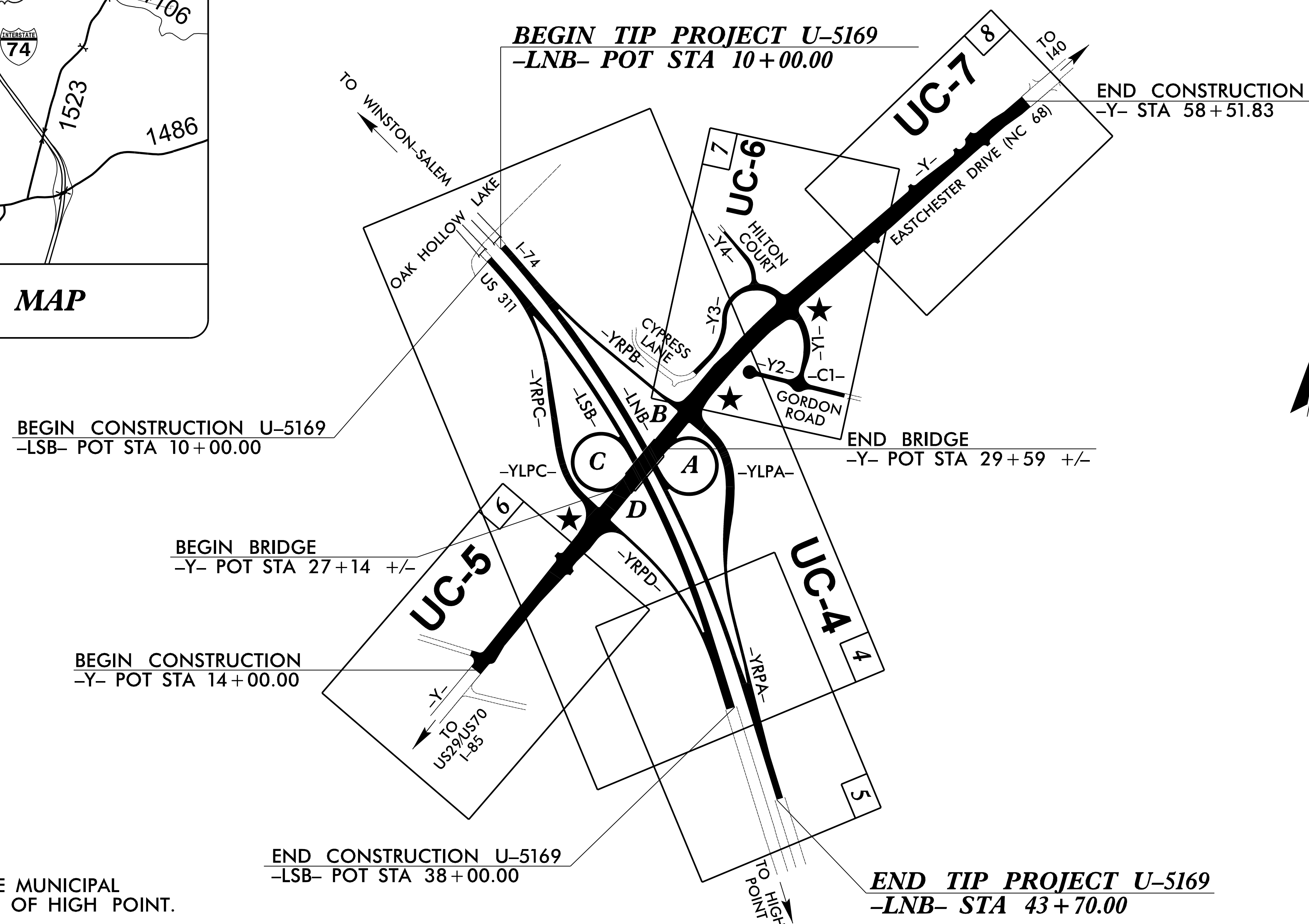
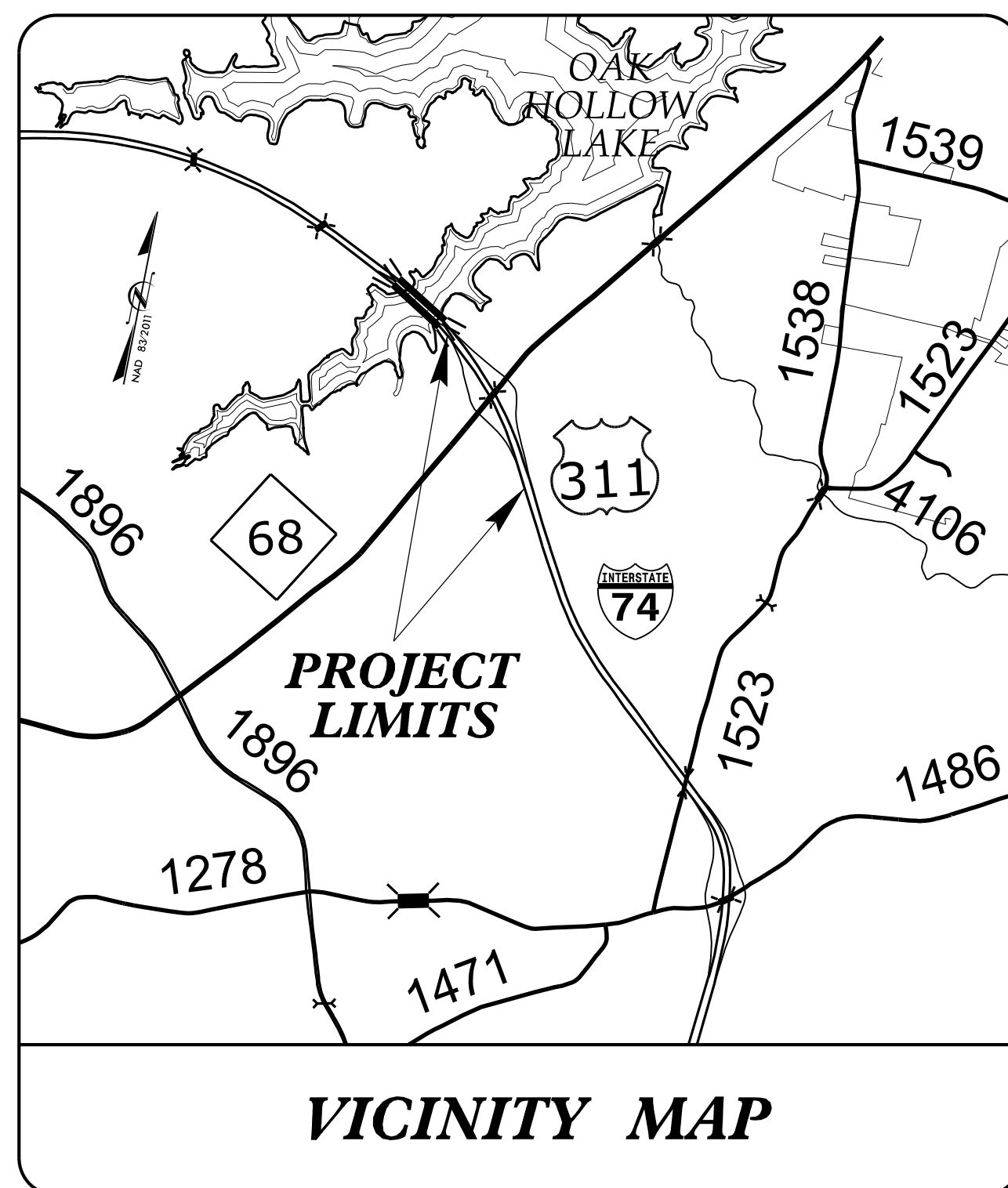


STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS

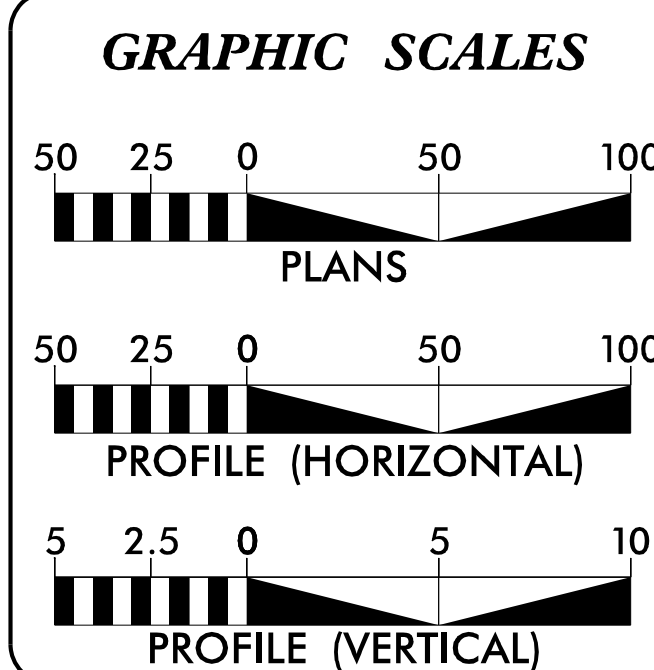
GUILFORD COUNTY

LOCATION: I-74/US311 AND NC 68 (EASTCHESTER DRIVE) INTERCHANGE IMPROVEMENTS
TYPE OF WORK: UTILITY CONSTRUCTION



NOTES:

1. THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF HIGH POINT.



INDEX OF SHEETS

<u>SHEET NO.:</u>	<u>DESCRIPTION:</u>
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4 THRU UC-7	UTILITY CONSTRUCTION SHEETS
UC-8 THRU UC-10	PROFILE SHEETS

**WATER AND SEWER
OWNERS ON PROJECT**

- (A) WATER - CITY OF HIGH POINT
(B) SANITARY SEWER - CITY OF HIGH POINT

PREPARED IN THE OFFICE OF

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS **dmp**

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

<u>Andy Larrick, P.E.</u>	CONSULTANT CONTACT #1
<u>Randy McNeill, P.E.</u>	CONSULTANT CONTACT #2
<u>Steve McKee, P.E.</u>	CONSULTANT CONTACT #3

SEAL



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

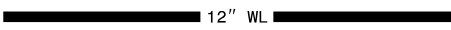

























<u>Ali Kouchechi, P.E.</u>	UTILITIES REGIONAL ENGINEER
<u>Bernie Bumgarner</u>	UTILITIES ENGINEER
<u> </u>	UTILITIES AREA COORDINATOR
Kyle Pleasant	UTILITIES COORDINATOR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

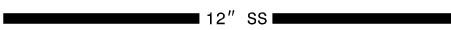
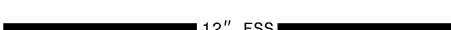


PROJECT REFERENCE NO.	SHEET NO.
U-5169	UC-2

UTILITIES PLAN SHEET SYMBOLS





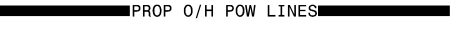



PROPOSED WATER SYMBOLS








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

PROPOSED SEWER SYMBOLS

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

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS






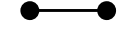














Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	




















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

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	

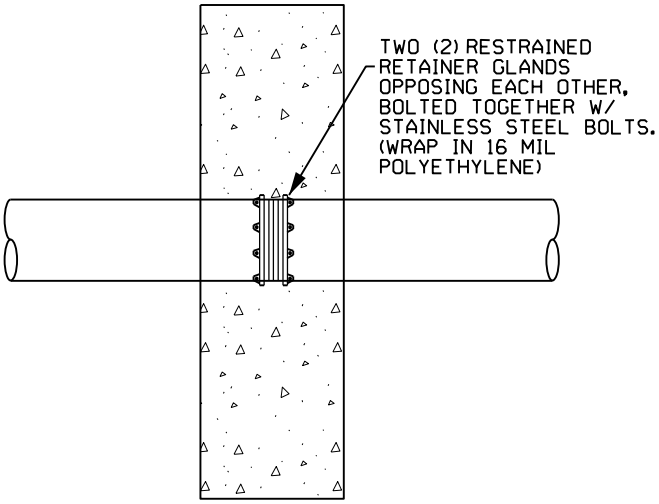
*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground 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)

