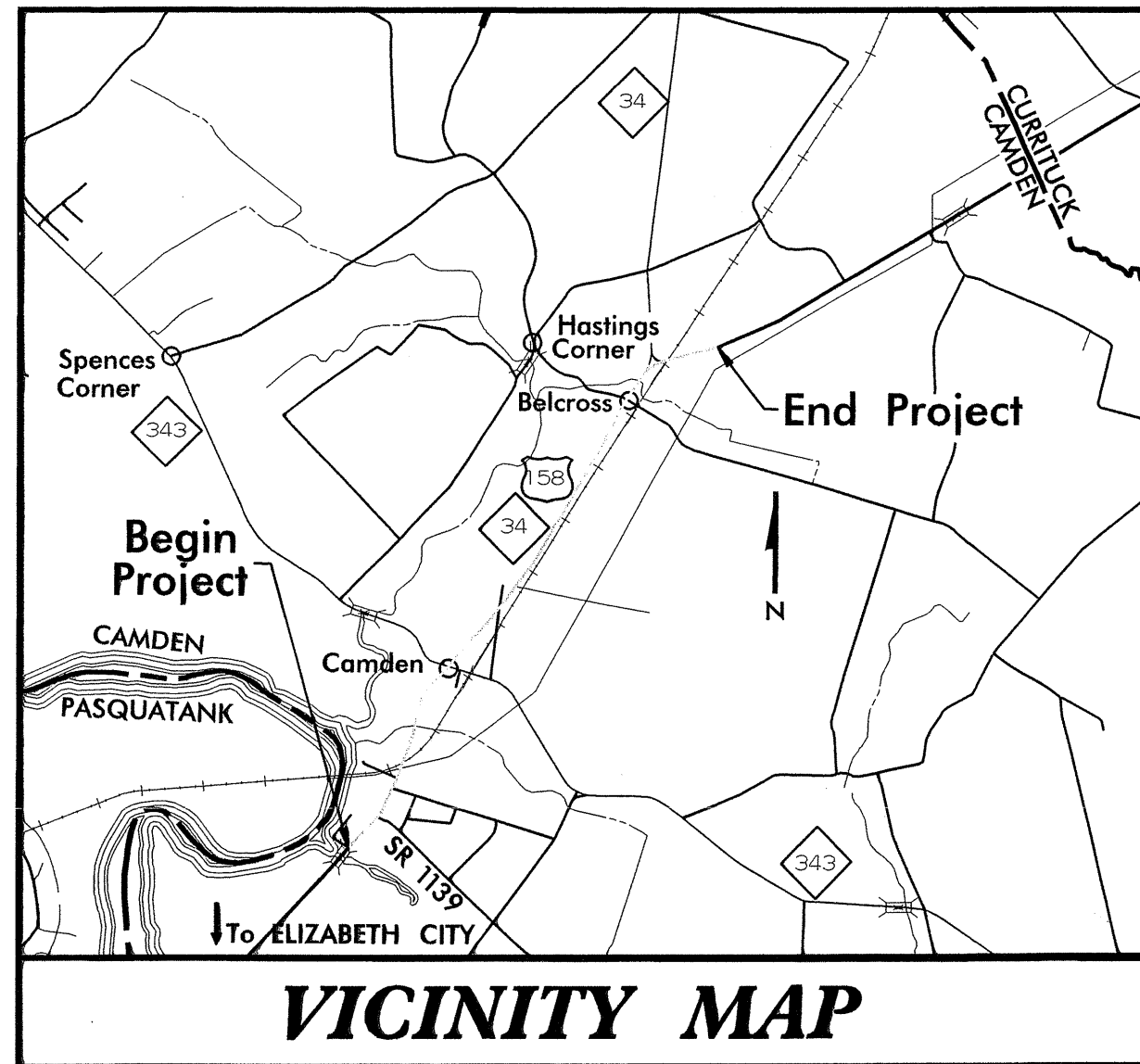


TIP PROJECT: R-2414B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
R-2414B	UC-1

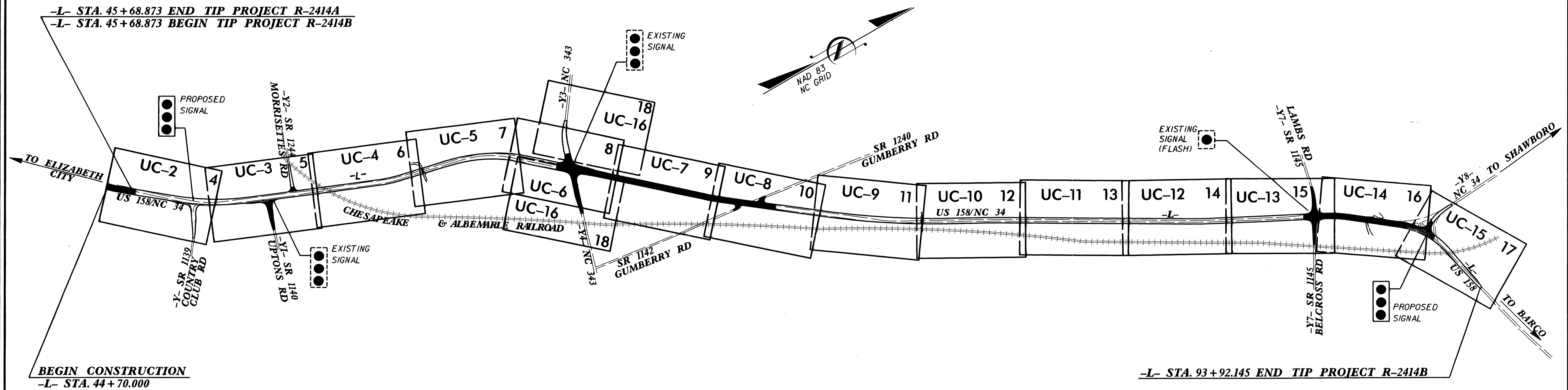


**UTILITY CONSTRUCTION PLANS
CAMDEN COUNTY**

LOCATION: US 158 - FROM NORTH OF SR 1257 (HAVENWOOD DRIVE) TO EAST OF NC 34 IN BELCROSS

TYPE OF WORK: UTILITIES RELOCATION

ALL DIMENSIONS IN THESE PLANS ARE IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

NOTE: THE PROPOSED TRENCHLESS WATER MAIN AND/OR FORCE MAIN INSTALLATIONS SHOWN ON SHEETS UC-4, UC-5, UC-9, UC-10, AND UC-14 SHALL BE PERFORMED OUTSIDE THE PROPOSED SOIL MIXING AREAS, OR AS DIRECTED BY THE ENGINEER.

PREPARED IN THE OFFICE OF:
DAVIS-MARTIN-POWELL AND ASSOCIATES, INC.
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE (336) 886-4821
FAX (336) 886-4458

Randy McNeill, P.E. UTILITIES PROJECT MANAGER
Andy Larrick, P.E. UTILITIES PROJECT ENGINEER
Andy Larrick, P.E. UTILITIES PROJECT DESIGNER

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-16	UTILITY CONSTRUCTION PLAN SHEETS
UC-17	PROFILE SHEET
UC-18	DETAIL SHEET

WATER & SEWER OWNERS ON PROJECT

WATER - CAMDEN COUNTY
SEWER - CAMDEN COUNTY

SEAL

**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION**

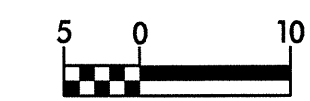
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kifah Kamil UTILITIES PROJECT DESIGNER

REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
 DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27265
 PHONE: (336) 898-4821 FAX: (336) 898-4458



PROJECT REFERENCE NO. R-2414B	SHEET NO. UC-2
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	UTILITY CONSTRUCTION PLANS ONLY

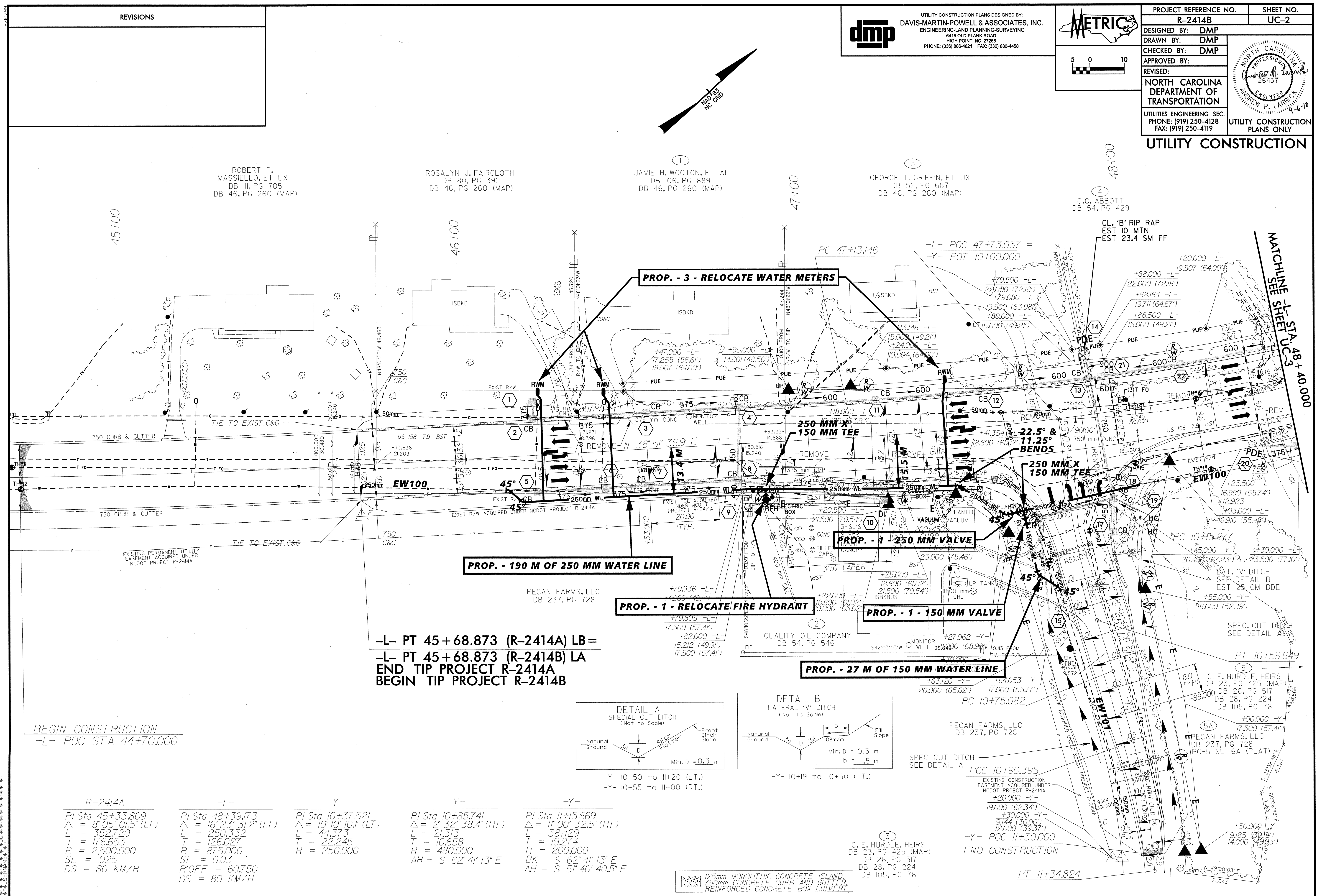
ROBERT F. MASSIELLO, ET UX
 DB III, PG 705
 DB 46, PG 260 (MAP)

ROSALYN J. FAIRCLOTH
 DB 80, PG 392
 DB 46, PG 260 (MAP)

JAMIE H. WOOTON, ET AL
 DB 106, PG 689
 DB 46, PG 260 (MAP)

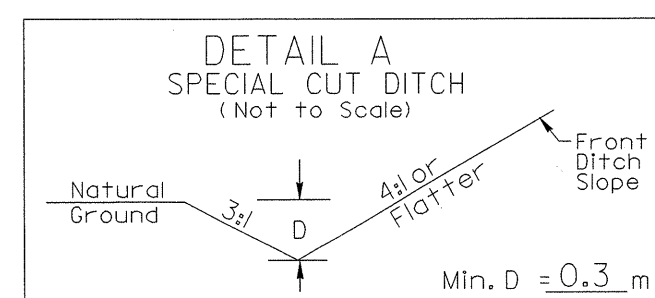
GEORGE T. GRIFFIN, ET UX
 DB 52, PG 687
 DB 46, PG 260 (MAP)

O.C. ABBOTT
 DB 54, PG 429

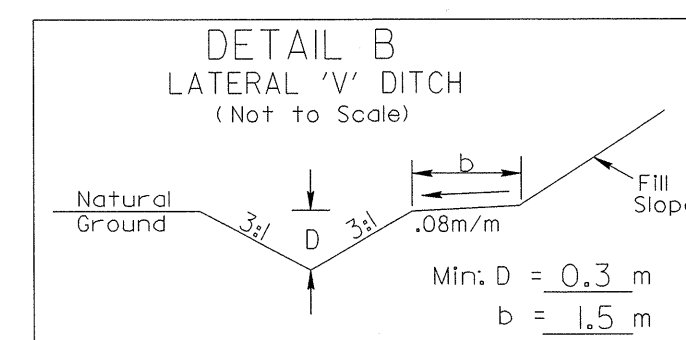


-L- PT 45+68.873 (R-2414A) LB=
 -L- PT 45+68.873 (R-2414B) LA
 END TIP PROJECT R-2414A
 BEGIN TIP PROJECT R-2414B

BEGIN CONSTRUCTION
 -L- POC STA 44+70.000



-Y- 10+50 to 11+20 (LT.)
 -Y- 10+55 to 11+00 (RT.)



-Y- 10+19 to 10+50 (LT.)

R-2414A
 PI Sta 45+33.809
 Δ = 8° 05' 01.5" (LT)
 L = 352.720
 T = 176.653
 R = 2,500.000
 SE = .025
 DS = 80 KM/H

-L-
 PI Sta 48+39.173
 Δ = 16° 23' 31.2" (LT)
 L = 250.332
 T = 126.027
 R = 875.000
 SE = 0.03
 R/OFF = 60.750
 DS = 80 KM/H

-Y-
 PI Sta 10+37.521
 Δ = 10° 10' 10.1" (LT)
 L = 44.373
 T = 22.245
 R = 250.000

-Y-
 PI Sta 10+85.741
 Δ = 2° 32' 38.4" (RT)
 L = 21.313
 T = 10.658
 R = 480.000
 AH = S 62° 41' 13" E

-Y-
 PI Sta 11+15.669
 Δ = 11° 00' 32.5" (RT)
 L = 38.429
 T = 19.274
 R = 200.000
 BK = S 62° 41' 13" E
 AH = S 51° 40' 40.5" E

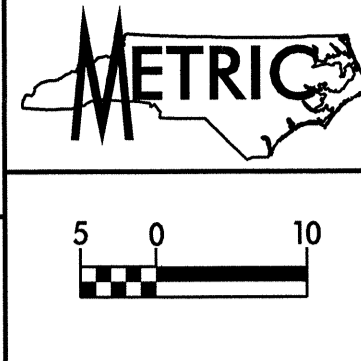
125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

END CONSTRUCTION
 -Y- POC 11+30.000

REVISIONS

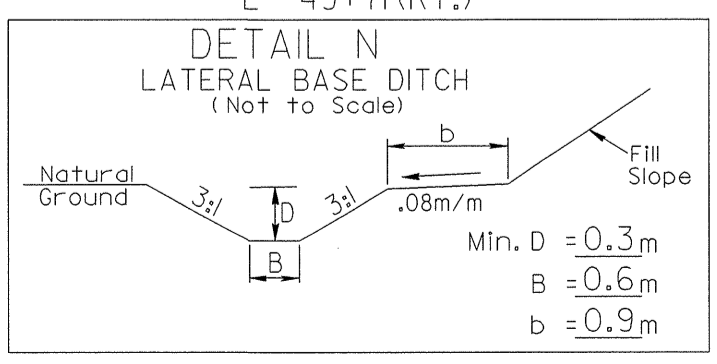
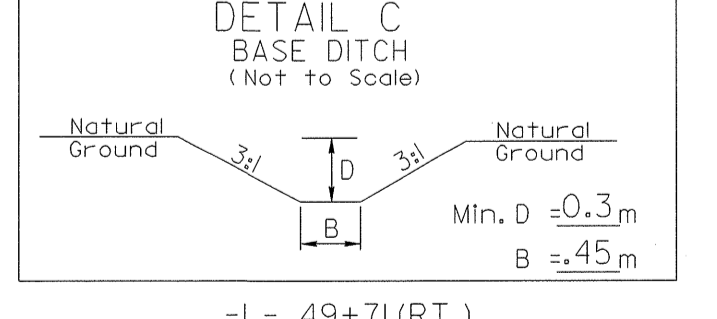
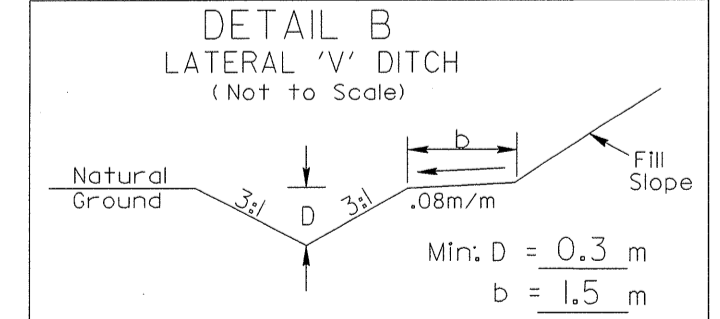
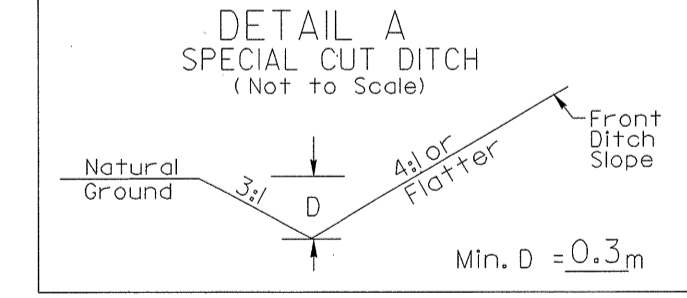
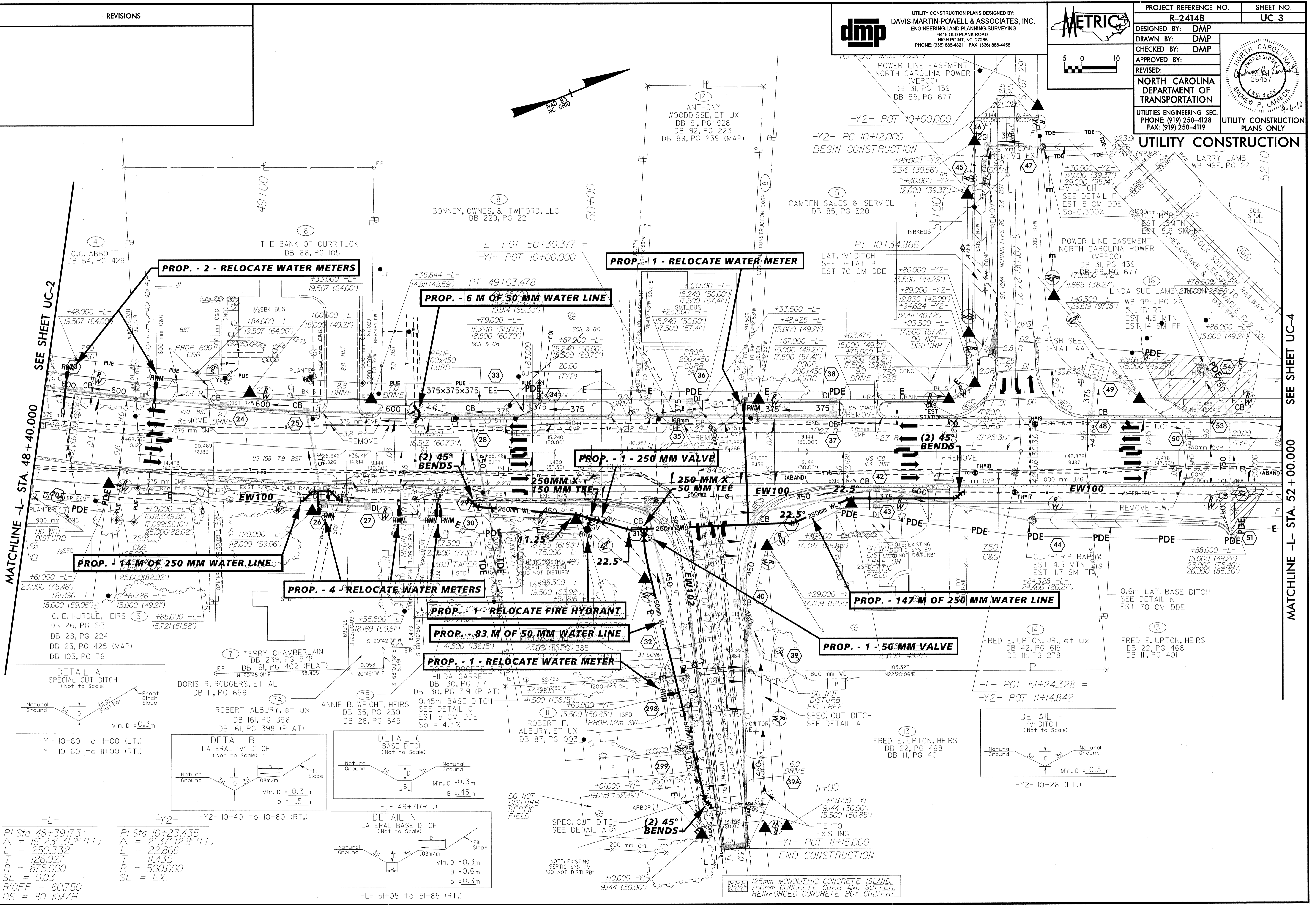
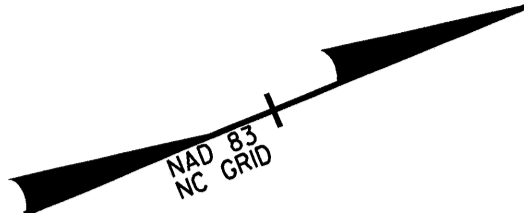


UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6416 OLD PLANK ROAD
HIGH POINT, NC 27285
PHONE: (336) 886-4521 FAX: (336) 886-4458



PROJECT REFERENCE NO.	R-2414B	SHEET NO.	UC-3
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISED:		UTILITY CONSTRUCTION PLANS ONLY	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	

UTILITY CONSTRUCTION



-L-
PI Sta 48+39.173
Δ = 16° 23' 31.2" (LT)
L = 250.332
T = 126.027
R = 875.000
SE = 0.03
R'OFF = 60.750
DS = 80 KM/H

-Y2-
PI Sta 10+23.435
Δ = 27° 37' 12.8" (LT)
L = 22.866
T = 11.435
R = 500.000
SE = EX.

-L- 51+05 to 51+85 (RT.)

125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT

MATCHLINE -L- STA. 48 + 40.000
SEE SHEET UC-2

MATCHLINE -L- STA. 52 + 00.000
SEE SHEET UC-4

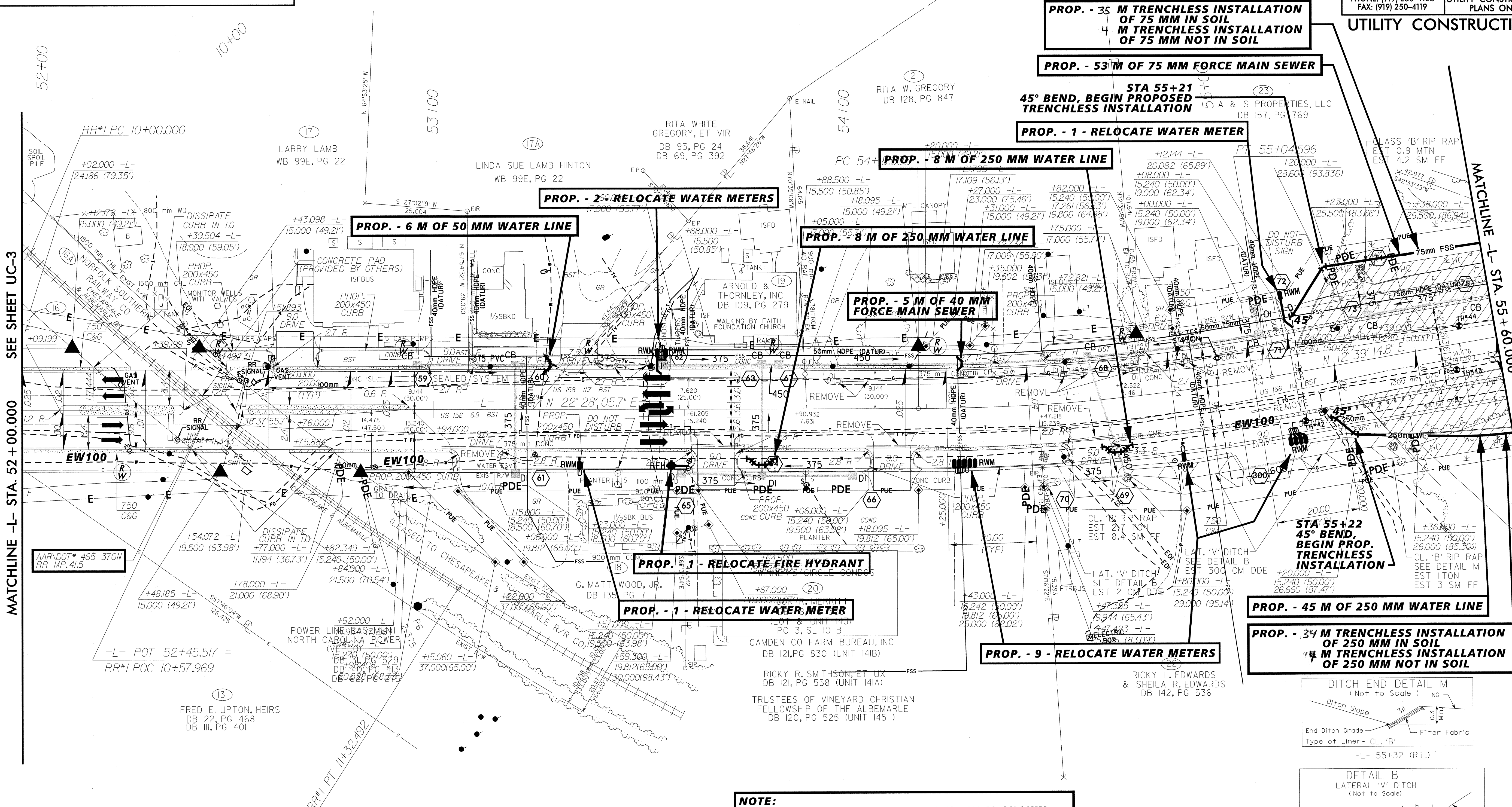
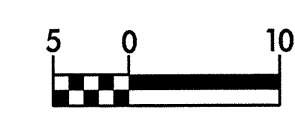
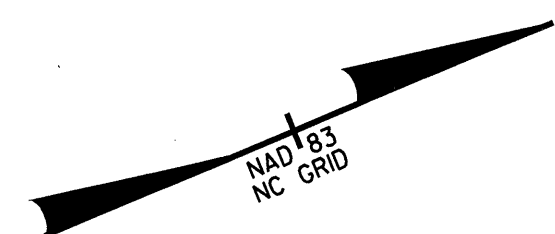
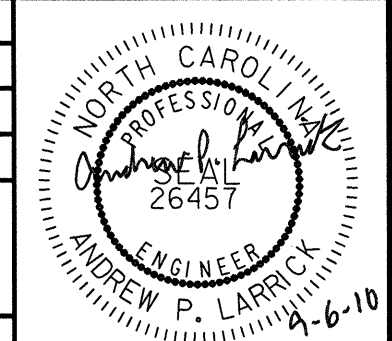
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4621 FAX: (336) 886-4458



PROJECT REFERENCE NO. R-2414B SHEET NO. UC-4
DESIGNED BY: DMP
DRAWN BY: DMP
CHECKED BY: DMP
APPROVED BY:
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 250-4128
FAX: (919) 250-4119
UTILITY CONSTRUCTION PLANS ONLY



MATCHLINE -L- STA. 52 + 00.000 SEE SHEET UC-3

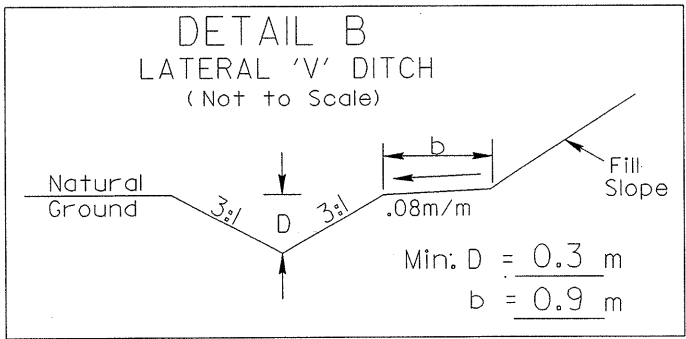
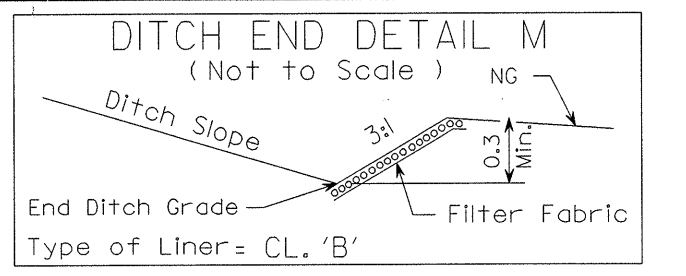
SEE SHEET UC-5

NOTE:
EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.

RR #1
PI Sta 10+66.452
Δ = 11° 02' 25.1" (LT)
L = 132.492
T = 66.452
R = 687.593

125mm MONOLITHIC CONCRETE ISLAND
750mm CONCRETE CURB AND GUTTER
REINFORCED CONCRETE BOX CULVERT

-L-
PI Sta 54+61.452
Δ = 9° 48' 50.9" (LT)
L = 86.501
T = 43.357
R = 505.000
SE = 0.04
PROFF = 81.000
DS = 80 KM/H

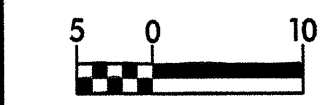


-L- 54+47 to 54+52 (RT.)
-L- 54+67 to 55+32 (RT.)

