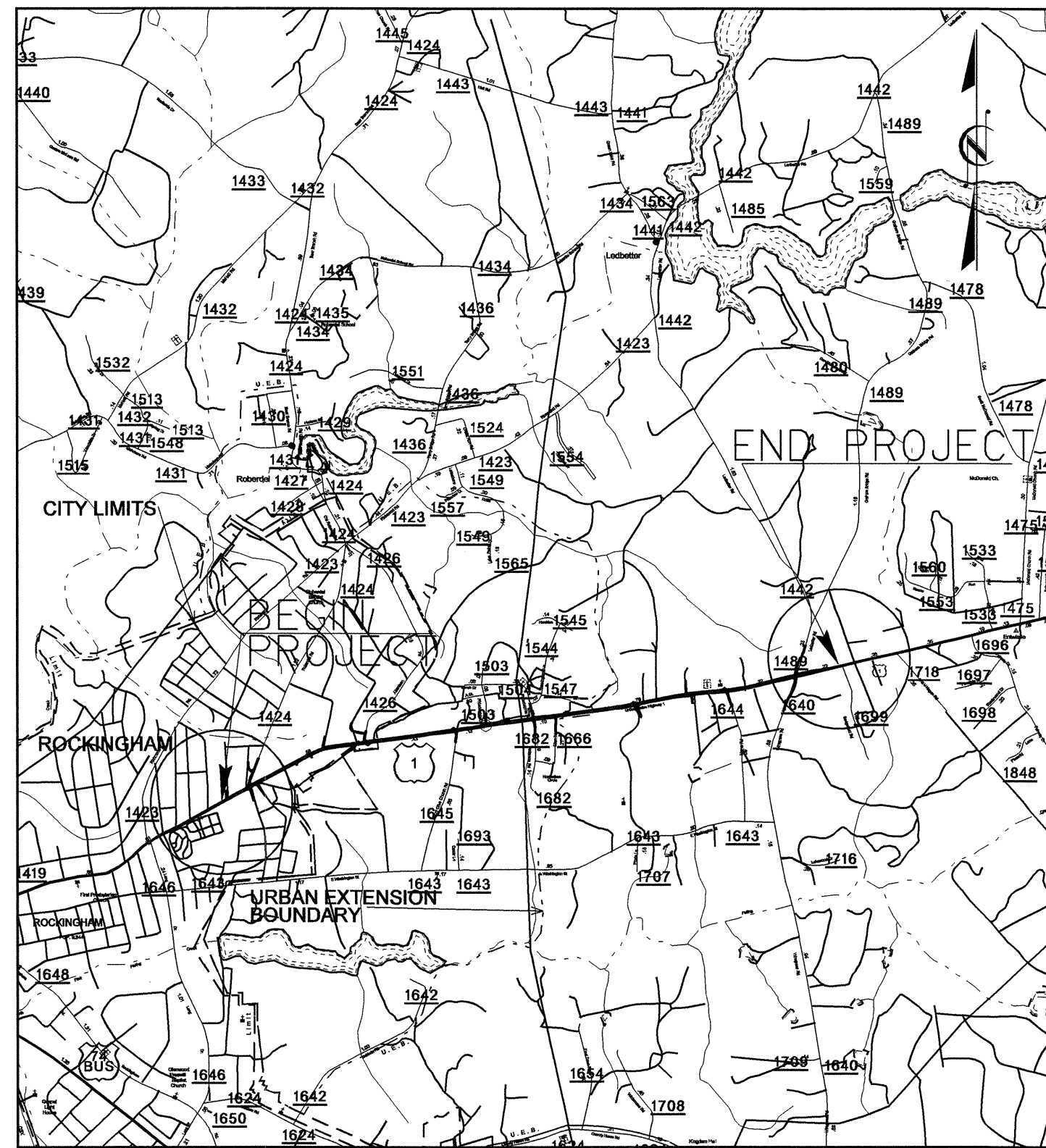


TIP PROJECT: U-3456



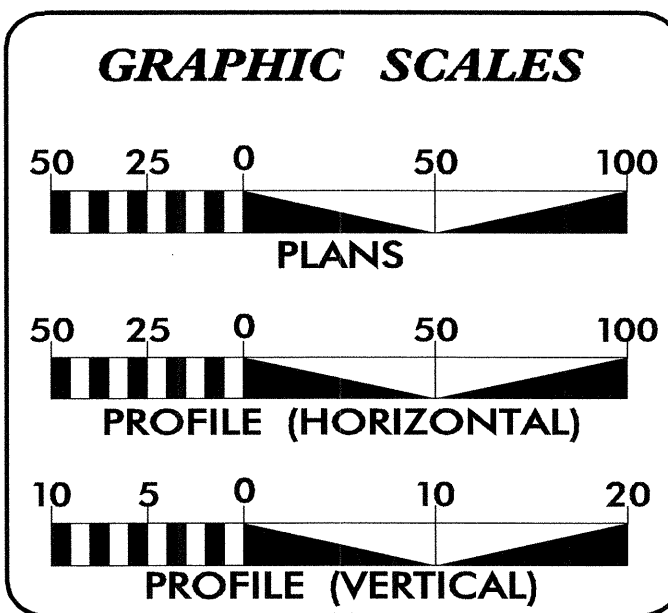
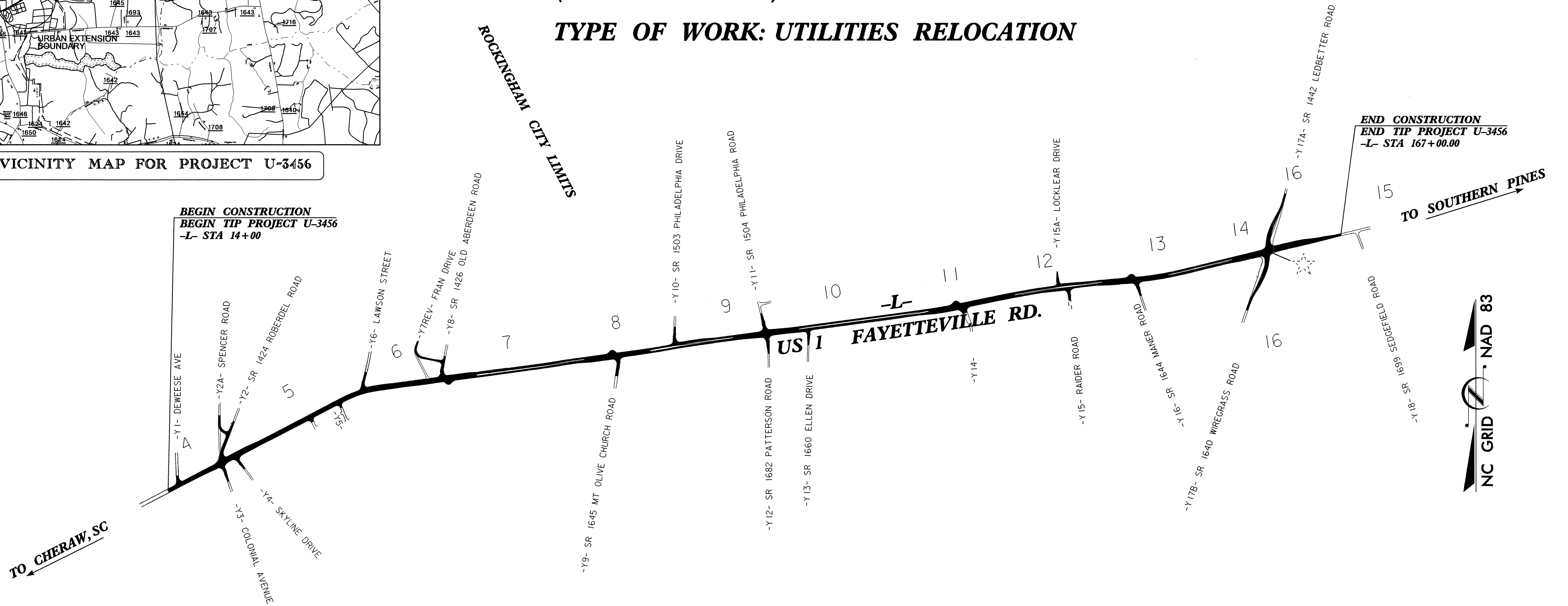
VICINITY MAP FOR PROJECT U-3456

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
RICHMOND COUNTY**

LOCATION: US 1 (FAYETTEVILLE RD.) FROM SR 1424 (ROBERDEL RD.) TO SR 1640 (WIREGRASS RD.) /SR 1442 (LEDBETTER RD.) IN ROCKINGHAM

TYPE OF WORK: UTILITIES RELOCATION



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-14	UTILITY CONSTRUCTION PLAN SHEETS
UC-15	PROFILE AND DETAILS SHEET
UC-16 THRU UC-17	DETAILS SHEETS

WATER AND SEWER OWNERS ON PROJECT

- (1) WATER: CITY OF ROCKINGHAM
- (2) WATER: RICHMOND COUNTY
- (3) SANITARY SEWER: CITY OF ROCKINGHAM



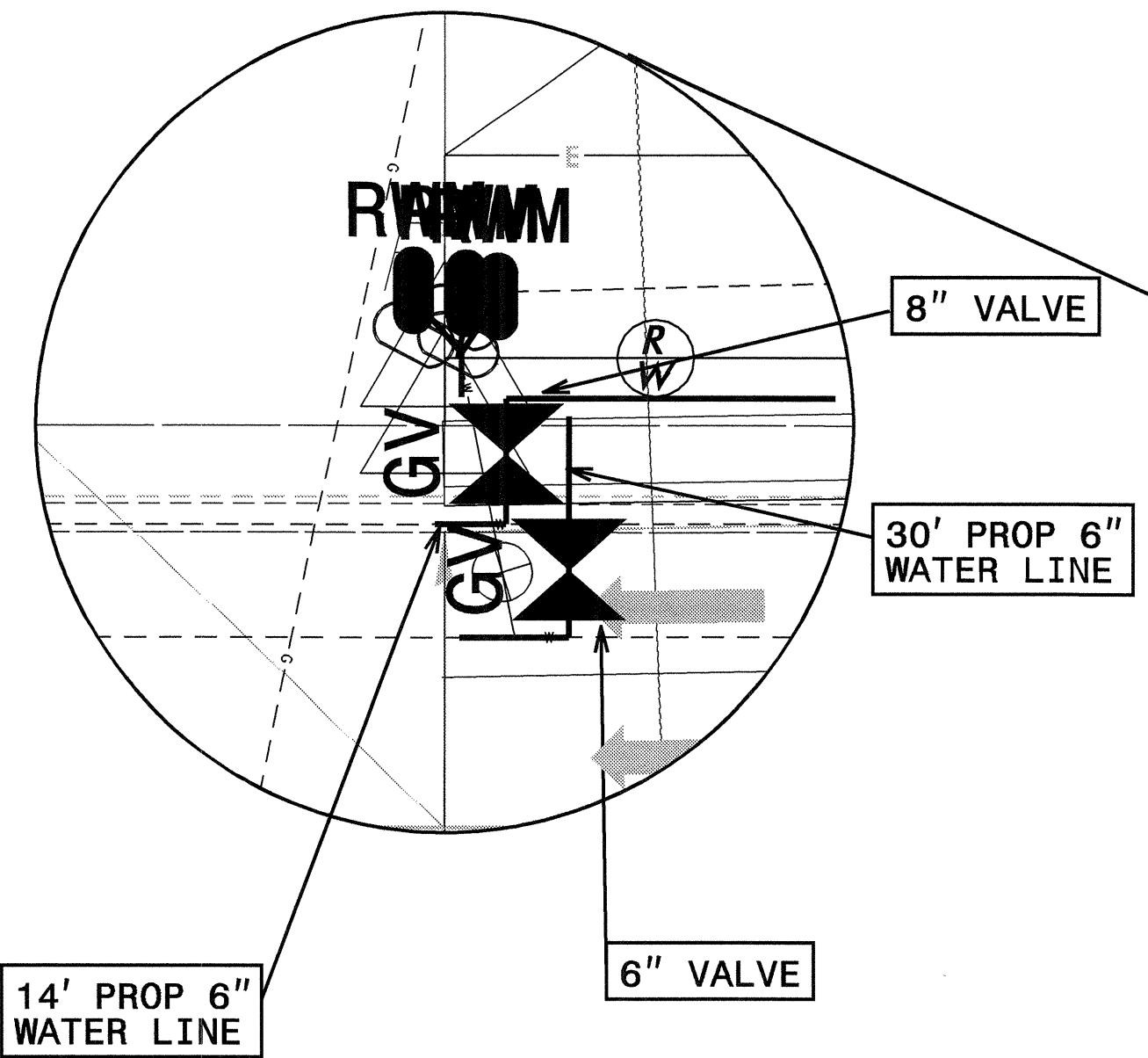
PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITY SECTION**

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

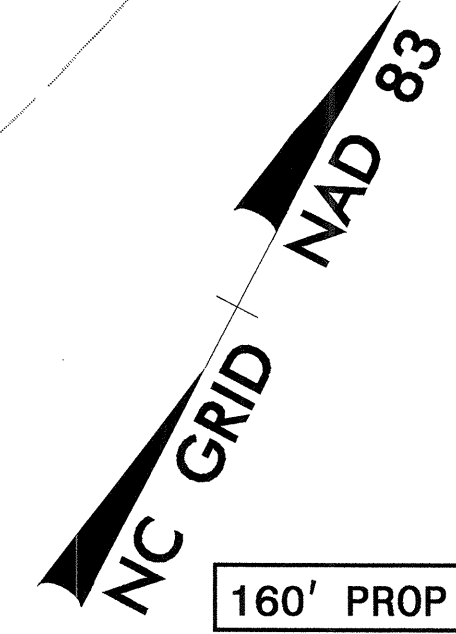
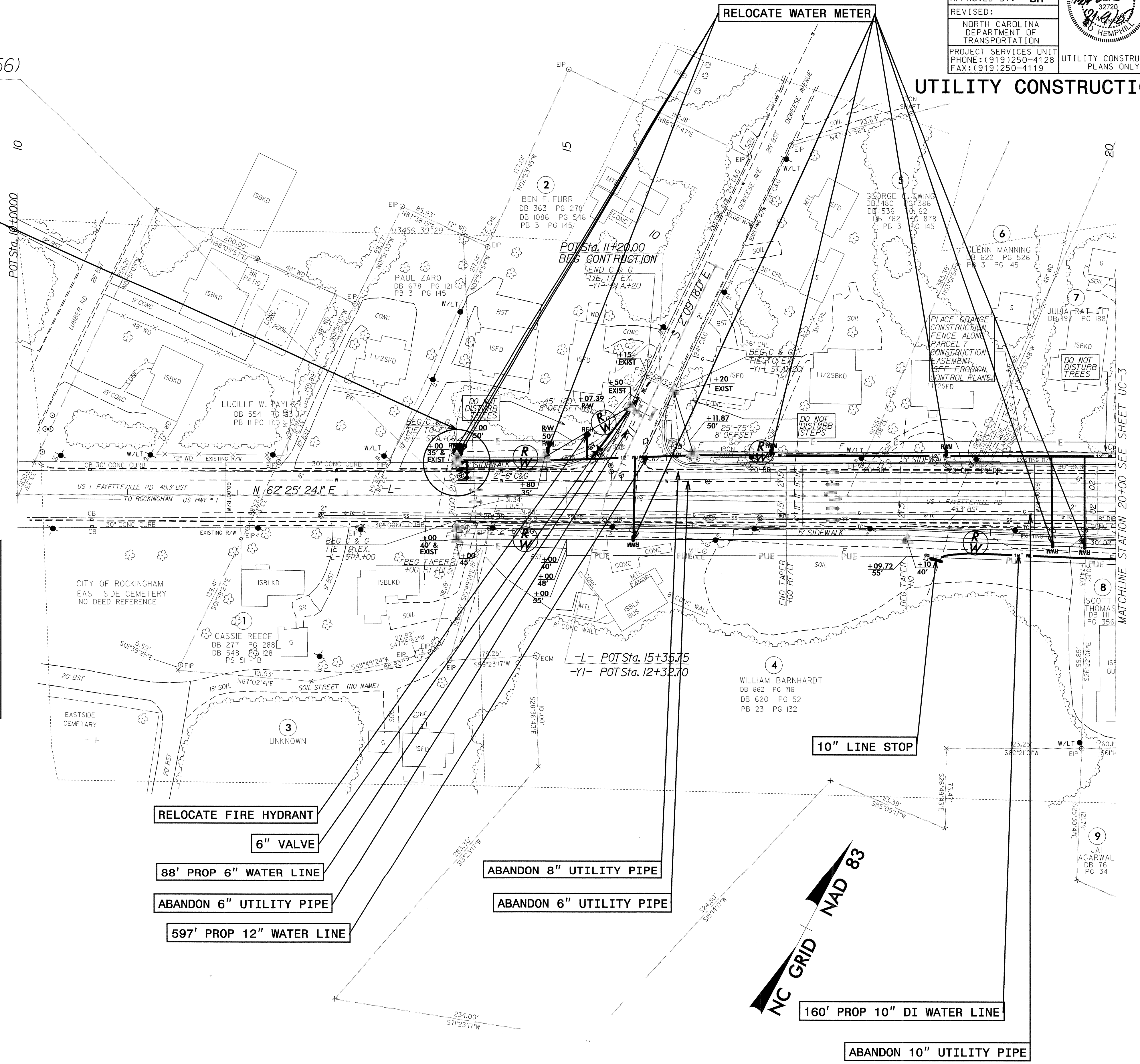
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Bo Hemphill, P.E. UTILITIES PROJECT DESIGNER