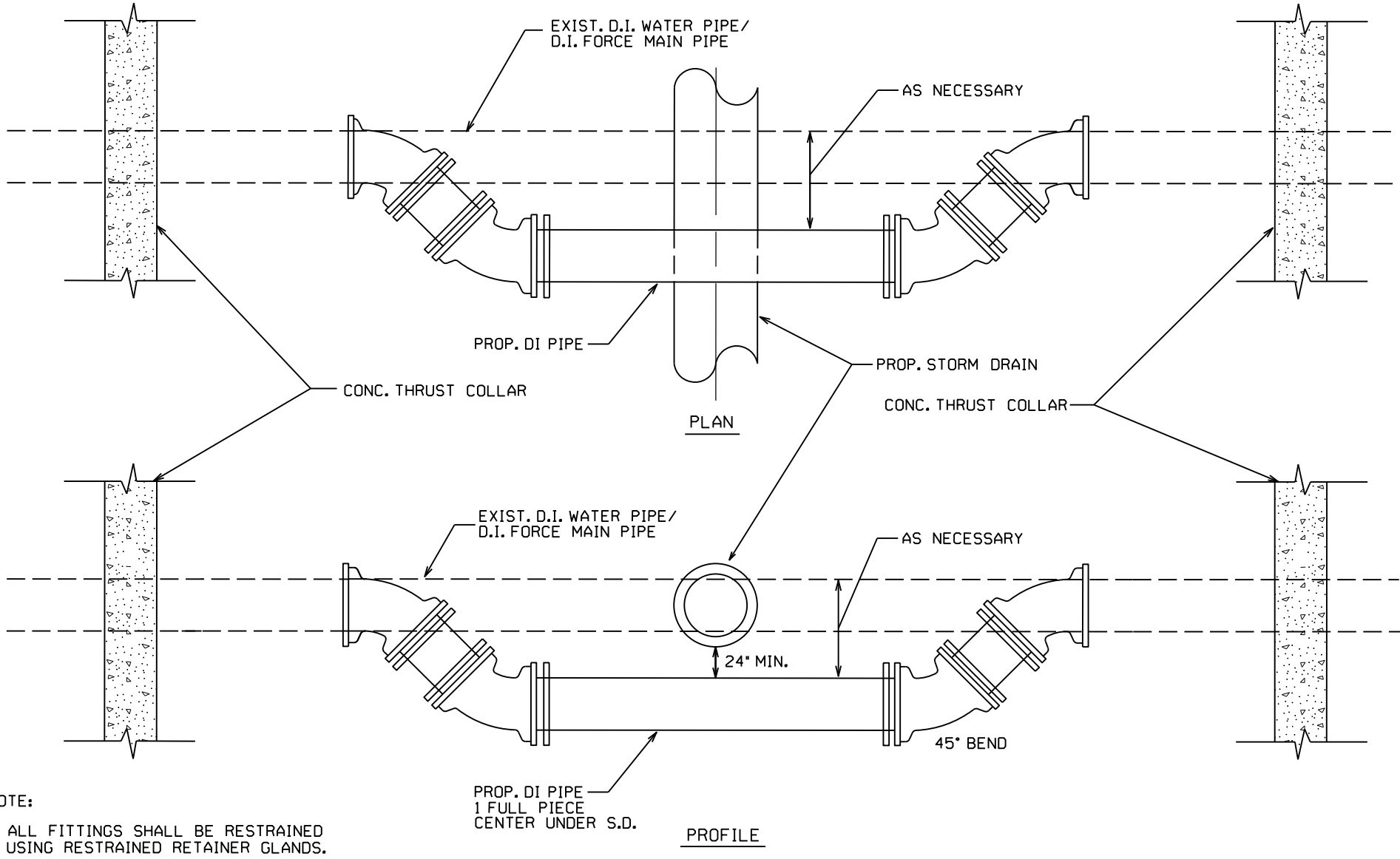
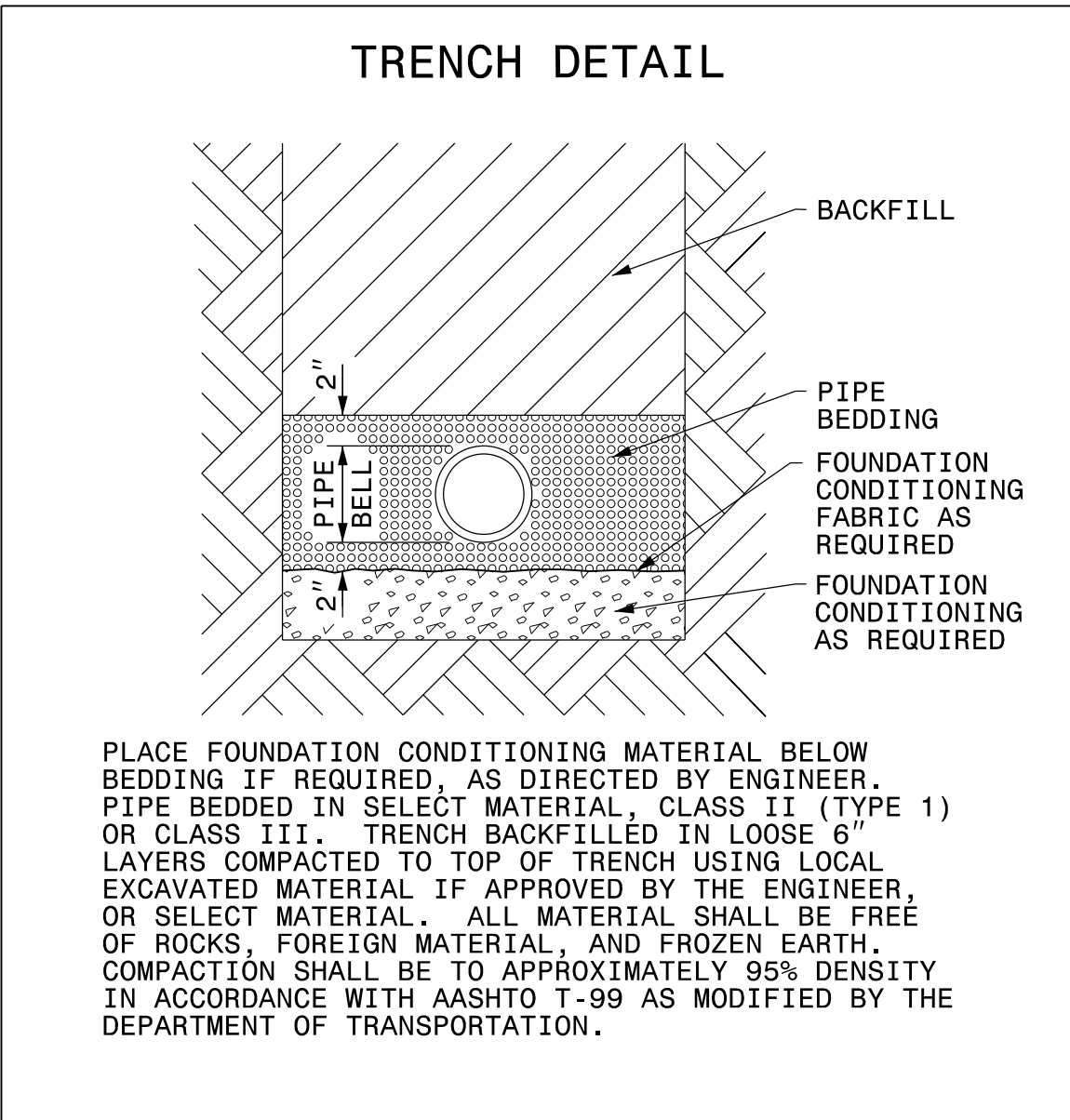
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PROJECT TYPICAL DETAILS

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		



THRUST COLLAR ANCHOR



NOTE:
1. ALL FITTINGS SHALL BE RESTRAINED USING RESTRAINED RETAINER GLANDS.

