14+04.93

W. T. AND
WILLIE M. HILLIARD
DB 1594 PG 78

MICHAEL DALE AND
KIMBERLY B. LOFTIS
DB 4901 PG 1218

MATCHLINE -L- STA. 19 + 50.00
SEE THIS SHEET

EX. 8" D.I. WATER LINE
WILL HAVE 2.1'± COVER
AFTER DITCH IS GRADED.

REVISIONS

F:\188\20-FEB-2020 16:42-engineering\UC\Proj\R4707_ut_rdy\4_UC04_e-pb.dgn

PS100 NOTES:

- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
- ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
- MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER COG STD. NO. 205-B.

PROP. MH 8 (6' DIA.)
STA. 18+23.04, LINE PS100
-RPB- STA. 37+77.20
178.63 FT. LT

PROP. MH 9 (6' DIA.)
STA. 18+47.08, LINE PS100
-RPB- STA. 37+88.76
199.70 FT. LT

PROP. MH 7 (6' DIA.)
STA. 16+71.76, LINE PS100
-RPB- STA. 36+27.93
154.08 FT. LT

PROP. - 151 L.F.
36" SAN. GRAY. SEWER,
2 - CONC. ANTI-SEEP
PIPE COLLARS

PROP. - 53 L.F.
OF 36" SANITARY
GRAVITY SEWER

PROP. MH 6 (6' DIA.)
STA. 16+19.08, LINE PS100
-RPB- STA. 36+1.77
108.35 FT. LT

PROP. - 218 LF OF
36" SANITARY GRAY. SEWER,
170 LF 60" ENCASEMENT PIPE
(STEEL, MIN. W.T.=0.750")

PROP. MH 5 (6' DIA.)
STA. 14+01.26, LINE PS100
-RPB- STA. 36+69.51
98.67 FT. RT

PROP. - 294 LF OF
36" SANITARY GRAY. SEWER,
280 LF 60" ENCASEMENT PIPE
(STEEL, MIN. W.T.=0.750"),
280 LF - TUNNELING OF 60"

PROP. - 319 LF OF
36" SANITARY GRAY. SEWER,
200 LF 60" ENCASEMENT PIPE
(STEEL, MIN. W.T.=0.750")

PROP. MH 4 (6' DIA.)
STA. 7+88.67, LINE PS100
-RPC- STA. 22+60.83
239.73 FT. RT

PROP. - 139 L.F.
OF 36" SANITARY
GRAVITY SEWER

THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 725 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REEDY FORK ASSOCIATES LLC
DB 5001PG #195
REFER TO THE UNRECORDED "PRELIMINARY BOUNDARY SURVEY FOR STARMOUNT COMPANY" DATED MAY 29, 2000 AND REVISED JANUARY 2, 2014 AS PREPARED BY EVANS ENGINEERING, INC.

DELTA PHOENIX, INC.
DB 7309 PG 2280

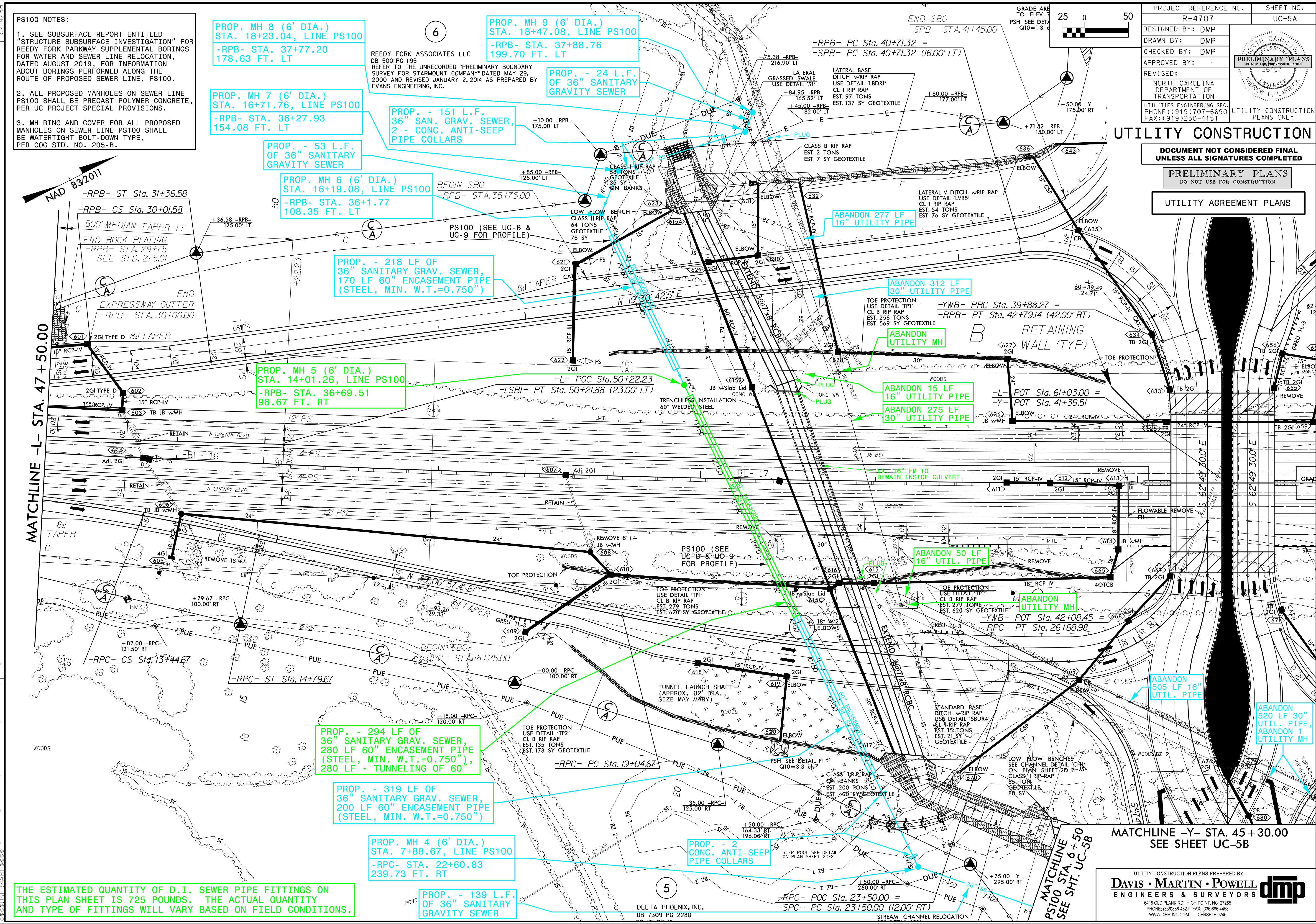
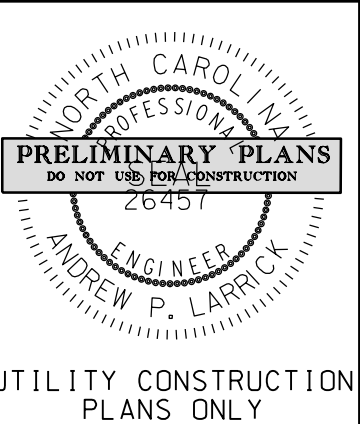
PROJECT REFERENCE NO.	R-4707	SHEET NO.	UC-5A
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS



