

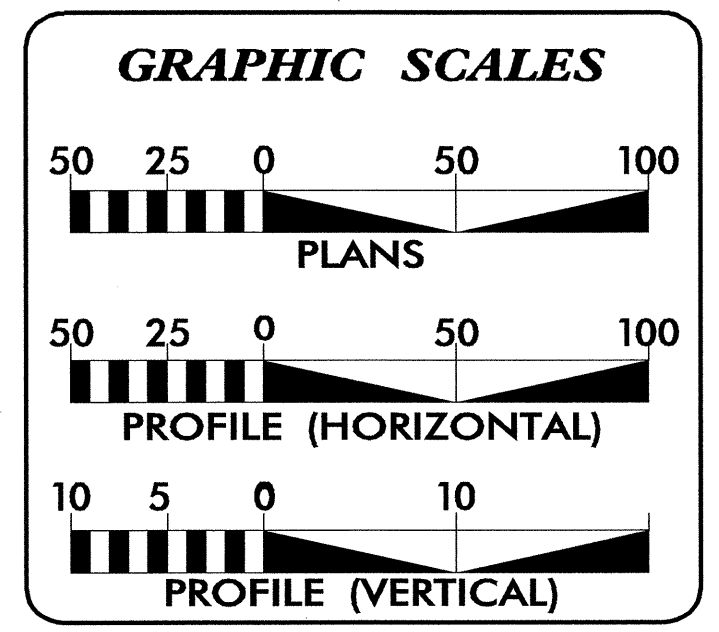
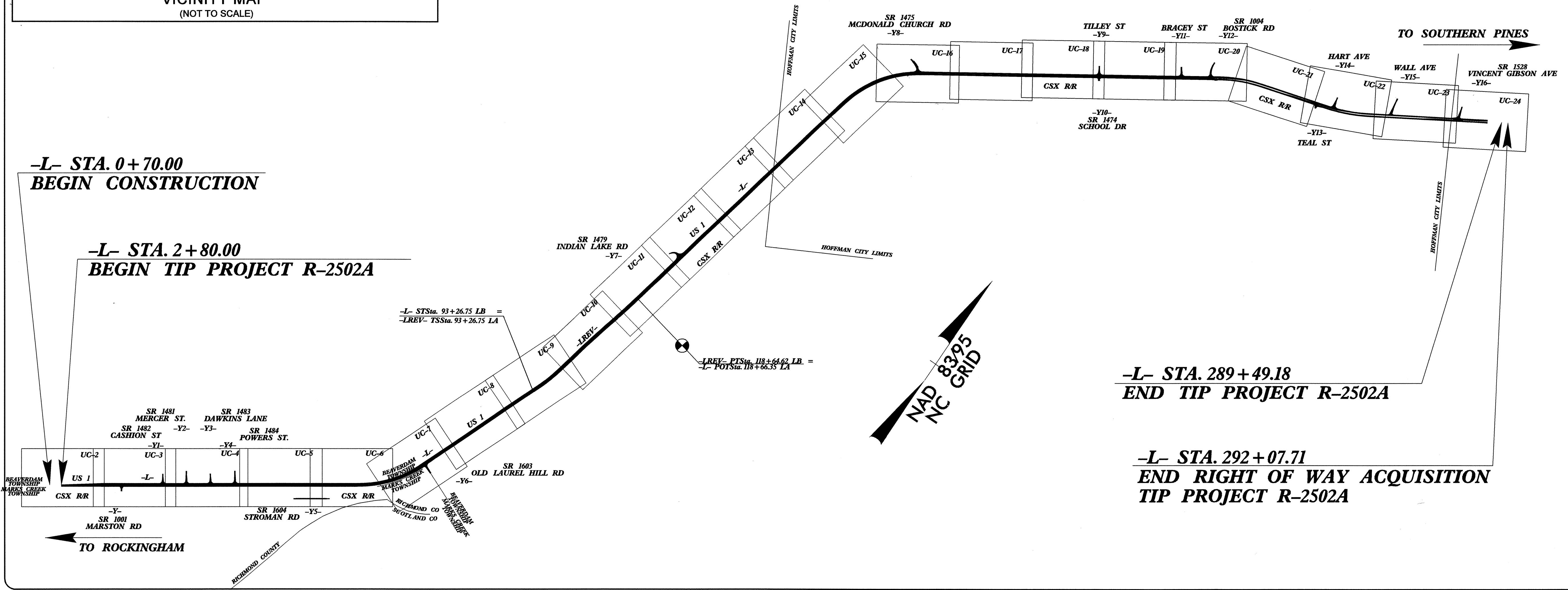
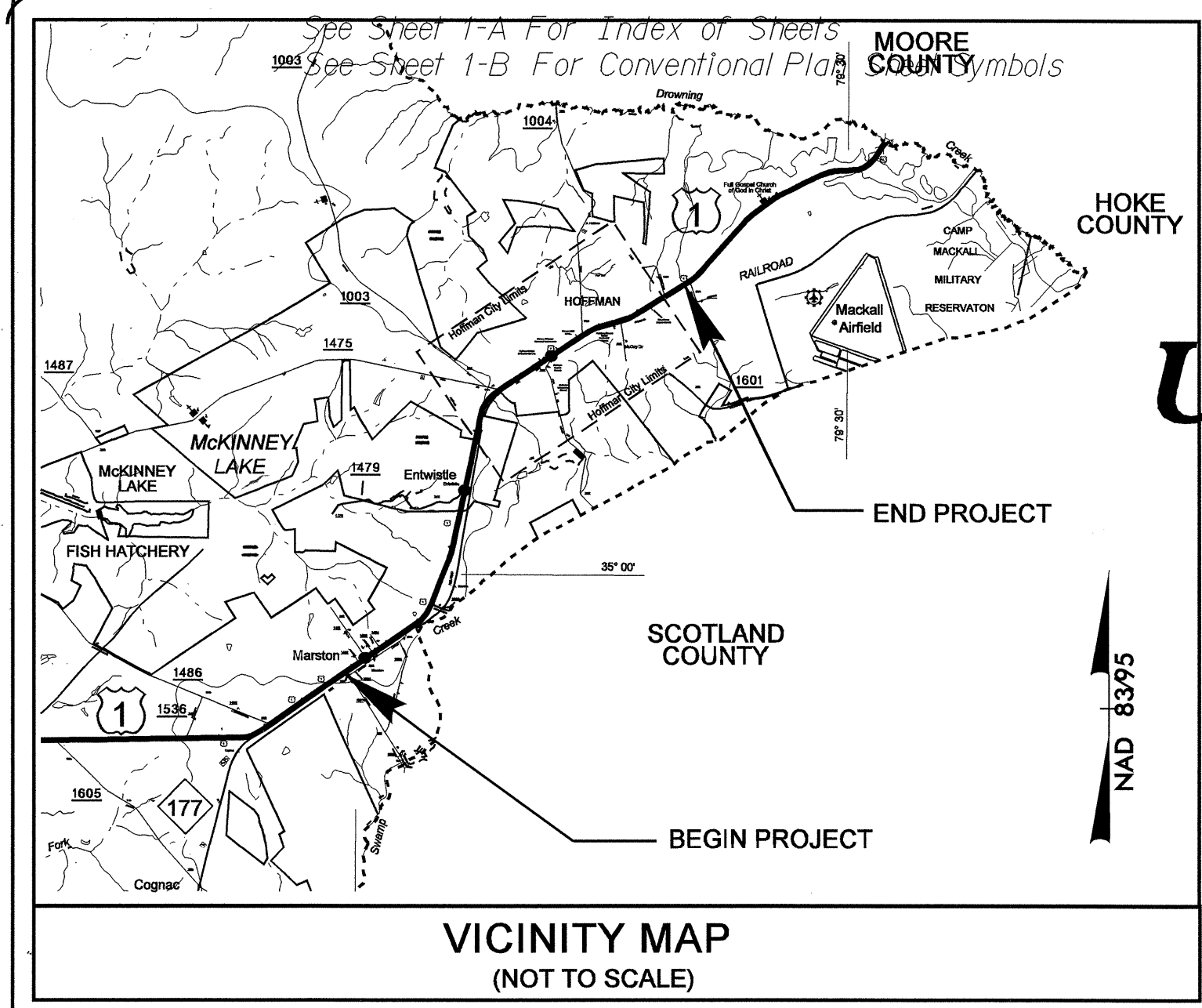
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS  
RICHMOND COUNTY**

**LOCATION: US 1 FROM SOUTH OF SR 1001 (MARSTON RD)  
TO NORTH OF SR 1528 (VINCENT GIBSON AVE)**

**TYPE OF WORK: WATER LINE RELOCATION**

**TIP PROJECT: R-2502A**



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-24	UTILITY CONSTRUCTION PLAN SHEETS
UC-25	DETAILS SHEET(S)

**WATER AND SEWER OWNERS ON PROJECT**

(1) WATER: RICHMOND COUNTY

SEAL

PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
PROJECT SERVICES  
UTILITY SECTION**

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

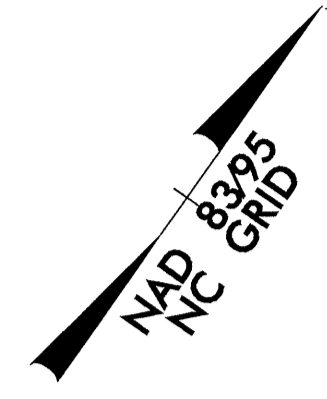
**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Carl Barclay, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Ali Kouchehi, PE** UTILITIES PROJECT DESIGNER

5/14/99

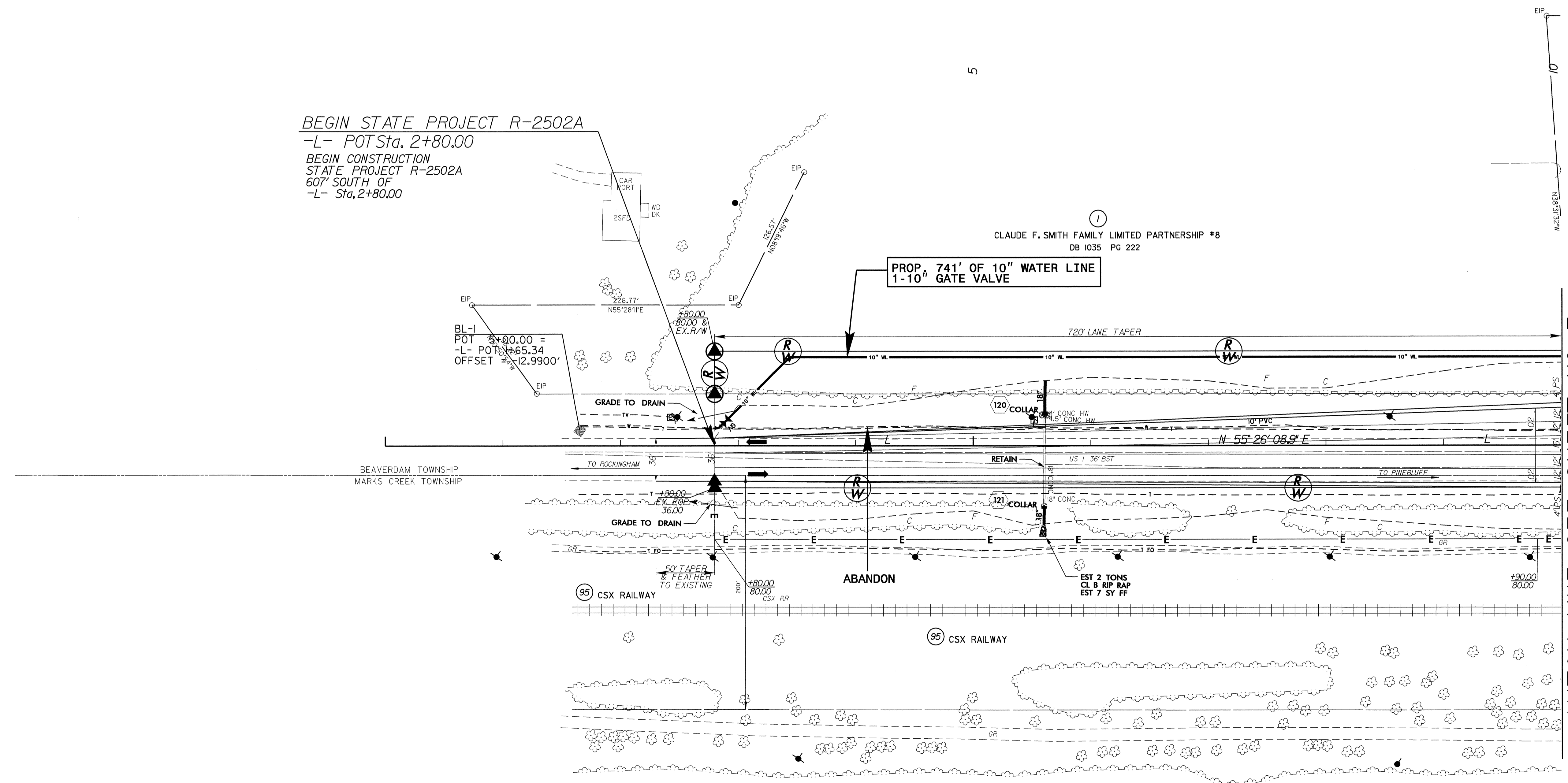
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-2
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION

REVISIONS



BEGIN STATE PROJECT R-2502A  
 -L- POT Sta. 2+80.00  
 BEGIN CONSTRUCTION  
 STATE PROJECT R-2502A  
 60' SOUTH OF  
 -L- Sta. 2+80.00



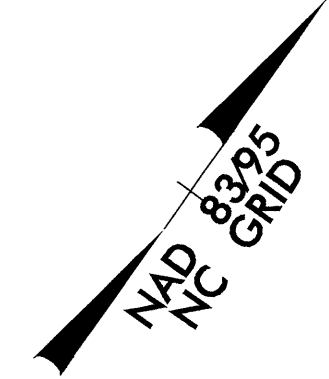
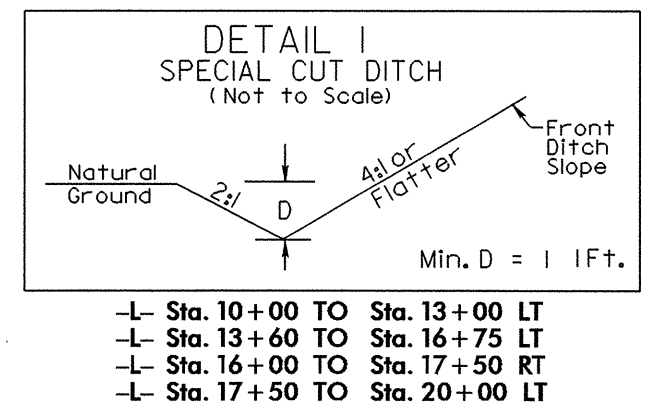
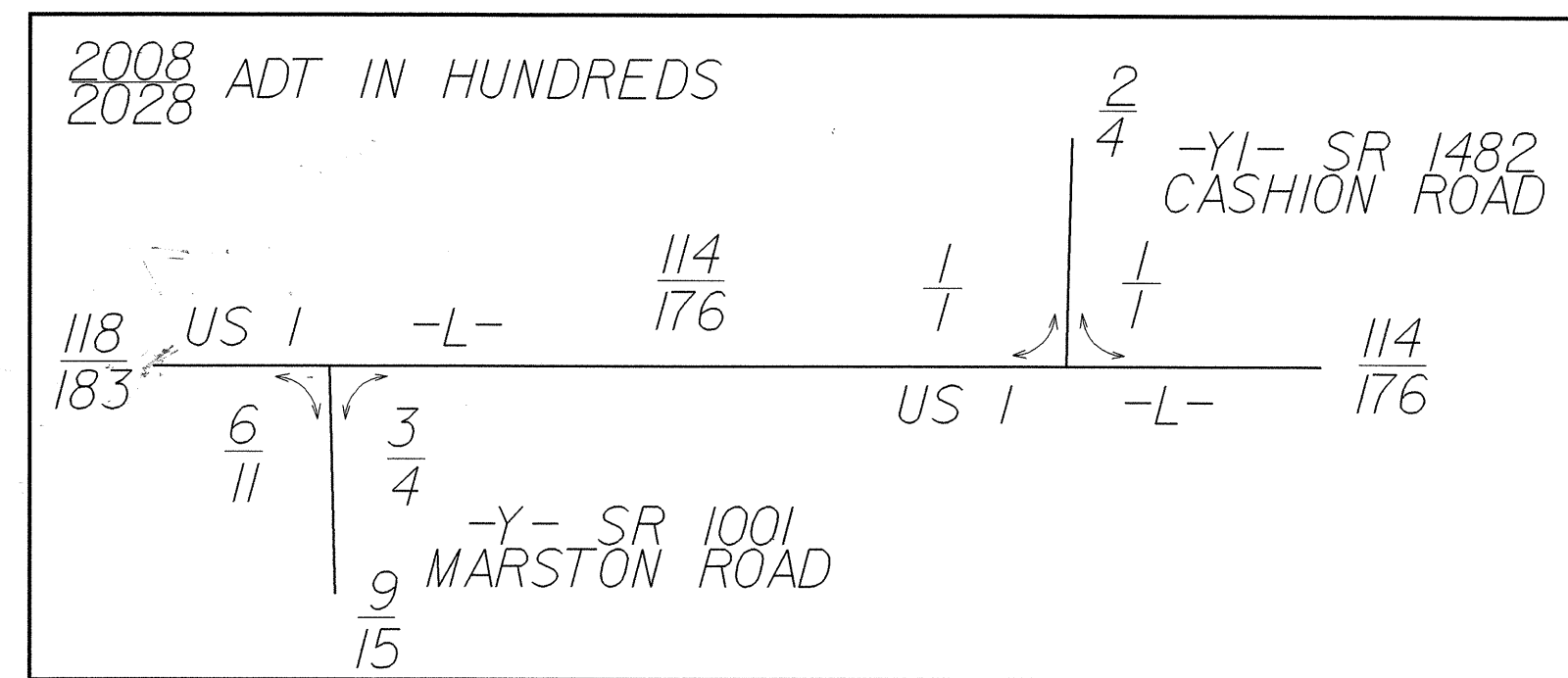
MATCH LINE -L- SEE SHEET UC-3  
-L- STA. 10+00.00

- NOTES:**
- 1) ALL SERVICE CONNECTIONS SHALL BE 3/4" IPS PE TUBING.
  - 2) PROVIDE CONCRETE VALVE MARKERS FOR EACH VALVE, AND INSTALL AT THE R/W LINE. ALL THE VALVE MARKERS ARE INCIDENTAL TO THE VALVES.
  - 3) PLACE WATER LINES 5' FROM R/W LINE, UNLESS OTHERWISE NOTED.

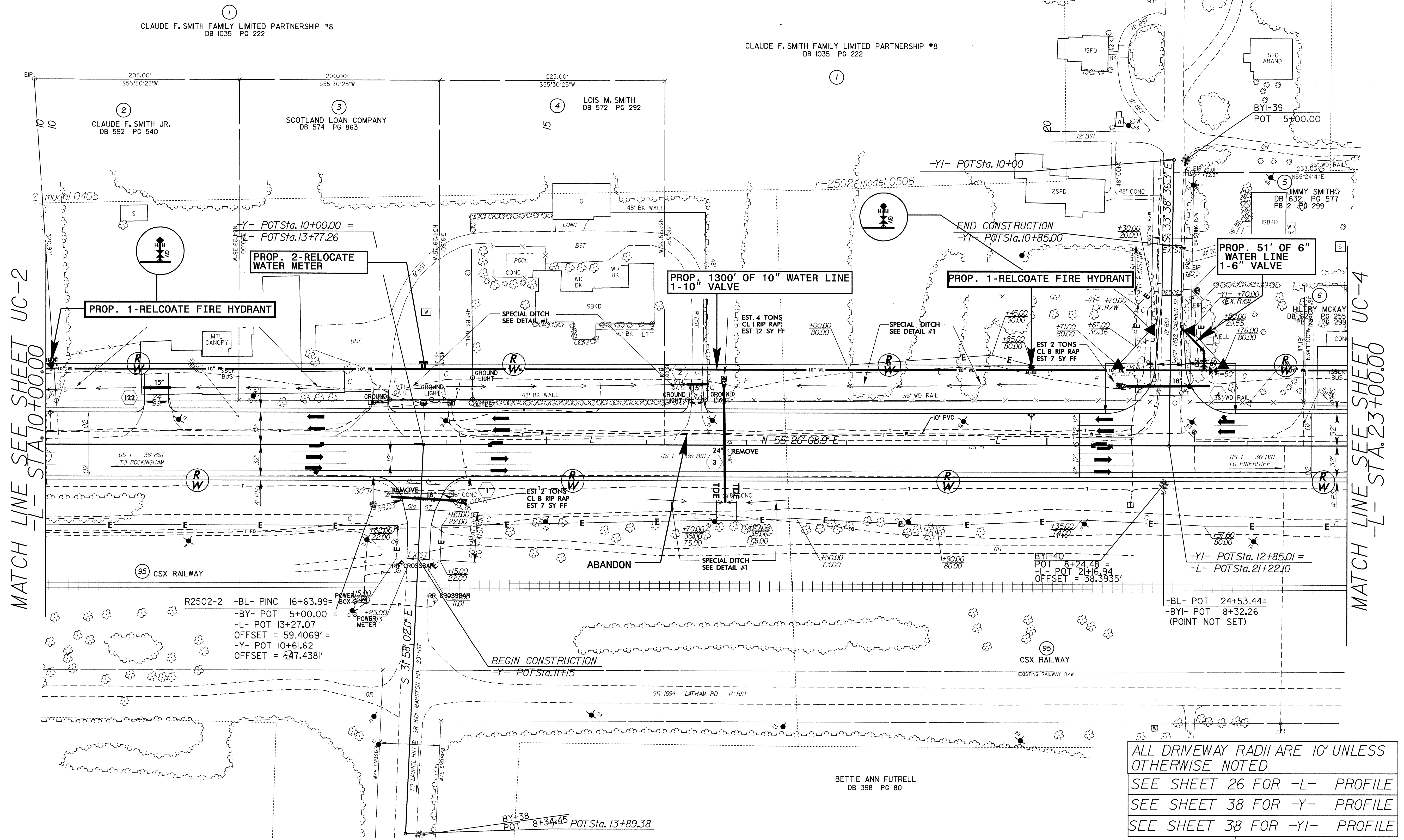
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 26 FOR -L- PROFILE

03-JUN-2008 14:50  
 \\s1101\cadd\psh4\dgn  
 V-2502a.rdy-psh4.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-3
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



UTILITY CONSTRUCTION



MATCH LINE SEE SHEET UC-2  
-L- STA. 10+00.00

MATCH LINE SEE SHEET UC-4  
-L- STA. 23+00.00

1  
CLAUDE F. SMITH FAMILY LIMITED PARTNERSHIP #8  
DB 1035 PG 222

1  
CLAUDE F. SMITH FAMILY LIMITED PARTNERSHIP #8  
DB 1035 PG 222

PROP. 1-RELOCATE FIRE HYDRANT

PROP. 2-RELOCATE WATER METER

PROP. 1300' OF 10" WATER LINE  
1-10" VALVE

PROP. 1-RELOCATE FIRE HYDRANT

PROP. 51' OF 6" WATER LINE  
1-6" VALVE

R2502-2 -BL- PINC 16+63.99=  
-BY- POT 5+00.00 =  
-L- POT 13+27.07  
OFFSET = 59.4069' =  
-Y- POT 10+61.62  
OFFSET = 47.4381'

-BL- POT 24+53.44=  
-BY- POT 8+32.26  
(POINT NOT SET)

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 26 FOR -L- PROFILE  
SEE SHEET 38 FOR -Y- PROFILE  
SEE SHEET 38 FOR -YI- PROFILE

BETTIE ANN FUTRELL  
DB 398 PG 80

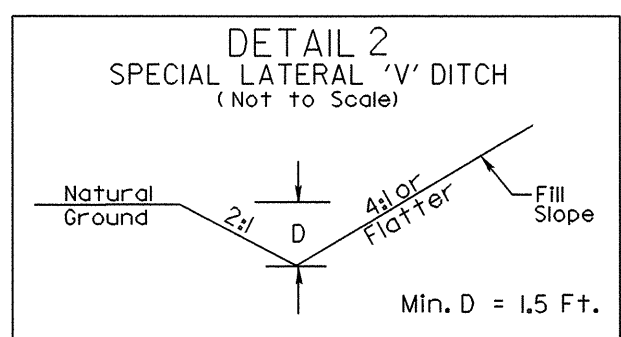
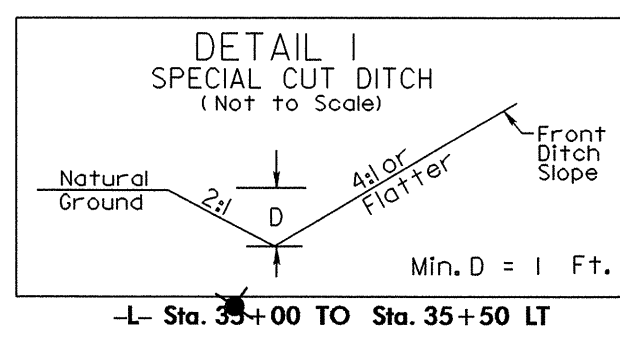
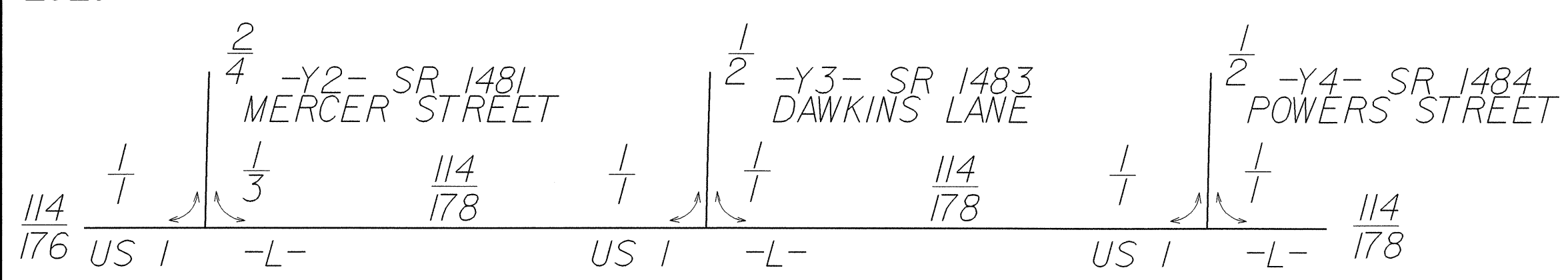
5/14/99

REVISIONS

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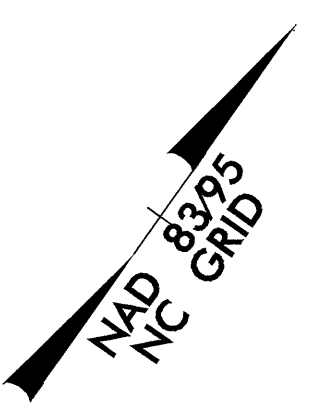
5/14/99

2008 ADT IN HUNDREDS  
2028



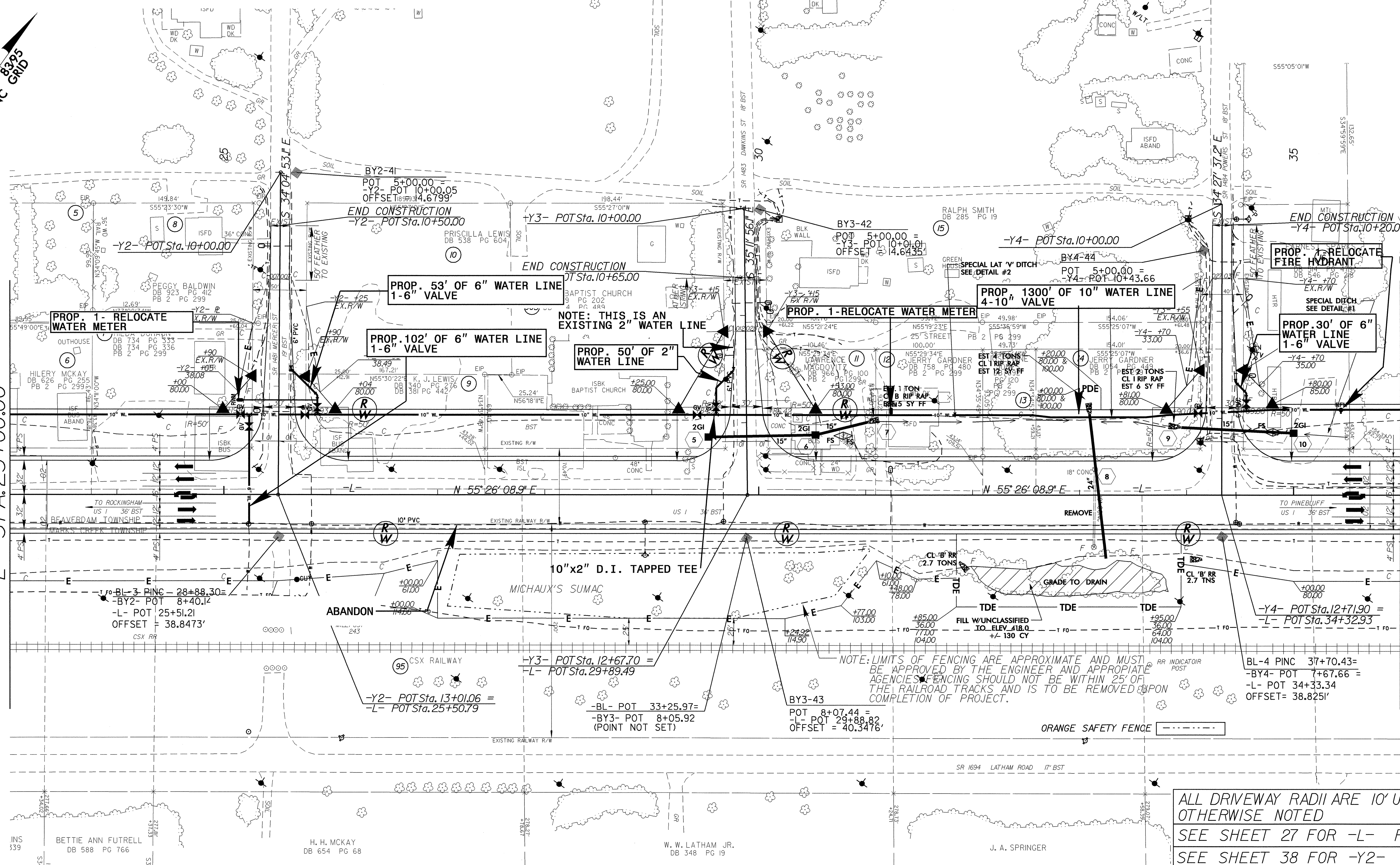
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-4
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION



MATCH LINE SEE SHEET UC-3  
-L- STA. 23+00.00

MATCH LINE SEE SHEET UC-5  
-L- STA. 36+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

SEE SHEET 27 FOR -L- PROFILE

SEE SHEET 38 FOR -Y2- PROFILE

SEE SHEET 38 FOR -Y3- PROFILE

SEE SHEET 38 FOR -Y4- PROFILE

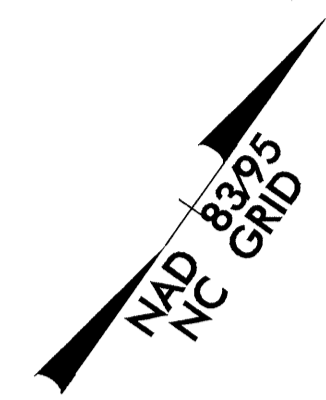
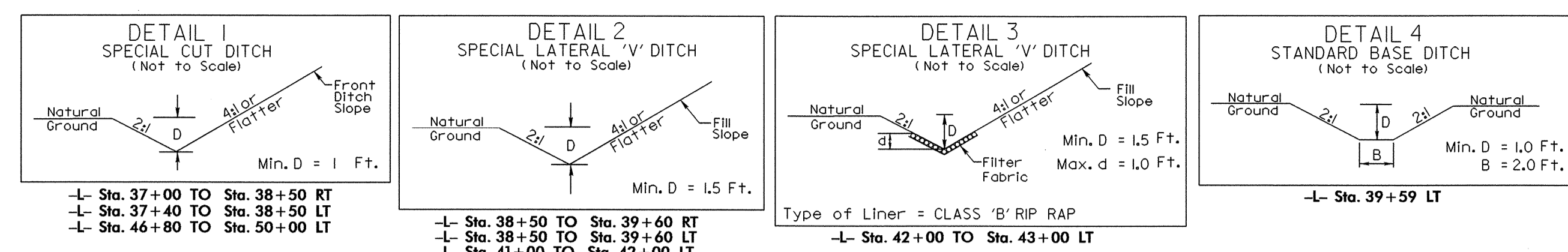
REVISIONS

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5/14/99

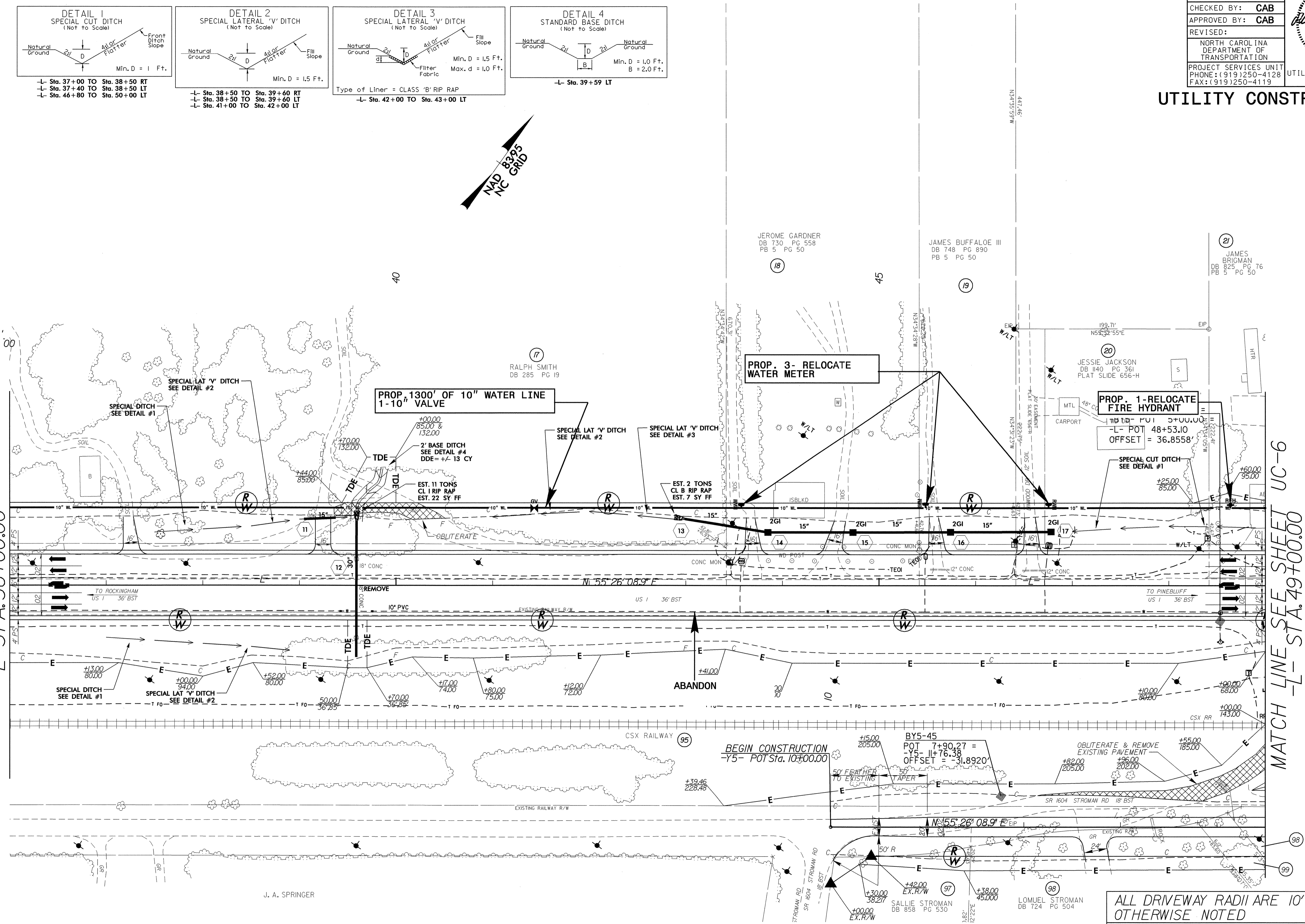
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-5
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION



MATCH LINE SEE SHEET UC-4  
-L- STA. 36+00.00

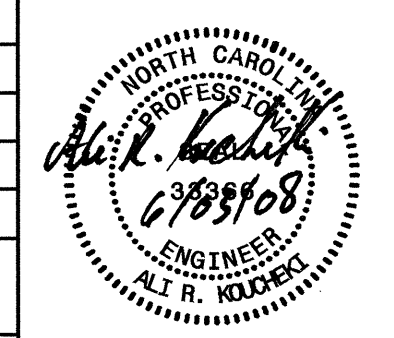
MATCH LINE SEE SHEET UC-6  
-L- STA. 49+00.00



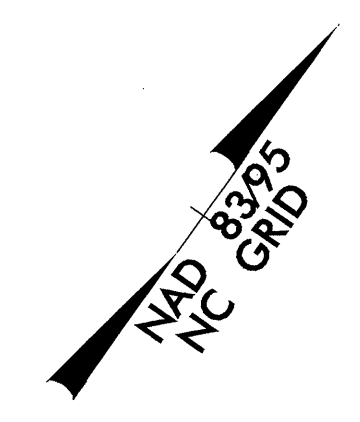
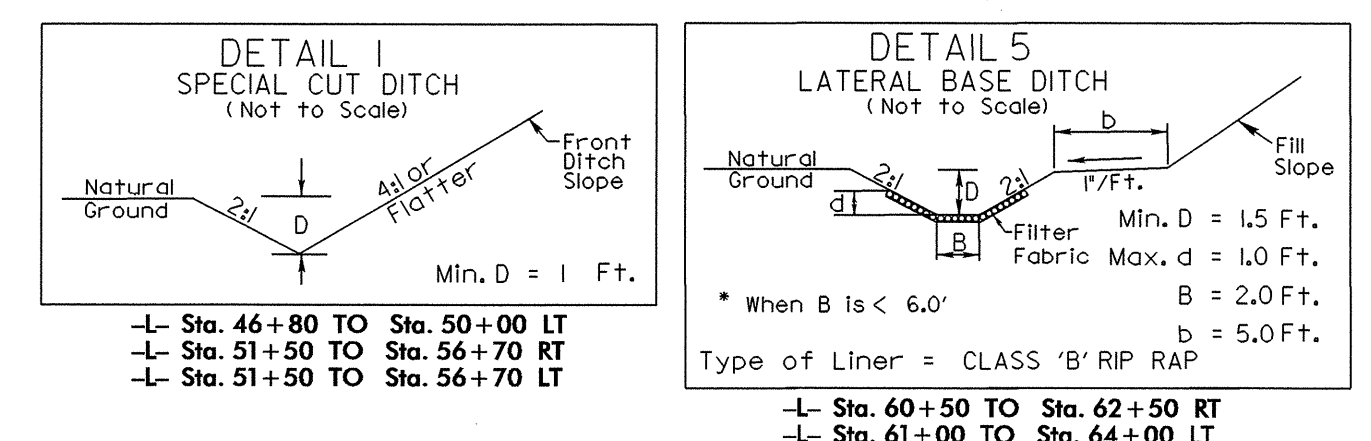
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 27 FOR -L- PROFILE  
 SEE SHEET 38 FOR -Y5- PROFILE

REVISIONS

02-JUN-2008 16:16  
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 170310

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-6
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

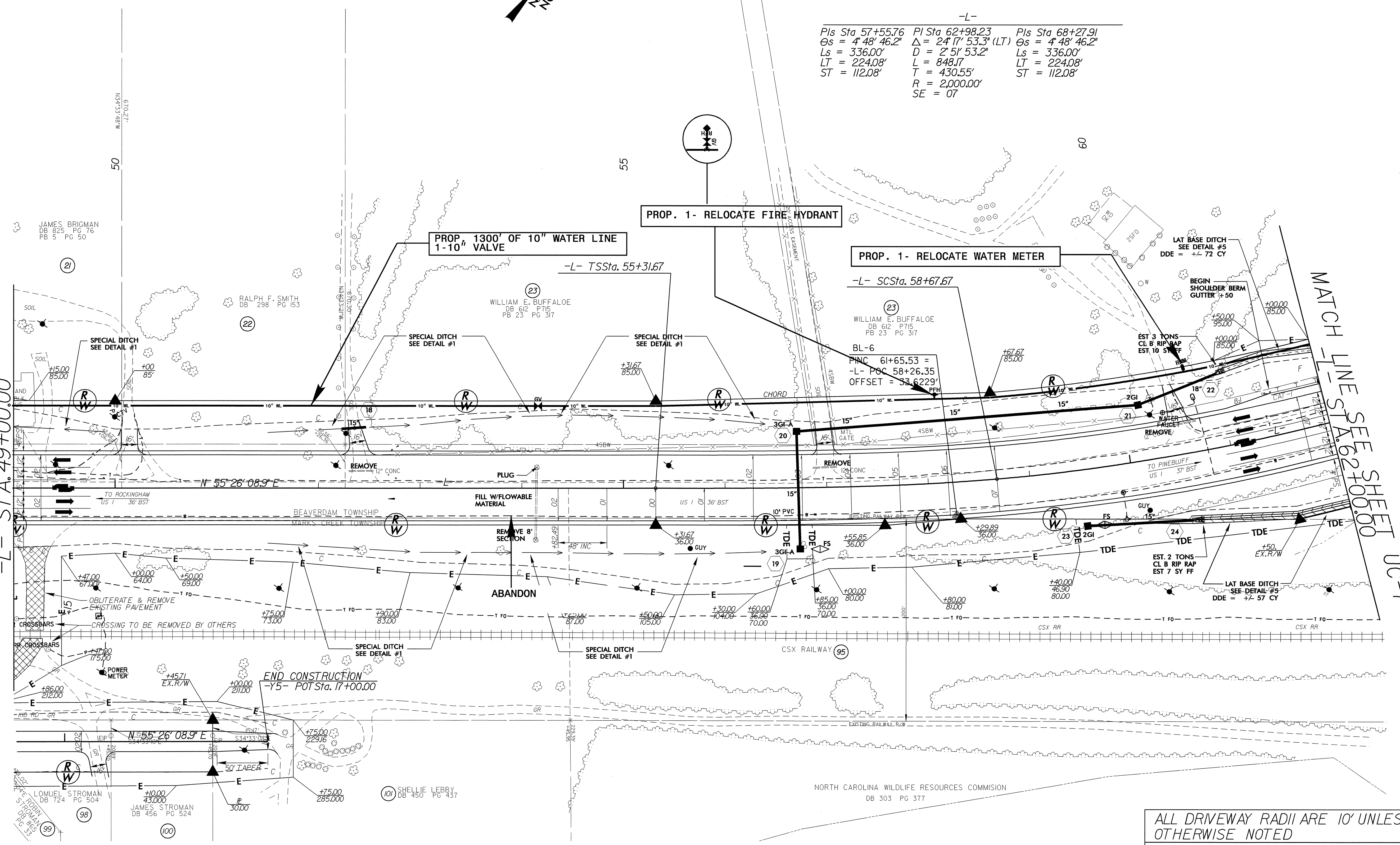
**UTILITY CONSTRUCTION**



-L-  
 Pls Sta 57+55.76 PI Sta 62+98.23 Pls Sta 68+27.91  
 Os = 4' 48" 46.2" Δ = 2' 17" 53.3" (LT) Os = 4' 48" 46.2"  
 Ls = 336.00' D = 2' 51" 53.2" Ls = 336.00'  
 LT = 224.08' L = 848.17 LT = 224.08'  
 ST = 112.08' T = 430.55' ST = 112.08'  
 R = 2,000.00'  
 SE = 07

MATCH LINE SEE SHEET UC-5  
-L- STA. 49+00.00

MATCH LINE SEE SHEET UC-7  
STA. 62+00.00

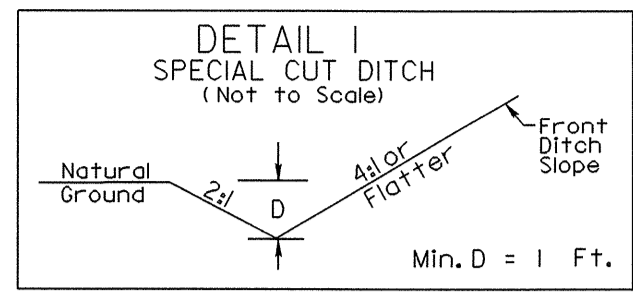
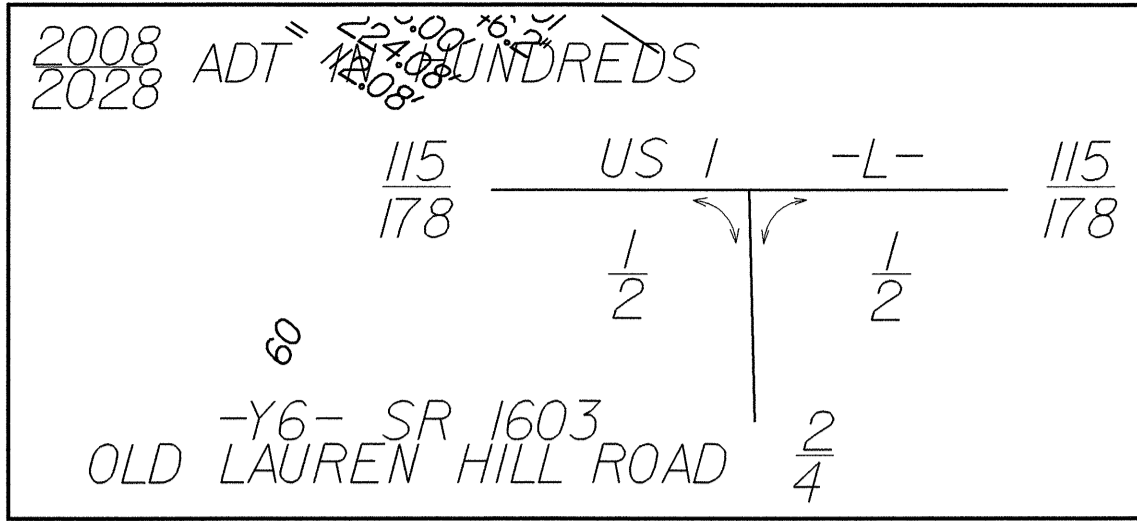


ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 28 FOR -L- PROFILE  
 SEE SHEET 38 FOR -Y5- PROFILE