•NTS

RELOCATION OF D.I. WATER PIPE OR D.I. FORCE MAIN PIPE AT PROPOSED STORM DRAINAGE AS SHOWN ON PLANS

PROJECT REFERENCE NO.	SHEET NO.
U-5169	UC-3A
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

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS



FROM -LNB- STA. 10+40 TO STA. 10+65 LT
FROM -YRPC- STA. 21+00 TO STA. 24+00 RT

PI Sta 9+43.37
 $\Delta = 84^{\circ} 22' 41.7''$ (LT)
 $D = 57^{\circ} 17' 44.8''$
 $L = 147.27'$
 $T = 90.64'$
 $R = 100.00'$
 RO = SEE PLANS
 SE = SEE PLANS

S Sta 12+07.82	PI Sta 14+61.48
S = 0° 57' 39.9"	$\Delta = 8' 04'' 54.4''$ (LT.)
S = 104.00'	D = 1° 50' 53.7"
S = 69.33'	L = 437.27'
T = 34.67'	T = 219.00'
	R = 3,100.00'
	RO = SEE PLANS
	SE = SEE PLANS

PROP. - 440 LF OF
18" ENCASEMENT PIPE
(STEEL, MIN. W.T.=0.250"),
440 LF BORE AND JACK OF 18"

CONTRACTOR SHALL INSTALL
COLUMNS FOR PROPOSED
NOISE WALL TO AVOID
CONFLICTS WITH EXISTING
30" SANITARY SEWER LINE.

•WATERFRONT HOMEOWNERS ASSOCIATION INC
DB 3425 PG 1197
PB 75 PG 142
PB 77 PG 149

SANDRA ANNETTE SHAW
DB 4342 PG 1811
PB 75 PG 142
PB 77 PG 149

SARAH ELLEN HESTER
DB 6516 PG 2756
PB 75 PG 142
PB 77 PG 149

ABANDON 2
UTILITY MH'S

PROP. MH 3 (4 DIA.)	(4 DIA., DOUGHOUSE STYLE)
STA. 8+19.09, LINE PS100	STA. 13+39.16, LINE PS100
-YRPC- STA. 20+50.74,	-Y- STA. 24+06.46,
65.7 FT. RT.	14.0 FT. LT.
	ABANDONED 1

ABANDON 403 LF
8" UTILITY PIPE

ABANDON 1
UTILITY MH

PROP. - 40 LF
OF 8" SANITAR
GRAVITY SEWER

PROP. MH 4 (4' DIA.)
STA. 8+59.55, LINE PS100
-YRPC- STA. 20+84.91,
83.0 FT. RT.

PROP. - 113 LF OF
16" WATER LINE
(SEE UC-10
FOR PROFILE) - YLPC-

ABANDON	2
UTILITY	MH'S

ABANDON 245 LF
8" UTILITY PIPE

PROP. MH 1
(4' DIA., DOGHOUSE STYLE)
STA. 0+00.00, LINE PS100
-YRPC- STA. 12+11.60,
64.0 FT. RT.

PROP. MH 2 (4' DIA.)
STA. 3+42.09, LINE PS100
-YRPC- STA. 15+72.85,
33.9 FT. RT.

PROP. - 477 LF
OF 8" SANITARY
GRAVITY SEWER

PROP. MH 4A (4' DIA.)
STA. 10+35.95, LINE PS100
-YRPC- STA. 22+35.66,
95.0 FT RT

PROP. - 303 LF
OF 8" SANITARY
GRAVITY SEWER

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3,670 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROP. - 71 LF OF 6" WATER LINE,
1 - 16"x6" TAPPING SLEEVE
AND VALVE

PROP. - 70 LF OF 16" WATER LINE

UTILITY CONSTRUCTION

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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY AGREEMENT PLANS

PA- PCC **A**
18+10.83
PA- CS

PROP. 2'6"
CURB AND

SPECIAL CUT DITCH
SEE DETAIL 3

RELOCATE
HYD. TO
STA. 23+55
RT., SEE
UC-5) —

UTILITY CONSTRUCTION PLANS PREPARED BY:

DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS

6415 OLD PLANK RD, HIGH POINT, NC 2726
PHONE: (336)886-4821 FAX: (336)886-4458
WWW.DMP-INC.COM LICENSE: E-0245



PROJECT REFERENCE NO.		SHEET NO.	
U-5169		UC-5	
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

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PRELIMINARY PLANS
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UTILITY AGREEMENT PLANS

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 330 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROP. - 2 - RELOCATE WATER METERS
39 LF OF WATER SERVICE LINE