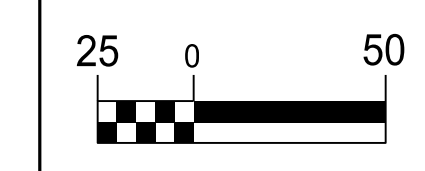
MATCHLINE -L- STA. 47 + 50.00

MATCHLINE -Y- STA. 45 + 30.00
SEE SHEET UC-5B

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-2045



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20-055-2020 16:57
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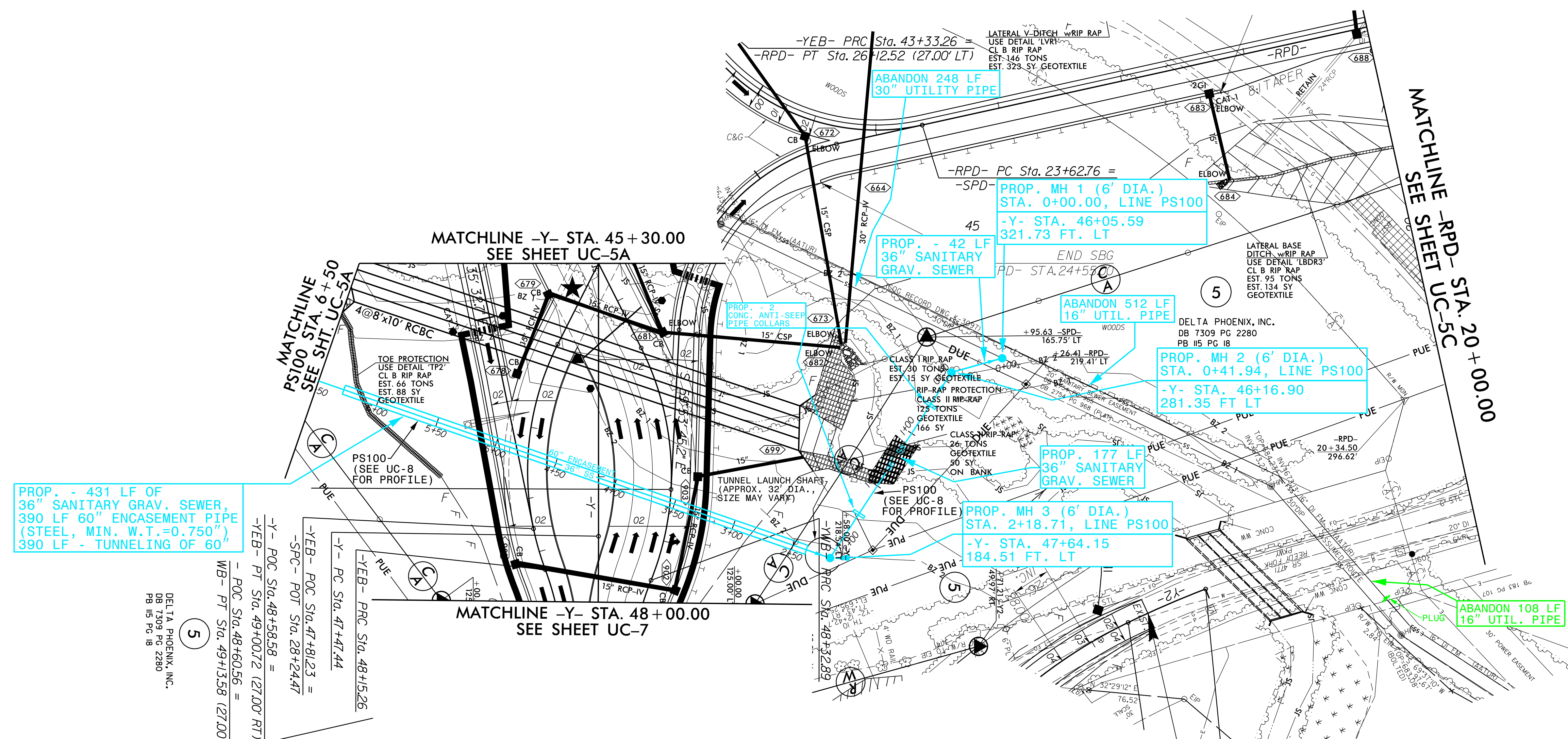
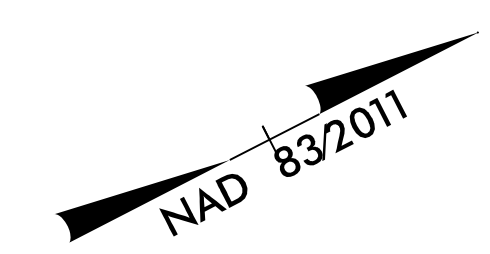
PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-5B
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
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PROP. - 431 LF OF 36" SANITARY GRAV. SEWER, 390 LF 60" ENCASEMENT PIPE (STEEL, MIN. W.T.=0.750") 390 LF - TUNNELING OF 60"

-YEB- POC Sta. 47+81.23 =
-SPC- POT Sta. 28+24.47
-Y- PC Sta. 48+58.58 =
-YEB- PT Sta. 49+00.72 (27.00' RT)
-POC Sta. 48+60.56 =
WB- PT Sta. 49+13.58 (27.00'
5


PS100 NOTES:

1. SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
2. ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
3. MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER COG STD. NO. 205-B.

THE ESTIMATED QUANTITY OF D.I. SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 145 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REVISIONS

5/14/99
 20-055-2020-1704
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 DELTA PHOENIX, INC.
 DB 7309 PG 2280
 PB 115 PG 18