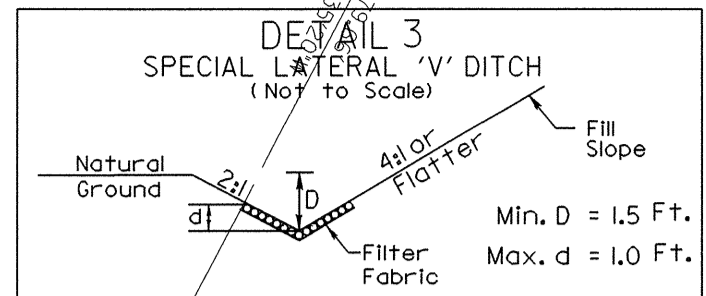
REVISIONS

5/14/99  
03-JUN-2008 07:38  
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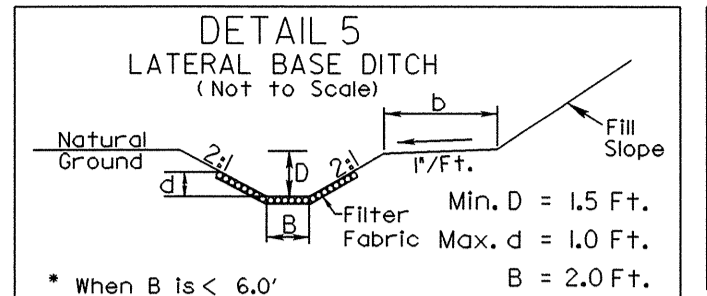
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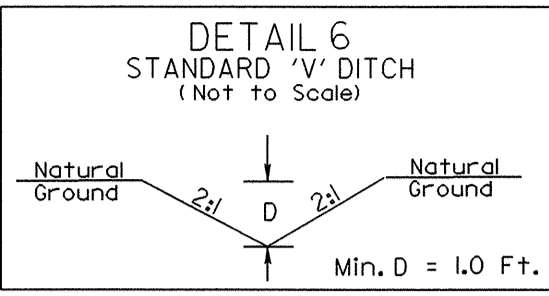
-L- Sta. 70+00 TO Sta. 75+00 RT  
-L- Sta. 70+50 TO Sta. 73+00 LT  
-Y6- Sta. 10+60 TO Sta. 11+50 RT  
-Y6- Sta. 10+60 TO Sta. 11+00 LT



Type of Liner = CLASS 'B' RIP RAP  
-L- Sta. 64+00 TO Sta. 67+50 LT



\* When B is < 6.0'  
Type of Liner = CLASS 'B' RIP RAP  
-L- Sta. 60+50 TO Sta. 62+50 RT  
-L- Sta. 61+00 TO Sta. 64+00 LT  
-L- Sta. 62+70 TO Sta. 64+00 RT

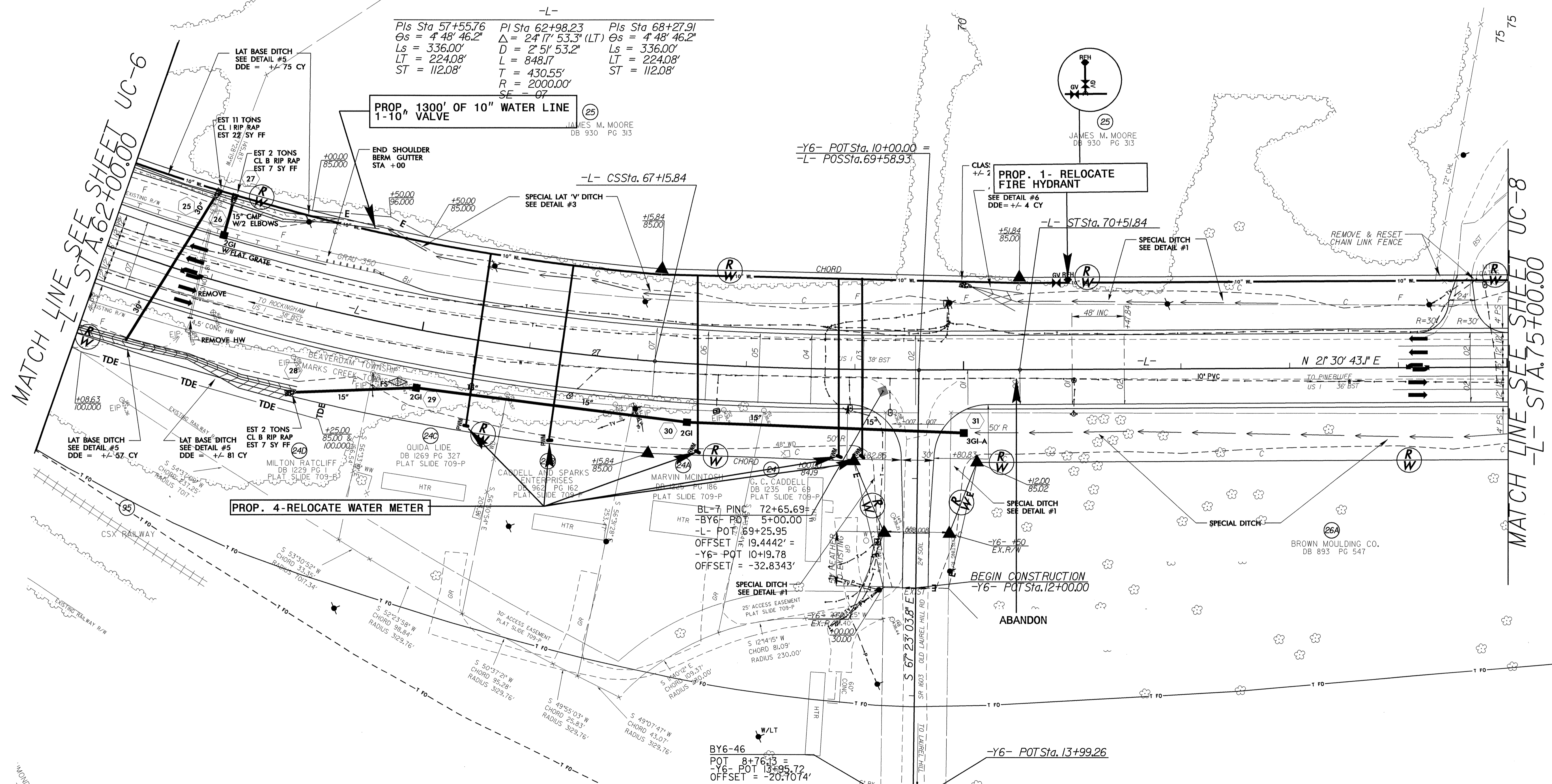


-L- Sta. 70+10 LT



PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-7
DESIGNED BY:	ARK
DRAWN BY:	ARK
CHECKED BY:	CAB
APPROVED BY:	CAB
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



MATCH LINE -L- STA. 62+00.00 UC-6

MATCH LINE -L- STA. 75+00.00 UC-8

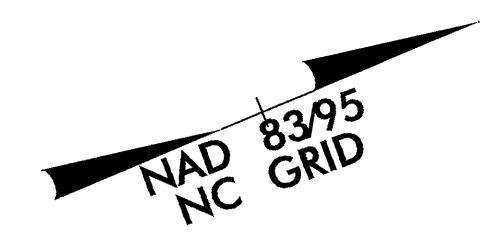
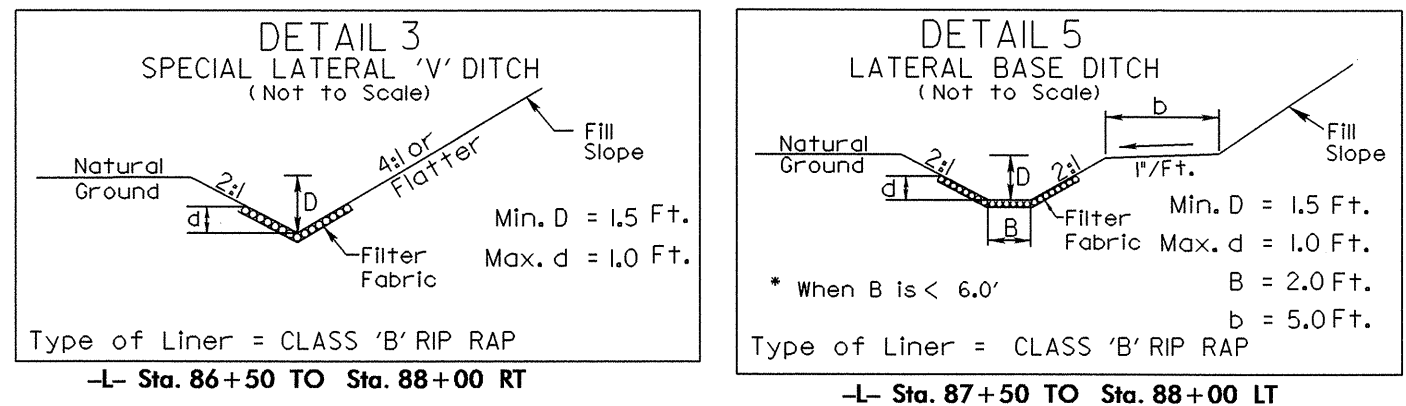
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 28 FOR -L- PROFILE  
SEE SHEET 39 FOR -Y6- PROFILE

02-JUN-2008 16:21  
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WIND COUNTY  
COUNTY

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-8
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

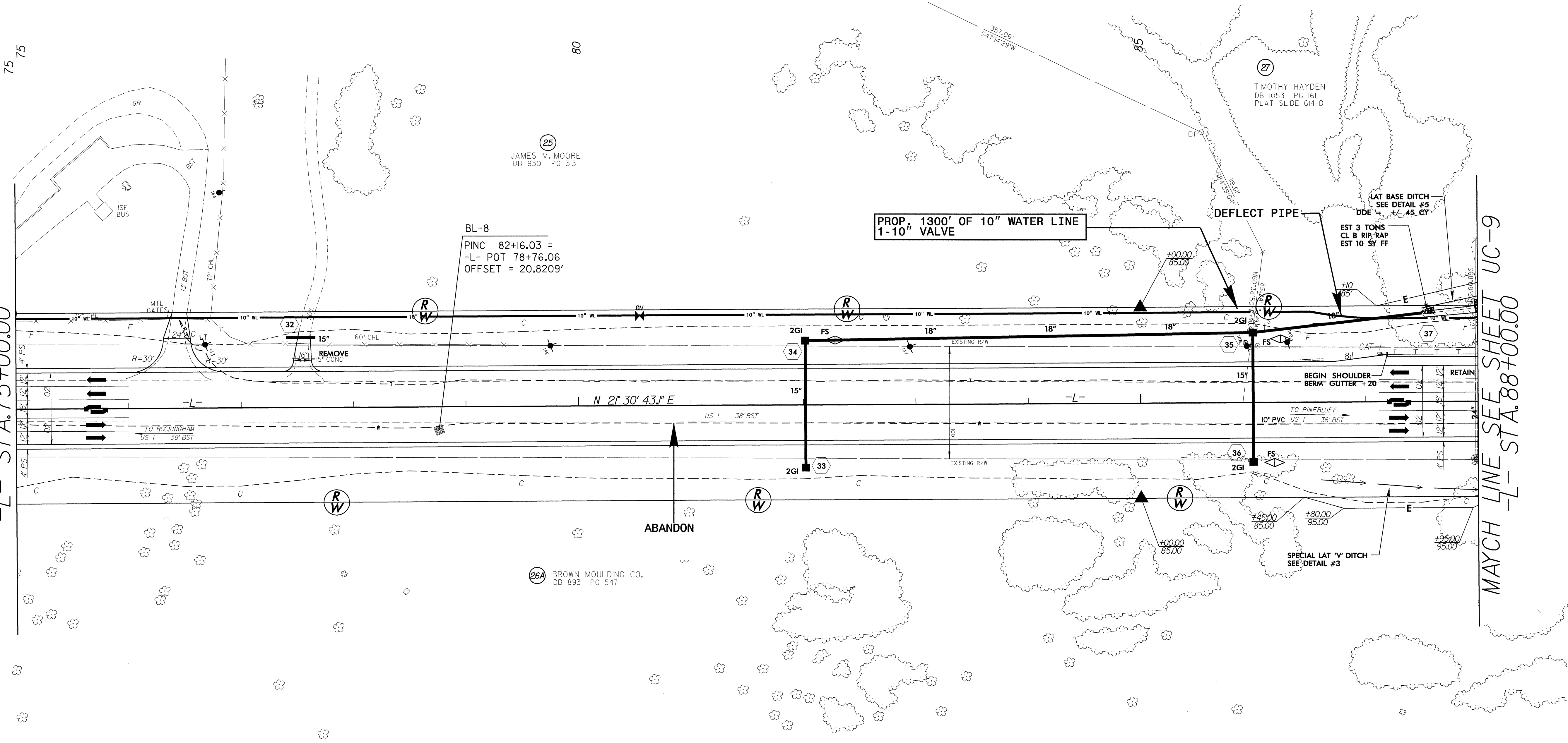


**UTILITY CONSTRUCTION**

REVISIONS

MAYCH LINE SEE SHEET UC-7  
-L- STA. 75+00.00

MAYCH LINE SEE SHEET UC-9  
-L- STA. 88+00.00



BL-8  
PINC 82+16.03 =  
-L- POT 78+76.06  
OFFSET = 20.8209'

PROP. 1300' OF 10" WATER LINE  
1-10" VALVE

DEFLECT PIPE

LAT BASE DITCH  
SEE DETAIL #5  
DDE = +/- 45.00 CY  
EST 3 TONS  
CL B RIP RAP  
EST 10 SY FF

BEGIN SHOULDER  
BERM GUTTER = 20'  
TO PINEBLUFF  
10' PVC US 1 36' BST

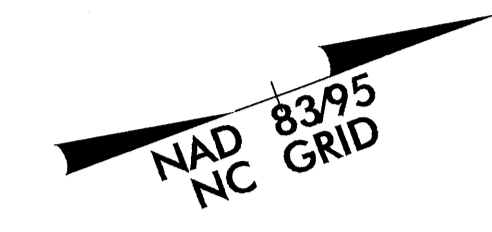
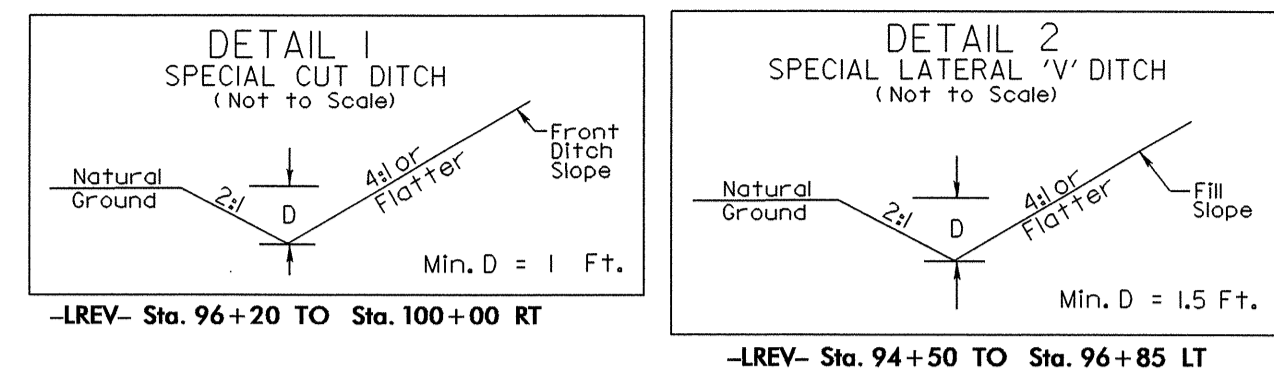
SPECIAL LAT 'V' DITCH  
SEE DETAIL #3

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 29 FOR -L- PROFILE

05-JUN-2008 07:00  
\\fs1\ncad\utility\proj\1\2502a\_rdlj\_psh9.dgn



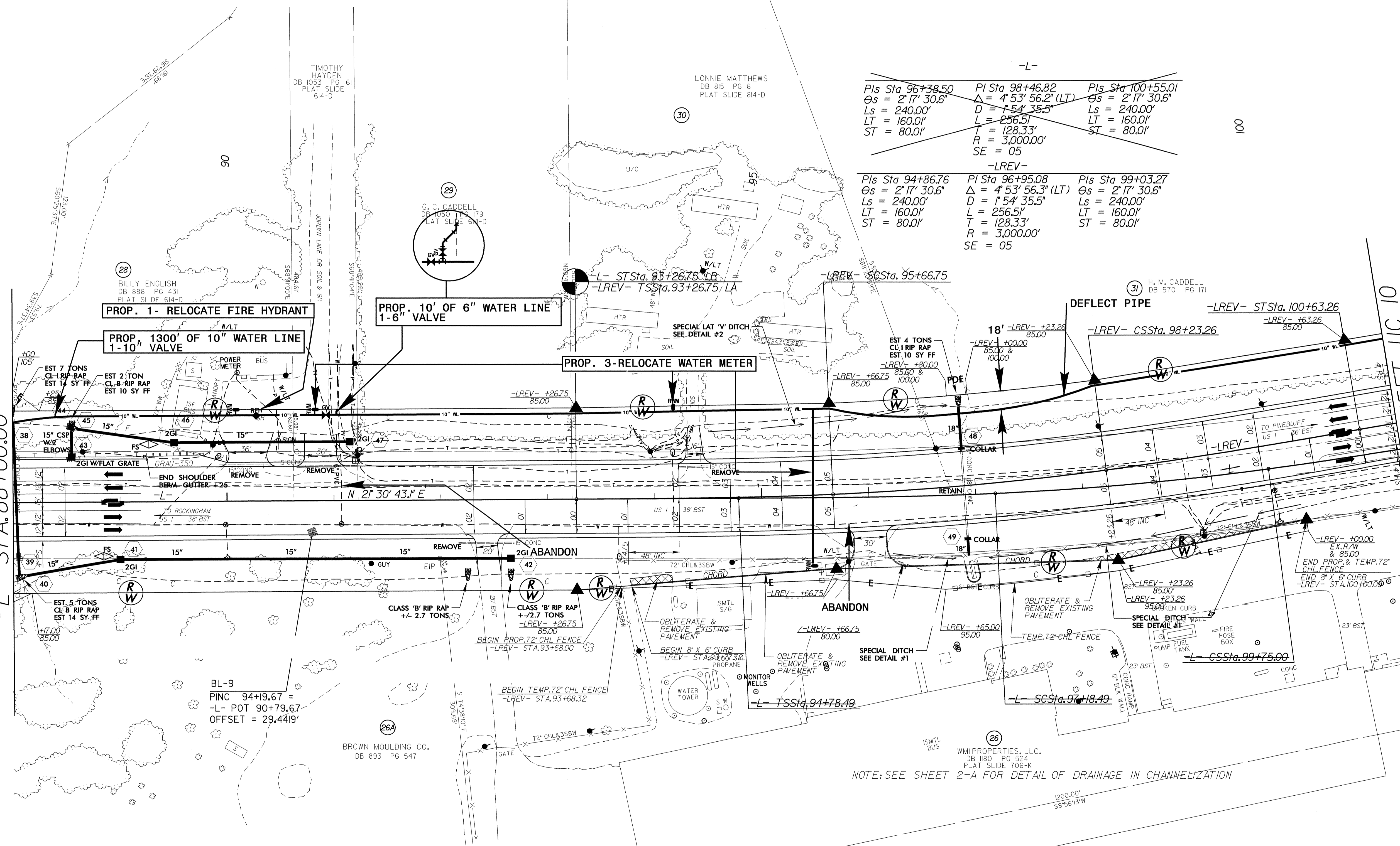
### UTILITY CONSTRUCTION



Pls Sta 96+38.50 $\Theta_s = 2' 17' 30.6''$ $L_s = 240.00'$ $LT = 160.01'$ $ST = 80.01'$	Pl Sta 98+46.82 $\Delta = 4' 53' 56.2'' (LT)$ $D = 1' 54' 35.5''$ $L = 256.51'$ $T = 128.33'$ $R = 3,000.00'$ $SE = 05$	Pls Sta 100+55.01 $\Theta_s = 2' 17' 30.6''$ $L_s = 240.00'$ $LT = 160.01'$ $ST = 80.01'$
-LREV-		
Pls Sta 94+86.76 $\Theta_s = 2' 17' 30.6''$ $L_s = 240.00'$ $LT = 160.01'$ $ST = 80.01'$	Pl Sta 96+95.08 $\Delta = 4' 53' 56.3'' (LT)$ $D = 1' 54' 35.5''$ $L = 256.51'$ $T = 128.33'$ $R = 3,000.00'$ $SE = 05$	Pls Sta 99+03.27 $\Theta_s = 2' 17' 30.6''$ $L_s = 240.00'$ $LT = 160.01'$ $ST = 80.01'$

MATCH LINE SEE SHEET UC-8  
-L- STA. 88+00.00

MATCH LINE -LREV- STA. 101+00.00 SEE SHEET UC 10



NOTE: SEE SHEET 2-A FOR DETAIL OF DRAINAGE IN CHANNELIZATION

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 29 FOR -L- PROFILE  
 SEE SHEET 29 FOR -LREV- PROFILE

5/14/99

REVISIONS

03-JUN-2008 01:04  
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-10
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION



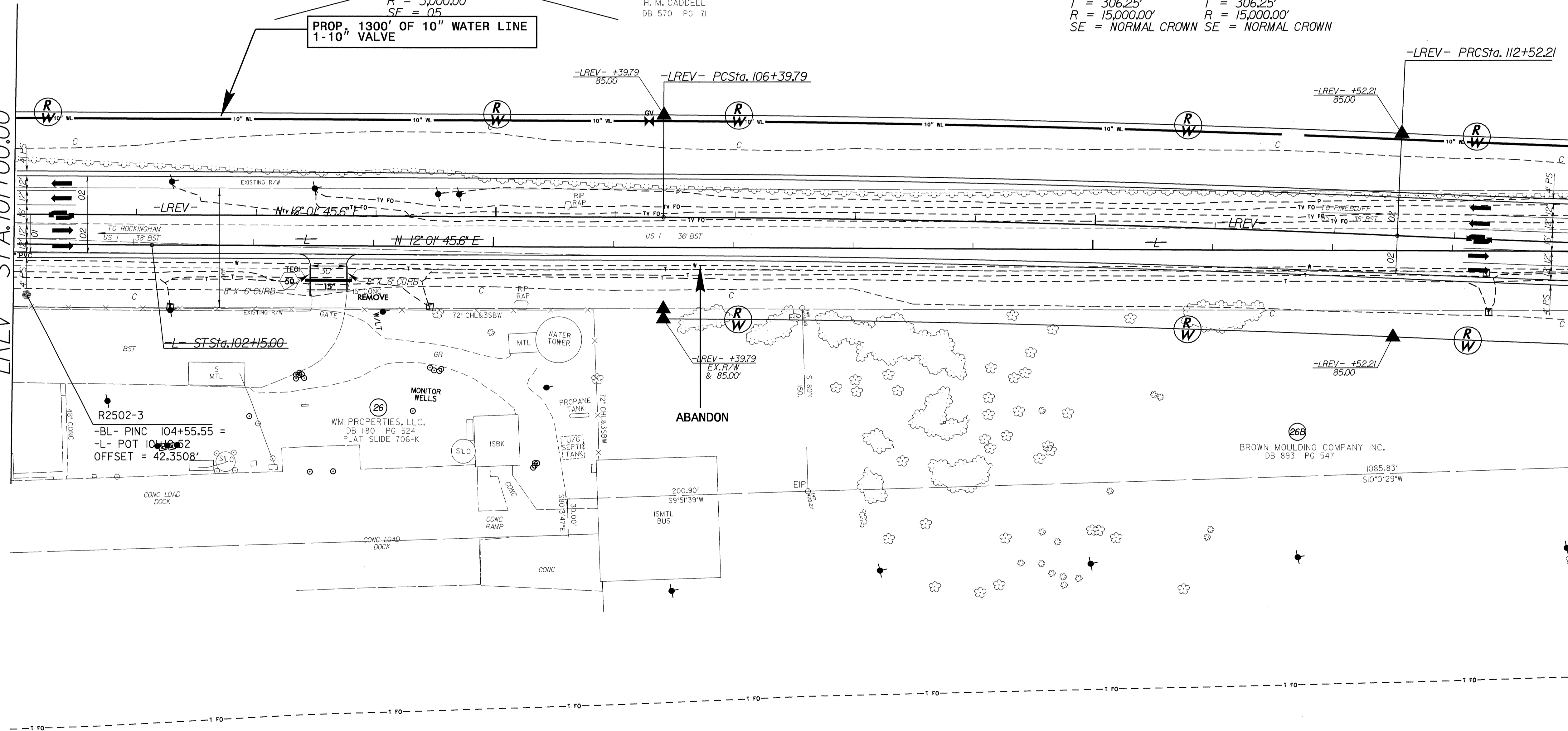
~~-L-  
 Pls Sta 96+38.50 PI Sta 98+46.82 Pls Sta 100+55.01  
 Os = 2' 17' 30.6" Δ = 4' 53' 56.2" (LT) Os = 2' 17' 30.6"  
 Ls = 240.00' D = 1' 54' 35.5" Ls = 240.00'  
 LT = 160.01' L = 256.31' LT = 160.01'  
 ST = 80.01' T = 128.33' ST = 80.01'  
 R = 3,000.00' SF = 0.5~~

-LREV-  
 Pls Sta 109+46.04 PI Sta 115+58.45  
 Δ = 2' 20' 21.3" (RT) Δ = 2' 20' 21.3" (LT)  
 D = 0' 22' 55.1" D = 0' 22' 55.1"  
 L = 612.41' L = 612.41'  
 T = 306.25' T = 306.25'  
 R = 15,000.00' R = 15,000.00'  
 SE = NORMAL CROWN SE = NORMAL CROWN

PROP. 1300' OF 10" WATER LINE  
1-10" VALVE

MATCH LINE SEE SHEET UC-9  
-LREV- STA. 101+00.00

MATCH LINE SEE SHEET UC-11  
-LREV- STA. 114+00.00

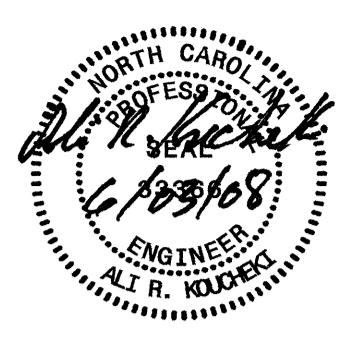


REVISIONS

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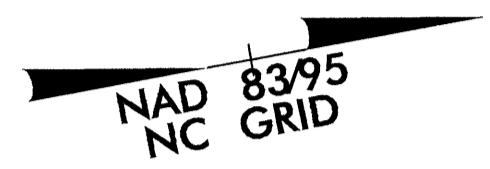
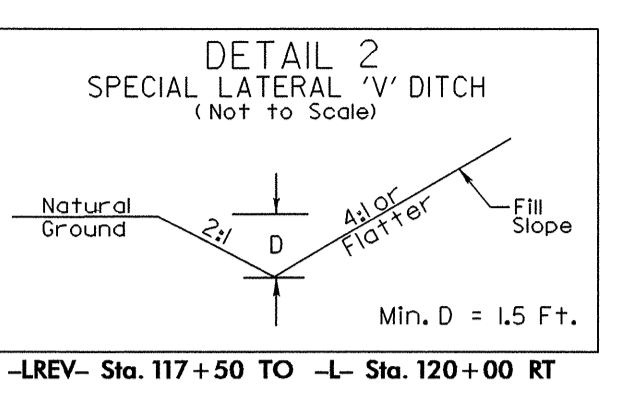
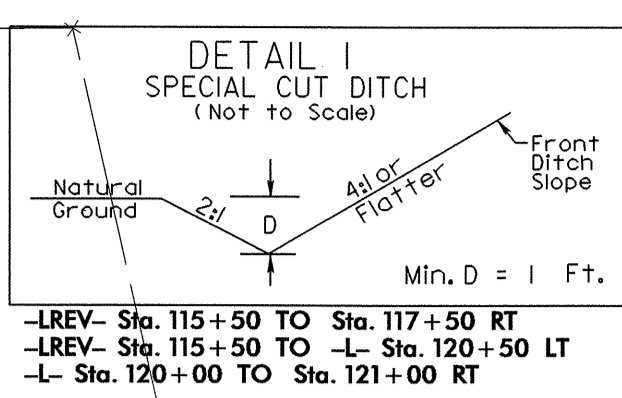
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 30 FOR -LREV- PROFILE

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-11
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION

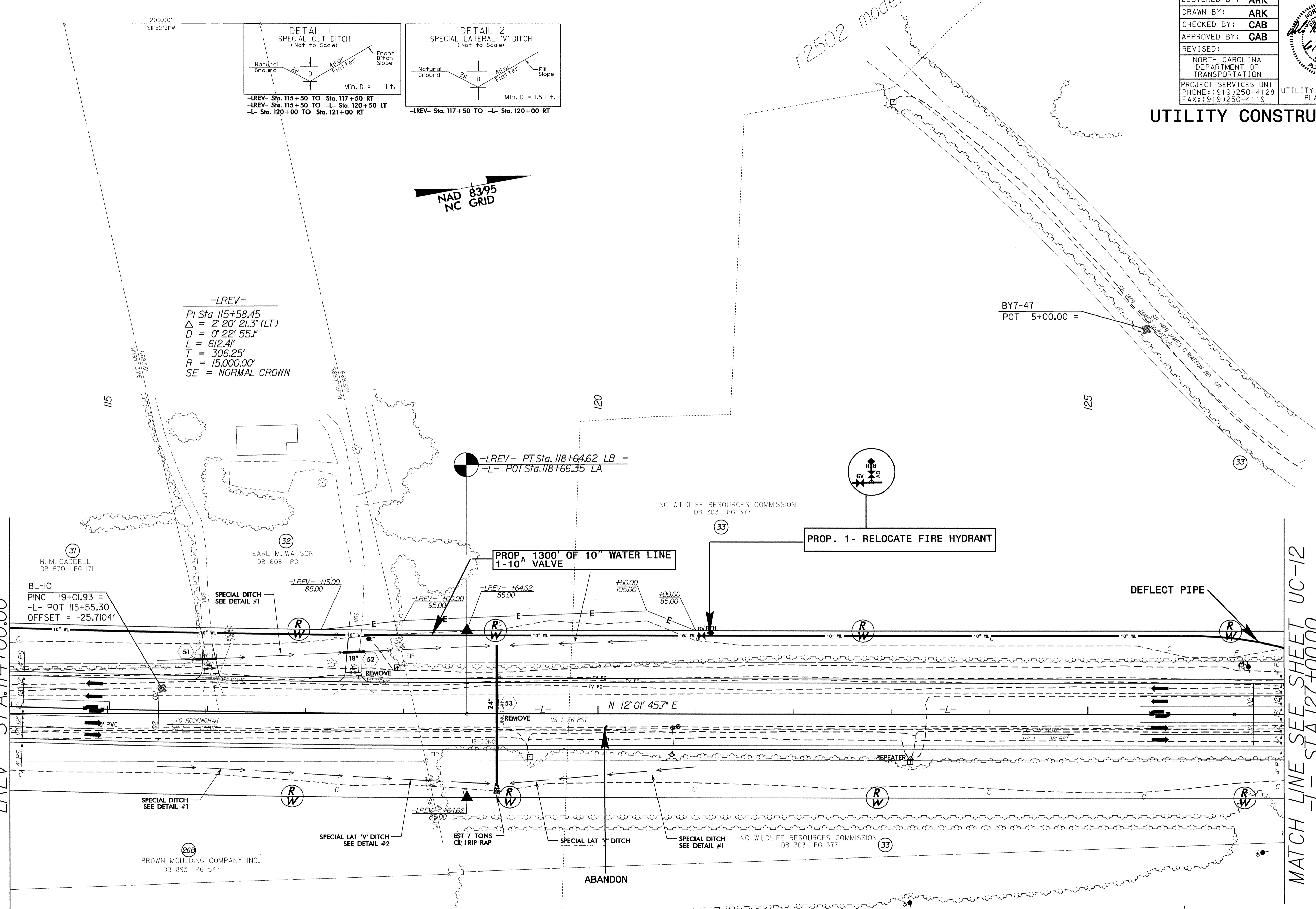
r2502 model 2122



-LREV-  
PI Sta 115+58.45  
 $\Delta = 2' 20' 21.3''$  (LT)  
D = 0' 22' 55.1''  
L = 612.41'  
T = 306.25'  
R = 15,000.00'  
SE = NORMAL CROWN

MATCH LINE SEE SHEET UC-10  
-LREV- STA. 114+00.00

MATCH LINE SEE SHEET UC-12  
-L- STA. 127+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 30 FOR -L- PROFILE  
SEE SHEET 30 FOR -LREV- PROFILE

REVISIONS

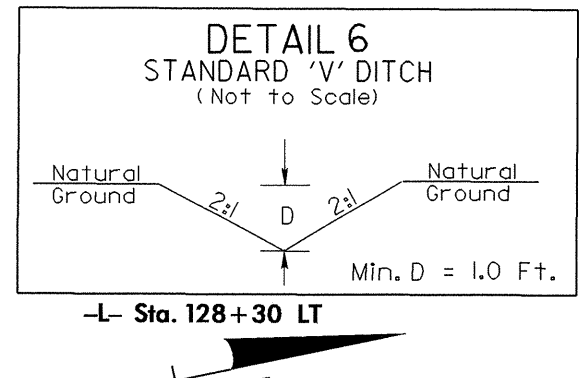
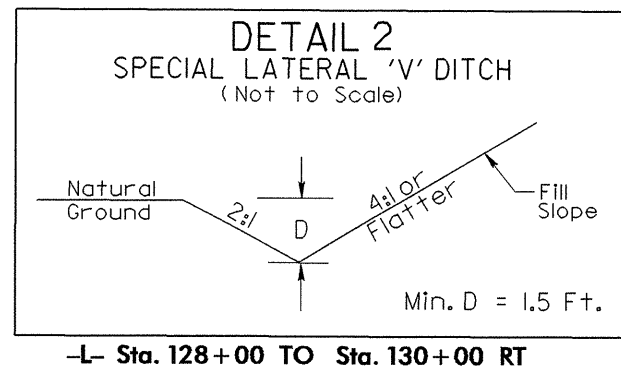
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5/14/99

2008 ADT IN HUNDREDS  
2028

-Y7- SR 1479  
JAMES G. WATSON RD

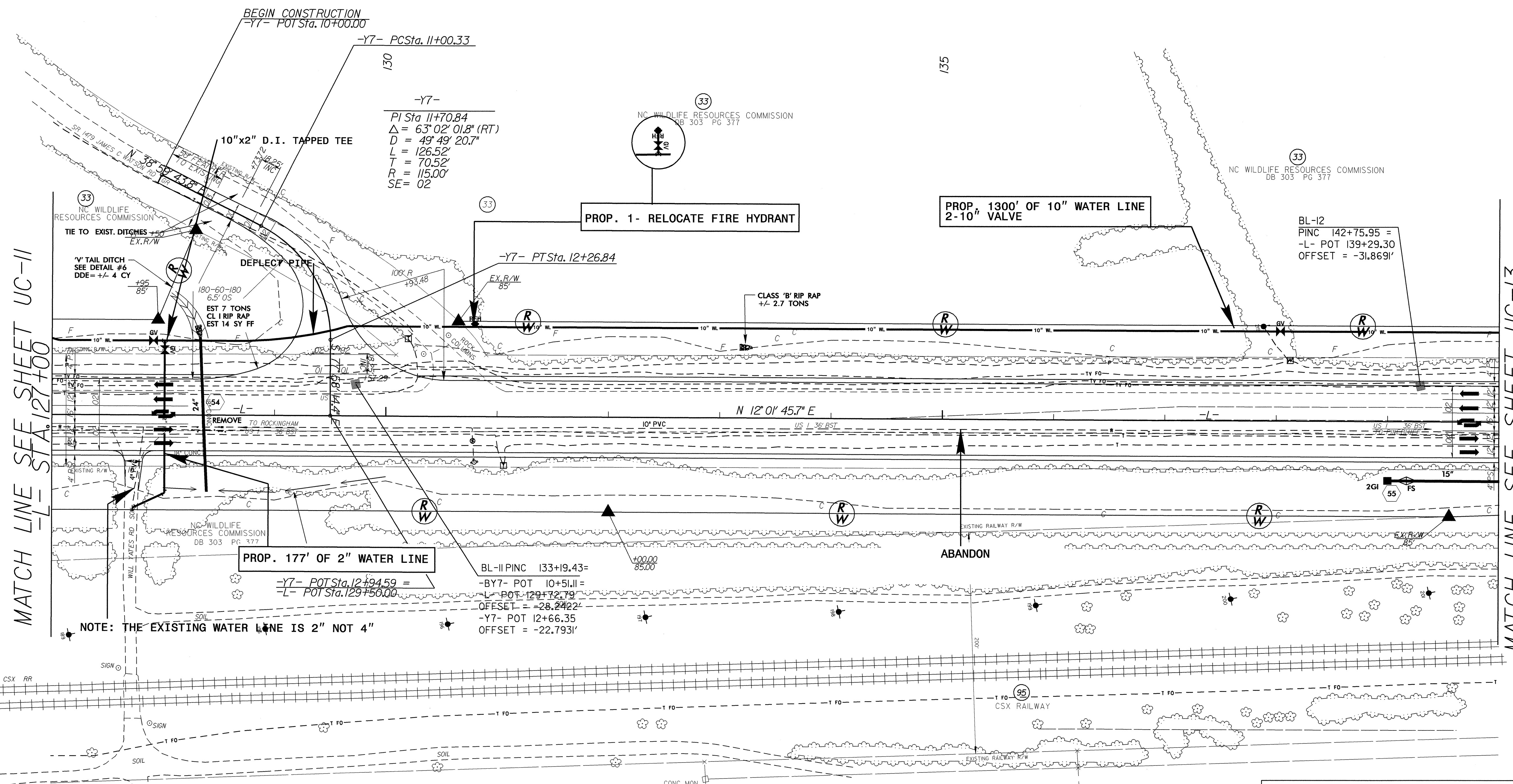
115 115  
178 US 1 -L- 179



NAD 83/95  
NC GRID

PROJECT REFERENCE NO. <b>R-2502A</b>	SHEET NO. <b>UC-12</b>
DESIGNED BY: <b>ARK</b>	
DRAWN BY: <b>ARK</b>	
CHECKED BY: <b>CAB</b>	
APPROVED BY: <b>CAB</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**



MATCH LINE SEE SHEET UC-11  
-L- STA. 127+00

MATCH LINE SEE SHEET UC-13  
-L- STA. 140+00


NOTE: THE EXISTING WATER LINE IS 2" NOT 4"

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 31 FOR -L- PROFILE  
SEE SHEET 39 FOR -Y7- PROFILE

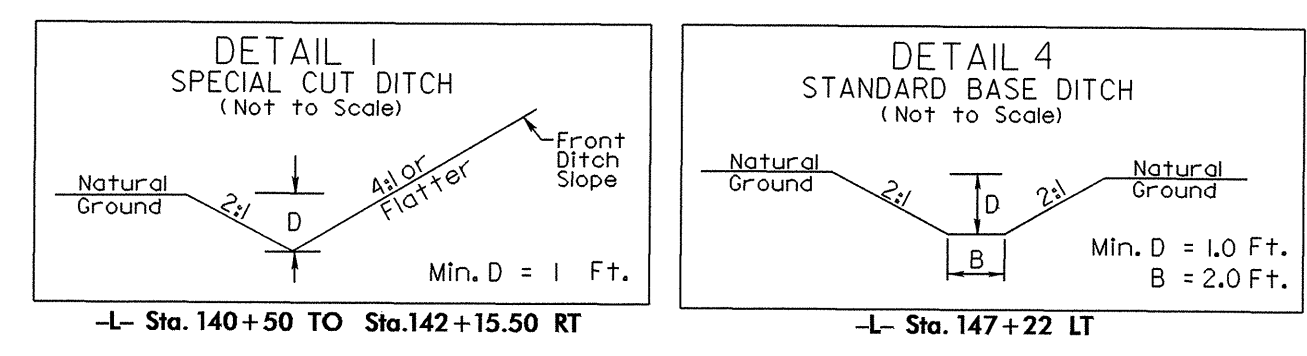
REVISIONS

02-JUN-2008 16:33  
\\s3311\proj\2502a\RDY\_psh13.dgn

5/14/99

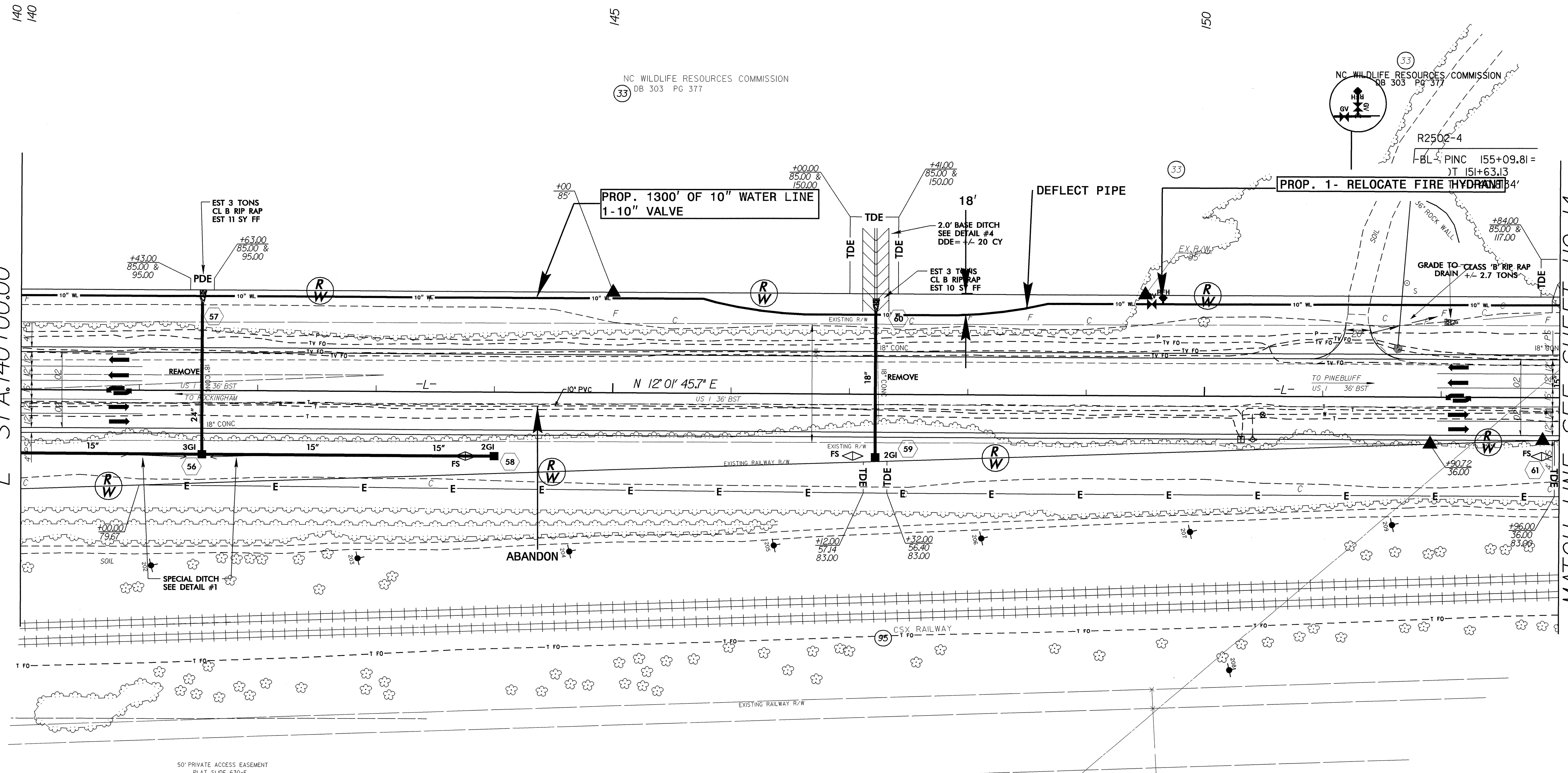
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-13
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISID:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION



MATCH LINE -L- SEE SHEET UC-12  
-L- STA. 140+00.00

MATCH LINE -L- SEE SHEET UC-14  
-L- STA. 153+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 31 FOR -L- PROFILE

REVISIONS

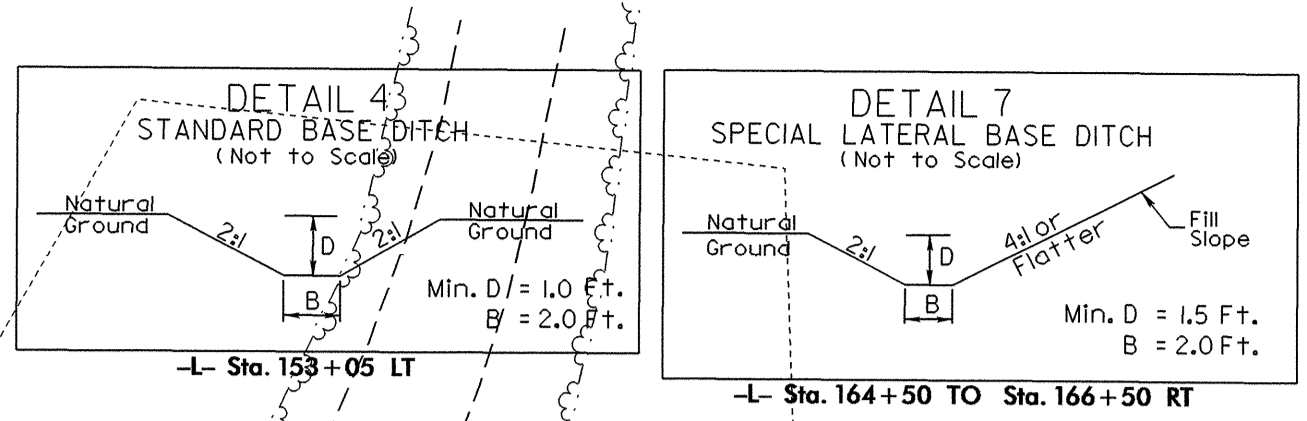
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-14
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION

NAD 8395  
NC GRID



1526

MARY GRACE HAWKINS  
DB 532 PG 228  
(35)