PROP. - 1 - RELOCATE WATER METER,
31 LF OF WATER SERVICE LINE

PROP. - 1 - RELOCATE FIRE HYD,
40 LF OF FIRE HYDRANT LEG

PROP. - 20 LF
8" DI SANITARY
GRAVITY SEWER

PROP. - 1 - RELOCATE FIRE HYD,
9 LF OF FIRE HYDRANT LEG

PROP. - 3 - RELOCATE WATER METERS,
65 LF OF WATER SERVICE LINE

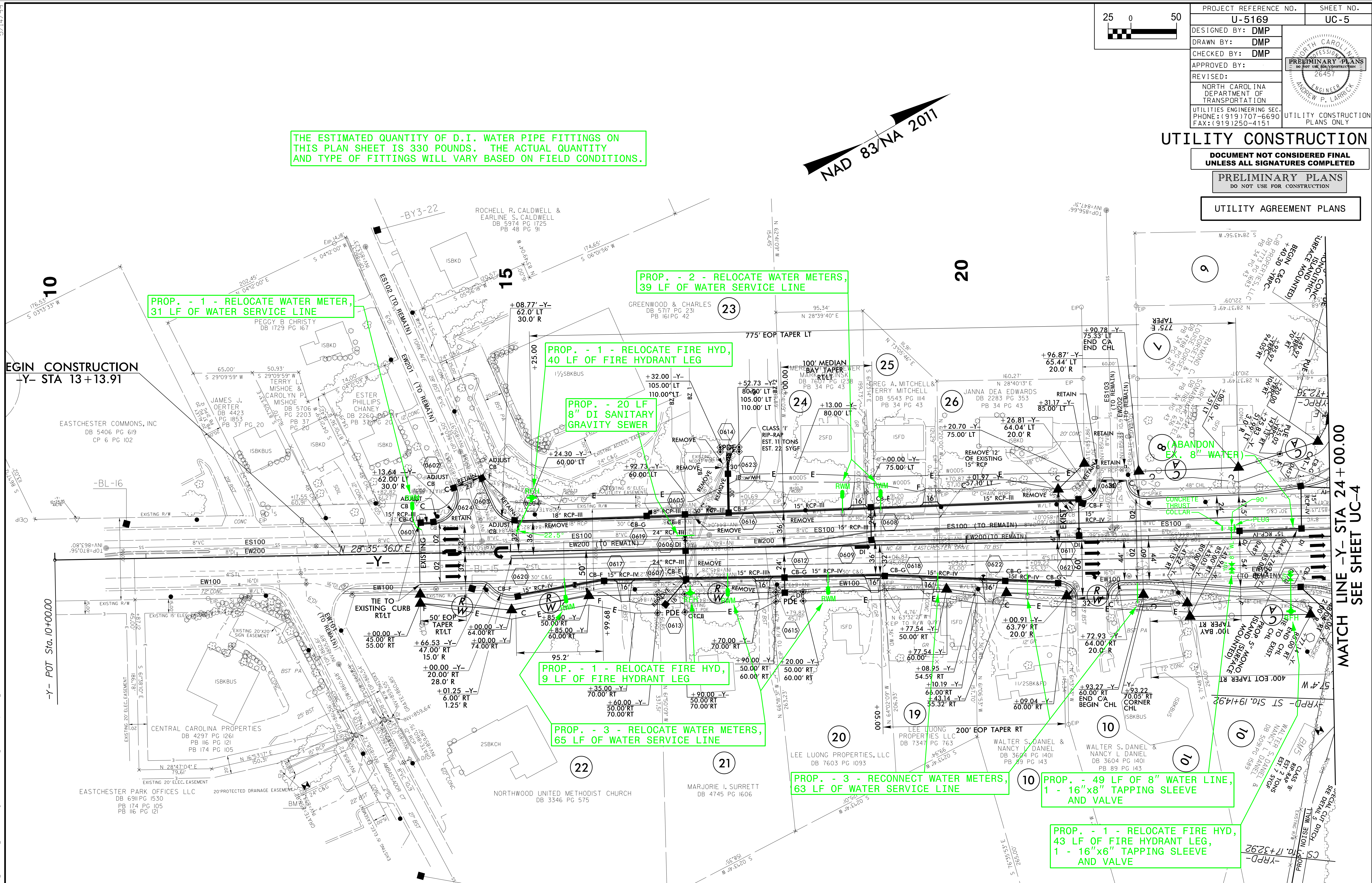
PROP. - 3 - RECONNECT WATER METERS,
63 LF OF WATER SERVICE LINE

PROP. - 49 LF OF 8" WATER LINE,
1 - 16"x8" TAPPING SLEEVE
AND VALVE

PROP. - 1 - RELOCATE FIRE HYD,
43 LF OF FIRE HYDRANT LEG,
1 - 16"x6" TAPPING SLEEVE
AND VALVE

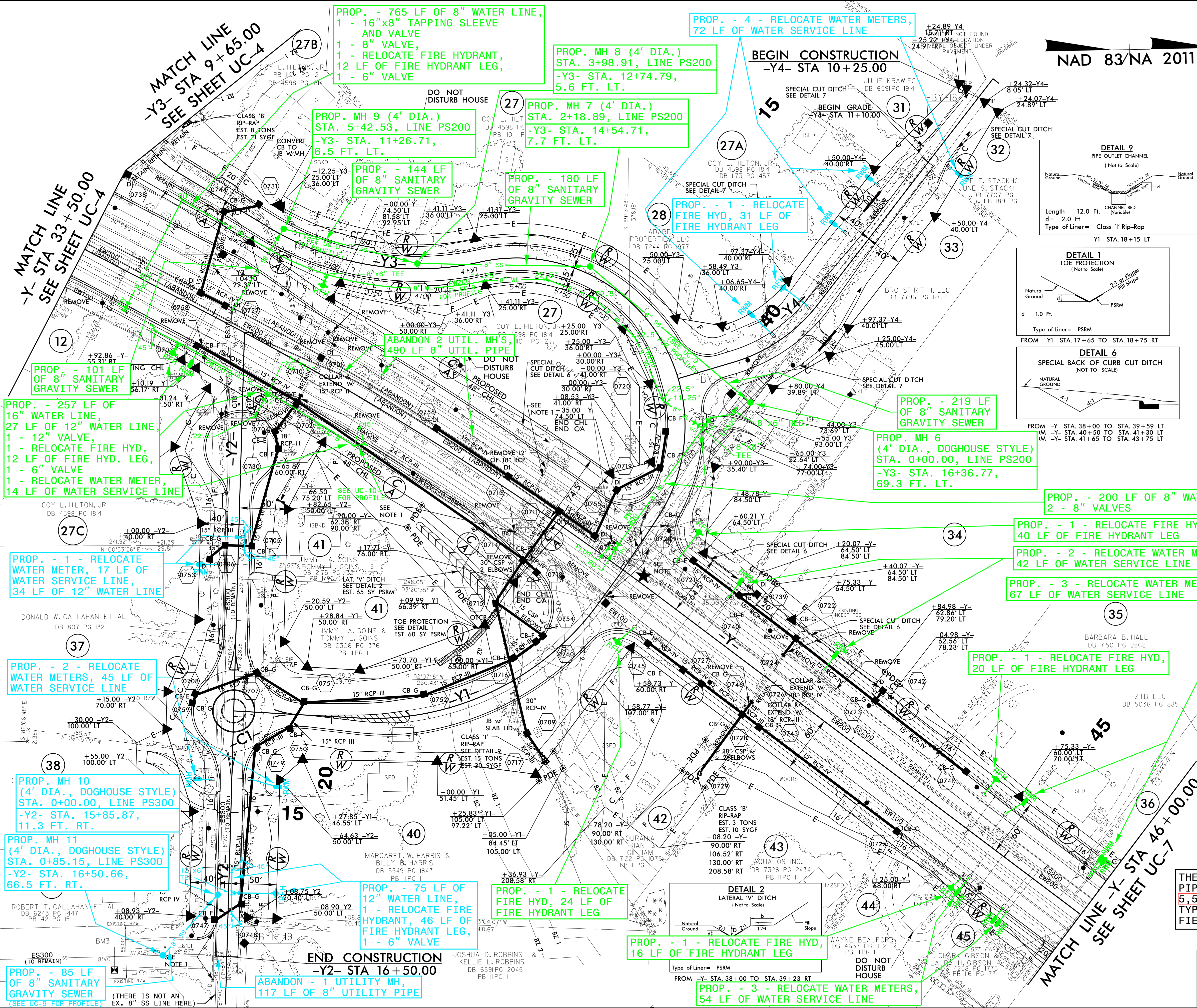
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SEE SHEET UC-4**