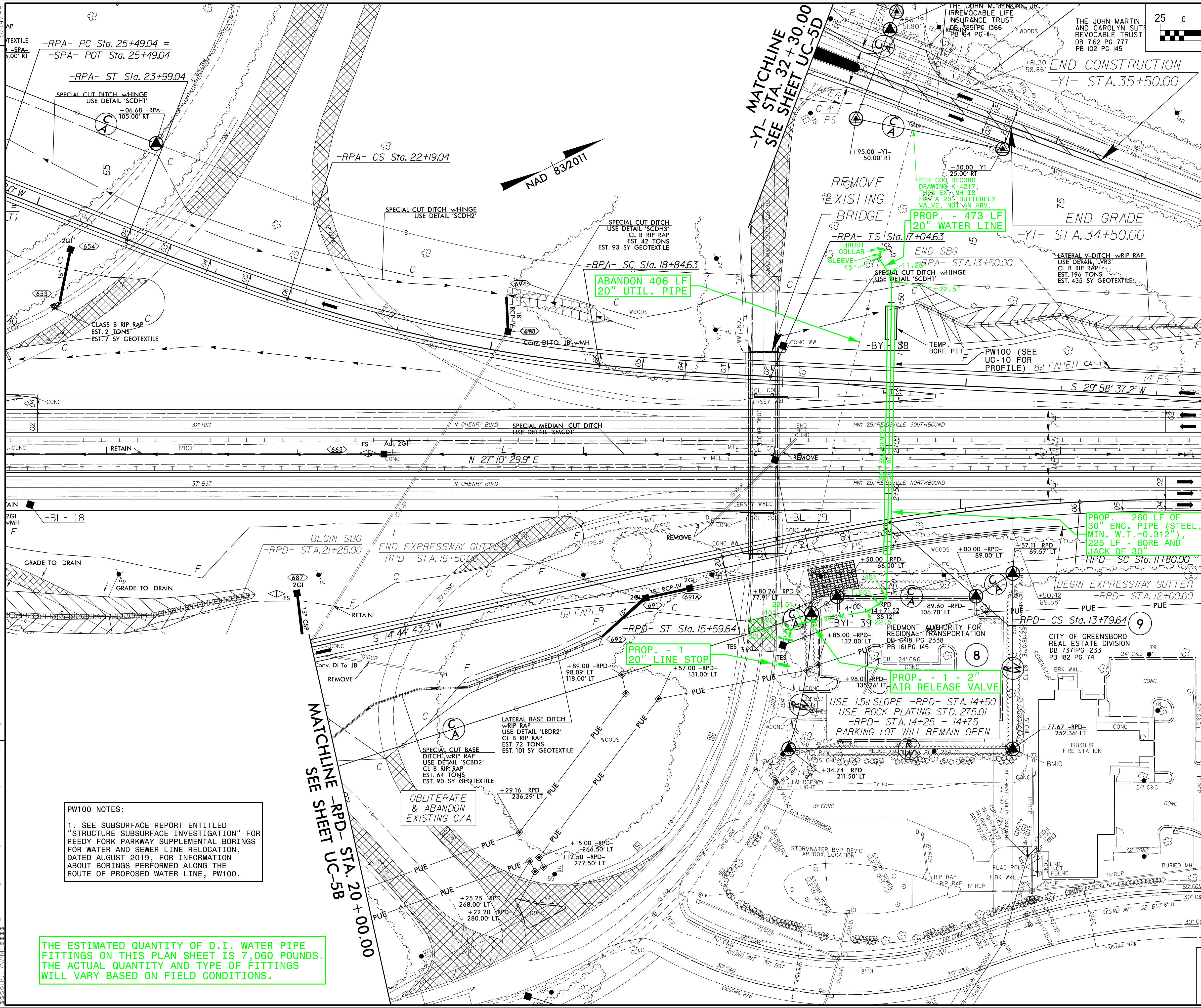
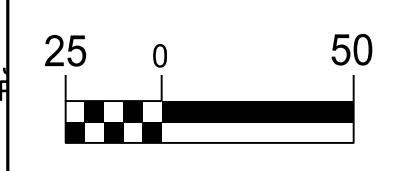
PROJECT REFERENCE NO.	R-4707	SHEET NO.	UC-5C
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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UNLESS ALL SIGNATURES COMPLETED**

**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

UTILITY AGREEMENT PLANS



PW100 NOTES:

- SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED WATER LINE, PW100.

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 7,060 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

MATCHLINE -L- STA. 76 + 50.00

MATCHLINE SEE SHEET UC-5B

MATCHLINE -Y1- STA. 32 + 30.00
SEE SHEET UC-5D

END CONSTRUCTION
-Y1- STA. 35+50.00

END GRADE
-Y1- STA. 34+50.00

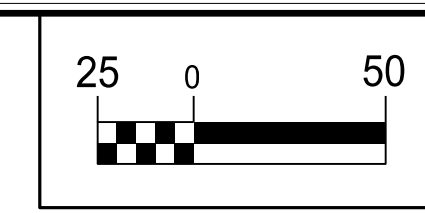
BEGIN EXPRESSWAY GUTTER
-RPD- STA. 12+00.00

BEGIN SBG
-RPD- STA. 21+25.00

END EXPRESSWAY GUTTER
-RPD- STA. 16+50.00

REVISIONS

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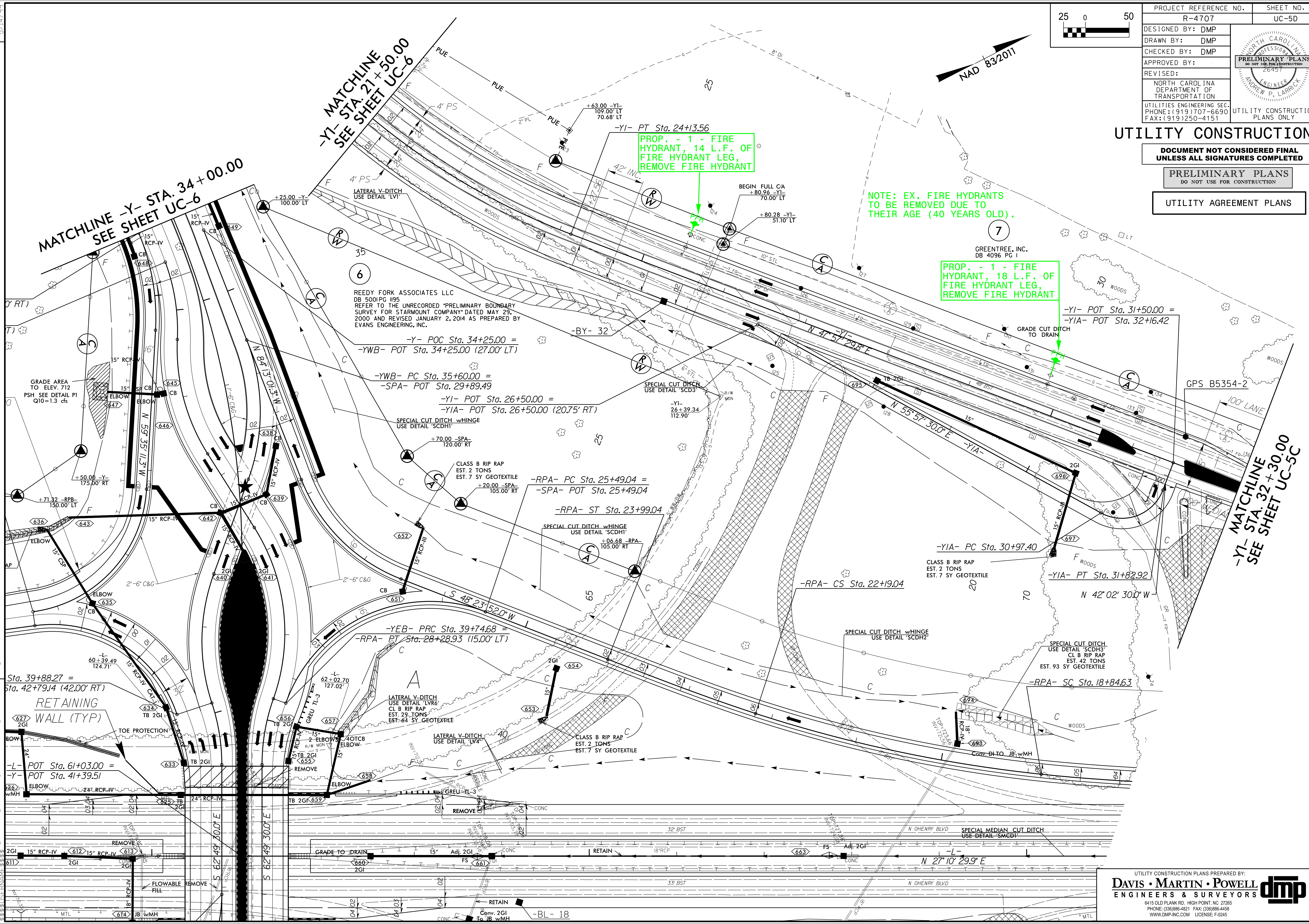
PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-5D
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS



PROP. - 1 - FIRE HYDRANT, 14 L.F. OF FIRE HYDRANT LEG, REMOVE FIRE HYDRANT

NOTE: EX. FIRE HYDRANTS TO BE REMOVED DUE TO THEIR AGE (40 YEARS OLD).

PROP. - 1 - FIRE HYDRANT, 18 L.F. OF FIRE HYDRANT LEG, REMOVE FIRE HYDRANT

MATCHLINE -Y- STA. 34+00.00
SEE SHEET UC-6

MATCHLINE -Y1- STA. 21+50.00
SEE SHEET UC-6

MATCHLINE -Y1- STA. 32+30.00
SEE SHEET UC-5C

REEDY FORK ASSOCIATES LLC
DB 5001PG 1195
REFER TO THE UNRECORDED 'PRELIMINARY BOUNDARY SURVEY FOR STARMOUNT COMPANY' DATED MAY 29, 2000 AND REVISED JANUARY 2, 2014 AS PREPARED BY EVANS ENGINEERING, INC.

RETAINING WALL (TYP)
TOE PROTECTION

5/14/99
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BEGIN CONSTRUCTION
-DR2B- STA.10+65.00
NOTE: SAWCUT EXIST.
PAVEMENT AND TIE
PROPOSED PAVEMENT
TO EXIST. ELEVATION

SEE SHEET UC-3 AND UC PROJECT
SPECIAL PROVISIONS FOR NOTES
REGARDING SHUT-DOWN AND TIE-IN
OF 12" PRIVATE WATER LINE FOR
PROCTOR & GAMBLE.

THE ESTIMATED QUANTITY OF D.I.
WATER PIPE FITTINGS ON THIS PLAN
SHEET IS 16,400 POUNDS. THE ACTUAL
QUANTITY AND TYPE OF FITTINGS WILL
VARY BASED ON FIELD CONDITIONS.

SECURE FACILITY
DO NOT DISTURB
BEYOND PROPOSED
R/W & EASEMENTS

BEGIN CONSTRUCTION
-Y- STA.21+00.00

TIE FENCE
TO EXISTING

-Y- POT Sta. 20+00.00

SUMMIT DISTRIBUTION, LLC
DB 7828 PG 895
PB 88 PG 6

PROP. - 1 -
20" LINE STOP

PROP. - 1 - FIRE
HYDRANT, 20 L.F. OF
FIRE HYDRANT LEG,
REMOVE FIRE HYDRANT
NOTE: EX. FIRE HYDRANT
TO BE REMOVED DUE TO
ITS AGE (40 YEARS OLD).

PROP. MH #	SEWER LINE PS200 STATION	DIA.	ROADWAY STATION AND OFFSET
10	0+00.00	5'	-Y- STA. 29+97.29, 95.65 FT. RT.
11	0+21.21	4'	-Y- STA. 29+79.39, 84.80 FT. RT.
12	2+43.22	4'	-Y- STA. 29+22.80, 129.94 FT. LT.
13	4+48.70	5'	-Y1- STA. 16+69.91, 84.41 FT. LT.
14	4+69.92	5'	-Y1- STA. 16+86.81, 99.46 FT. LT.

BEGIN CONSTRUCTION
-DR2A- STA.11+90.00
NOTE: PROP. MH'S 10 & 14 SHALL BE
5' DIA. DOGHOUSE STYLE MH'S FOR
TYING INTO EXISTING SEWER LINE.

PROP. - 1 - FIRE HYD.,
1 - 6" VALVE, 21 LF OF
FIRE HYD. LEG

PROP. - 149 LF
12" WATER LINE

ABANDON 338 LF
12" UTIL. PIPE

ABANDON 334 LF
30" UTIL. PIPE

ABANDON 216 LF
8" UTIL. PIPE

ABANDON 216 LF
8" UTIL. PIPE

ABANDON 935 LF
20" UTIL. PIPE

ABANDON 56 LF
12" UTIL. PIPE

PROP. - 14 LF
20" WATER LINE,
55 LF 30"
WATER LINE
(PW500, SEE UC-11
FOR PROFILE)

PROP. - 146 LF
8" WATER LINE,
3 - 8" VALVES,
1 - 8" PRESSURE
RELIEF VALVE IN
7' DIA. MH
(SEE UC-3B
FOR DETAIL)

BEGIN CONSTRUCTION
-DRI- STA.10+15.00

-Y1- PRC Sta. 15+52.09
USE DETAIL 'SCD3'

PROP. - 2
20" VALVES,
36 LF 20"
WATER LINE

PROP. MH 13

PROP. MH 12

PROP. MH 11

PROP. MH 10

PROP. - 21 LF
OF 8" SAN. GRAV. SEWER

PROP. - 68 LF
8" SANITARY
GRAV. SEWER,
140 L.F. OF 18" ENC. PIPE
(STEEL, MIN. W.T. = 0.250")

PROP. - 154 L.F. OF
8" SANITARY GRAV. SEWER,
140 L.F. OF 18" ENC. PIPE
(STEEL, MIN. W.T. = 0.250")

PROP. - 21 LF
OF 8" SAN.
GRAVITY SEWER

PROP. - 1 - FIRE HYD.,
1 - 6" VALVE, 24 L.F.
OF FIRE HYDRANT LEG,
REMOVE FIRE HYDRANT
NOTE: EX. FIRE HYDRANT
TO BE REMOVED DUE TO
ITS AGE (40 YEARS OLD).