T. ROBERT SCARBOROUGH  
DB 578 PG 43  
(35)

(33)  
155  
NC WILDLIFE RESOURCES COMMISSION  
DB 303 PG 377

r-2502 model 2627

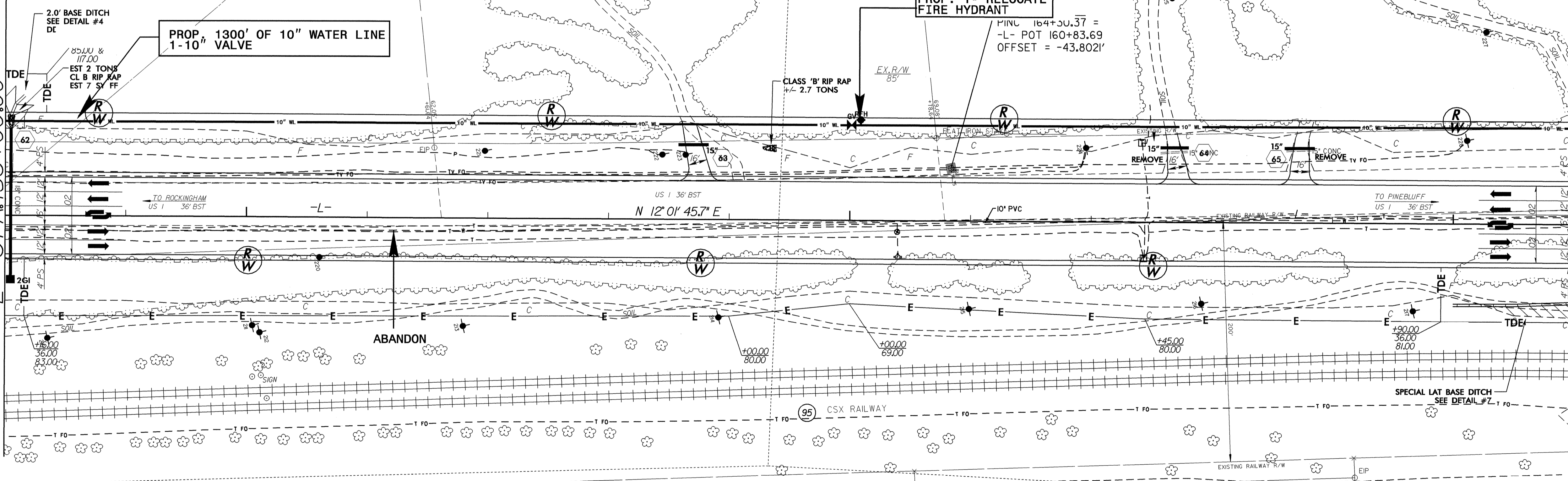
(33)  
NC WILDLIFE RESOURCES COMMISSION  
DB 303 PG 377

MATCH LINE SEE SHEET UC-13  
-L- STA. 153+00.00

MATCH LINE SEE SHEET UC-15  
-L- STA. 166+00.00

PROP. 1300' OF 10" WATER LINE  
1-10" VALVE

PROP. 1- RELOCATE  
FIRE HYDRANT  
PINC 164+30.37 =  
-L- POT 160+83.69  
OFFSET = -43.8021'



REVISIONS

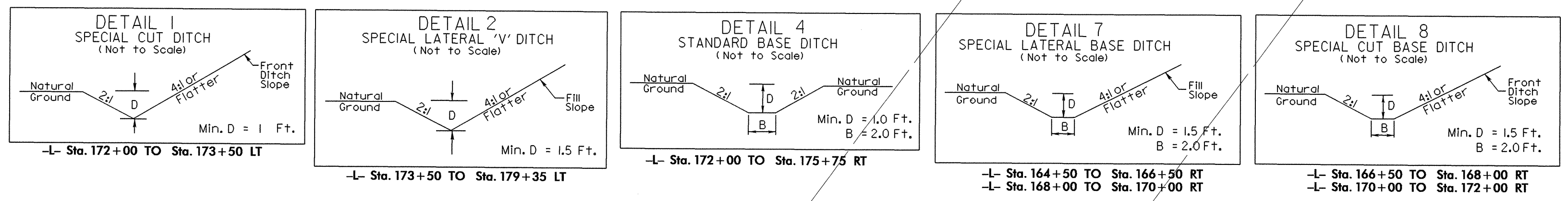
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THOMAS L. TIGHE  
DB 984 PG 258

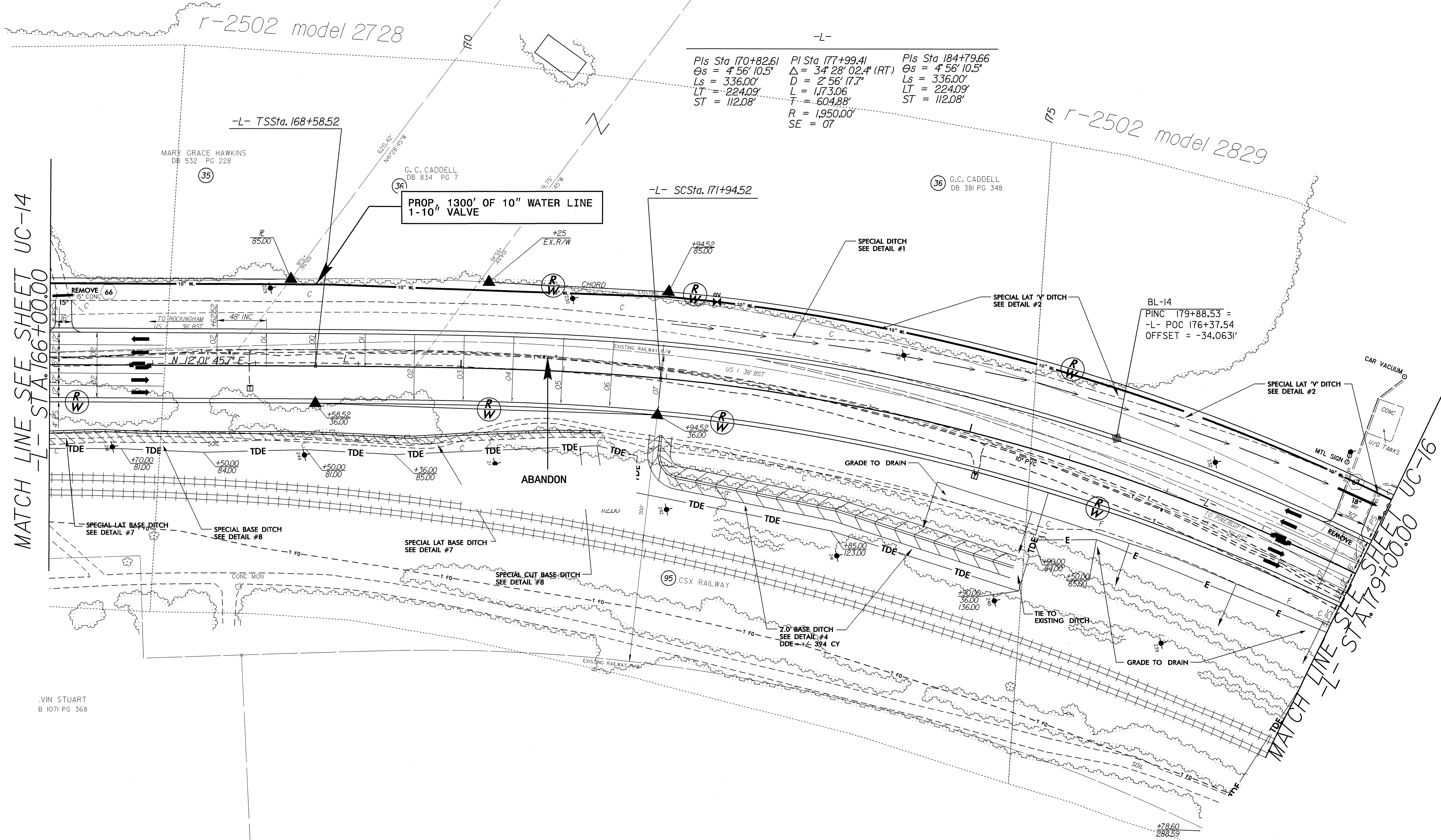
ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 32 FOR -L- PROFILE

NAD 83/95  
NC GRID

UTILITY CONSTRUCTION



-L-  
 Pls Sta 170+82.61 PI Sta 177+99.41 Pls Sta 184+79.66  
 $\Theta_s = 4' 56'' 10.5''$   $\Delta = 34' 28'' 02.4''$  (RT)  $\Theta_s = 4' 56'' 10.5''$   
 $L_s = 336.00'$   $D = 2' 56'' 17.7''$   $L_s = 336.00'$   
 $LT = 224.09'$   $L = 1173.06'$   $LT = 224.09'$   
 $ST = 112.08'$   $T = 604.88'$   $ST = 112.08'$   
 $R = 1,950.00'$   
 $SE = 07'$



MATCH LINE SEE SHEET UC-14  
-L- STA. 166+00.00

MATCH LINE SEE SHEET UC-16  
-L- STA. 179+00.00

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 32 FOR -L- PROFILE

VIN STUART  
B 1071 PG 368

NORTH CAROLINA WILDLIFF  
DB 30

# UTILITY CONSTRUCTION

Pls Sta 170+82.61 PI Sta 177+99.41  
 $\Delta s = 4' 56'' 10.5''$   $\Delta = 34' 28'' 02.4''$  (RT)  
 $Ls = 336.00'$   $D = 2' 56'' 17.7''$   
 $LT = 224.09'$   $L = 173.06'$   
 $ST = 112.08'$   $T = 604.88'$   
 $R = 1950.00'$   
 $SE = 07'$

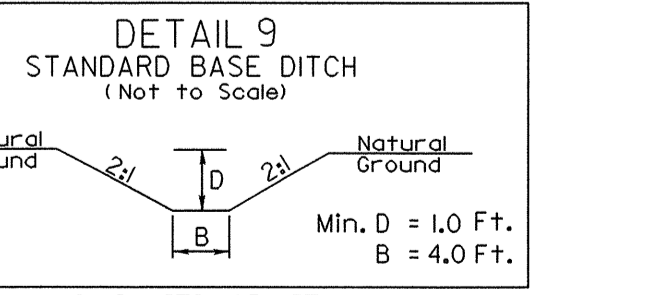
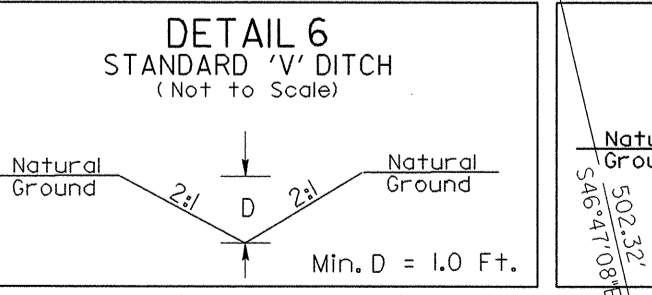
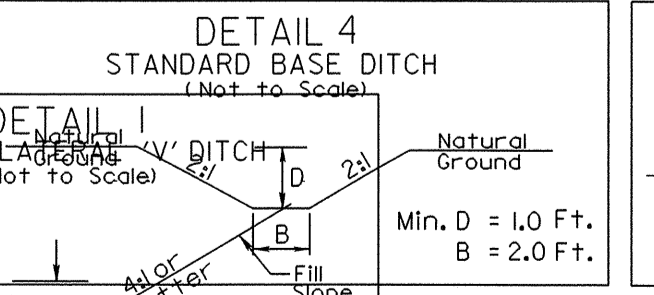
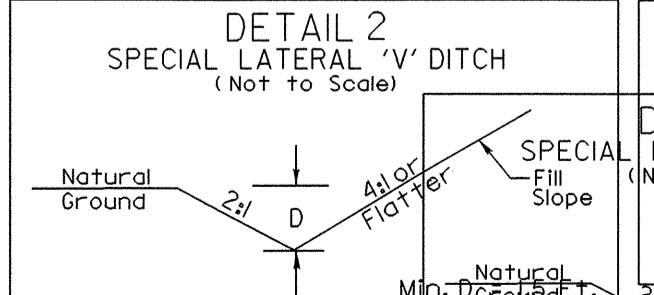
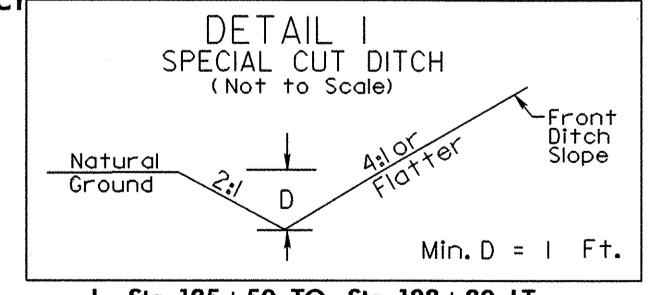
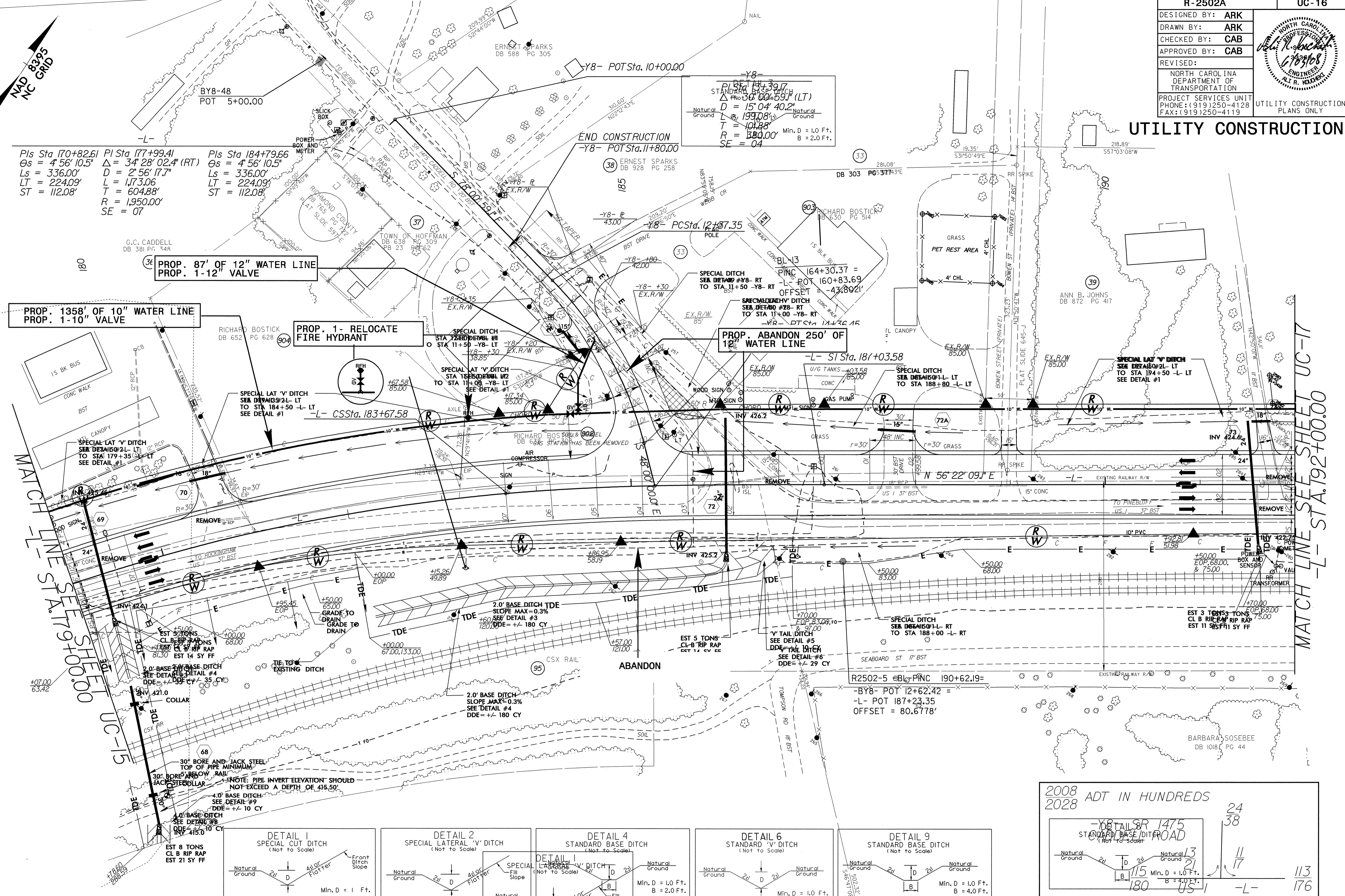
Pls Sta 184+79.66  
 $\Delta s = 4' 56'' 10.5''$   
 $Ls = 336.00'$   
 $LT = 224.09'$   
 $ST = 112.08'$   
 $R = 1950.00'$   
 $SE = 07'$

PROP. 1358' OF 10" WATER LINE  
 PROP. 1-10" VALVE

PROP. 87' OF 12" WATER LINE  
 PROP. 1-12" VALVE

PROP. 1- RELOCATE FIRE HYDRANT

PROP. ABANDON 250' OF 12" WATER LINE



2008 ADT IN HUNDREDS

1475	24
1475	38
115	11
180	113
176	176


ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 33 FOR -L- PROFILE  
 SEE SHEET 39 FOR -Y8- PROFILE

SEE SHEET 2-D FOR R/W ALIGNMENT DATA

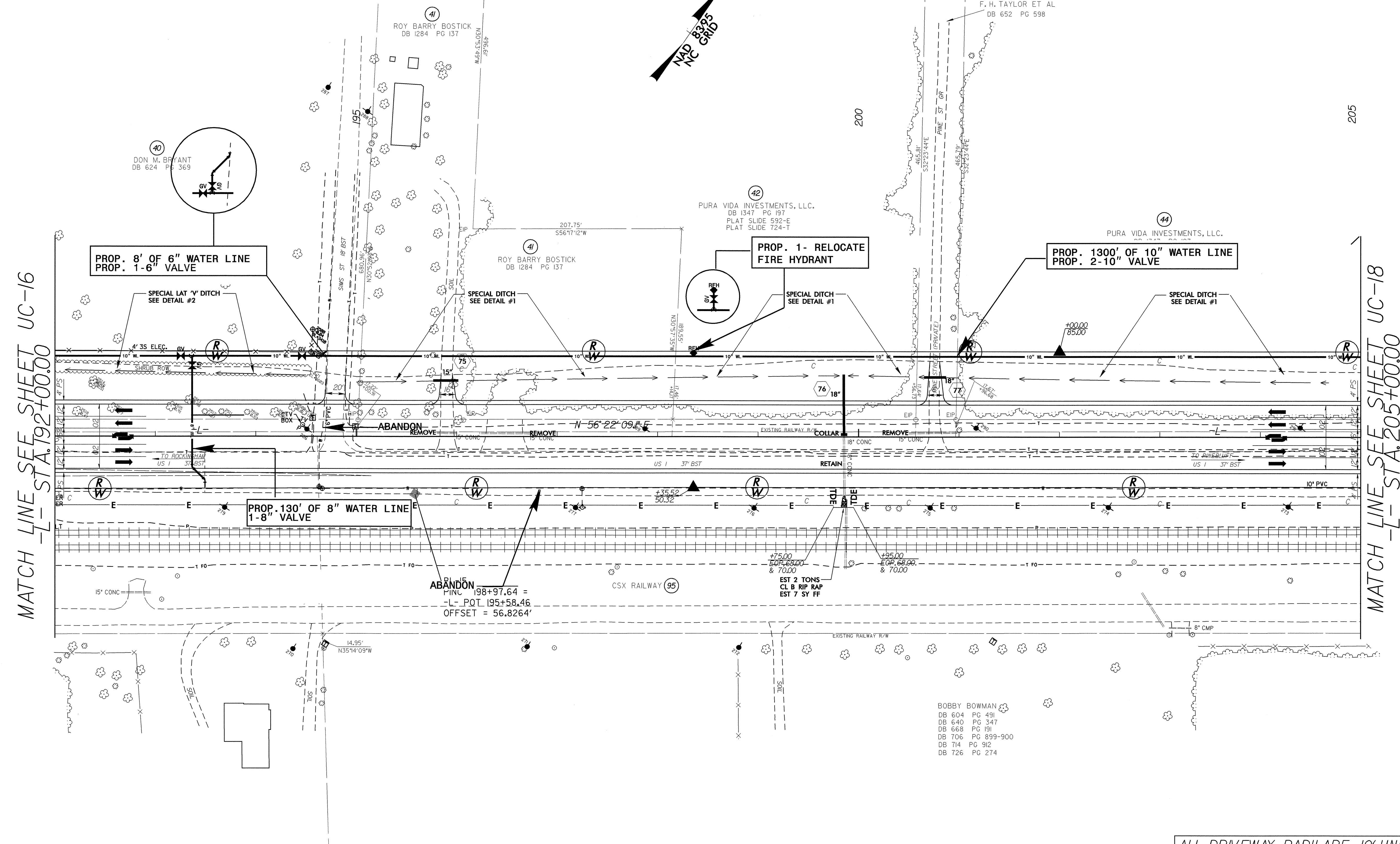
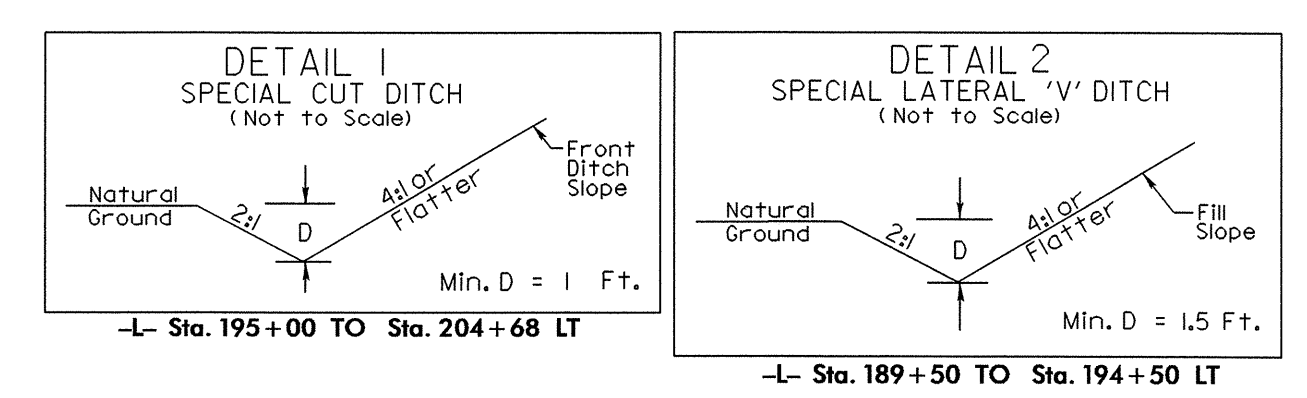
REVISIONS

02-JUN-2008 16:42  
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 WILDLIFE RESOURCE COMMISSION  
 PG 399



PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-17
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**



MATCH LINE SEE SHEET UC-16  
-L- STA. 192+00.00

MATCH LINE SEE SHEET UC-18  
-L- STA. 205+00.00

REVISIONS

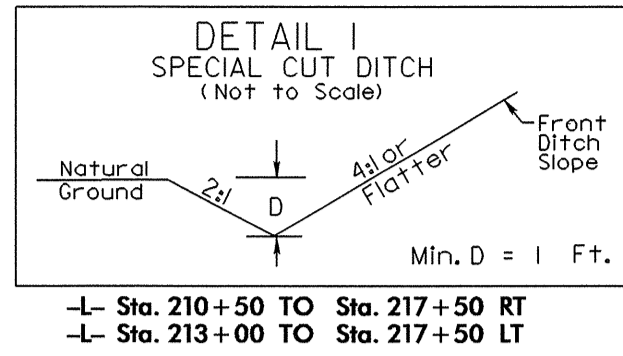
03-JUN-2008 08:00  
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BOBBY BOWMAN  
DB 604 PG 49  
DB 640 PG 347  
DB 668 PG 191  
DB 706 PG 899-900  
DB 714 PG 912  
DB 726 PG 274

SEE SHEET 2-E FOR R/W ALIGNMENT DATA

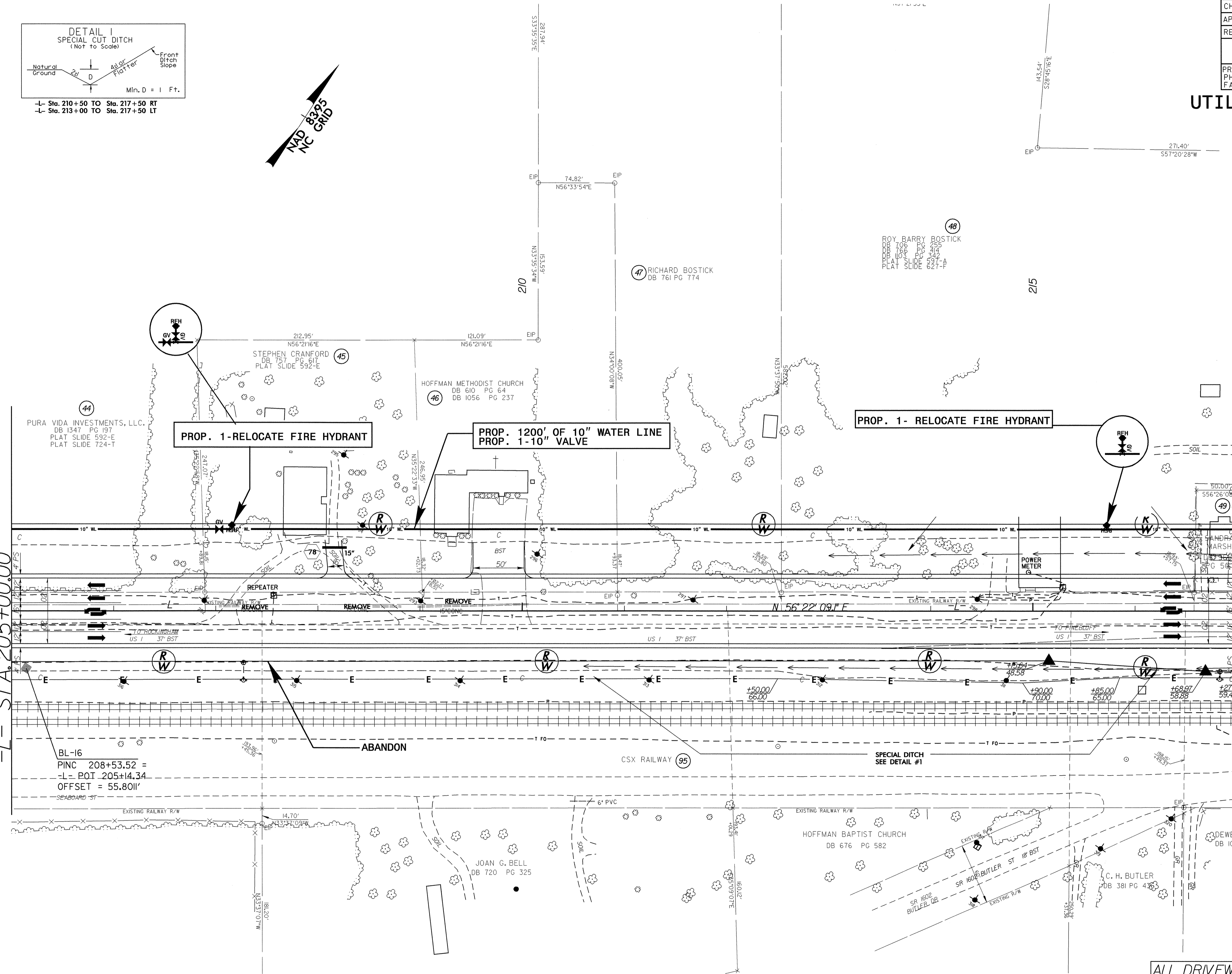
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 33 FOR -L- PROFILE

PROJECT REFERENCE NO. <b>R-2502A</b>	SHEET NO. <b>UC-18</b>
DESIGNED BY: <b>ARK</b>	
DRAWN BY: <b>ARK</b>	
CHECKED BY: <b>CAB</b>	
APPROVED BY: <b>CAB</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



MATCH LINE SEE SHEET UC 17  
-L- STA. 205+00.00

MATCH LINE SEE SHEET UC 19  
-L- STA. 217+00.00



REVISIONS

02-JUN-2008 16:56  
R:\PROJECTS\2502A\RDY\_psh19.dgn

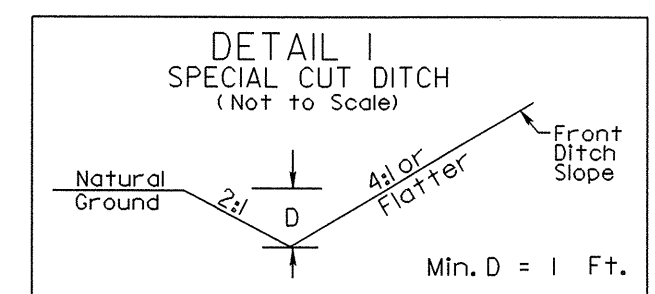
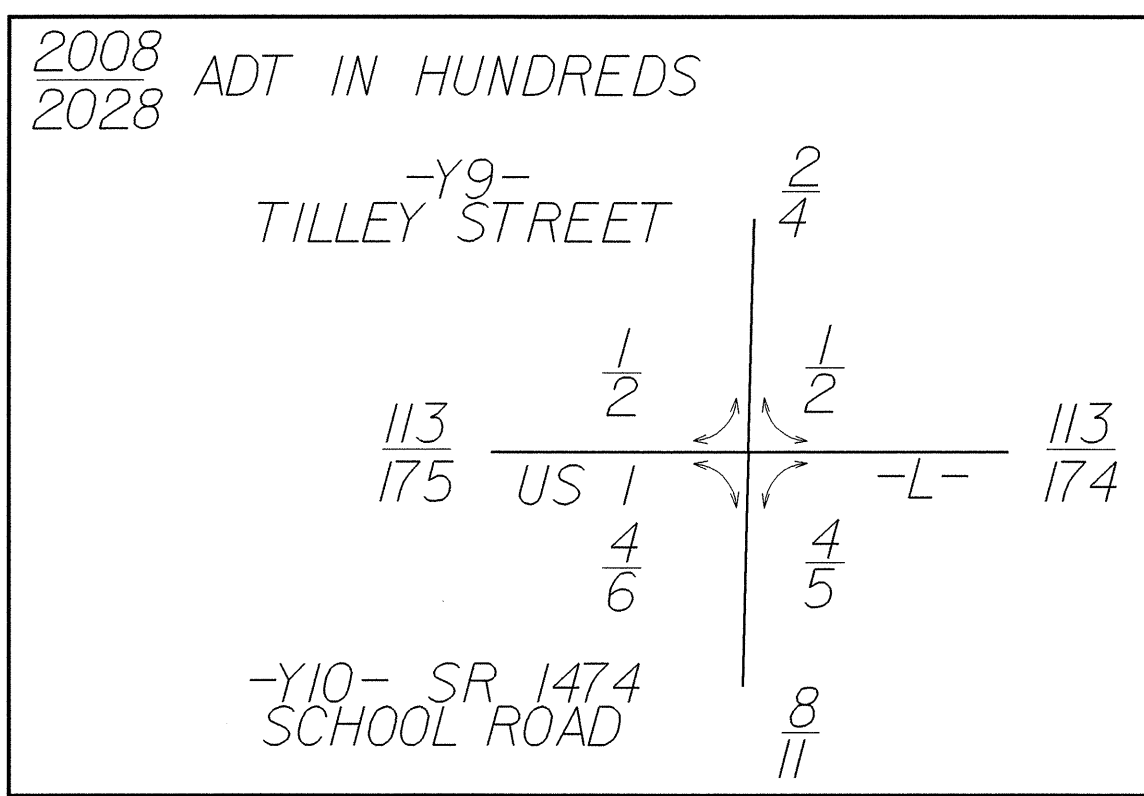
SEE SHEET 2-F FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 34 FOR -L- PROFILE

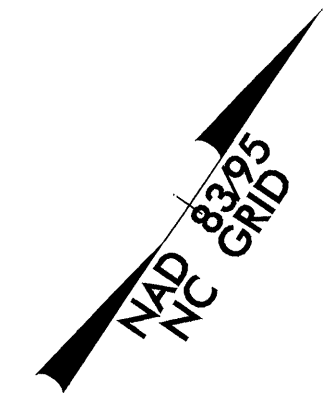
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-19
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISOR:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**



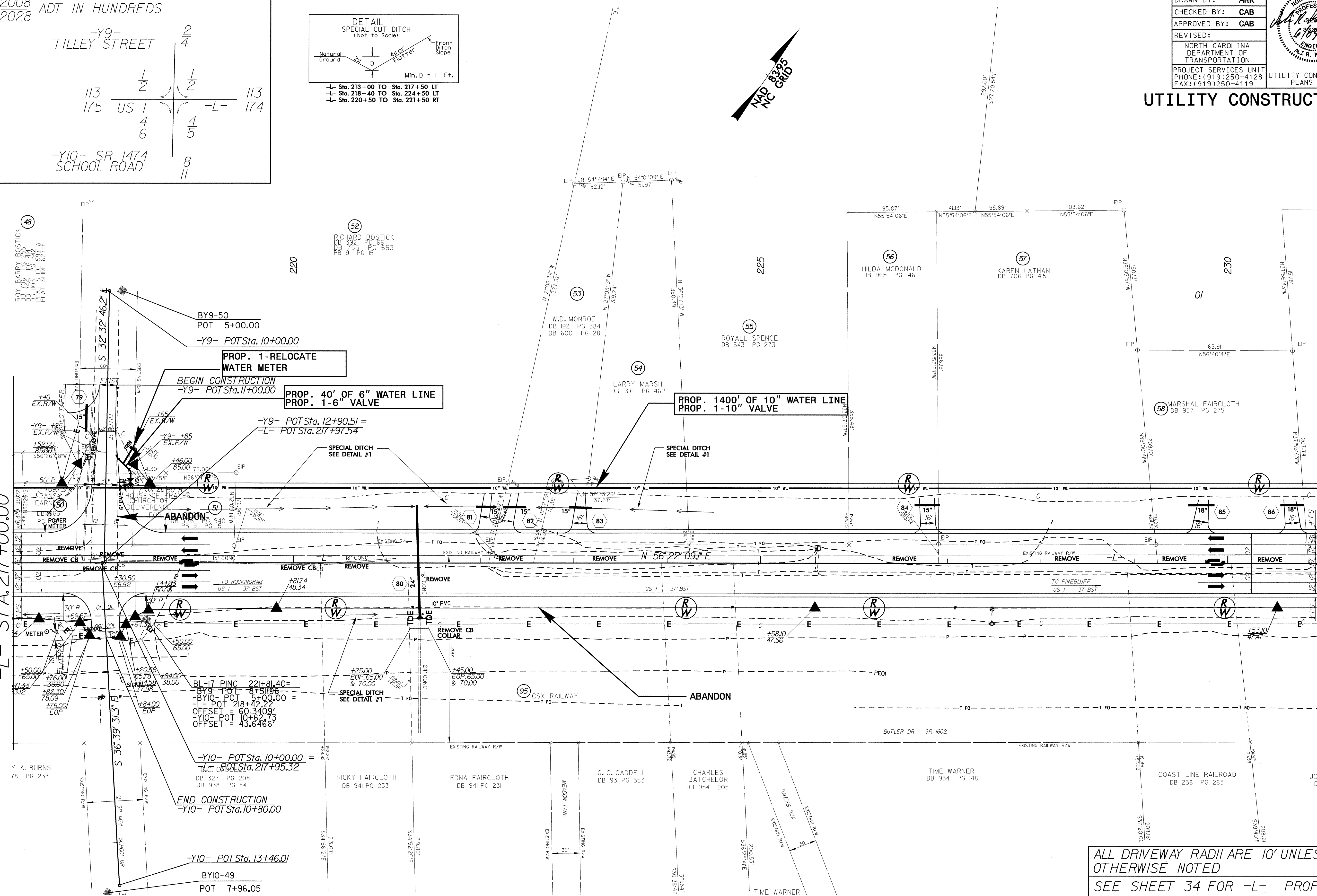
- L- Sta. 213+00 TO Sta. 217+50 LT
- L- Sta. 218+40 TO Sta. 224+50 LT
- L- Sta. 220+50 TO Sta. 221+50 RT



REVISIONS  
 R/W REVISION - ADDED PARCEL NUMBER, RIGHT OF WAY, TEMP. CONST. EASEMENT & TEMP. DRAINAGE EASEMENT ALONG CSX RAILWAY  
 R/W REVISION - REVISED PROPOSED R/W ALONG CSX RAILWAY  
 R/W REVISION - UPDATED EXISTING PROPERTY LINES FOR PARCEL NO. 53 & 54.

MATCH LINE -L- STA. 217+00.00  
 UC-18

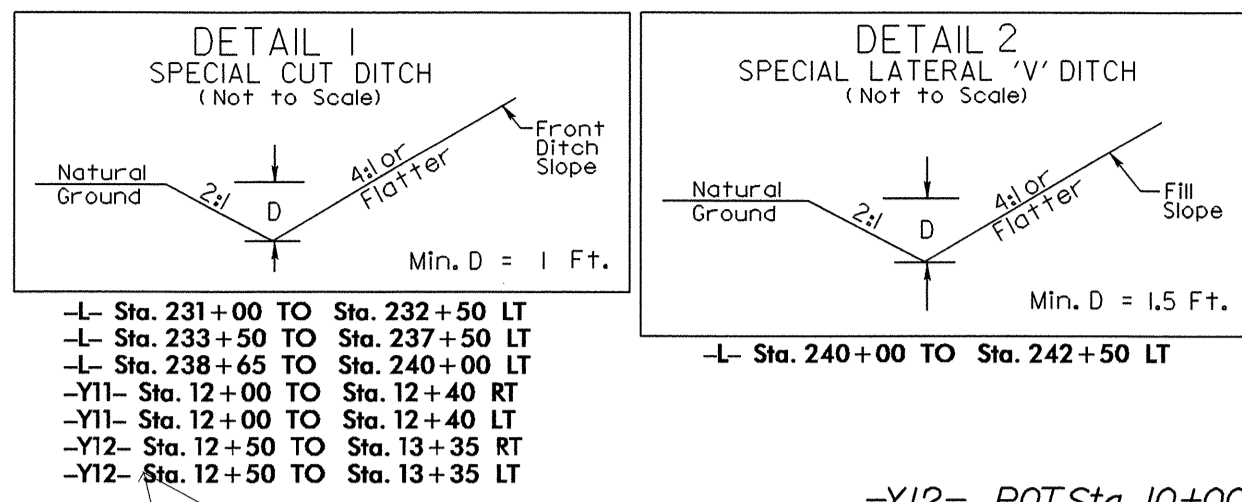
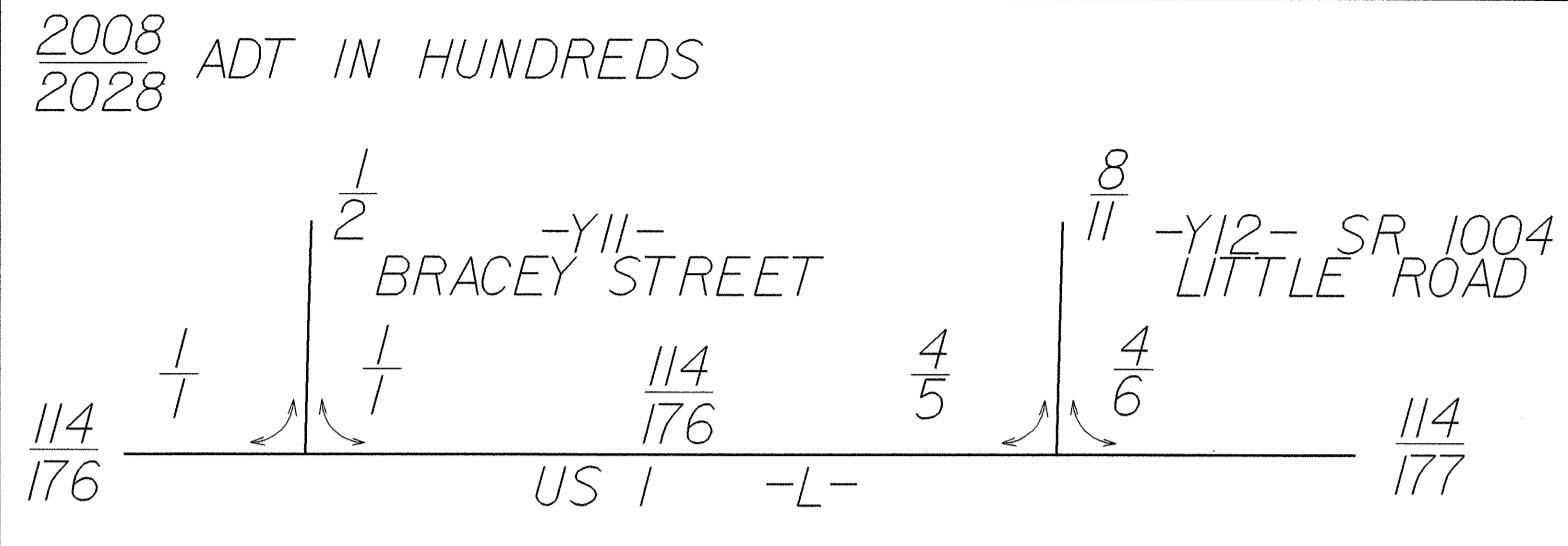
MATCH LINE -L- STA. 231+00.00  
 UC-20



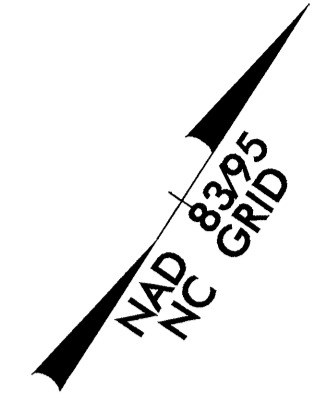
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 34 FOR -L- PROFILE  
 SEE SHEET 39 FOR -Y9- PROFILE  
 SEE SHEET 39 FOR -Y10- PROFILE

SEE SHEET 2-G FOR R/W ALIGNMENT DATA

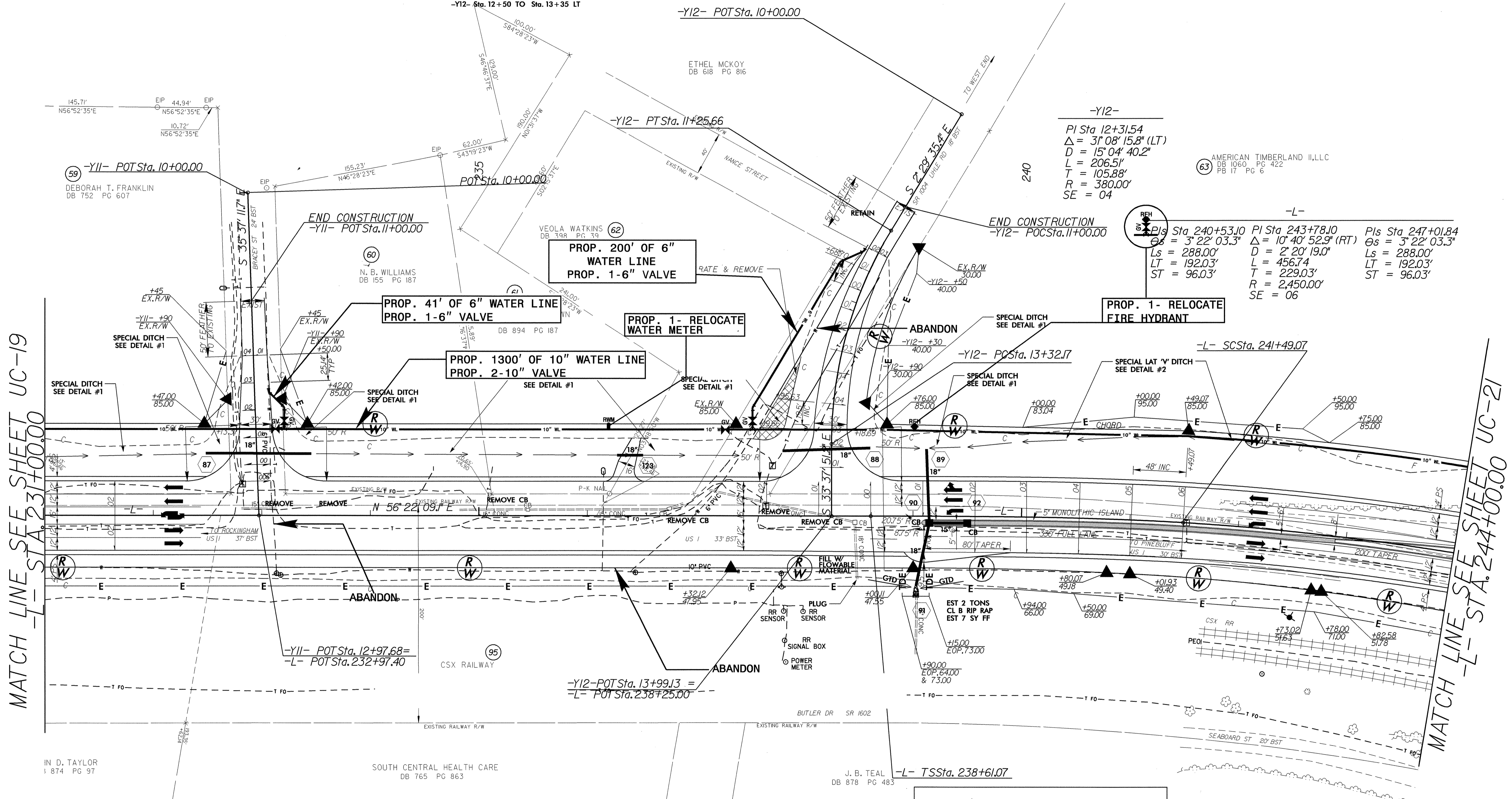
5/14/09



PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-20
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

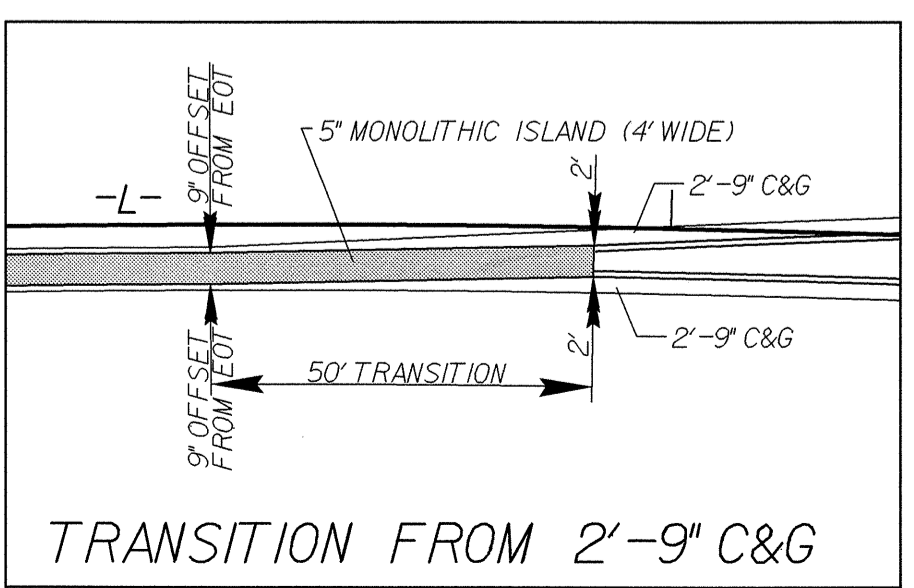


**UTILITY CONSTRUCTION**



MATCH LINE -L- STA. 231+00.00 SEE SHEET UC-19

MATCH LINE -L- STA. 244+00.00 SEE SHEET UC-21



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 35 FOR -L- PROFILE  
SEE SHEET 40 FOR -Y11- PROFILE  
SEE SHEET 40 FOR -Y12- PROFILE  
SEE SHEET 2-H FOR R/W ALIGNMENT DATA