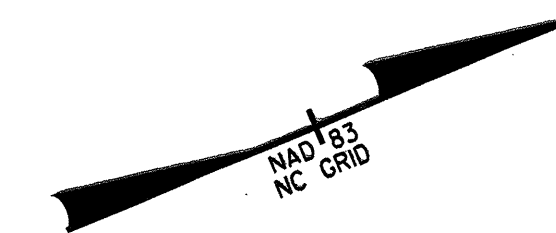
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
8415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4468



PROJECT REFERENCE NO.	R-2414B	SHEET NO.	UC-5
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISER:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119		UTILITY CONSTRUCTION PLANS ONLY	



THE CONTRACTOR SHALL ADJUST THE PROPOSED FORCE MAIN RELATIVE TO THE U/G GAS AND POWER LINES

PROP. - 77 M TRENCHLESS INSTALLATION OF 75 MM IN SOIL
9 M TRENCHLESS INSTALLATION OF 75 MM NOT IN SOIL

PROP. - 117 M OF 75 MM FORCE MAIN SEWER

PROP. - 30 M RELOCATE WATER METERS

PROP. - 7 M OF 100-MM FORCE MAIN SEWER

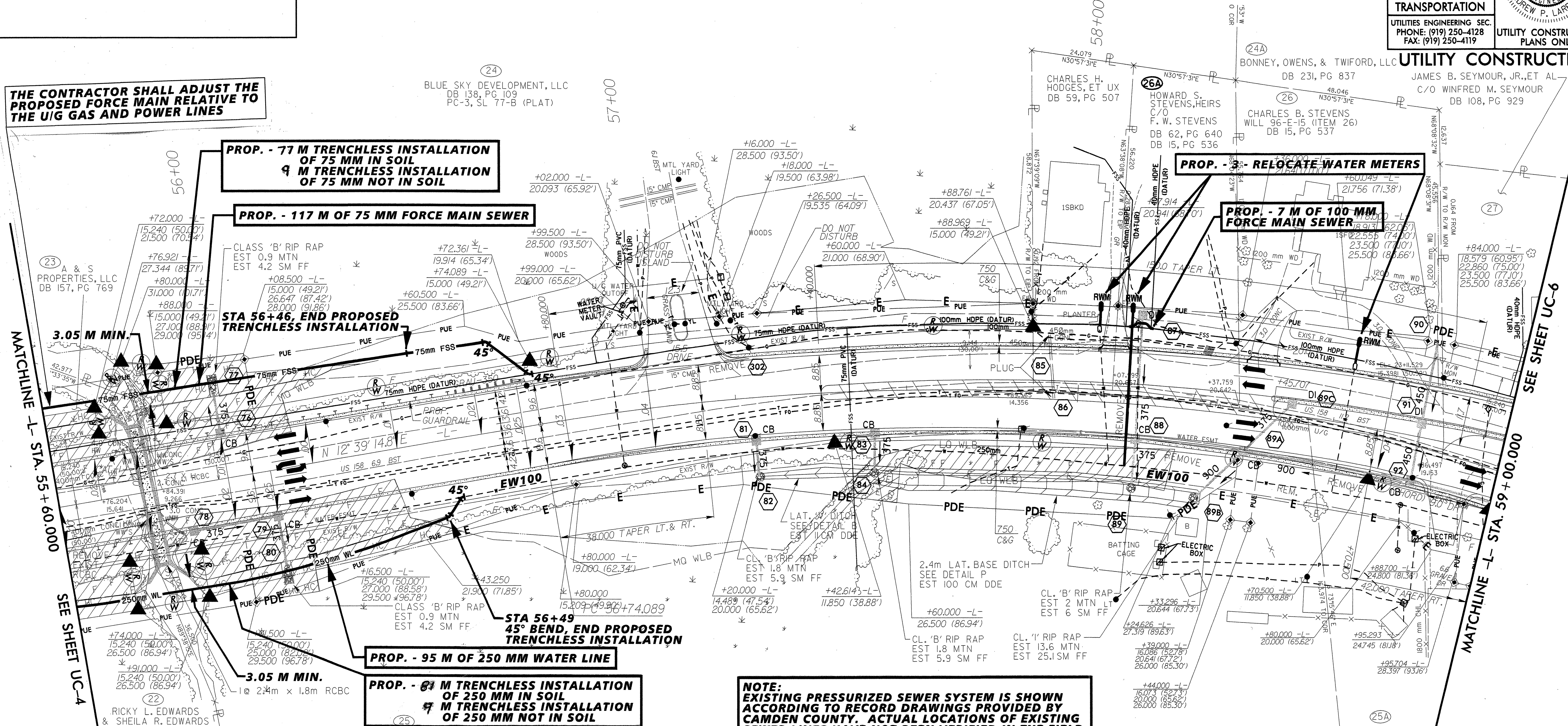
STA 56+46, END PROPOSED TRENCHLESS INSTALLATION

STA 56+49, 45° BEND, END PROPOSED TRENCHLESS INSTALLATION

PROP. - 95 M OF 250 MM WATER LINE

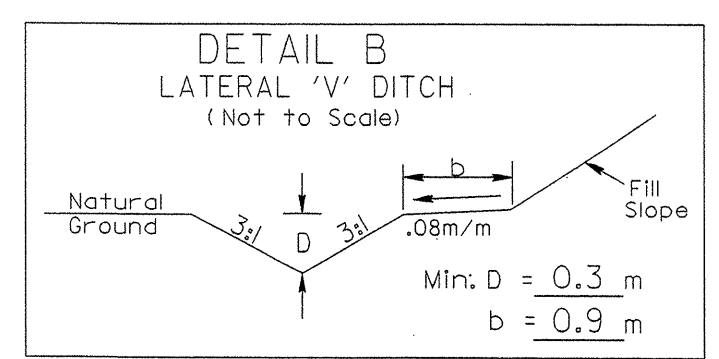
PROP. - 67 M TRENCHLESS INSTALLATION OF 250 MM IN SOIL
7 M TRENCHLESS INSTALLATION OF 250 MM NOT IN SOIL

NOTE: EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN ACCORDING TO RECORD DRAWINGS PROVIDED BY CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.

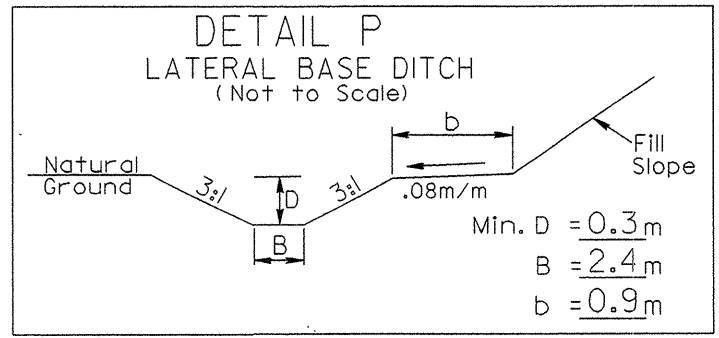


MATCHLINE -L- STA. 55 + 60.000
SEE SHEET UC-4

SEE SHEET UC-6
MATCHLINE -L- STA. 59 + 00.000



-L- 57+24 to 57+47 (RT.)



-L- 57+52 to 58+25 (RT.)

-L-
PI Sta 58+15.159
 $\Delta = 28' 46" 17.6" (RT)$
L = 276.187
T = 141.071
R = 550.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

RICKY L. EDWARDS & SHEILA R. EDWARDS
DB 142, PG 536

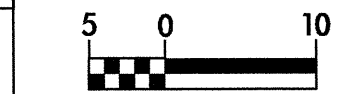
CAMDEN CO BOARD OF EDUCATION
DB 31, PG 419
MB 18, PG 551A
DB 35, PG 511
DB 62, PG 15
DB 83, PG 451

CAMDEN CO BOARD OF EDUCATION
DB 31, PG 419
MB 18, PG 551A
DB 35, PG 511
DB 62, PG 15
DB 83, PG 451

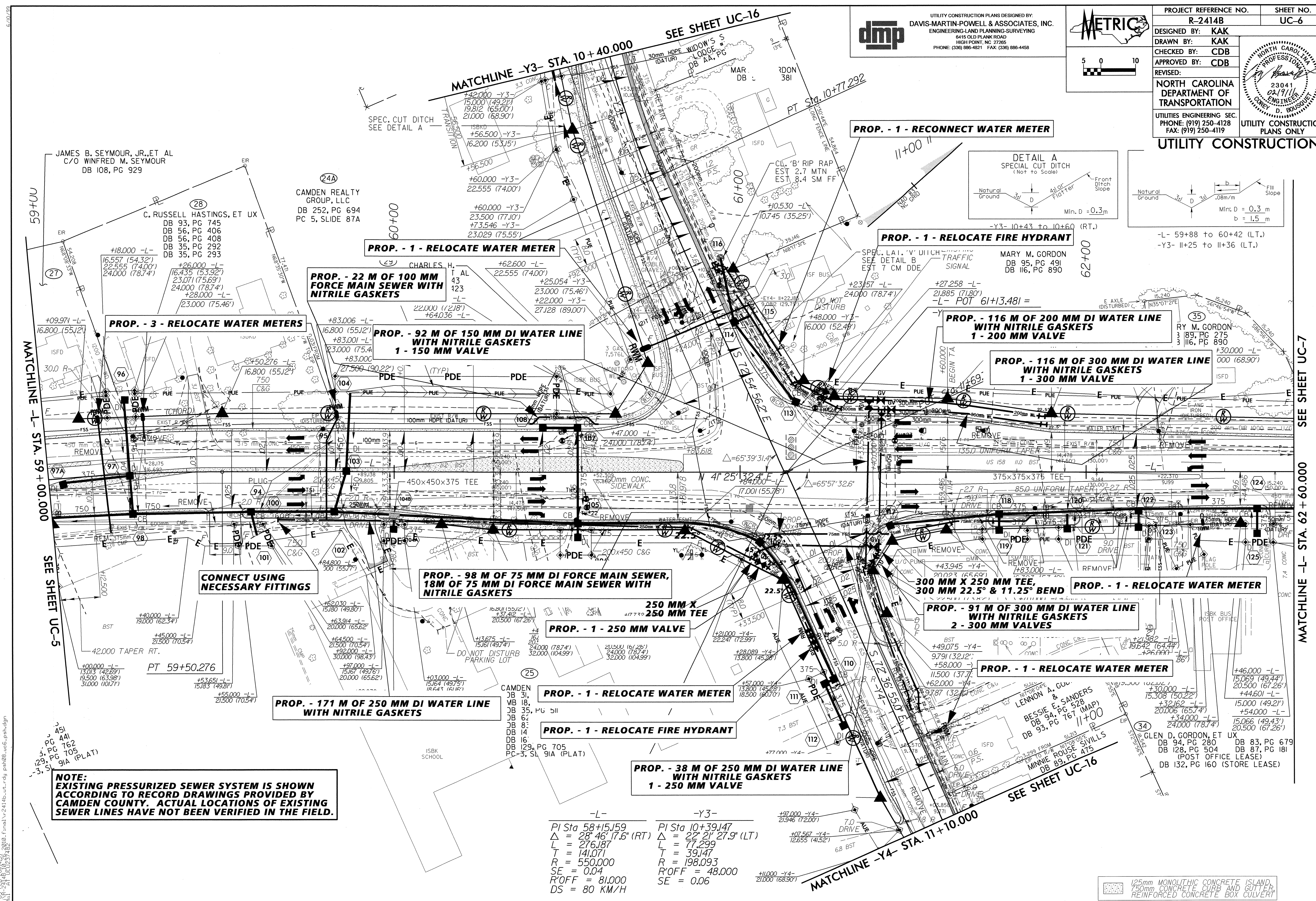
CAMDEN COUNTY
DB 143, PG 441
PC-3 SL 91A (PLAT)



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27285
PHONE: (336) 886-4621 FAX: (336) 886-4458



PROJECT REFERENCE NO.	SHEET NO.
R-2414B	UC-6
DESIGNED BY: KAK	
DRAWN BY: KAK	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



NOTE:
EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.

-L-	-Y3-
PI Sta 58+15.159	PI Sta 10+39.147
Δ = 28' 46" 17.6" (RT)	Δ = 22' 21" 27.9" (LT)
L = 276.187	L = 77.299
T = 141.071	T = 39.147
R = 550.000	R = 198.093
SE = 0.04	R'OFF = 48.000
R'OFF = 81.000	SE = 0.06
DS = 80 KM/H	

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

SEE SHEET UC-7
MATCHLINE -L- STA. 62 + 60.000

SEE SHEET UC-5
MATCHLINE -L- STA. 59 + 00.000

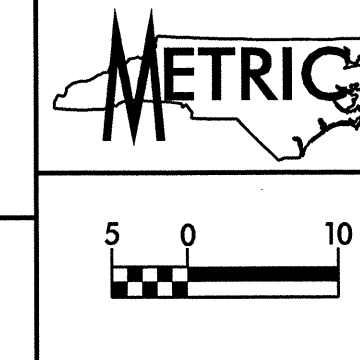
SEE SHEET UC-16
MATCHLINE -Y3- STA. 10 + 40.000

SEE SHEET UC-16
MATCHLINE -Y4- STA. 11 + 10.000

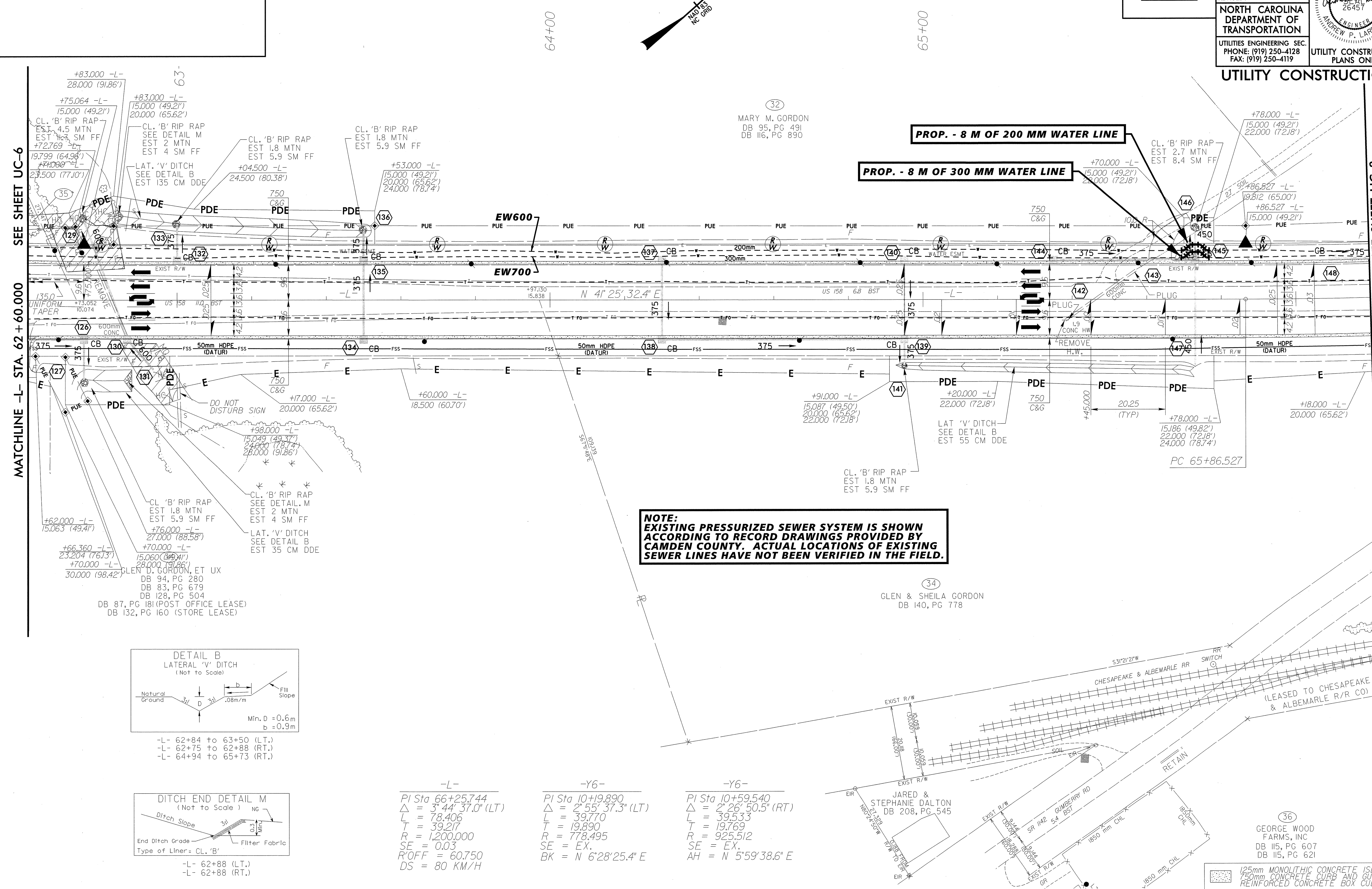
REVISIONS



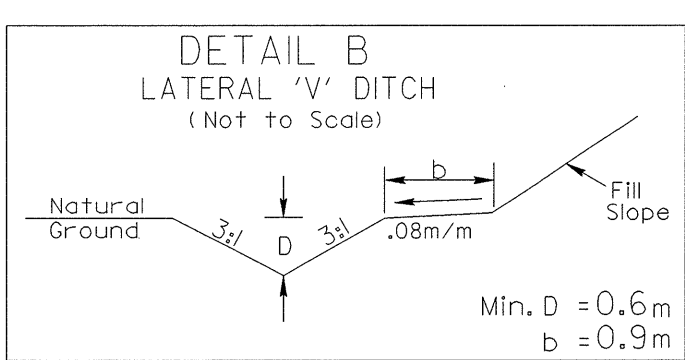
UTILITY CONSTRUCTION PLANS DESIGNED BY:
 DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27285
 PHONE: (336) 888-4321 FAX: (336) 888-4458



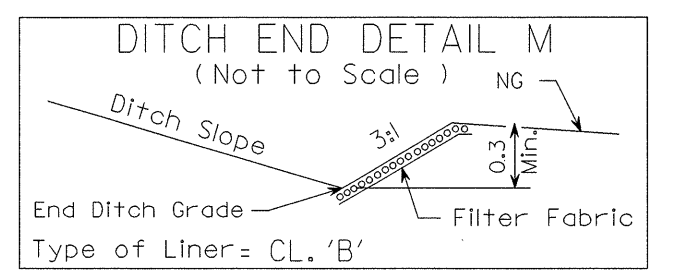
PROJECT REFERENCE NO. R-2414B	SHEET NO. UC-7
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119
REVISED:	
UTILITY CONSTRUCTION PLANS ONLY	



NOTE:
 EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
 ACCORDING TO RECORD DRAWINGS PROVIDED BY
 CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
 SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.



- L- 62+84 to 63+50 (LT.)
- L- 62+75 to 62+88 (RT.)
- L- 64+94 to 65+73 (RT.)



- L- 62+88 (LT.)
- L- 62+88 (RT.)

-L-
 PI Sta 66+25.744
 $\Delta = 3^{\circ}44'37.0"$ (LT.)
 L = 78.406
 T = 39.217
 R = 1,200.000
 SE = EX.
 R/OFF = 60.750
 DS = 80 KM/H

-Y6-
 PI Sta 10+19.890
 $\Delta = 2^{\circ}55'37.3"$ (LT.)
 L = 39.770
 T = 19.890
 R = 778.495
 SE = EX.
 BK = N 6'28'25.4" E

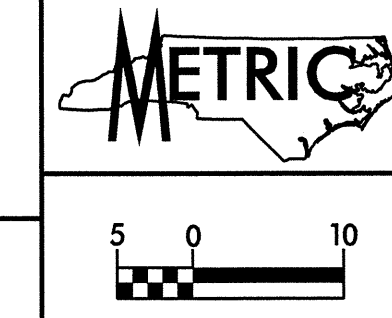
-Y6-
 PI Sta 10+59.540
 $\Delta = 2^{\circ}26'50.5"$ (RT.)
 L = 39.533
 T = 19.769
 R = 925.512
 SE = EX.
 AH = N 5'59'38.6" E

125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458



PROJECT REFERENCE NO.	R-2414B	SHEET NO.	UC-8
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISION:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.		UTILITY CONSTRUCTION PLANS ONLY	

M. W. GODWIN, HEIRS
C/O JOYCE GODWIN
DB 36, PG 656
MB 2, PG 23

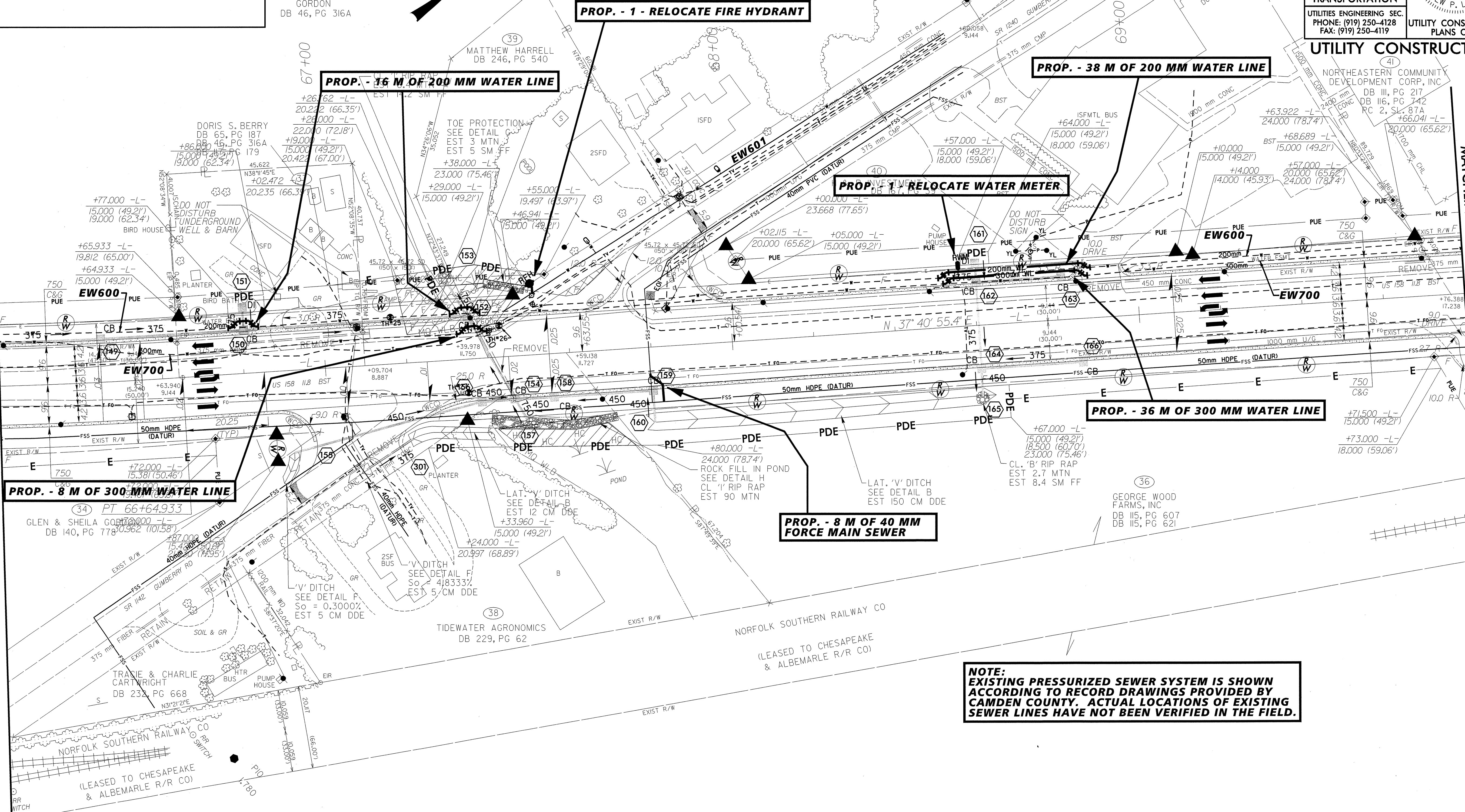
(32) MARY M. GORDON
DB 46, PG 316A

(39) MATTHEW HARRELL
DB 246, PG 540

(41) NORTHEASTERN COMMUNIT
DEVELOPMENT CORP, INC
DB III, PG 217
DB II, PG 742
PC 2, SL. 87A
+66.041 -L-
30,000 (65.62')

SEE SHEET UC-7
MATCHLINE -L- STA. 66 + 20.000

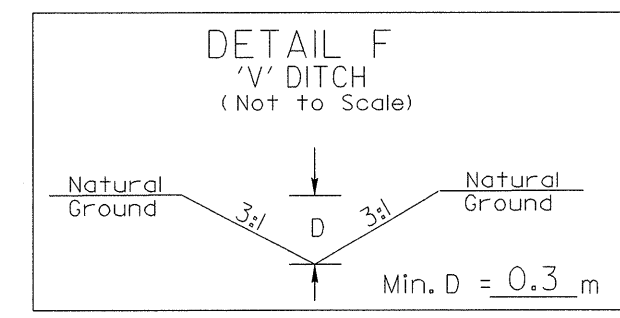
MATCHLINE -L- STA. 69 + 80.000
SEE SHEET UC-9



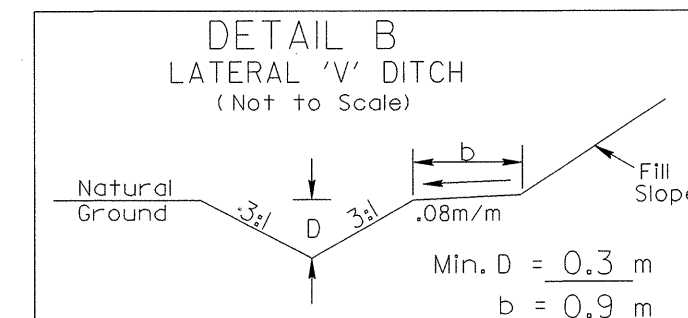
NOTE:
EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.

-L-
PI Sta 66+25.744
Δ = 3° 44' 37.0" (LT)
L = 78.406
T = 39.217
R = 1,200.000
SE = 0.03
R/OFF = 60.750
DS = 80 KM/H

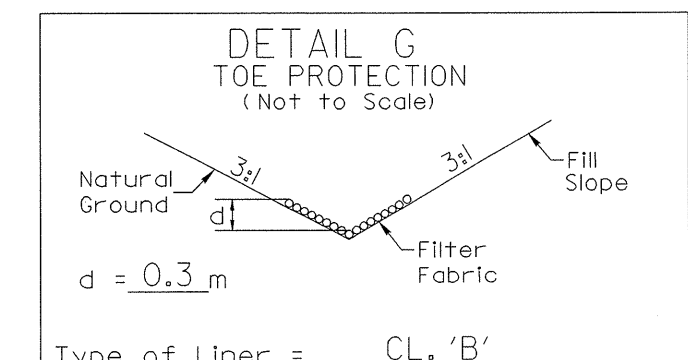
125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT



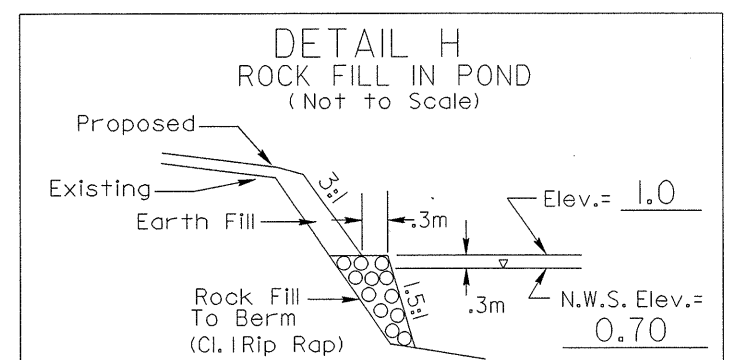
-L- 66+87 (RT.)
-L- 67+06 (RT.)



-L- 67+23 to 67+41 (RT.)
-L- 67+80 to 68+60 (RT.)



-L- 67+40 to 67+50 (LT.)

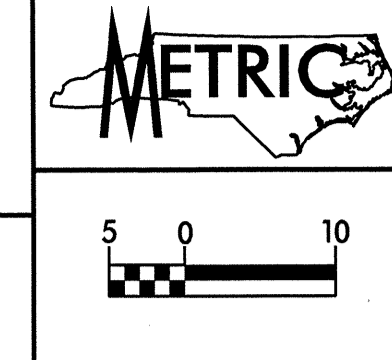


-L- 67+41 to 67+69 (RT.)

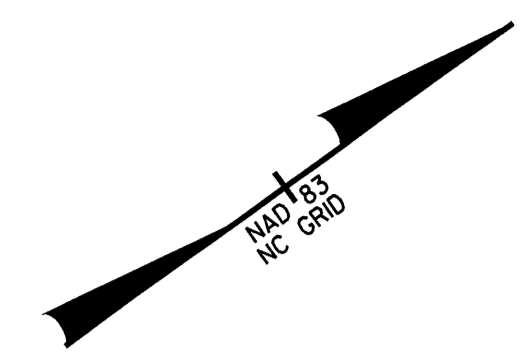
REVISIONS



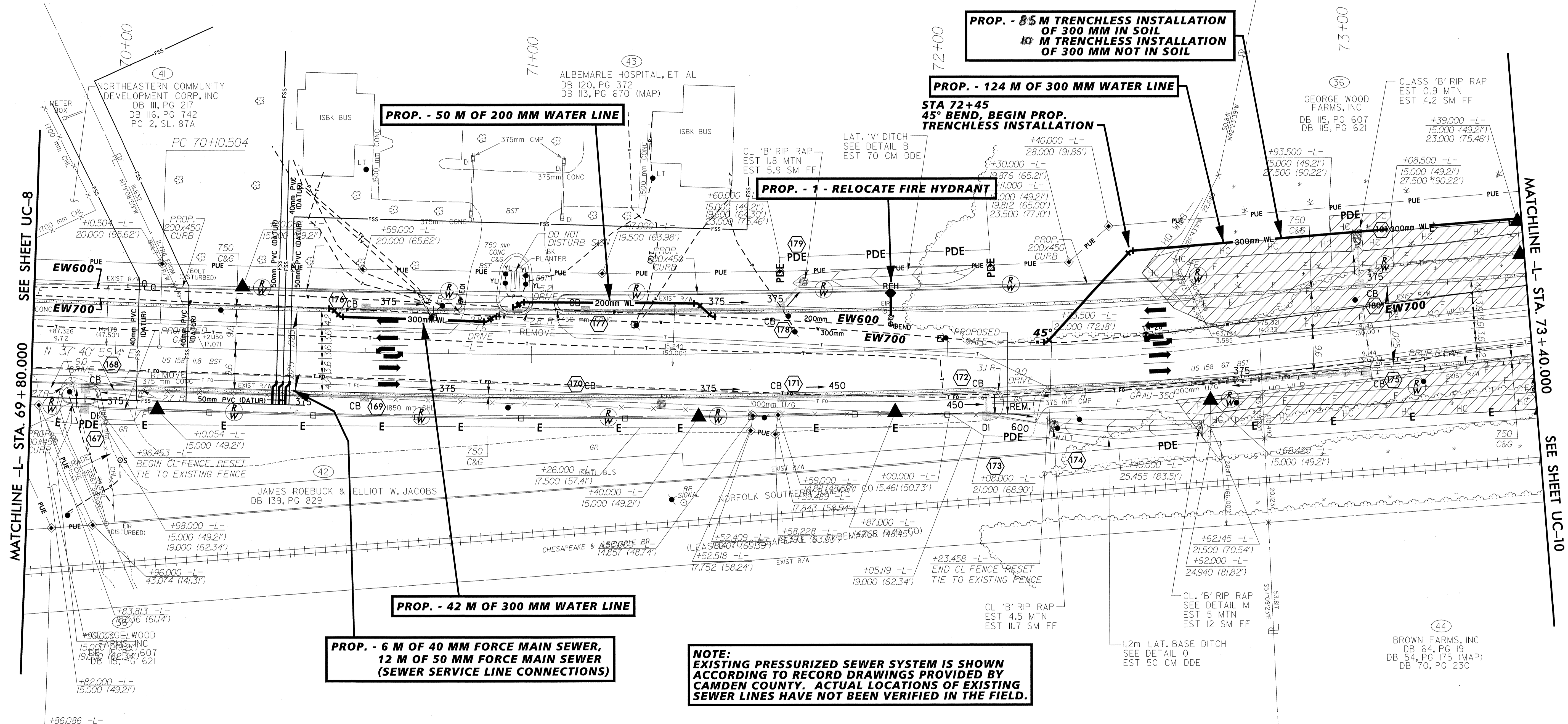
UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6416 OLD PLANK ROAD
HIGH POINT, NC 27285
PHONE: (336) 886-4211 FAX: (336) 886-4458



PROJECT REFERENCE NO. R-2414B	SHEET NO. UC-9
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



UTILITY CONSTRUCTION



PROP. - 50 M OF 200 MM WATER LINE

PROP. - 85 M TRENCHLESS INSTALLATION OF 300 MM IN SOIL
10 M TRENCHLESS INSTALLATION OF 300 MM NOT IN SOIL

PROP. - 124 M OF 300 MM WATER LINE

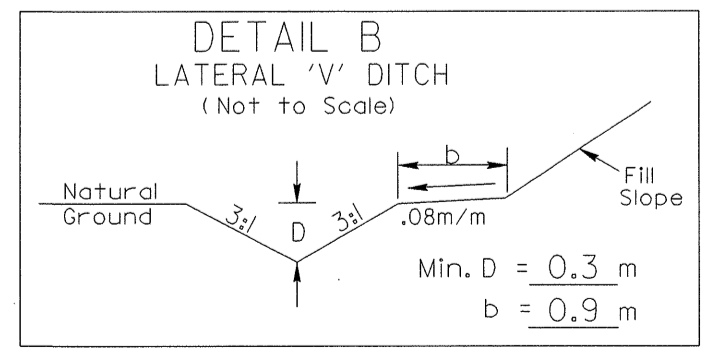
STA 72+45
45° BEND, BEGIN PROP. TRENCHLESS INSTALLATION

PROP. - 1 - RELOCATE FIRE HYDRANT

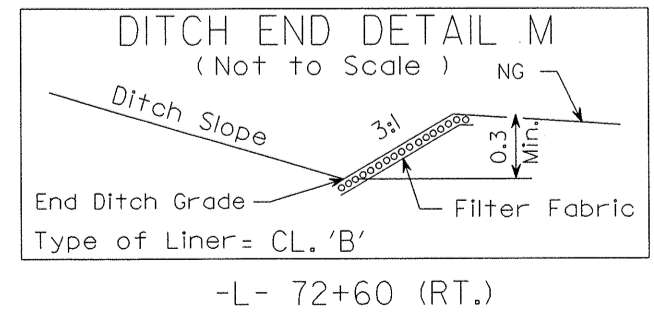
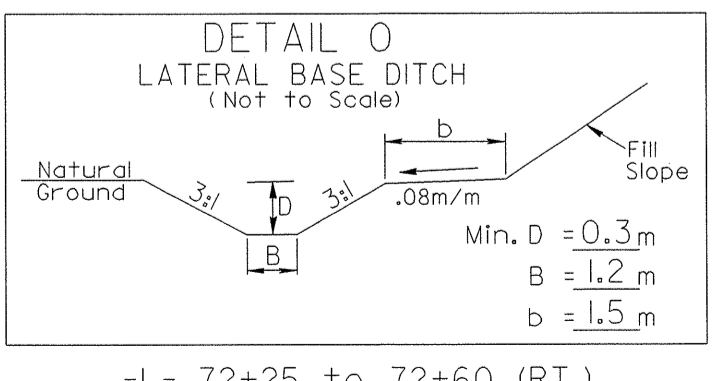
PROP. - 42 M OF 300 MM WATER LINE

PROP. - 6 M OF 40 MM FORCE MAIN SEWER,
12 M OF 50 MM FORCE MAIN SEWER
(SEWER SERVICE LINE CONNECTIONS)

NOTE:
EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.