UTILITY CONSTRUCTION

BEGIN CONSTRUCTION
 BEGIN STATE PROJECT (U-3456)
 -L- POT STA 14+00



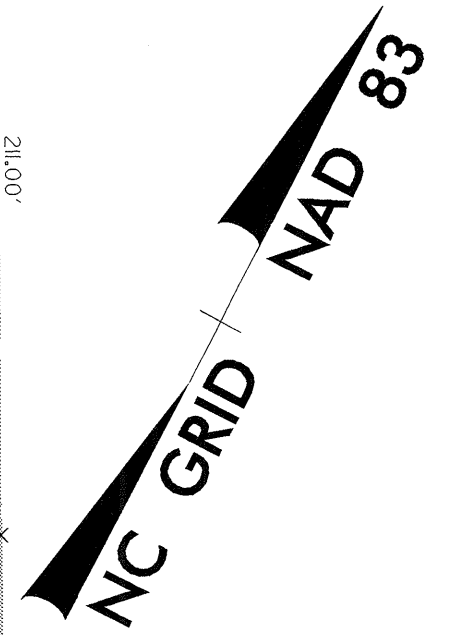
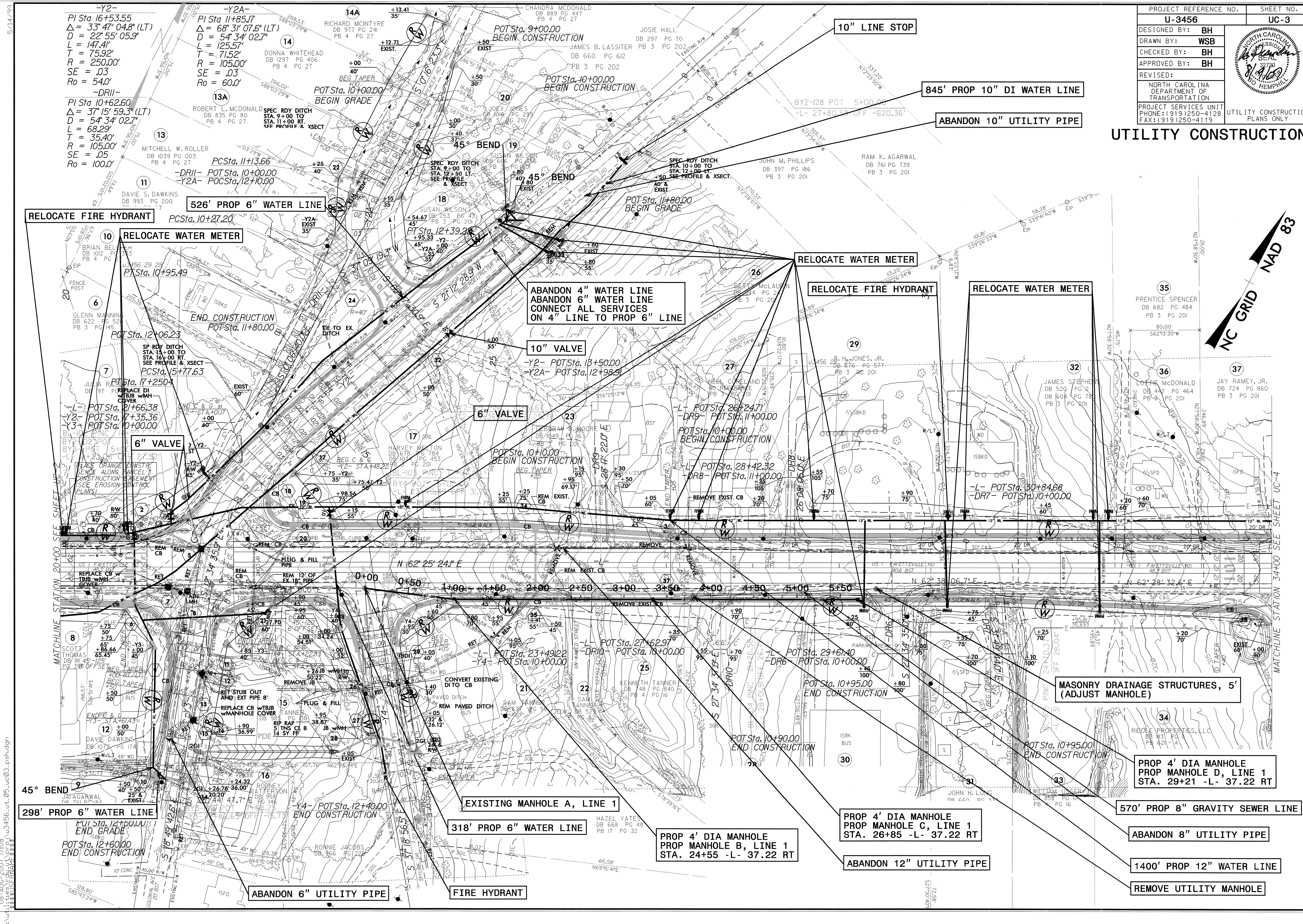
- NOTES:**
- 1) ALL PROPOSED 10" AND 14" WATER LINES SHALL BE DUCTILE IRON.
 - 2) ALL OTHER PROPOSED WATER LINES SHALL BE C900 PC150.
 - 3) THE 10" WATER LINE ALONG -L- AND -Y2- (SHEETS UC-2 AND UC-3) CANNOT BE SHUT DOWN LONGER THAN 4 HOURS. CHANGES IN DIRECTION SHALL BE MADE USING DEFLECTION UNLESS OTHERWISE APPROVED BY THE ENGINEER
 - 4) TRANSITION COUPLINGS ARE REQUIRED WHEN ATTACHING PVC WATER LINES TO EXISTING AC WATER LINES, AND ARE INCIDENTAL TO THE COST OF THE PIPE.



5/14/99
 08-AUG-2007 17:05
 r:\a\11333\PROJECTS\U-3456-ut-04-uc02.psh.dgn
 11333-UT-04-UC02-PLAN-01.dwg

PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-3
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	


UTILITY CONSTRUCTION



08-AUG-2007 17:08
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 5/14/99

MATCHLINE STATION 34+00 SEE SHEET UC-4

MATCHLINE STATION 20+00 SEE SHEET UC-2

PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-4
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

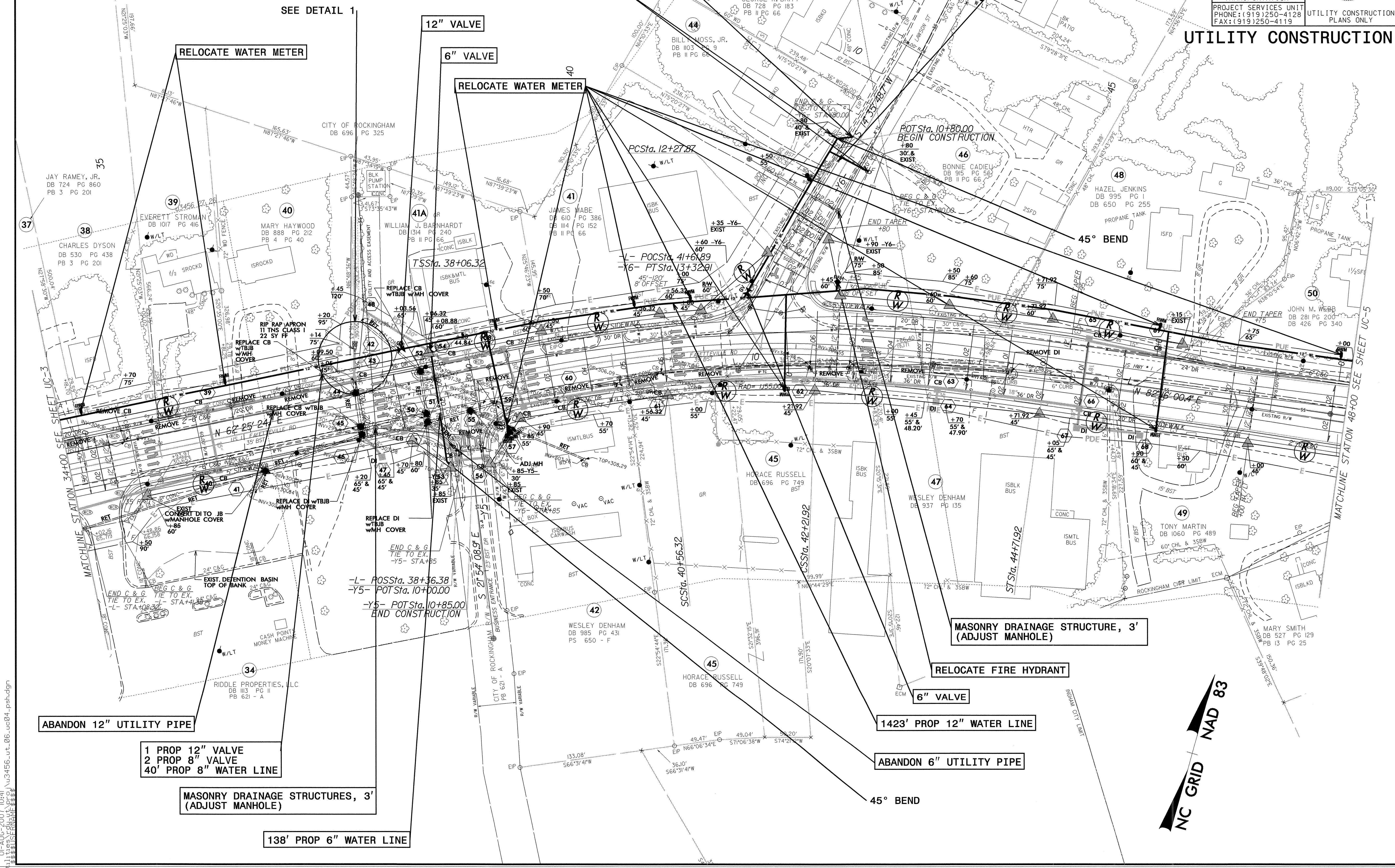
UTILITY CONSTRUCTION

-L-
 Pls Sta 39+73.08
 $\Delta s = 5' 58'' 05.9''$
 $Ls = 250.00'$
 $LT = 166.76'$
 $ST = 83.42'$

-L-
 Pls Sta 41+39.25
 $\Delta = 7' 54'' 24.4''$ (RT)
 $D = 4' 46'' 28.7''$
 $L = 165.60$
 $T = 82.93'$
 $R = 1,200.00'$
 $SE = .06$
 $Ro = 250.00'$

-L-
 Pls Sta 43+05.34
 $\Delta s = 5' 58'' 05.9''$
 $Ls = 250.00'$
 $LT = 166.76'$
 $ST = 83.42'$

-Y6-
 Pls Sta 12+81.7
 $\Delta = 24' 04'' 21.5''$ (LT)
 $D = 22' 55'' 05.9''$
 $L = 105.04'$
 $T = 53.30'$
 $R = 250.00'$
 $SE = .03$
 $Ro = 60.00'$



ABANDON 12" UTILITY PIPE

1 PROP 12" VALVE
2 PROP 8" VALVE
40' PROP 8" WATER LINE

MASONRY DRAINAGE STRUCTURES, 3'
(ADJUST MANHOLE)

138' PROP 6" WATER LINE

217' PROP 6" WATER LINE

RECONNECT WATER METER

12" VALVE

6" VALVE

RELOCATE WATER METER

ABANDON 6" UTILITY PIPE

MASONRY DRAINAGE STRUCTURE, 3'
(ADJUST MANHOLE)

RELOCATE FIRE HYDRANT

6" VALVE


1423' PROP 12" WATER LINE

ABANDON 6" UTILITY PIPE

45° BEND



5/14/99
 01-AUG-2007 10:41
 F:\utility\3456-ut_06_uc04_psh.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-6
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

$PI\ Sta\ 64+92.63$ $PI\ Sta\ 67+75.48$
 $\Delta = 1^{\circ}37'14.2''(LT)$ $\Delta = 1^{\circ}37'14.2''(RT)$
 $D = 0^{\circ}34'22.6''$ $D = 0^{\circ}34'22.6''$
 $L = 282.85'$ $L = 282.85'$
 $T = 141.44'$ $T = 141.44'$
 $R = 10,000.00'$ $R = 10,000.00'$
 $SE = NC$ $SE = NC$

SEE DETAIL 2

10" VALVE

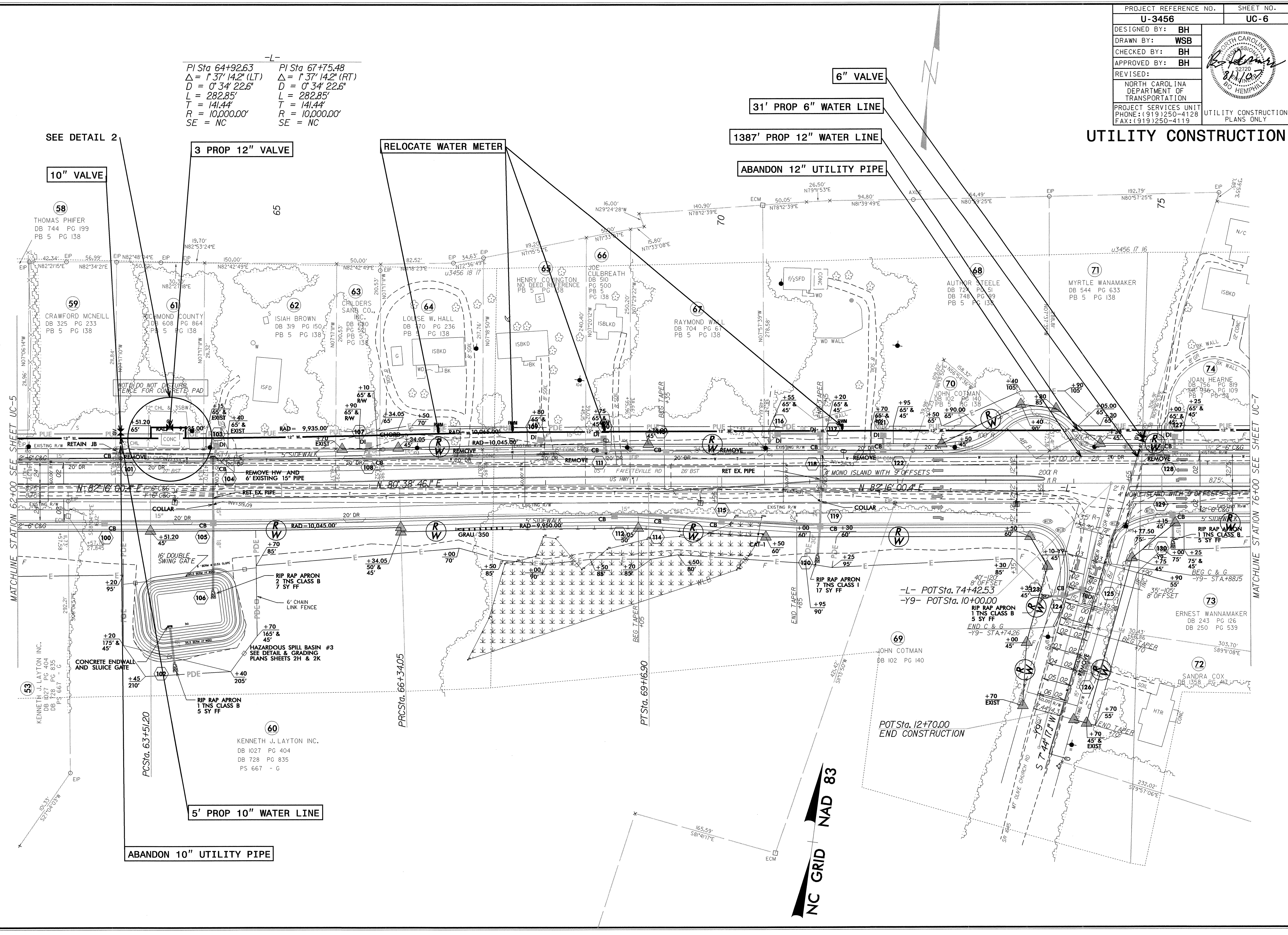
3 PROP 12" VALVE

RELOCATE WATER METER

31' PROP 6" WATER LINE

1387' PROP 12" WATER LINE

ABANDON 12" UTILITY PIPE



MATCHLINE STATION 62+00 SEE SHEET UC-5

MATCHLINE STATION 76+00 SEE SHEET UC-7

30-JUL-2007 15:36
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B. H. WSB

NC GRID NAD 83

ABANDON 10" UTILITY PIPE

5' PROP 10" WATER LINE

-L- POT Sta. 74+42.53
 -Y9- POT Sta. 10+00.00
 RIP RAP APRON
 1 TNS CLASS B
 5 SY FF
 END C & G
 -Y9- STA+74.26
 +00
 45'

KENNETH J. LAYTON INC.
 DB 1027 PG 404
 DB 728 PG 835
 PS 667 - G

PCS Sta. 63+51.20
 +45
 210'