REVISIONS

03-JUN-2008 08:53  
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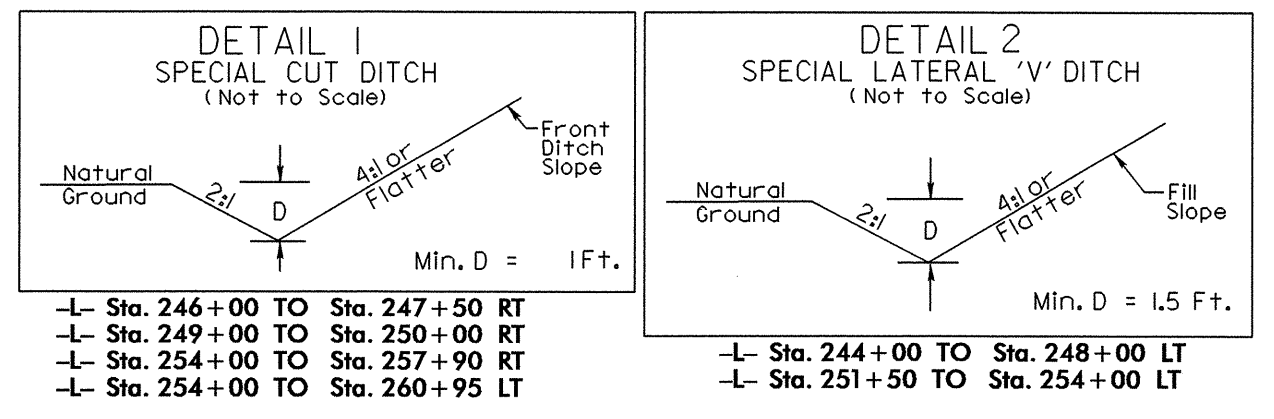
IN D. TAYLOR  
1 874 PG 97

SOUTH CENTRAL HEALTH CARE  
DB 765 PG 863

J. B. TEAL  
DB 878 PG 483

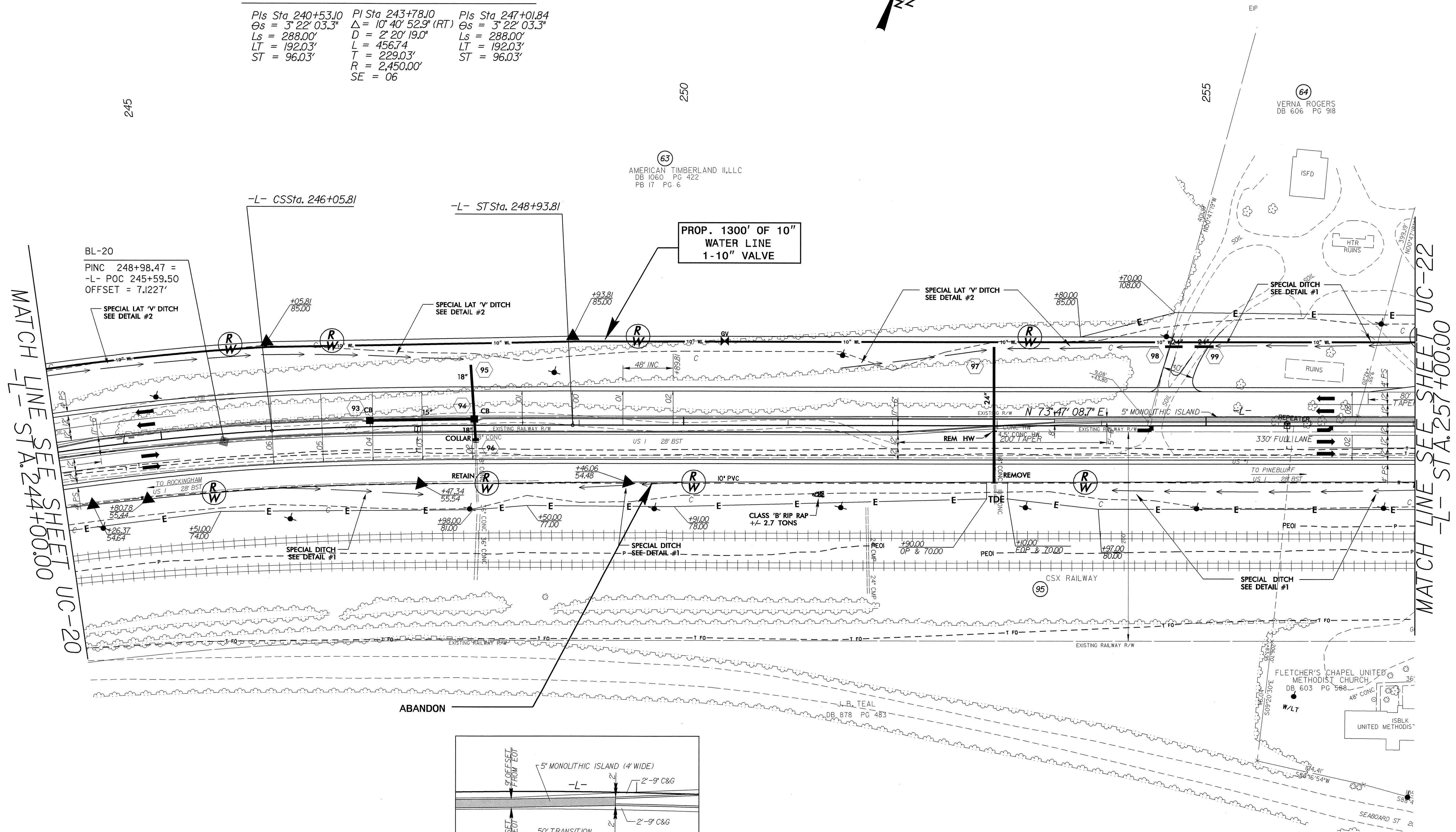
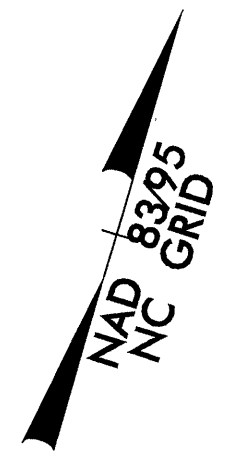
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-21
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**



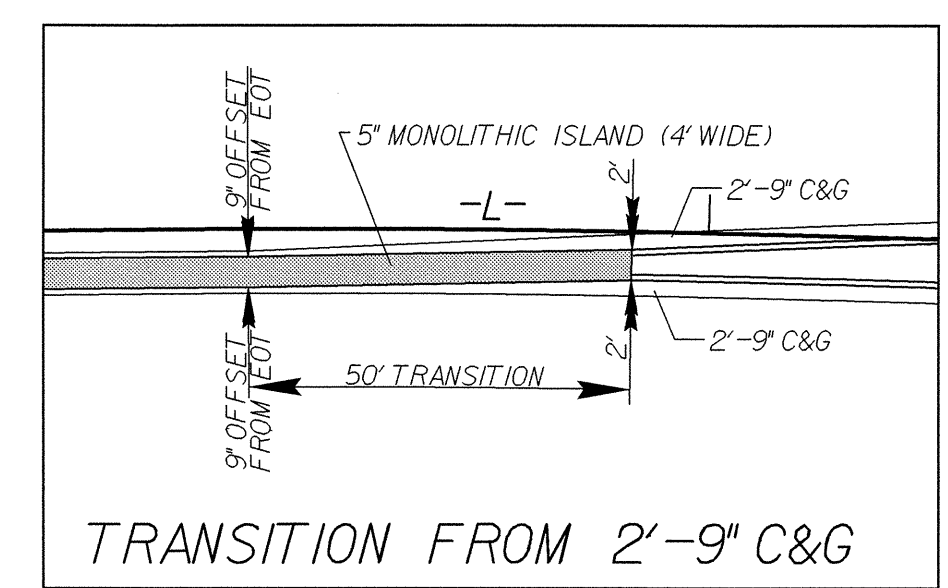
-L-

PIs Sta 240+53.10 θs = 3° 22' 03.3" Ls = 288.00' LT = 192.03' ST = 96.03'	PI Sta 243+78.10 Δ = 10° 40' 52.9" (RT) D = 2° 20' 19.0" L = 456.74 T = 229.03' R = 2,450.00' SE = 06	PIs Sta 247+01.84 θs = 3° 22' 03.3" Ls = 288.00' LT = 192.03' ST = 96.03'
---	---	---



MATCH LINE SEE SHEET UC-20  
 STA. 244+00.00

MATCH LINE SEE SHEET UC-22  
 STA. 257+00.00



SEE SHEET 2-1 FOR R/W ALIGNMENT DATA

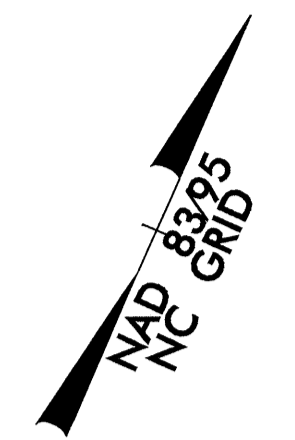
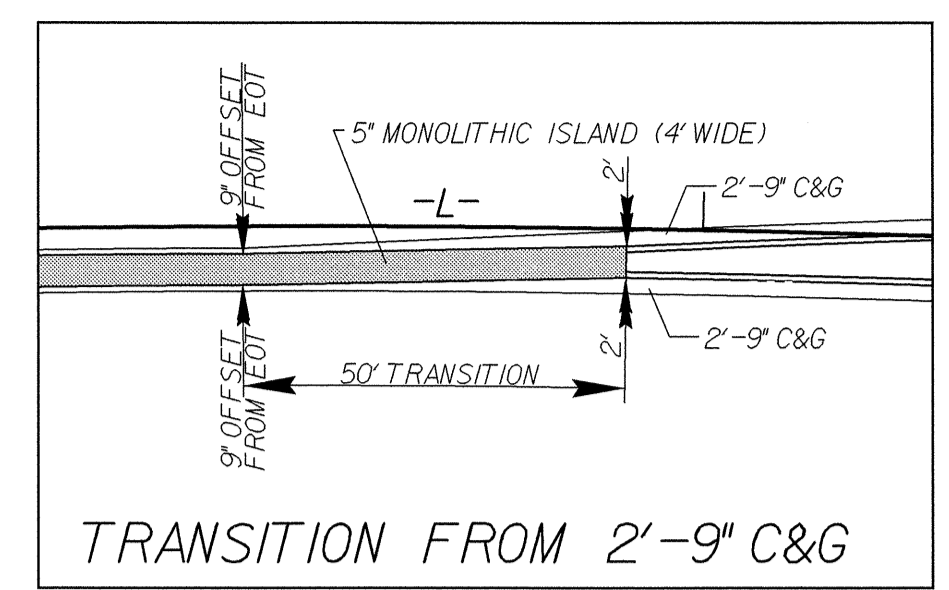
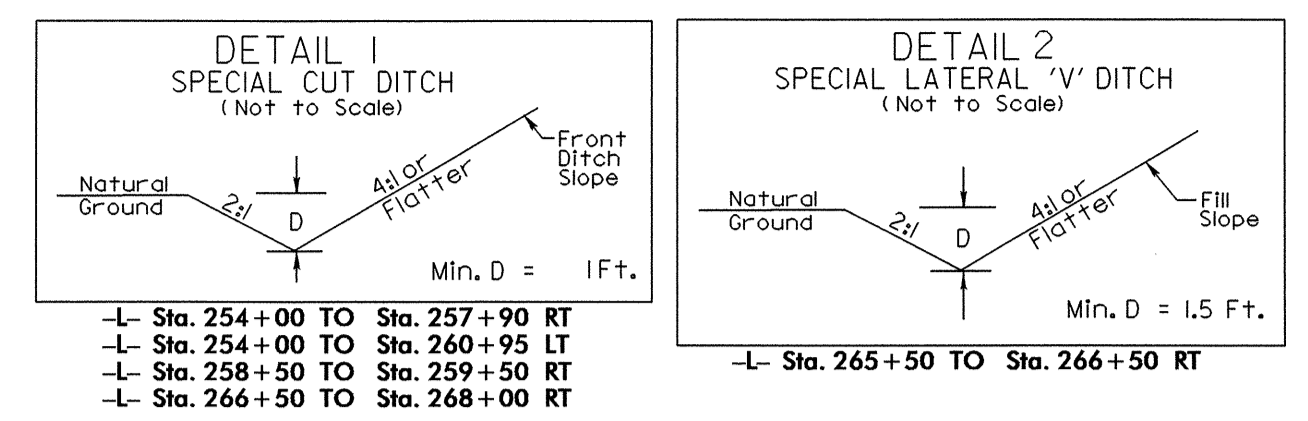
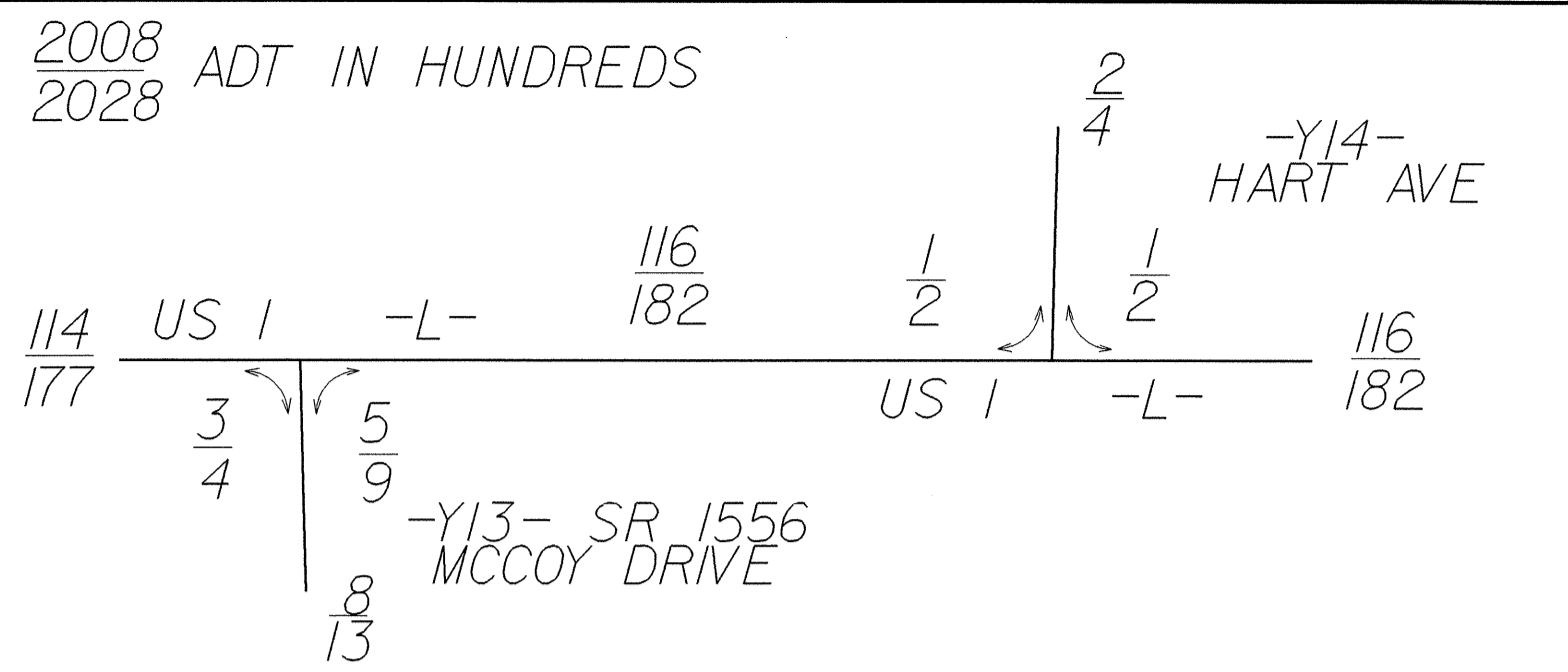
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 35 FOR -L- PROFILE

REVISIONS

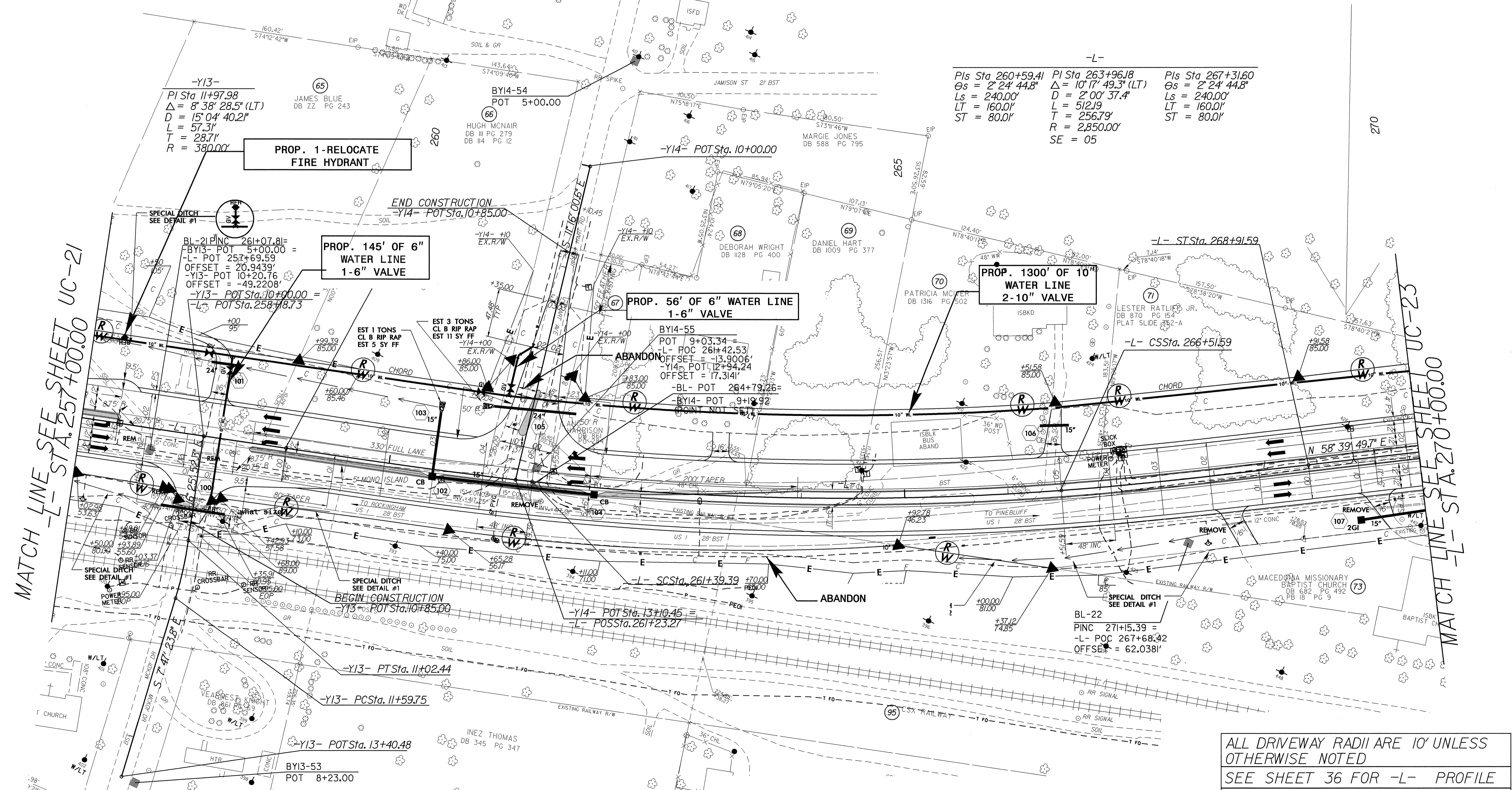
Q3-JUN-2008 14:27  
r:\projects\2502a\rdy\_psh22.dgn

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-22
DESIGNED BY: ARK	
DRAWN BY: ARK	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



Pls Sta 260+59.41 PI Sta 263+96.18 Pls Sta 267+31.60  
 $\Theta_s = 2' 24' 44.8''$   $\Delta = 10' 17' 49.3''$  (LT)  $\Theta_s = 2' 24' 44.8''$   
 $L_s = 240.00'$   $D = 2' 00' 37.4''$   $L_s = 240.00'$   
 $LT = 160.01'$   $L = 512.19'$   $LT = 160.01'$   
 $ST = 80.01'$   $T = 256.79'$   $ST = 80.01'$   
 $R = 2,850.00'$   
 $SE = 05$



MATCH LINE SEE SHEET UC-21  
 -L- STA. 257+00.00

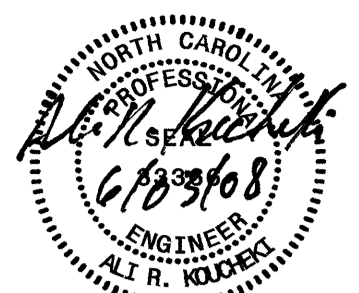
MATCH LINE SEE SHEET UC-23  
 -L- STA. 270+00.00

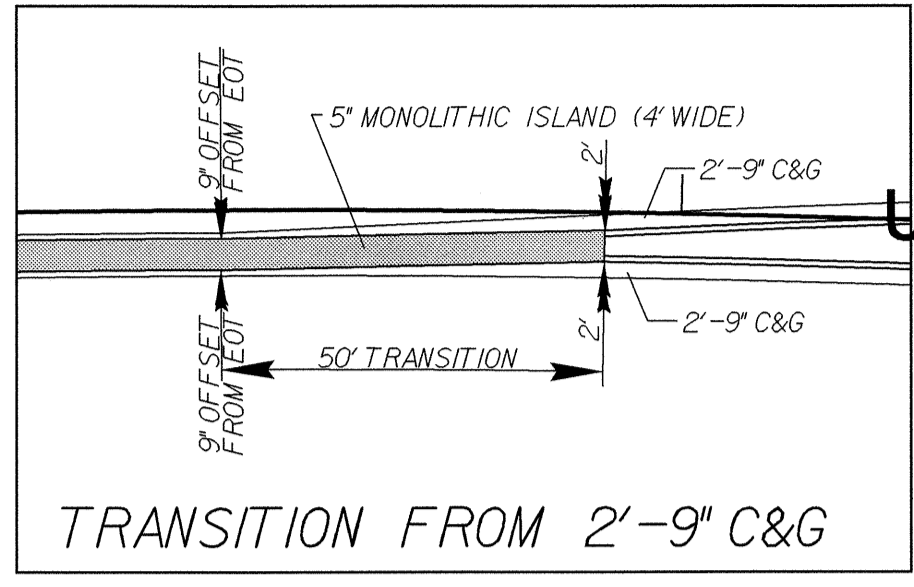
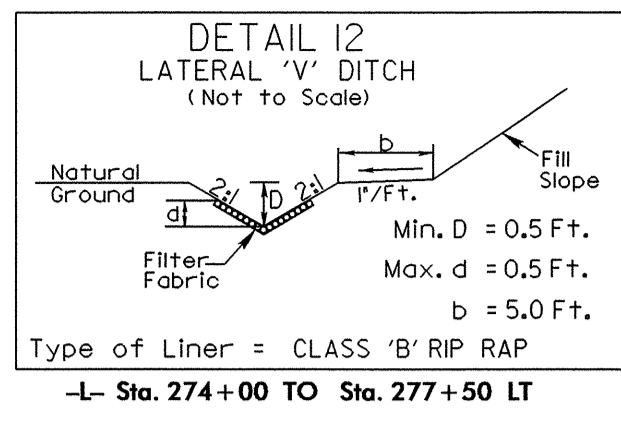
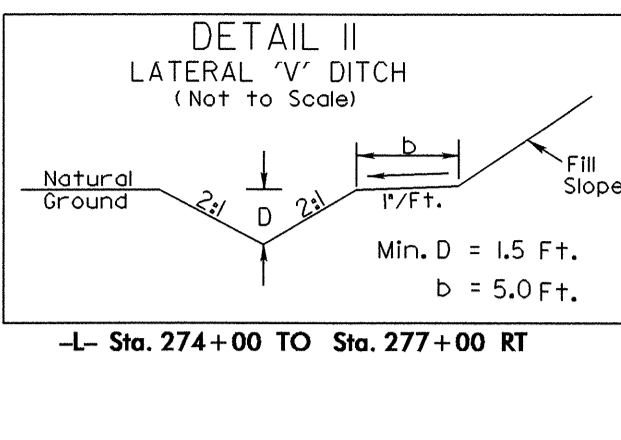
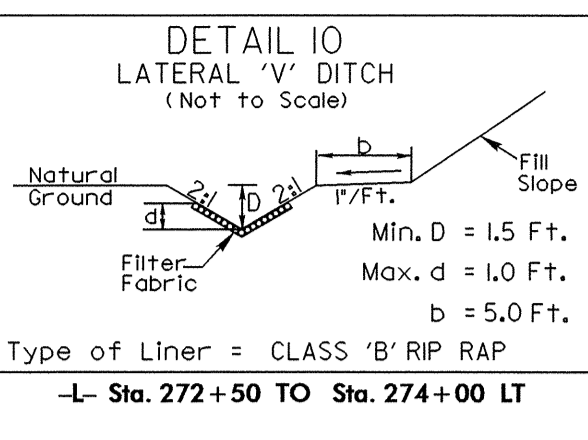
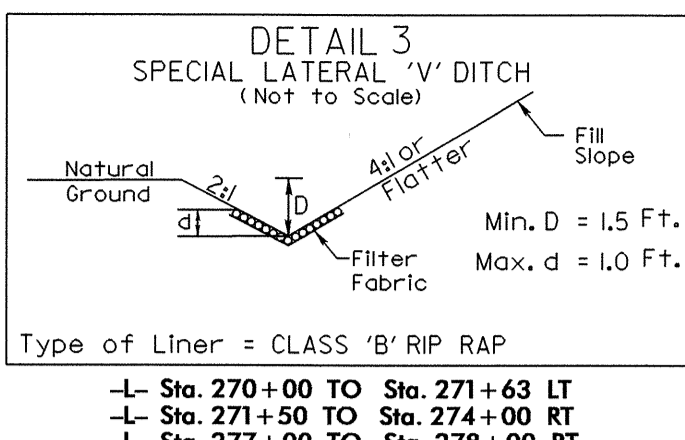
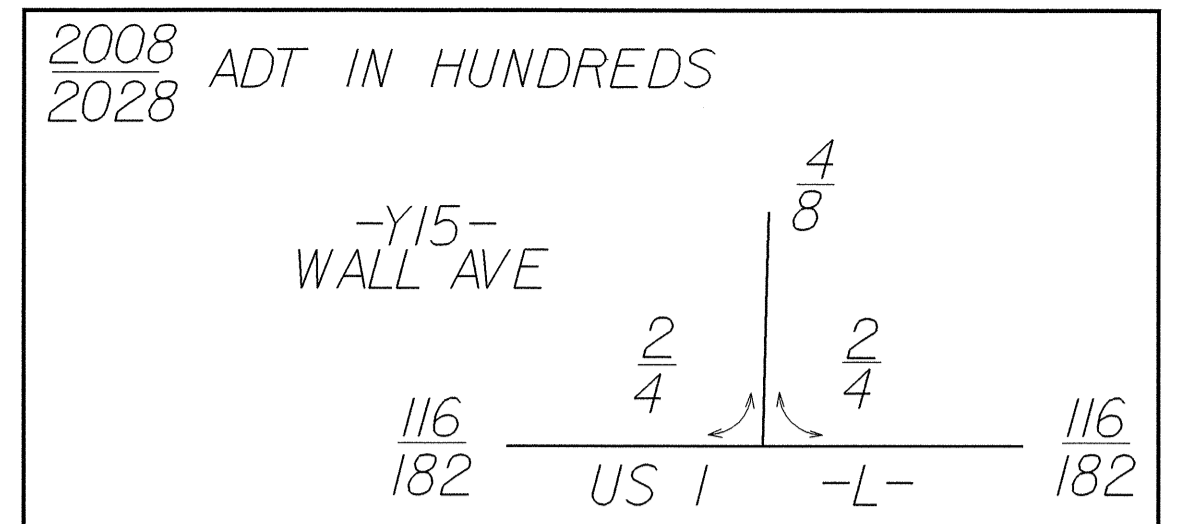
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 36 FOR -L- PROFILE  
 SEE SHEET 40 FOR -Y13- PROFILE  
 SEE SHEET 40 FOR -Y14- PROFILE

SEE SHEET 2-J FOR R/W ALIGNMENT DATA

REVISIONS

02-JUN-2008 17:03  
 r:\projects\2502a\RDY-psh23.dgn

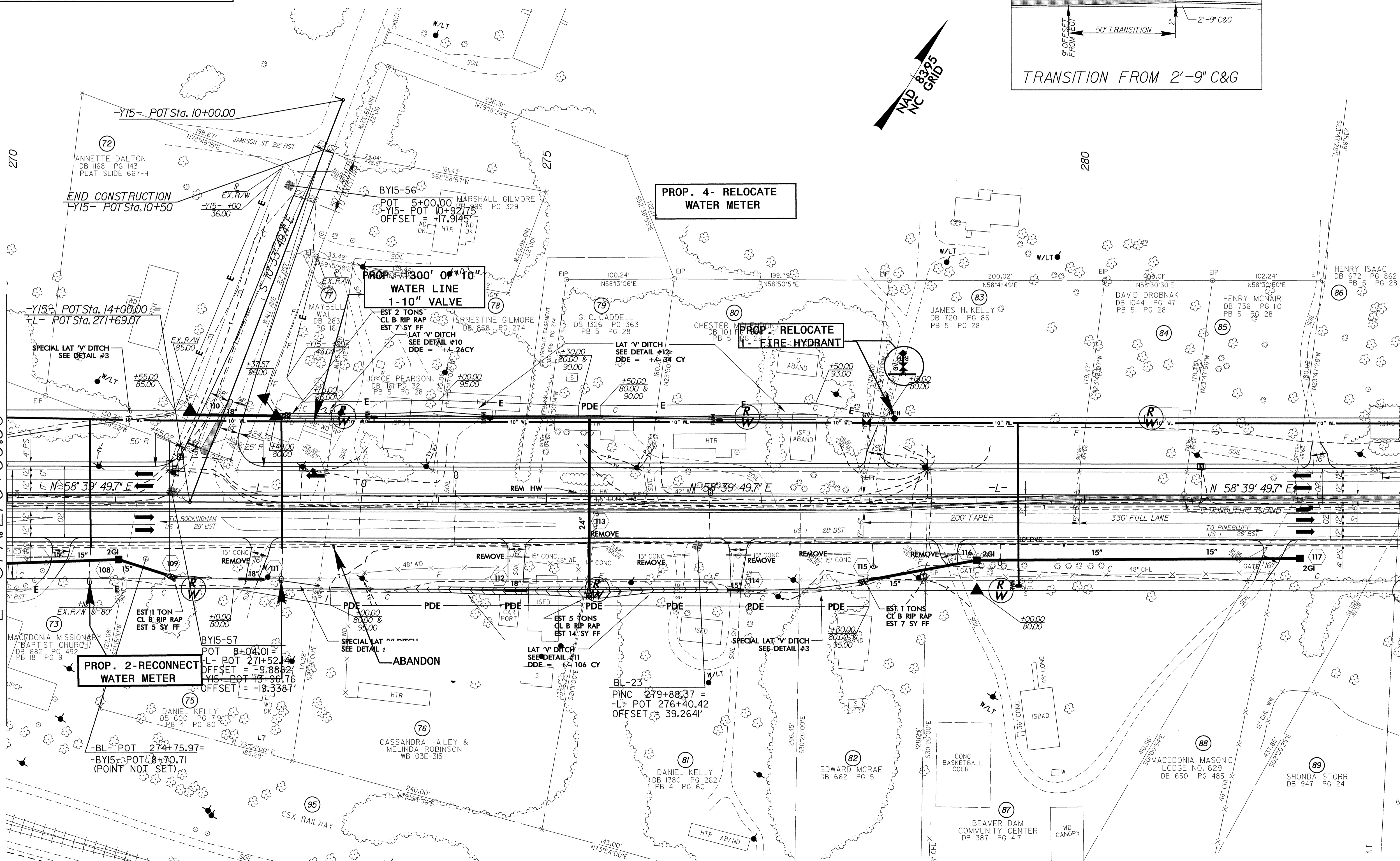
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	UC-23
DESIGNED BY: <b>ARK</b>	
DRAWN BY: <b>ARK</b>	
CHECKED BY: <b>CAB</b>	
APPROVED BY: <b>CAB</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	



UTILITY CONSTRUCTION

MATCH LINE SEE SHEET UC-22  
-L- STA. 270+00.00

MATCH LINE SEE SHEET UC-24  
-L- STA. 283+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 36 FOR -L- PROFILE  
SEE SHEET 40 FOR -Y15- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
<b>R-2502A</b>	<b>UC-24</b>
DESIGNED BY: <b>ARK</b>	
DRAWN BY: <b>ARK</b>	
CHECKED BY: <b>CAB</b>	
APPROVED BY: <b>CAB</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

2008 ADT IN HUNDREDS  
 2028

-Y16-  
VINCENT GIBSON AVE

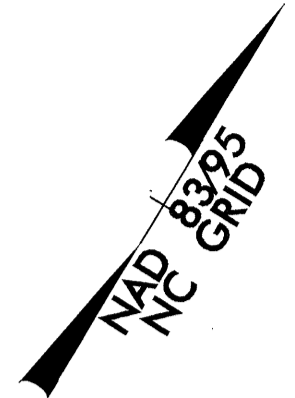
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$\frac{1}{2}$

$\frac{1}{2}$

$\frac{116}{182}$

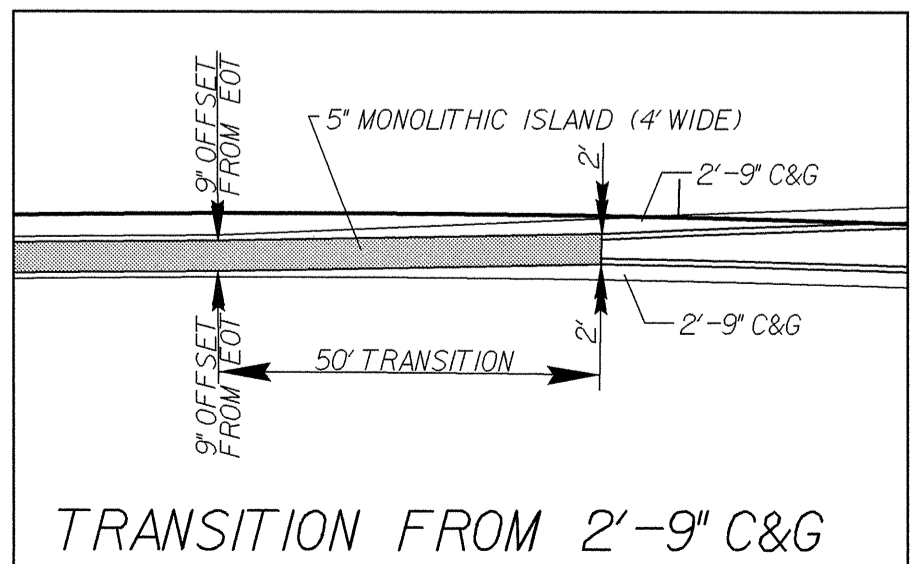
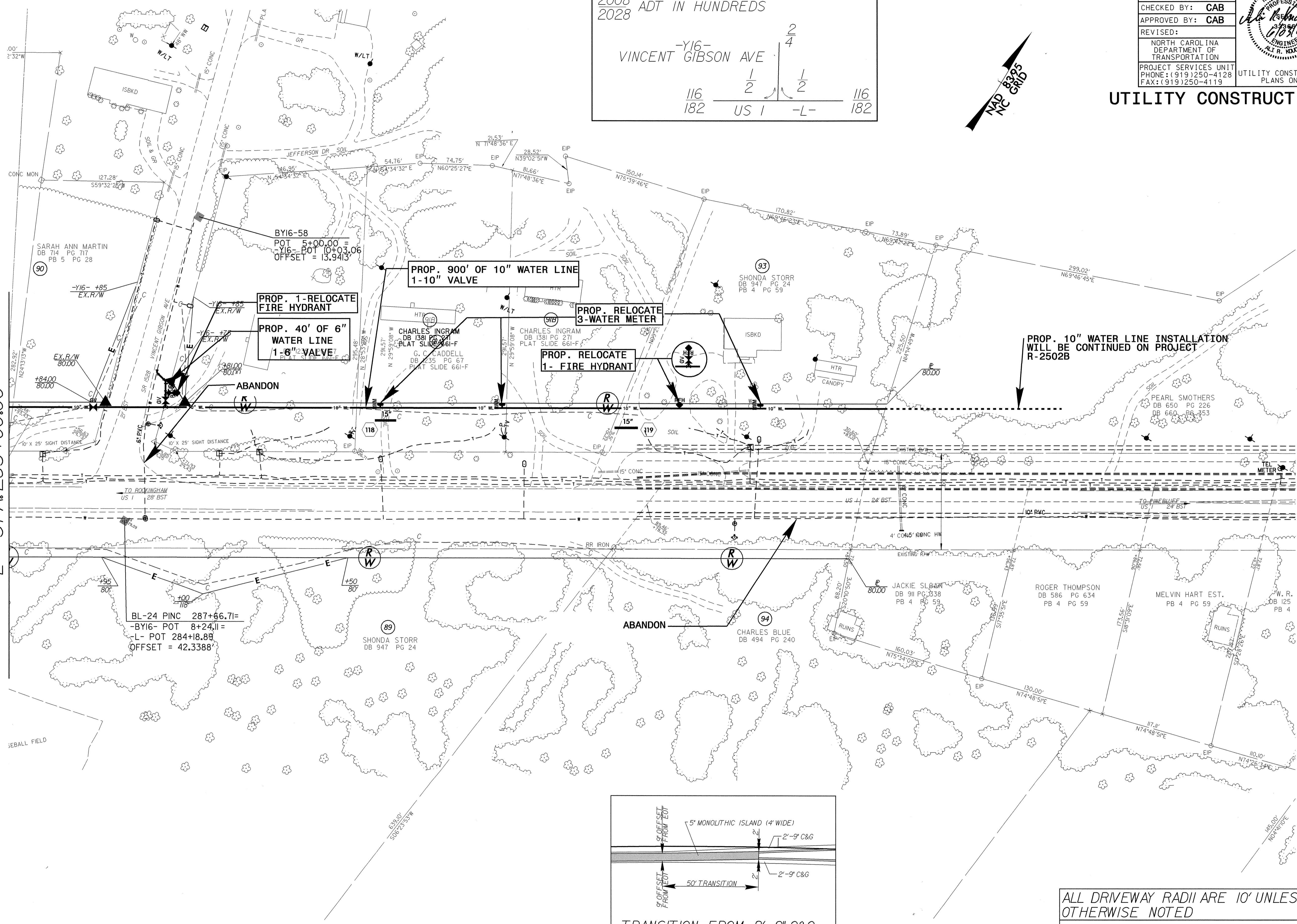
US 1 -L-



**UTILITY CONSTRUCTION**

MATCH LINE SEE SHEET UC-23  
-L- STA. 283+00.00

REVISIONS



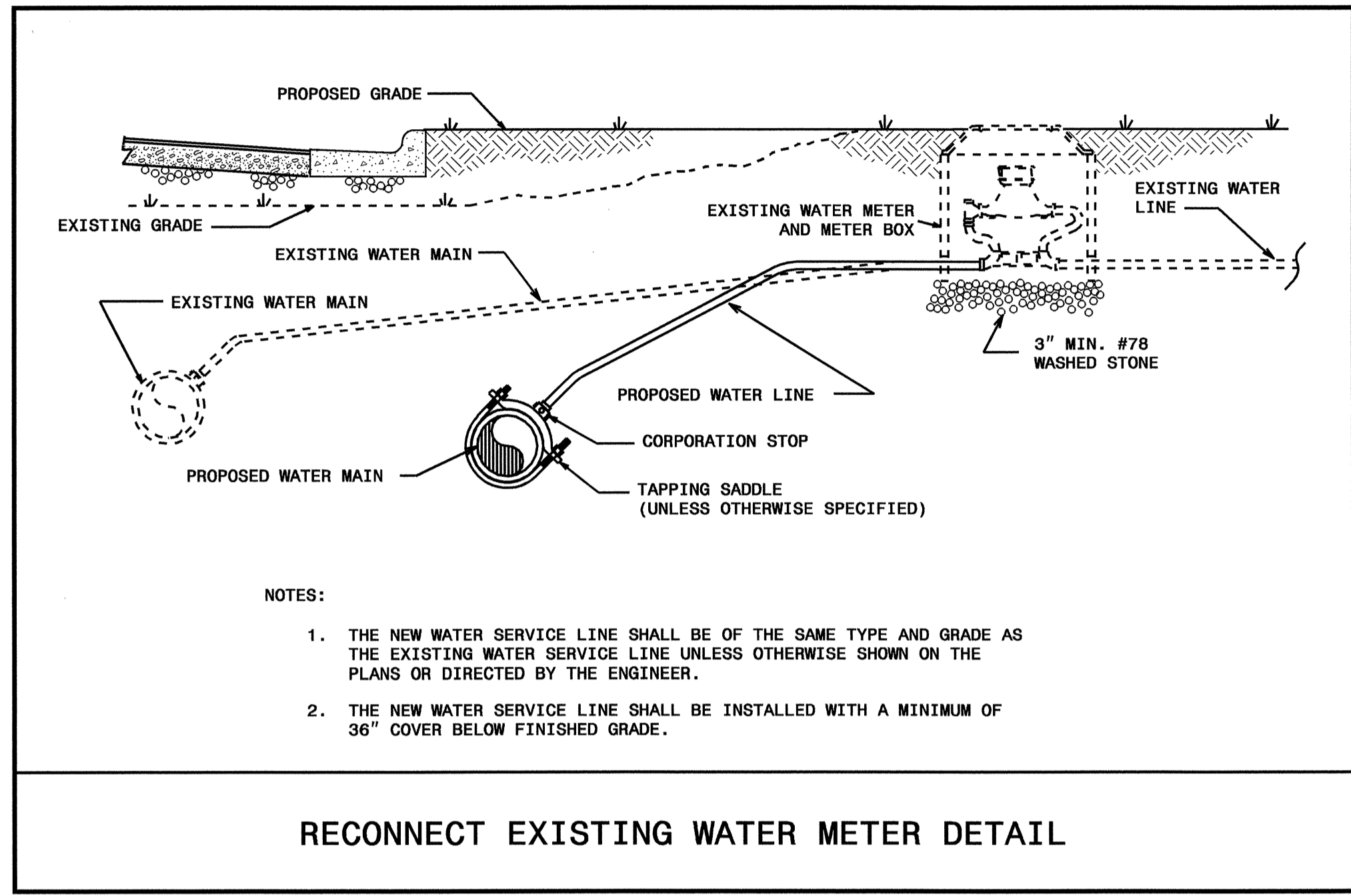
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 37 FOR -L- PROFILE  
 SEE SHEET 40 FOR -Y16- PROFILE

5/14/09  
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 2502a.dgn  
 2502a.dgn  
 2502a.dgn



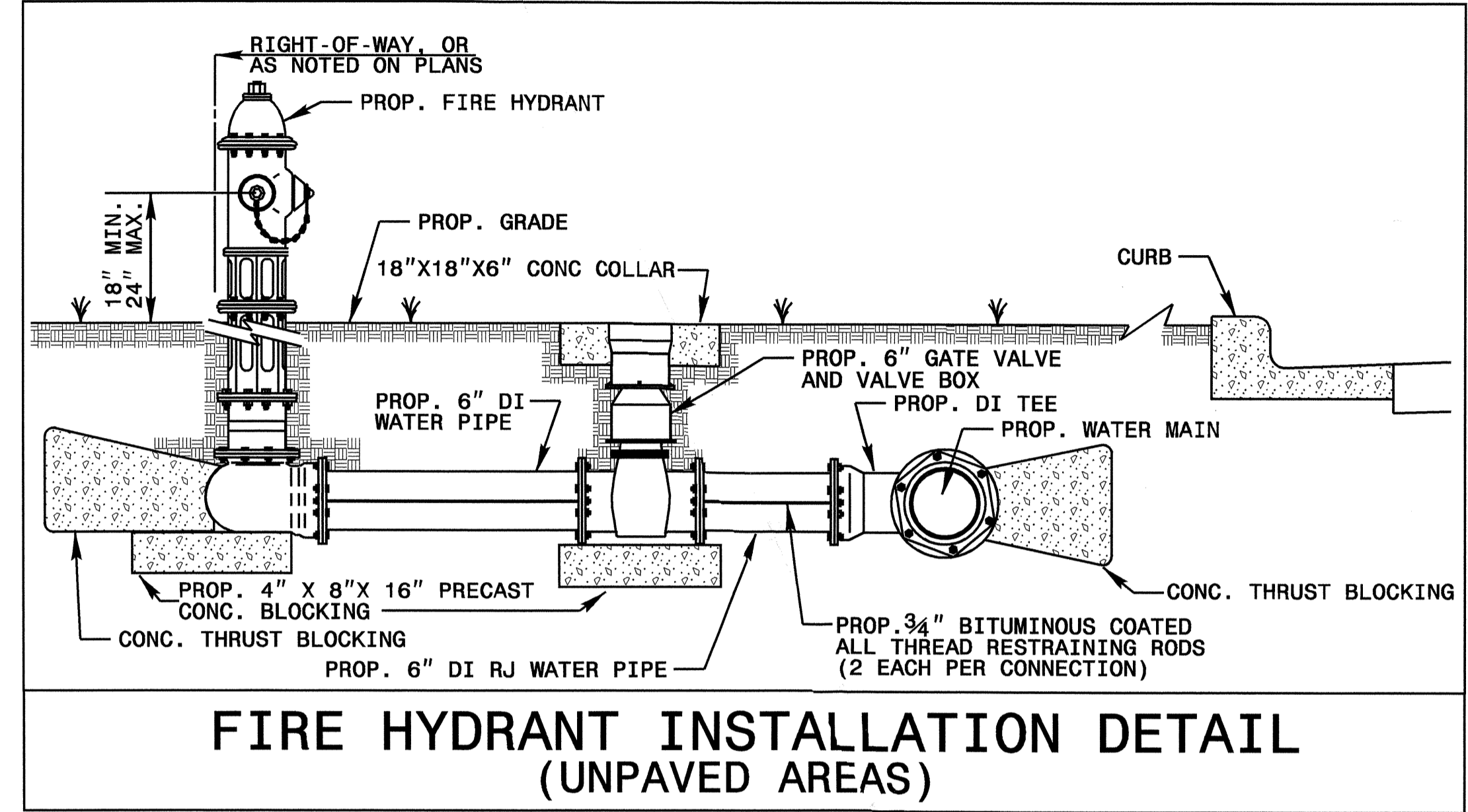
5/14/99

**UTILITY CONSTRUCTION**

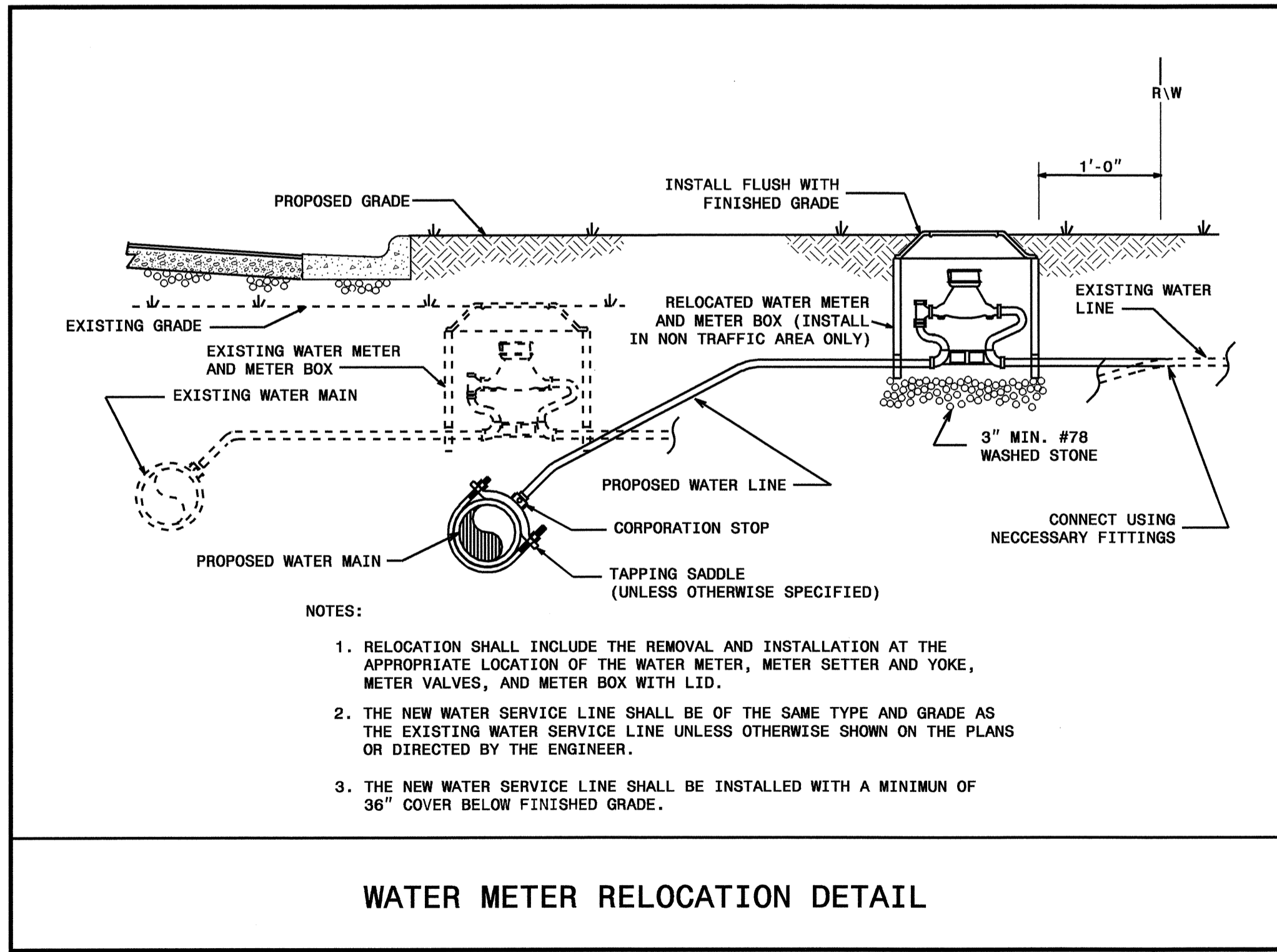


- NOTES:
1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
  2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