-L-
 PI Sta 72+27.319
 $\Delta = 8^{\circ} 51' 20.1''$ (LT)
 L = 432.766
 T = 216.815
 R = 2,800.000
 SE = NC
 DS = 80 KM/H



125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

SEE SHEET UC-8

MATCHLINE -L- STA. 69 + 80.000

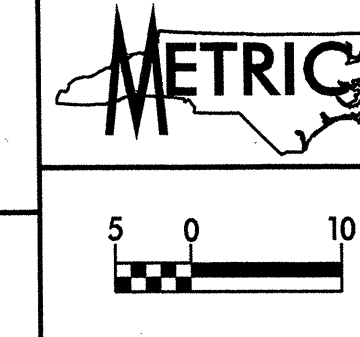
MATCHLINE -L- STA. 73 + 40.000

SEE SHEET UC-10

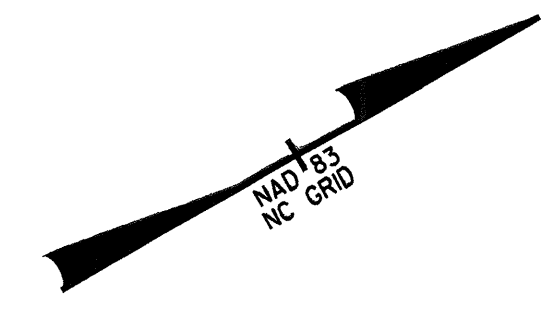
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
8416 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 888-4821 FAX: (336) 888-4468



PROJECT REFERENCE NO. R-2414B	SHEET NO. UC-10
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



PROP. - 74 M TRENCHLESS INSTALLATION OF 300 MM IN SOIL & 8 M TRENCHLESS INSTALLATION OF 300 MM NOT IN SOIL

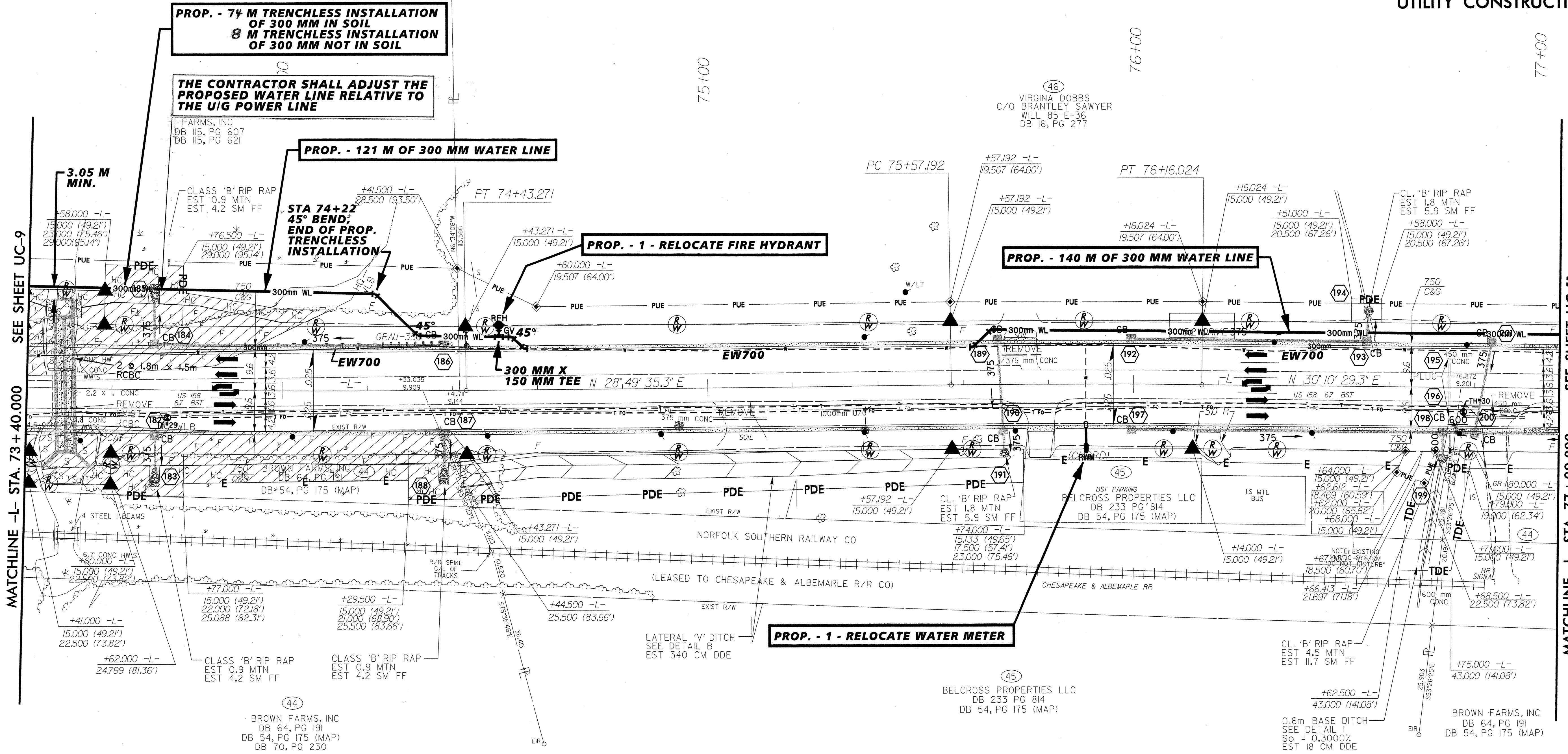
THE CONTRACTOR SHALL ADJUST THE PROPOSED WATER LINE RELATIVE TO THE UIG POWER LINE

PROP. - 121 M OF 300 MM WATER LINE

PROP. - 1 - RELOCATE FIRE HYDRANT

PROP. - 140 M OF 300 MM WATER LINE

PROP. - 1 - RELOCATE WATER METER



SEE SHEET UC-9

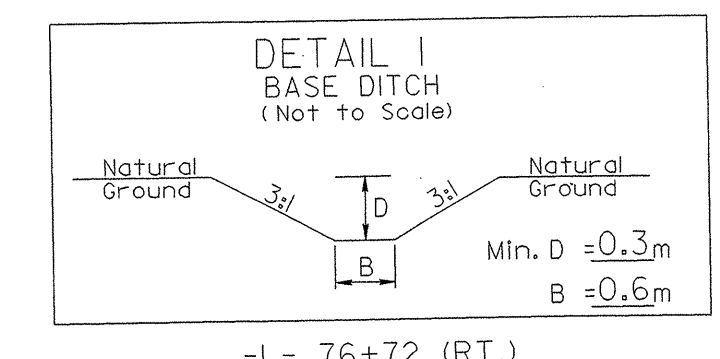
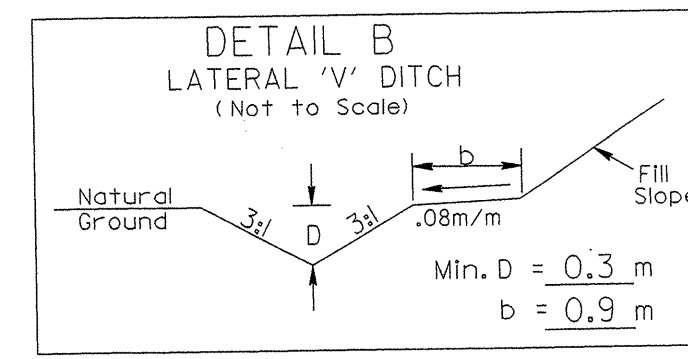
SEE SHEET UC-11

MATCHLINE -L- STA. 73+40.000

MATCHLINE -L- STA. 77+00.000

-L-
 PI Sta 72+27.319
 $\Delta = 8' 51'' 20.1''$ (LT)
 L = 432.766
 T = 216.815
 R = 2,800.000
 SE = NC
 DS = 80 KM/H

-L-
 PI Sta 75+86.610
 $\Delta = 1' 20'' 54.0''$ (RT)
 L = 58.832
 T = 29.418
 R = 2,500.000
 SE = NC
 DS = 80 KM/H

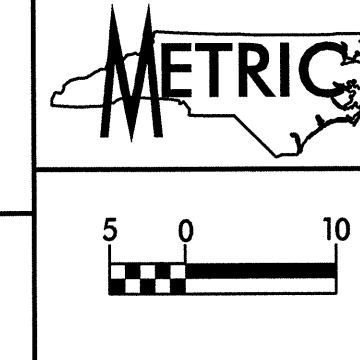


125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT

REVISIONS

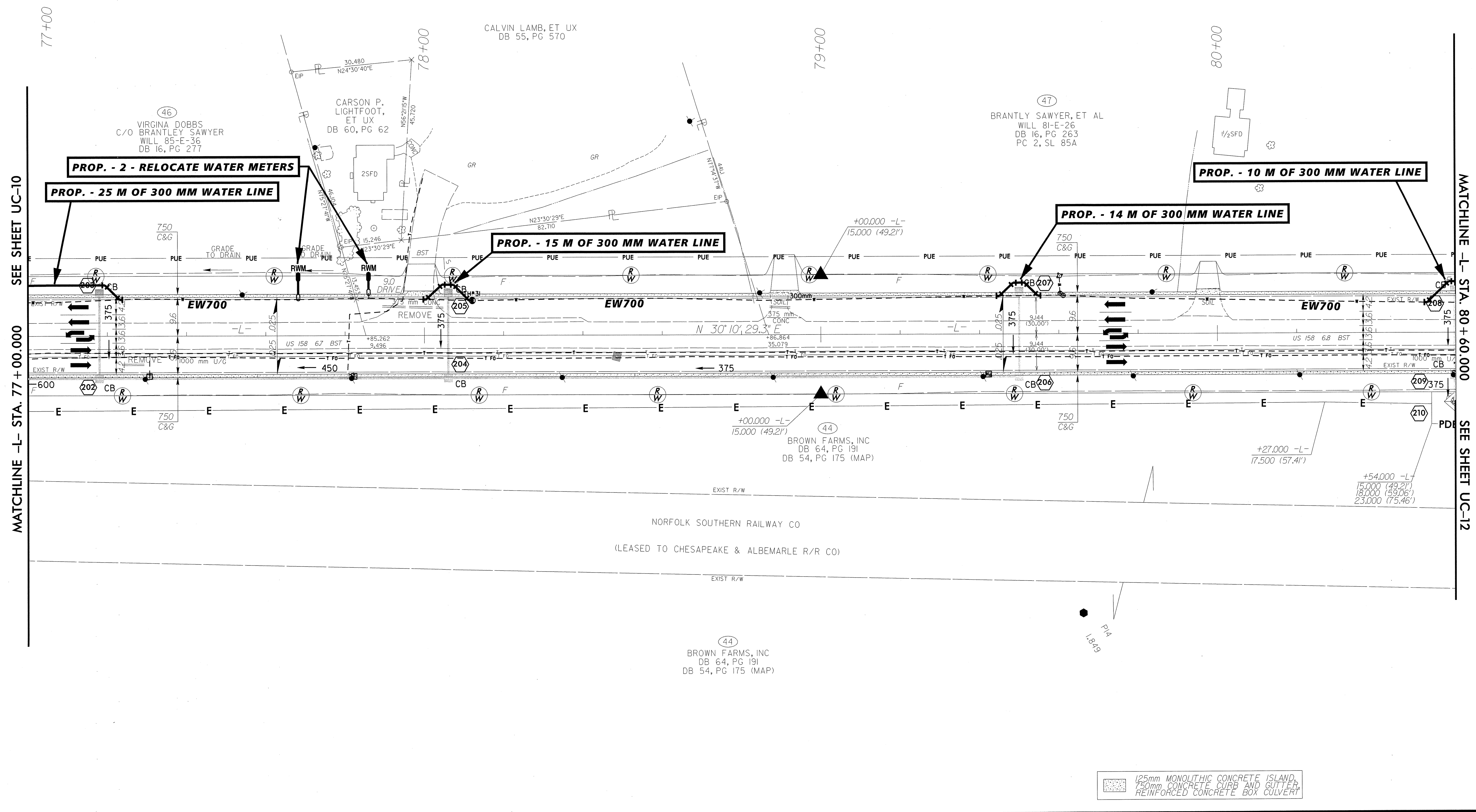
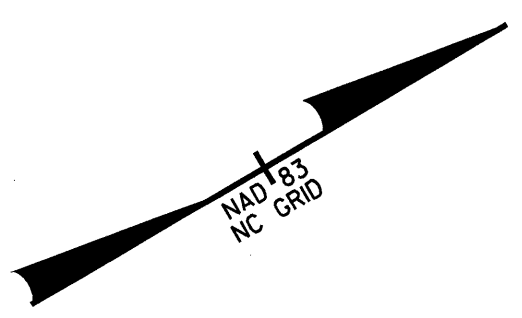


UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4221 FAX: (336) 886-4458



PROJECT REFERENCE NO. R-2414B	SHEET NO. UC-11
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



SEE SHEET UC-10
MATCHLINE -L- STA. 77 + 00.000

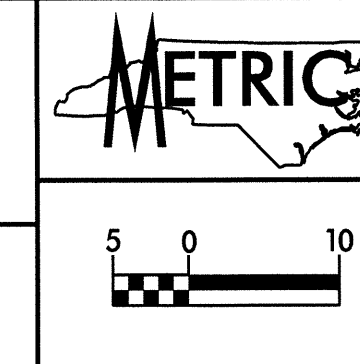
MATCHLINE -L- STA. 80 + 60.000
SEE SHEET UC-12

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

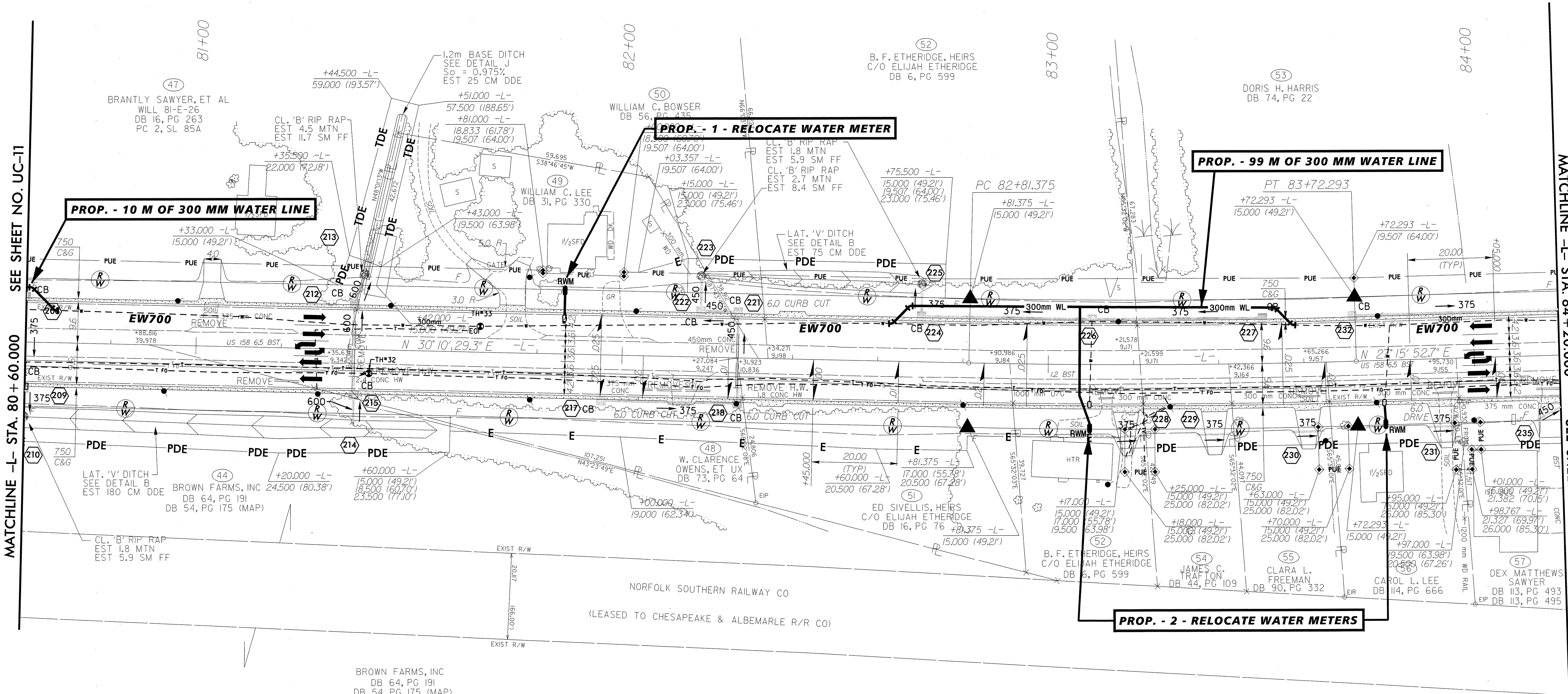
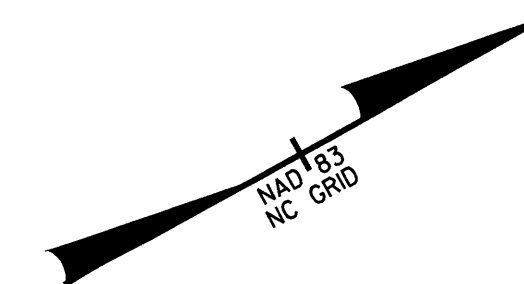
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4621 FAX: (336) 886-4456

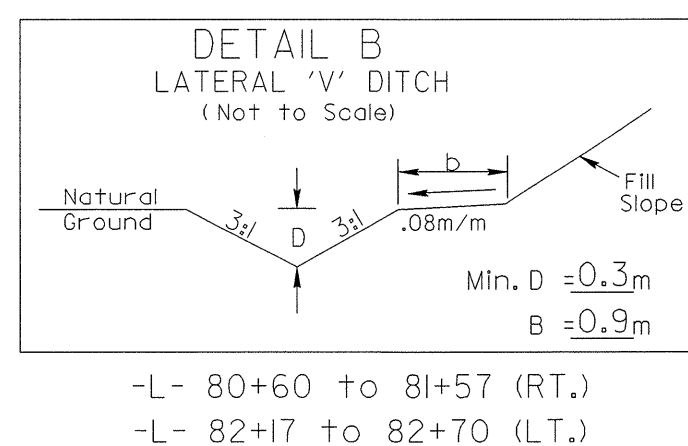
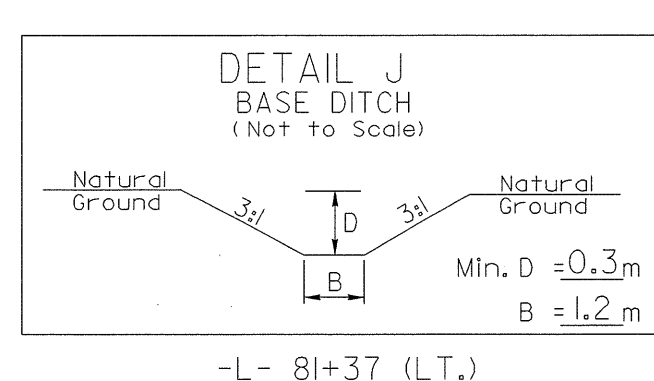


PROJECT REFERENCE NO.	R-2414B	SHEET NO.	UC-12
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC.	PHONE: (919) 250-4128	UTILITY CONSTRUCTION PLANS ONLY	
	FAX: (919) 250-4119		



SEE SHEET NO. UC-11
MATCHLINE -L- STA. 80 + 60.000

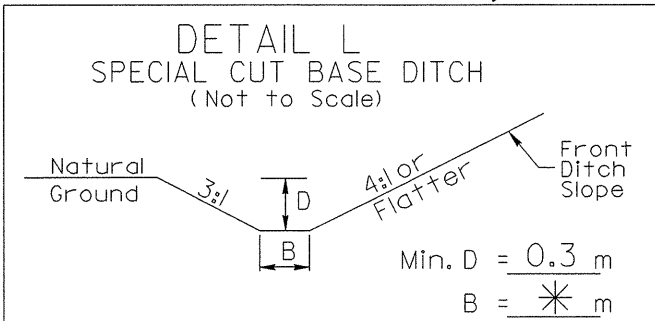
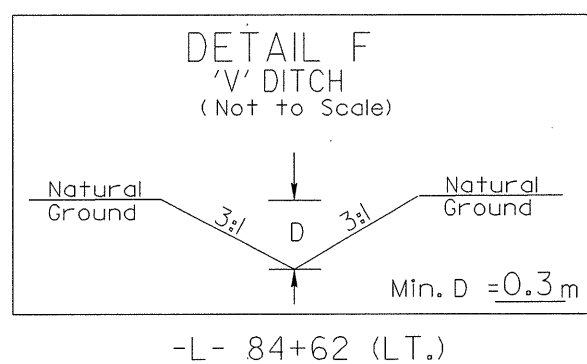
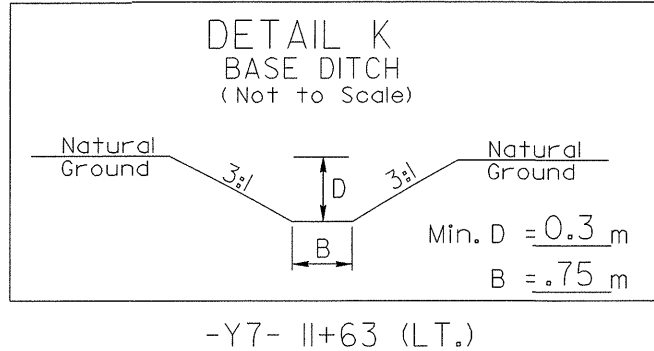
MATCHLINE -L- STA. 84 + 20.000
SEE SHEET UC-13



-L-
PI Sta 83+26.844
 $\Delta = 2^\circ 54' 36.6''$ (LT)
L = 90.918
T = 45.469
R = 1,790.000
SE = 0.025
R'OFF = 50.625
DS = 80 KM/H

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

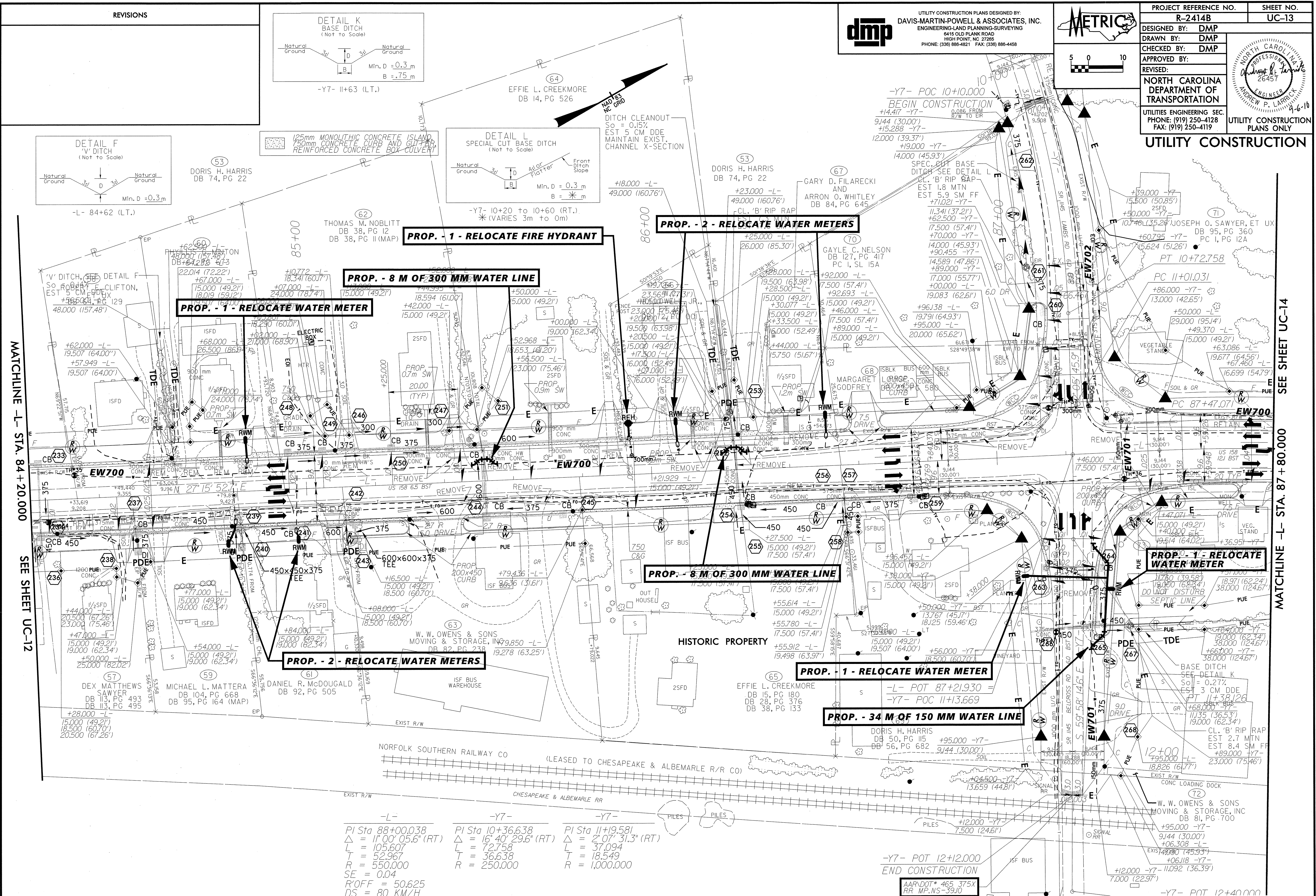
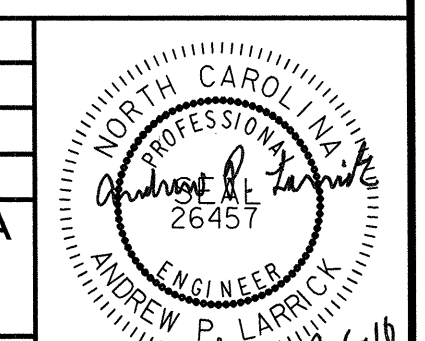
REVISIONS



dmp DAVIS-MARTIN-POWELL & ASSOCIATES, INC. ENGINEERING-LAND PLANNING-SURVEYING 8415 OLD PLANK ROAD HIGH POINT, NC 27285 PHONE: (336) 986-4221 FAX: (336) 986-4458



PROJECT REFERENCE NO. R-2414B SHEET NO. UC-13
DESIGNED BY: DMP
DRAWN BY: DMP
CHECKED BY: DMP
APPROVED BY:
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119
UTILITY CONSTRUCTION PLANS ONLY



MATCHLINE -L- STA. 84+20.000
SEE SHEET UC-12

SEE SHEET UC-14
MATCHLINE -L- STA. 87+80.000

-L-	-Y7-	-Y7-
PI Sta 88+00.038	PI Sta 10+36.638	PI Sta 11+19.581
$\Delta = 11' 00'' 05.6''$ (RT)	$\Delta = 16' 40'' 29.6''$ (RT)	$\Delta = 2' 07'' 31.3''$ (RT)
L = 105.607	L = 72.758	L = 37.094
T = 52.967	T = 36.638	T = 18.549
R = 550.000	R = 250.000	R = 1,000.000
SE = 0.04		
R'OFF = 50.625		
DS = 80 KM/H		

-Y7- POT 12+12.000
END CONSTRUCTION

AARDOT* 465 375X
RR MP.NS-3910

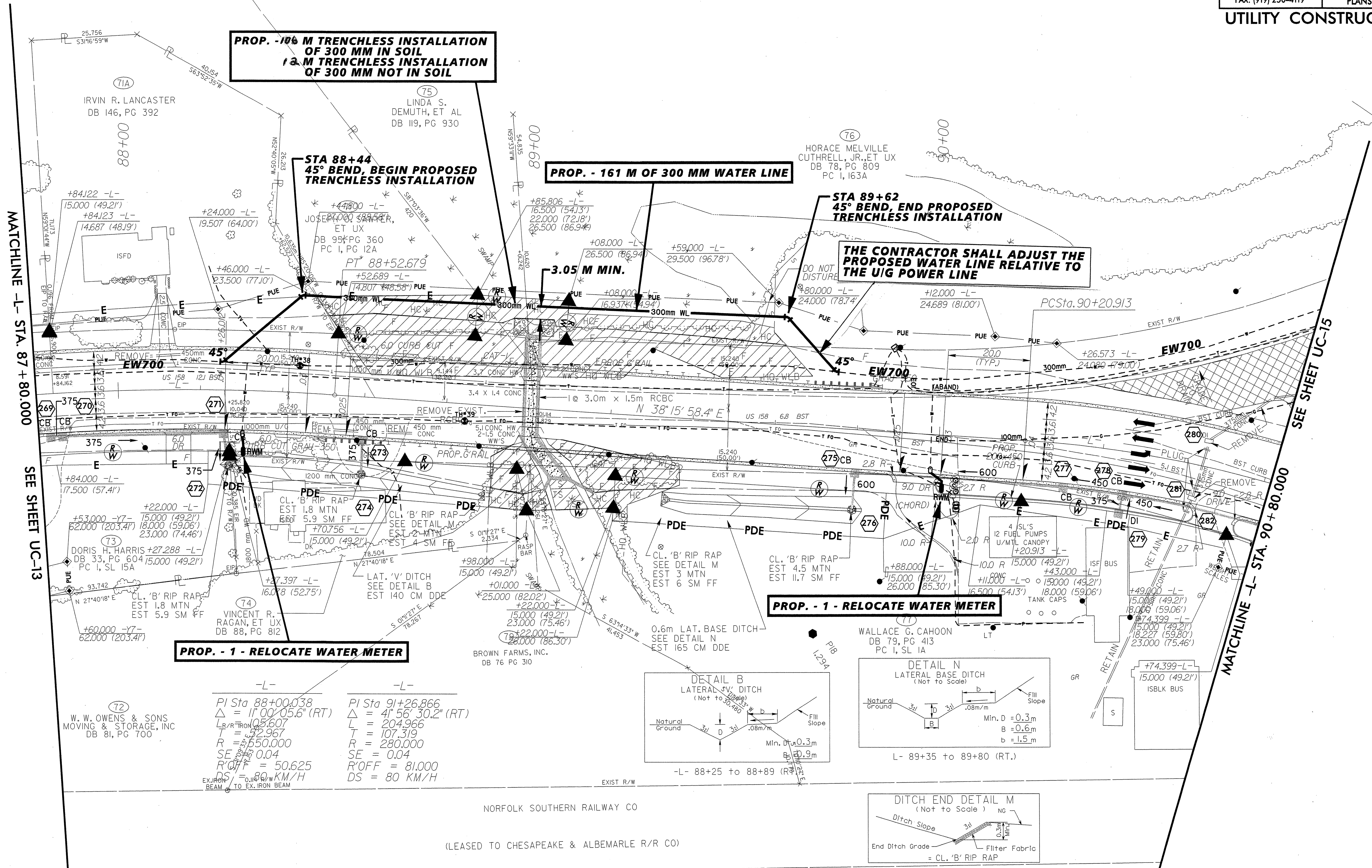
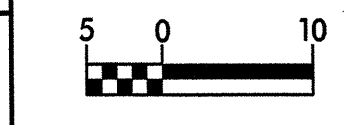
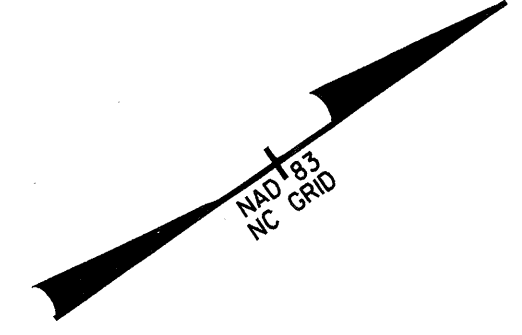
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458