PROP. - 1 - FIRE HYD.,
1 - 6" VALVE, 21 LF OF
FIRE HYD. LEG

PROP. - 1 - 12" VALVE,
2 - 20" VALVES,
50 LF OF 12"
WATER LINE

PROP. - 1,139 LF
20" WATER LINE

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 205 L.F. OF
8" SANITARY GRAV. SEWER,
140 L.F. OF 18" ENC. PIPE
(STEEL, MIN. W.T. = 0.250")

PROP. - 1 - FIRE HYD.,
1 - 6" VALVE, 24 L.F.
OF FIRE HYDRANT LEG,
REMOVE FIRE HYDRANT
NOTE: EX. FIRE HYDRANT
TO BE REMOVED DUE TO
ITS AGE (40 YEARS OLD).

PROP. - 21 L.F. OF
8" SAN. GRAV. SEWER

PROP. - 1 - 12" VALVE,
2 - 20" VALVES,
50 LF OF 12"
WATER LINE

PROP. - 1,139 LF
20" WATER LINE

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

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PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP

PROP. - 1 - 20" LINE STOP



NAD 832011

PROJECT REFERENCE NO. R-4707 SHEET NO. UC-6

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

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

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

DO NOT DISTURB
WATER VALVE VAULT

SEE -Y-
SHEET UC-5
D MATCHLINE
STA. 21+50.00

MATCHLINE -Y- STA. 34+00.00
SEE SHEET UC-5D

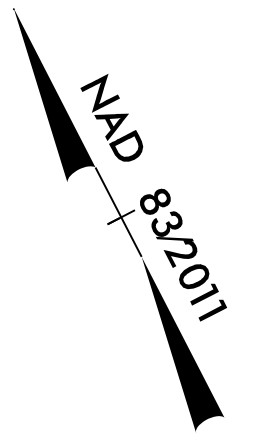
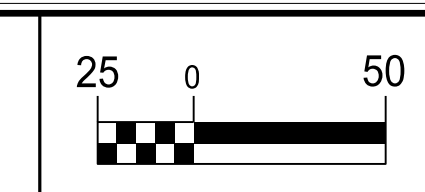
REDDY FORK ASSOCIATES LLC
DB 5001 PG 195
REFER TO THE UNRECORDED "PRELIMINARY BOUNDARY
SURVEY FOR STARMOUNT COMPANY" DATED MAY 29,
2000 AND REVISED JANUARY 2, 2014 AS PREPARED BY
EVANS ENGINEERING, INC.

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-2445

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PROJECT REFERENCE NO.	R-4707	SHEET NO.	UC-7
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISED:			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY		

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

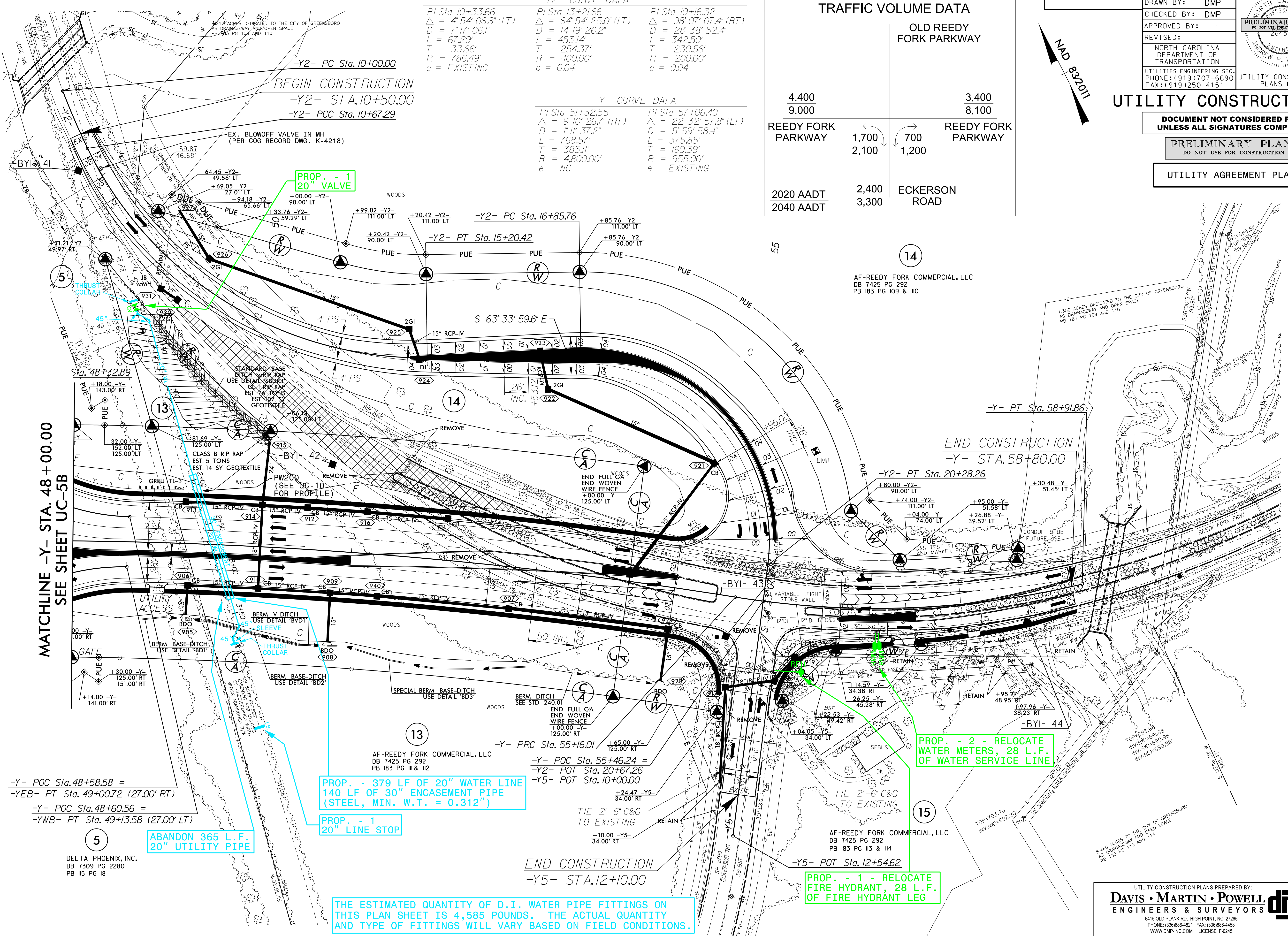
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OLD REEDY FORK PARKWAY		REEDY FORK PARKWAY	
4,400	3,400		
9,000	8,100		
REEDY FORK PARKWAY	1,700	700	REEDY FORK PARKWAY
	2,100	1,200	
2020 AADT	2,400	ECKERSON ROAD	
2040 AADT	3,300		