NAD 83/NA 2011



5/14/99

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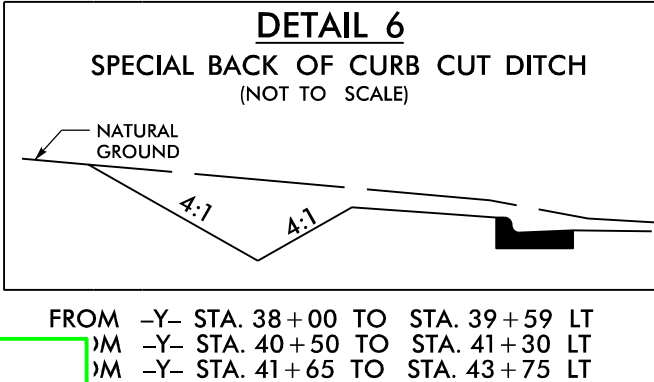
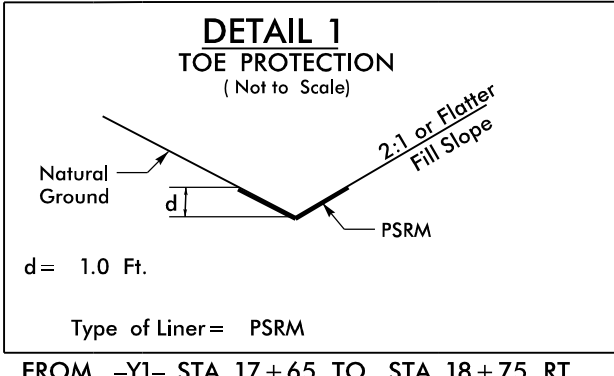
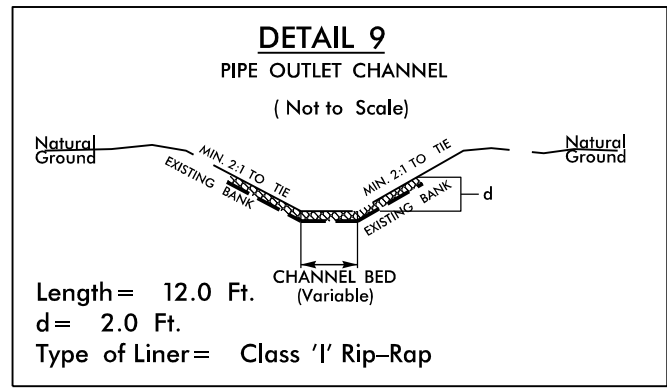
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U-5169	UC-6
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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PRELIMINARY PLANS
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UTILITY AGREEMENT PLANS



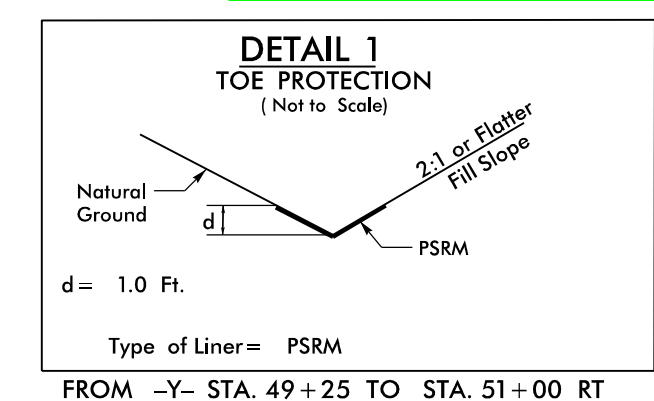
STATE: 2,625 lbs.
HIGH POINT: 2,965 lbs.

THE ESTIMATED QUANTITY OF D.I. WATER PIPE FITTINGS ON THIS PLAN SHEET IS 5,590 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



NAD 83/NA 2011



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UTILITY CONSTRUCTION

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UTILITY CONSTRUCTION PLANS PREPARED BY:

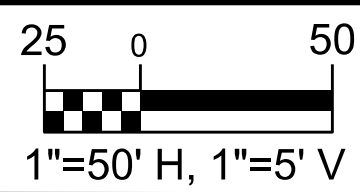
DAVIS • MARTIN • POWELL
ENGINEERS & SURVEYORS


6415 OLD PLANK RD., HIGH POINT, NC 27285
PHONE: (336)886-4821 FAX: (336)886-4458
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dmp