PROJECT REFERENCE NO.	R-2414B	SHEET NO.	UC-14
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:	DMP		
REVISER:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY			



MATCHLINE -L- STA. 87 + 80.000
SEE SHEET UC-13

SEE SHEET UC-15
MATCHLINE -L- STA. 90 + 80.000

(72)
W. W. OWENS & SONS
MOVING & STORAGE, INC
DB 81, PG 700

-L-	-L-
PI Sta 88+00.038	PI Sta 91+26.866
$\Delta = 11^{\circ} 00' 05.6''$ (RT)	$\Delta = 41^{\circ} 56' 30.2''$ (RT)
L/R FROM 105.607	L = 204.966
T = 32.967	R = 107.319
R = 350.000	R = 280.000
SE = 0.04	SE = 0.04
R/OFF = 50.625	R/OFF = 81.000
DS = 80 KM/H	DS = 80 KM/H

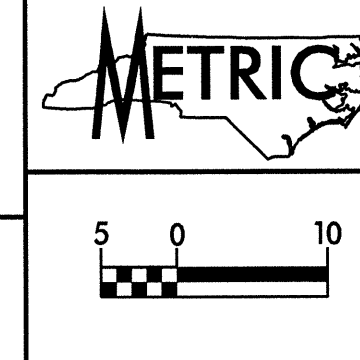
NORFOLK SOUTHERN RAILWAY CO
(LEASED TO CHESAPEAKE & ALBEMARLE R/R CO)

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

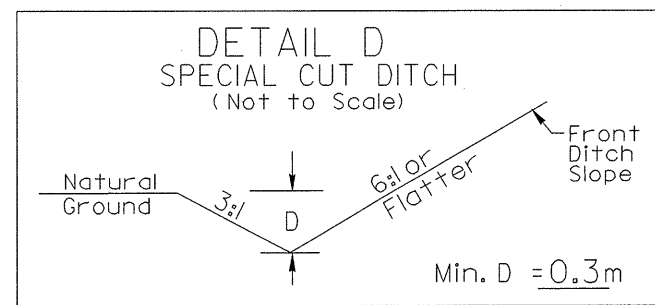
REVISIONS



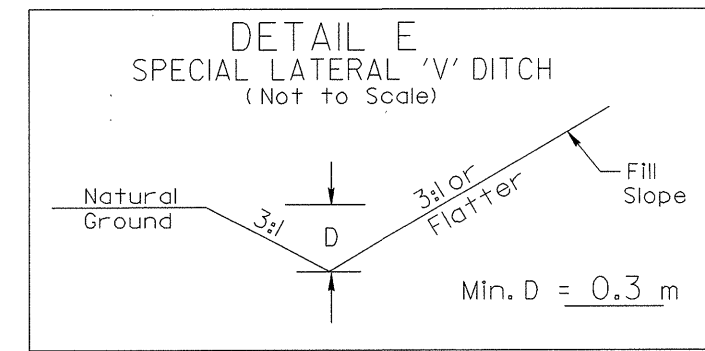
UTILITY CONSTRUCTION PLANS DESIGNED BY:
 DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27265
 PHONE: (336) 886-4821 FAX: (336) 886-4458



PROJECT REFERENCE NO.	R-2414B	SHEET NO.	UC-16
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY			

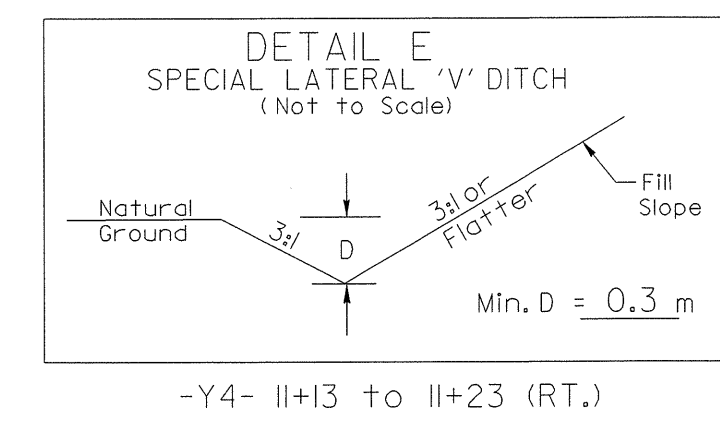
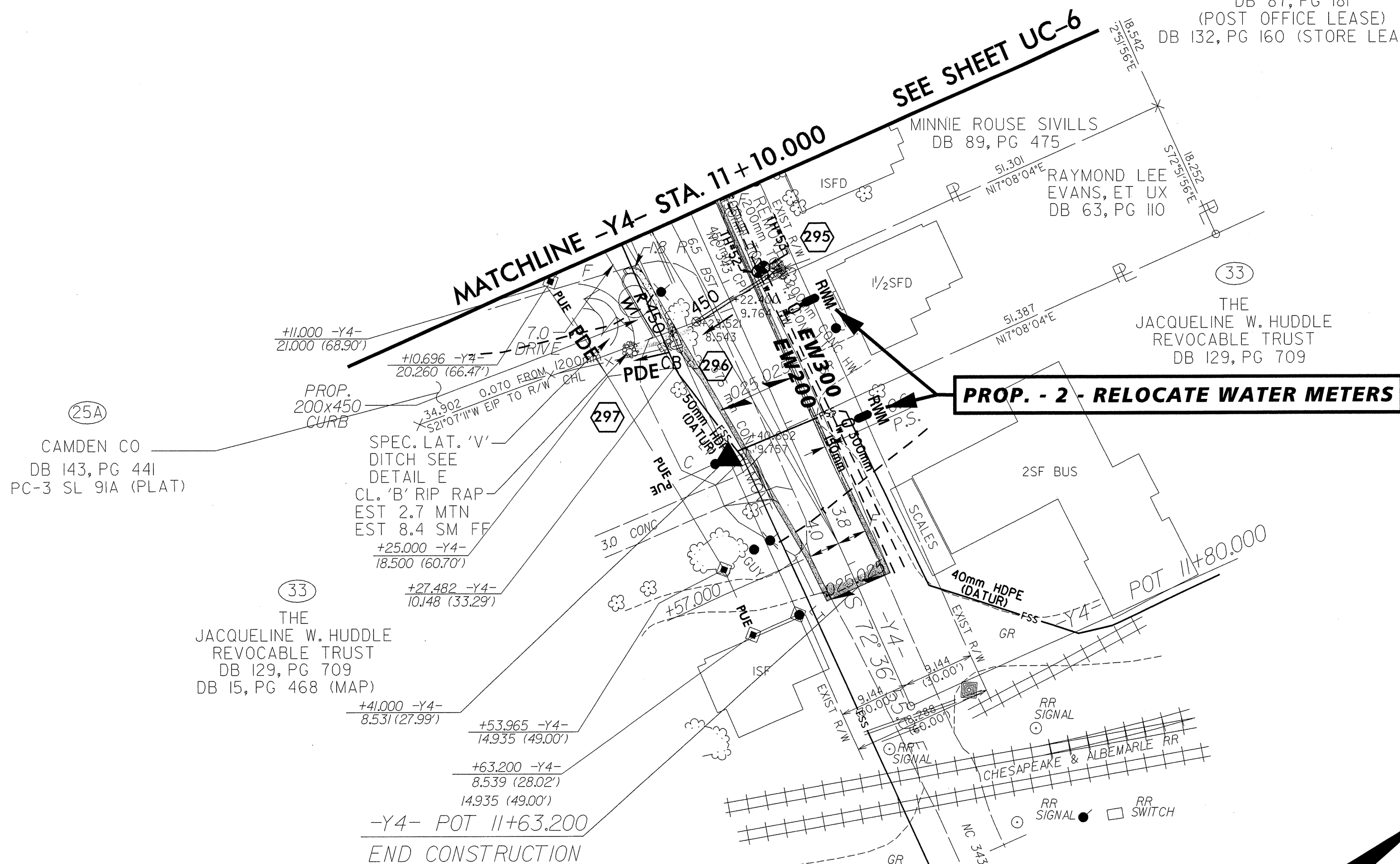
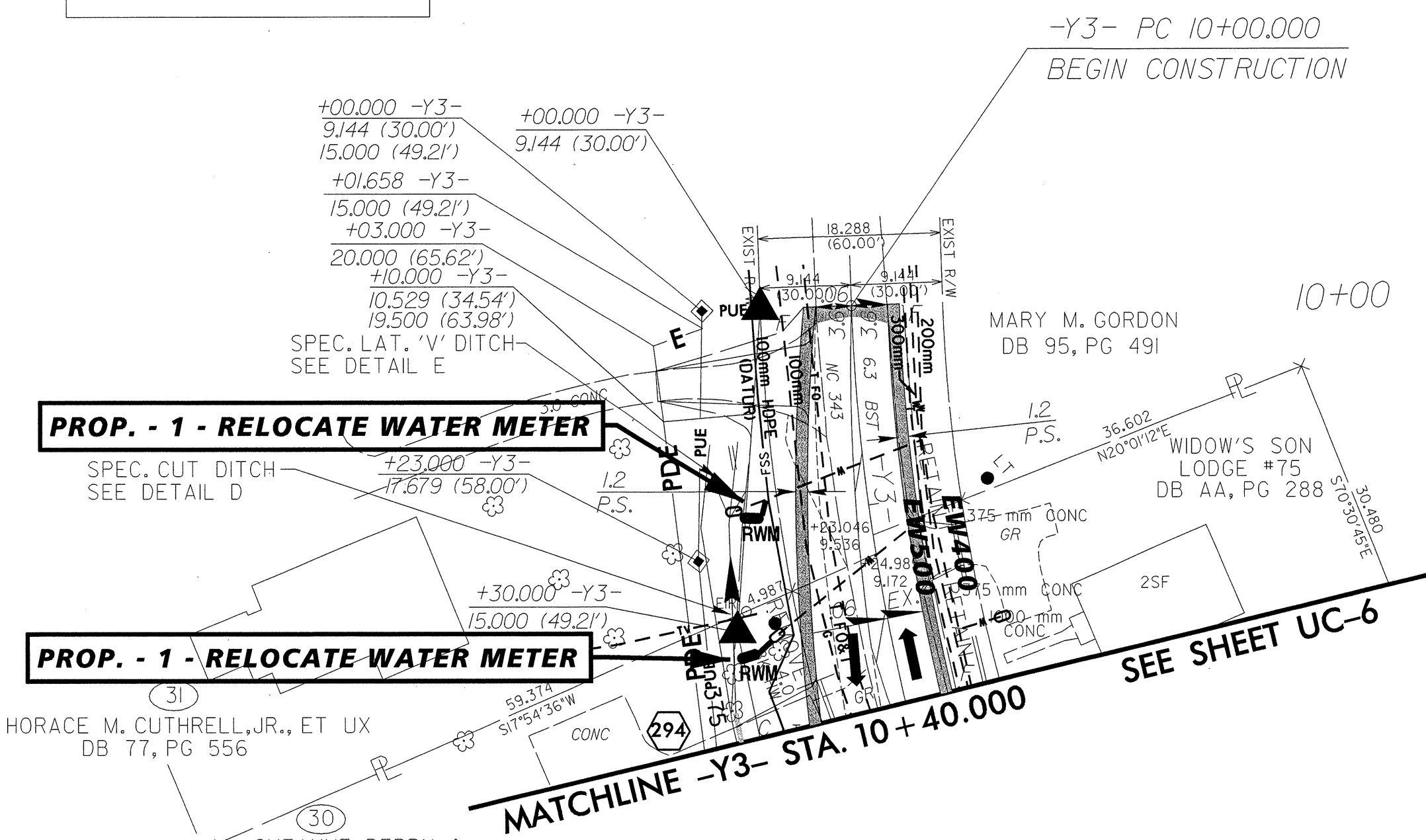
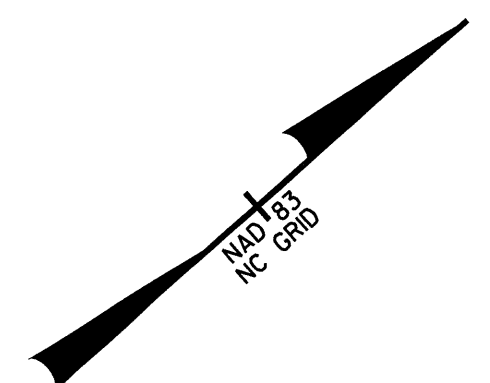


-Y3- 10+20 to 10+36 (RT.)



-Y3- 10+17 to 10+20 (RT.)

-Y3-
 PI Sta 10+39.147
 $\Delta = 22^\circ 21' 27.9" (LT)$
 $L = 77.299$
 $T = 39.147$
 $R = 198.093$
 $BK = S 50^\circ 33' 28.3" E$



-Y4- 11+13 to 11+23 (RT.)

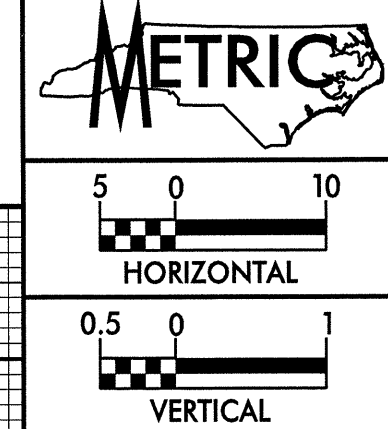
125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

TRENCHLESS INSTALLATION NOTES (APPLIES TO ALL PROFILES):

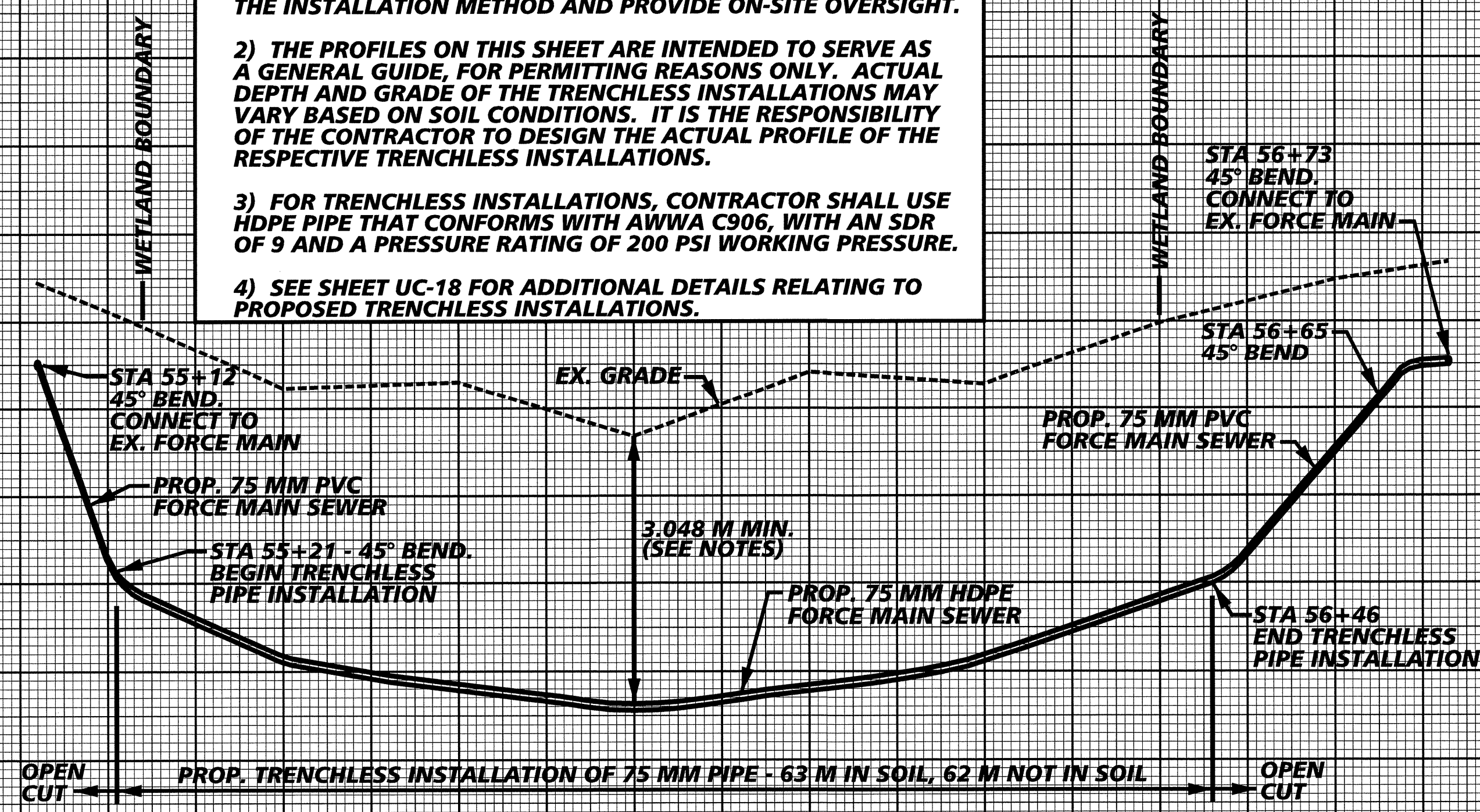
- 1) THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING THE TRENCHLESS INSTALLATION. NO DAMAGE IS ALLOWED TO THE WETLAND OR STREAM BY THE TRENCHLESS INSTALLATION. THE CONTRACTOR'S ENGINEER SHALL DESIGN THE INSTALLATION METHOD AND PROVIDE ON-SITE OVERSIGHT.
- 2) THE PROFILES ON THIS SHEET ARE INTENDED TO SERVE AS A GENERAL GUIDE, FOR PERMITTING REASONS ONLY. ACTUAL DEPTH AND GRADE OF THE TRENCHLESS INSTALLATIONS MAY VARY BASED ON SOIL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN THE ACTUAL PROFILE OF THE RESPECTIVE TRENCHLESS INSTALLATIONS.
- 3) FOR TRENCHLESS INSTALLATIONS, CONTRACTOR SHALL USE HDPE PIPE THAT CONFORMS WITH AWWA C906, WITH AN SDR OF 9 AND A PRESSURE RATING OF 200 PSI WORKING PRESSURE.
- 4) SEE SHEET UC-18 FOR ADDITIONAL DETAILS RELATING TO PROPOSED TRENCHLESS INSTALLATIONS.



UTILITY CONSTRUCTION PLANS DESIGNED BY:
 DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27265
 PHONE: (336) 886-4821 FAX: (336) 886-4458

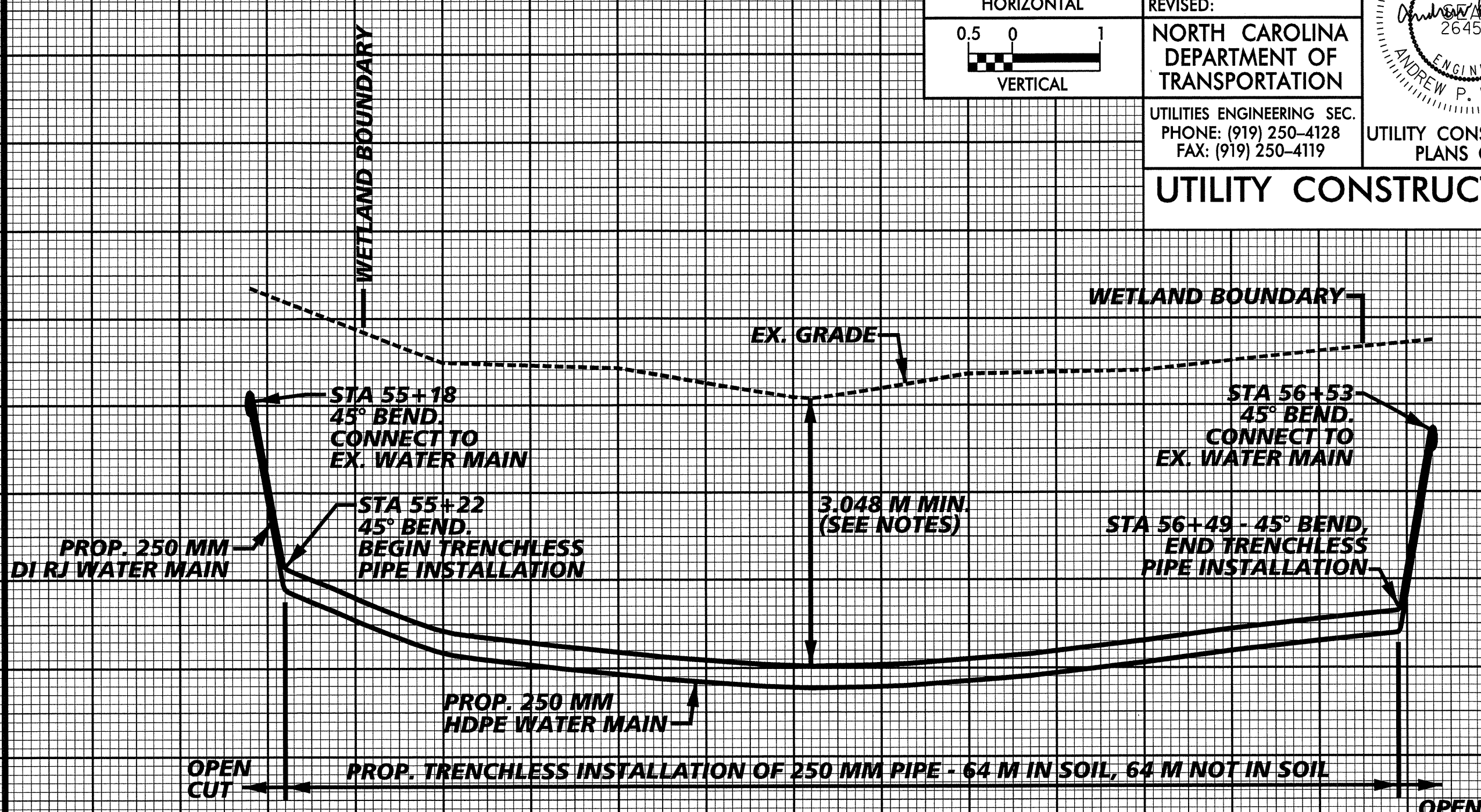


PROJECT REFERENCE NO. R-2414B	SHEET NO. UC-17
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119
UTILITY CONSTRUCTION	



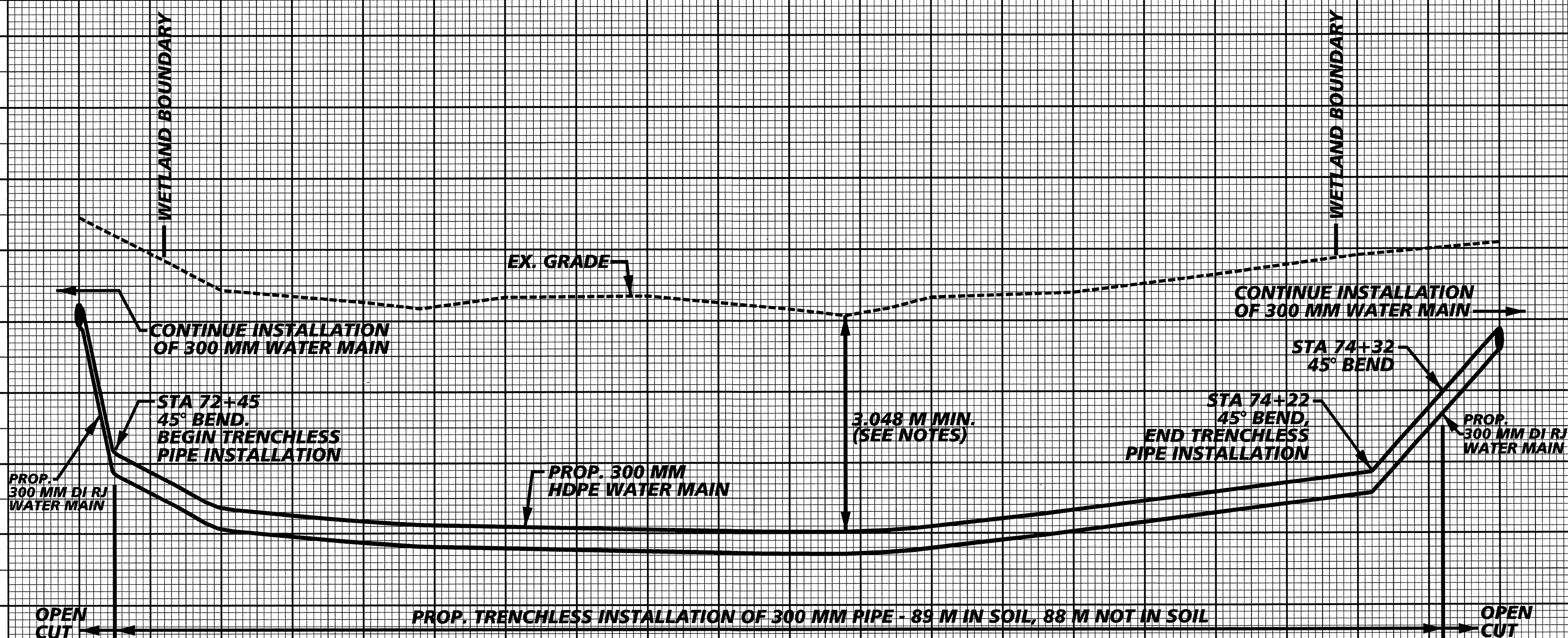
PROFILE FOR FORCE MAIN SEWER INSTALLATION NEAR PROPOSED BOX CULVERT AT -L- STA 55+80

55+20 55+40 55+60 55+80 56+00 56+20 56+40 56+60



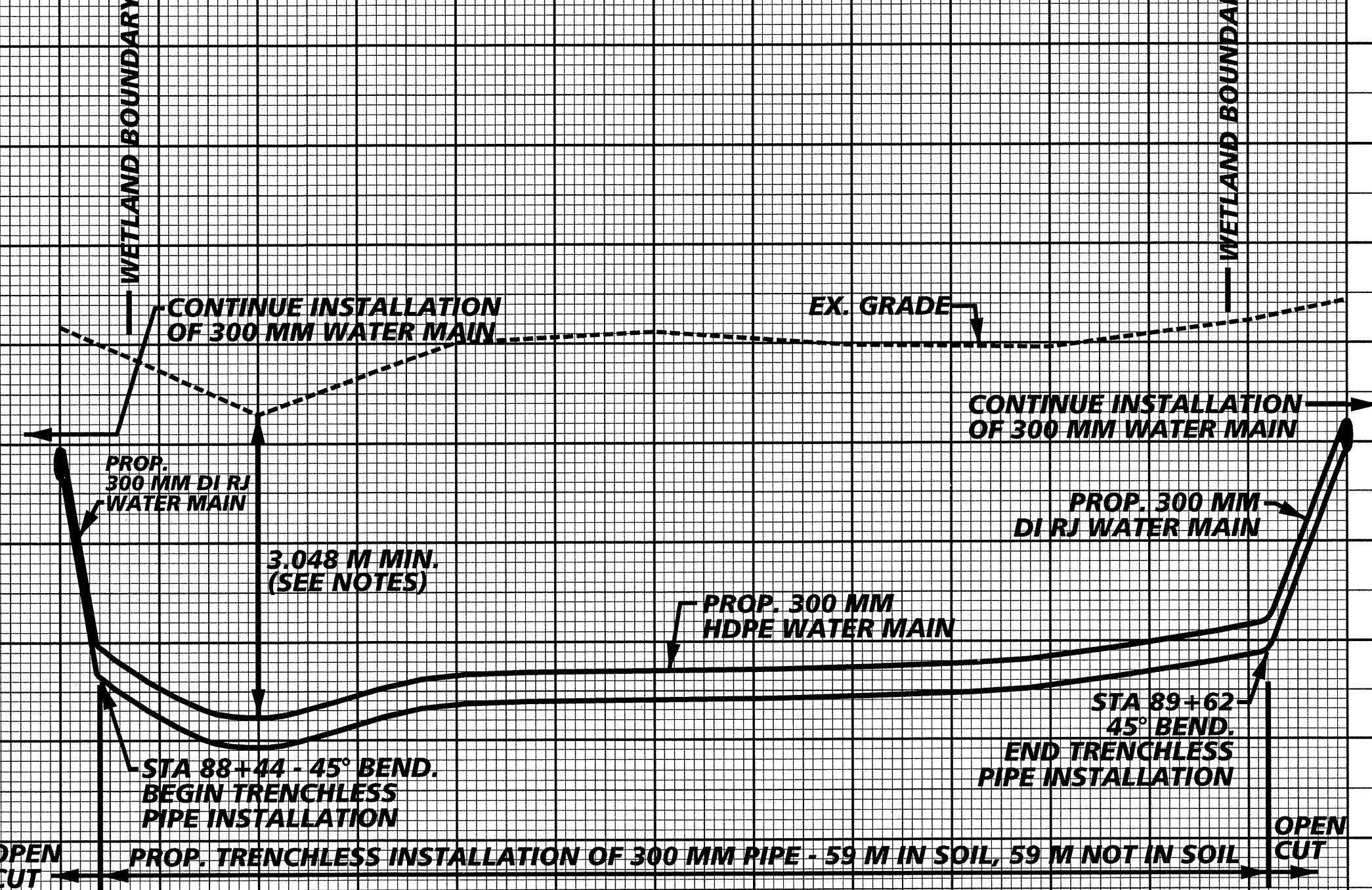
PROFILE FOR WATER MAIN INSTALLATION NEAR PROPOSED BOX CULVERT AT -L- STA 55+80

55+00 55+20 55+40 55+60 55+80 56+00 56+20 56+40 56+60



PROFILE FOR WATER MAIN INSTALLATION NEAR PROPOSED BOX CULVERT AT -L- STA 73+49

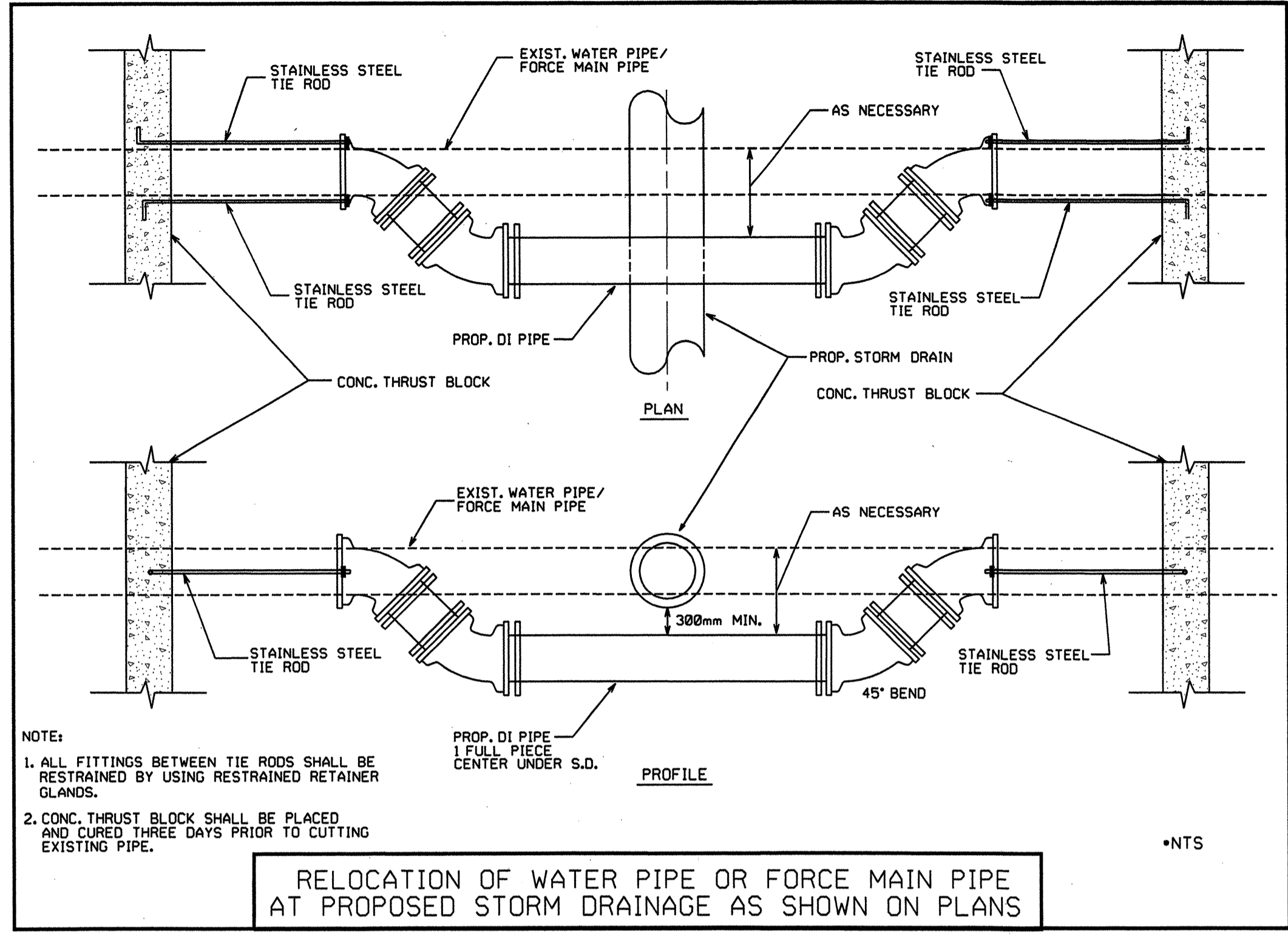
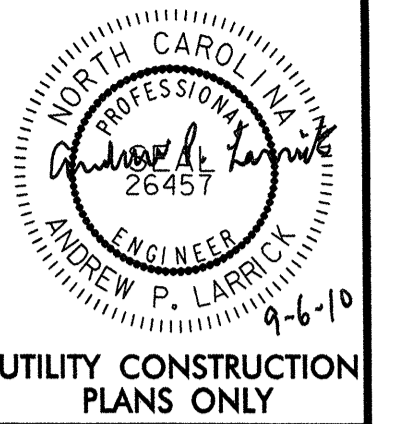
72+40 72+60 72+80 73+00 73+20 73+40 73+60 73+80 74+00 74+20 74+40