-Y2- CURVE DATA

PI Sta 10+33.66 Δ = 4° 54' 06.8" (LT) D = 7° 17' 06.1" L = 67.29' T = 33.66' R = 786.49' e = EXISTING	PI Sta 13+21.66 Δ = 64° 54' 25.0" (LT) D = 1° 11' 37.2" L = 453.14' T = 254.37' R = 400.00' e = 0.04	PI Sta 19+16.32 Δ = 98° 07' 07.4" (RT) D = 28° 38' 52.4" L = 342.50' T = 230.56' R = 200.00' e = 0.04
-------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------

-Y- CURVE DATA

PI Sta 51+32.55 Δ = 9° 10' 26.7" (RT) D = 1° 11' 37.2" L = 768.57' T = 385.11' R = 4,800.00' e = NC	PI Sta 57+06.40 Δ = 22° 32' 57.8" (LT) D = 5° 59' 58.4" L = 375.85' T = 190.39' R = 955.00' e = EXISTING
-----------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------



MATCHLINE -Y- STA. 48+00.00
SEE SHEET UC-5B

-Y- POC Sta. 48+58.58 =
-YEB- PT Sta. 49+00.72 (27.00' RT)
-Y- POC Sta. 48+60.56 =
-YWB- PT Sta. 49+13.58 (27.00' LT)

5
DELTA PHOENIX, INC.
DB 7309 PG 2280
PB 115 PG 18

PROP. - 379 LF OF 20" WATER LINE
140 LF OF 30" ENCASEMENT PIPE
(STEEL, MIN. W.T. = 0.312")

PROP. - 1 20" LINE STOP

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4,585 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

END CONSTRUCTION
-Y5- STA. 12+10.00

PROP. - 2 - RELOCATE WATER METERS, 28 L.F. OF WATER SERVICE LINE

PROP. - 1 - RELOCATE FIRE HYDRANT, 28 L.F. OF FIRE HYDRANT LEG

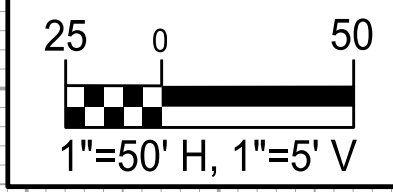
REVISIONS

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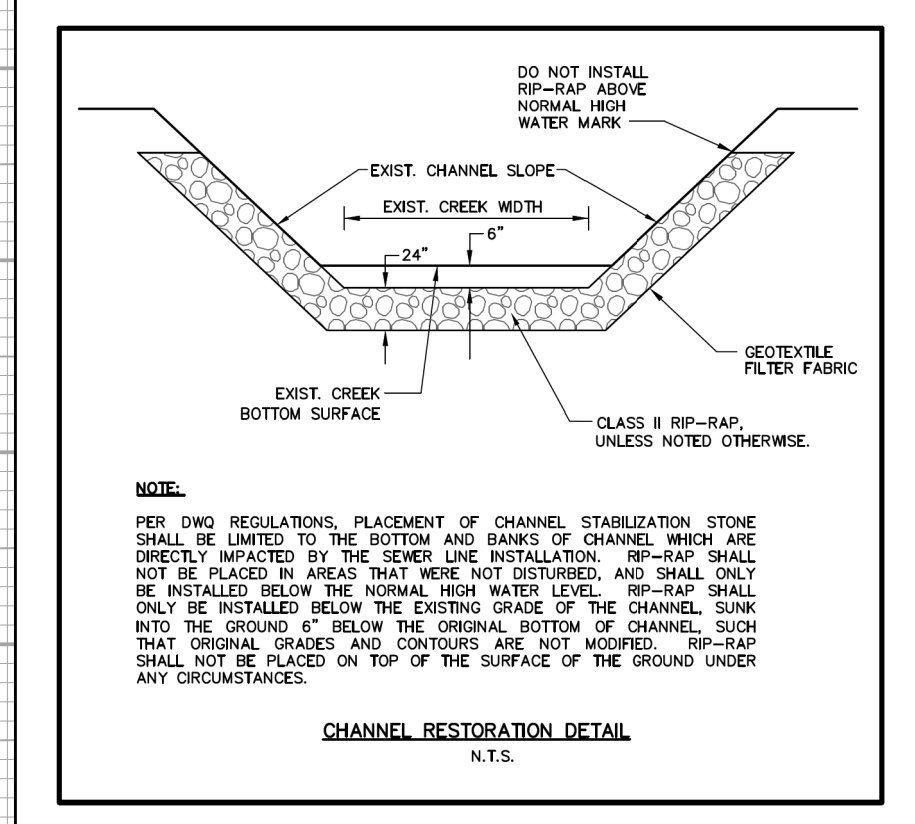
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PS100 NOTES:

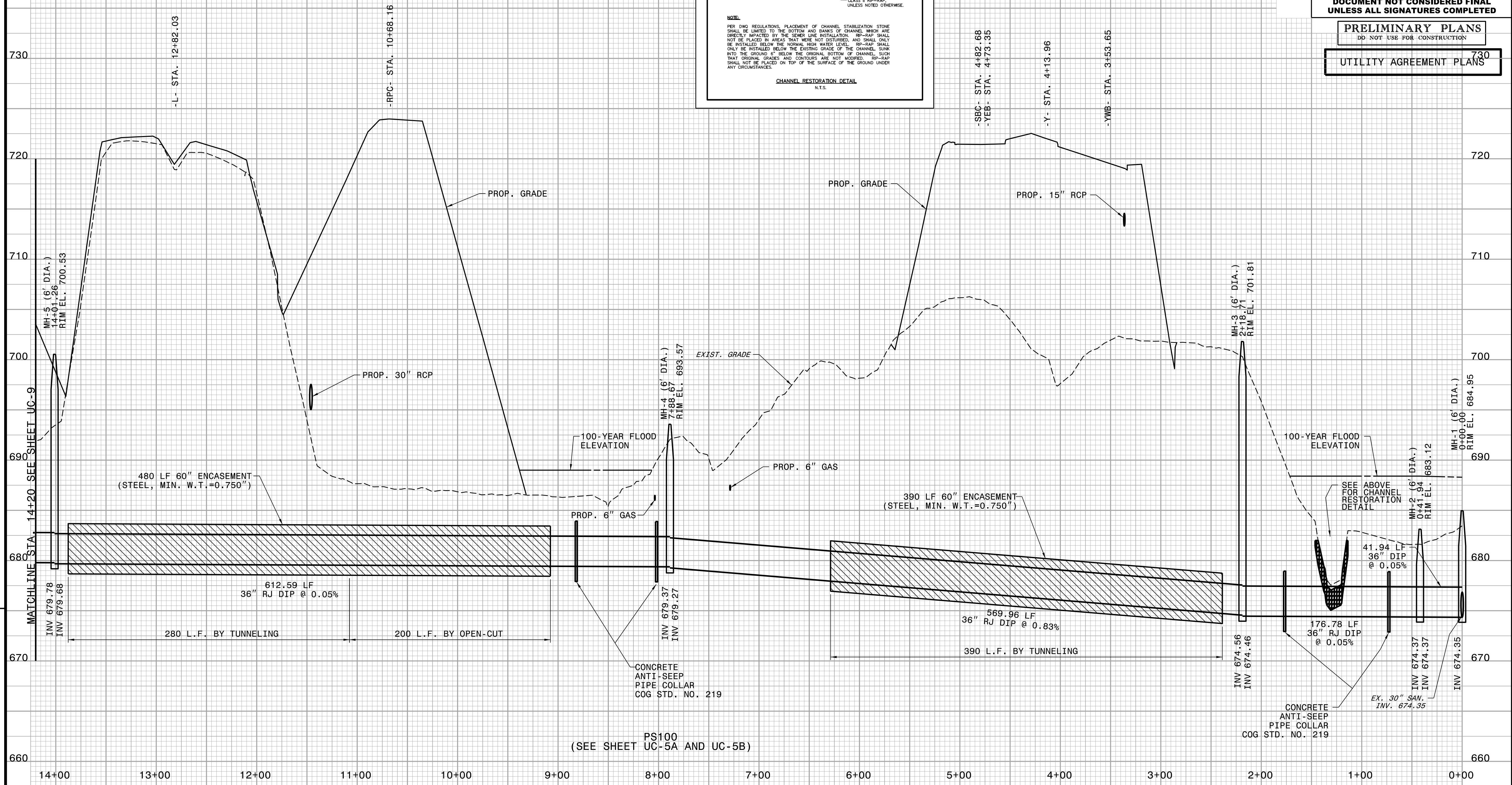
1. SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019, FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED SEWER LINE, PS100.
2. ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE PRECAST POLYMER CONCRETE, PER UC PROJECT SPECIAL PROVISIONS.
3. MH RING AND COVER FOR ALL PROPOSED MANHOLES ON SEWER LINE PS100 SHALL BE WATERTIGHT BOLT-DOWN TYPE, PER COG STD. NO. 205-B.