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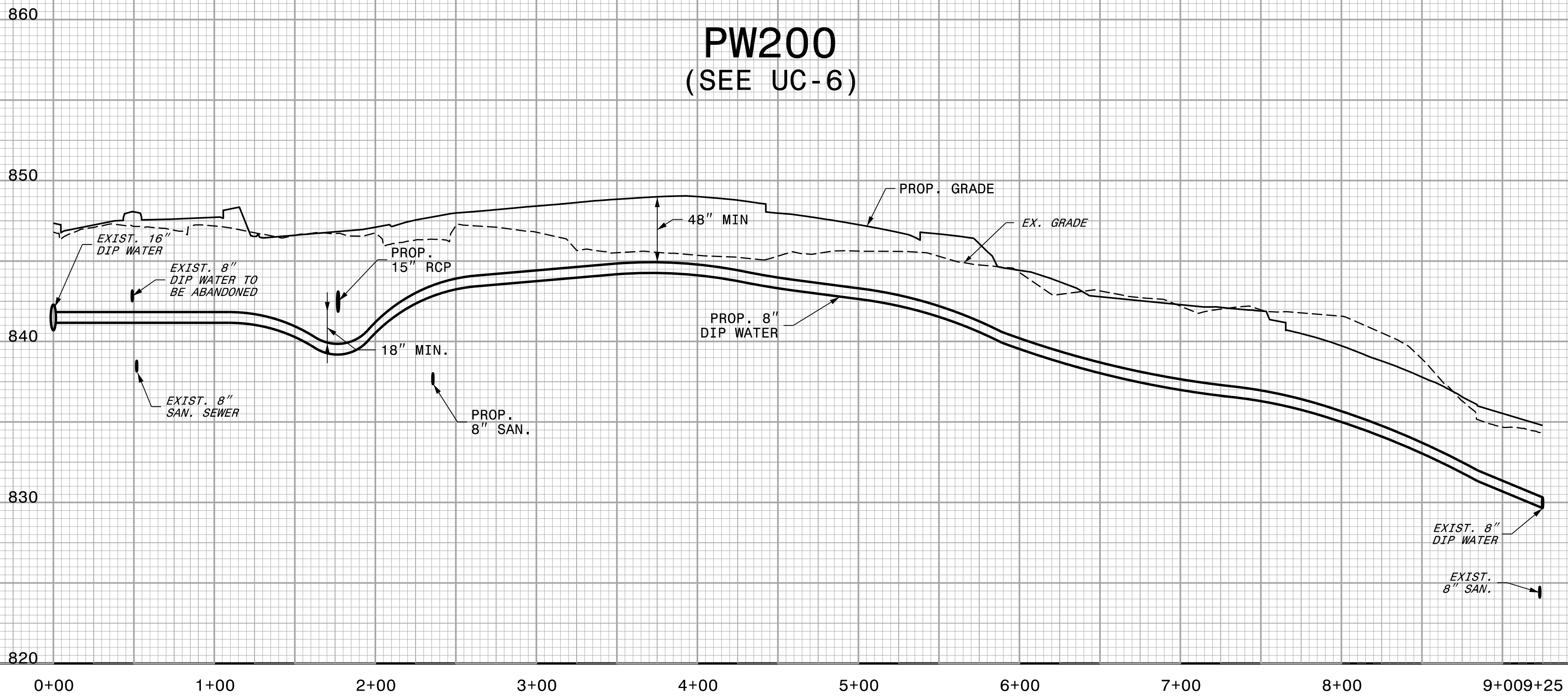
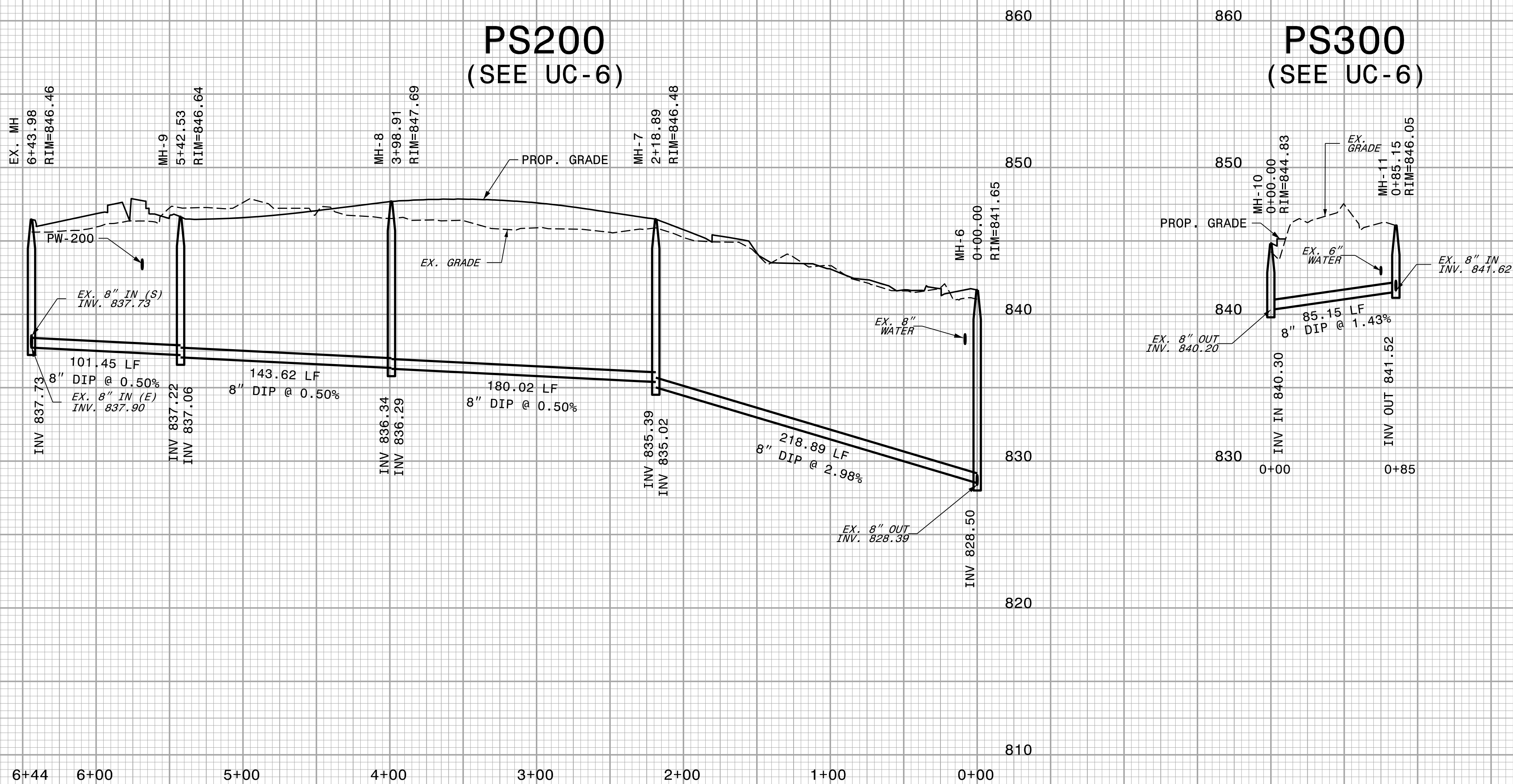


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DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

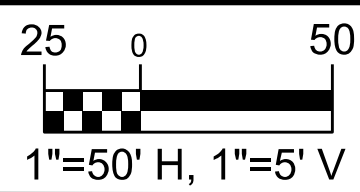
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5/14/99



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U-5169	UC-10
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CHECKED BY: DMP	
APPROVED BY: DMP	
REVISED:	<div>UTILITY CONSTRUCTION PLANS ONLY</div>
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