CONCRETE ENDWALL
 AND SLUICE GATE

16" DOUBLE
 SWING GATE

NOTE: DO NOT DISTURB
 FENCE FOR CONCRETE PAD

58
 THOMAS PHIFER
 DB 744 PG 199
 PB 5 PG 138

59
 CRAWFORD MCNEILL
 DB 325 PG 233
 PB 5 PG 138

61
 RICHMOND COUNTY
 DB 608 PG 864
 PB 5 PG 138

62
 ISIAH BROWN
 DB 319 PG 150
 PB 5 PG 138

63
 CHILDERS SANB CO.,
 DB 680 PG 541
 PB 5 PG 138

64
 LOUISE W. HALL
 DB 70 PG 236
 PB 5 PG 138

65
 HENRY COXINGTON
 NO DEED REFERENCE

66
 JOE CULBREATH
 DB 510 PG 500
 PG 5 PG 138

67
 RAYMOND WALL
 DB 704 PG 67
 PB 5 PG 138

68
 AUTHOR STEELE
 DB 724 PG 51
 DB 748 PG 89
 PB 5 PG 138

70
 JOHN COTMAN
 DB 102 PG 140
 PB 5 PG 138

71
 MYRTLE WANAMAKER
 DB 544 PG 633
 PB 5 PG 138

72
 SANDRA COX
 DB 1358 PG 412

73
 ERNEST WANAMAKER
 DB 243 PG 126
 DB 250 PG 539

74
 JOAN HEARNE
 DB 156 PG 89
 DB 136 PG 109
 PB 7 PG 33

75
 N/C

76
 ISBKD

77
 ISBKD

78
 ISBKD

79
 ISBKD

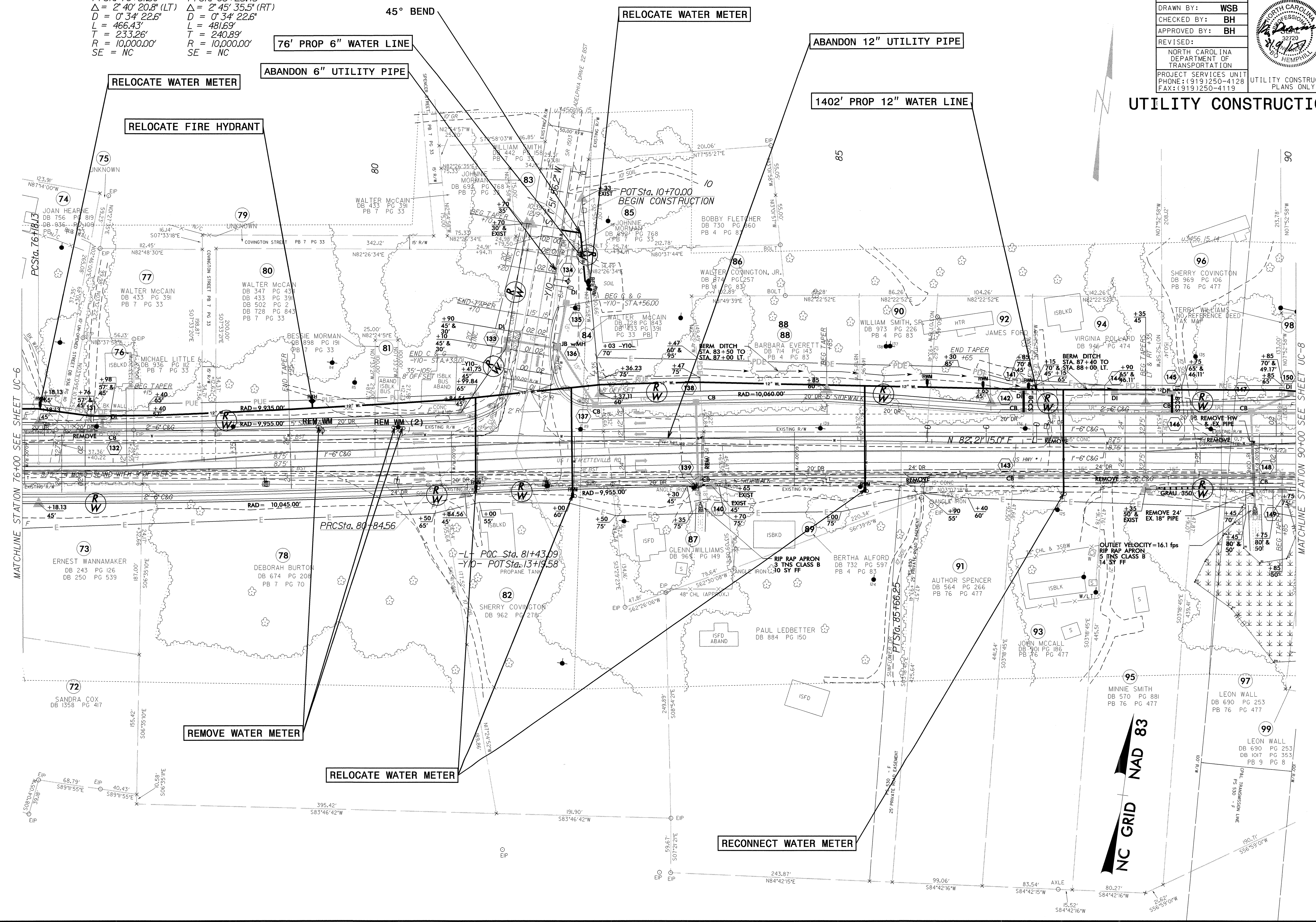
PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-7
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

5/14/99

$\Delta = 2^\circ 40' 20.8" (LT)$
 $D = 0^\circ 34' 22.6"$
 $L = 466.43'$
 $T = 233.26'$
 $R = 10,000.00'$
 $SE = NC$

$\Delta = 2^\circ 45' 35.5" (RT)$
 $D = 0^\circ 34' 22.6"$
 $L = 481.69'$
 $T = 240.89'$
 $R = 10,000.00'$
 $SE = NC$



MATCHLINE STATION 76+00 SEE SHEET UC-6

MATCHLINE STATION 90+00 SEE SHEET UC-8

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NC GRID NAD 83

PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-9
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

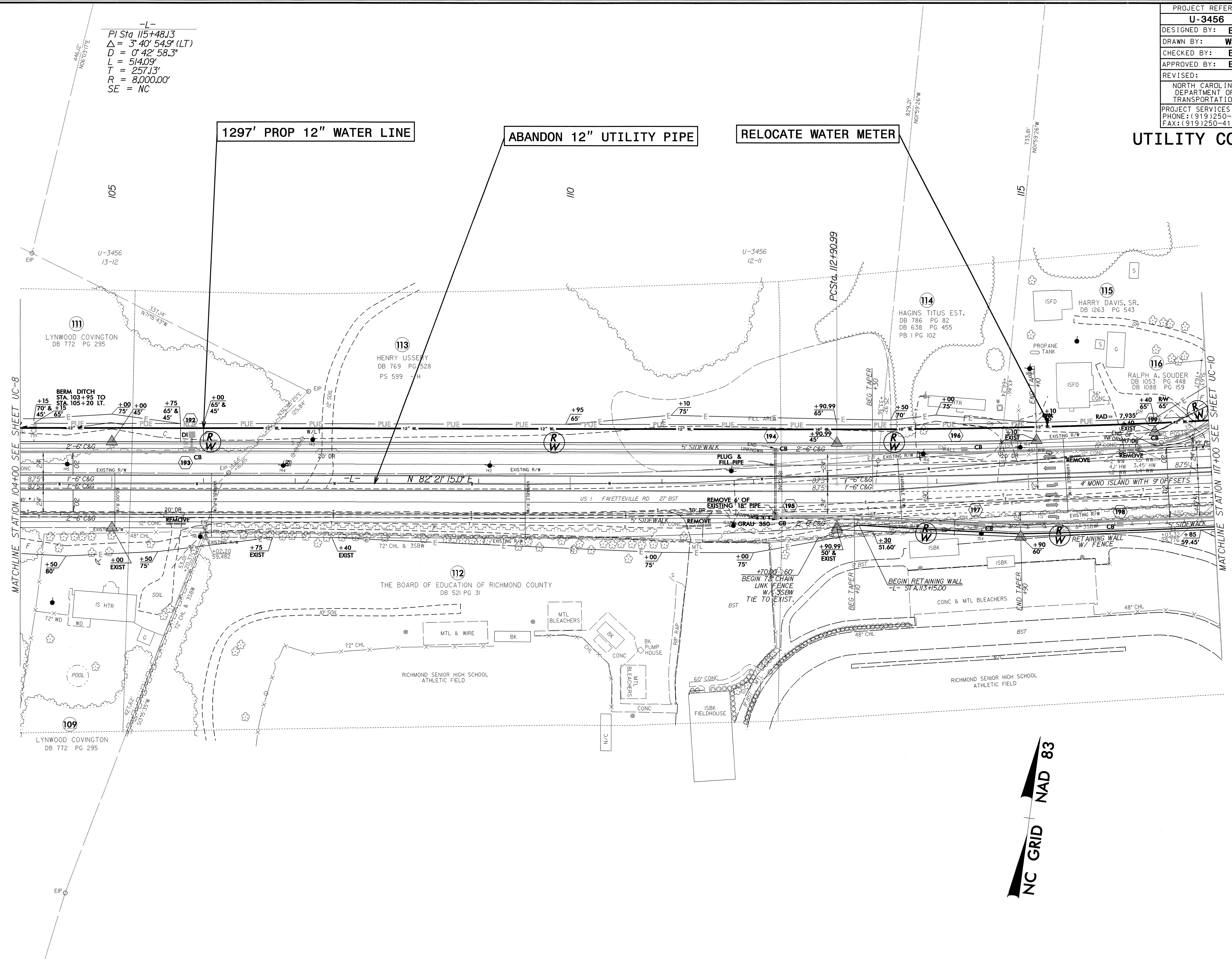
UTILITY CONSTRUCTION

-L-
 PI Sta 115+48.13
 $\Delta = 3^{\circ} 40' 54.9''$ (LT)
 $D = 0^{\circ} 42' 58.3''$
 $L = 514.09'$
 $T = 257.13'$
 $R = 8,000.00'$
 SE = NC

1297' PROP 12" WATER LINE

ABANDON 12" UTILITY PIPE

RELOCATE WATER METER



MATCHLINE STATION 104+00 SEE SHEET UC-8

MATCHLINE STATION 117+00 SEE SHEET UC-10

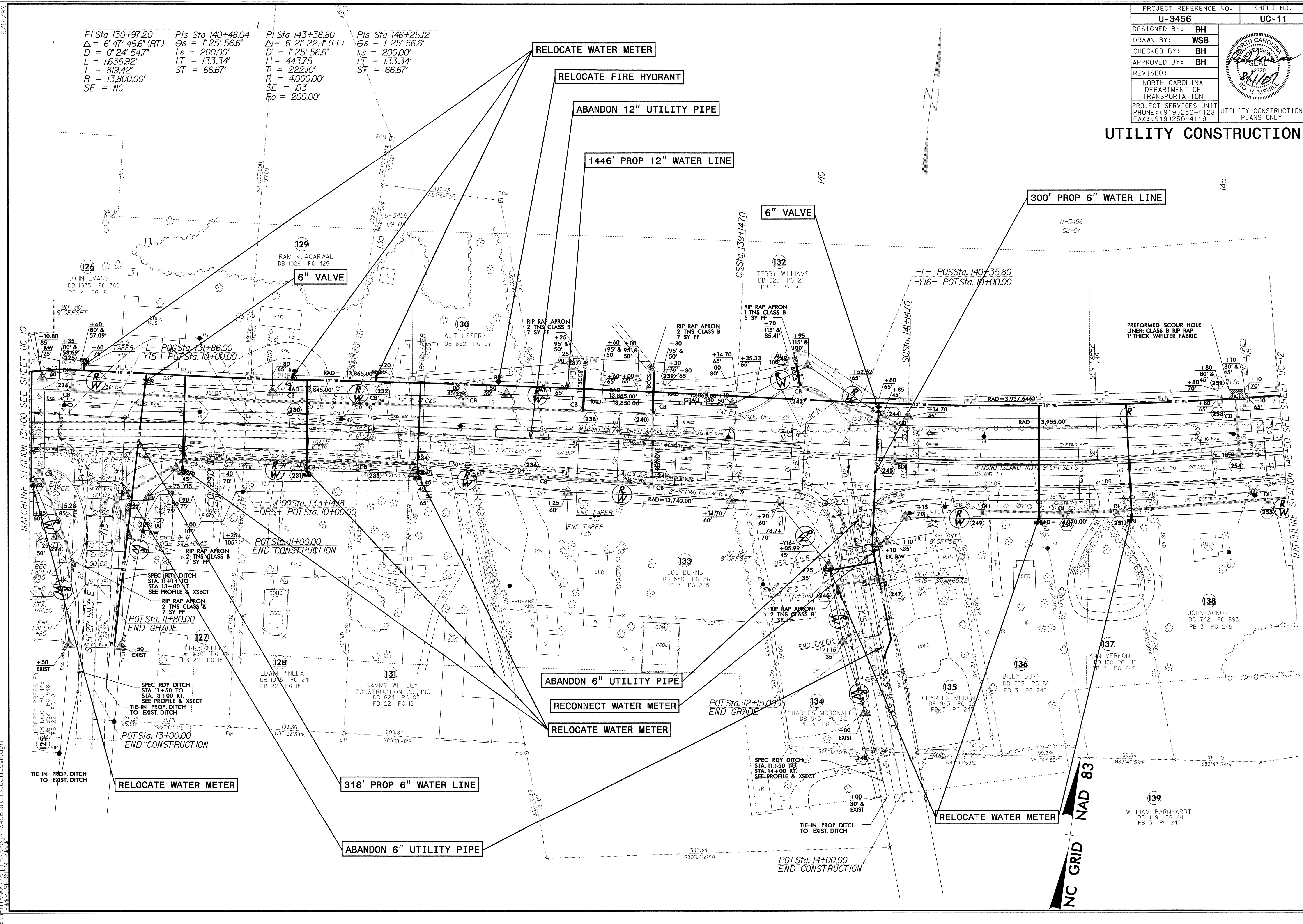
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PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-11
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

PI Sta 130+97.20 $\Delta = 6' 47'' 46.6'' (RT)$ $D = 0' 24' 54.7''$ $L = 1,636.92'$ $T = 819.42'$ $R = 13,800.00'$ $SE = NC$	Pls Sta 140+48.04 $\Theta_s = 1' 25' 56.6''$ $L_s = 200.00'$ $LT = 133.34'$ $ST = 66.67'$	-L- PI Sta 143+36.80 $\Delta = 6' 21' 22.4'' (LT)$ $D = 1' 25' 56.6''$ $L = 443.75'$ $T = 222.10'$ $R = 4,000.00'$ $SE = .03$ $R_o = 200.00'$	Pls Sta 146+25.12 $\Theta_s = 1' 25' 56.6''$ $L_s = 200.00'$ $LT = 133.34'$ $ST = 66.67'$
--	---	--	---




MATCHLINE STATION 131+00 SEE SHEET UC-10

MATCHLINE STATION 145+50 SEE SHEET UC-12

31-JUL-2007 09:31
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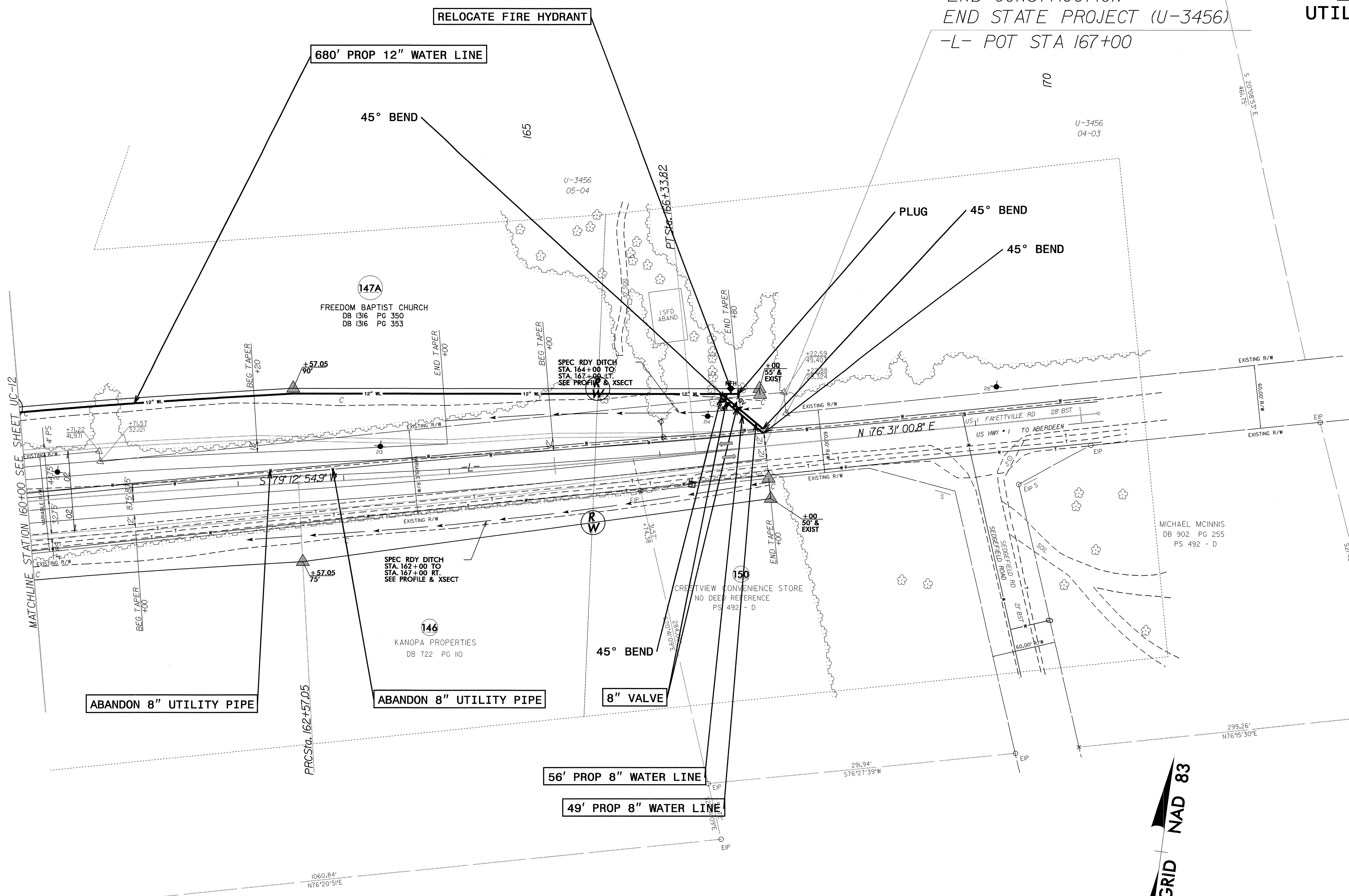
NC GRID NAD 83