PROFILE FOR WATER MAIN INSTALLATION NEAR PROPOSED BOX CULVERT AT -L- STA 89+00

88+40 88+60 88+80 89+00 89+20 89+40 89+60

6/03/09
 *****SYSTEM*****
 *****REVISIONS*****
 *****DATE*****
 *****BY*****
 *****DESCRIPTION*****

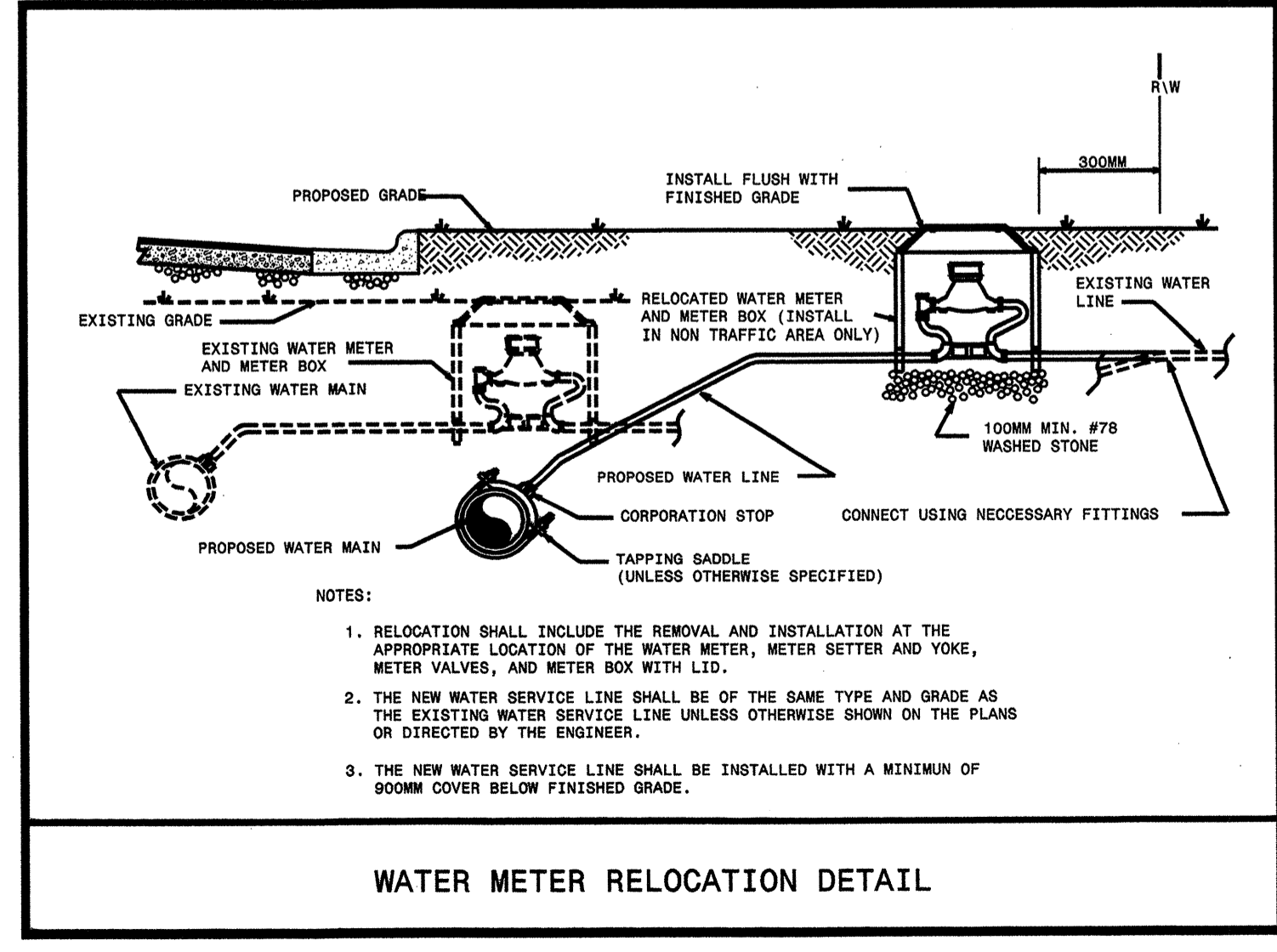
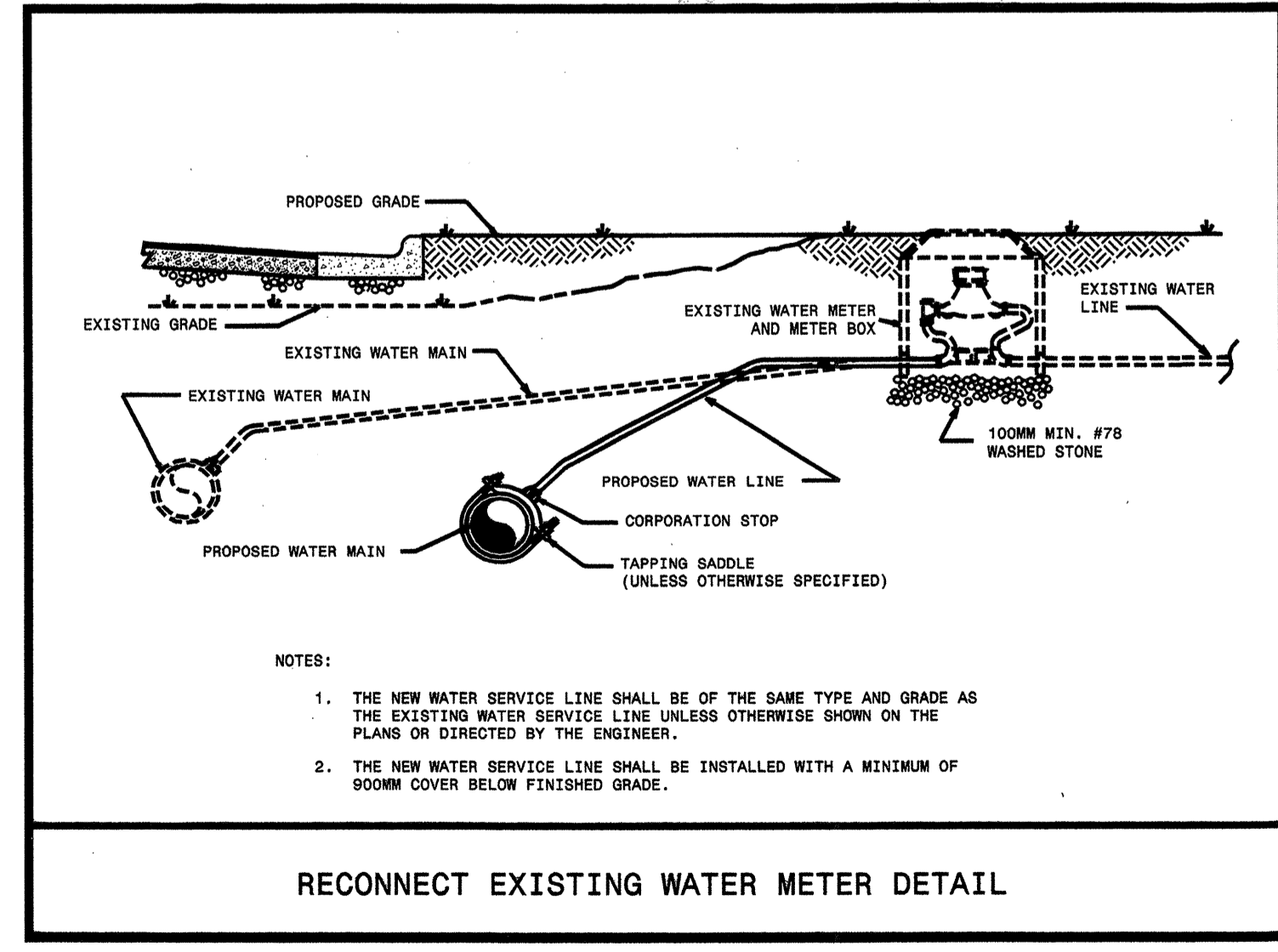
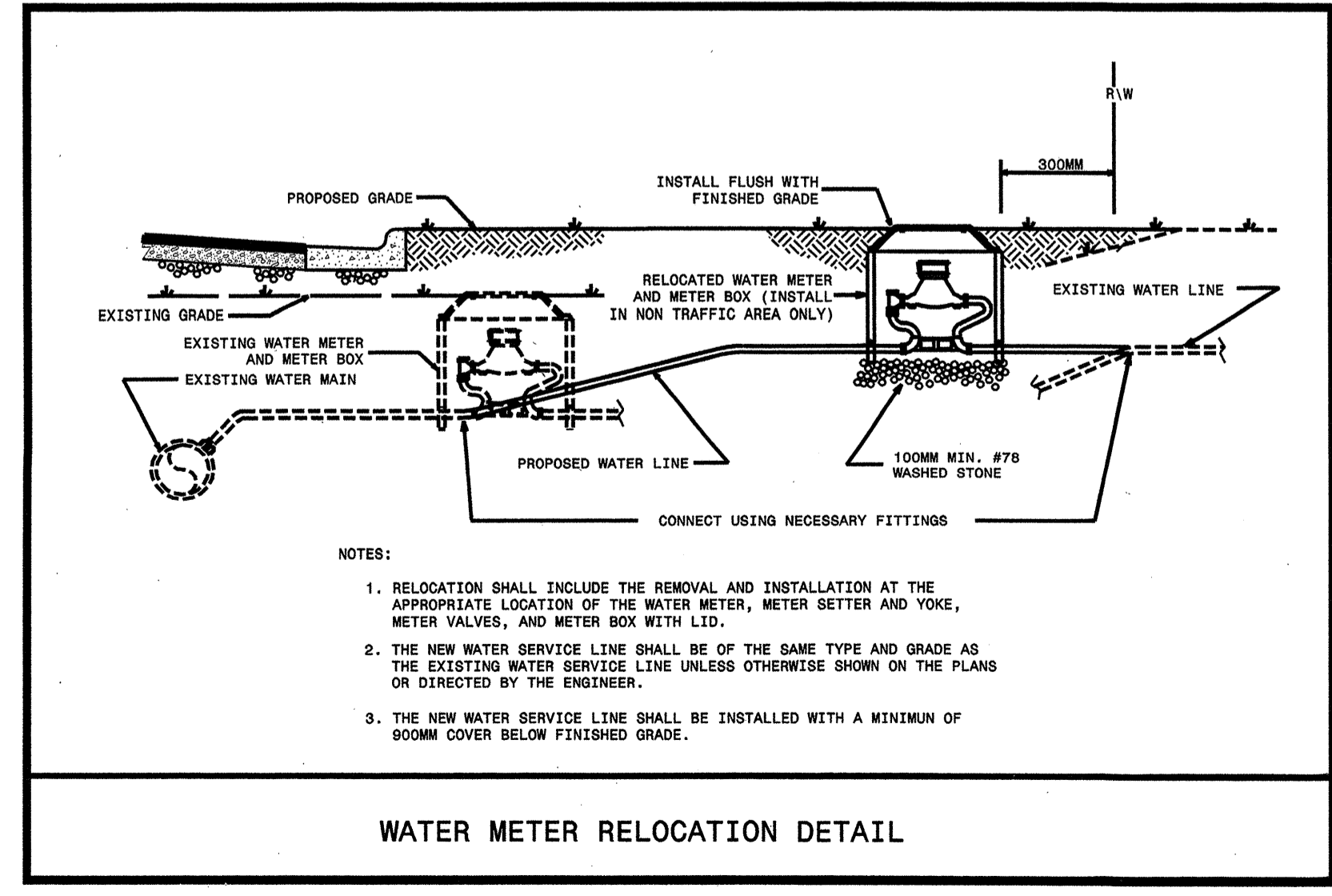
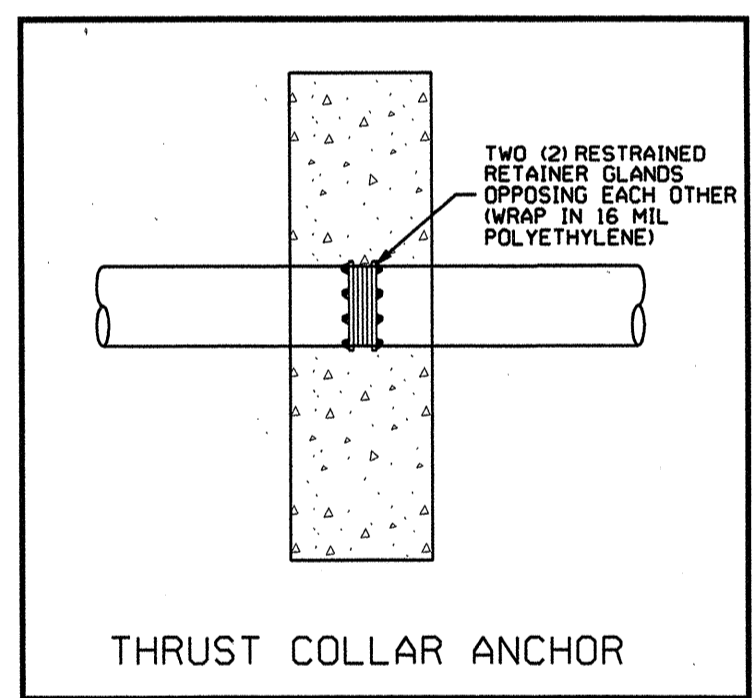
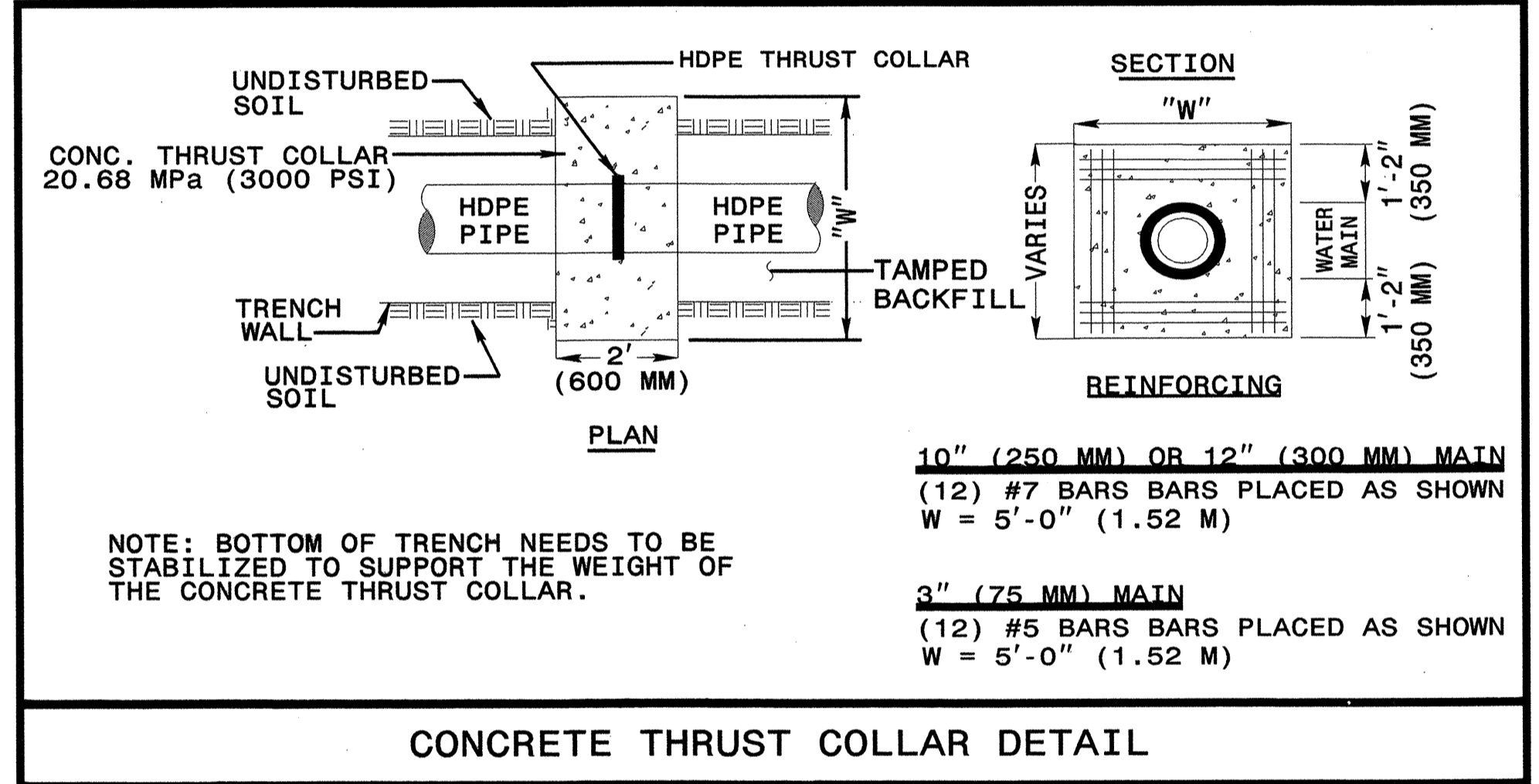
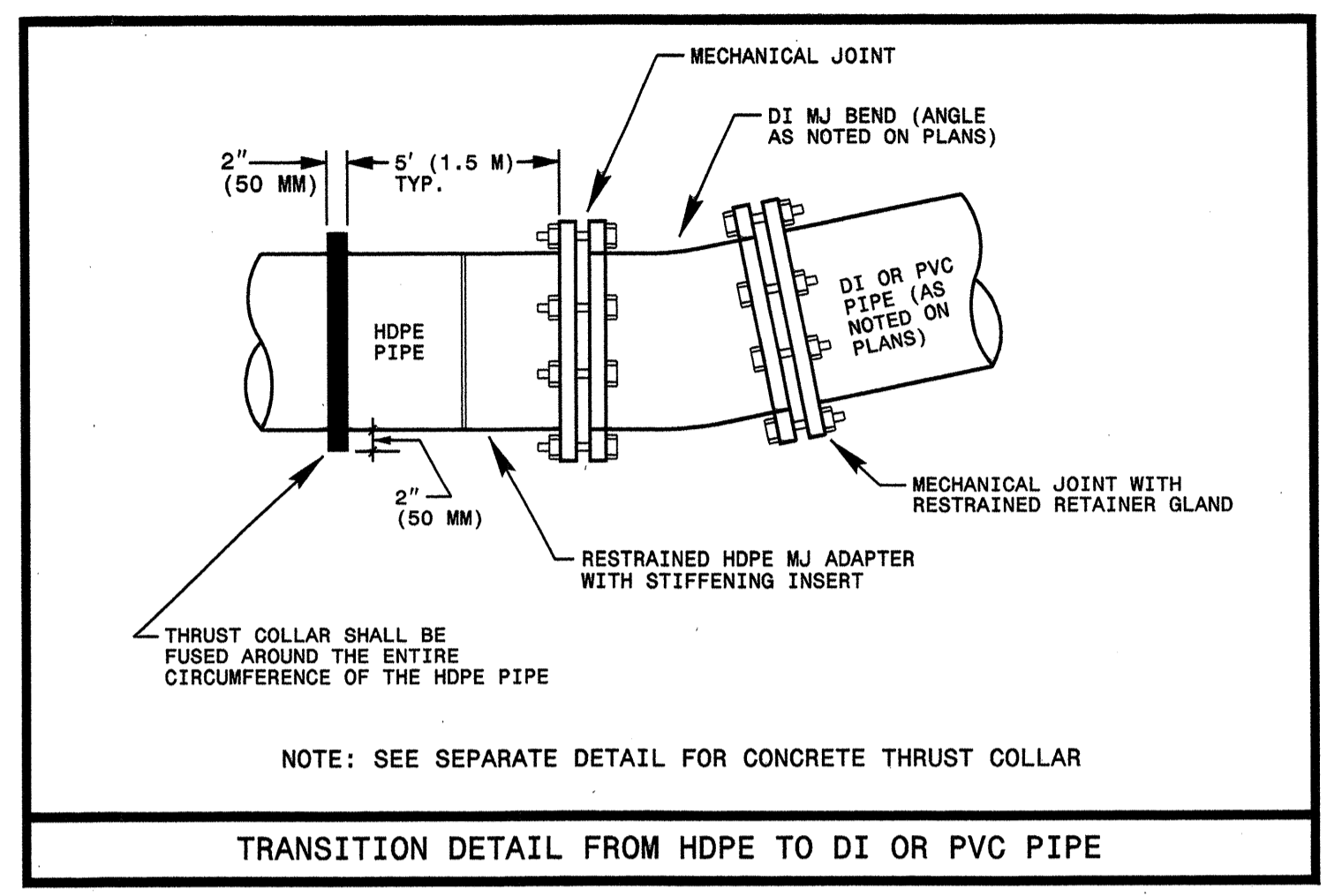
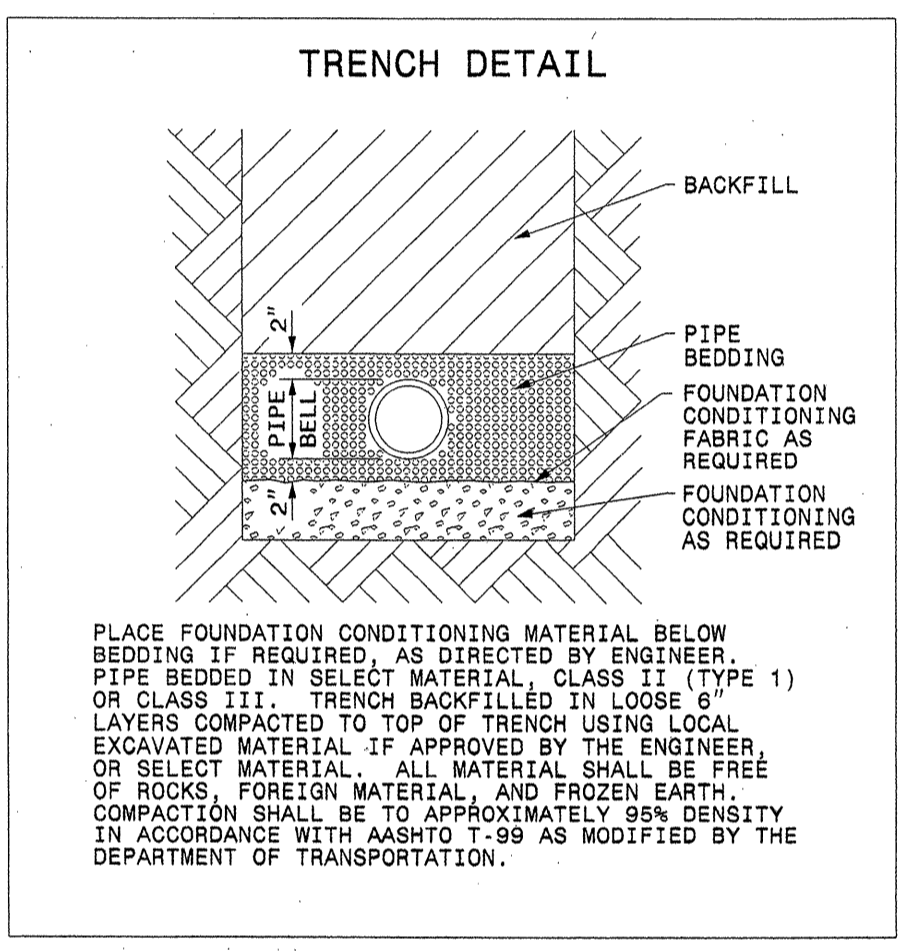


NOTE:
 1. ALL FITTINGS BETWEEN TIE RODS SHALL BE RESTRAINED BY USING RESTRAINED RETAINER GLANDS.
 2. CONC. THRUST BLOCK SHALL BE PLACED AND CURED THREE DAYS PRIOR TO CUTTING EXISTING PIPE.

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

MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (meters)	NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (meters)
100	0.71	500	1.12
150	0.76	600	1.22
200	0.81	750	1.37
250	0.86	900	1.57
300	0.91	1050	1.68
350	0.97	1200	1.83
400	1.02	1350	1.98
450	1.07		

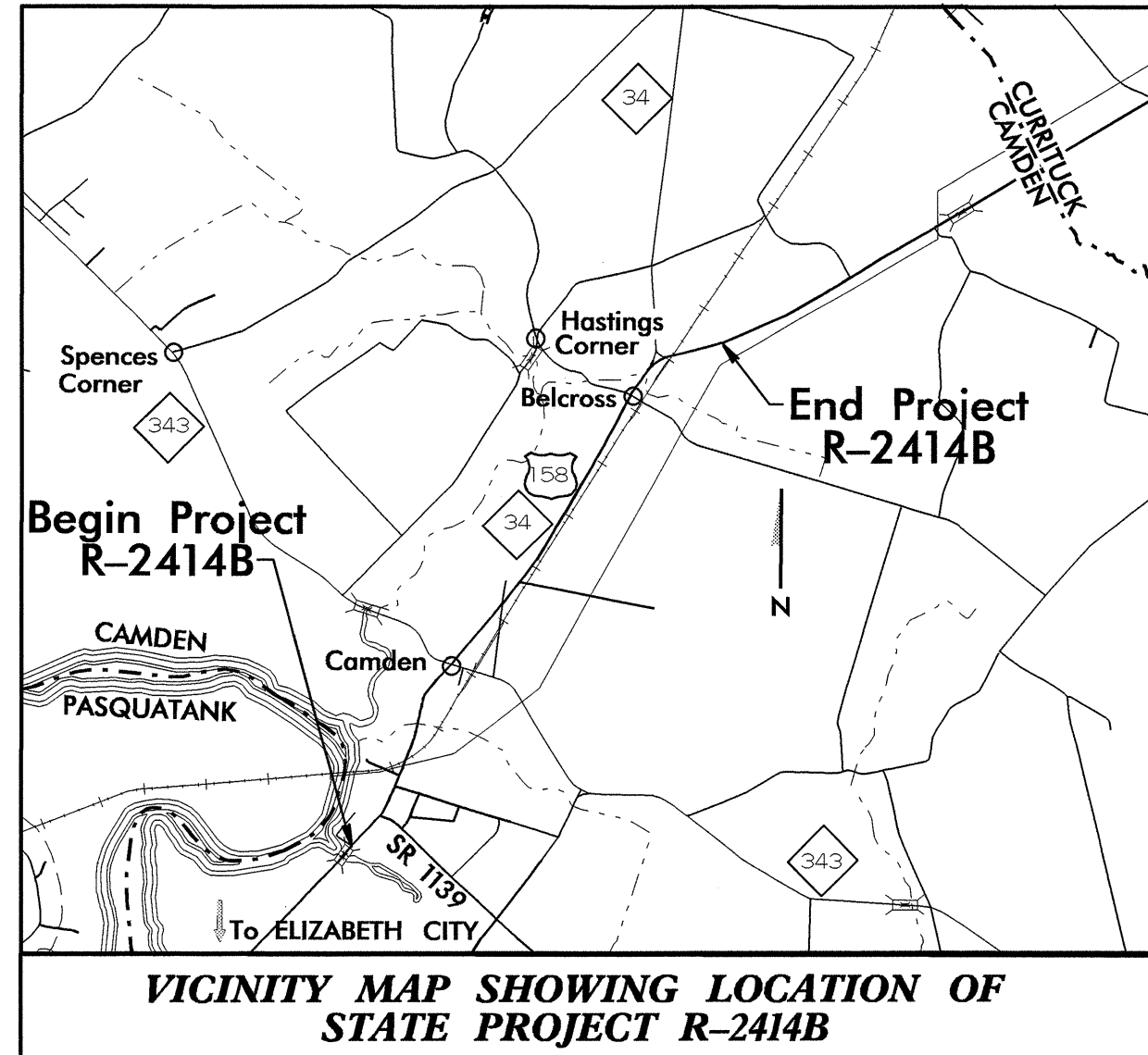


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09/08/99

TIP PROJECT: R-2414B

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY BY OTHERS PLANS
CAMDEN COUNTY

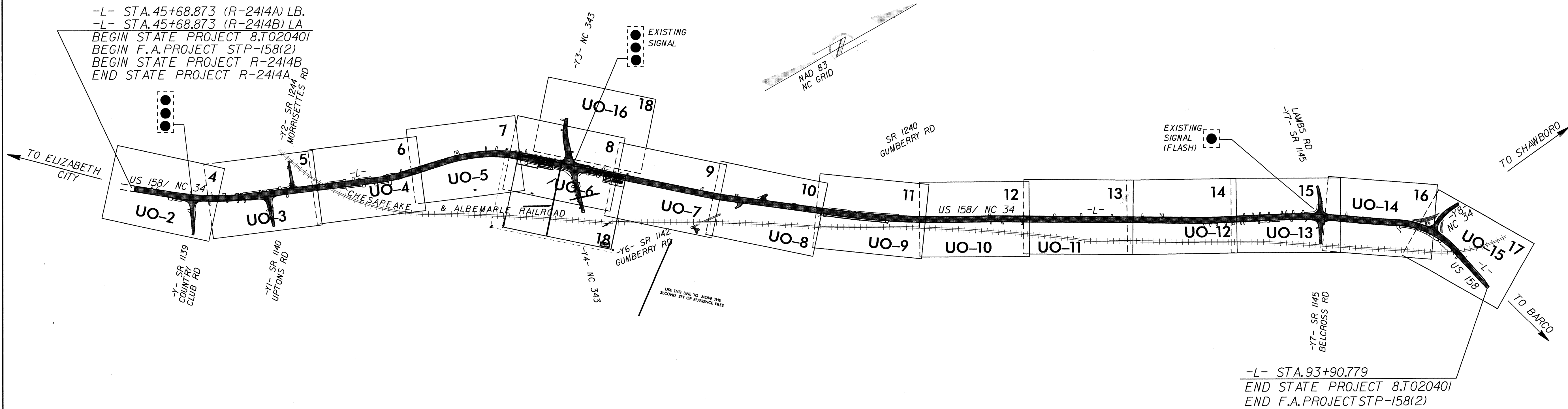
LOCATION: US 158-NC 34 FROM SOUTH OF SR 1257
TO EAST OF NC 34 IN BELCROSS

TYPE OF WORK: UTILITIES RELOCATION

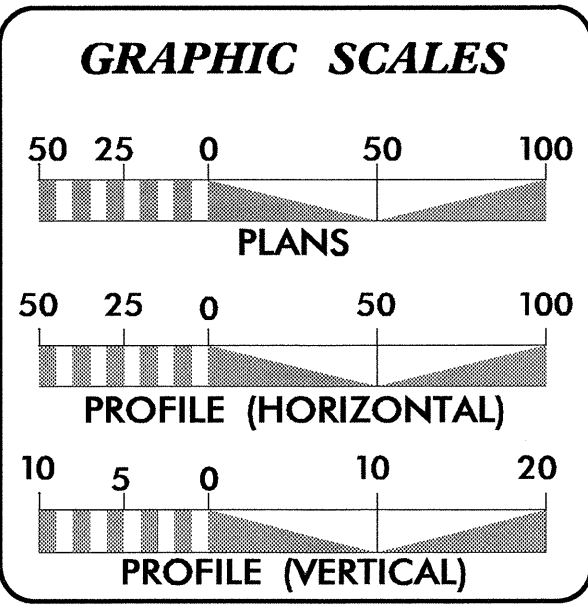
ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE SHOWN