**RECONNECT EXISTING WATER METER DETAIL**



**FIRE HYDRANT INSTALLATION DETAIL (UNPAVED AREAS)**



- NOTES:
1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
  2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
  3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

**WATER METER RELOCATION DETAIL**

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		

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 331105-111111

TIP PROJECT: R-2502A

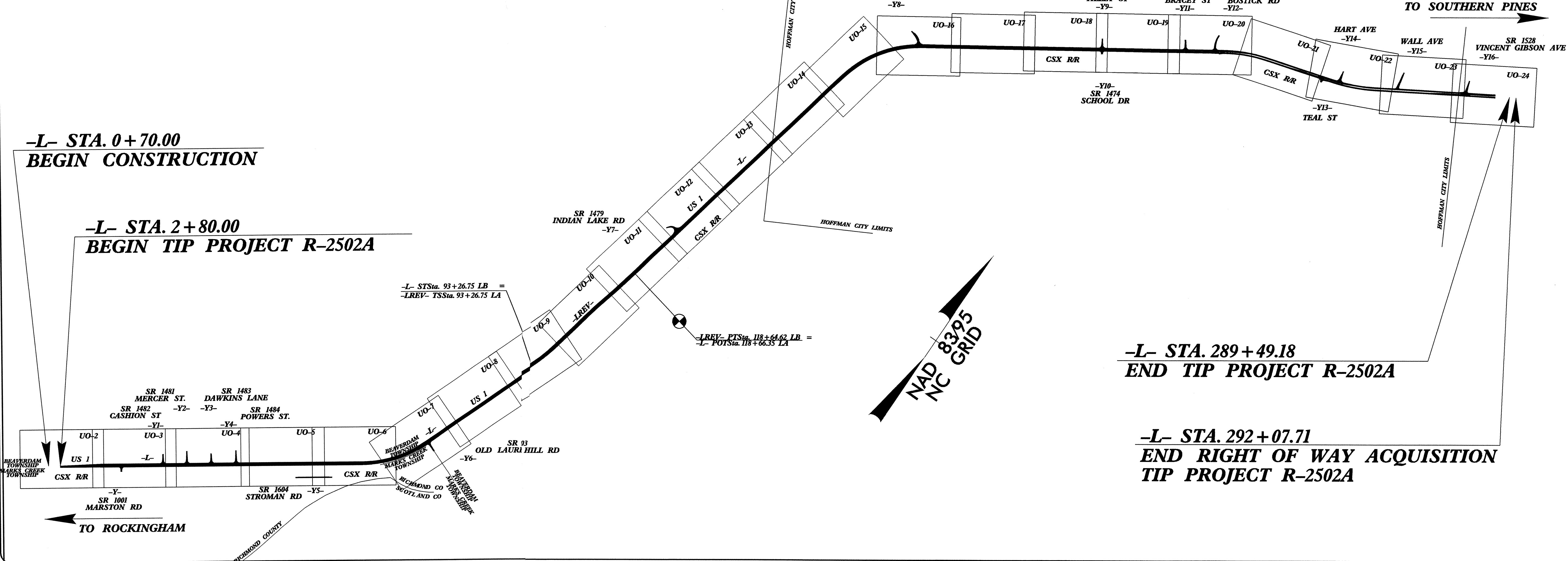
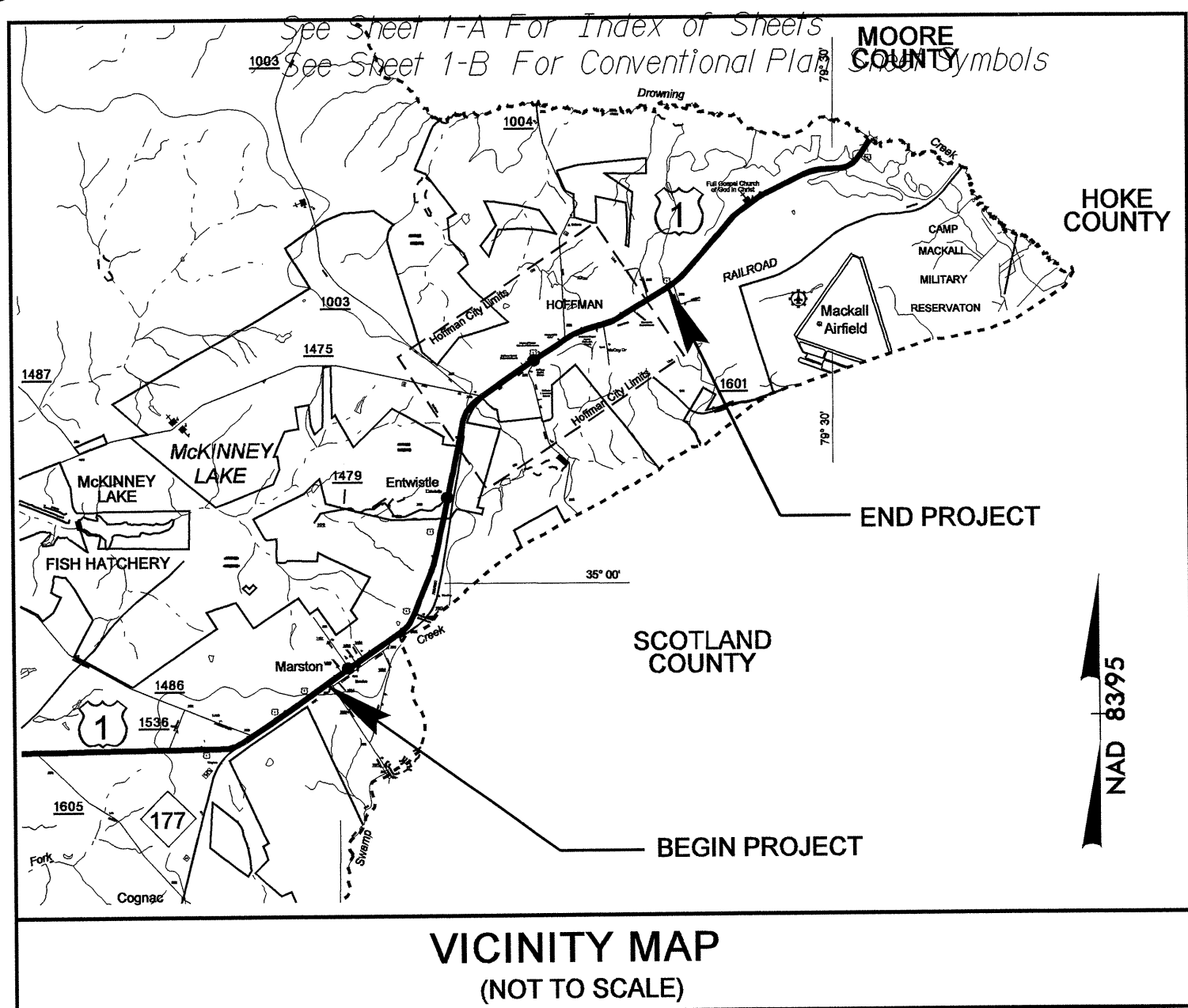
T.I.P. NO.	SHEET NO.
R-2502A	UO-1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS  
RICHMOND COUNTY**

**LOCATION: US 1 FROM SOUTH OF SR 1001 (MARSTON RD)  
TO NORTH OF SR 1528 (VINCENT GIBSON AVE)**

**TYPE OF WORK: UTILITIES RELOCATION**

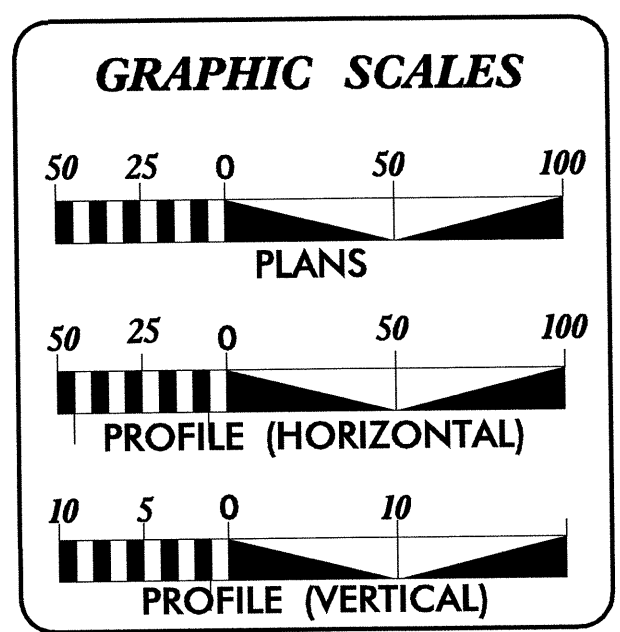


**-L- STA. 0+70.00  
BEGIN CONSTRUCTION**

**-L- STA. 2+80.00  
BEGIN TIP PROJECT R-2502A**

**-L- STA. 289+49.18  
END TIP PROJECT R-2502A**

**-L- STA. 292+07.71  
END RIGHT OF WAY ACQUISITION  
TIP PROJECT R-2502A**

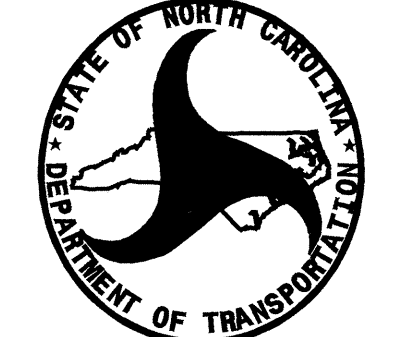


**INDEX OF SHEETS**

SHEET NO.	DESCRIP'DN
UO-1	TITLE SHEET
UO-2 THRU UO-24	UTILITY BY OTHER PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

- (1) PROGRESS ENERGY-POWER
- (2) VERIZON-TELEPHONE
- (3) WIND STREAM COMMUNICATION-TELEPHONE
- (4) TIME WARNER CABLE- CABLE TV
- (5) AT&T



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

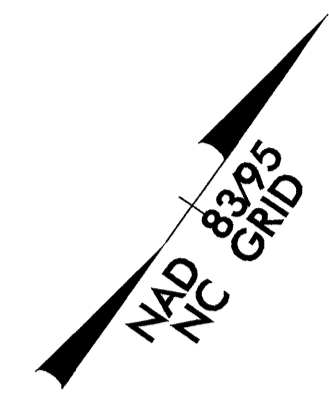
1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 250-4128  
FAX (919) 250-4119

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Carl Barclay, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Ali Kouchehi, P.E.** UTILITIES PROJECT DESIGNER

03-JUN-2008 11:11  
P:\utilities\rdy-ut\proj\2502a\_rdy\_tsh\_uo1.dgn  
\$\$\$\$\$USERNAME\$\$\$\$\$

### UTILITIES BY OTHERS

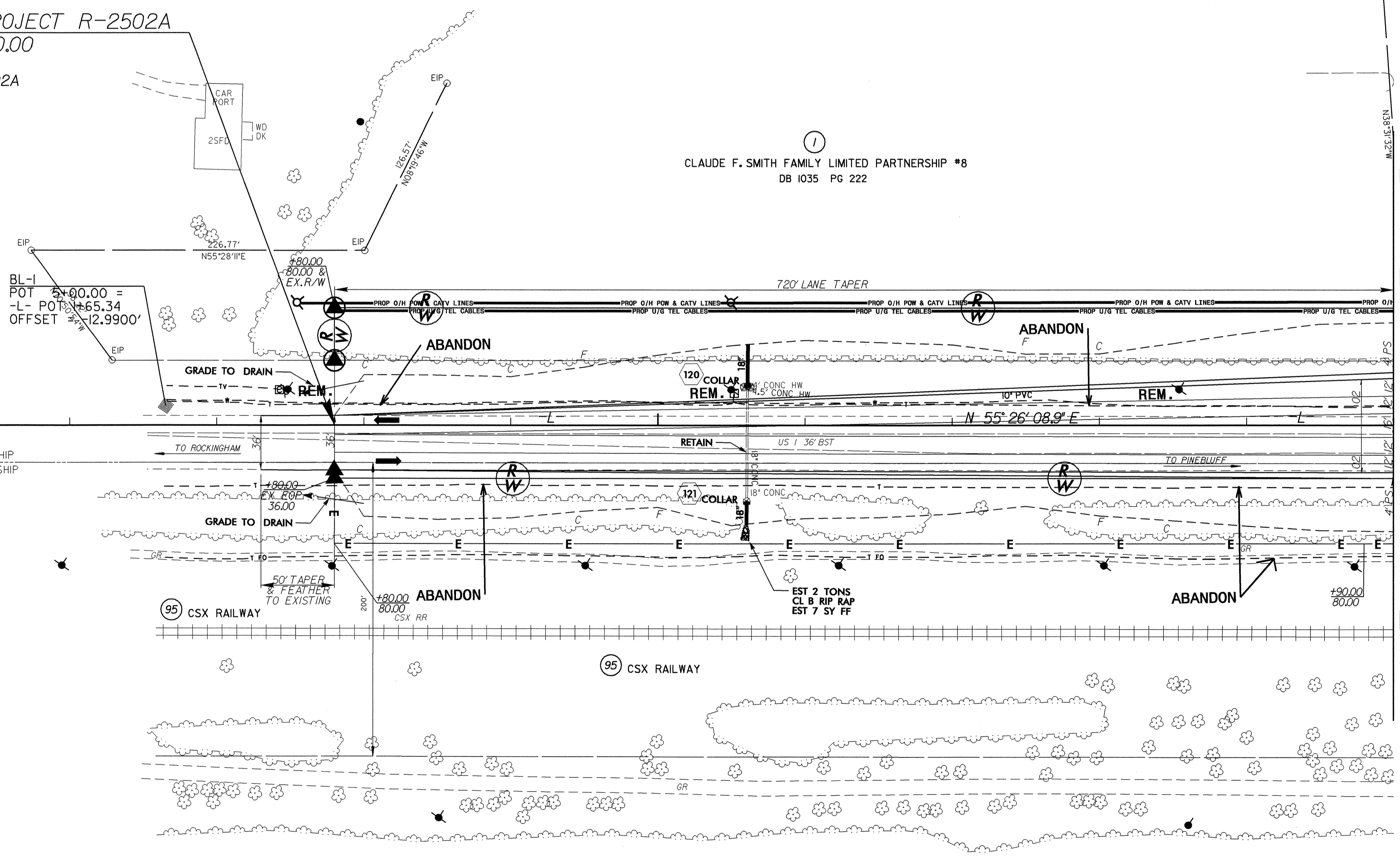
**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



NOTE: UNLESS OTHERWISE STATED,  
PROP O/H POW & CATV LINES ARE  
3.5' OUTSIDE OF THE R/W LINE AND  
PROP U/G TEL CABLES ARE 2' INSIDE  
THE R/W LINE.

5

BEGIN STATE PROJECT R-2502A  
-L- POT Sta. 2+80.00  
BEGIN CONSTRUCTION  
STATE PROJECT R-2502A  
607' SOUTH OF  
-L- Sta. 2+80.00



MATCH LINE SEE SHEET U0-3  
-L- STA. 10+00.00

REVISIONS

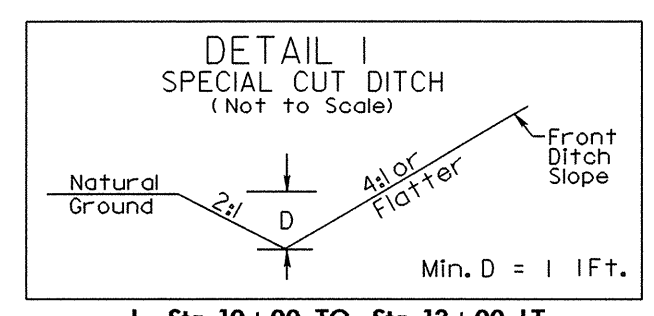
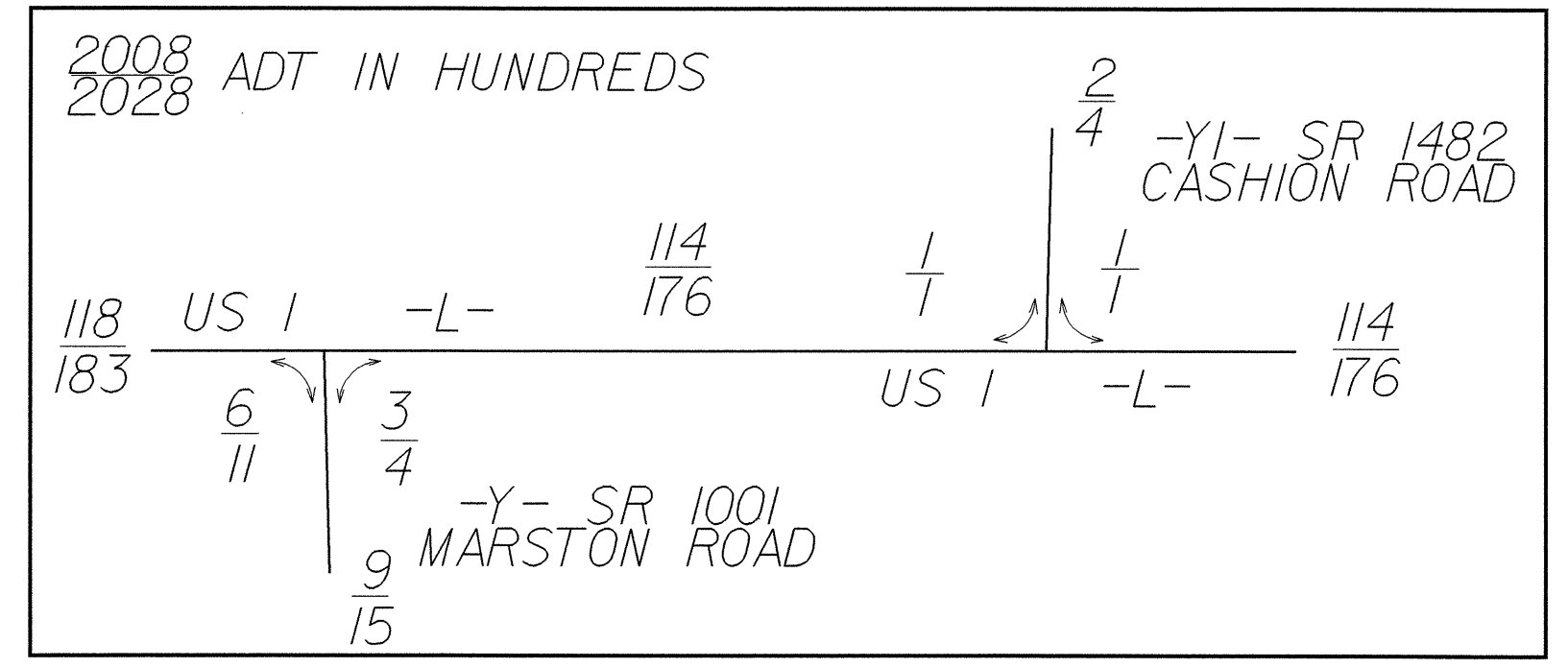
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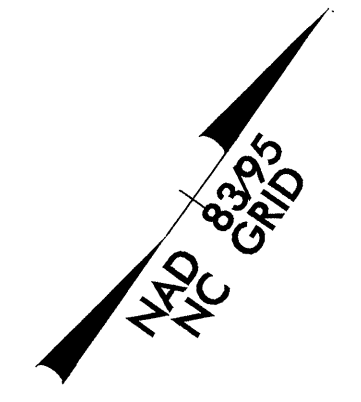
ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 26 FOR -L- PROFILE

UTILITIES BY OTHERS

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

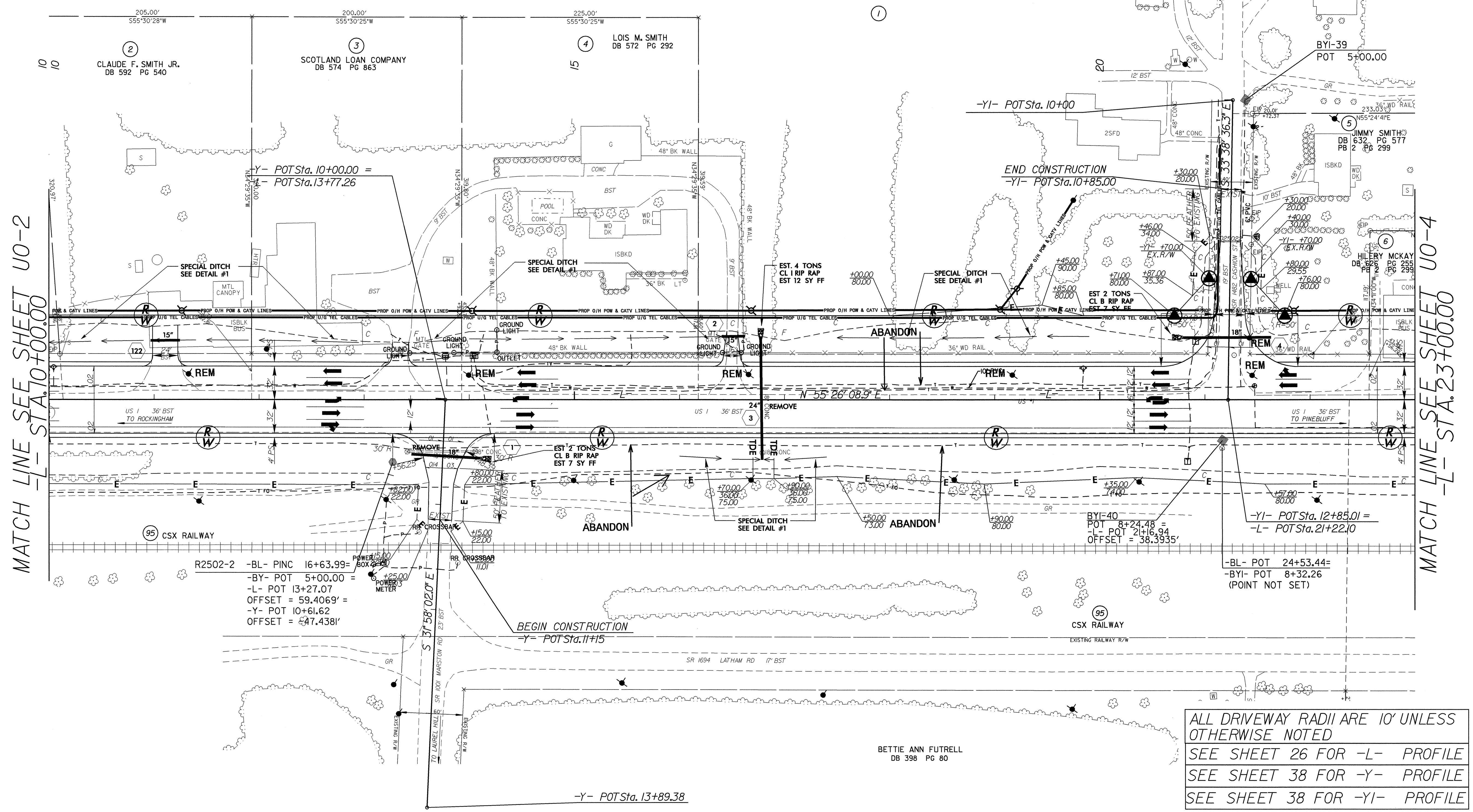


- L- Sta. 10+00 TO Sta. 13+00 LT
- L- Sta. 13+60 TO Sta. 16+75 LT
- L- Sta. 16+00 TO Sta. 17+50 RT
- L- Sta. 17+50 TO Sta. 20+00 LT



①  
CLAUDE F. SMITH FAMILY LIMITED PARTNERSHIP #8  
DB 1035 PG 222

①  
CLAUDE F. SMITH FAMILY LIMITED PARTNERSHIP #8  
DB 1035 PG 222



MATCH LINE SEE SHEET UO-2  
-L- STA. 10+00.00

MATCH LINE SEE SHEET UO-4  
-L- STA. 23+00.00

R2502-2 -BL- PINC 16+63.99=  
-BY- POT 5+00.00 =  
-L- POT 13+27.07  
OFFSET = 59.4069' =  
-Y- POT 10+61.62  
OFFSET = 47.4381'

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 26 FOR -L- PROFILE  
SEE SHEET 38 FOR -Y- PROFILE  
SEE SHEET 38 FOR -YI- PROFILE

BETTIE ANN FUTRELL  
DB 398 PG 80

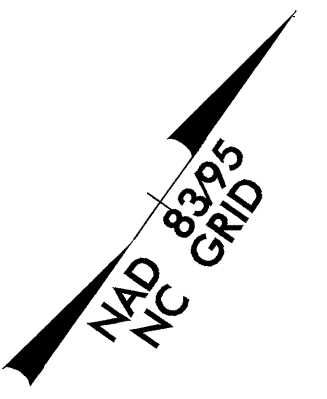
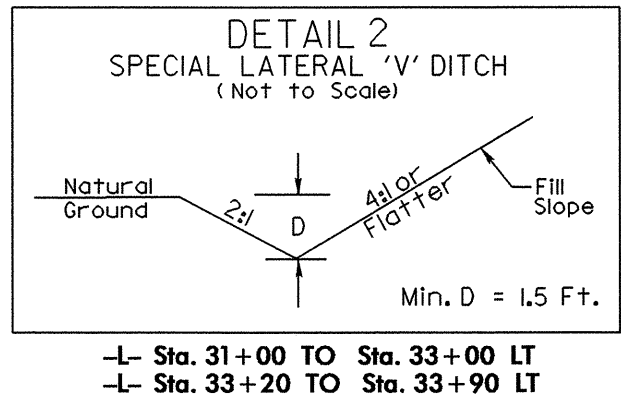
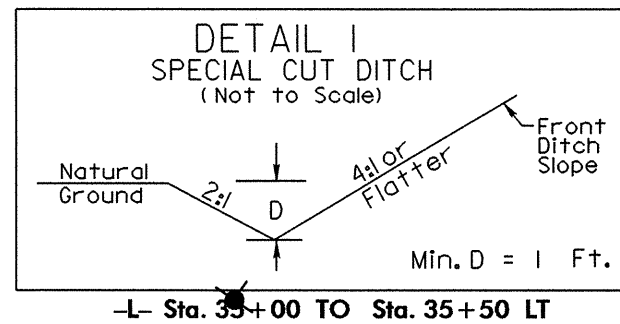
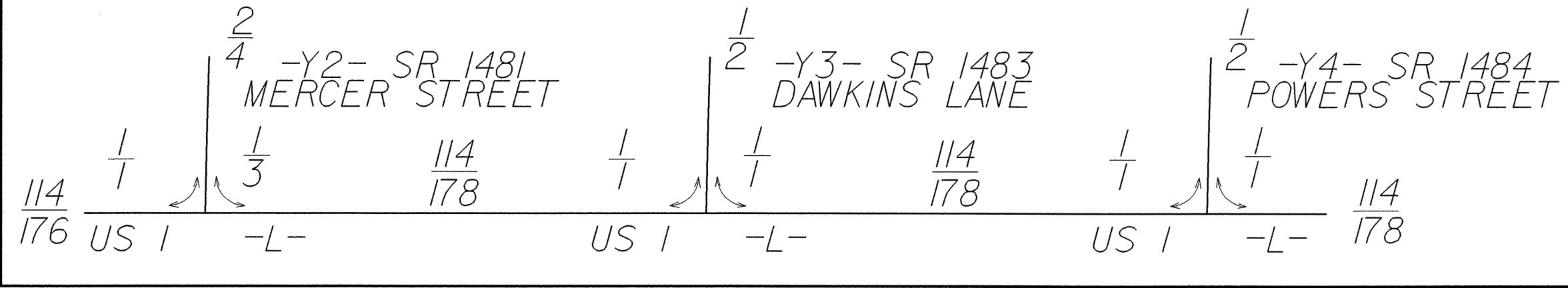
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R2502-2

REVISIONS

UTILITIES BY OTHERS

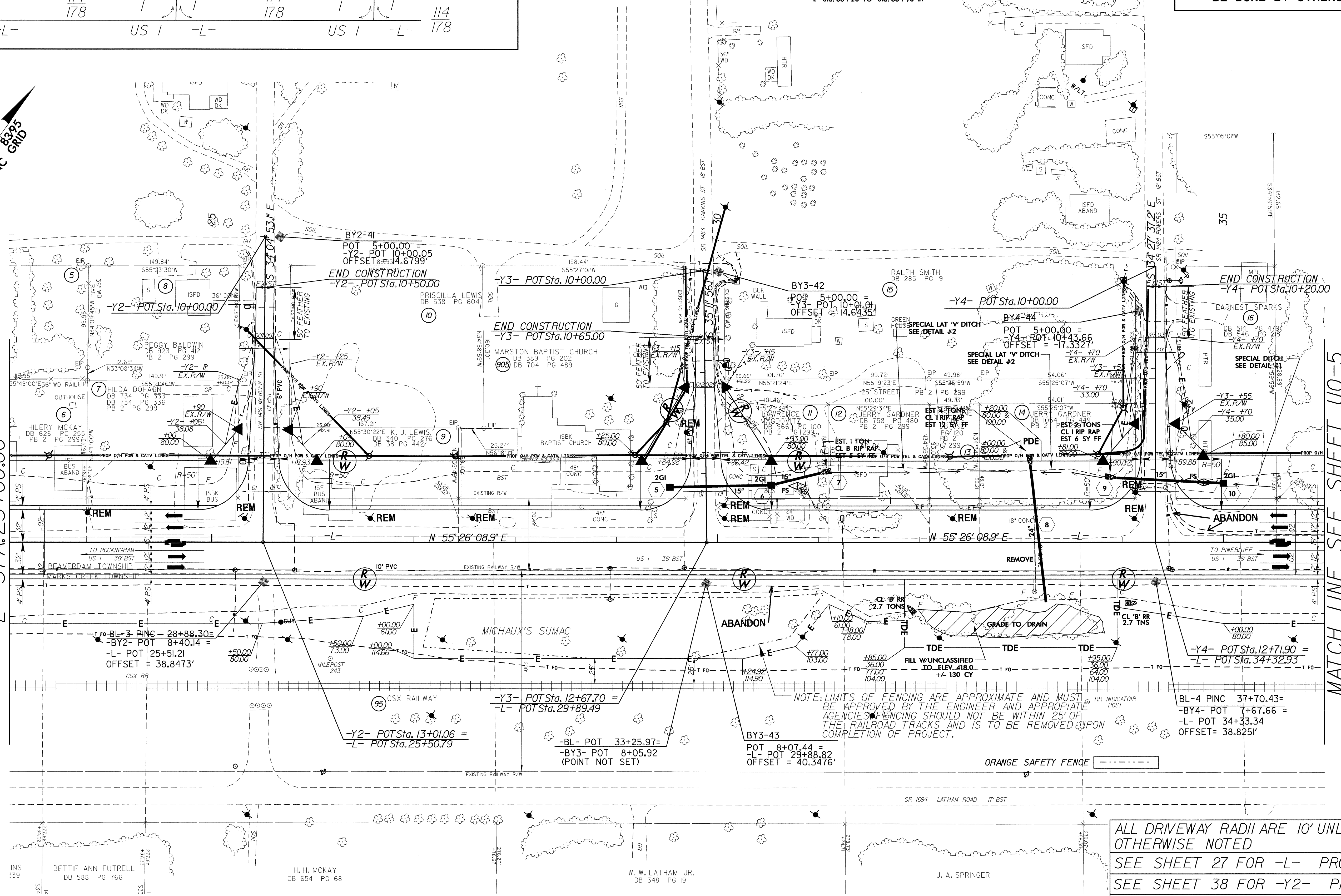
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

2008 ADT IN HUNDREDS  
2028



MATCH LINE SEE SHEET UO-3  
-L- STA. 23+00.00

MATCH LINE SEE SHEET UO-5  
-L- STA. 36+00.00



NOTE: LIMITS OF FENCING ARE APPROXIMATE AND MUST BE APPROVED BY THE ENGINEER AND APPROPRIATE AGENCIES. FENCING SHOULD NOT BE WITHIN 25' OF THE RAILROAD TRACKS AND IS TO BE REMOVED UPON COMPLETION OF PROJECT.

ORANGE SAFETY FENCE

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 27 FOR -L- PROFILE  
SEE SHEET 38 FOR -Y2- PROFILE  
SEE SHEET 38 FOR -Y3- PROFILE  
SEE SHEET 38 FOR -Y4- PROFILE

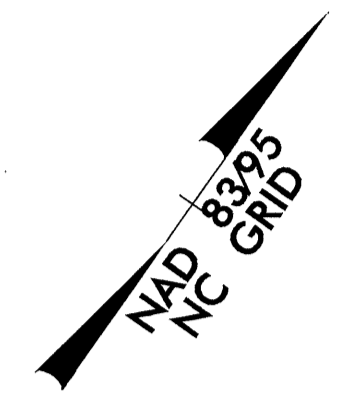
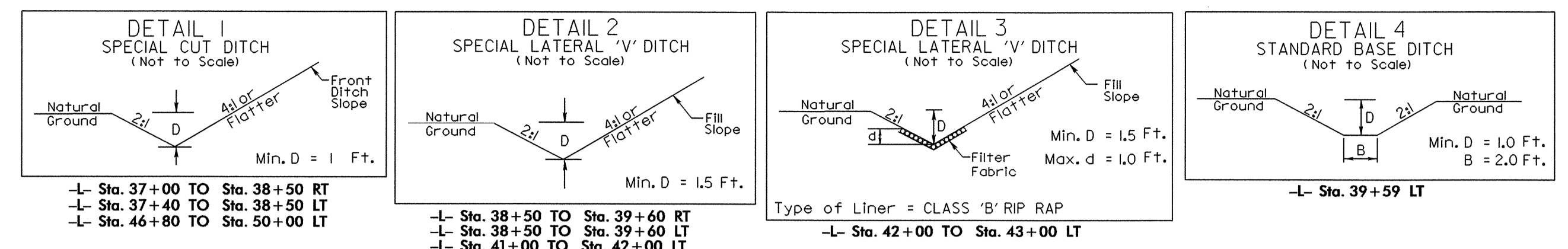
REVISIONS

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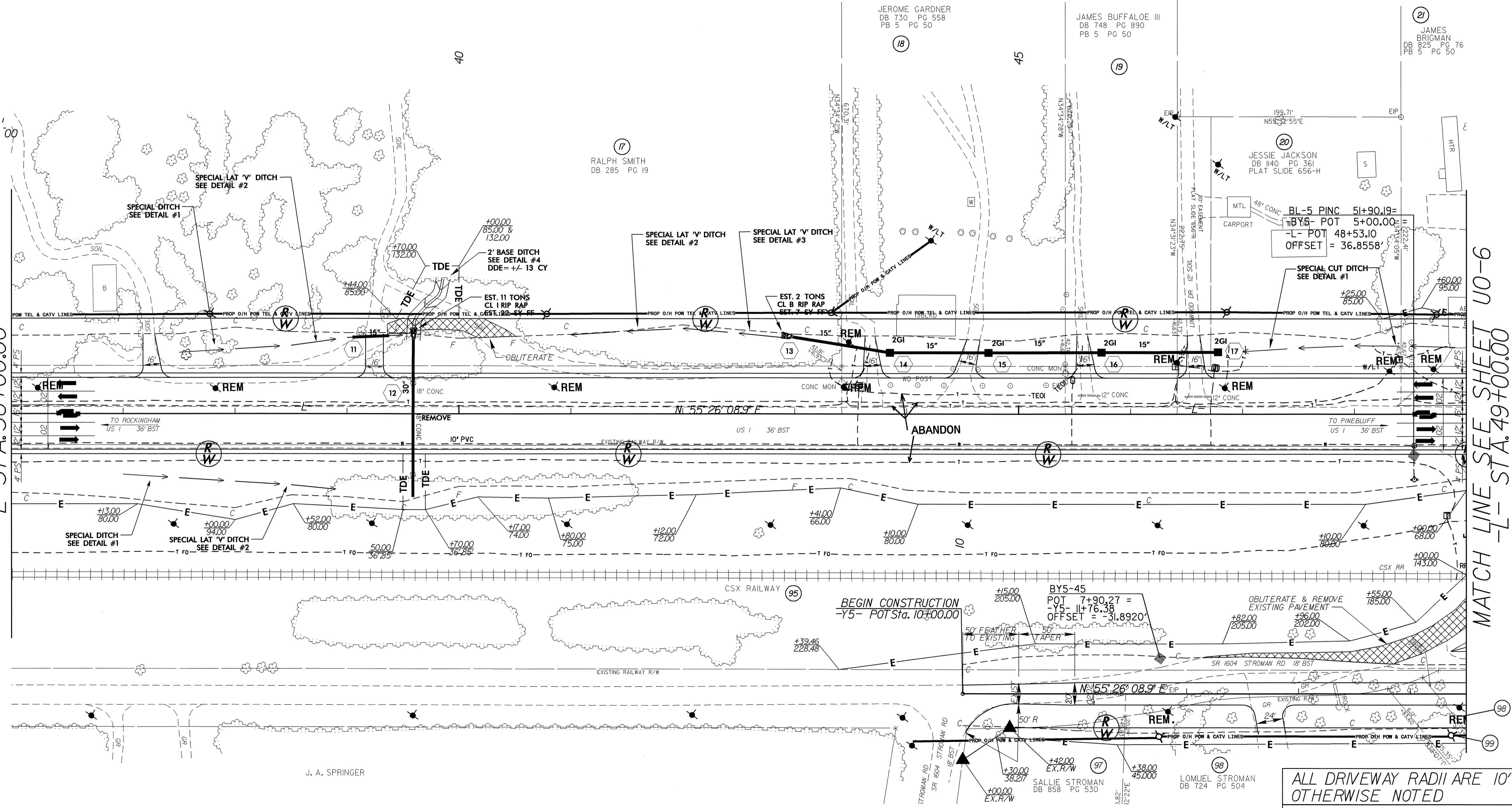
### UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET U0-4  
-L- STA. 36+00.00

MATCH LINE SEE SHEET U0-6  
-L- STA. 49+00.00



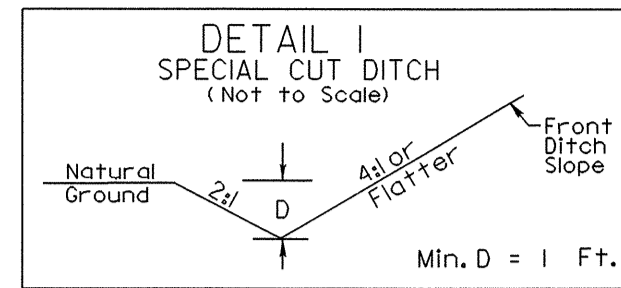
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 27 FOR -L- PROFILE  
SEE SHEET 38 FOR -Y5- PROFILE

REVISIONS

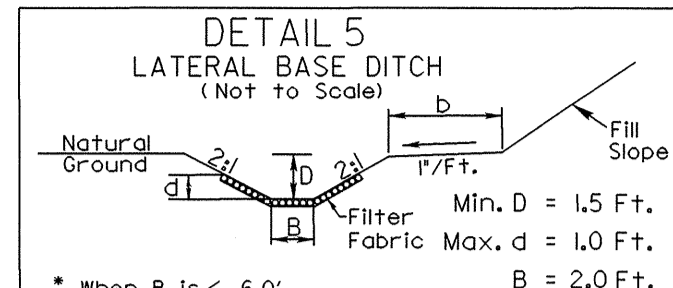
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UTILITIES BY OTHERS

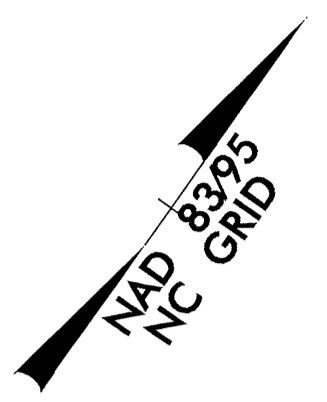
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



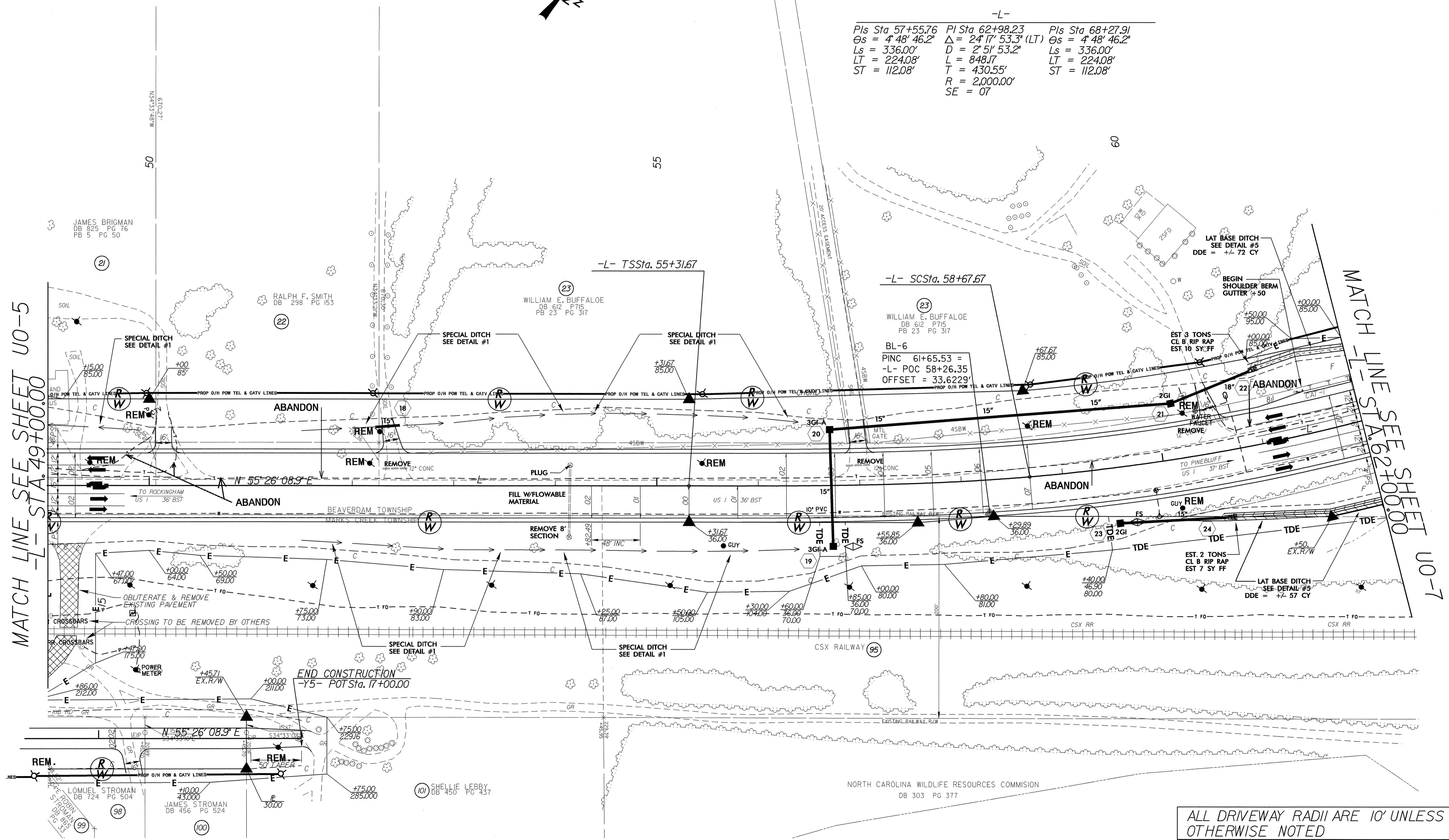
-L- Sta. 46+80 TO Sta. 50+00 LT  
-L- Sta. 51+50 TO Sta. 56+70 RT  
-L- Sta. 51+50 TO Sta. 56+70 LT



\* When B is < 6.0'  
Type of Liner = CLASS 'B' RIP RAP  
-L- Sta. 60+50 TO Sta. 62+50 RT  
-L- Sta. 61+00 TO Sta. 64+00 LT



-L-  
Pls Sta 57+55.76 PI Sta 62+98.23 Pls Sta 68+27.91  
Os = 4° 48' 46.2" Δ = 24° 17' 53.3" (LT) Os = 4° 48' 46.2"  
Ls = 336.00' D = 2° 51' 53.2" Ls = 336.00'  
LT = 224.08' L = 848.17' LT = 224.08'  
ST = 112.08' T = 430.55' ST = 112.08'  
R = 2,000.00'  
SE = 07