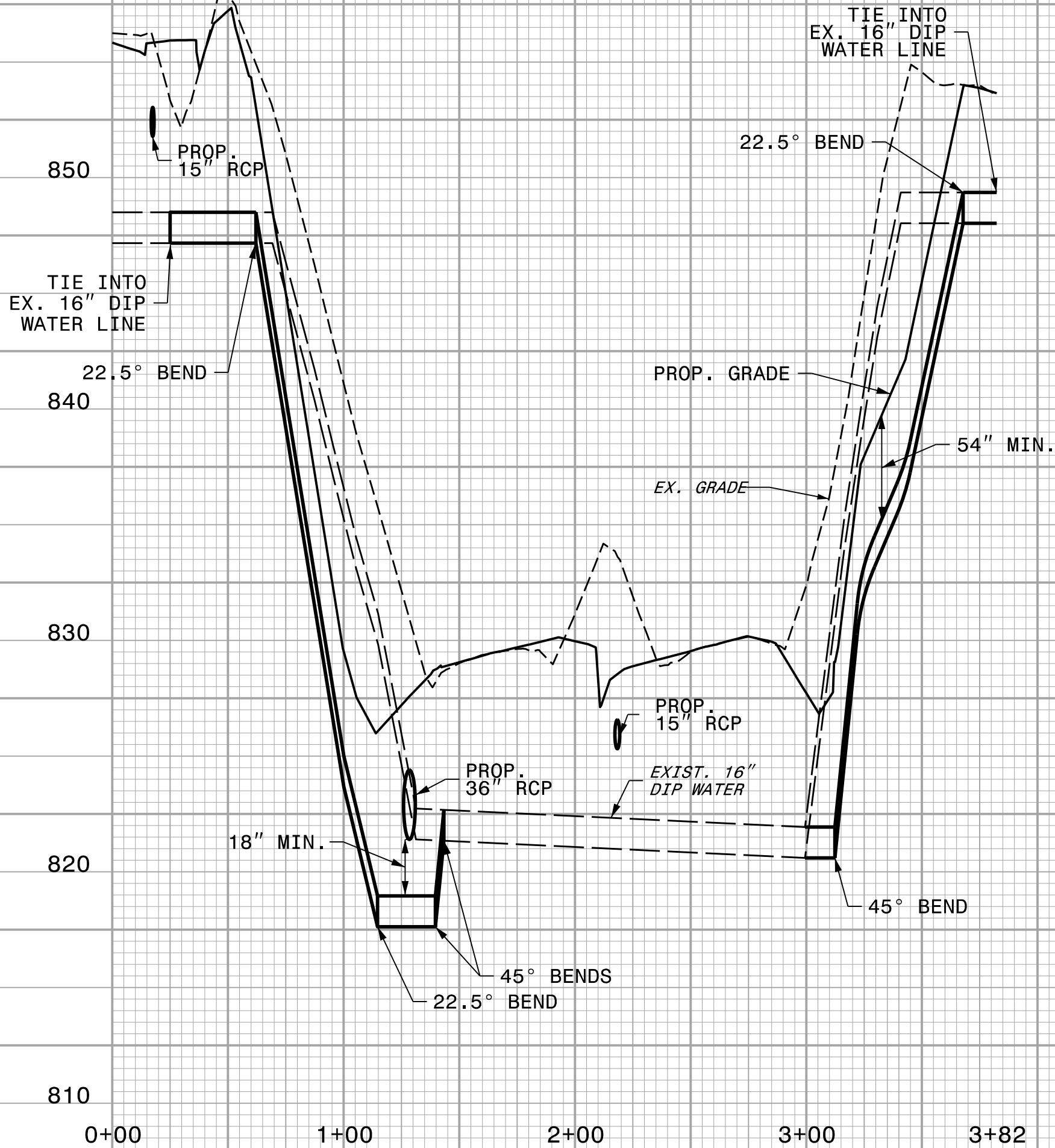
UTILITY AGREEMENT PLANS

UTILITY CONSTRUCTION

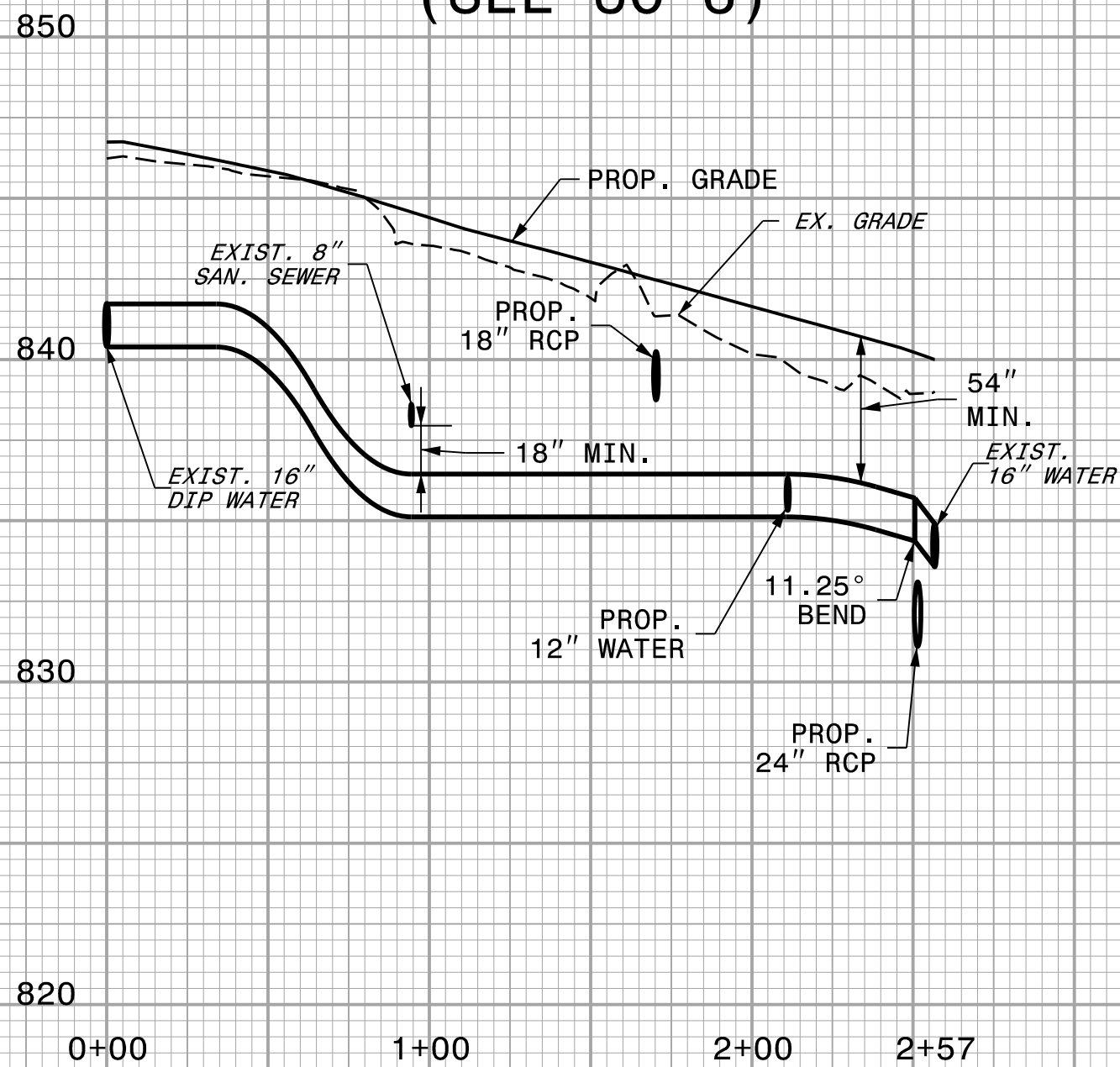
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PW100-A
(SEE UC-4)



PW100-B
(SEE UC-6)



PW100-C
(SEE UC-7)