PROJECT REFERENCE NO.	SHEET NO.
U-3456	UC-13
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

-L-
 PI Sta 160+49.91 PI Sta 164+45.47
 $\Delta = 2^{\circ} 58' 03.8''$ (RT) $\Delta = 2^{\circ} 41' 54.1''$ (LT)
 $D = 0^{\circ} 42' 58.3''$ $D = 0^{\circ} 42' 58.3''$
 $L = 414.37'$ $L = 376.76'$
 $T = 207.23'$ $T = 188.42'$
 $R = 8,000.00'$ $R = 8,000.00'$
 SE = NC SE = NC

END CONSTRUCTION
 END STATE PROJECT (U-3456)
 -L- POT STA 167+00



NC GRID NAD 83

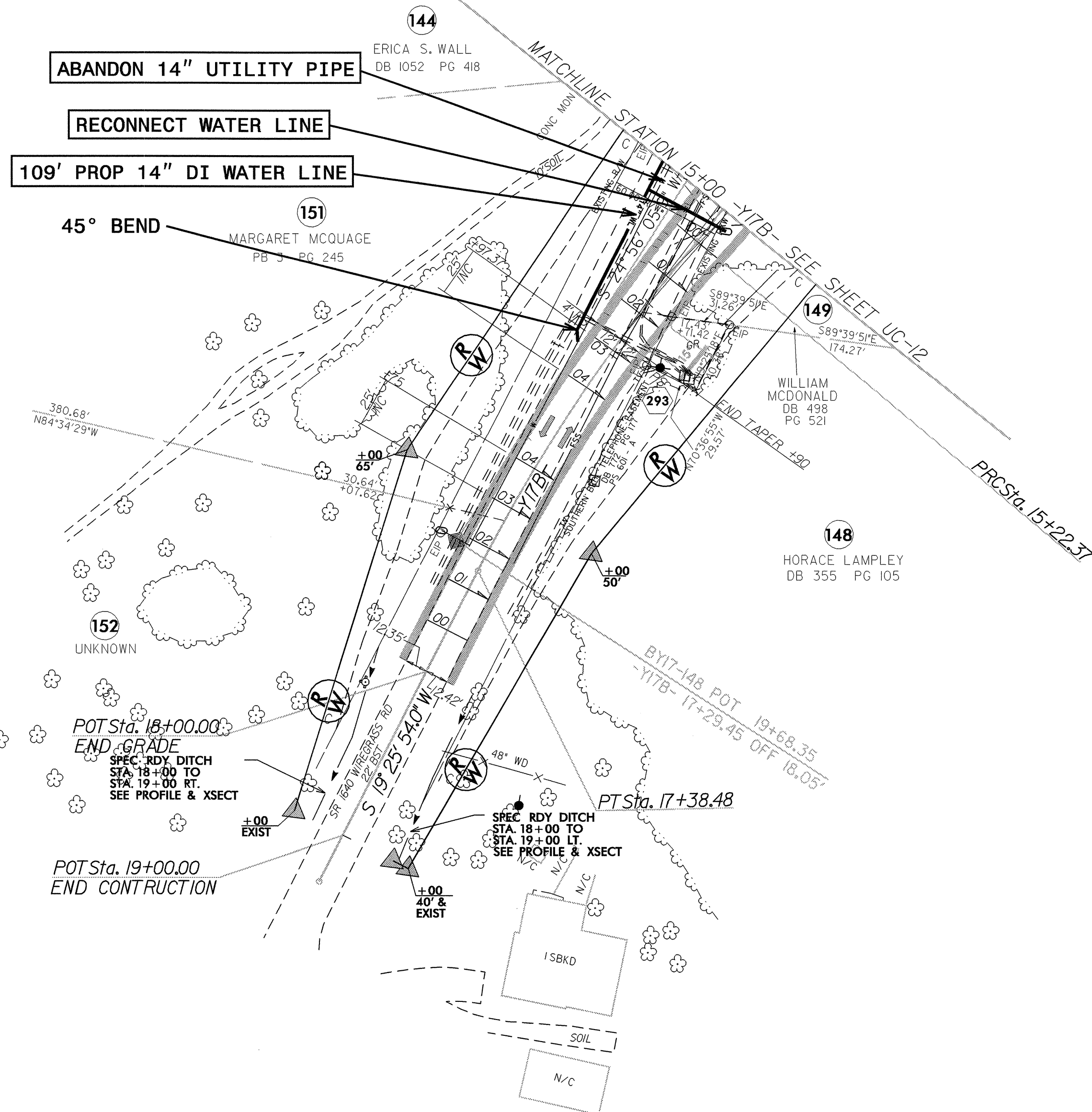
MATCHLINE STATION 160+00 SEE SHEET UC-12

5/14/99
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5/14/99

-Y17B-
 PI Sta 16+30.88
 $\Delta = 12' 49" 52.5" (LT)$
 $D = 5' 56" 14.6"$
 $L = 216.1'$
 $T = 108.5'$
 $R = 965.00'$
 $Se = .04$
 $Ro = 100.00'$

-Y17B-



NC GRID NAD 83

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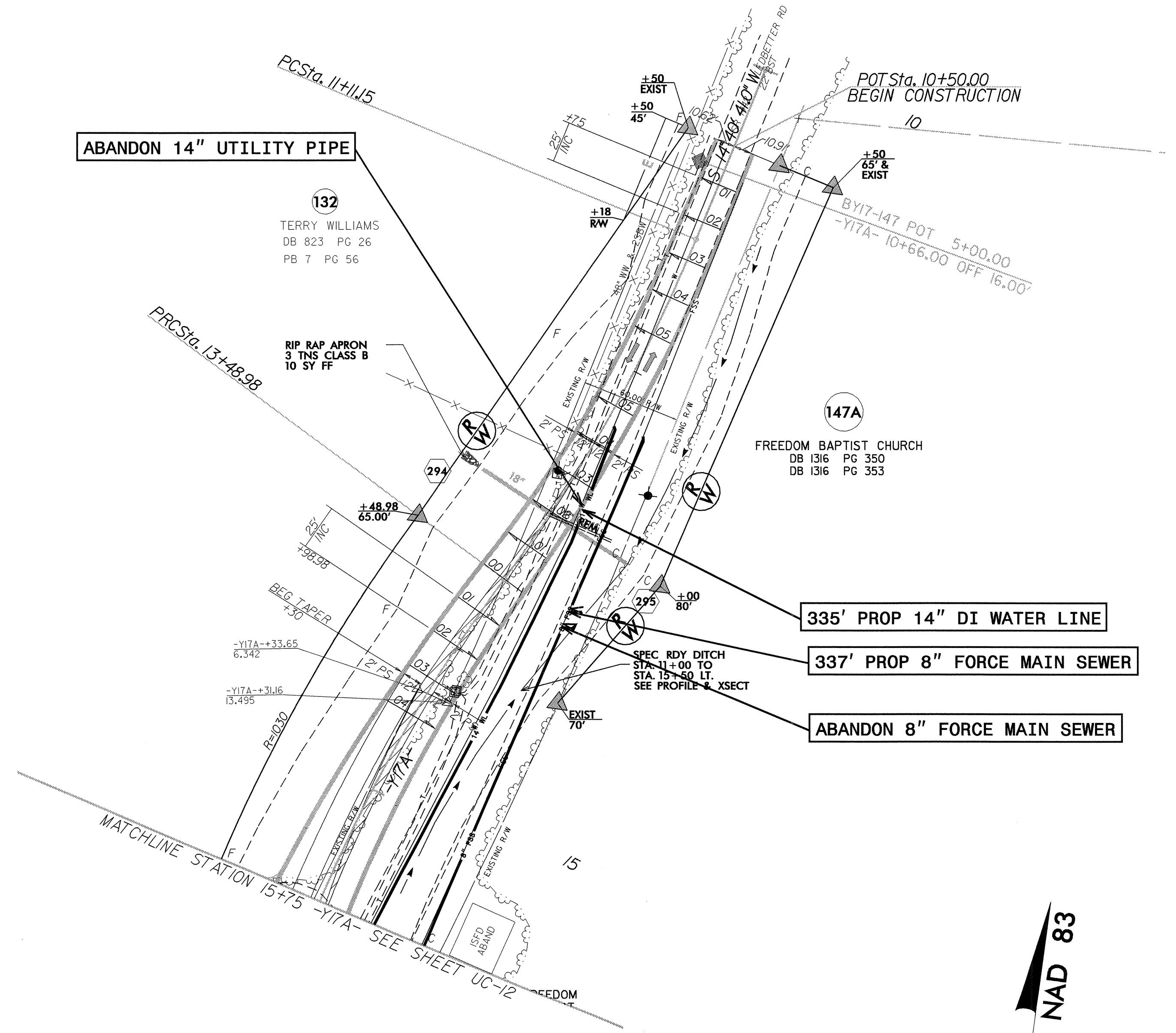
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U-3456	UC-14
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DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

-Y17A-
 PI Sta 12+30.67
 $\Delta = 14' 07" 15.2" (RT)$
 $D = 5' 56" 14.6"$
 $L = 237.83'$
 $T = 119.52'$
 $R = 965.00'$
 $Se = .05$
 $Ro = 125.00'$

-Y17A-
 PI Sta 15+85.57
 $\Delta = 27' 33" 05.1" (LT)$
 $D = 5' 56" 14.6"$
 $L = 464.03'$
 $T = 236.59'$
 $R = 965.00'$
 $Se = .04$
 $Ro = 100.00'$

-Y17A-



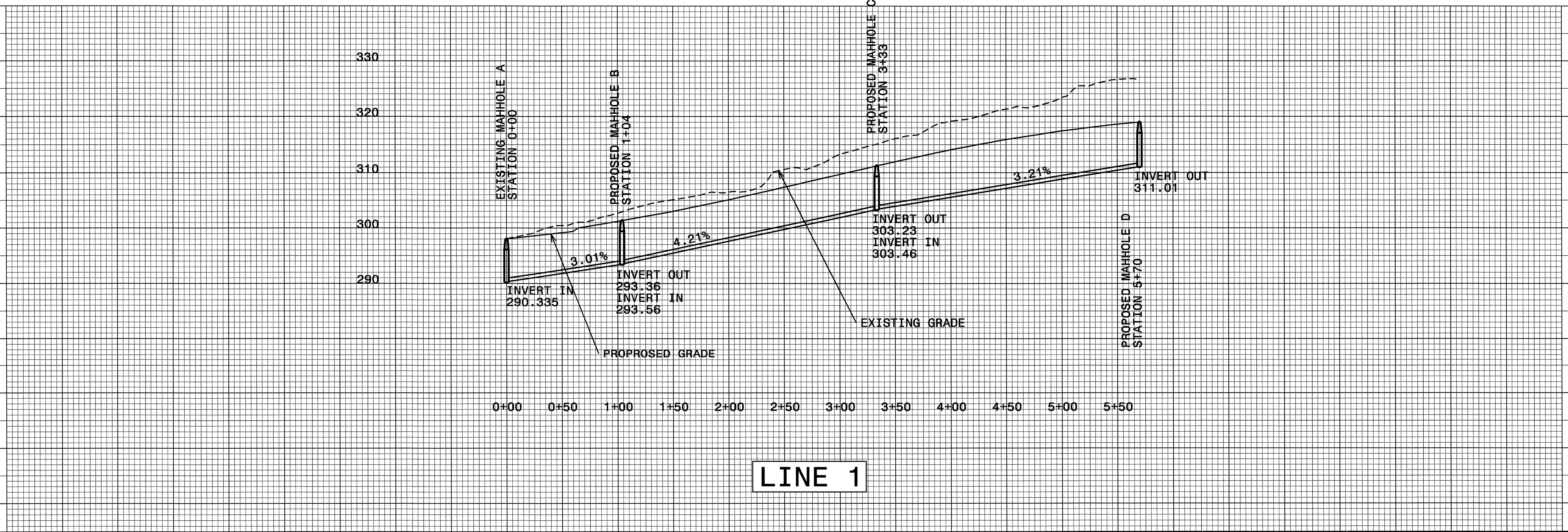
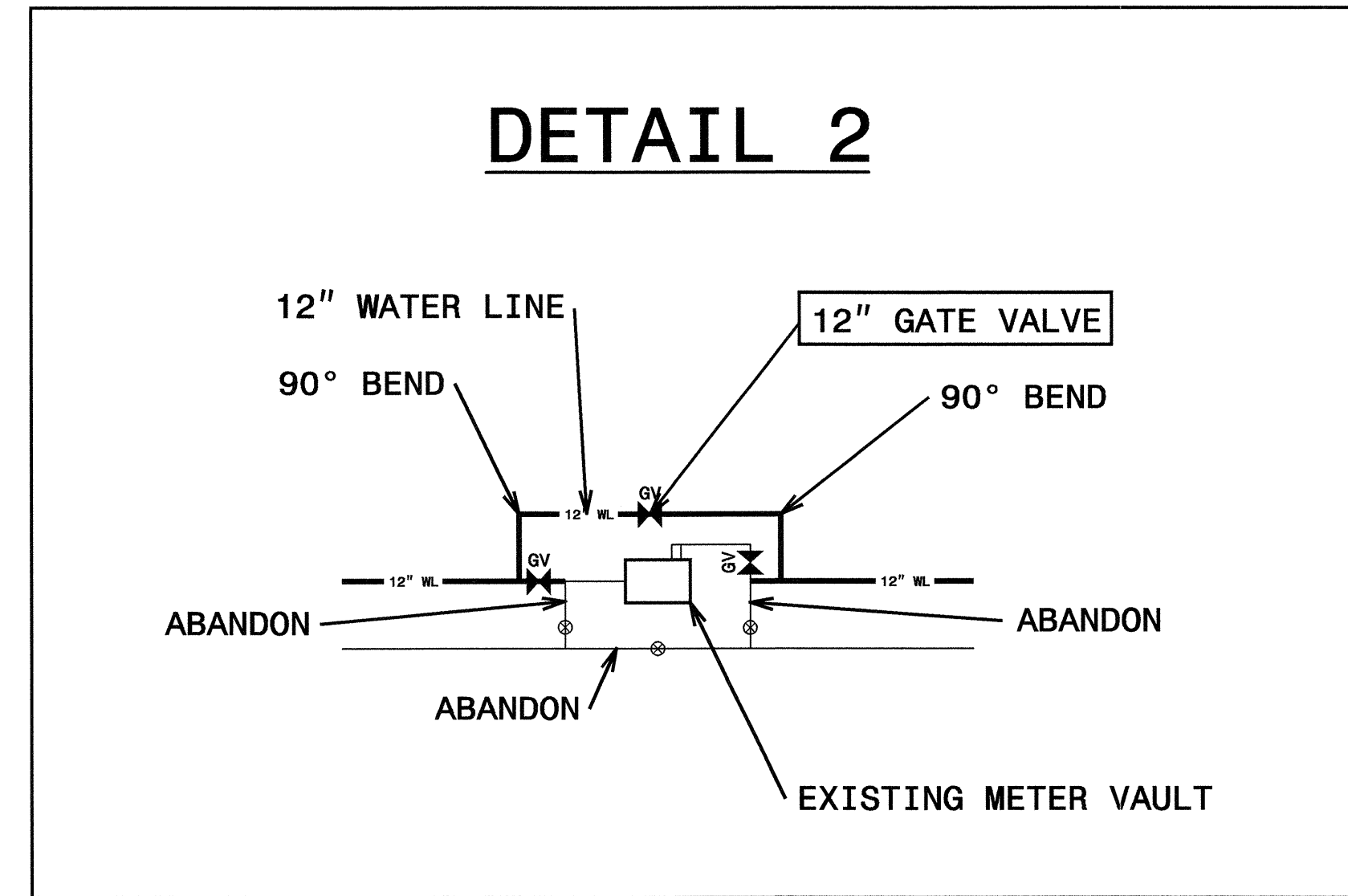
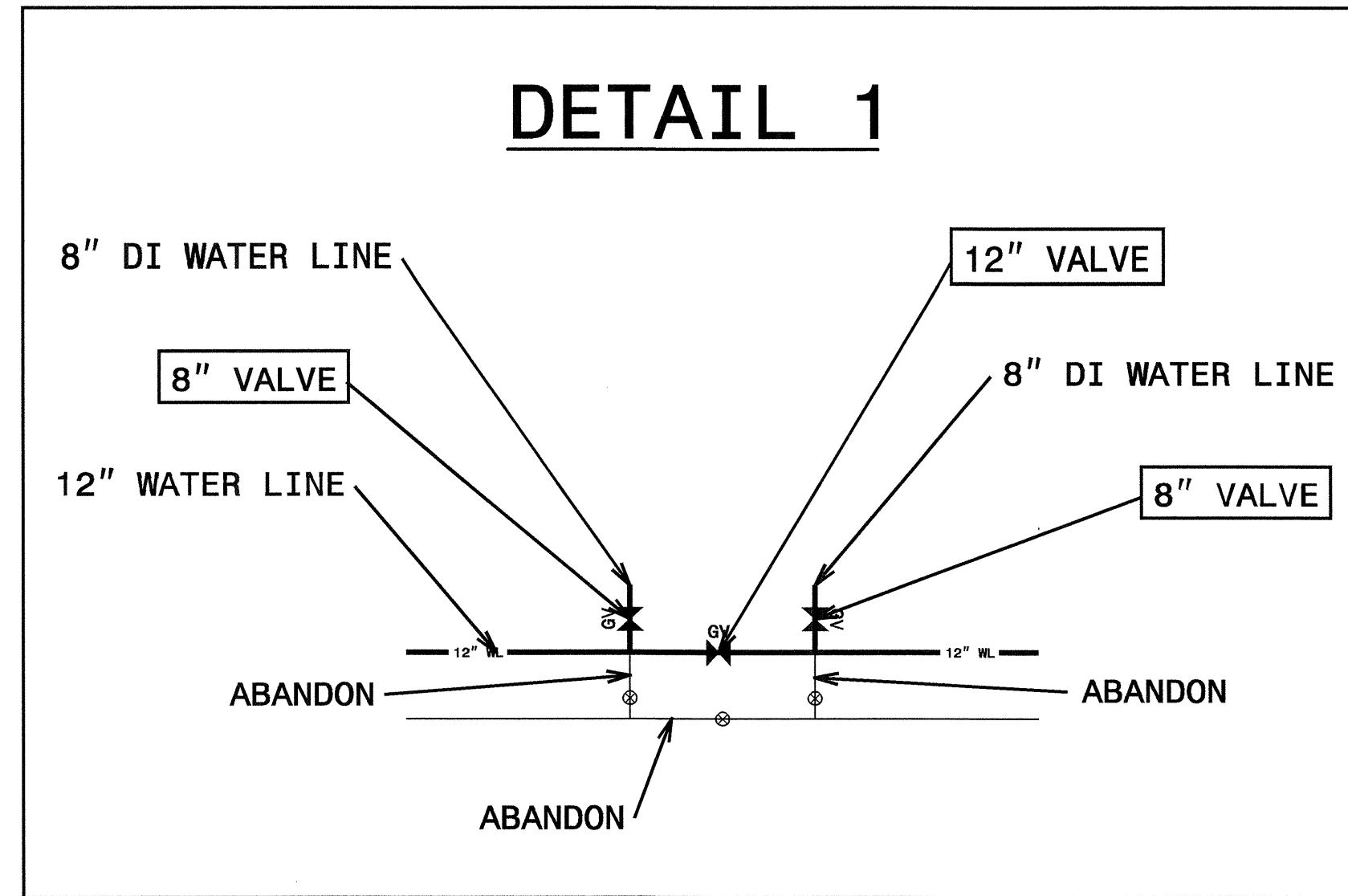
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8/17/99