MATCH LINE SEE SHEET U0-5  
-L- STA. 49+00.00

MATCH LINE SEE SHEET U0-7  
-L- STA. 62+00.00

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 28 FOR -L- PROFILE  
SEE SHEET 38 FOR -Y5- PROFILE

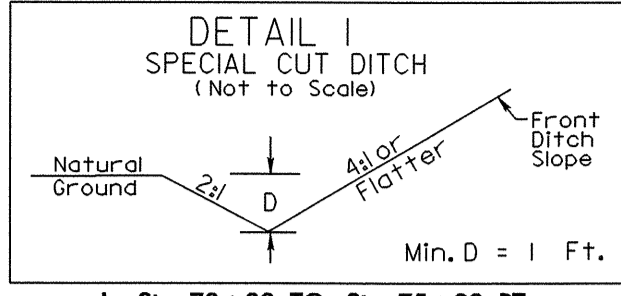
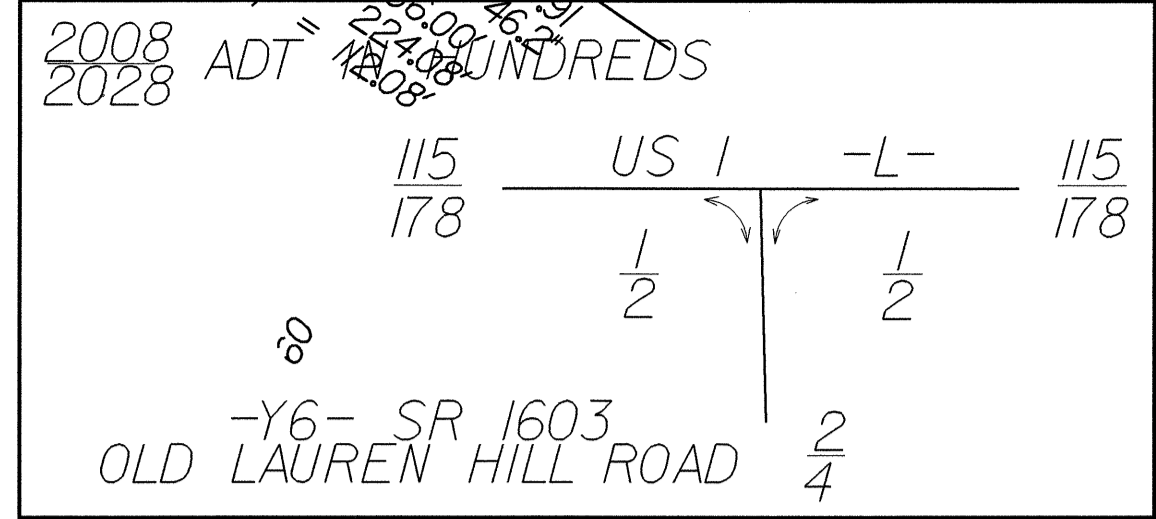
REVISIONS

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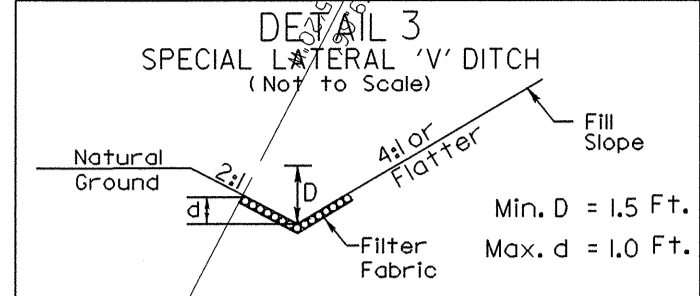
5/14/99

UTILITIES BY OTHERS

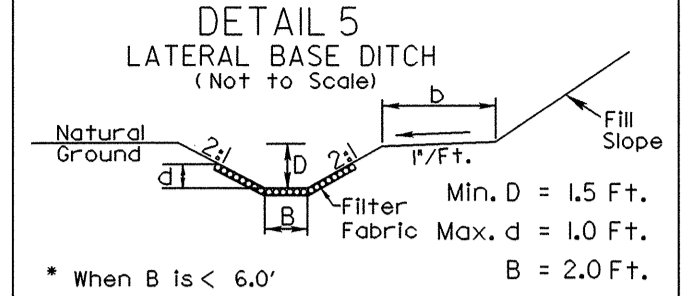
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



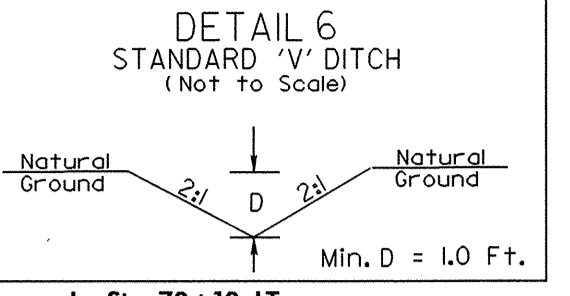
-L- Sta. 70+00 TO Sta. 75+00 RT  
-L- Sta. 70+50 TO Sta. 73+00 LT  
-Y6- Sta. 10+60 TO Sta. 11+50 RT  
-Y6- Sta. 10+60 TO Sta. 11+00 LT



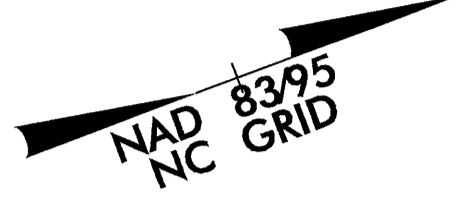
Type of Liner = CLASS 'B' RIP RAP  
-L- Sta. 64+00 TO Sta. 67+50 LT



Type of Liner = CLASS 'B' RIP RAP  
-L- Sta. 60+50 TO Sta. 62+50 RT  
-L- Sta. 61+00 TO Sta. 64+00 LT  
-L- Sta. 62+70 TO Sta. 64+00 RT



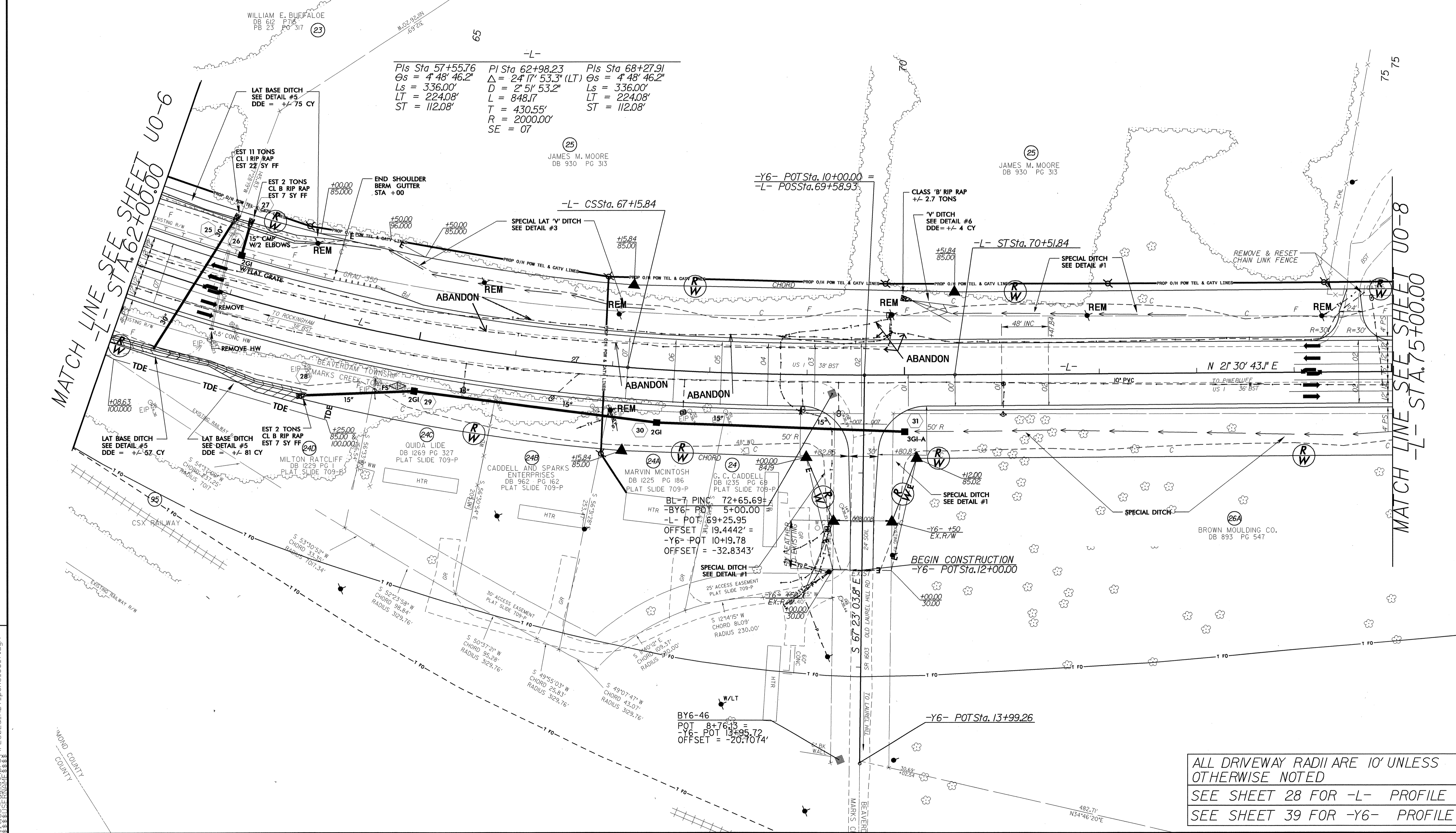
-L- Sta. 70+10 LT



MATCH LINE -L- STA. 62+00.00 U0-6

MATCH LINE -L- STA. 75+00.00 U0-8

-L-  
 Pls Sta 57+55.76    Pls Sta 62+98.23    Pls Sta 68+27.91  
 Δs = 4' 48" 46.2"    Δ = 24' 17" 53.3" (LT) Δs = 4' 48" 46.2"  
 Ls = 336.00'    D = 2' 51" 53.2"    Ls = 336.00'  
 LT = 224.08'    L = 848.17'    LT = 224.08'  
 T = 430.55'    ST = 112.08'  
 R = 2000.00'  
 SE = 07



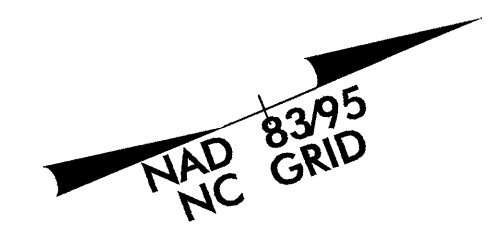
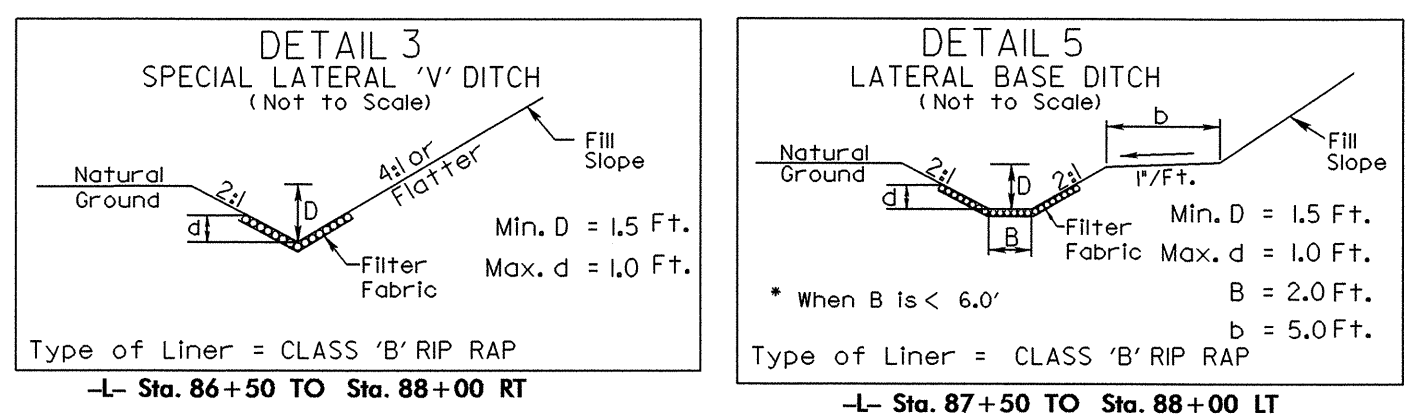
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 28 FOR -L- PROFILE  
 SEE SHEET 39 FOR -Y6- PROFILE

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 WORLD COUNTY



### UTILITIES BY OTHERS

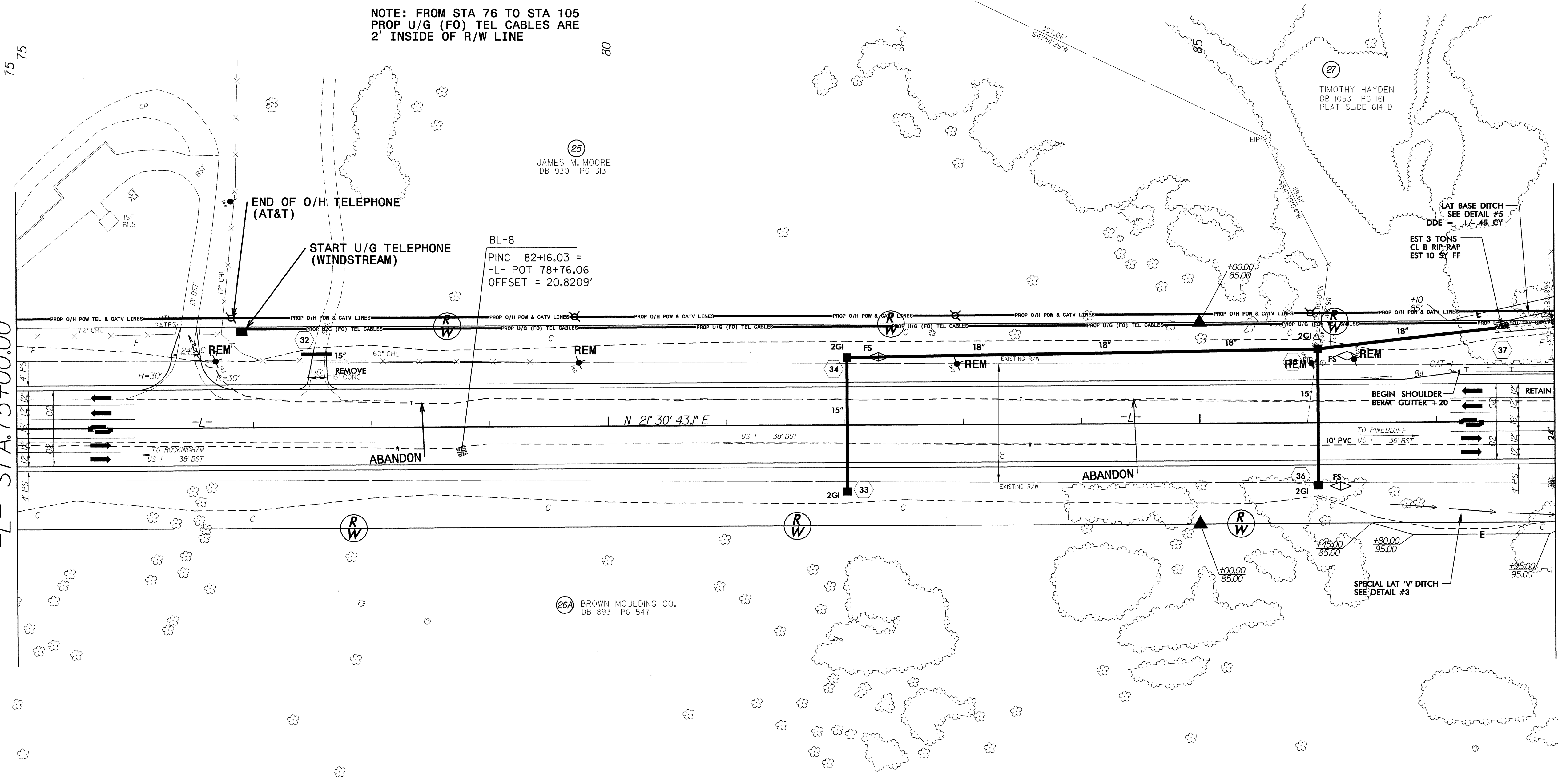
**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



**NOTE: FROM STA 76 TO STA 105  
PROP U/G (FO) TEL CABLES ARE  
2' INSIDE OF R/W LINE**

MAYCH LINE SEE SHEET U0-7  
-L- STA. 75+00.00

MAYCH LINE SEE SHEET U0-9  
-L- STA. 88+00.00



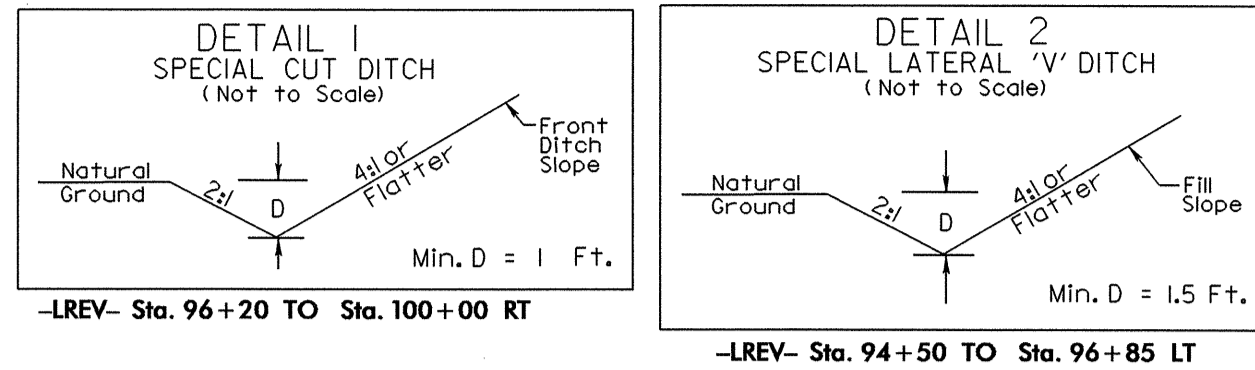
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 29 FOR -L- PROFILE

REVISIONS

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UTILITIES BY OTHERS

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



-L-

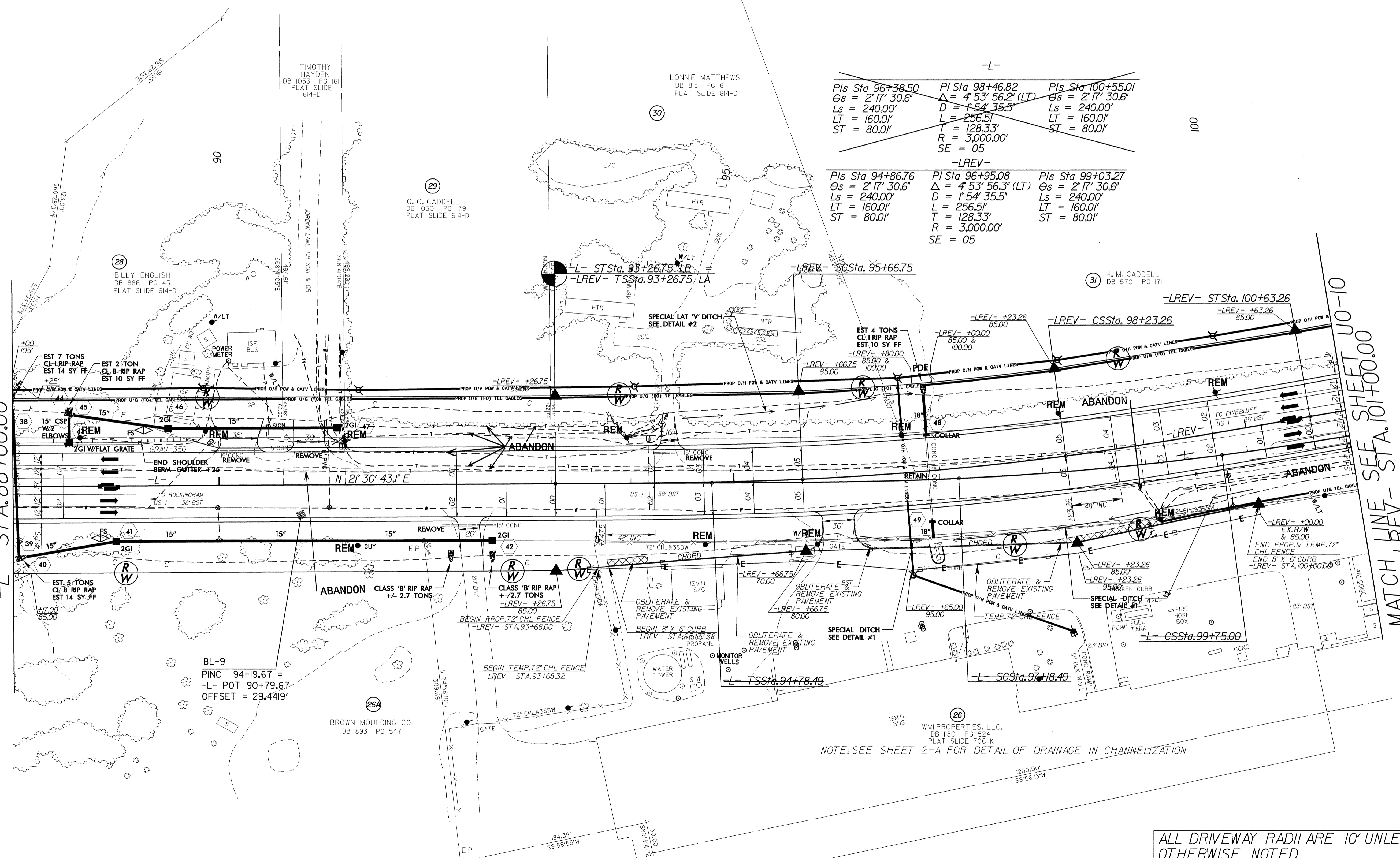
Pls Sta 96+38.50	Pls Sta 98+46.82	Pls Sta 100+55.01
Os = 2'17' 30.6"	Δ = 4'53' 56.2" (LT)	Os = 2'17' 30.6"
Ls = 240.00'	D = 1'54' 35.5"	Ls = 240.00'
LT = 160.01'	L = 256.51'	LT = 160.01'
ST = 80.01'	T = 128.33'	ST = 80.01'
	R = 3,000.00'	
	SE = 05	

-LREV-

Pls Sta 94+86.76	Pls Sta 96+95.08	Pls Sta 99+03.27
Os = 2'17' 30.6"	Δ = 4'53' 56.3" (LT)	Os = 2'17' 30.6"
Ls = 240.00'	D = 1'54' 35.5"	Ls = 240.00'
LT = 160.01'	L = 256.51'	LT = 160.01'
ST = 80.01'	T = 128.33'	ST = 80.01'
	R = 3,000.00'	
	SE = 05	

MATCH LINE SEE SHEET UO-8  
-L- STA. 88+00.00

MATCH LINE -LREV- STA. 101+00.00 SEE SHEET UO-10



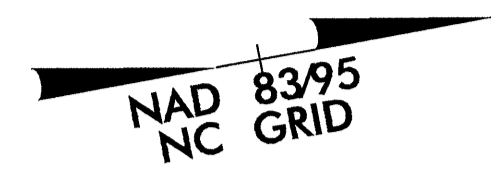
NOTE: SEE SHEET 2-A FOR DETAIL OF DRAINAGE IN CHANNELIZATION

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 29 FOR -L- PROFILE  
SEE SHEET 29 FOR -LREV- PROFILE

5/14/99  
REVISIONS  
03-JUN-2008 10:35  
2502a-RDY\_psh10\_UO-9.dgn  
11:51 AM  
11:51 AM

UTILITIES BY OTHERS

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



~~PIs Sta 96+38.50  $\Delta = 4' 53'' 56.2''$  (LT)  $\Delta = 2' 17'' 30.6''$   
 $\Delta = 2' 17'' 30.6''$   $\Delta = 1' 54'' 35.5''$   $\Delta = 2' 17'' 30.6''$   
 $L_s = 240.00'$   $L = 256.5'$   $L_s = 240.00'$   
 $LT = 160.0'$   $T = 128.33'$   $LT = 160.0'$   
 $ST = 80.0'$   $R = 3,000.00'$   $ST = 80.0'$   
 $SE = 05$~~

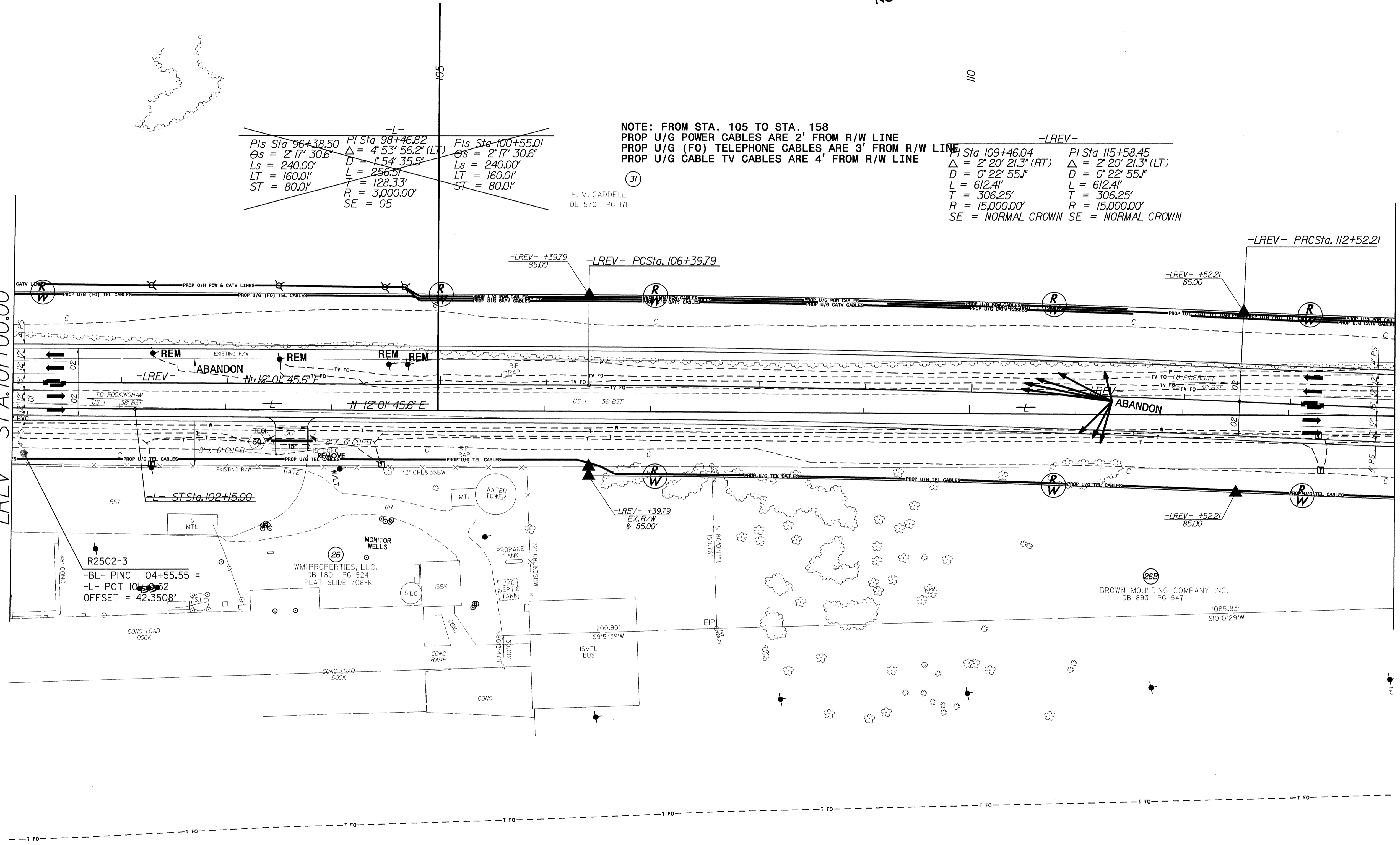
NOTE: FROM STA. 105 TO STA. 158  
 PROP U/G POWER CABLES ARE 2' FROM R/W LINE  
 PROP U/G (FO) TELEPHONE CABLES ARE 3' FROM R/W LINE  
 PROP U/G CABLE TV CABLES ARE 4' FROM R/W LINE

~~PIs Sta 109+46.04  $\Delta = 2' 20'' 21.3''$  (RT)  $\Delta = 2' 20'' 21.3''$  (LT)  
 $\Delta = 2' 20'' 21.3''$  (RT)  $\Delta = 2' 20'' 21.3''$  (LT)  
 $D = 0' 22'' 55.1''$   $D = 0' 22'' 55.1''$   
 $L = 612.4'$   $L = 612.4'$   
 $T = 306.25'$   $T = 306.25'$   
 $R = 15,000.00'$   $R = 15,000.00'$   
 $SE = \text{NORMAL CROWN}$   $SE = \text{NORMAL CROWN}$~~

H. M. CADDELL  
DB 570 PG 171

MATCH LINE SEE SHEET UO-9  
-LREV- STA. 101+00.00

MATCH LINE SEE SHEET UO-11  
-LREV- STA. 114+00.00



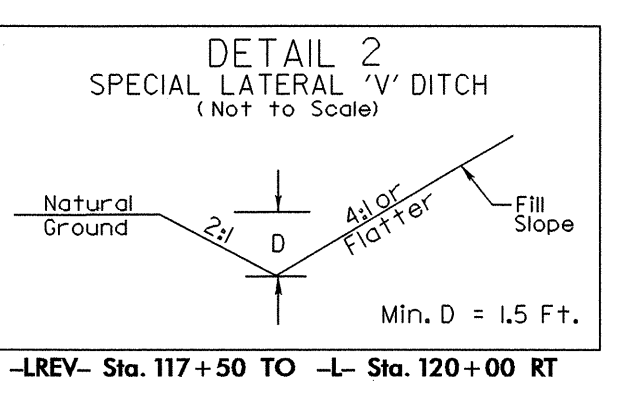
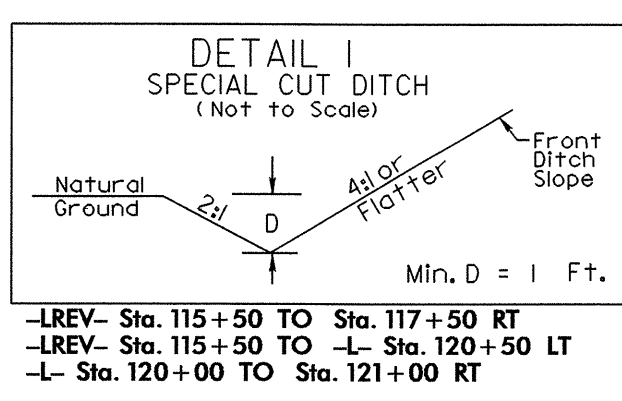
REVISIONS

5/14/99  
03-JUN-2008 10:34  
\\s:\ut\1\03-JUN-2008 10:34  
R-2502a\_RDY\_psh11\_UO-10.dgn

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 30 FOR -LREV- PROFILE

UTILITIES BY OTHERS

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

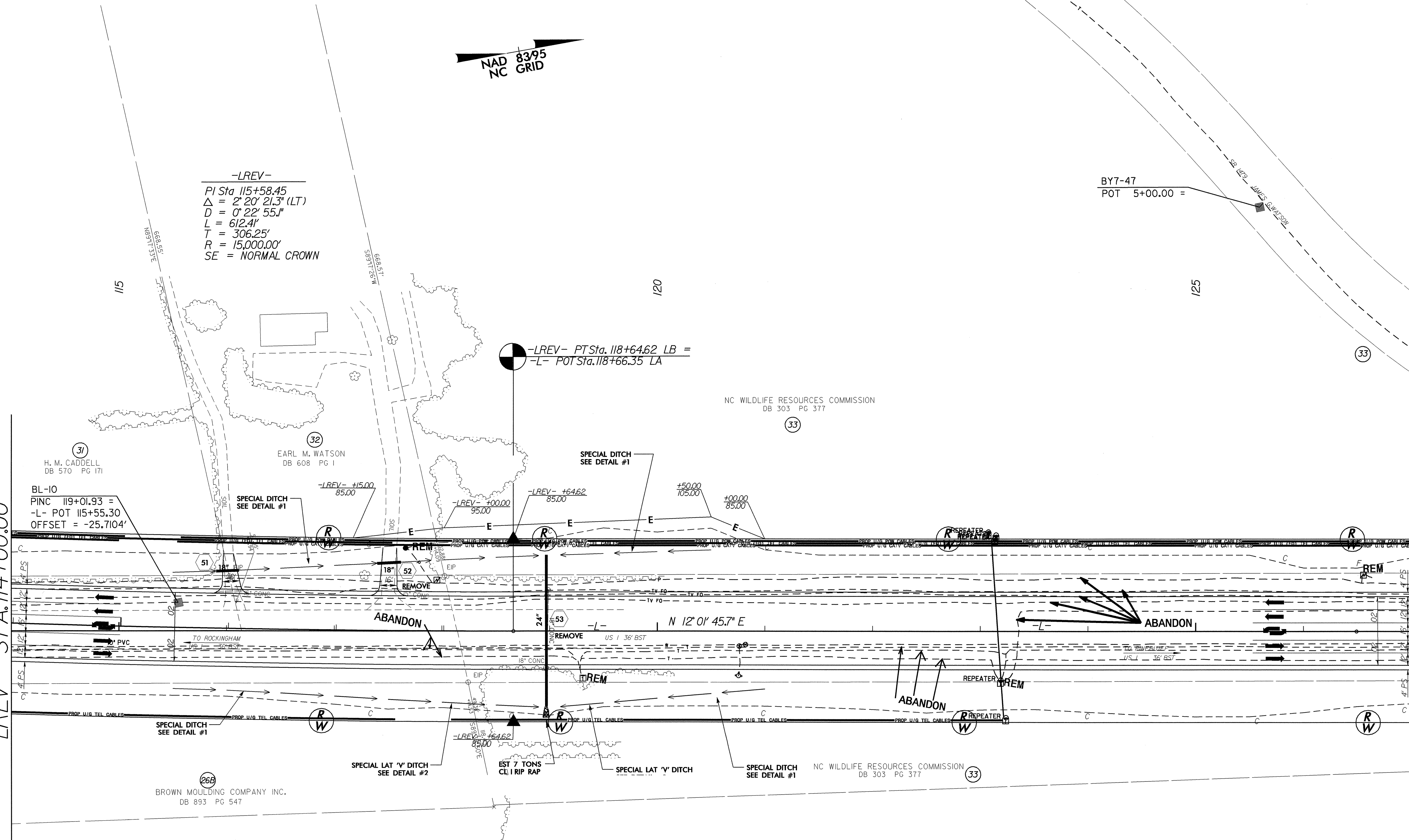


NAD 83  
NC GRID

-LREV-  
PI Sta. 115+58.45  
 $\Delta = 2^\circ 20' 21.3''$  (LT)  
D = 0' 22' 55.1"  
L = 612.4'  
T = 306.25'  
R = 15,000.00'  
SE = NORMAL CROWN

MATCH LINE SEE SHEET U0-10  
-LREV- STA. 114+00.00

MATCH LINE SEE SHEET U0-12  
-L- STA. 127+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 30 FOR -L- PROFILE  
SEE SHEET 30 FOR -LREV- PROFILE

REVISIONS

5/14/99  
03-JUN-2008 10:34  
\\nct11\proj\2502a\RDY\_psh12\_U0\_11.dgn

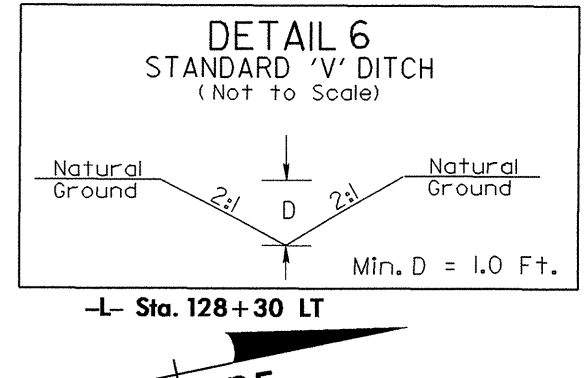
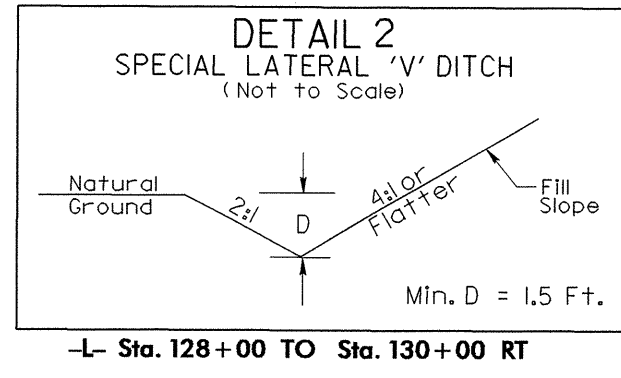
UTILITIES BY OTHERS

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

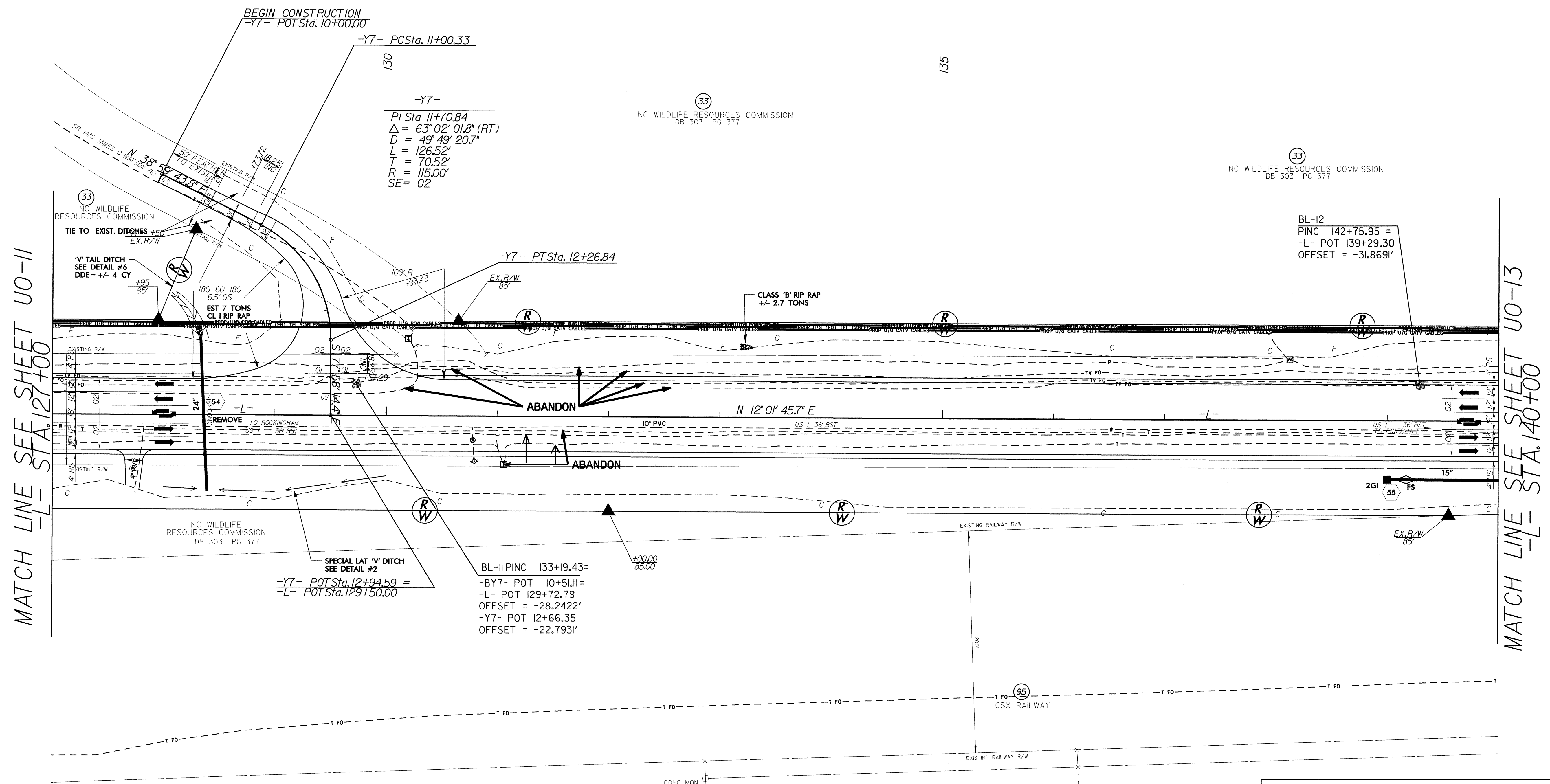
2008 ADT IN HUNDREDS  
2028

-Y7- SR 1479  
JAMES G. WATSON RD

115 178 US 1 -L- 179



NAD 83/95  
NC GRID



MATCH LINE SEE SHEET U0-11  
-L- STA. 127+00

MATCH LINE SEE SHEET U0-13  
-L- STA. 140+00

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 31 FOR -L- PROFILE  
SEE SHEET 39 FOR -Y7- PROFILE

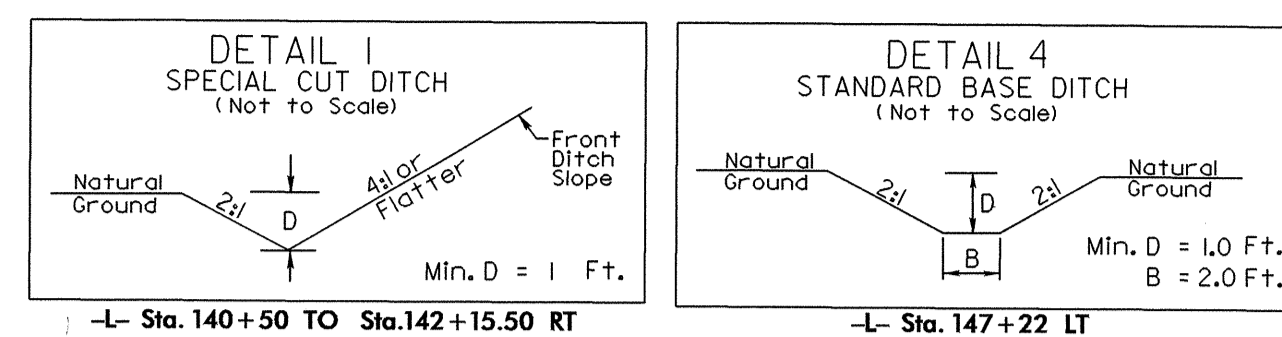
REVISIONS

5/14/99

03-JUN-2008 10:33  
\\s01\proj\2502a\RDY\_psh13\_U0\_12.dgn

### UTILITIES BY OTHERS

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



140  
140

145

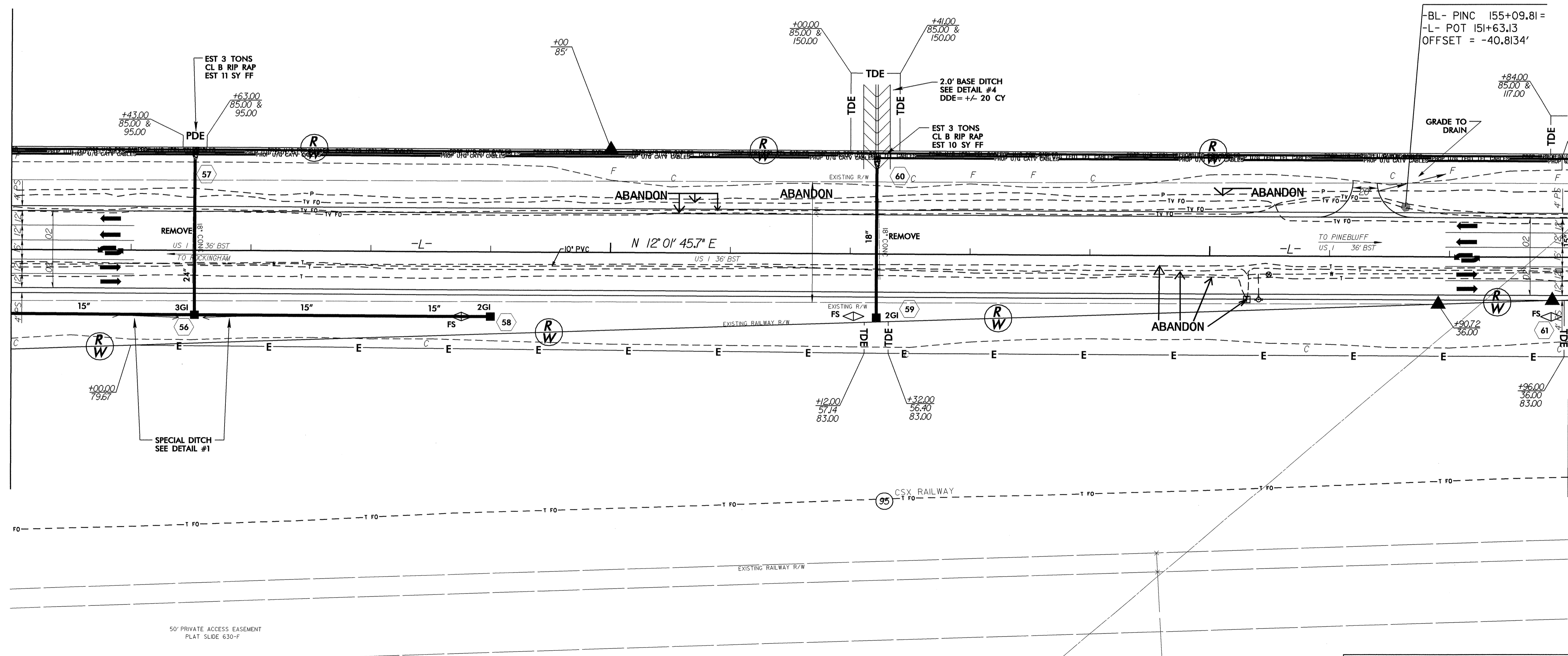
150

NC WILDLIFE RESOURCES COMMISSION  
DB 303 PG 377

R2502-4  
-BL- PINC 155+09.81 =  
-L- POT 151+63.13  
OFFSET = -40.8134'

MATCH LINE SEE SHEET U0-12  
-L- STA. 140+00.00

MATCH LINE SEE SHEET U0-14  
-L- STA. 153+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 31 FOR -L- PROFILE