T.I.P. NO.	SHEET NO.
R-2414B	UO-1

-L- STA. 45+68.873 (R-2414A) LB.
-L- STA. 45+68.873 (R-2414B) LA
BEGIN STATE PROJECT 8.T020401
BEGIN F.A. PROJECT STP-158(2)
BEGIN STATE PROJECT R-2414B
END STATE PROJECT R-2414A



-L- STA. 93+90.779
END STATE PROJECT 8.T020401
END F.A. PROJECT STP-158(2)



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-16	PLANS SHEETS

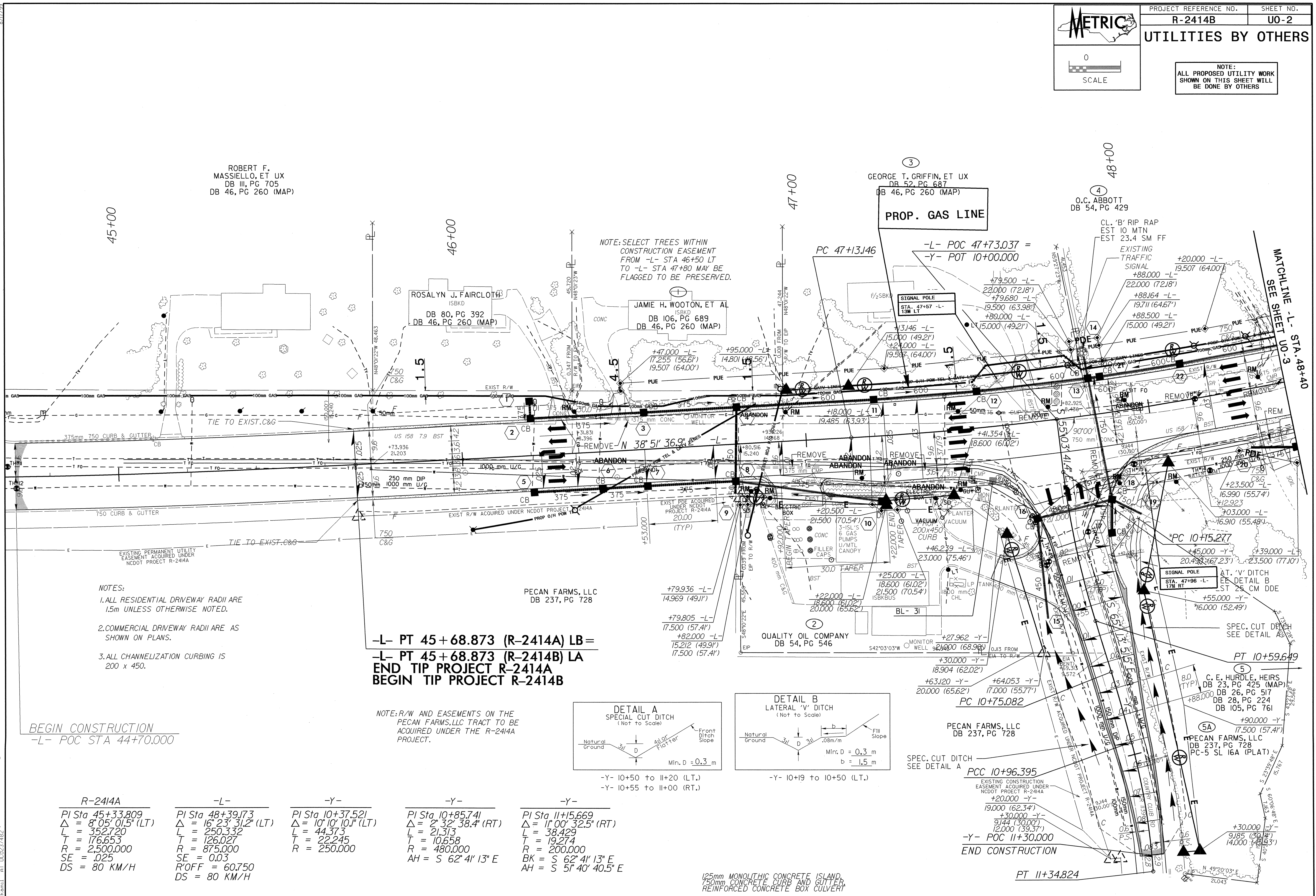
- UTILITY OWNERS ON PROJECT
- (1) PIEDMONT NATURAL GAS
 - (2) DOMINION POWER
 - (3) CHARTER CATV
 - (4) CENTURY LINK
 - (5) MEDIACOM

PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
DESIGN SERVICES
UTILITY SECTION

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Britt McCurry UTILITIES PROJECT DESIGNER

02-MAY-2011 15:13
P:\Utilities\es\city\Proj\R2414b\ut_uol_1sh.dgn
Kkamill AT U0237482



ROBERT F. MASSIELLO, ET UX
 DB III, PG 705
 DB 46, PG 260 (MAP)

GEORGE T. GRIFFIN, ET UX
 DB 52, PG 687
 DB 46, PG 260 (MAP)

O.C. ABBOTT
 DB 54, PG 429

ROSALYN J. FAIRCLOTH
 ISBKD
 DB 80, PG 392
 DB 46, PG 260 (MAP)

JAMIE H. WOOTON, ET AL
 ISBKD
 DB 106, PG 689
 DB 46, PG 260 (MAP)

PECAN FARMS, LLC
 DB 237, PG 728

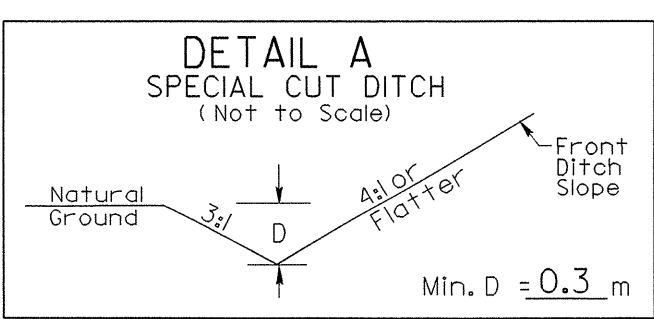
NOTE: SELECT TREES WITHIN CONSTRUCTION EASEMENT FROM -L- STA 46+50 LT TO -L- STA 47+80 MAY BE FLAGGED TO BE PRESERVED.

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

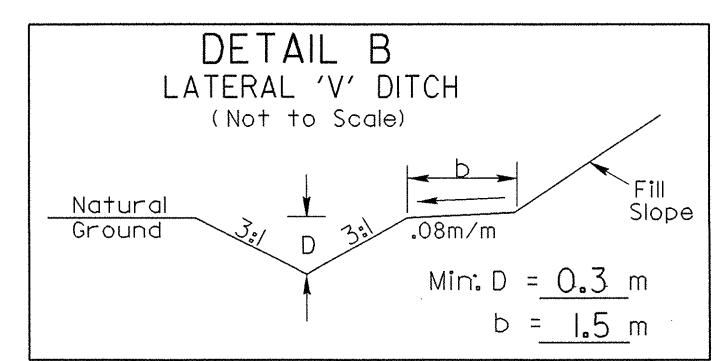
-L- PT 45+68.873 (R-2414A) LB =
-L- PT 45+68.873 (R-2414B) LA
END TIP PROJECT R-2414A
BEGIN TIP PROJECT R-2414B

BEGIN CONSTRUCTION
 -L- POC STA 44+70.000

NOTE: R/W AND EASEMENTS ON THE PECAN FARMS, LLC TRACT TO BE ACQUIRED UNDER THE R-2414A PROJECT.



-Y- 10+50 to 11+20 (LT.)
 -Y- 10+55 to 11+00 (RT.)

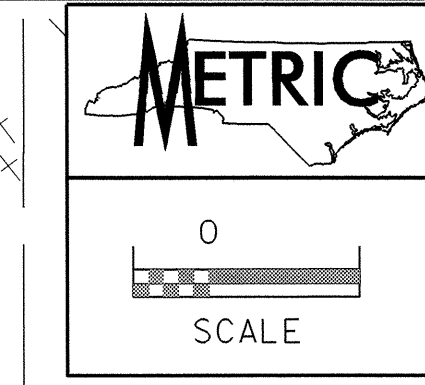


-Y- 10+19 to 10+50 (LT.)

R-2414A	-L-	-Y-	-Y-	-Y-
PI Sta 45+33.809	PI Sta 48+39.173	PI Sta 10+37.521	PI Sta 10+85.741	PI Sta 11+15.669
$\Delta = 8^{\circ} 05' 01.5''$ (LT)	$\Delta = 16^{\circ} 23' 31.2''$ (LT)	$\Delta = 10^{\circ} 10' 10.1''$ (LT)	$\Delta = 2^{\circ} 32' 38.4''$ (RT)	$\Delta = 11^{\circ} 00' 32.5''$ (RT)
L = 352.720	L = 250.332	L = 44.373	L = 21.313	L = 38.429
T = 176.653	T = 126.027	T = 22.245	T = 10.658	T = 19.274
R = 2,500.000	R = 875.000	R = 250.000	R = 480.000	R = 200.000
SE = .025	SE = 0.03			
DS = 80 KM/H	R/OFF = 60.750		AH = S 62° 41' 13" E	BK = S 62° 41' 13" E
	DS = 80 KM/H		AH = S 51° 40' 40.5" E	AH = S 51° 40' 40.5" E

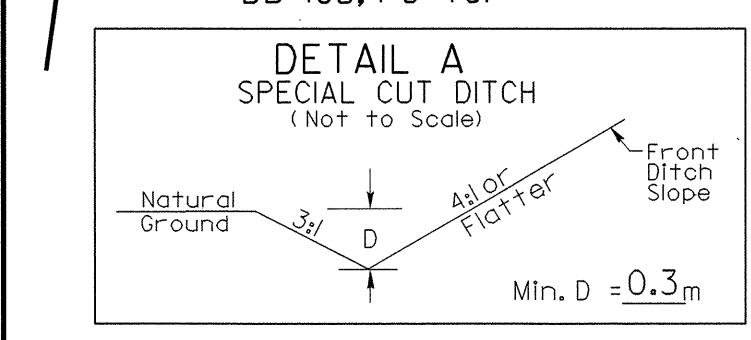
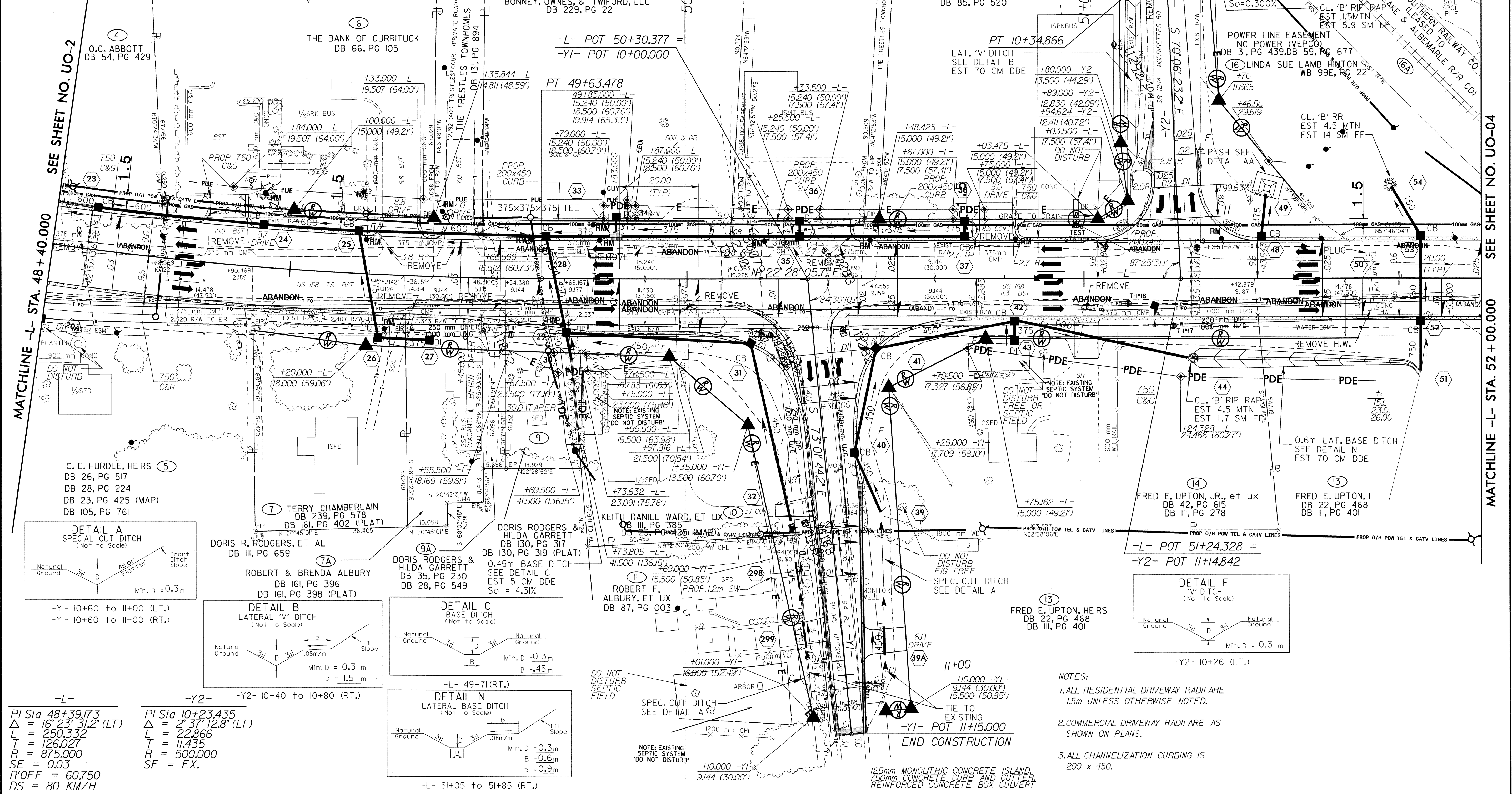
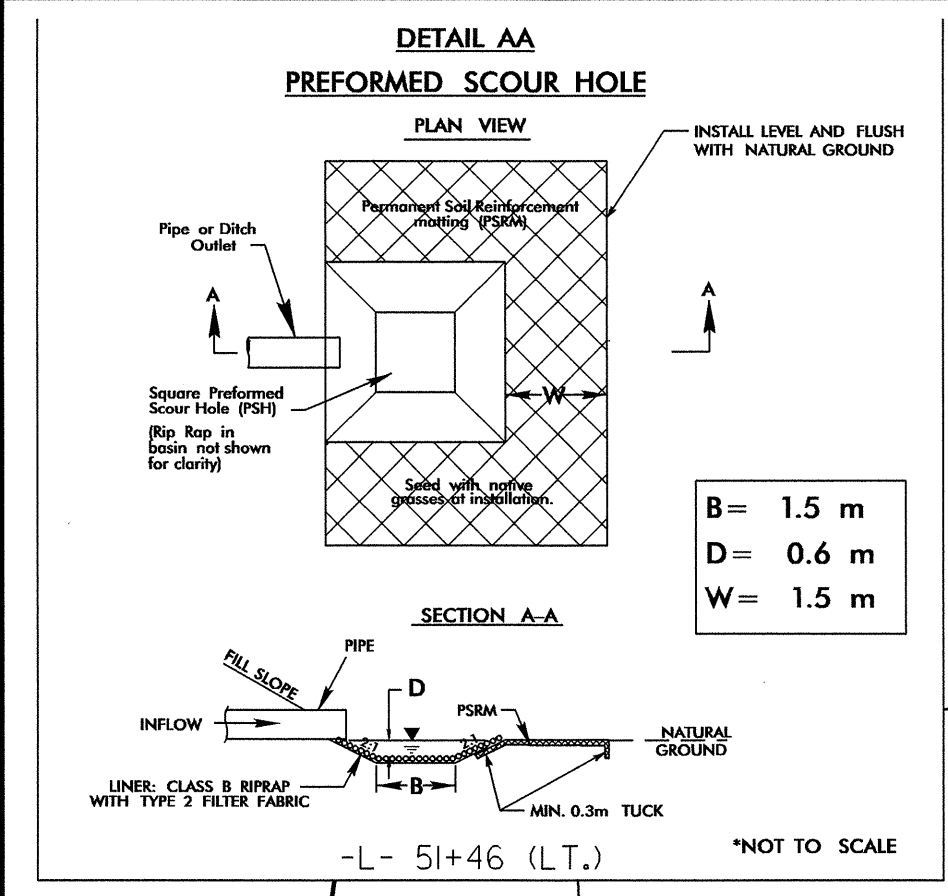
125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

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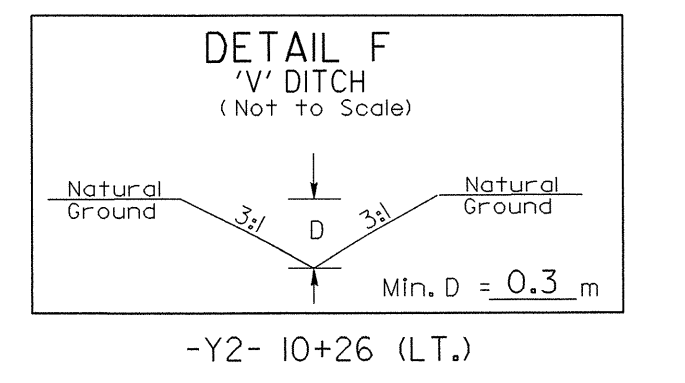
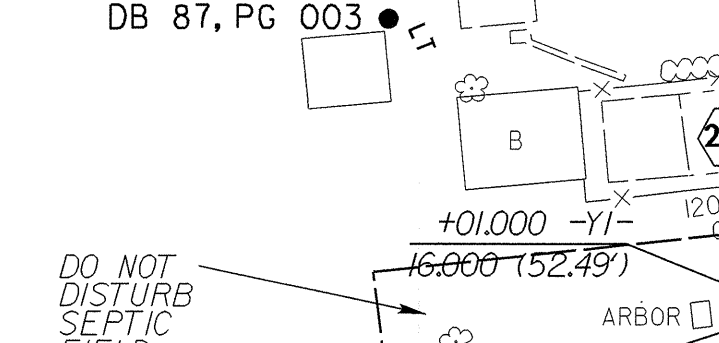
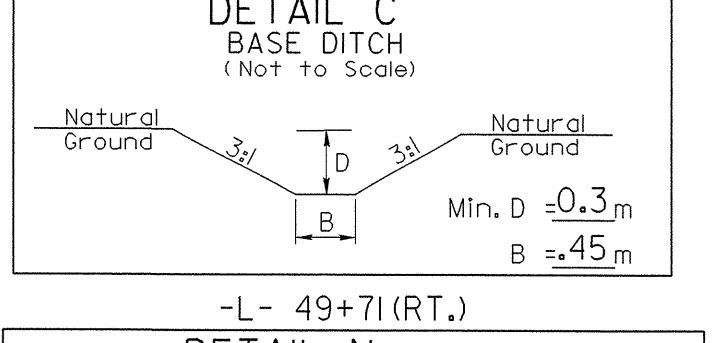
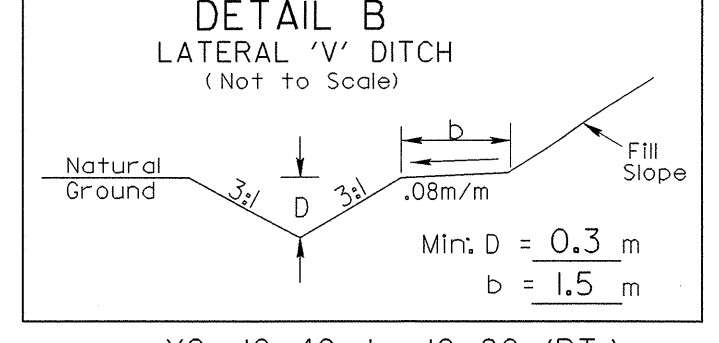


UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



-Y1- 10+60 to 11+00 (LT.)
-Y1- 10+60 to 11+00 (RT.)



-Y2- 10+26 (LT.)

-L-
PI Sta 48+39.73
Δ = 16° 23' 31.2" (LT.)
L = 250.332
T = 126.027
R = 875.000
SE = 0.03
R'OFF = 60.750
DS = 80. KM/H

-Y2-
PI Sta 10+23.435
Δ = 2° 37' 12.8" (LT.)
L = 22.866
T = 11.435
R = 500.000
SE = EX.

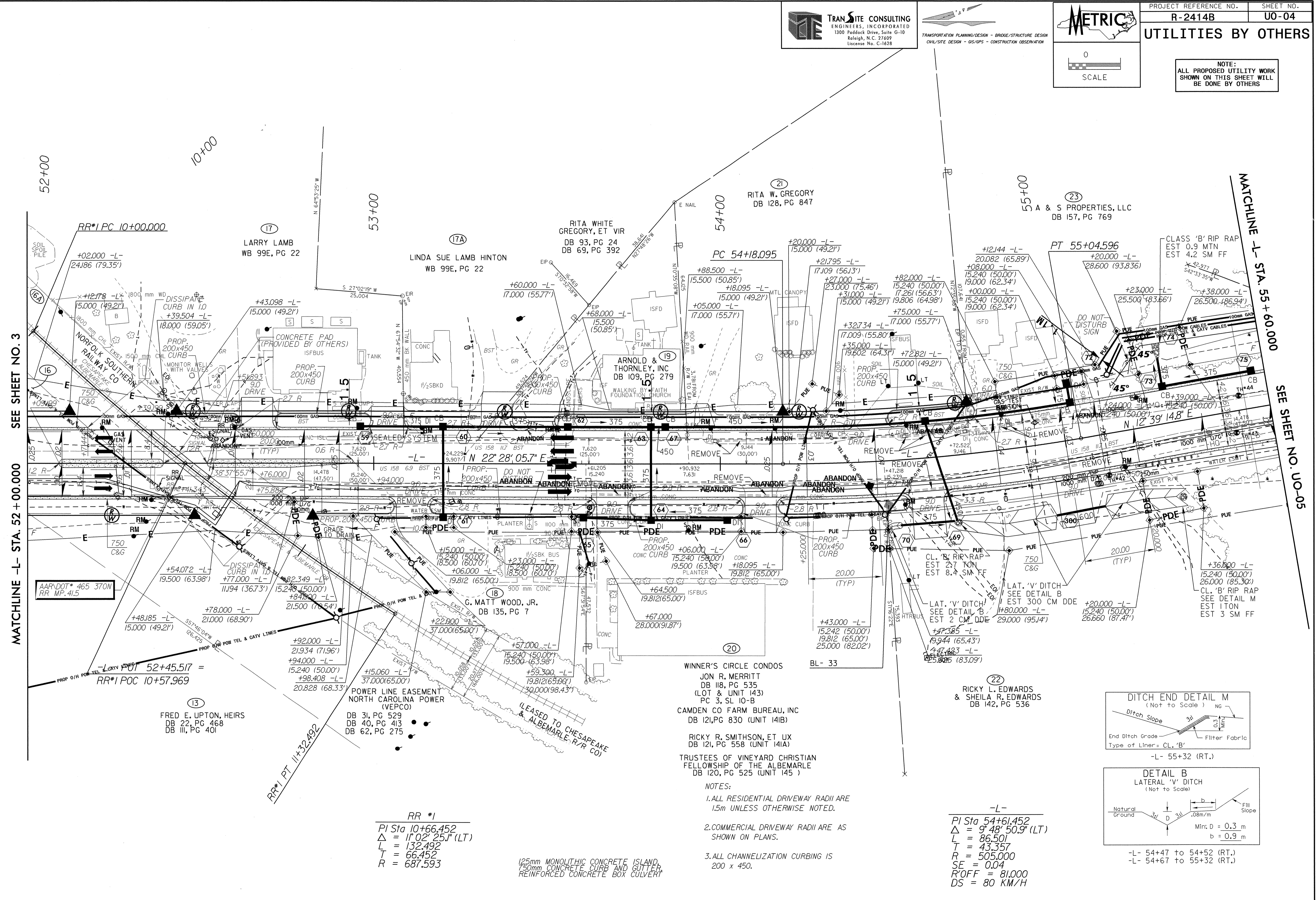
125mm MONOLITHIC CONCRETE ISLAND,
150mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS 200 x 450.

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8/17/09

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



SEE SHEET NO. 3
MATCHLINE -L- STA. 52 + 00.000

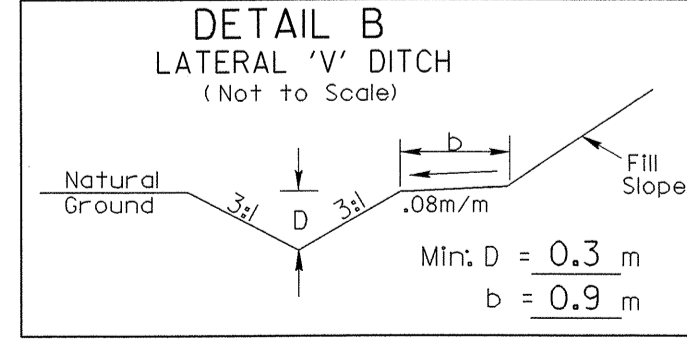
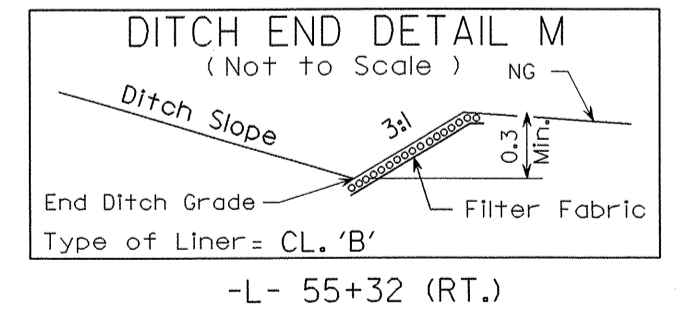
MATCHLINE -L- STA. 55 + 60.000
SEE SHEET NO. U0-05

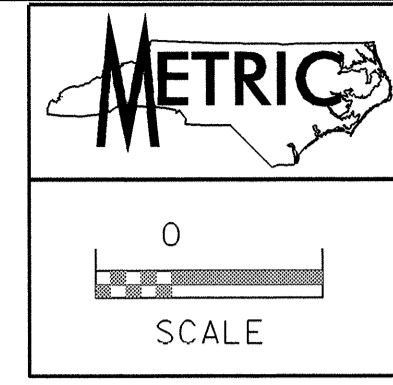
RR#1 PC 10+00.000
LARRY LAMB WB 99E, PG 22
LINDA SUE LAMB HINTON WB 99E, PG 22
RITA WHITE GREGORY, ET VIR DB 93, PG 24 DB 69, PG 392
RITA W. GREGORY DB 128, PG 847
ARNOLD & THORNLEY, INC DB 109, PG 279
G. MATT WOOD, JR. DB 135, PG 7
WINNER'S CIRCLE CONDOS
JON R. MERRITT DB 118, PG 535 (LOT & UNIT 143) PC 3, SL 10-B
CAMDEN CO FARM BUREAU, INC DB 121, PG 830 (UNIT 141B)
RICKY R. SMITHSON, ET UX DB 121, PG 558 (UNIT 141A)
TRUSTEES OF VINEYARD CHRISTIAN FELLOWSHIP OF THE ALBEMARLE DB 120, PG 525 (UNIT 145)
RICKY L. EDWARDS & SHEILA R. EDWARDS DB 142, PG 536
A & S PROPERTIES, LLC DB 157, PG 769
FRED E. UPTON, HEIRS DB 22, PG 468 DB 11, PG 401
POWER LINE EASEMENT NORTH CAROLINA POWER (VEPCO) DB 31, PG 529 DB 40, PG 413 DB 62, PG 275
125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT

RR #1
PI Sta 10+66.452
Δ = 1° 02' 25.1" (LT)
L = 132.492
T = 66.452
R = 687.593

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

-L-
PI Sta 54+61.452
Δ = 9° 48' 50.9" (LT)
L = 86.501
T = 43.357
R = 505.000
SE = 0.04
R'OFF = 81,000
DS = 80 KM/H

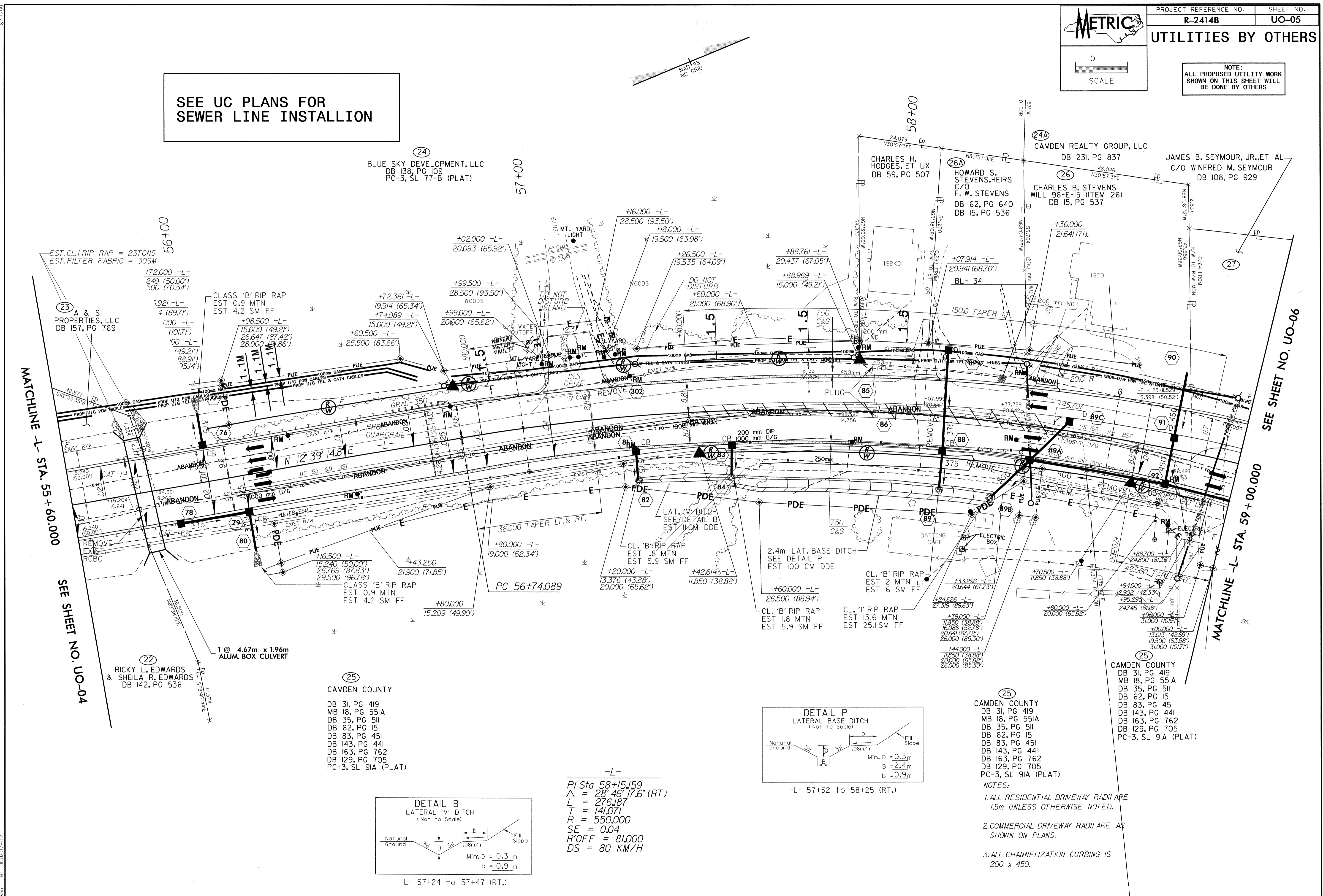




UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

SEE UC PLANS FOR
SEWER LINE INSTALLION



MATCHLINE -L- STA. 55 + 60.000

SEE SHEET NO. UO-04

SEE SHEET NO. UO-06

MATCHLINE -L- STA. 59 + 00.000

24
BLUE SKY DEVELOPMENT, LLC
DB 138, PG 109
PC-3, SL 77-B (PLAT)

23
A & S PROPERTIES, LLC
DB 157, PG 769

26A
CHARLES H. HODGES, ET UX
DB 59, PG 507

26
HOWARD S. STEVENS, HEIRS
C/O F. W. STEVENS
DB 62, PG 640
DB 15, PG 536

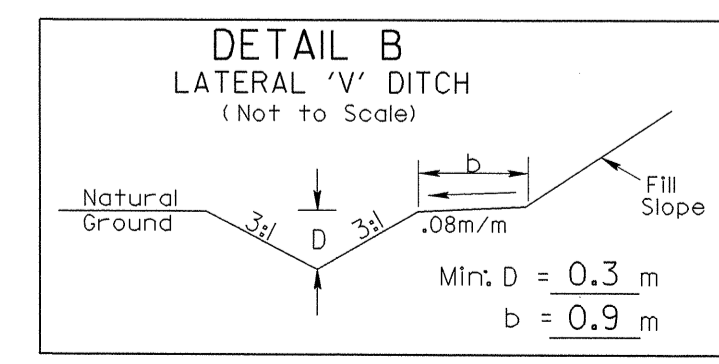
24A
CAMDEN REALTY GROUP, LLC
DB 231, PG 837