REVISIONS

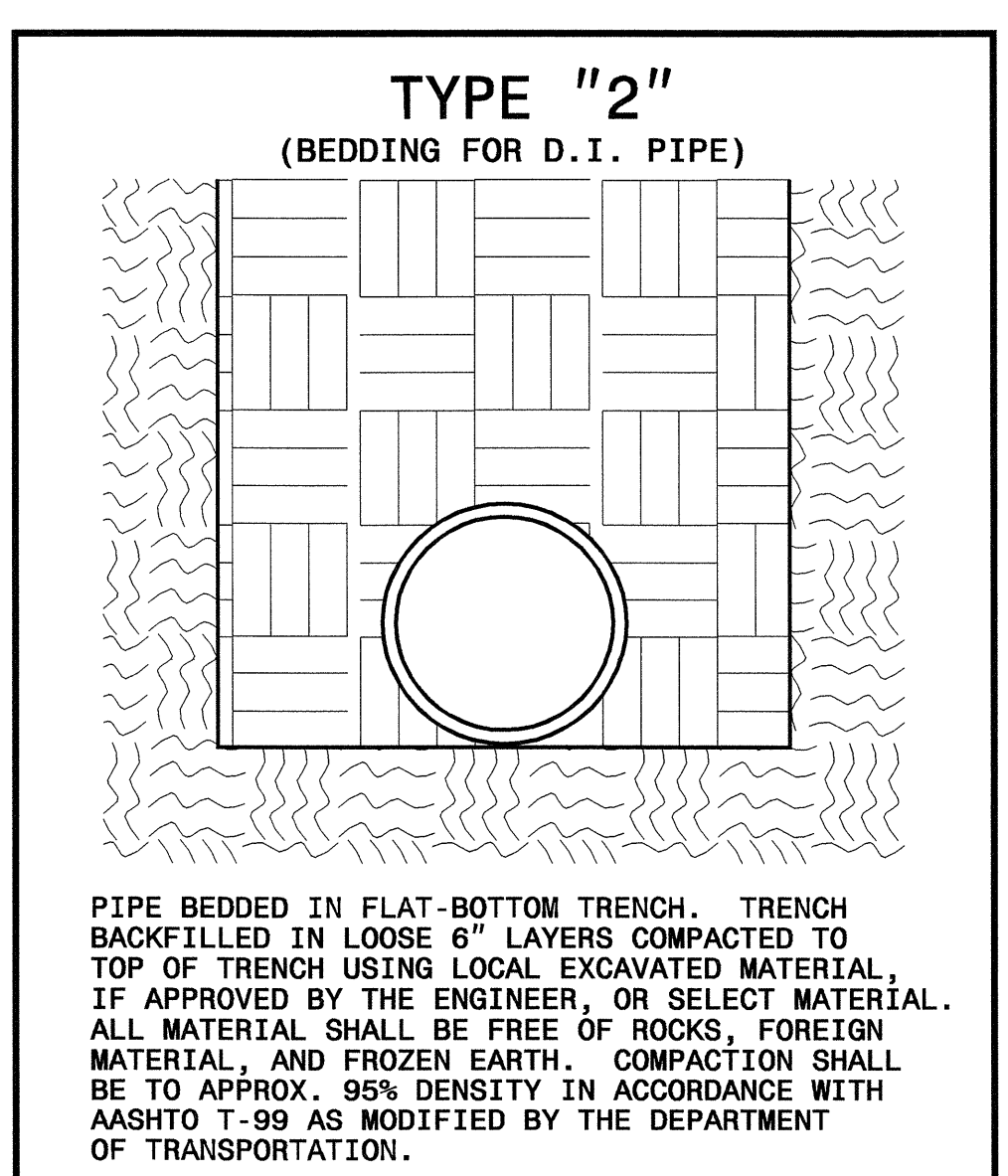
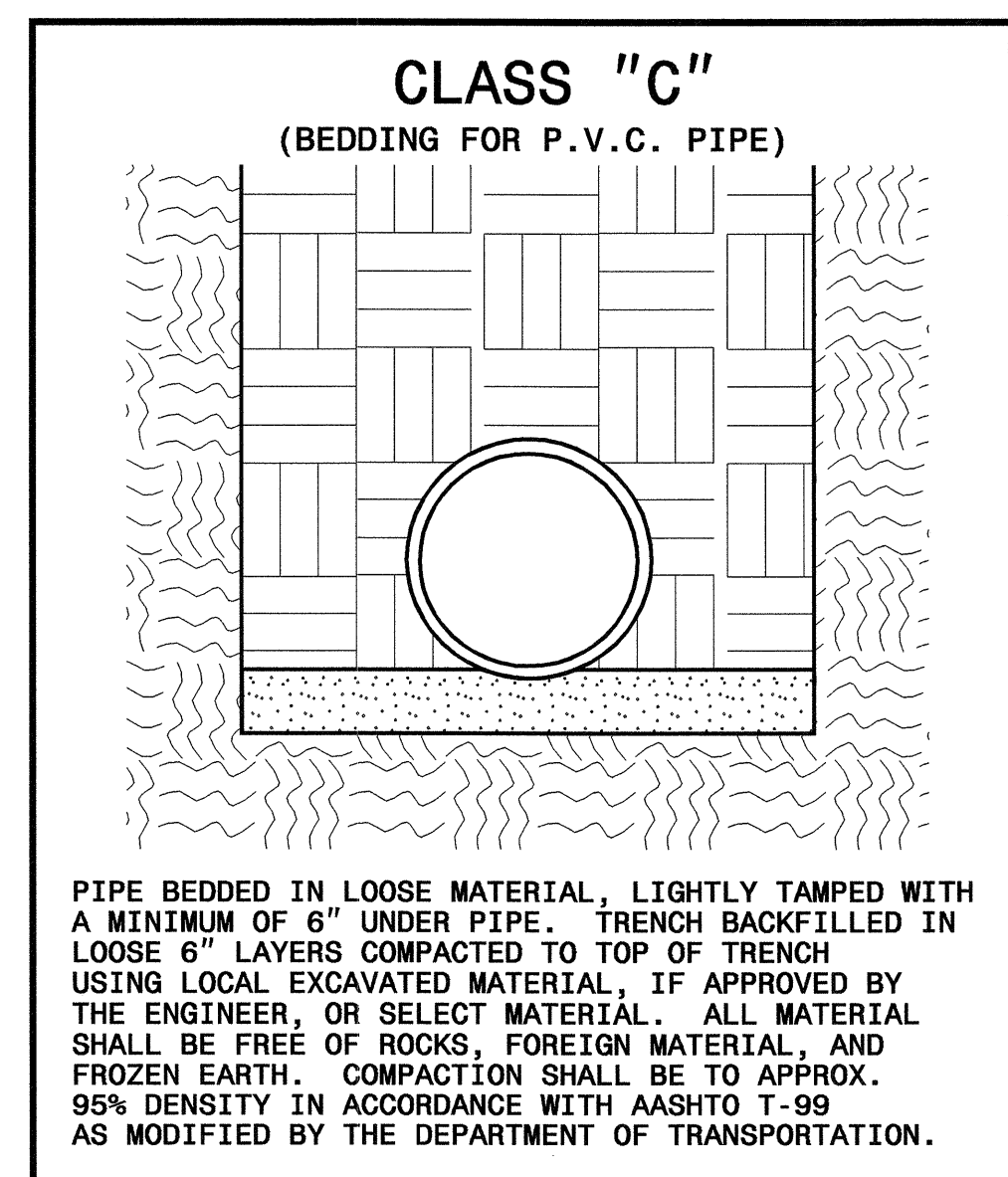
PROJECT REFERENCE NO. U-3456	SHEET NO. UC-15
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



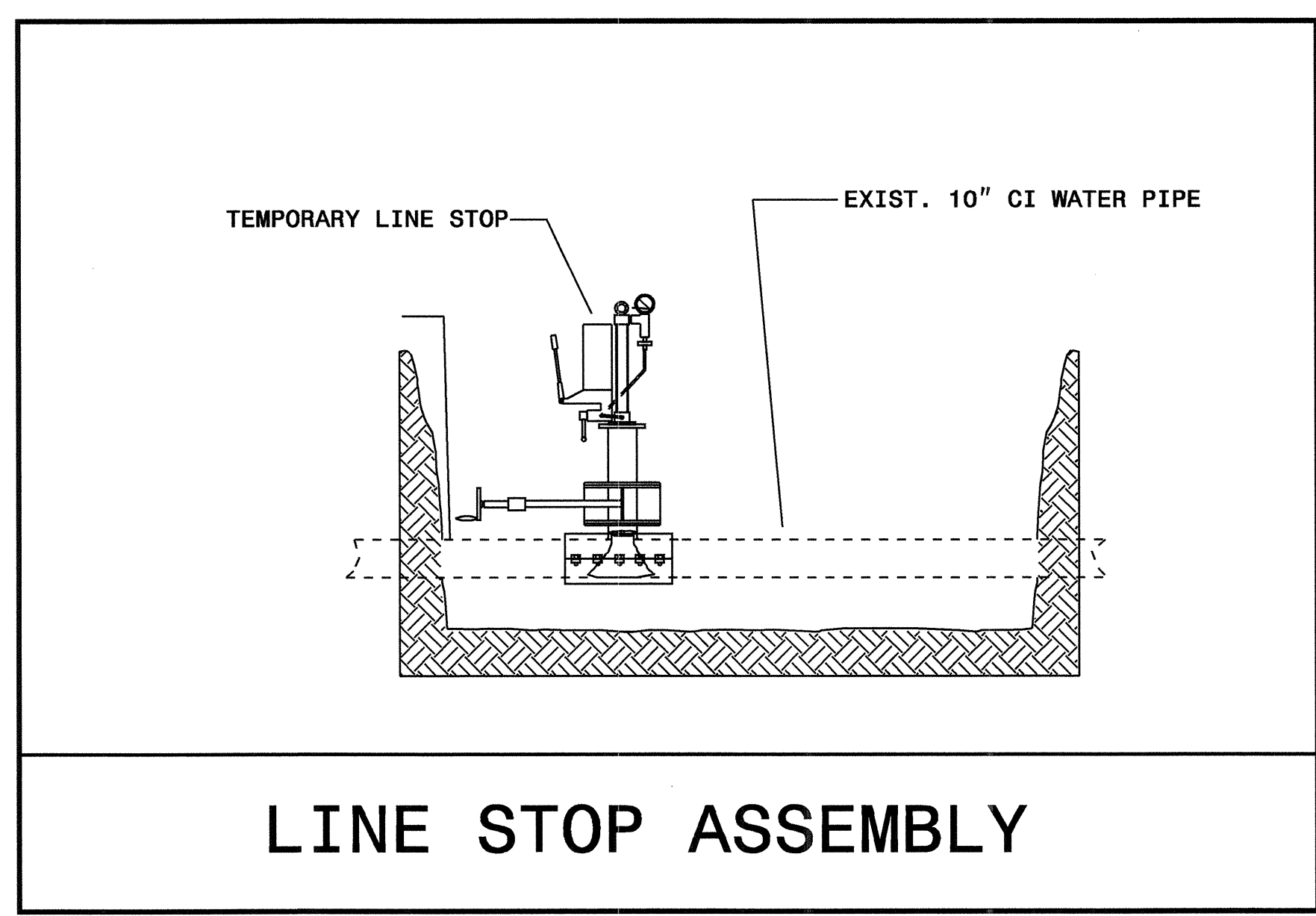
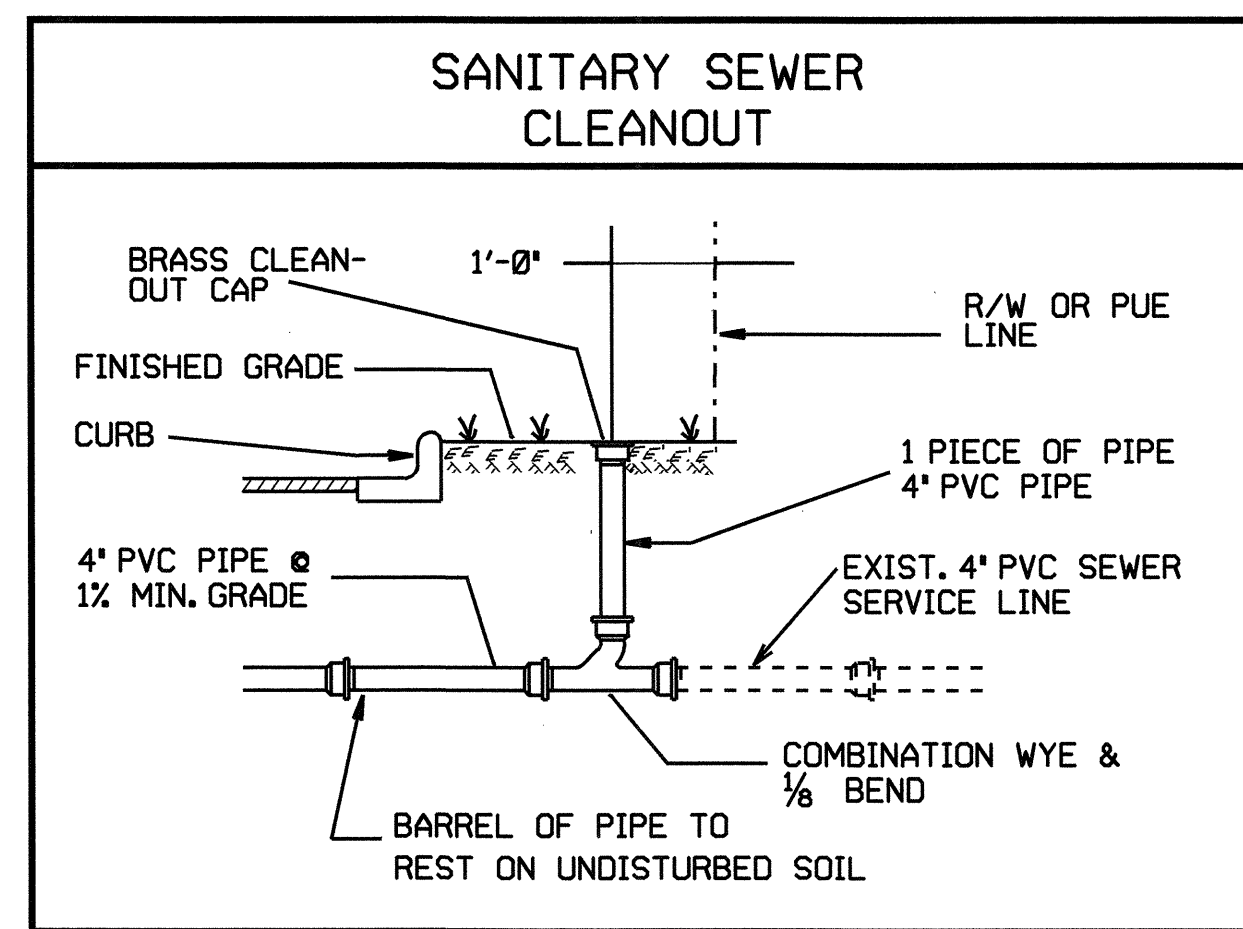
5/14/99