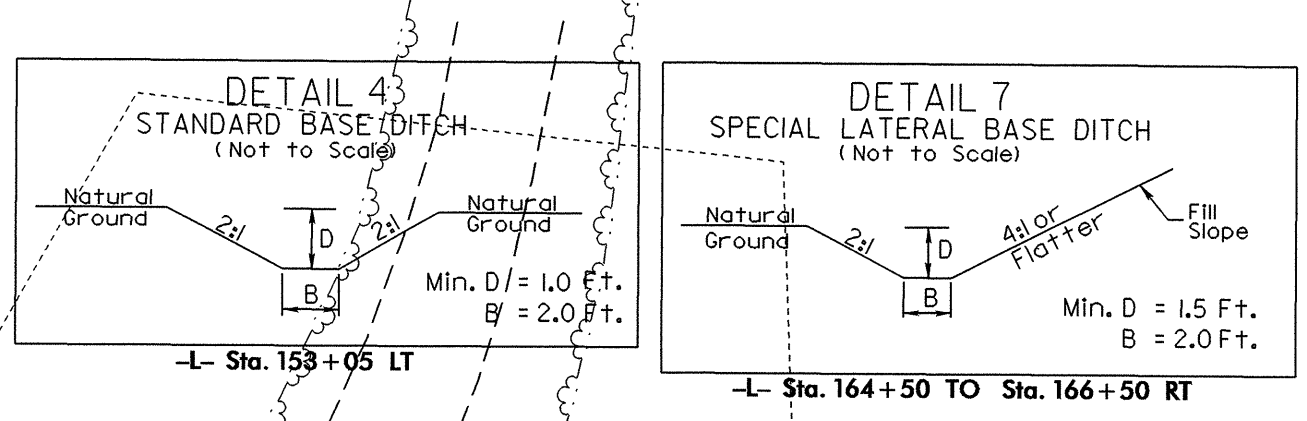
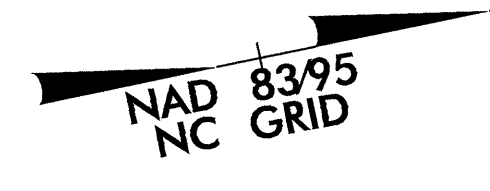
REVISIONS

03-JUN-2008 10:33  
\\s01\proj\2502a\RDY\_psh14\_u013.dgn

5/14/99

### UTILITIES BY OTHERS

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

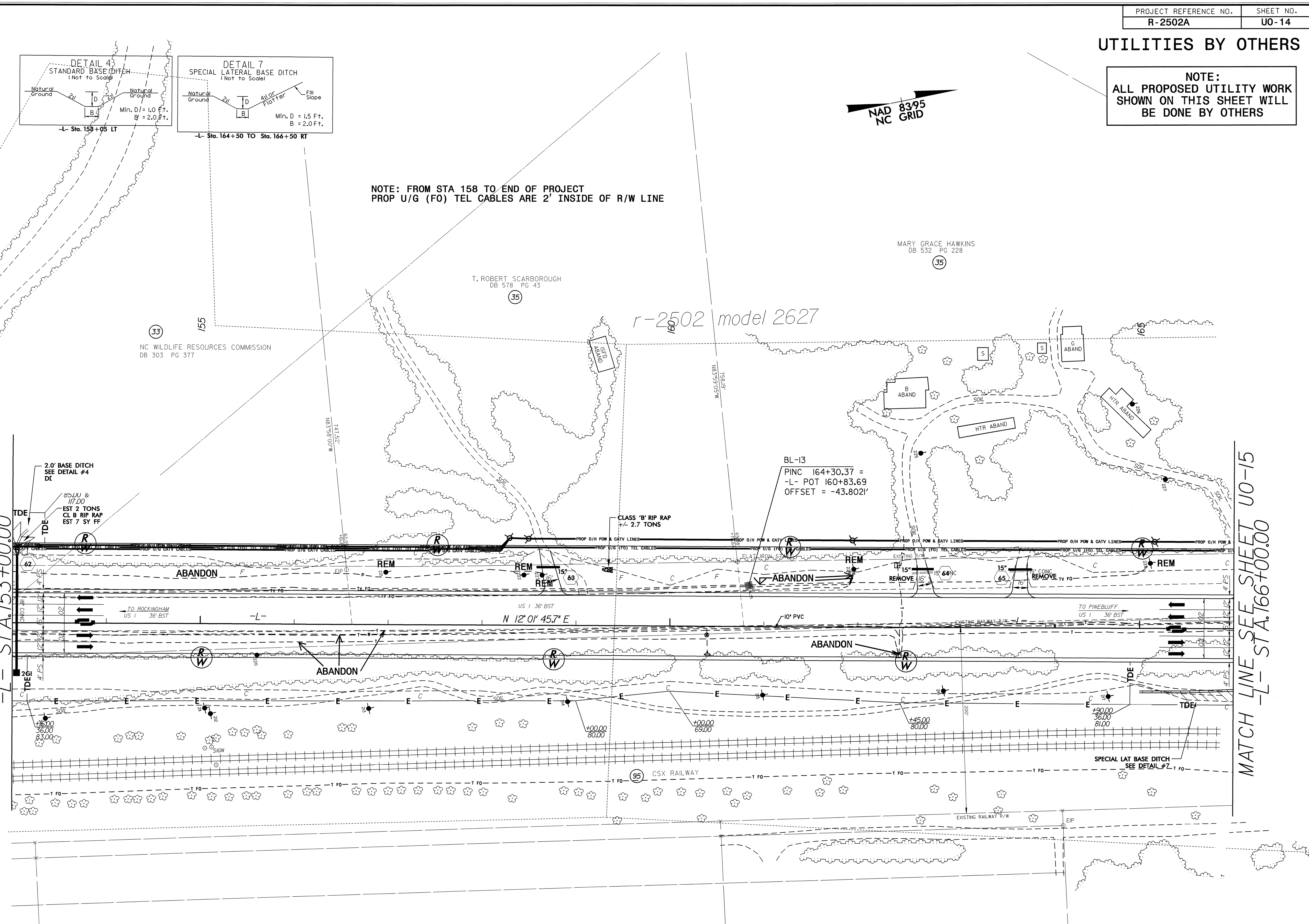


**NOTE:** FROM STA 158 TO END OF PROJECT  
PROP U/G (FO) TEL CABLES ARE 2' INSIDE OF R/W LINE

5/14/99  
 REVISIONS  
 03-JUN-2008 10:33 AM  
 TIGHE, L. D.  
 R-2502a-RD1-psht15-uo14.dgn

MATCH LINE SEE SHEET U0-13  
 -L- STA. 153+00.00

MATCH LINE SEE SHEET U0-15  
 -L- STA. 166+00.00

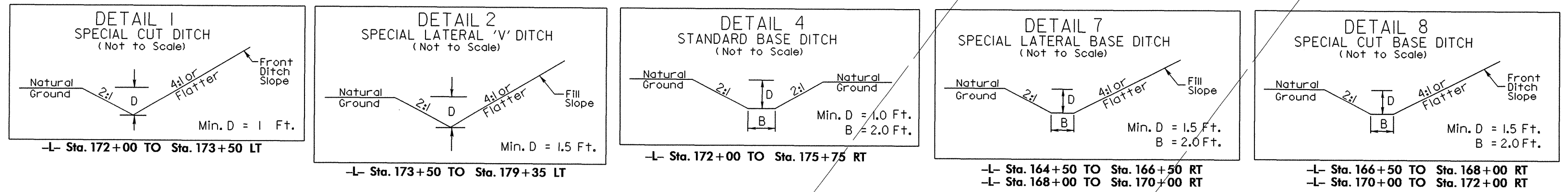


THOMAS L. TIGHE  
DB 984 PG 258

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 32 FOR -L- PROFILE

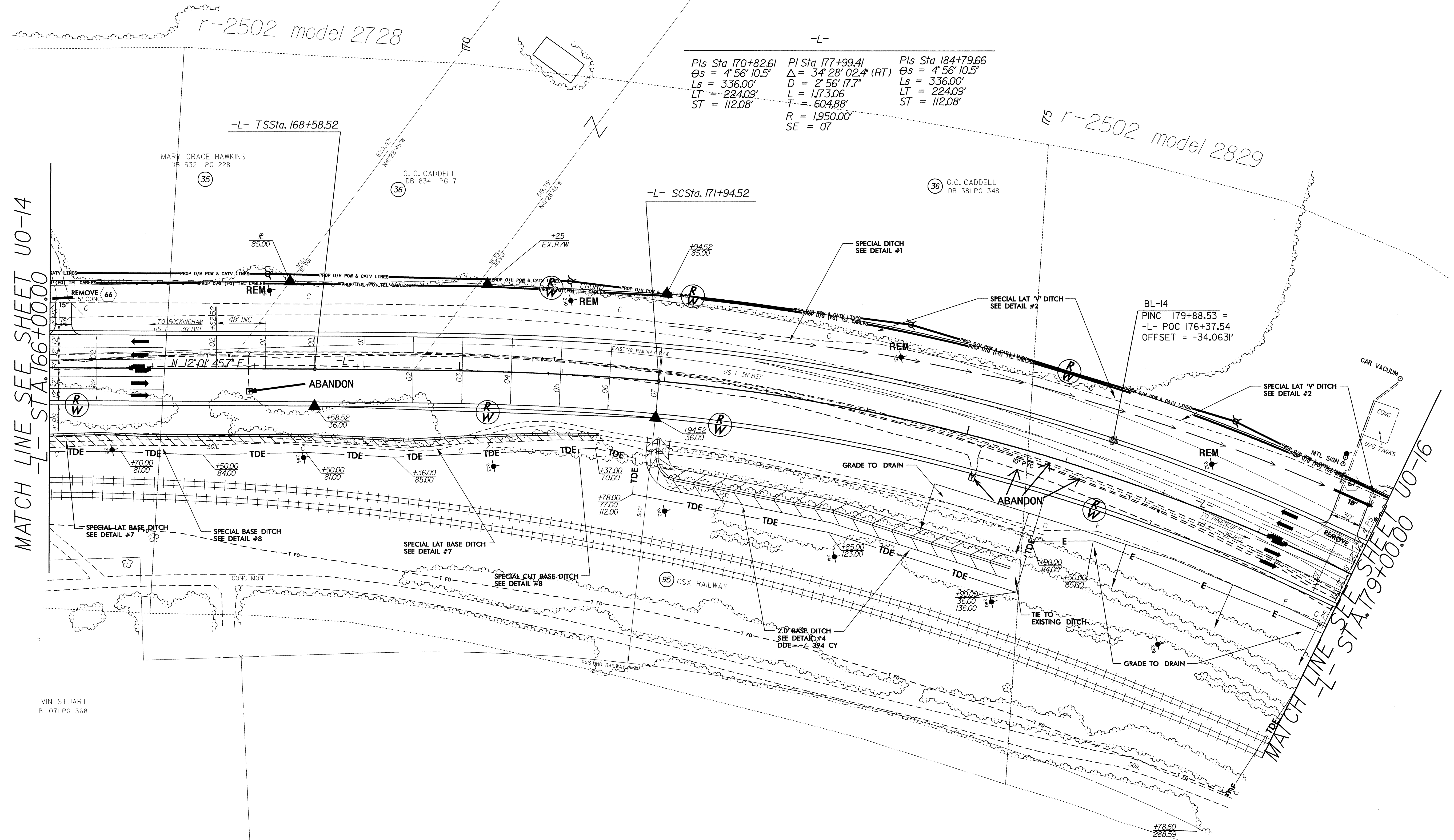
UTILITIES BY OTHERS

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



-L-

Pls Sta 170+82.61 Δs = 4° 56' 10.5" Ls = 336.00' LT = 224.09' ST = 112.08'	Pl Sta 177+99.41 Δ = 34° 28' 02.4" (RT) D = 2° 56' 17.7" L = 1,73.06' T = 604.88' R = 1,950.00' SE = 07	Pls Sta 184+79.66 Δs = 4° 56' 10.5" Ls = 336.00' LT = 224.09' ST = 112.08'
--	---	--



MATCH LINE SEE SHEET U0-14  
-L- STA. 166+00.00

MATCH LINE SEE SHEET U0-16  
-L- STA. 179+00.00

VIN STUART  
B 1071 PG 368

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 32 FOR -L- PROFILE

5/14/99  
03-JUN-2008 10:32  
1:38:57 PM  
\\s367\share\psh16\psh16\_2502a\_RDY\_psh16\_U015.dgn

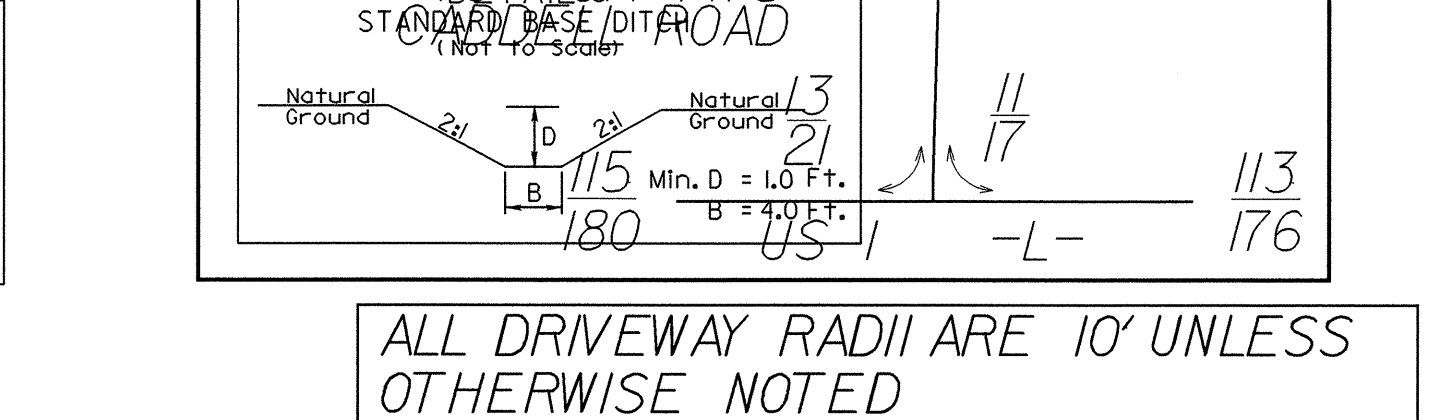
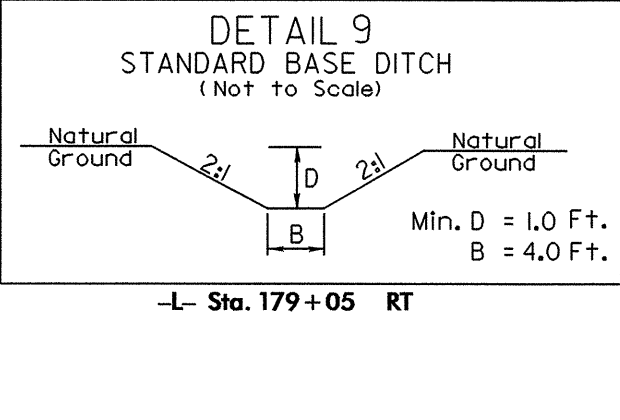
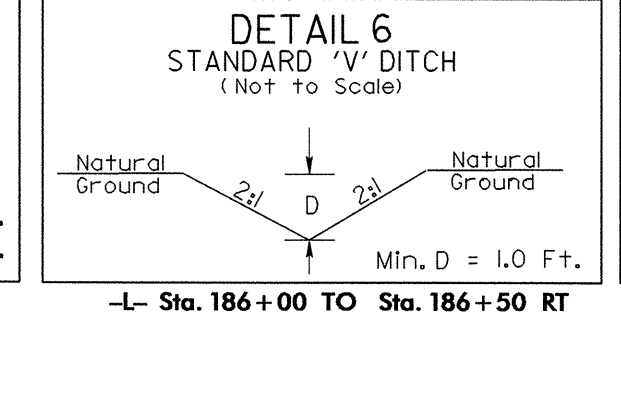
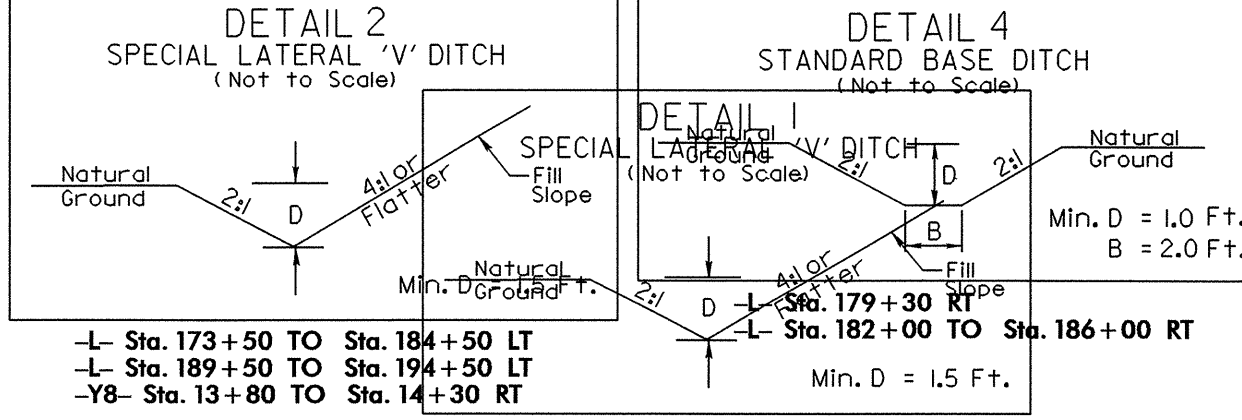
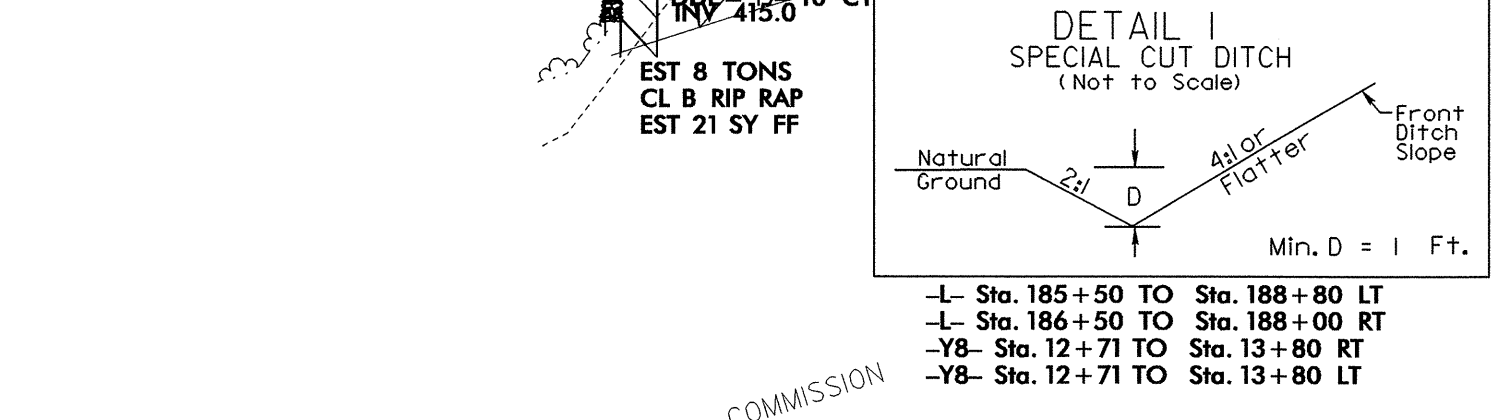
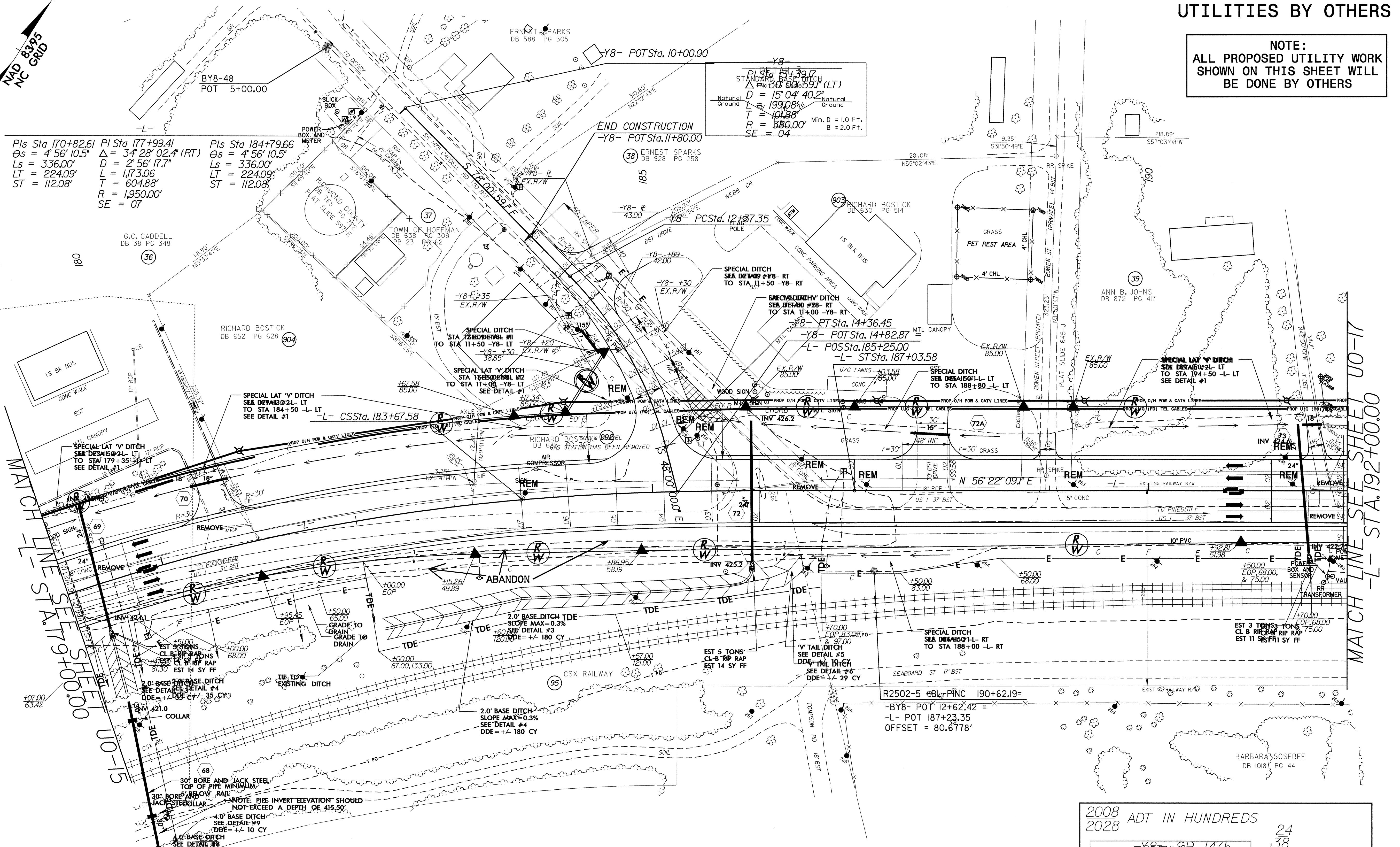


UTILITIES BY OTHERS

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

Pls Sta 170+82.61 PI Sta 177+99.41  
 $\Theta_s = 4'56''10.5''$   $\Delta = 34'28''02.4''$  (RT)  
 $L_s = 336.00'$   $D = 2'56''17.7''$   
 $LT = 224.09'$   $L = 1173.06'$   
 $ST = 112.08'$   $T = 604.88'$   
 $R = 1,950.00'$   $ST = 112.08'$   
 $SE = 07'$

STANDARD BASE DITCH (LT)  
 $D = 15'04''40.2''$   
 $L = 199.08'$   
 $T = 101.88'$   
 $R = 380.00'$  Min. D = 1.0 Ft.  
 $B = 2.0$  Ft.  
 $SE = 04'$



2008 ADT IN HUNDREDS

24	38
115	113
180	176

DETAIL SR 1475  
STANDARD BASE DITCH  
(Not to Scale)

Natural Ground 2' D 2' B 1' Natural Ground 13  
 Min. D = 1.0 Ft.  
 B = 4.0 Ft.

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 33 FOR -L- PROFILE  
 SEE SHEET 39 FOR -Y8- PROFILE

SEE SHEET 2-D FOR R/W ALIGNMENT DATA

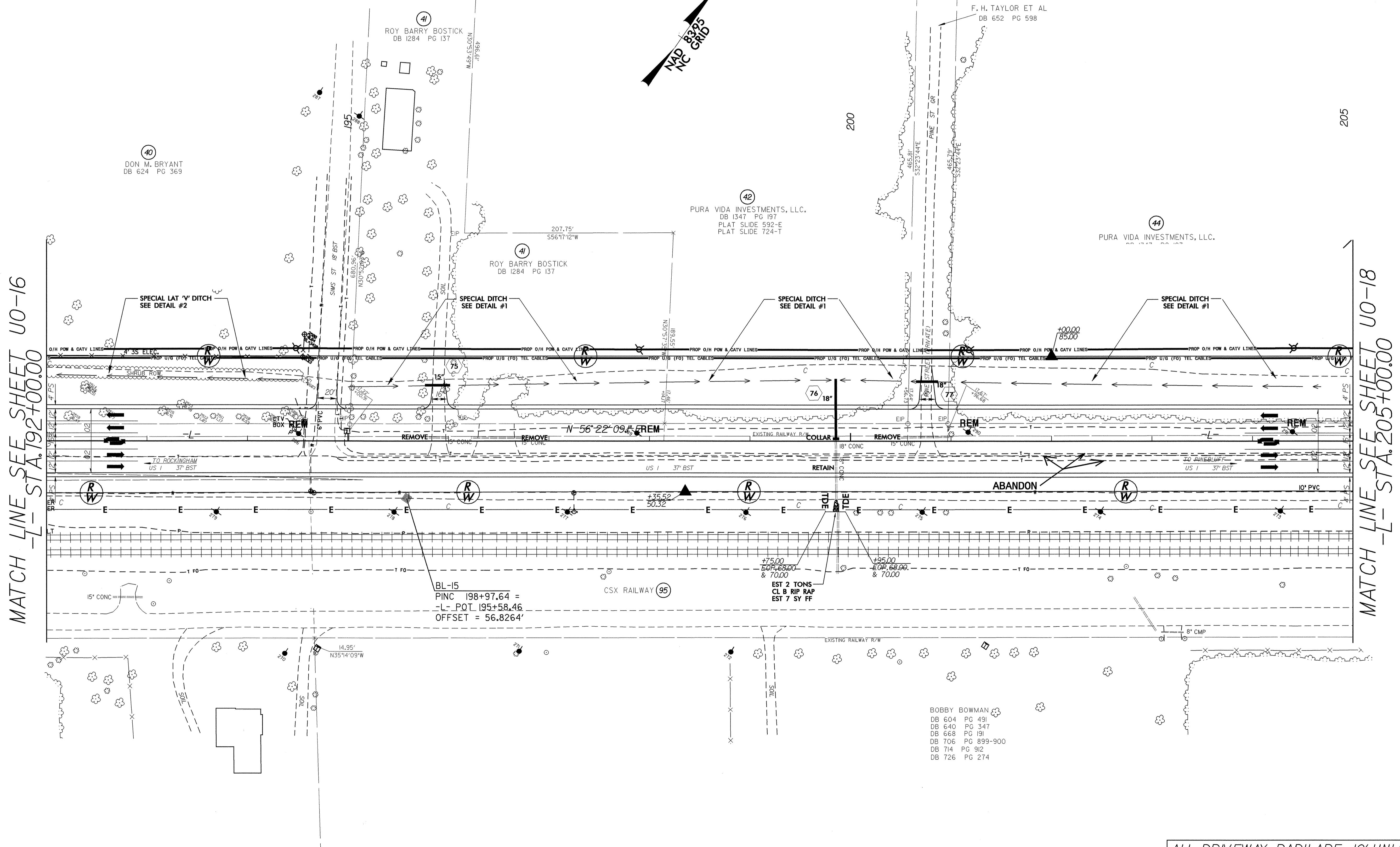
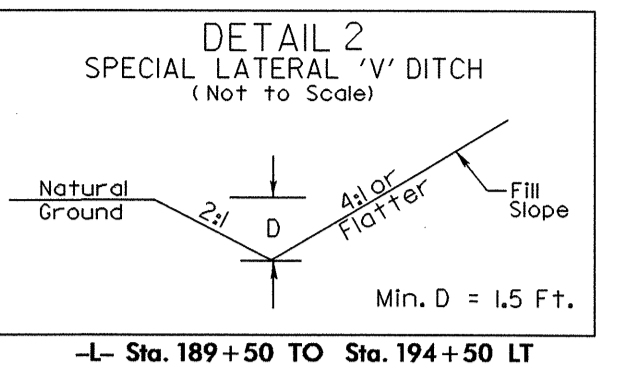
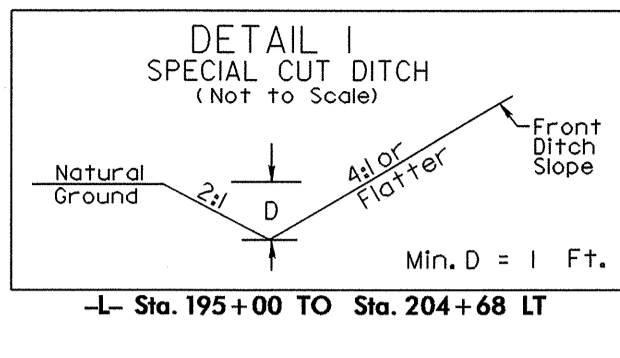
REVISIONS

5/14/09

North 03-JUN-2008 10:32 -2502a-RDY\_psh17\_U0-16.dgn

UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET U0-16  
-L- STA. 192+00.00

MATCH LINE SEE SHEET U0-18  
-L- STA. 205+00.00

REVISIONS

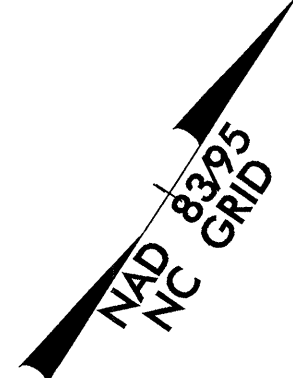
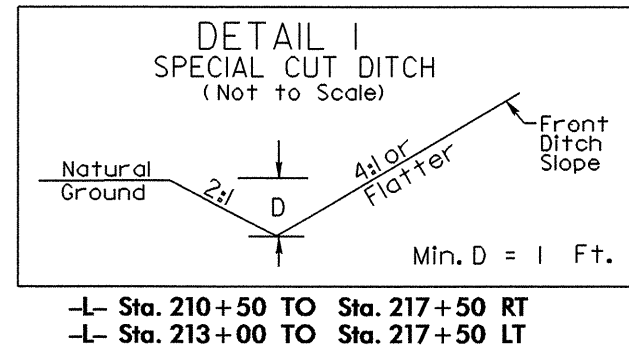
03-JUN-2008 10:31  
\\utl1\...r-2502a.rdy\_psh18\_u0\_17.dgn

SEE SHEET 2-E FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 33 FOR -L- PROFILE

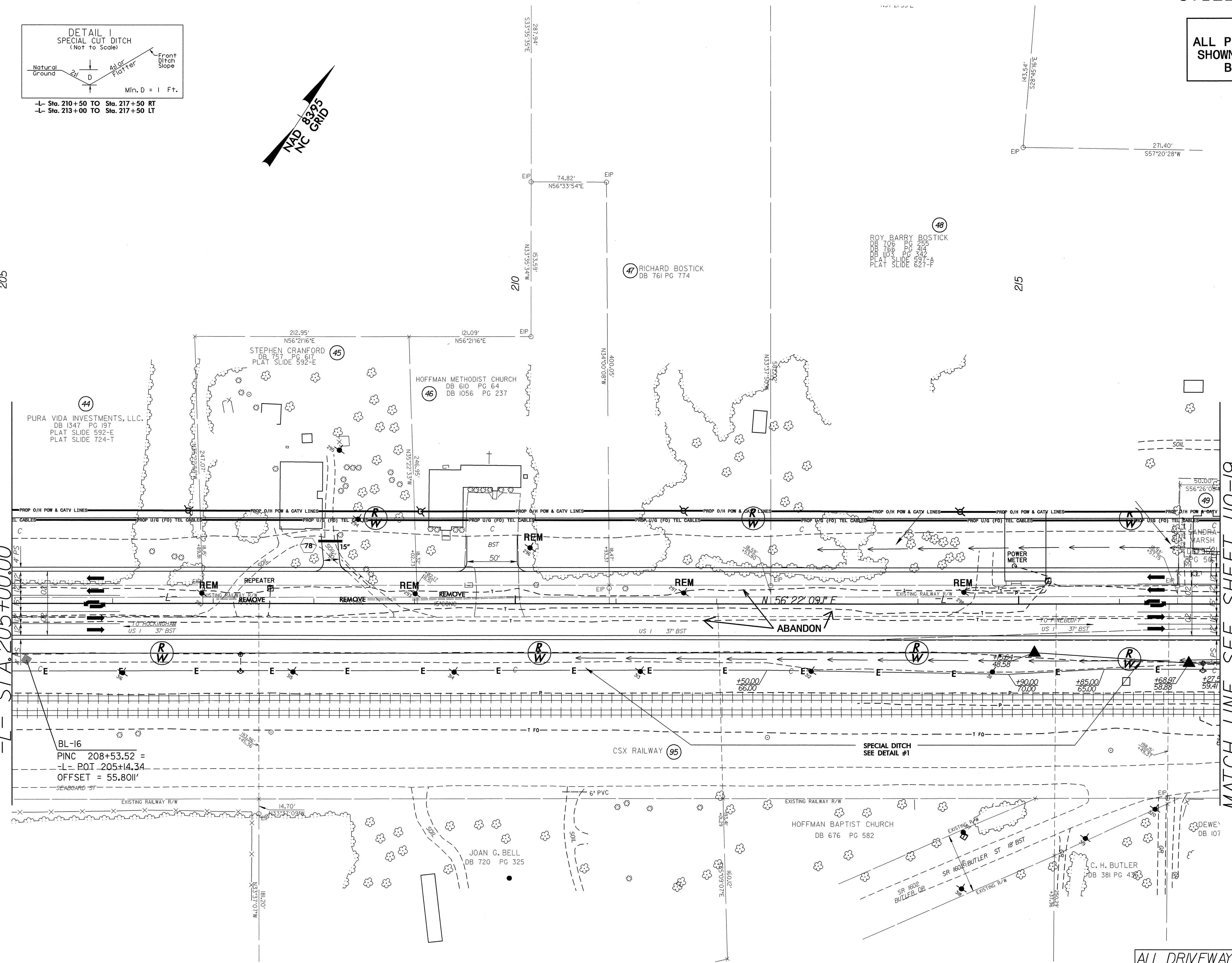
UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET UO-17  
-L- STA. 205+00.00

MATCH LINE SEE SHEET UO-19  
-L- STA. 217+00.00



BL-16  
PINC 208+53.52 =  
-L- POT 205+14.34  
OFFSET = 55.8011'

SEE SHEET 2-F FOR R/W ALIGNMENT DATA

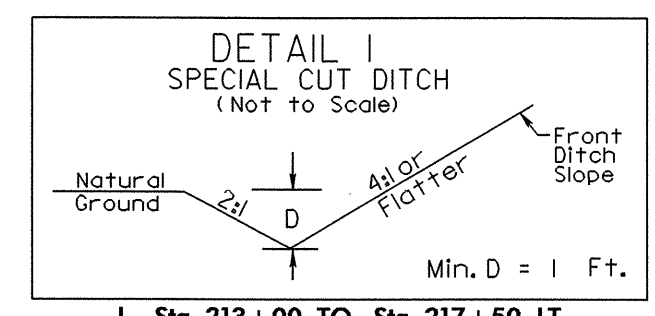
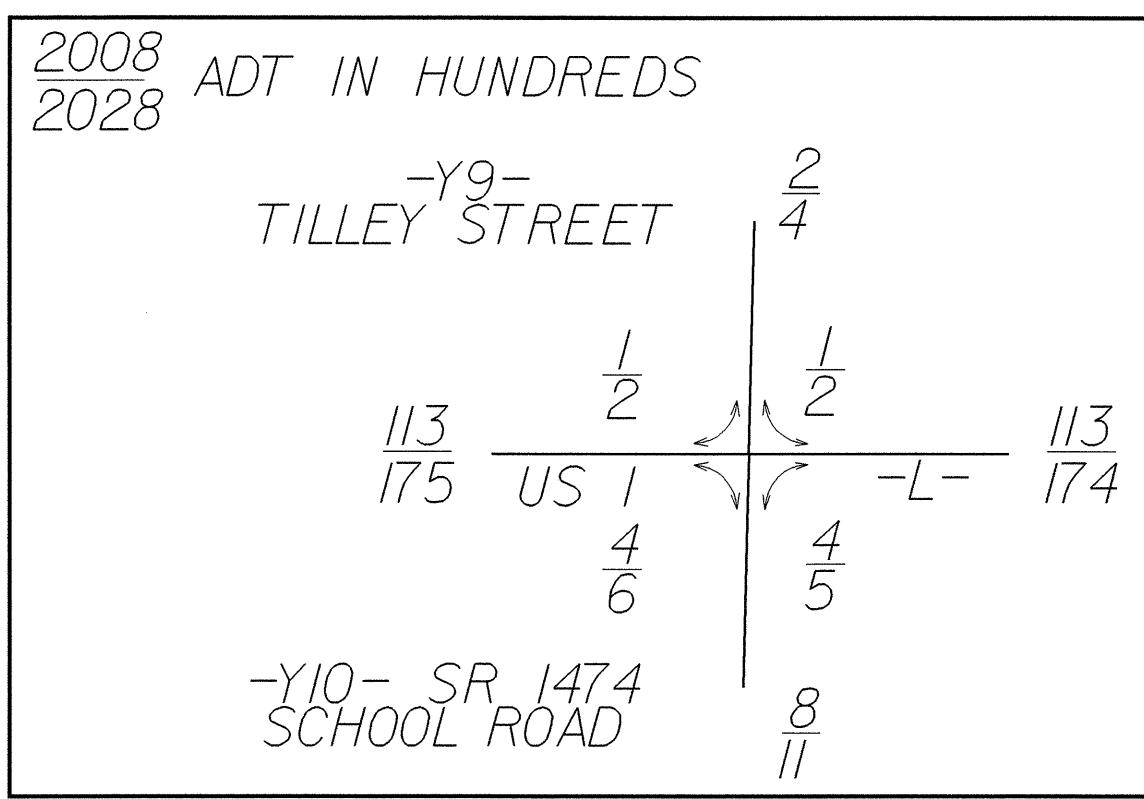
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 34 FOR -L- PROFILE

REVISIONS

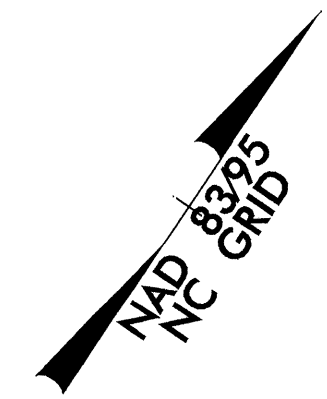
5/14/99  
03-JUN-2008 10:31  
\\files\cadd\pcoy\2502a\_RDY\_psh19\_UO-18.dgn

### UTILITIES BY OTHERS

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



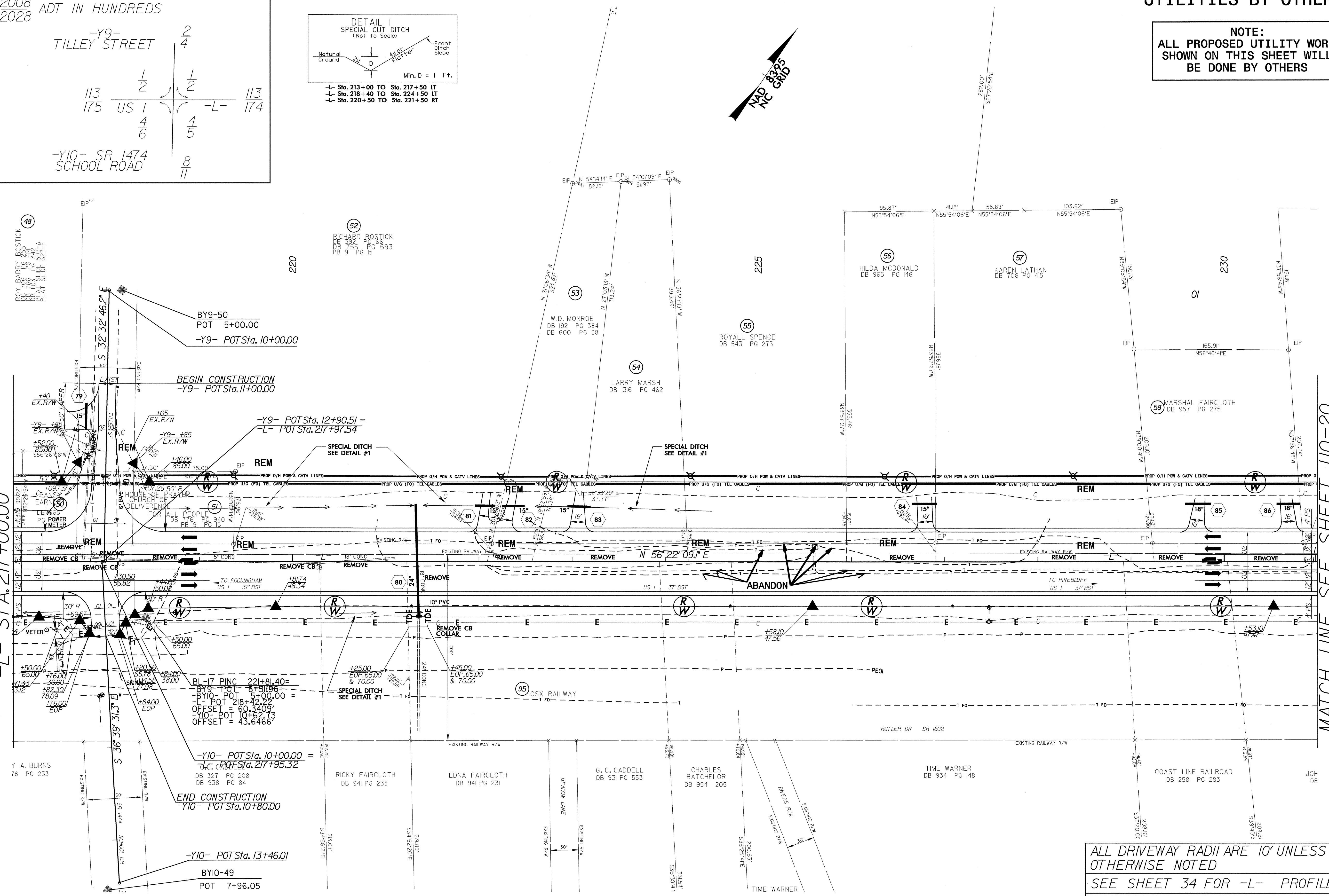
- L- Sta. 213+00 TO Sta. 217+50 LT
- L- Sta. 218+40 TO Sta. 224+50 LT
- L- Sta. 220+50 TO Sta. 221+50 RT



REVISIONS  
 R/W REVISION - ADDED PARCEL NUMBER, RIGHT OF WAY, TEMP. CONST. EASEMENT & TEMP. DRAINAGE EASEMENT ALONG CSX RAILWAY  
 R/W REVISION - REVISED PROPOSED R/W ALONG CSX RAILWAY  
 R/W REVISION - UPDATED EXISTING PROPERTY LINES FOR PARCEL NO. 53 & 54.