JAMES B. SEYMOUR, JR., ET AL
C/O WINFRED M. SEYMOUR
DB 108, PG 929

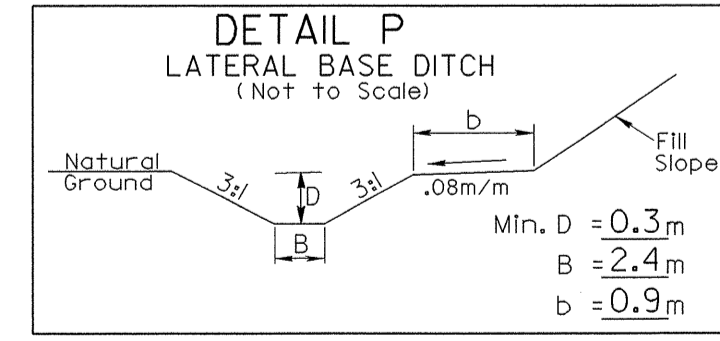
22
RICKY L. EDWARDS & SHEILA R. EDWARDS
DB 142, PG 536

25
CAMDEN COUNTY
DB 31, PG 419
MB 18, PG 551A
DB 35, PG 511
DB 62, PG 15
DB 83, PG 451
DB 143, PG 441
DB 163, PG 762
DB 129, PG 705
PC-3, SL 91A (PLAT)

25
CAMDEN COUNTY
DB 31, PG 419
MB 18, PG 551A
DB 35, PG 511
DB 62, PG 15
DB 83, PG 451
DB 143, PG 441
DB 163, PG 762
DB 129, PG 705
PC-3, SL 91A (PLAT)



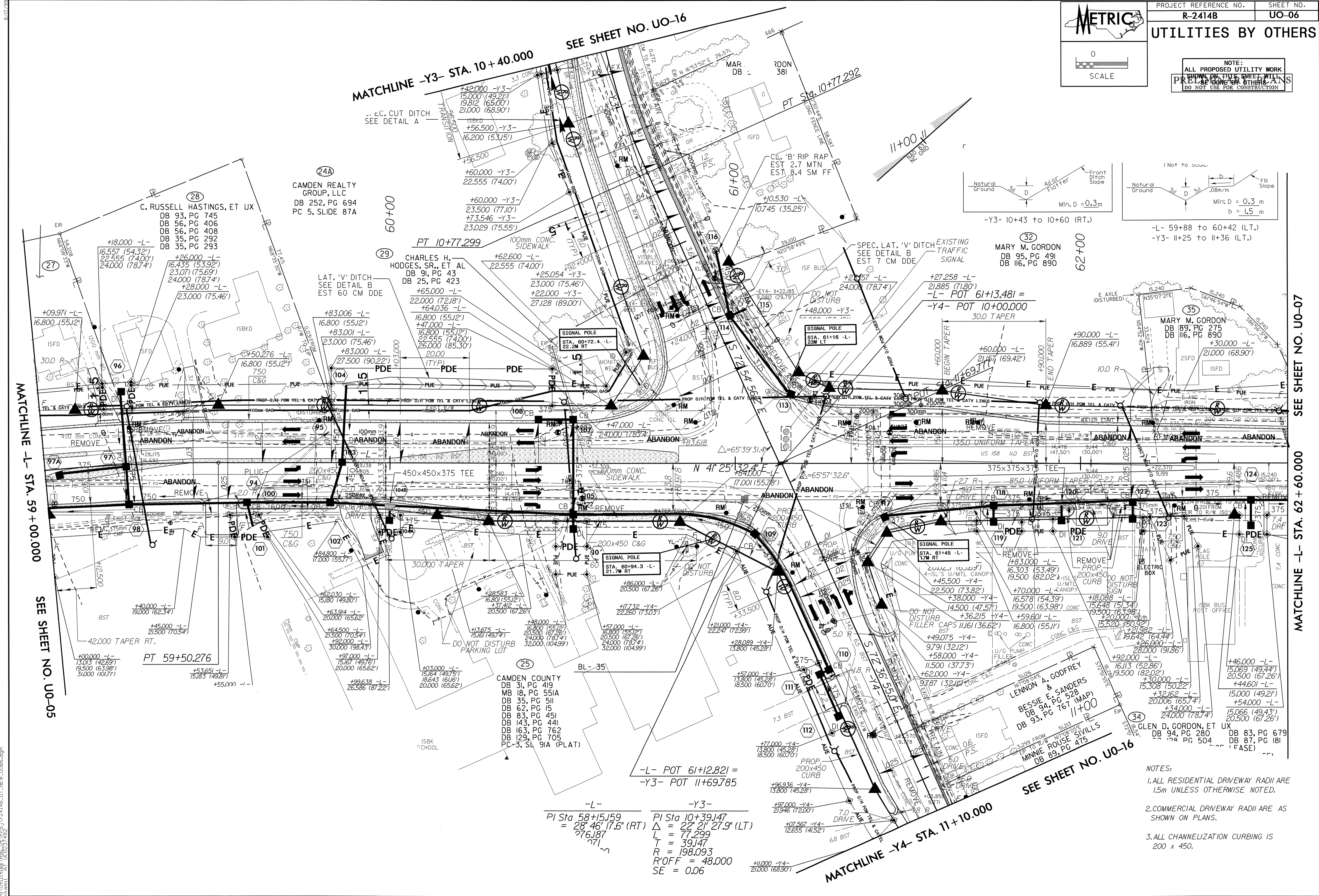
-L- 57+24 to 57+47 (RT.)



-L- 57+52 to 58+25 (RT.)

-L-
Pi Sta 58+15.159
Δ = 28° 46' 17.6" (RT)
L = 276.187
T = 141.071
R = 550.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS 200 x 450.

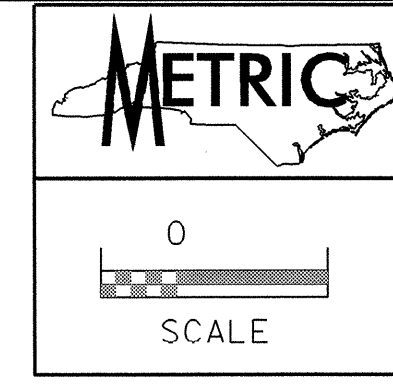


SEE SHEET NO. UO-07
 MATCHLINE -L- STA. 62 + 60.000

-L-	-Y3-
PI Sta 58+15.59 = 28° 46' 17.6" (RT) L = 276.187 T = 271.000 R = 198.093 R'OFF = 48.000 SE = 0.06	PI Sta 10+39.147 Δ = 22° 21' 27.9" (LT) L = 77.299 T = 39.147 R = 198.093 R'OFF = 48.000 SE = 0.06

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

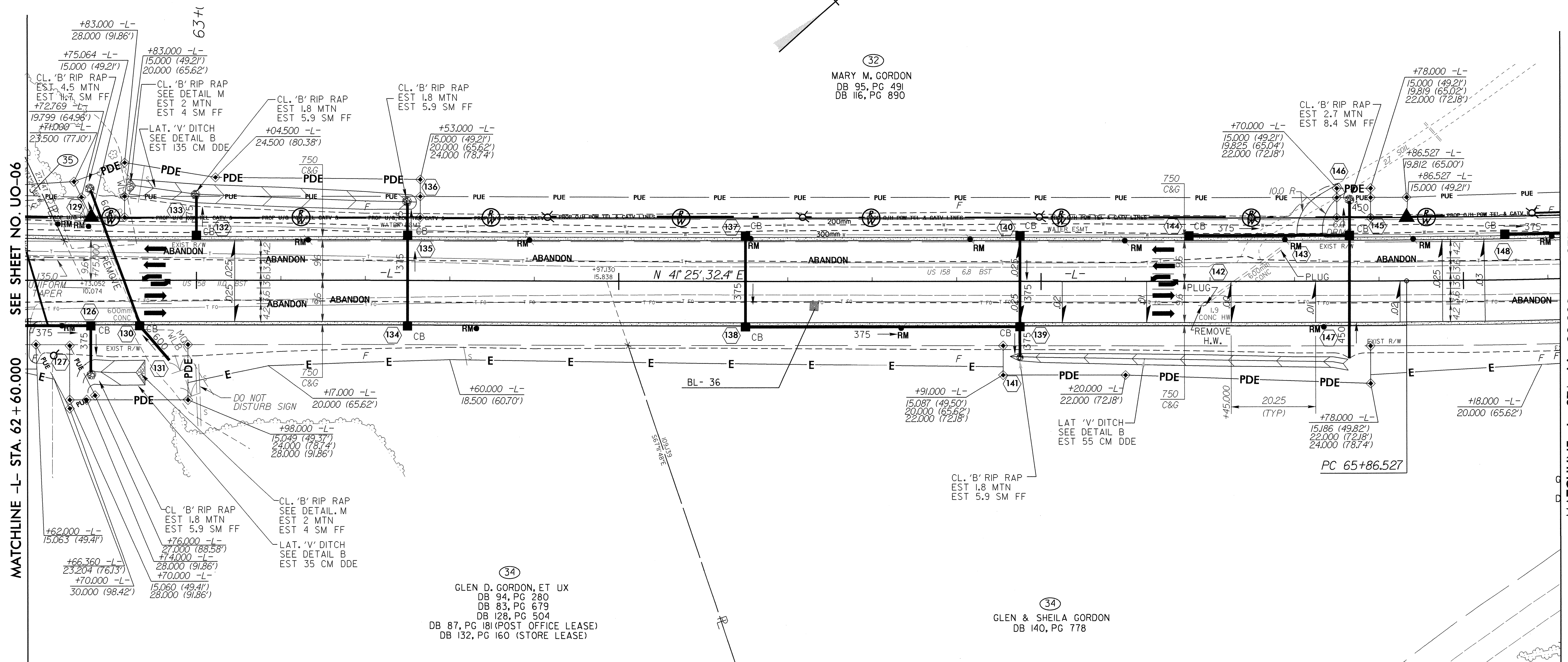
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 UO-06.dwg
 UO-06.dwg
 UO-06.dwg



PROJECT REFERENCE NO. R-2414B SHEET NO. UO-07

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



SEE SHEET NO. UO-06

MATCHLINE -L- STA. 62 + 60.00

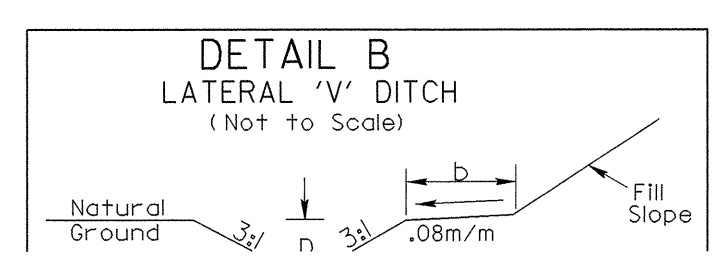
SEE SHEET NO. UO-08

MATCHLINE -L- STA. 66 + 20.00

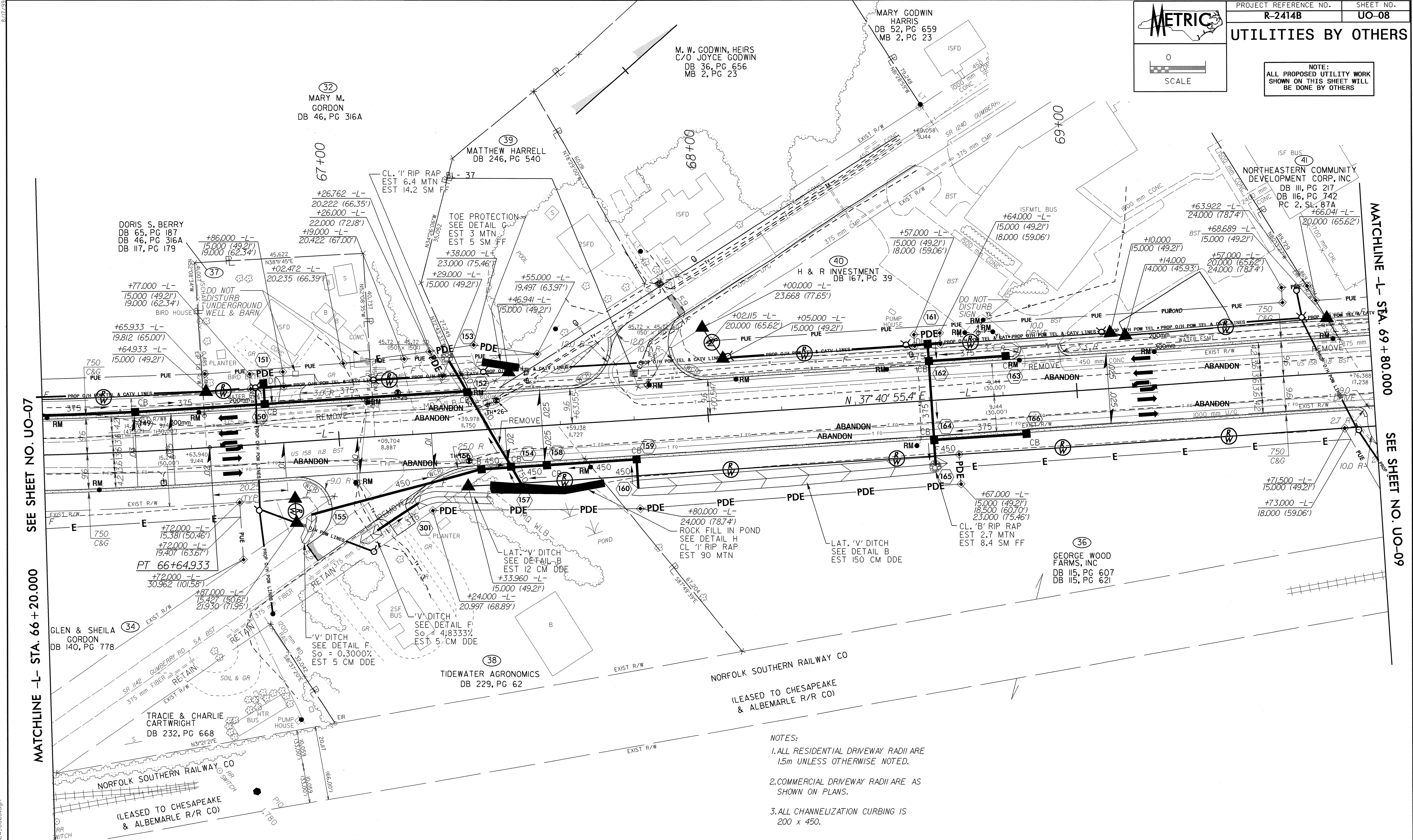
(32)
MARY M. GORDON
DB 95, PG 491
DB 116, PG 890

(34)
GLEN D. GORDON, ET UX
DB 94, PG 280
DB 83, PG 679
DB 128, PG 504
DB 87, PG 181 (POST OFFICE LEASE)
DB 132, PG 160 (STORE LEASE)

(34)
GLEN & SHEILA GORDON
DB 140, PG 778



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11/11/11 10:00:00 AM



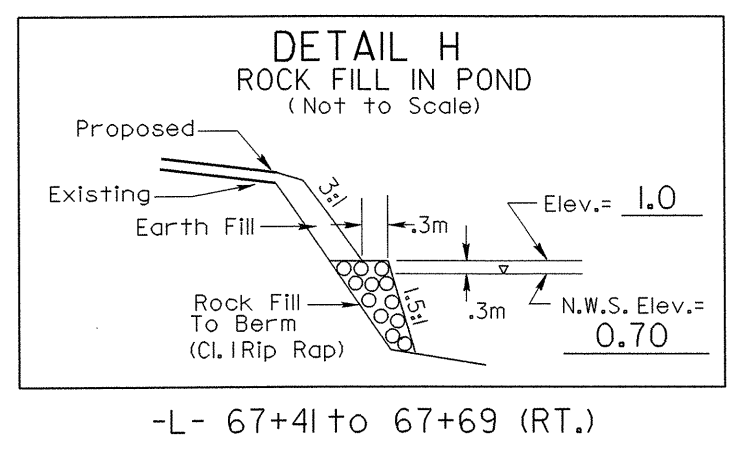
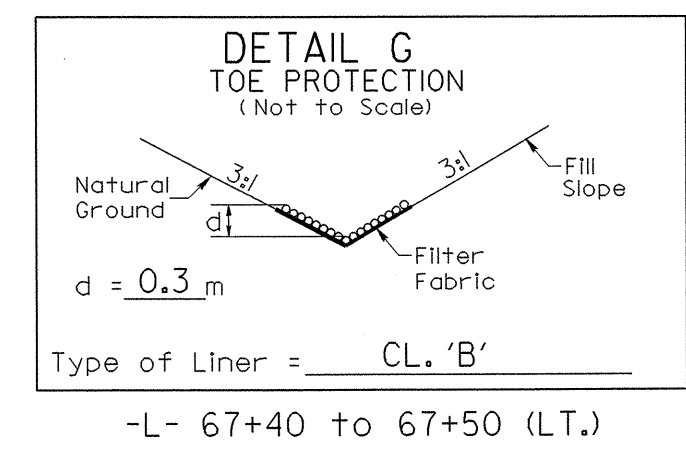
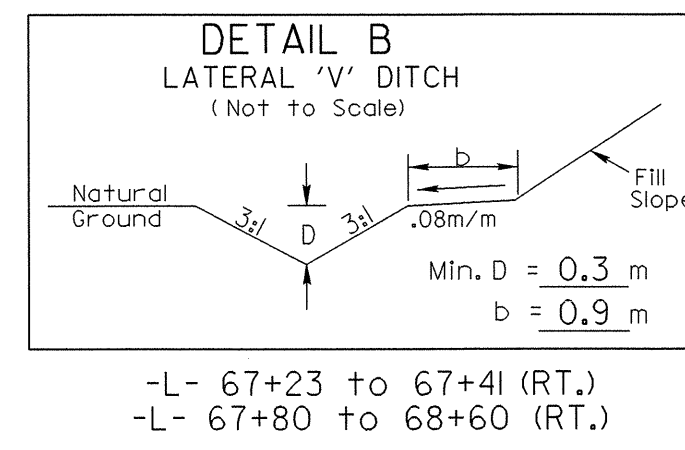
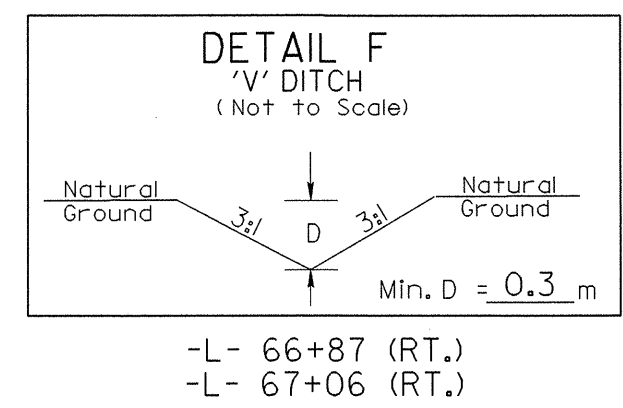
SEE SHEET NO. UO-07
 MATCHLINE -L- STA. 66+20.000

MATCHLINE -L- STA. 69+80.000
 SEE SHEET NO. UO-09

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

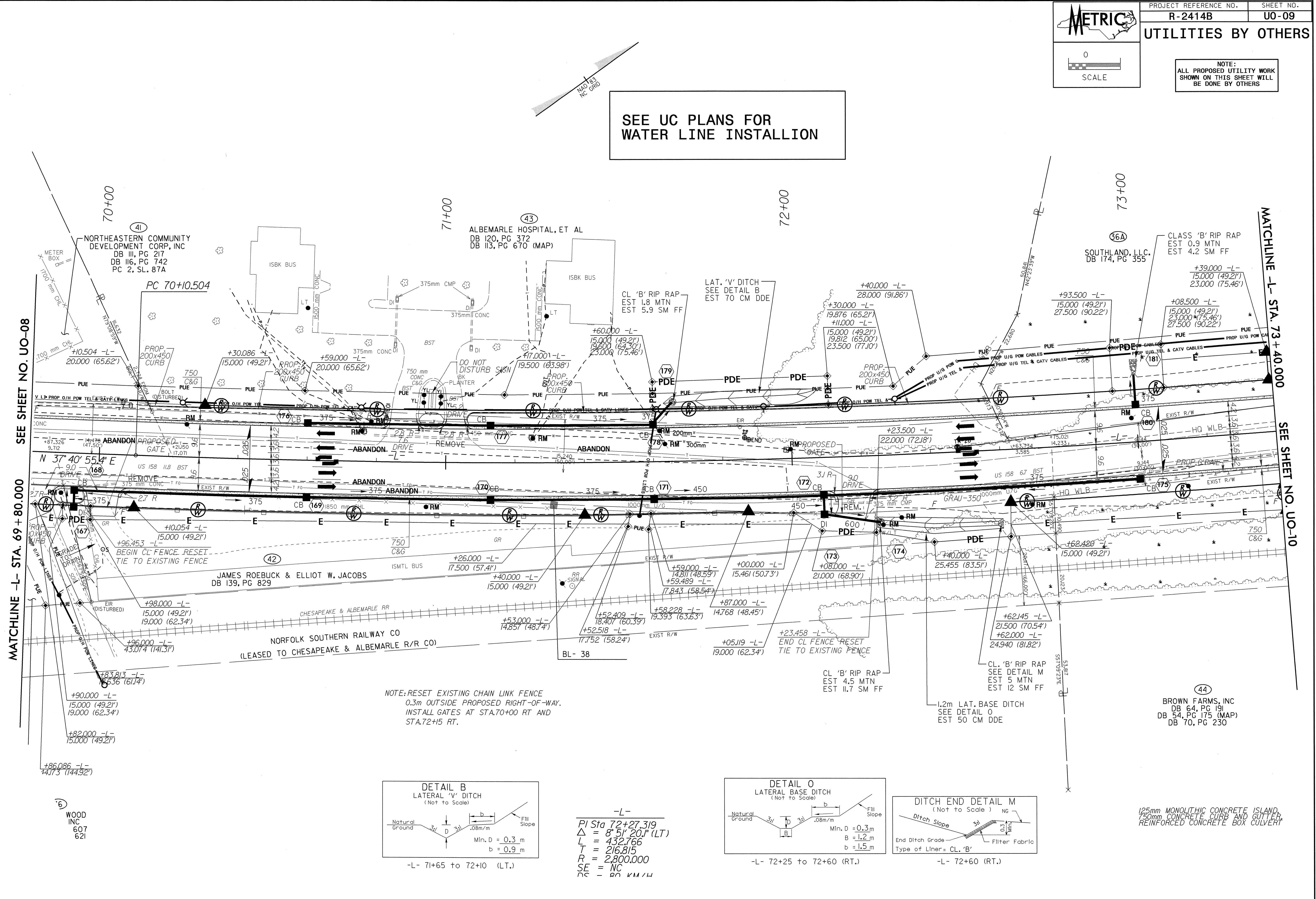
-L-
 PI Sta 66+25.744
 $\Delta = 3^{\circ} 44' 37.0''$ (LT)
 $L = 78.406$
 $T = 39.217$
 $R = 1,200.000$
 $SE = 0.03$
 $R/OFF = 60.750$
 $DS = 80$ KM/H

PAVEMENT REMOVAL
 125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT



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SEE UC PLANS FOR WATER LINE INSTALLION



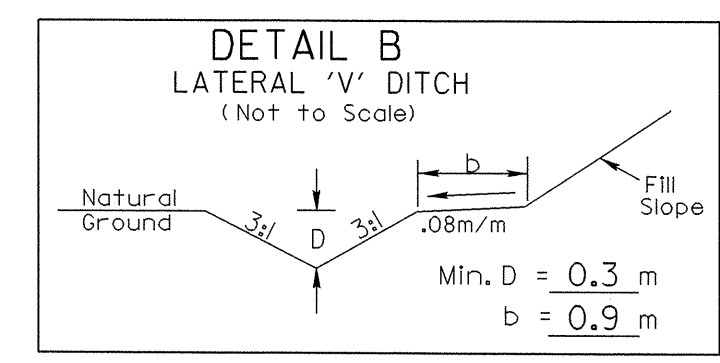
SEE SHEET NO. UO-08

MATCHLINE -L- STA. 69+80.000

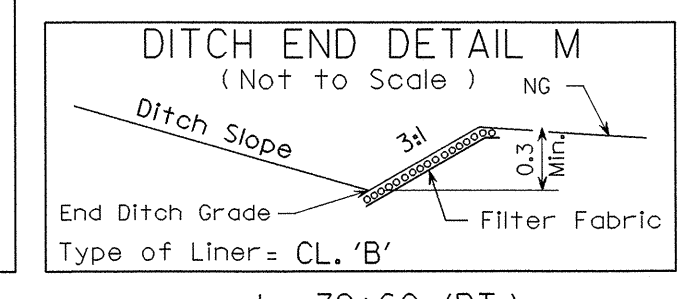
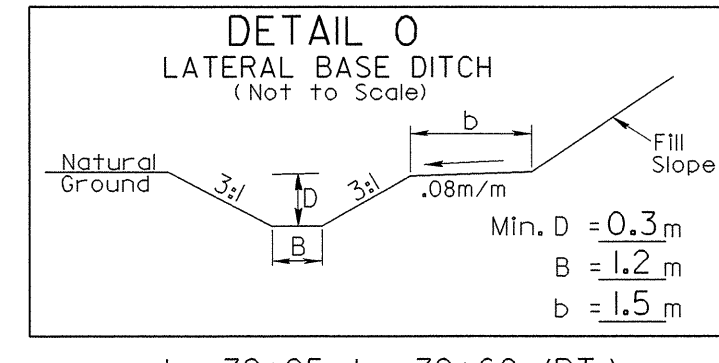
SEE SHEET NO. UO-10

MATCHLINE -L- STA. 73+40.000

NOTE: RESET EXISTING CHAIN LINK FENCE 0.3m OUTSIDE PROPOSED RIGHT-OF-WAY. INSTALL GATES AT STA. 70+00 RT AND STA. 72+15 RT.



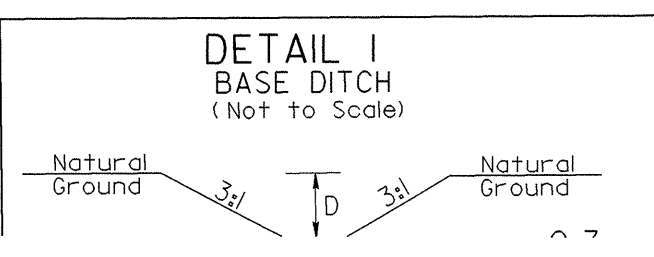
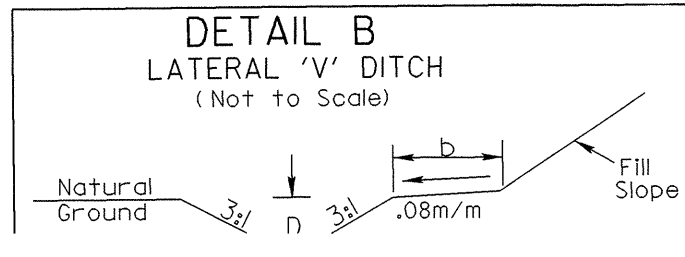
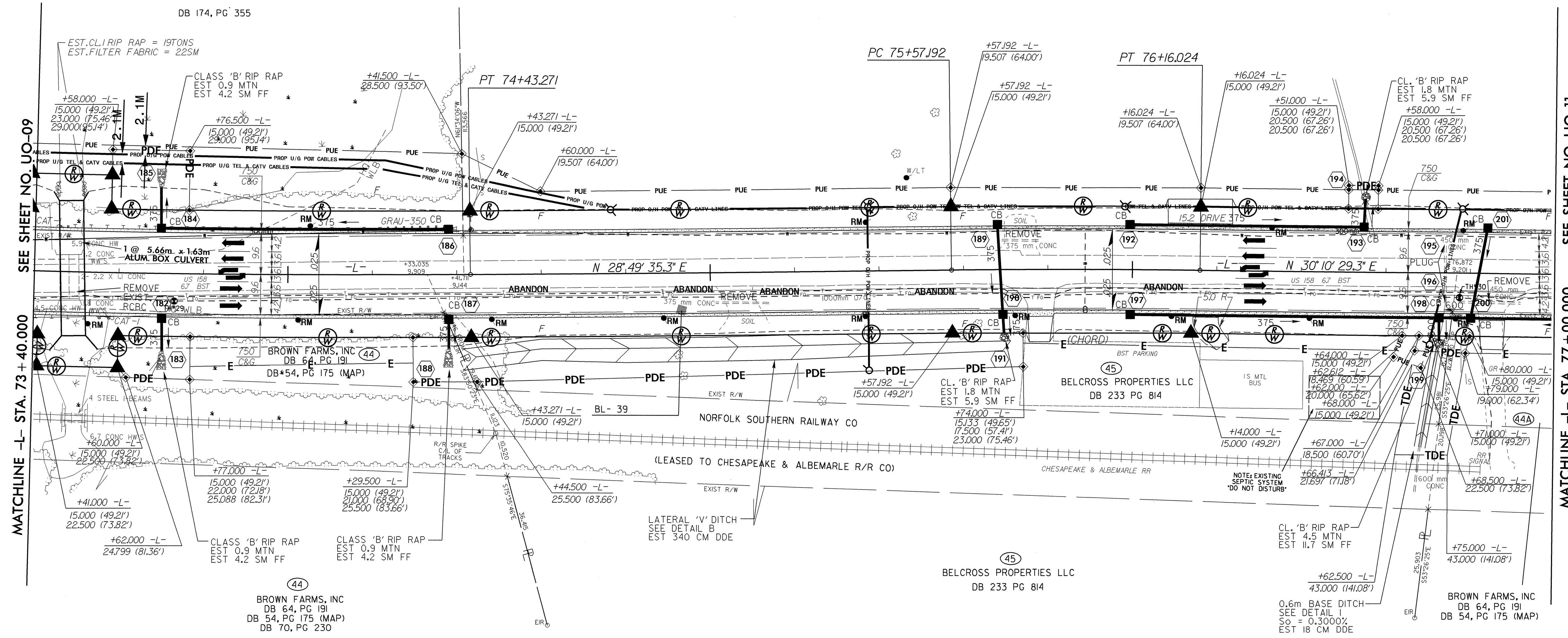
-L-
 PI Sta 72+27.319
 $\Delta = 8' 5" 20" (LT)$
 L = 432.766
 T = 216.815
 R = 2,800.000
 SE = NC
 CS = 80 KM/H



125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT

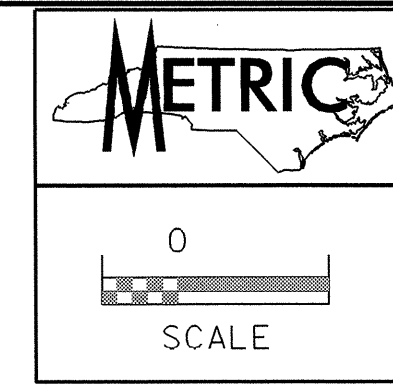
09-MAY-2011 09:51:11 J:\Projects\2414B\UT\NEW_UO09.dgn
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 WOOD INC 607 621

SEE UC PLANS FOR
WATER LINE INSTALLION



8/17/24
 03 MAY 2010 08:27
 P:\Projects\2414B\UT\NEW\UO-10.dgn
 kkm1

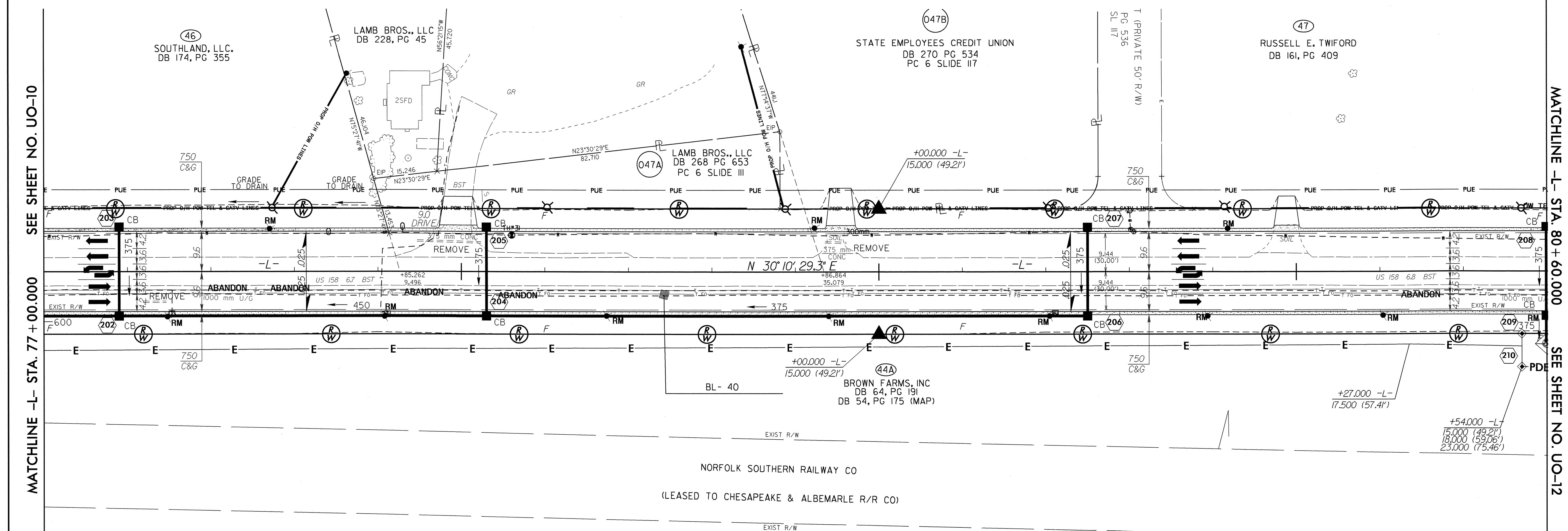
SEE SHEET NO. UO-09
 MATCHLINE -L- STA. 77 + 00.000
 SEE SHEET NO. UO-11



UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS 200 x 450.