UTILITY CONSTRUCTION



MAXIMUM TRENCH WIDTH
AT TOP OF PIPE

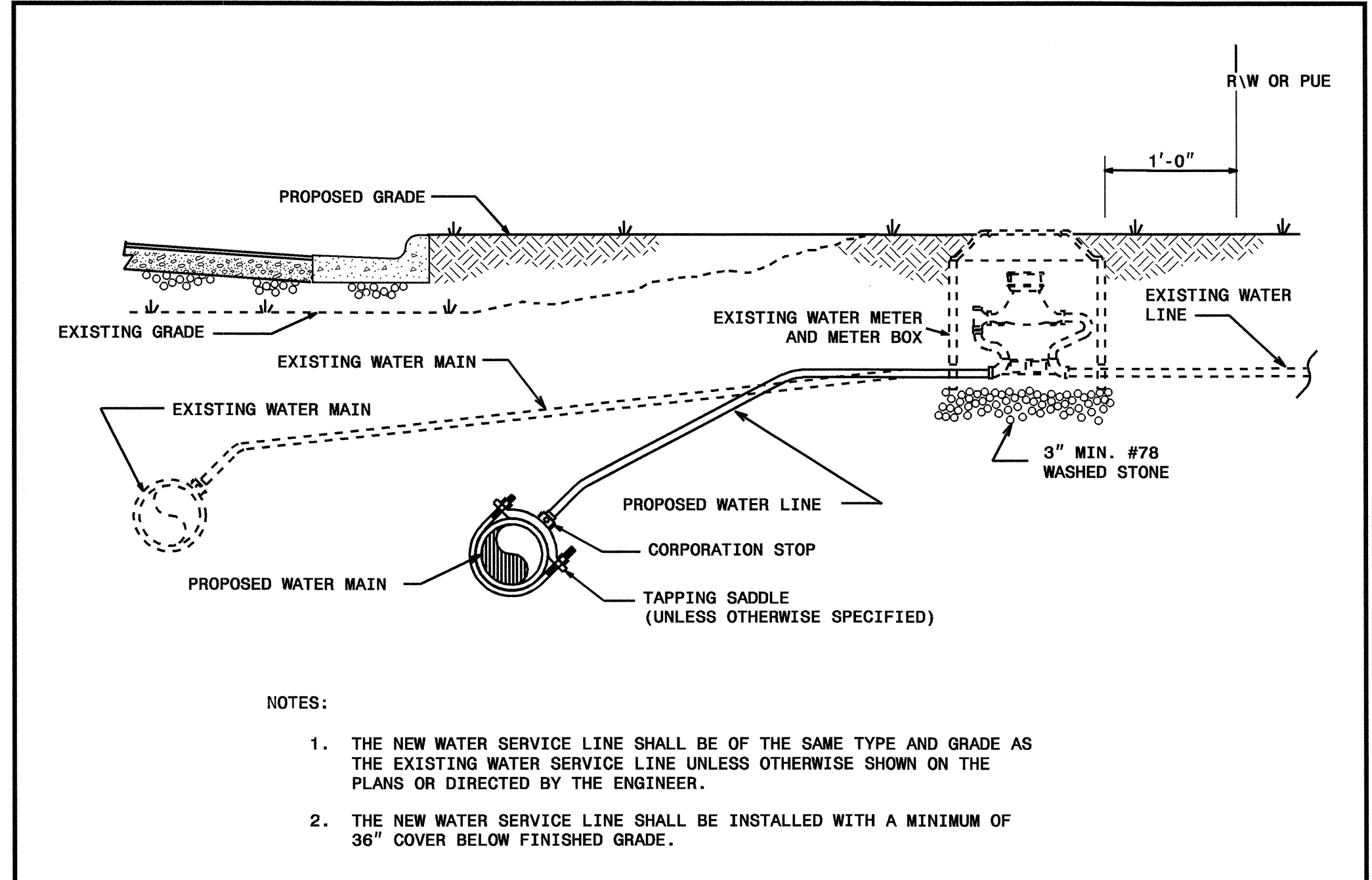
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



01-AUG-2007 11:11:00 AM \\pr-oj\3456.ut.udt.dgn

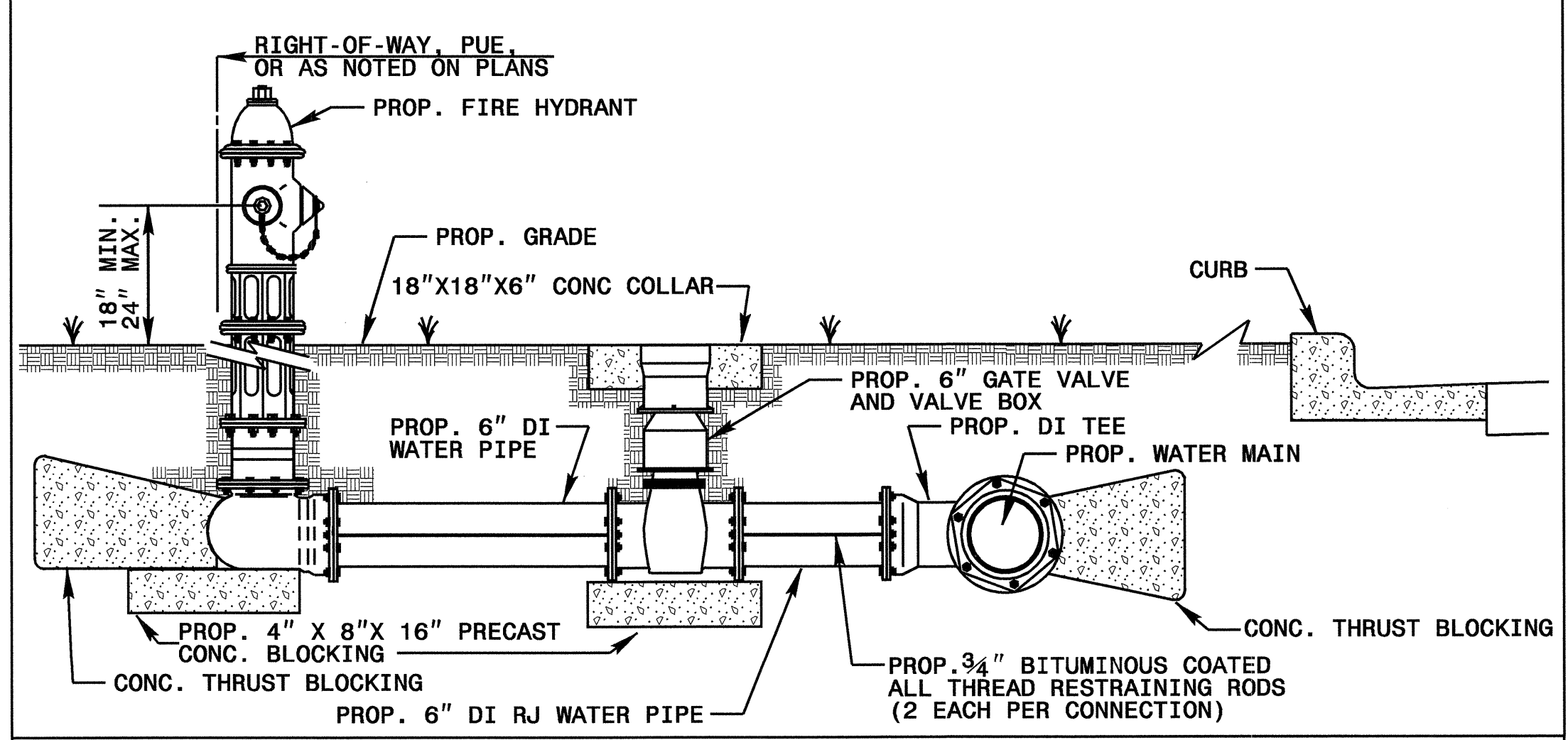
PROJECT REFERENCE NO. U-3456	SHEET NO. UC-17
DESIGNED BY: BH	
DRAWN BY: WSB	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

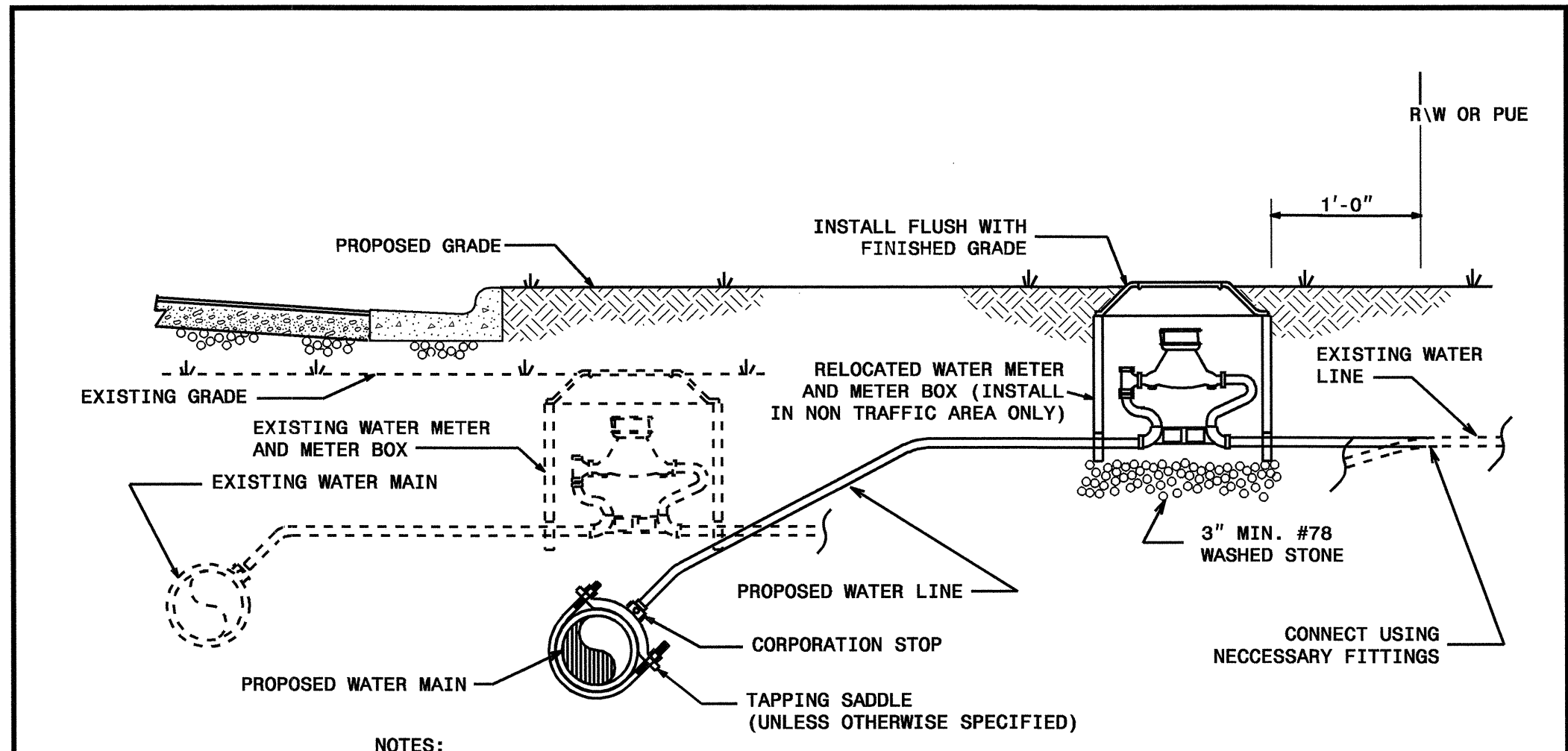


- NOTES:
1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

RECONNECT EXISTING WATER METER DETAIL

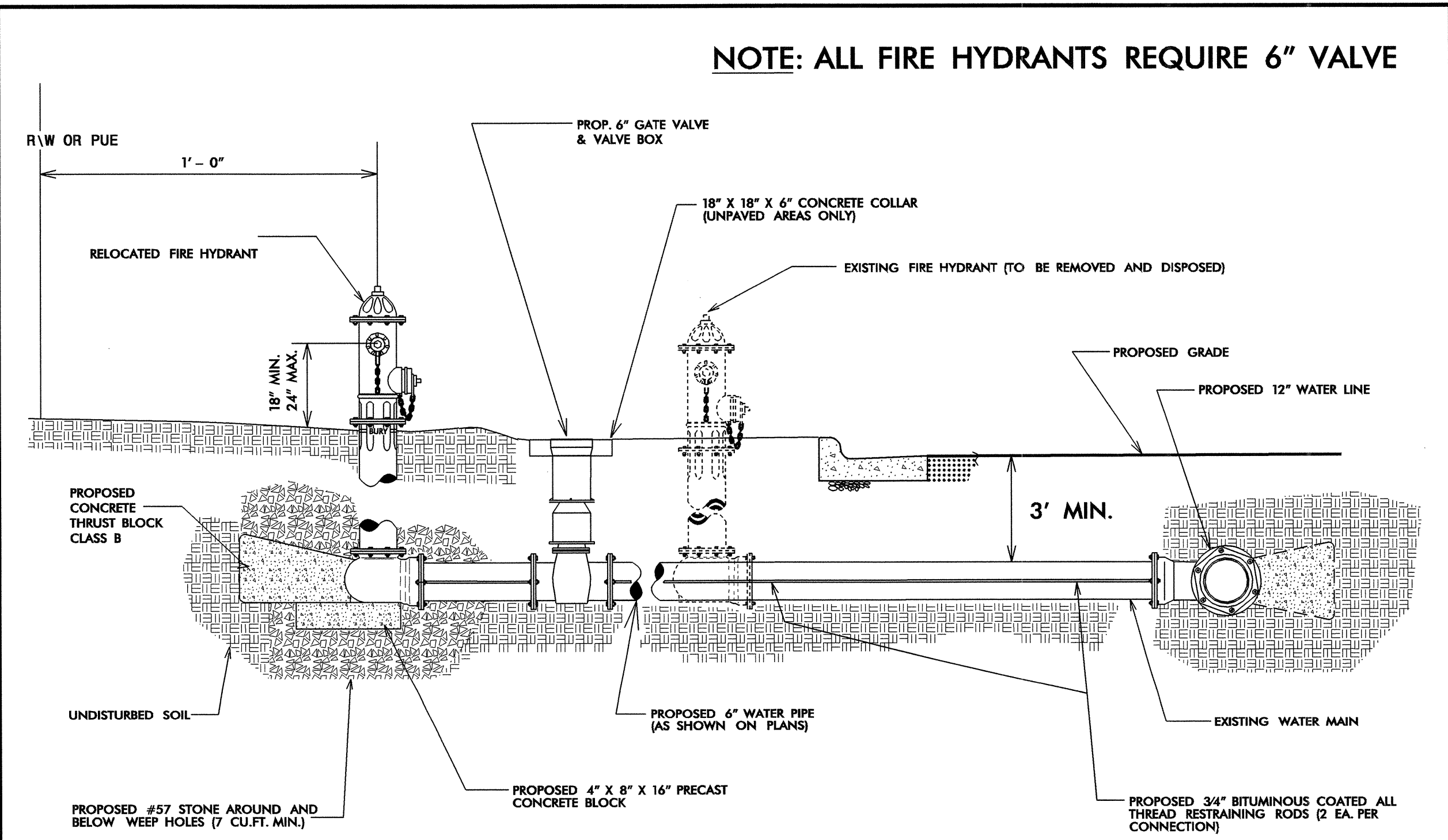


FIRE HYDRANT INSTALLATION DETAIL (UNPAVED AREAS)



- 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



NOTE: ALL FIRE HYDRANTS REQUIRE 6" VALVE

FIRE HYDRANT RELOCATION DETAIL

TIP PROJECT: U-3456

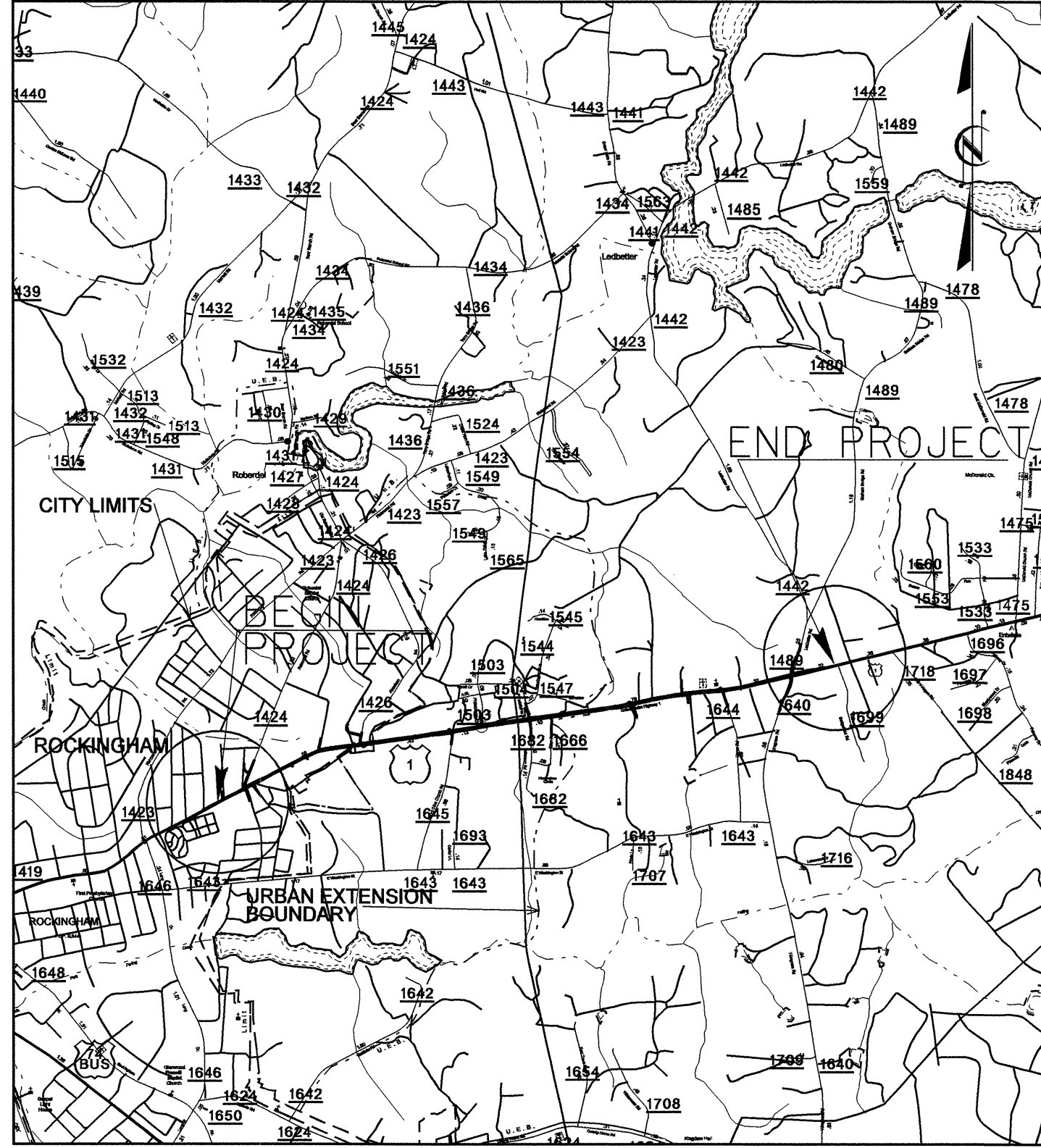
T.I.P. NO.	SHEET NO.
U-3456	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