PROJECT REFERENCE NO. R-4707	SHEET NO. UC-8
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	
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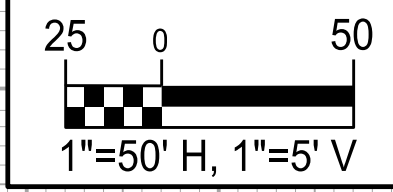


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PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-10
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
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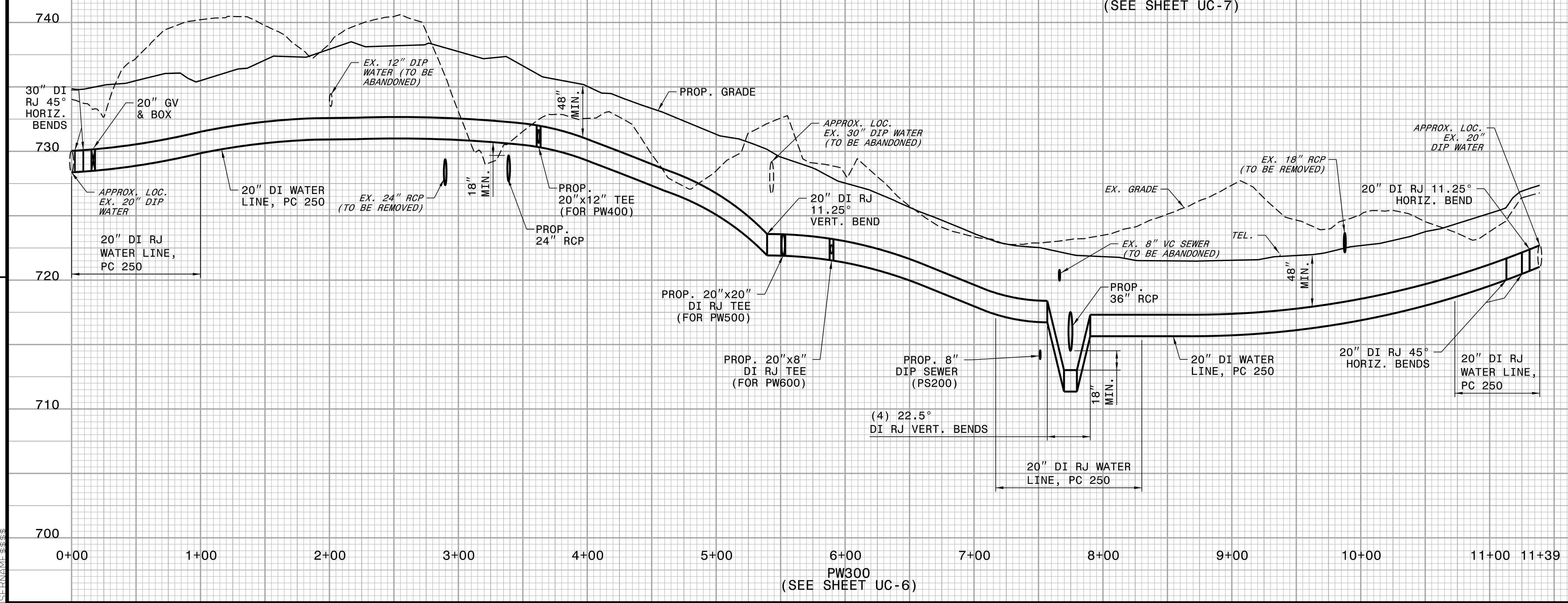
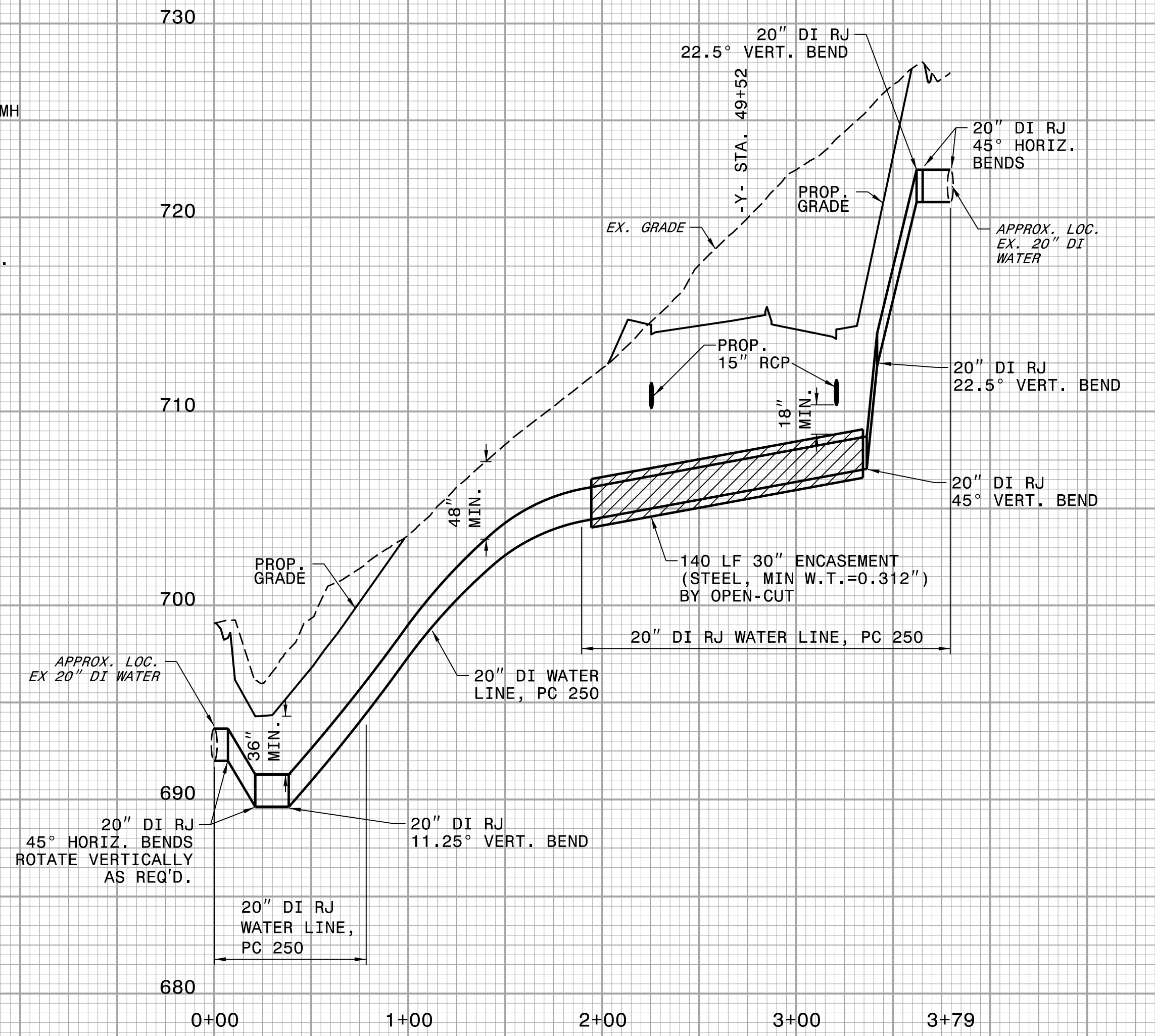
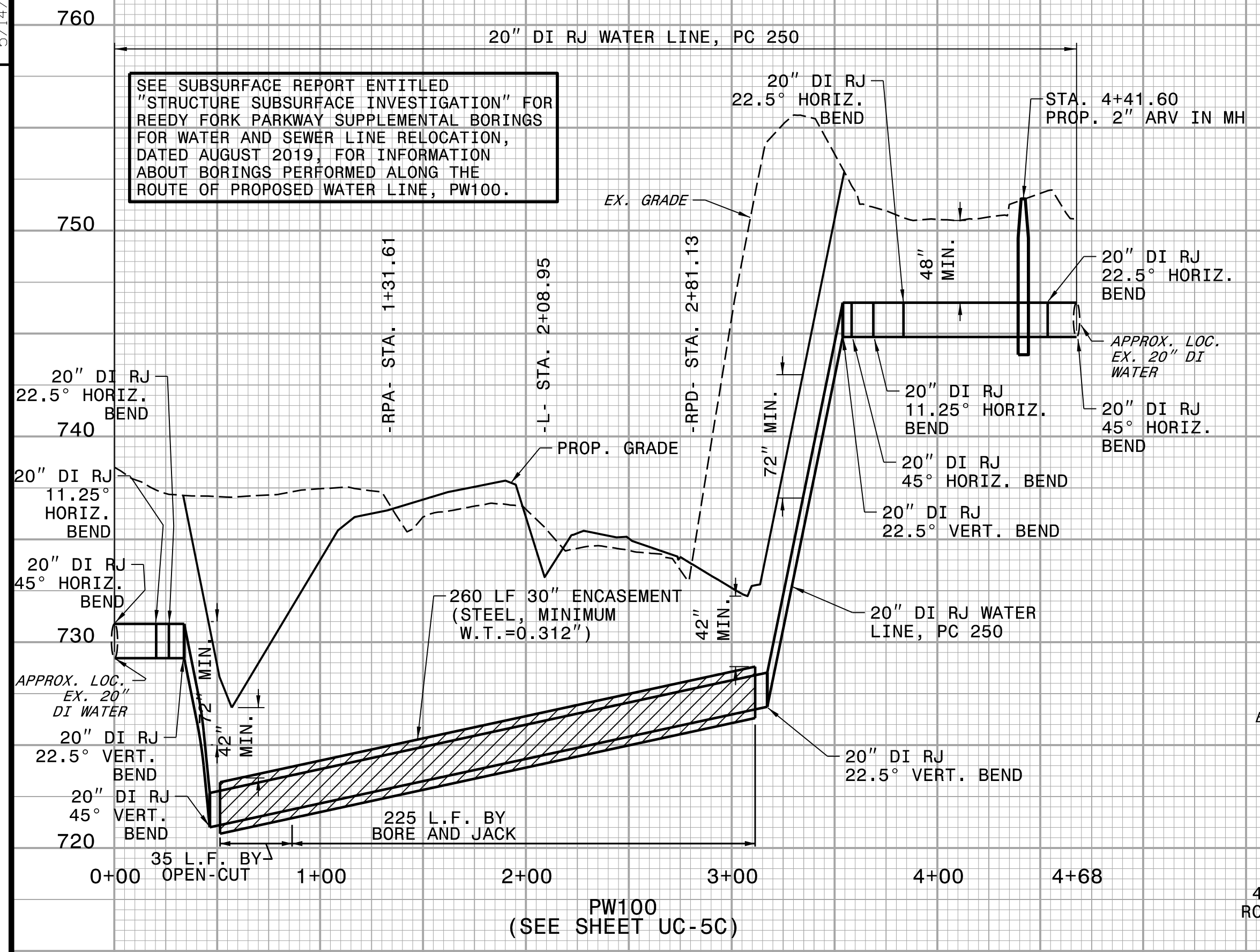
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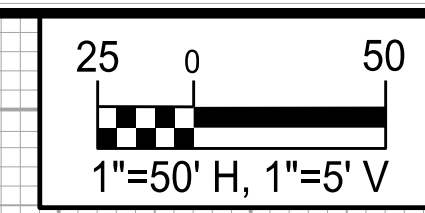
SEE SUBSURFACE REPORT ENTITLED "STRUCTURE SUBSURFACE INVESTIGATION" FOR REEDY FORK PARKWAY SUPPLEMENTAL BORINGS FOR WATER AND SEWER LINE RELOCATION, DATED AUGUST 2019. FOR INFORMATION ABOUT BORINGS PERFORMED ALONG THE ROUTE OF PROPOSED WATER LINE, PW100.



REVISIONS

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5/14/99



PROJECT REFERENCE NO.	SHEET NO.
R-4707	UC-11
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
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