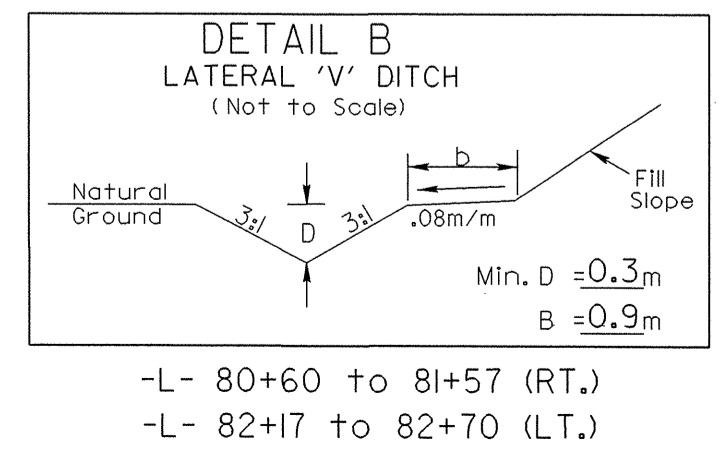
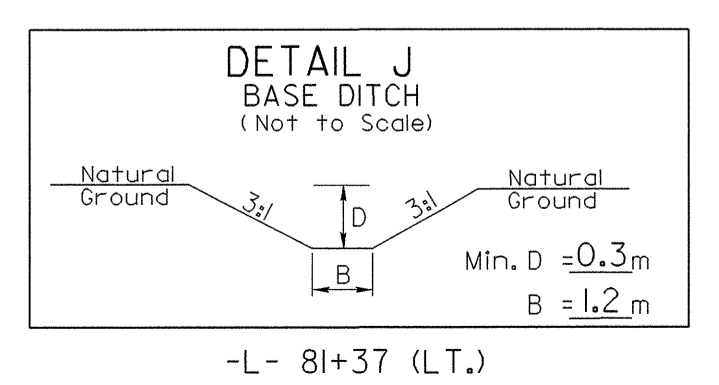
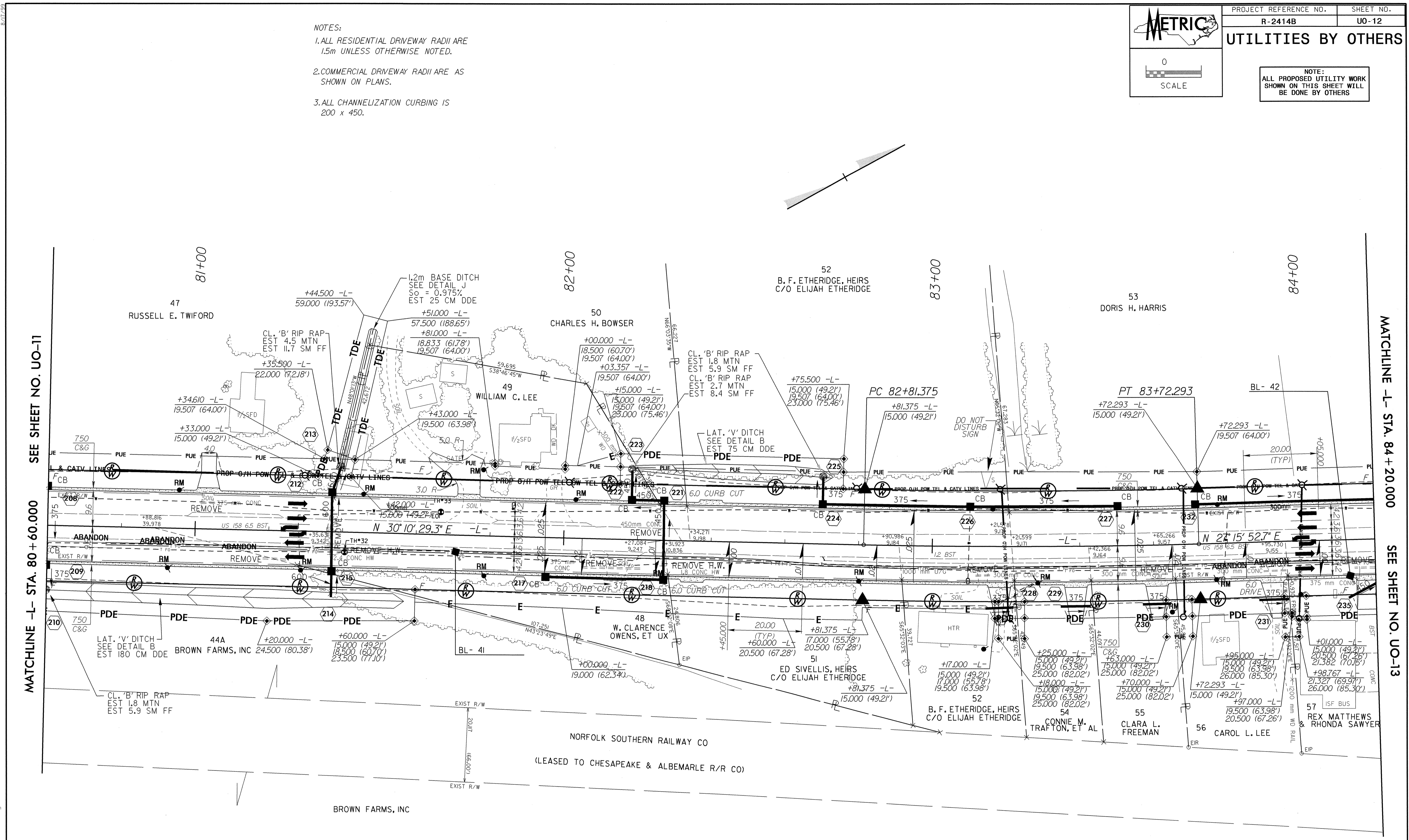


SEE SHEET NO. UO-10
MATCHLINE -L- STA. 77 + 00.000

MATCHLINE -L- STA. 80 + 60.000
SEE SHEET NO. UO-12

125mm MONOLITHIC CONCRETE ISLAND,
150mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

NOTES:
 1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.



-L-
 PI Sta 83+26.844
 $\Delta = 2^{\circ}54'36.6''$ (LT)
 L = 90.918
 T = 45.469
 R = 1,790.000
 SE = 0.025
 R'OFF = 50.625
 DS = 80 KM/H

125mm MONOLITHIC CONCRETE ISLAND,
 150mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

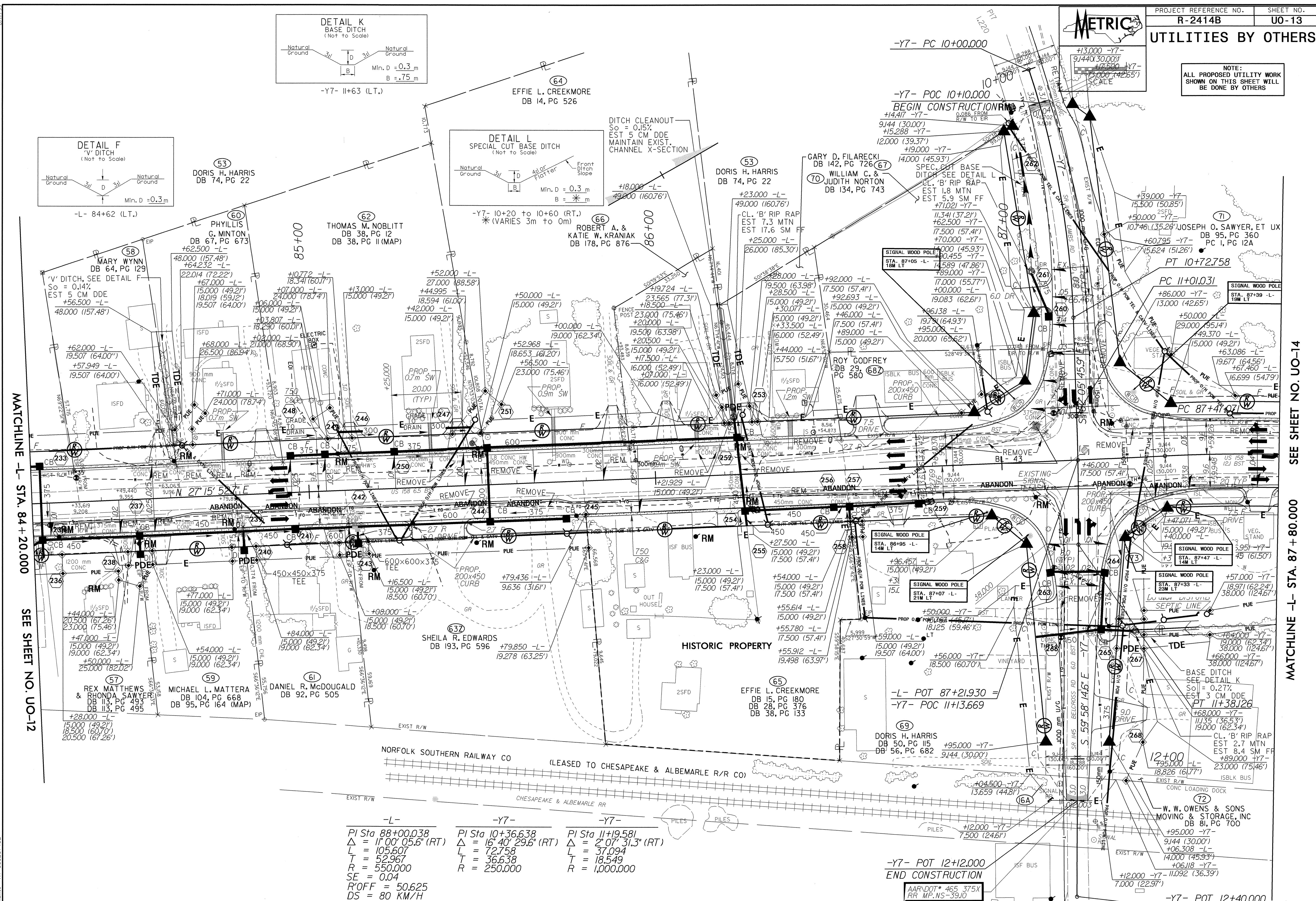
NOTE: ALL DRIVES ARE 6.0 METERS UNLESS OTHERWISE DENOTED

SEE SHEET NO. 24 FOR -L- GRADE AND PROFILE.

28-APR-2011 09:40:11 AM J:\Projects\2414b\UT_NEW_UO12.dgn

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



MATCHLINE -L- STA. 84+20.000

SEE SHEET NO. UO-12

SEE SHEET NO. UO-14

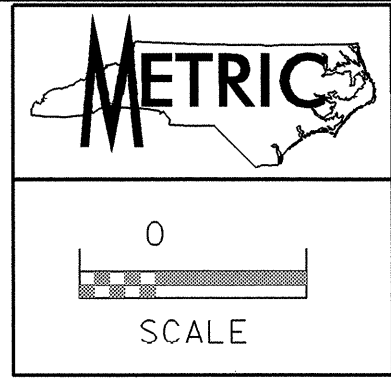
MATCHLINE -L- STA. 87+80.000

-L-	-Y7-	-Y7-
PI Sta 88+00.038	PI Sta 10+36.638	PI Sta 11+19.581
$\Delta = 11^{\circ}00'05.6"$ (RT)	$\Delta = 16^{\circ}40'29.6"$ (RT)	$\Delta = 2^{\circ}07'31.3"$ (RT)
L = 105.607	L = 72.758	L = 37.094
T = 52.967	T = 36.638	T = 18.549
R = 550.000	R = 250.000	R = 1,000.000
SE = 0.04		
R'OFF = 50.625		
DS = 80 KM/H		

-Y7- POT 12+12.000
END CONSTRUCTION

AAVDDOT* 465 375X
RR MP.NS-39.10

09-MAY-2011 04:53
R:\AutoCAD\Projects\2414B\UT_NEW\UO13.dwg
User: jrb
Plot: 090537482



UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

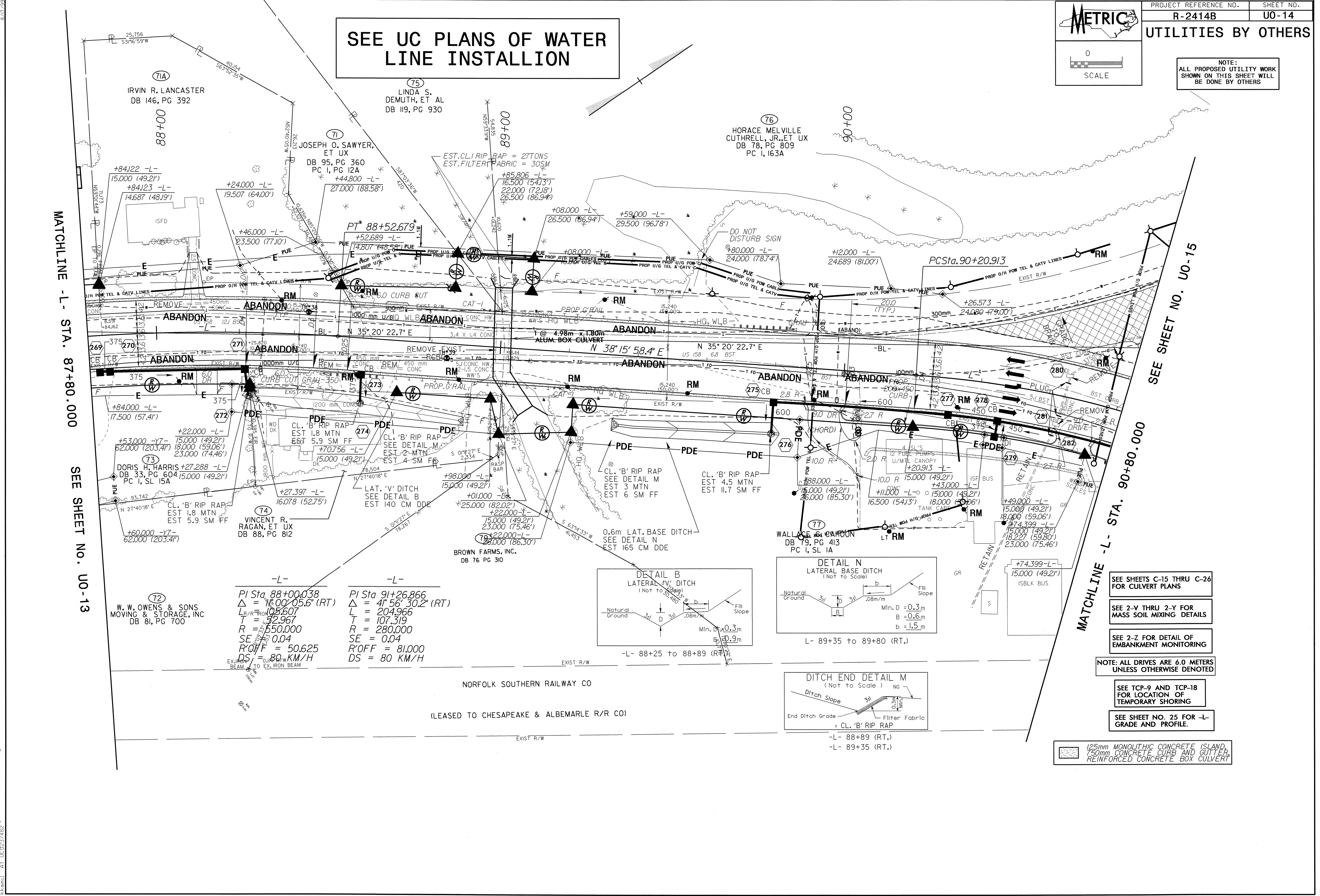
SEE UC PLANS OF WATER
LINE INSTALLION

MATCHLINE -L- STA. 87+80.000

SEE SHEET NO. U0-13

SEE SHEET NO. U0-15

MATCHLINE -L- STA. 90+80.000

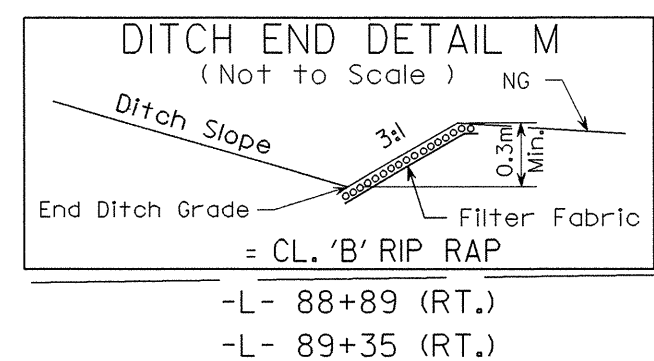
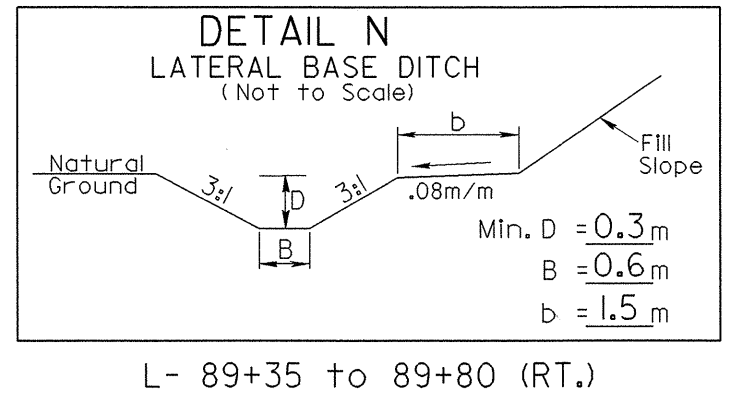
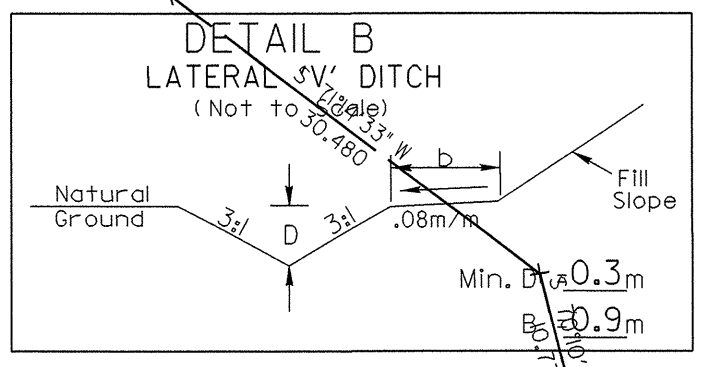


(72) W. W. OWENS & SONS
MOVING & STORAGE, INC
DB 81, PG 700

-L-
PI Sta 88+00.038
 $\Delta = 14^{\circ}00'05.6"$ (RT)
L/R = 105.607
T = 32.967
R = 550.000
SE = 0.04
R'OFF = 50.625
DS = 80 KM/H

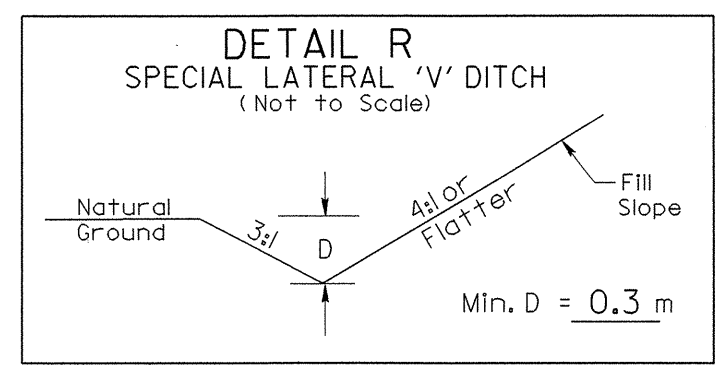
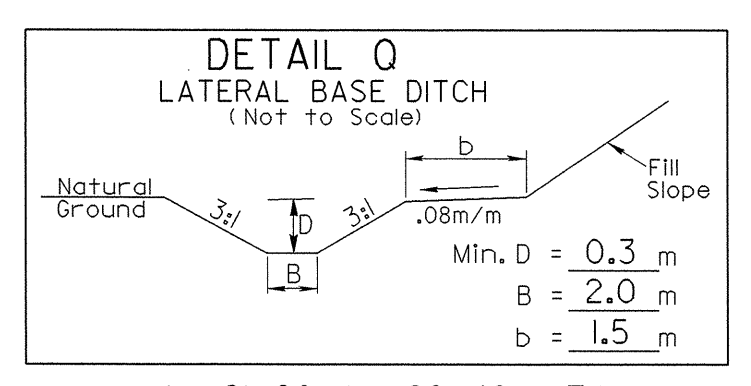
-L-
PI Sta 91+26.866
 $\Delta = 41^{\circ}56'30.2"$ (RT)
L = 204.966
T = 107.319
R = 280.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H

NORFOLK SOUTHERN RAILWAY CO
(LEASED TO CHESAPEAKE & ALBEMARLE R/R CO)



- SEE SHEETS C-15 THRU C-26 FOR CULVERT PLANS
- SEE 2-V THRU 2-Y FOR MASS SOIL MIXING DETAILS
- SEE 2-Z FOR DETAIL OF EMBANKMENT MONITORING
- NOTE: ALL DRIVES ARE 6.0 METERS UNLESS OTHERWISE DENOTED
- SEE TCP-9 AND TCP-18 FOR LOCATION OF TEMPORARY SHORING
- SEE SHEET NO. 25 FOR -L- GRADE AND PROFILE.

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT



-L-	-L-	-Y8-
PI Sta 91+26.866	PI Sta 93+07.681	PI Sta 11+74.655
$\Delta = 4^{\circ} 56' 30.2''$ (RT)	$\Delta = 4^{\circ} 05' 18.8''$ (LT)	$\Delta = 28^{\circ} 49' 10.8''$ (LT)
L = 204.966	L = 166.266	L = 88.025
T = 107.319	T = 83.168	T = 44.964
R = 280.000	R = 2,330.000	R = 175.000
SE = 0.04	SE = NC	
R'OFF = 81.000	DS = 80 KM/H	
DS = 80 KM/H		

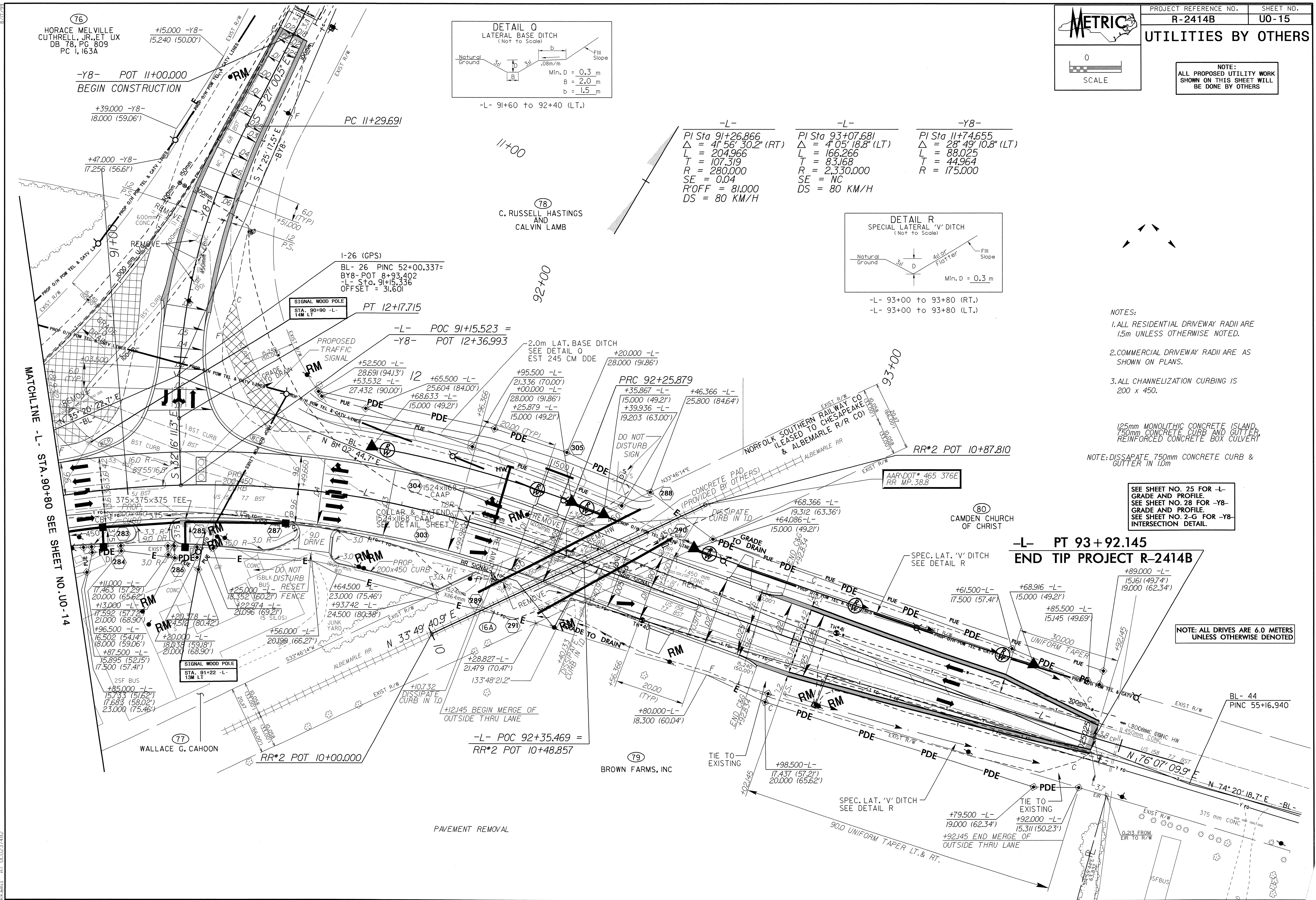
- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT

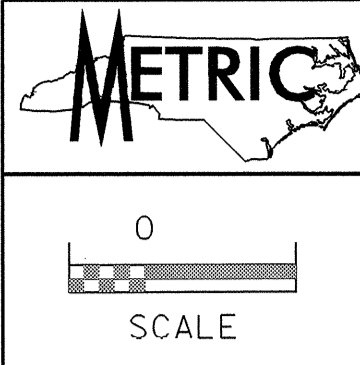
NOTE: DISSIPATE 750mm CONCRETE CURB & GUTTER IN 1.0m

SEE SHEET NO. 25 FOR -L- GRADE AND PROFILE. SEE SHEET NO. 28 FOR -Y8- GRADE AND PROFILE. SEE SHEET NO. 2-G FOR -Y8- INTERSECTION DETAIL.

NOTE: ALL DRIVES ARE 6.0 METERS UNLESS OTHERWISE DENOTED

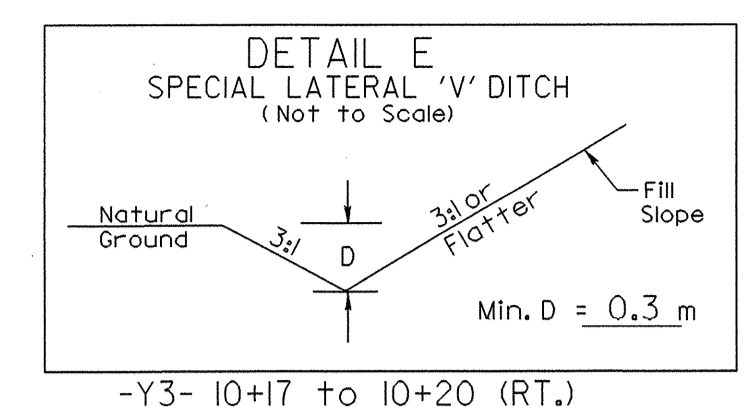
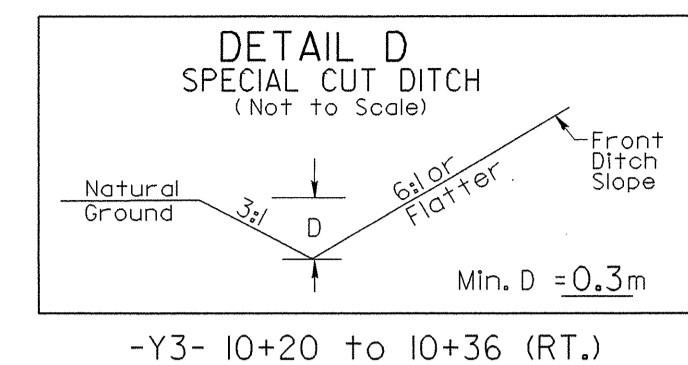


OP-MAY-2011 05:33
 P:\2011\11-2414b\11-2414b-UT-NEW-UD05.dwg



UTILITIES BY OTHERS

NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS



-Y3-
 PI Sta 9+95.079
 $\Delta = 5^\circ 16' 45.9''$ (LT)
 L = 177.292
 T = 95.079
 R = 198.093
 BK = S 49° 08' 11.8" E