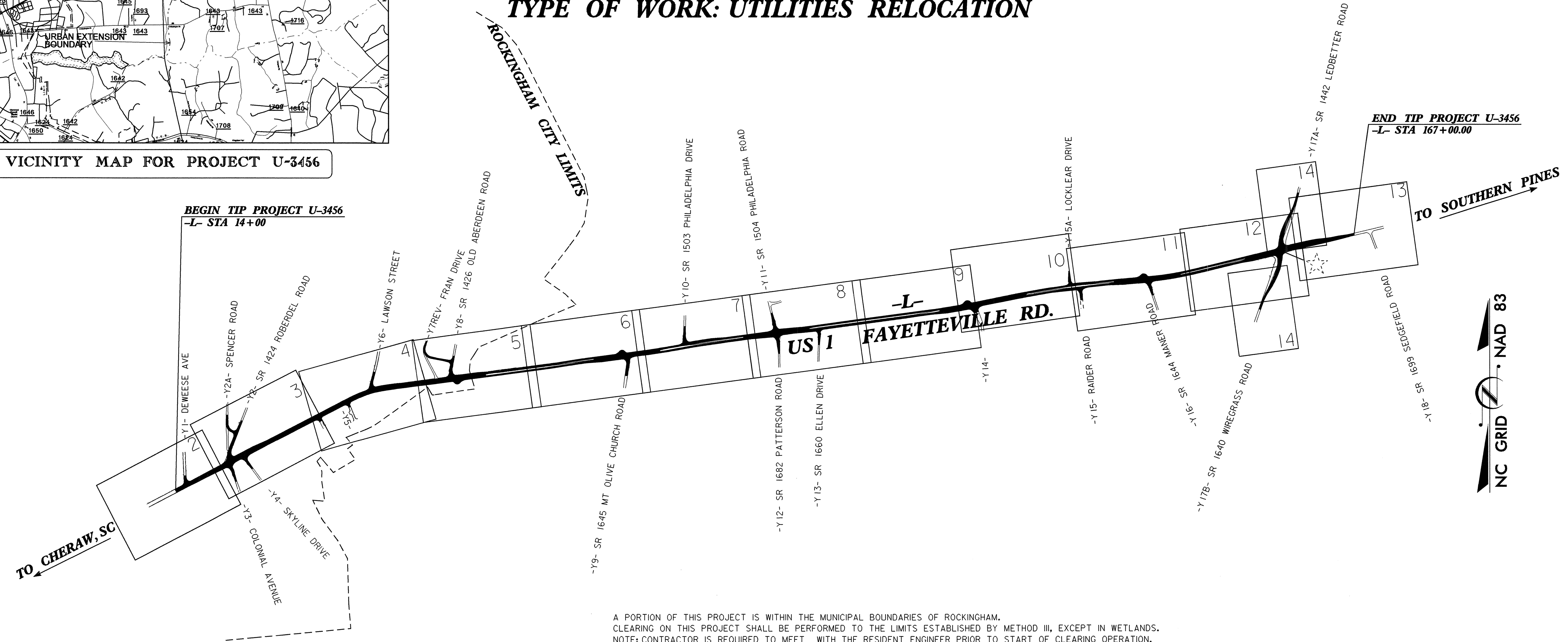
**UTILITIES BY OTHERS PLANS
RICHMOND COUNTY**

LOCATION: US1 FROM SR 1424 (ROBERDEL RD.) TO SR 1640 (WIREGRASS RD.) /SR 1442 (LEDBETTER RD.) IN ROCKINGHAM

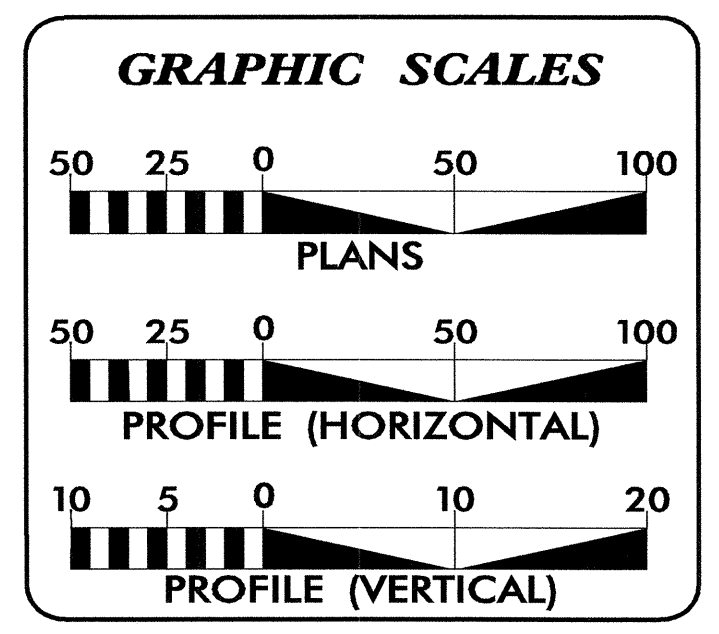
TYPE OF WORK: UTILITIES RELOCATION



VICINITY MAP FOR PROJECT U-3456



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF ROCKINGHAM.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III, EXCEPT IN WETLANDS.
NOTE: CONTRACTOR IS REQUIRED TO MEET WITH THE RESIDENT ENGINEER PRIOR TO START OF CLEARING OPERATION.
NCDOT CONTACT : DOUG TAYLOR, P.E., PROJECT ENGINEER, ROADWAY DESIGN



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-14	UTILITIES BY OTHERS PLAN SHEETS

- UTILITIES OWNERS ON PROJECT**
- (1) BELLSOUTH
 - (2) PEE DEE EMC
 - (3) PIEDMONT NATURAL GAS
 - (4) PROGRESS ENERGY
 - (5) TIME WARNER CABLE
 - (6) CITY OF ROCKINGHAM

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
Scott Beard UTILITIES PROJECT DESIGNER



UTILITIES BY OTHERS

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

-L-
 Pls Sta 39+73.08
 $\Delta s = 5' 58" 05.9"$
 $Ls = 250.00'$
 $T = 166.76'$
 $ST = 83.42'$

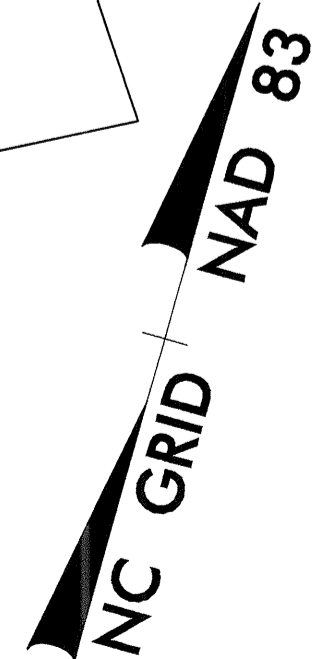
-L-
 Pls Sta 41+39.25
 $\Delta = 7' 54" 24.4" (RT)$
 $D = 4' 46" 28.7"$
 $L = 165.60'$
 $R = 1,200.00'$
 $SE = .06$
 $Ro = 250.00'$

-L-
 Pls Sta 43+05.34
 $\Delta s = 5' 58" 05.9"$
 $Ls = 250.00'$
 $T = 166.76'$
 $ST = 83.42'$

-Y6-
 Pls Sta 12+81.7
 $\Delta = 24' 04" 21.5" (LT)$
 $D = 22' 55" 05.9"$
 $L = 105.04'$
 $R = 250.00'$
 $SE = .03$
 $Ro = 60.00'$



01-AUG-2007 12:45
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 5/14/09

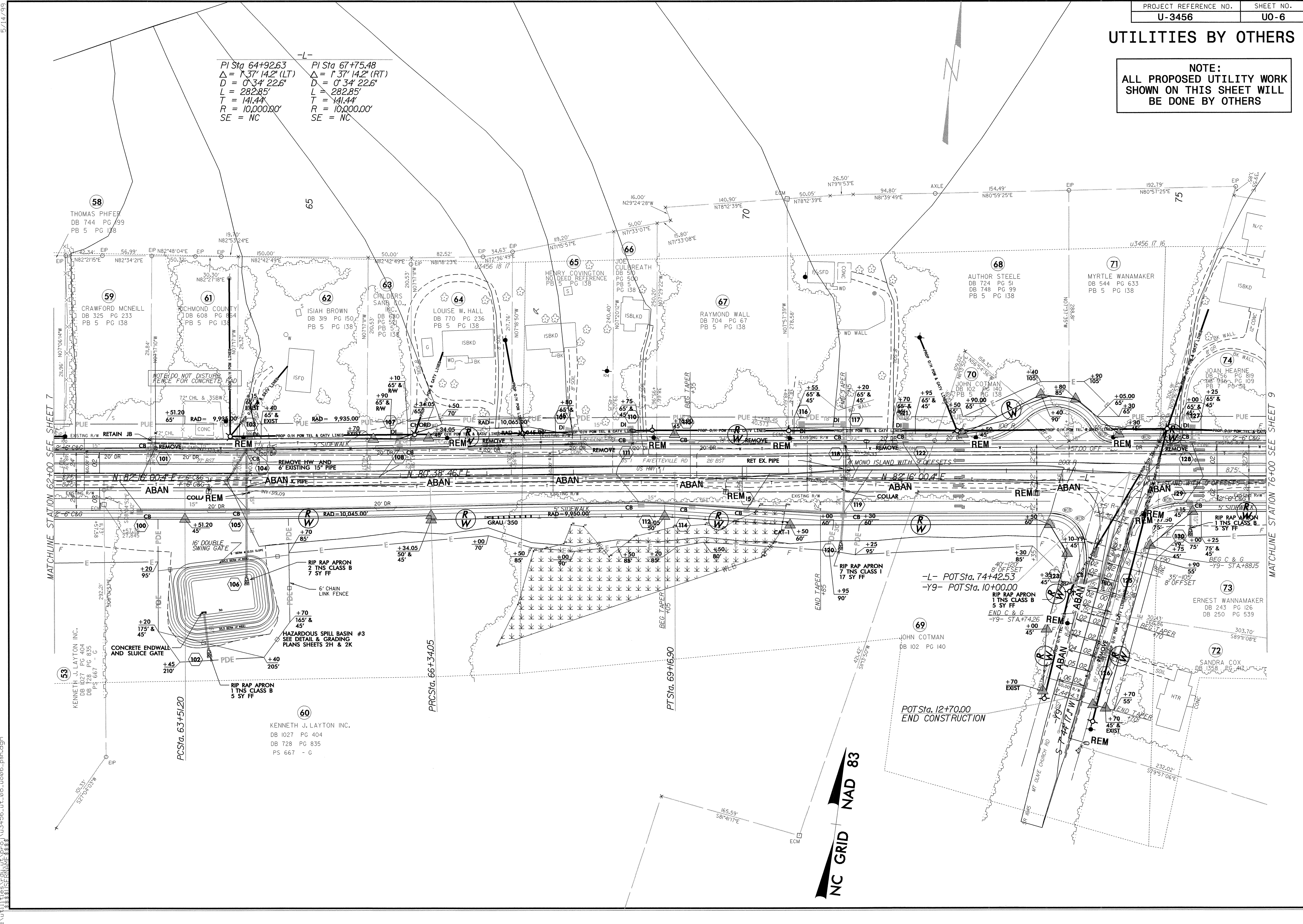


UTILITIES BY OTHERS

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

PI Sta 64+92.63
Δ = 1'37" 14.2" (LT)
D = 0'34" 22.6"
L = 282.85'
T = 141.44'
R = 10,000.00'
SE = NC

PI Sta 67+75.48
Δ = 1'37" 14.2" (RT)
D = 0'34" 22.6"
L = 282.85'
T = 141.44'
R = 10,000.00'
SE = NC



MATCHLINE STATION 62+00 SEE SHEET 7

MATCHLINE STATION 76+00 SEE SHEET 9

NC GRID NAD 83

01-AUG-2007 11:36
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UTILITIES BY OTHERS

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

-L-
 PI Sta 78+51.39 PI Sta 83+25.45
 $\Delta = 2' 40" 20.8" (LT)$ $\Delta = 2' 45" 35.5" (RT)$
 $D = 0' 34" 22.6"$ $D = 0' 34" 22.6"$
 $L = 466.43'$ $L = 481.69'$
 $T = 233.26'$ $T = 240.89'$
 $R = 10,000.00'$ $R = 10,000.00'$
 $SE = NC$ $SE = NC$

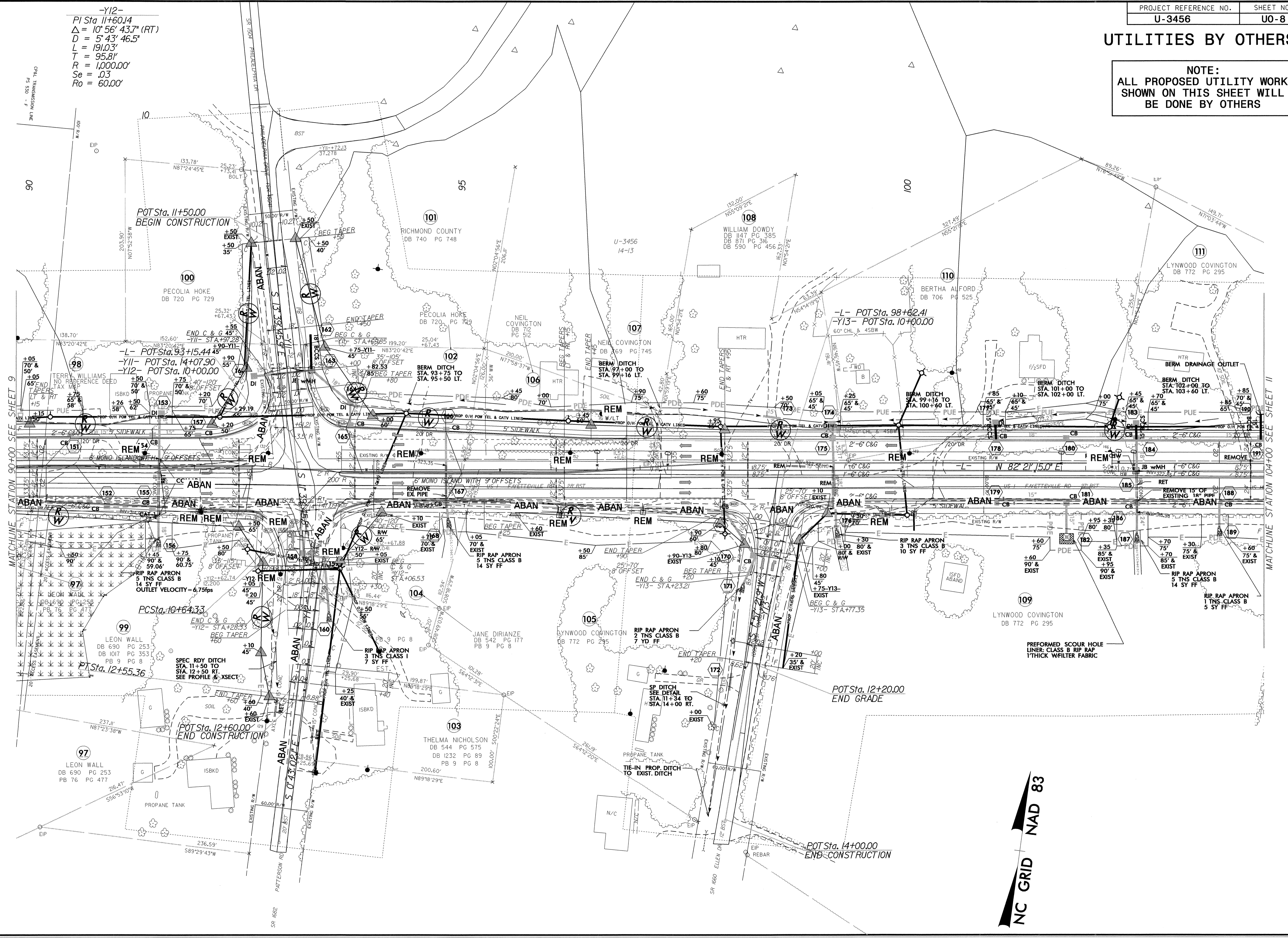


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 U:\3456\ut_09_uo07_psh.dgn

UTILITIES BY OTHERS

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

-Y12-
PI Sta 11+60.14
 $\Delta = 10^{\circ} 56' 43.7''$ (RT)
D = 5' 43' 46.5"
L = 191.03'
T = 95.81'
R = 1,000.00'
Se = .03
Ro = 60.00'