MATCH LINE SEE SHEET UO-18  
 -L- STA. 217+00.00

MATCH LINE SEE SHEET UO-20  
 -L- STA. 231+00.00



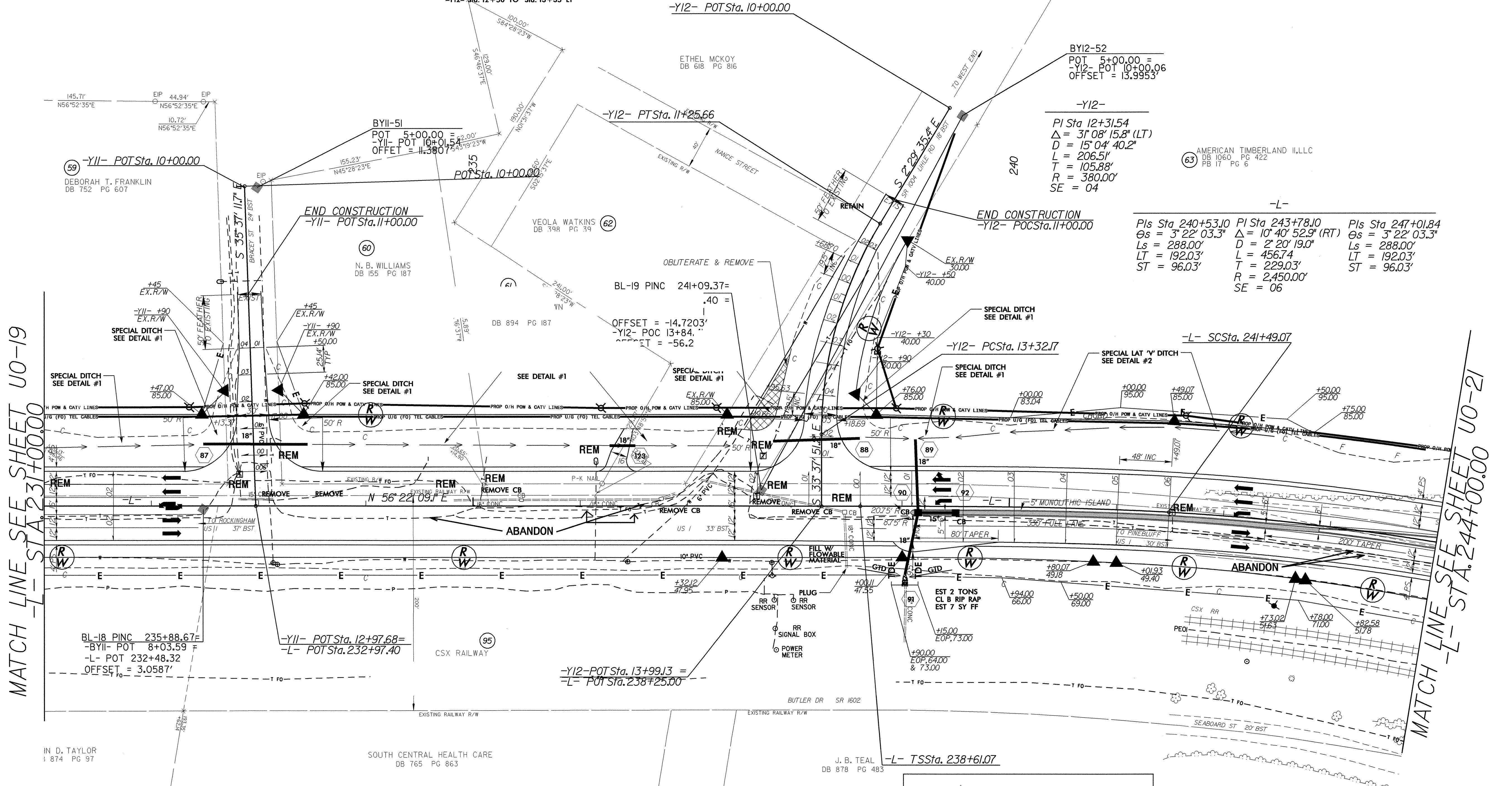
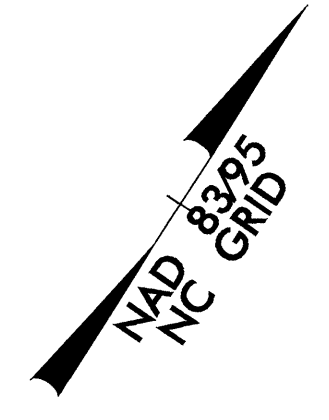
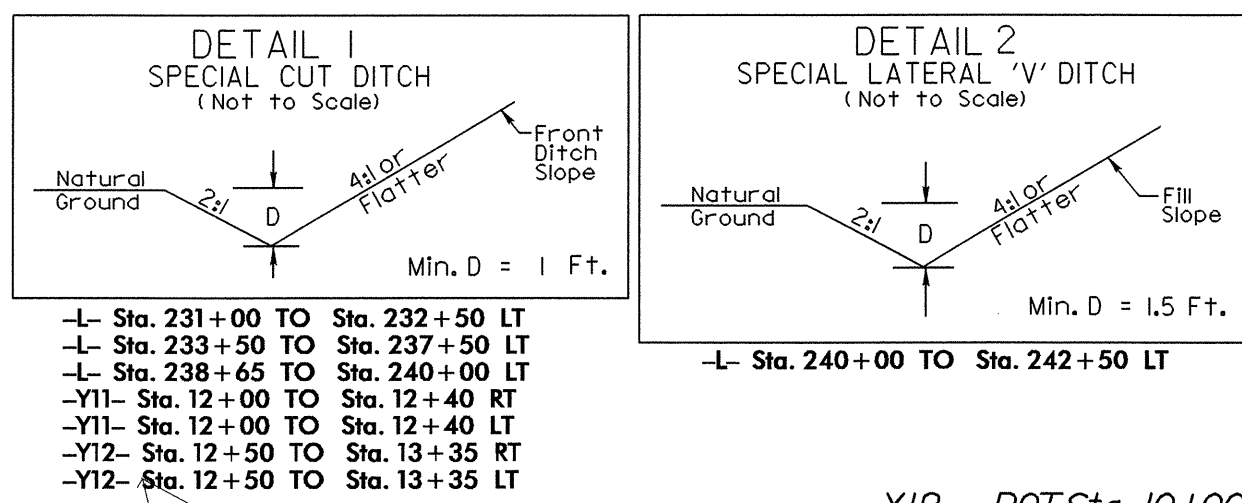
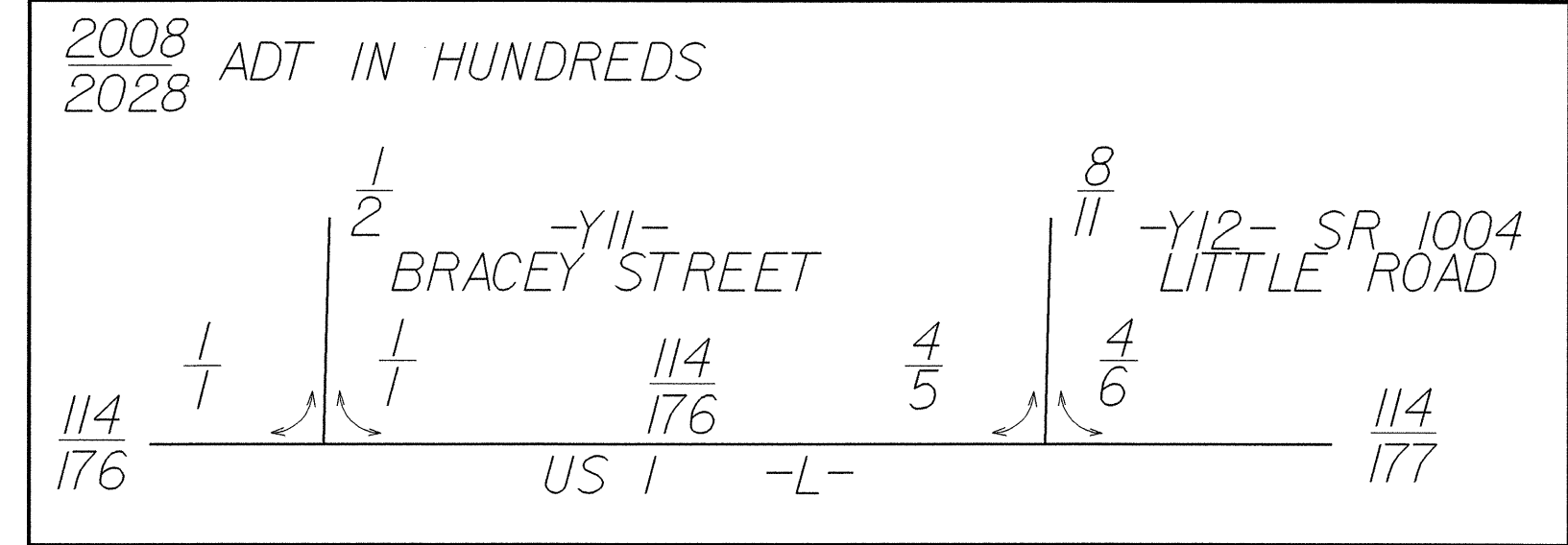
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
 SEE SHEET 34 FOR -L- PROFILE  
 SEE SHEET 39 FOR -Y9- PROFILE  
 SEE SHEET 39 FOR -Y10- PROFILE

SEE SHEET 2-G FOR R/W ALIGNMENT DATA

03-JUN-2008 10:29  
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 5/14/09

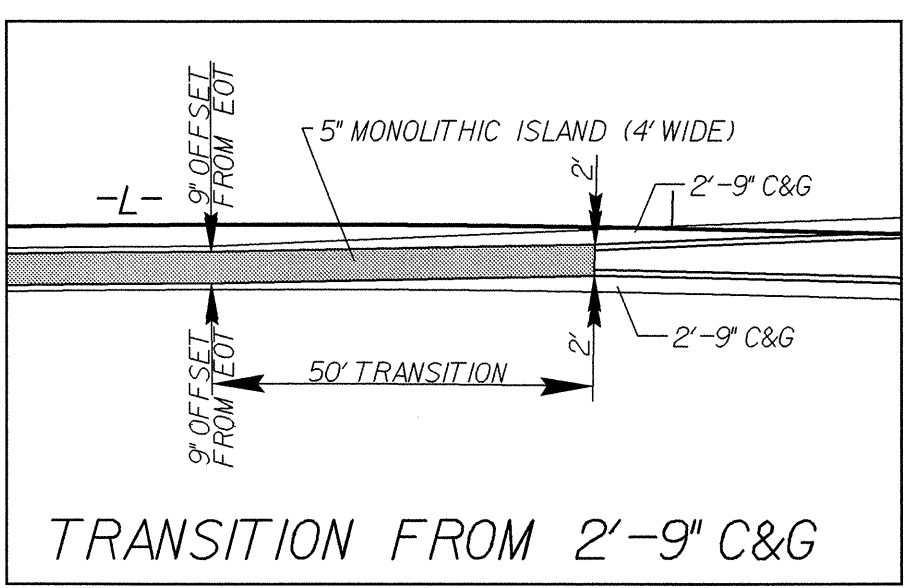
UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET UO-19  
-L- STA. 231+00.00

MATCH LINE SEE SHEET UO-21  
-L- STA. 244+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 35 FOR -L- PROFILE  
SEE SHEET 40 FOR -Y12- PROFILE  
SEE SHEET 40 FOR -Y12- PROFILE  
SEE SHEET 2-H FOR R/W ALIGNMENT DATA

5/14/99

REVISIONS

03-JUN-2008 10:23  
R-2502a-RDY\_psh21\_U020.dgn

IN D. TAYLOR  
1 874 PG 97

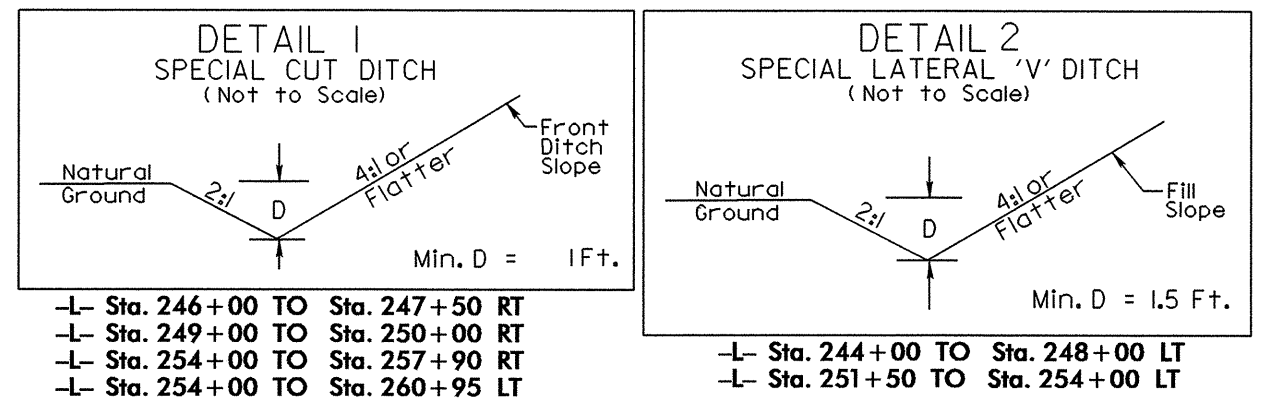
SOUTH CENTRAL HEALTH CARE  
DB 765 PG 863

J. B. TEAL  
DB 878 PG 483

AMERICAN TIMBERLAND II, LLC  
DB 1960 PG 422  
PB 17 PG 6

UTILITIES BY OTHERS

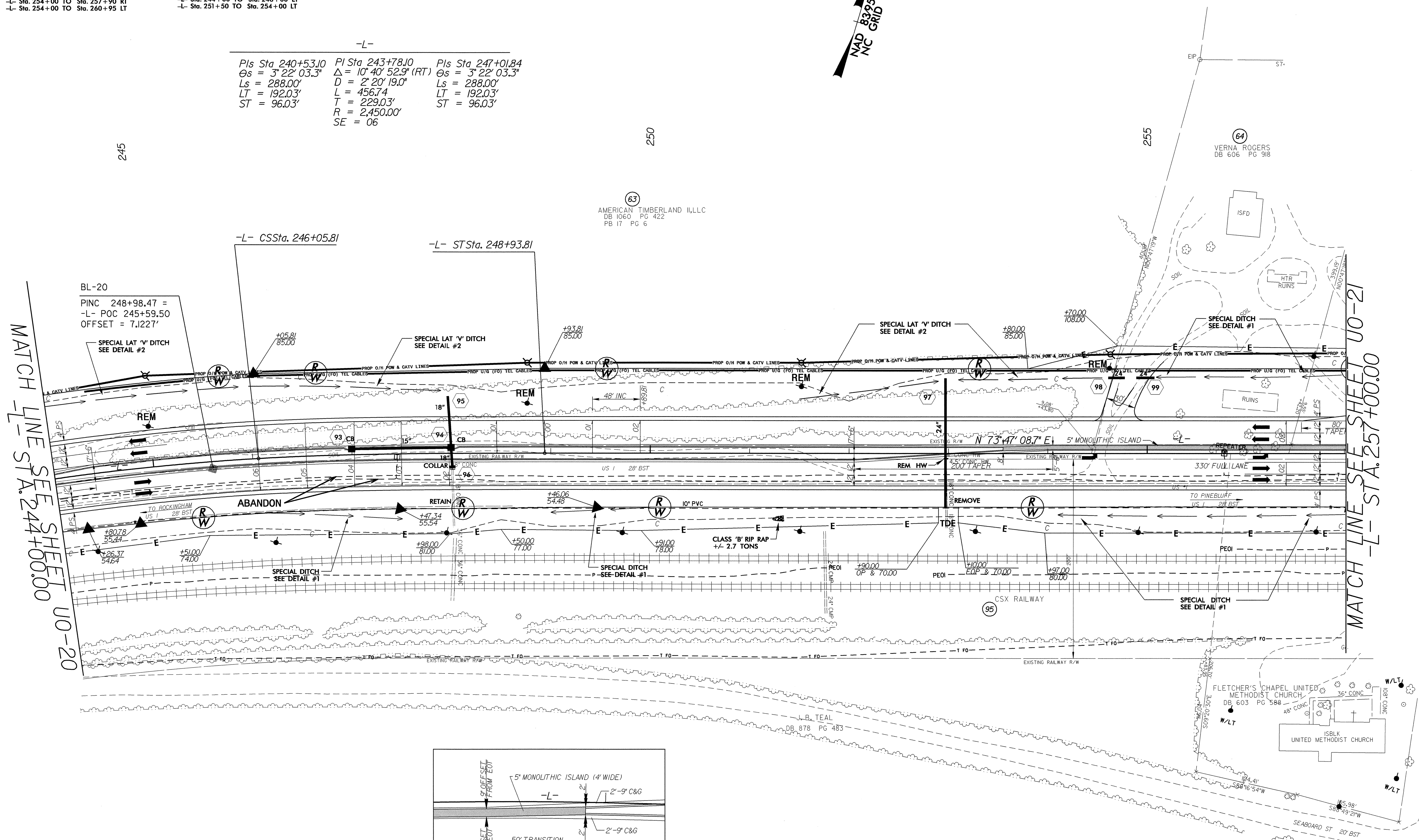
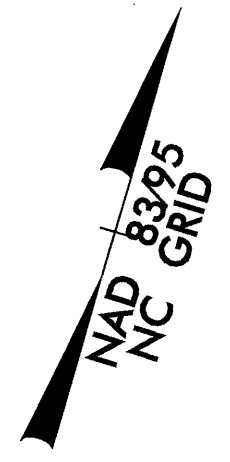
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



-L- Sta. 246+00 TO Sta. 247+50 RT  
-L- Sta. 249+00 TO Sta. 250+00 RT  
-L- Sta. 254+00 TO Sta. 257+90 RT  
-L- Sta. 254+00 TO Sta. 260+95 LT

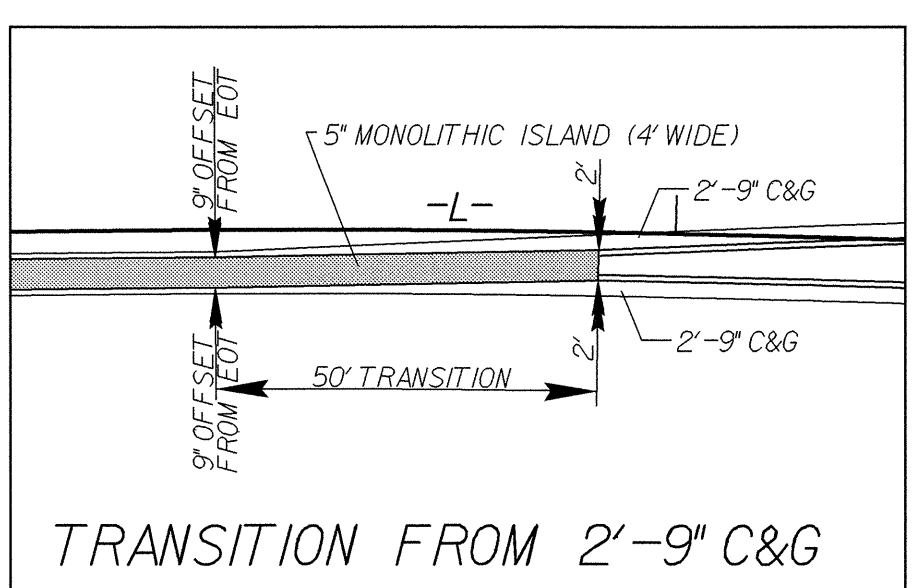
-L- Sta. 244+00 TO Sta. 248+00 LT  
-L- Sta. 251+50 TO Sta. 254+00 LT

-L-  
PIs Sta 240+53.10    PI Sta 243+78.10    PIs Sta 247+01.84  
 $\theta_s = 3^\circ 22' 03.3''$      $\Delta = 10^\circ 40' 52.9''$  (RT)     $\theta_s = 3^\circ 22' 03.3''$   
 $L_s = 288.00'$      $D = 2' 20' 19.0''$      $L_s = 288.00'$   
 $LT = 192.03'$      $L = 456.74'$      $LT = 192.03'$   
 $ST = 96.03'$      $T = 229.03'$      $ST = 96.03'$   
 $R = 2,450.00'$   
 $SE = 06$



MATCH LINE SEE SHEET U0-20  
-L- STA. 244+00.00

MATCH LINE SEE SHEET U0-21  
-L- STA. 257+00.00



SEE SHEET 2-1 FOR R/W ALIGNMENT DATA

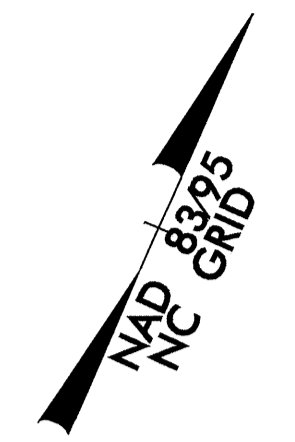
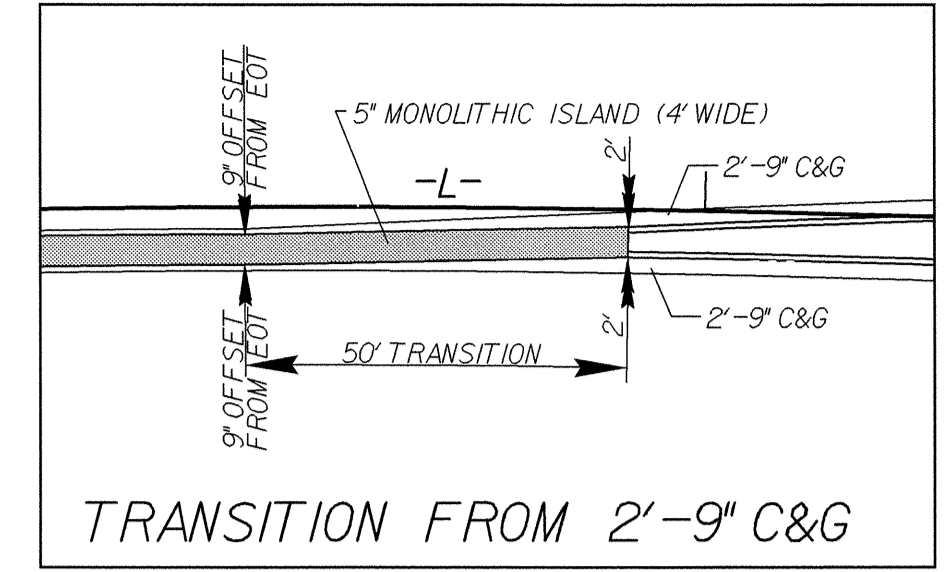
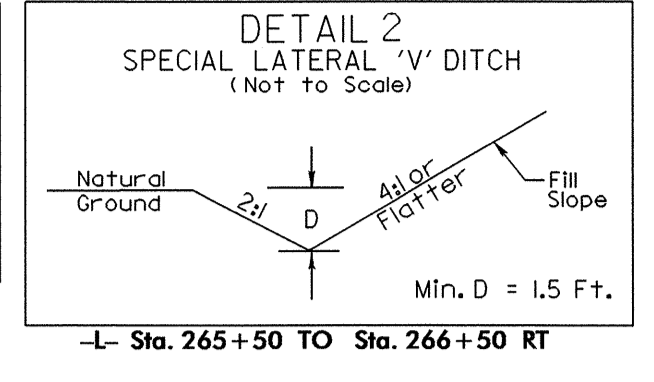
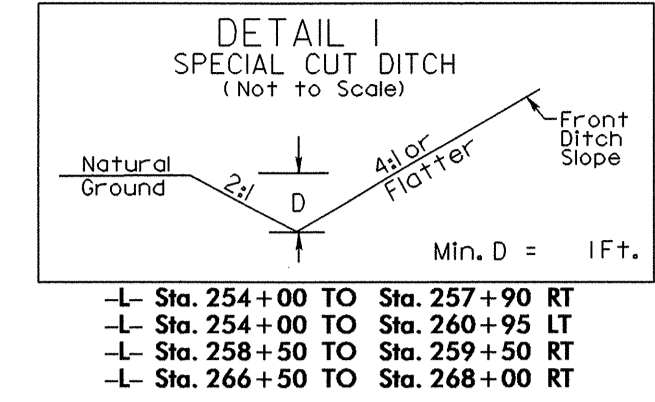
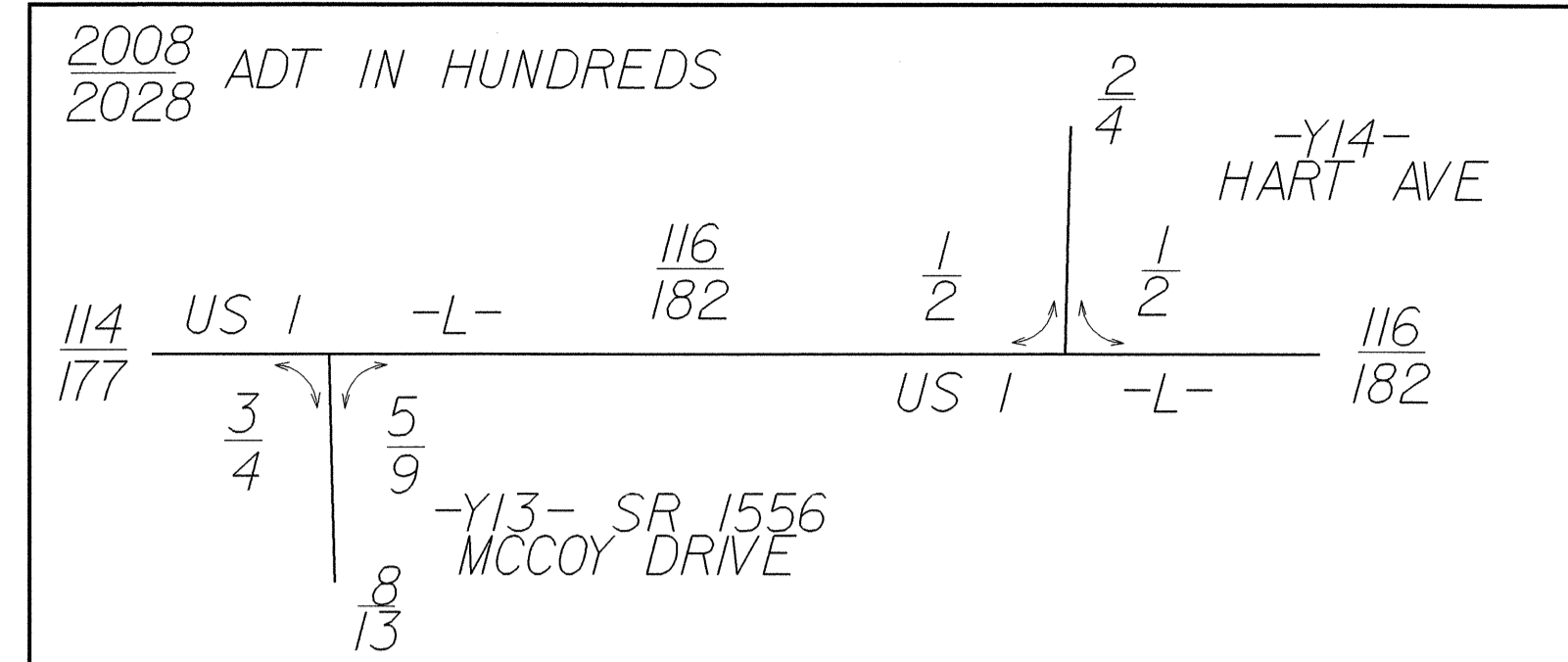
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 35 FOR -L- PROFILE

REVISIONS

5/14/99  
03-JUN-2008 10:28  
c:\projects\25020a\_rdy\_psh\22\_u021.dgn

UTILITIES BY OTHERS

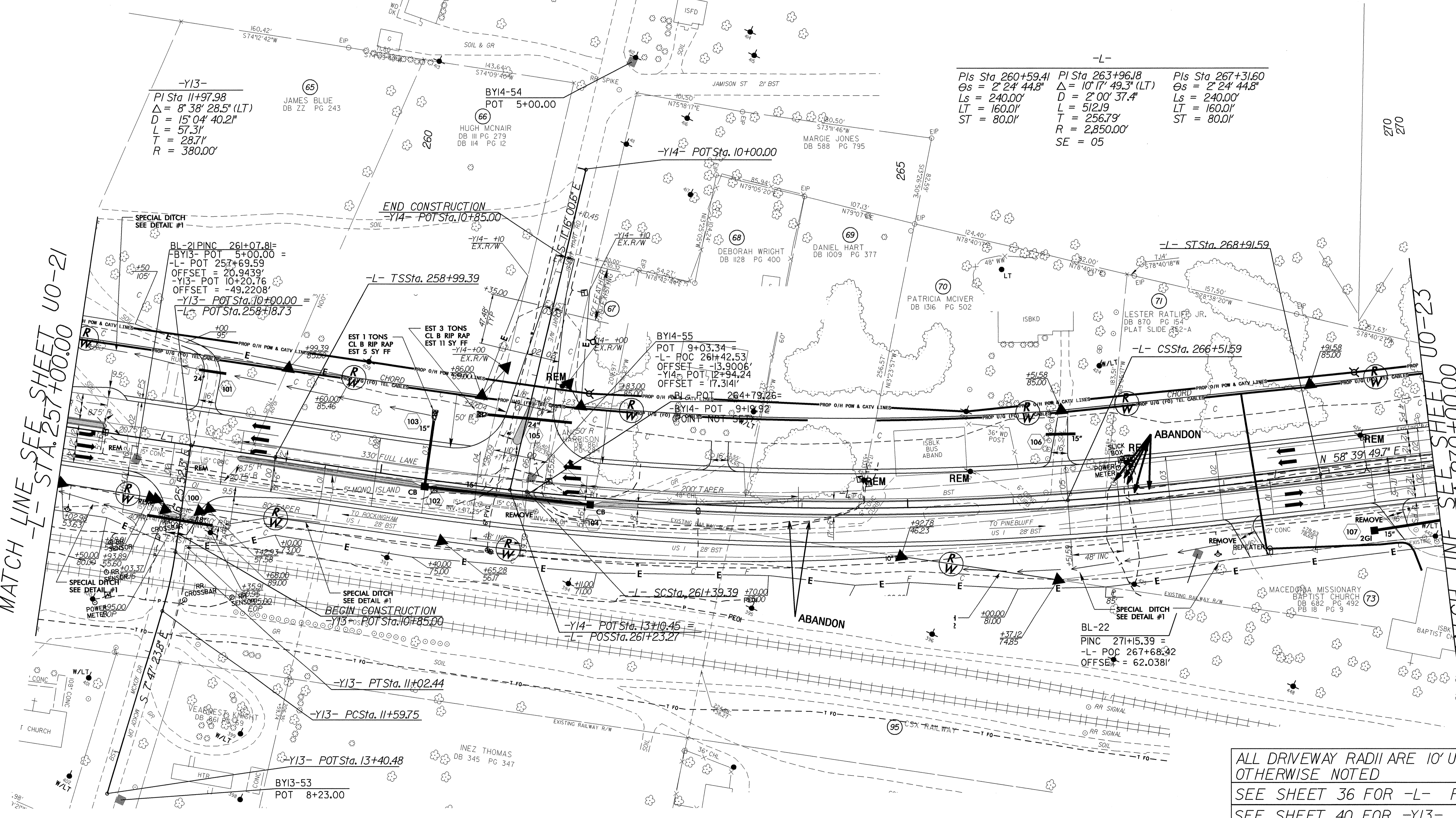
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



Pls Sta 260+59.41	PI Sta 263+96.18	Pls Sta 267+31.60
Os = 2' 24" 44.8"	Δ = 10' 17" 49.3" (LT)	Δ = 2' 24" 44.8"
Ls = 240.00'	D = 2' 00" 37.4"	Ls = 240.00'
LT = 160.01'	L = 512.19	LT = 160.01'
ST = 80.01'	T = 256.79'	ST = 80.01'
	R = 2,850.00'	
	SE = 05	

MATCH LINE SEE SHEET U0-21  
-L- STA. 257+00.00

MATCH LINE SEE SHEET U0-23  
-L- STA. 270+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 36 FOR -L- PROFILE  
SEE SHEET 40 FOR -Y13- PROFILE  
SEE SHEET 40 FOR -Y14- PROFILE

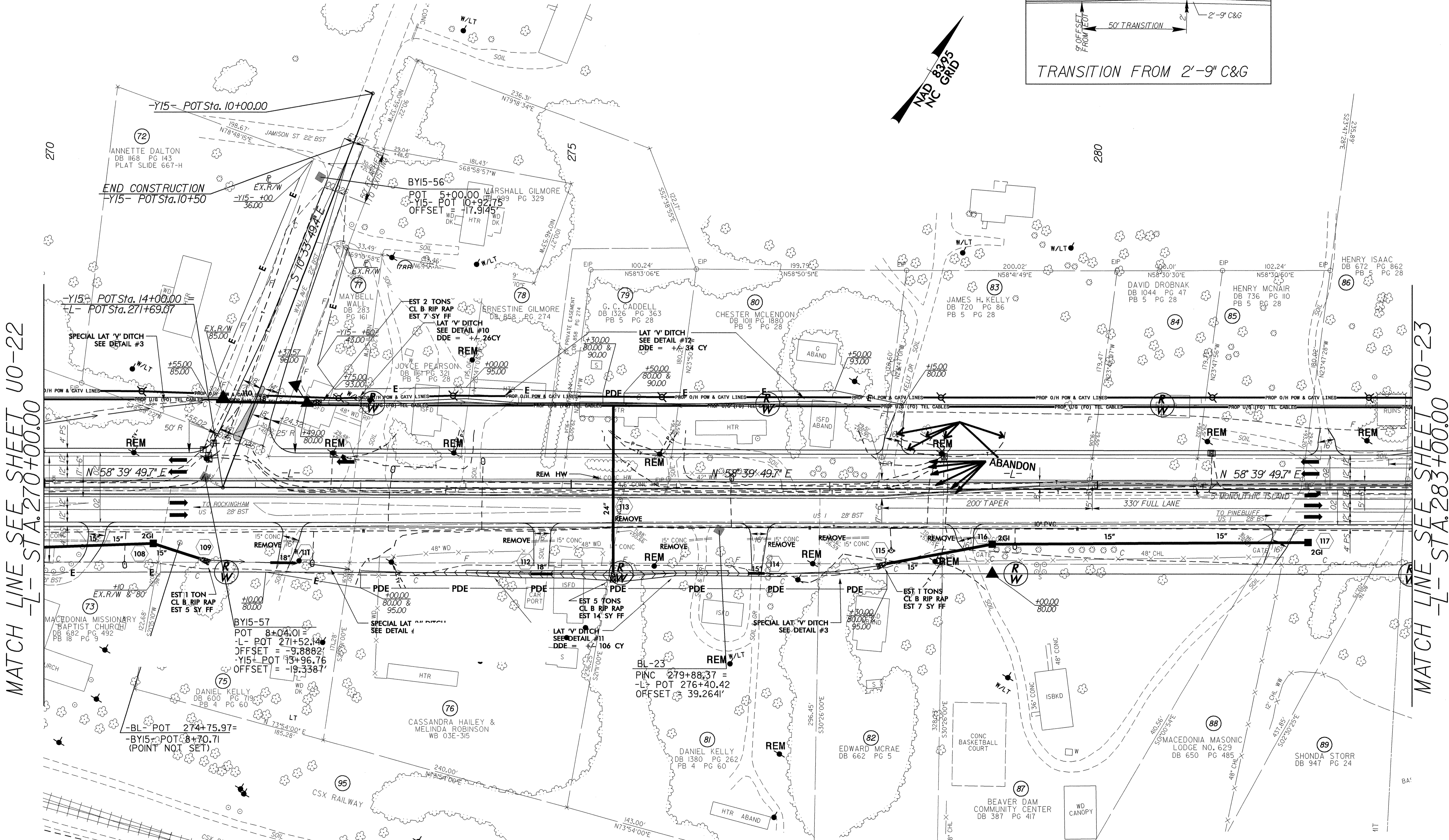
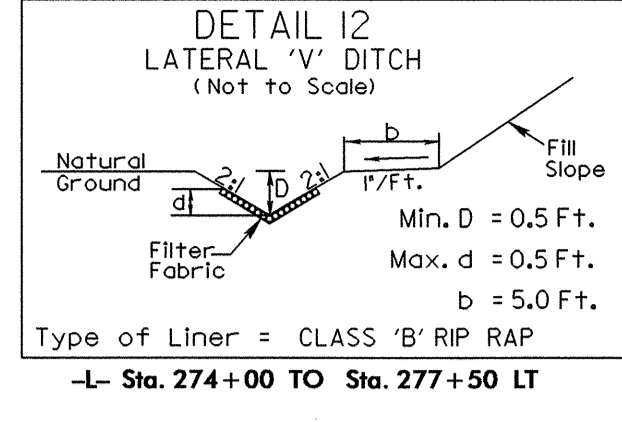
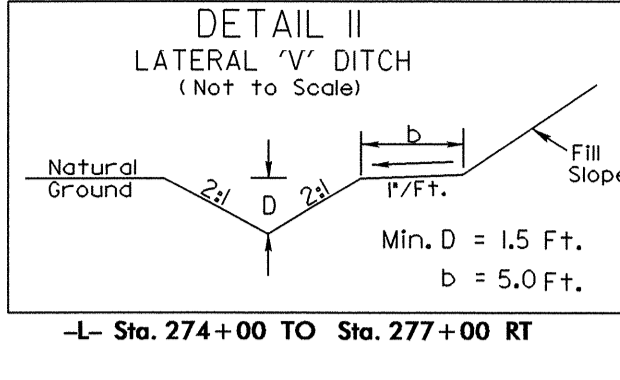
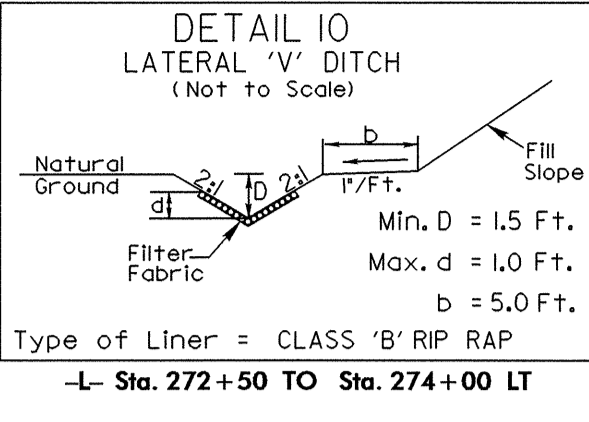
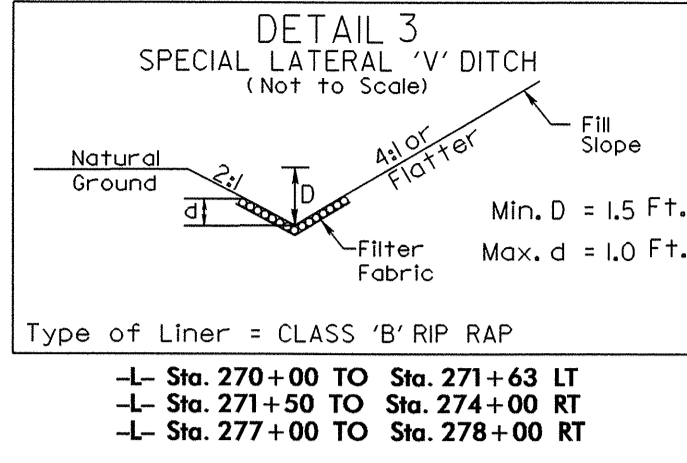
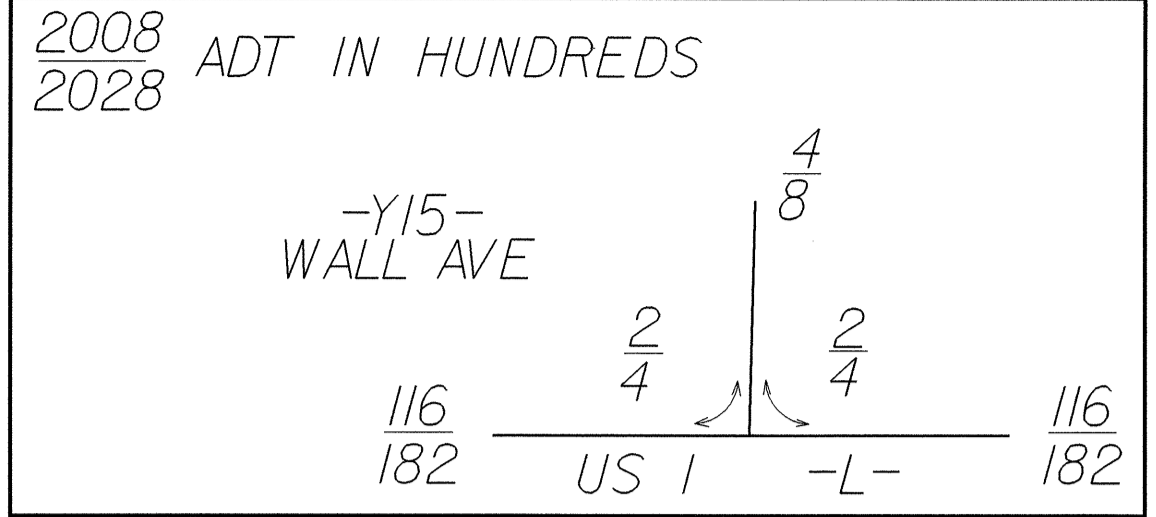
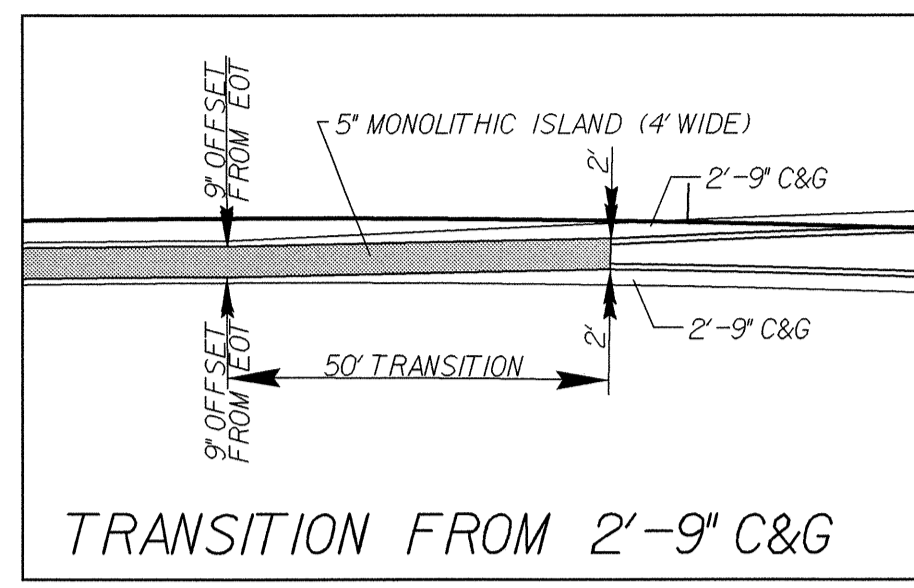
SEE SHEET 2-J FOR R/W ALIGNMENT DATA

REVISIONS

5/14/99  
03-JUN-2008 10:28 \\utl\l\ees\ch\proj\p2502a\_rdy\_pah23\_u022.dgn

UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET UO-22  
-L- STA. 270+00.00

MATCH LINE SEE SHEET UO-23  
-L- STA. 283+00.00

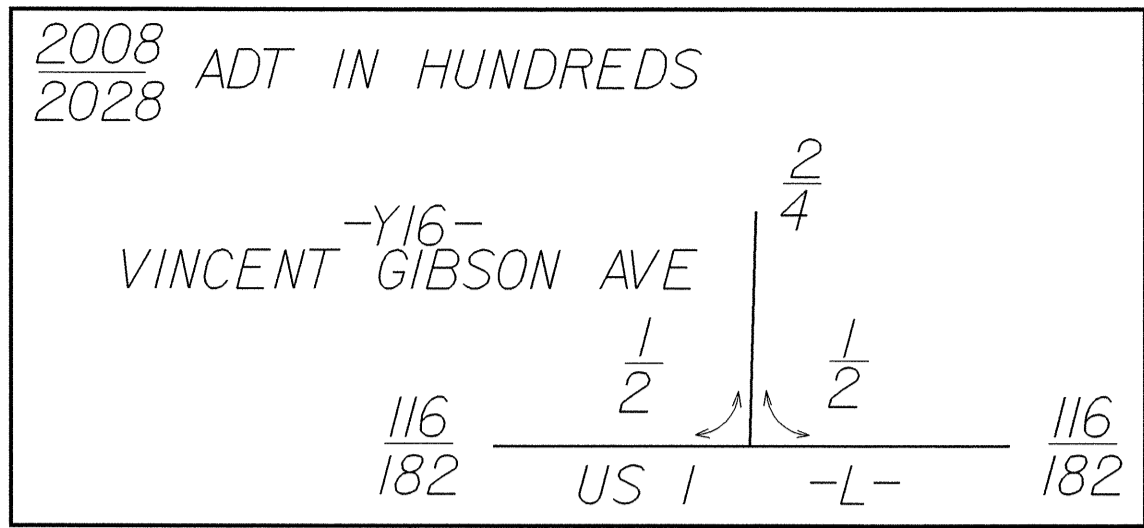
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED  
SEE SHEET 36 FOR -L- PROFILE  
SEE SHEET 40 FOR -Y15- PROFILE

03-JUN-2008 10:27  
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 5/14/09  
 REVISIONS

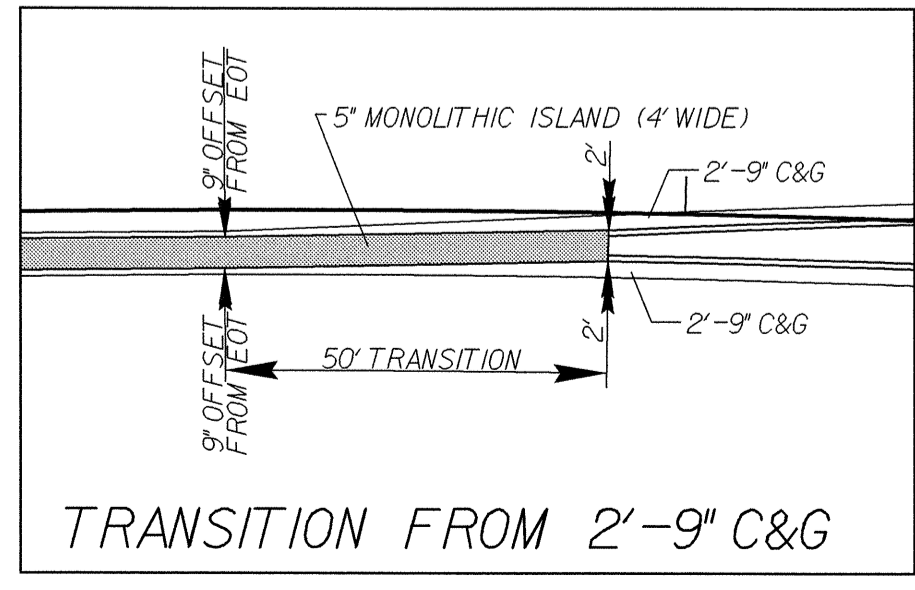
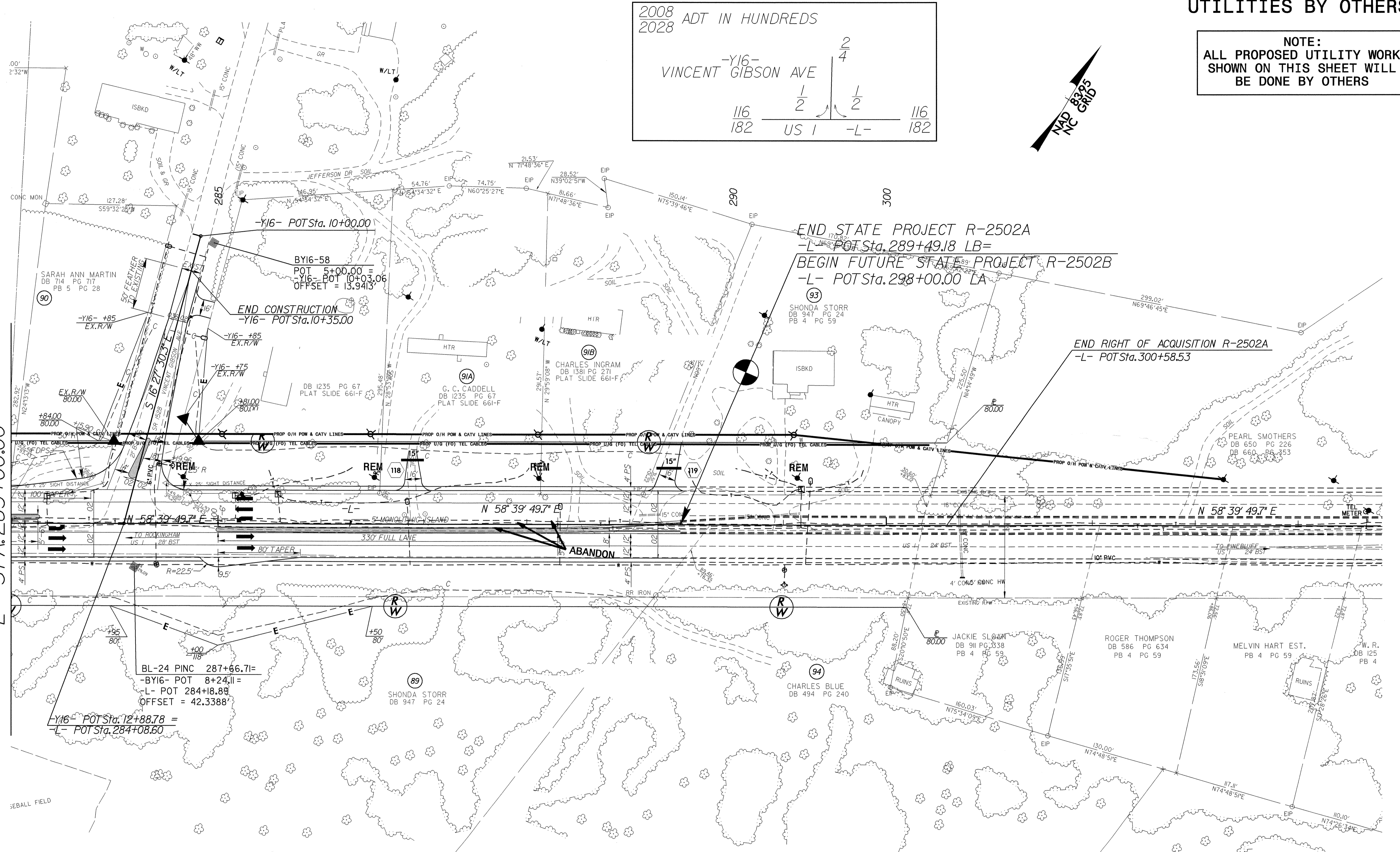


**UTILITIES BY OTHERS**

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



MATCH LINE SEE SHEET U0-23  
-L- STA. 283+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS  
OTHERWISE NOTED  
SEE SHEET 37 FOR -L- PROFILE  
SEE SHEET 40 FOR -Y16- PROFILE

5/14/99

REVISIONS

03-JUN-2008 10:27  
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