MATCHLINE STATION 90+00 SEE SHEET 9

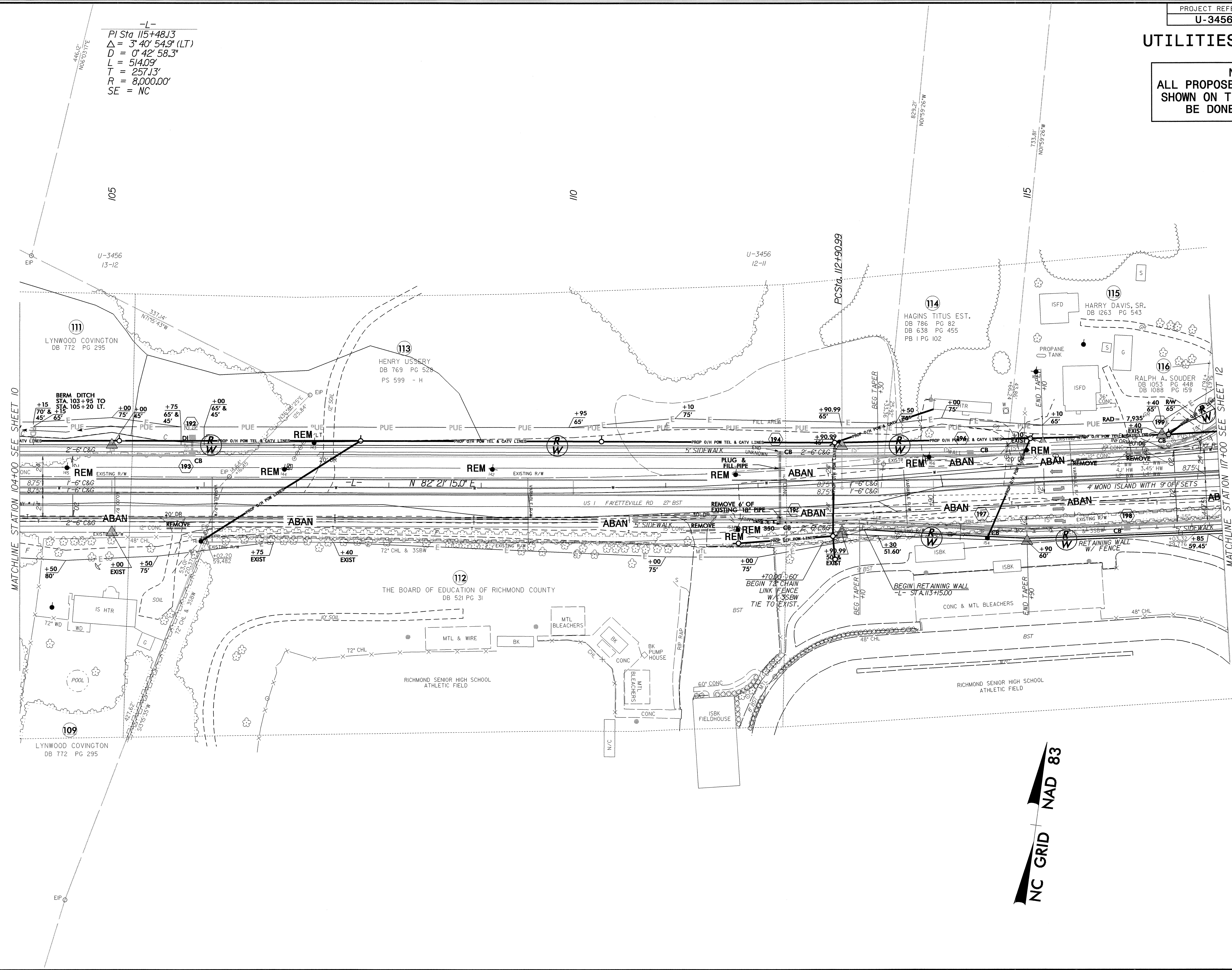
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\$\$\$\$\$REVISION\$\$\$\$\$

UTILITIES BY OTHERS

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

-L-
PI Sta 115+48.13
 $\Delta = 3^{\circ} 40' 54.9" (LT)$
 $D = 0^{\circ} 42' 58.3"$
 $L = 514.09'$
 $T = 257.13'$
 $R = 8,000.00'$
SE = NC



MATCHLINE STATION 104+00 SEE SHEET 10

MATCHLINE STATION 117+00 SEE SHEET 12

NC GRID NAD 83

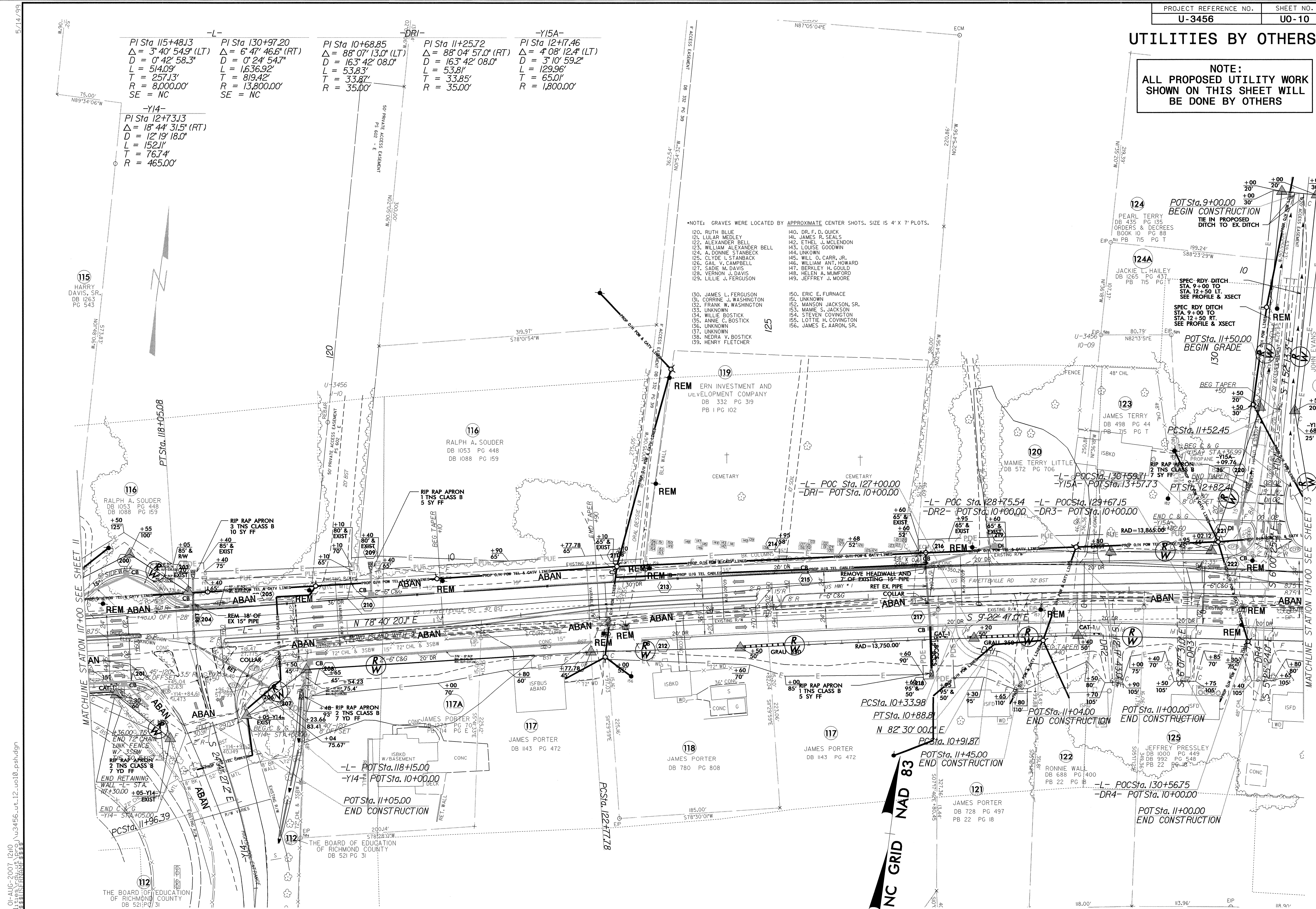
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UTILITIES BY OTHERS

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

-L- PI Sta 115+48.13 Δ = 3° 40' 54.9" (LT) D = 0' 42' 58.3" L = 514.09' T = 257.13' R = 8,000.00' SE = NC	-Y14- PI Sta 130+97.20 Δ = 6° 47' 46.6" (RT) D = 0' 24' 54.7" L = 1636.92' T = 819.42' R = 13,800.00' SE = NC	-Y15A- PI Sta 10+68.85 Δ = 88° 07' 13.0" (LT) D = 163° 42' 08.0" L = 53.83' T = 33.87' R = 35.00'	-Y15B- PI Sta 11+25.72 Δ = 88° 04' 57.0" (RT) D = 163° 42' 08.0" L = 53.83' T = 33.87' R = 35.00'	-Y15C- PI Sta 12+17.46 Δ = 4° 08' 12.4" (LT) D = 3° 10' 59.2" L = 129.96' T = 65.01' R = 1,800.00'
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- NOTE: GRAVES WERE LOCATED BY APPROXIMATE CENTER SHOTS. SIZE IS 4' X 7' PLOTS.
- | | |
|-----------------------------|--------------------------|
| 120. RUTH BLUE | 140. DR. F. D. QUICK |
| 121. LULAR MEDLEY | 141. JAMES R. SEALS |
| 122. ALEXANDER BELL | 142. ETHEL J. MCLENDON |
| 123. WILLIAM ALEXANDER BELL | 143. LOUISE GOODWIN |
| 124. A. DONNE STANBECK | 144. UNKNOWN |
| 125. CLYDE L. STANBACK | 145. WILL O. CARR, JR. |
| 126. GAIL V. CAMPBELL | 146. WILLIAM ANT. HOWARD |
| 127. SADIE M. DAVIS | 147. BERKLEY H. GOULD |
| 128. VERNON J. DAVIS | 148. HELEN A. MUMFORD |
| 129. LILLIE J. FERGUSON | 149. JEFFREY J. MOORE |
-
- | | |
|----------------------------|---------------------------|
| 130. JAMES L. FERGUSON | 150. ERIC E. FURNAME |
| 131. CORRINE J. WASHINGTON | 151. UNKNOWN |
| 132. FRANK W. WASHINGTON | 152. MANSION JACKSON, SR. |
| 133. UNKNOWN | 153. MAMIE S. JACKSON |
| 134. WILLIE BOSTICK | 154. STEVEN COVINGTON |
| 135. ANNIE C. BOSTICK | 155. LOTTIE H. COVINGTON |
| 136. UNKNOWN | 156. JAMES E. AARON, SR. |
| 137. UNKNOWN | |
| 138. NEDRA V. BOSTICK | |
| 139. HENRY FLETCHER | |



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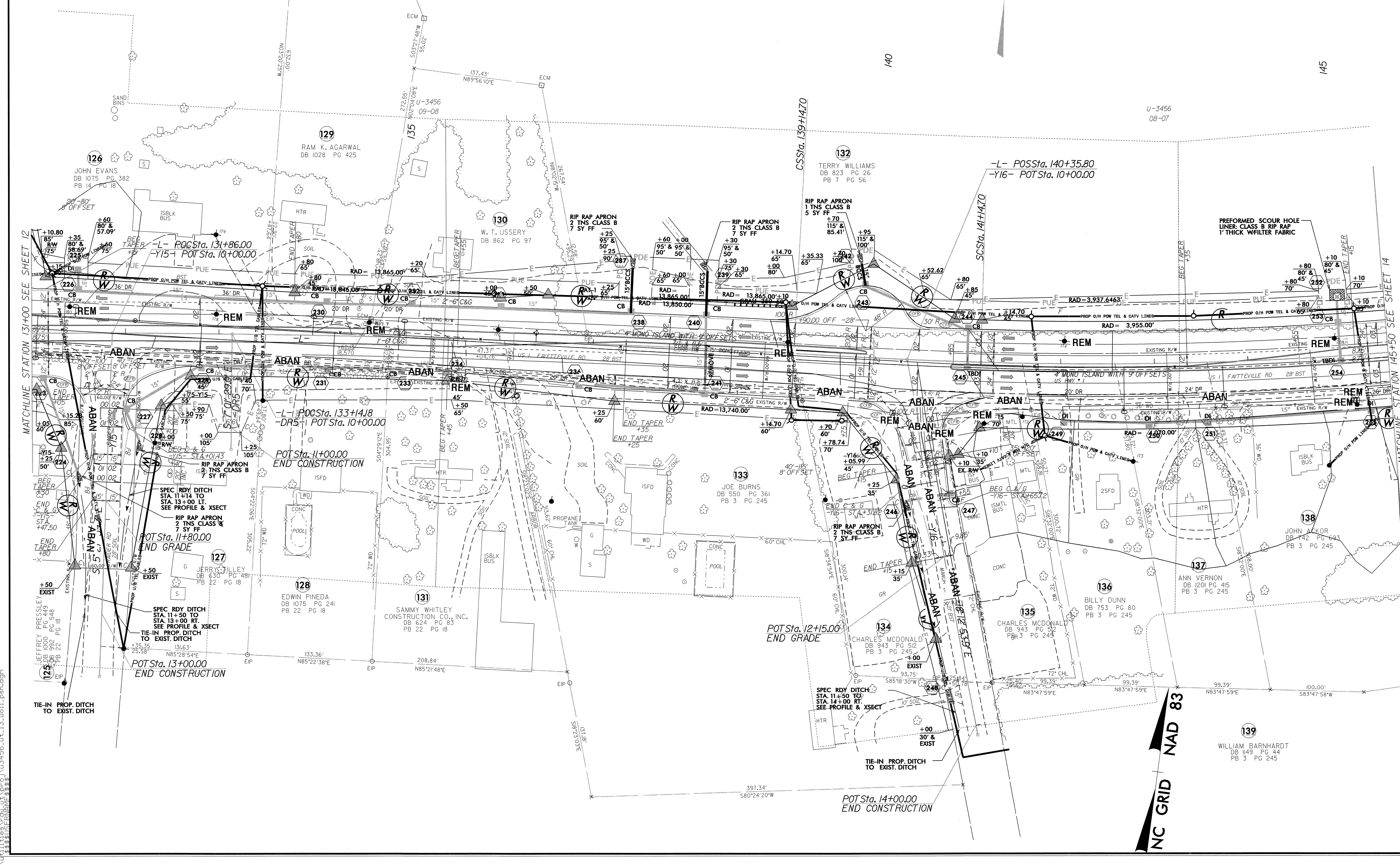
MATCHLINE STATION 13700 SEE SHEET 13

NC GRID NAD 83

UTILITIES BY OTHERS

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

<p>PI Sta 130+97.20 $\Delta = 6' 47'' 46.6''$ (RT) $D = 0' 24' 54.7''$ $L = 1,636.92'$ $T = 819.42'$ $R = 13,800.00'$ $SE = NC$</p>	<p>PIs Sta 140+48.04 $\Delta s = 1' 25' 56.6''$ $Ls = 200.00'$ $LT = 133.34'$ $ST = 66.67'$</p>	<p>PI Sta 143+36.80 $\Delta = 6' 21' 22.4''$ (LT) $D = 1' 25' 56.6''$ $L = 443.75'$ $T = 222.10'$ $R = 4,000.00'$ $SE = .03$ $Ro = 200.00'$</p>	<p>PIs Sta 146+25.12 $\Delta s = 1' 25' 56.6''$ $Ls = 200.00'$ $LT = 133.34'$ $ST = 66.67'$</p>
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 PROJECT: U-3456-UT-13-NC-GRID-NAD-83

NC GRID NAD 83

145

140

U-3456
08-07

CSSSta. 139+1470

SCSSSta. 141+1470

MATCHLINE STATION 13+00 SEE SHEET 12

MATCHLINE STATION 145+50 SEE SHEET 14

TIE-IN PROP. DITCH TO EXIST. DITCH

POTSta. 14+00.00
END CONSTRUCTION

POTSta. 13+00.00
END CONSTRUCTION

POTSta. 12+15.00
END GRADE

EDWIN PINEDA
DB 1075 PG 241
PB 22 PG 18

SAMMY WHITLEY
CONSTRUCTION CO., INC.
DB 624 PG 93
PB 22 PG 18

BILLY DUNN
DB 753 PG 80
PB 3 PG 245

ANN VERNON
DB 1201 PG 415
PB 3 PG 245

CHARLES McDONALD
DB 943 PG 512
PB 3 PG 245

WILLIAM BARNHARDT
DB 1149 PG 44
PB 3 PG 245

POTSta. 11+80.00
END GRADE

JERRY JILLEY
DB 630 PG 381
PB 22 PG 18

JOE BURNS
DB 550 PG 361
PB 3 PG 245

JOHN AKOR
DB 142 PG 693
PB 3 PG 245

POTSta. 11+00.00
END CONSTRUCTION

POTSta. 133+418
DR5+ POTSta. 10+00.00

POTSta. 11+00.00
END CONSTRUCTION

POTSta. 131+86.00
Y15+ POTSta. 10+00.00

POTSta. 11+80.00
END GRADE

POTSta. 11+00.00
END CONSTRUCTION

POTSta. 11+00.00
END CONSTRUCTION

POTSta. 11+00.00
END CONSTRUCTION

POTSta. 11+00.00
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POTSta. 11+00.00
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END CONSTRUCTION

POTSta. 11+00.00
END CONSTRUCTION

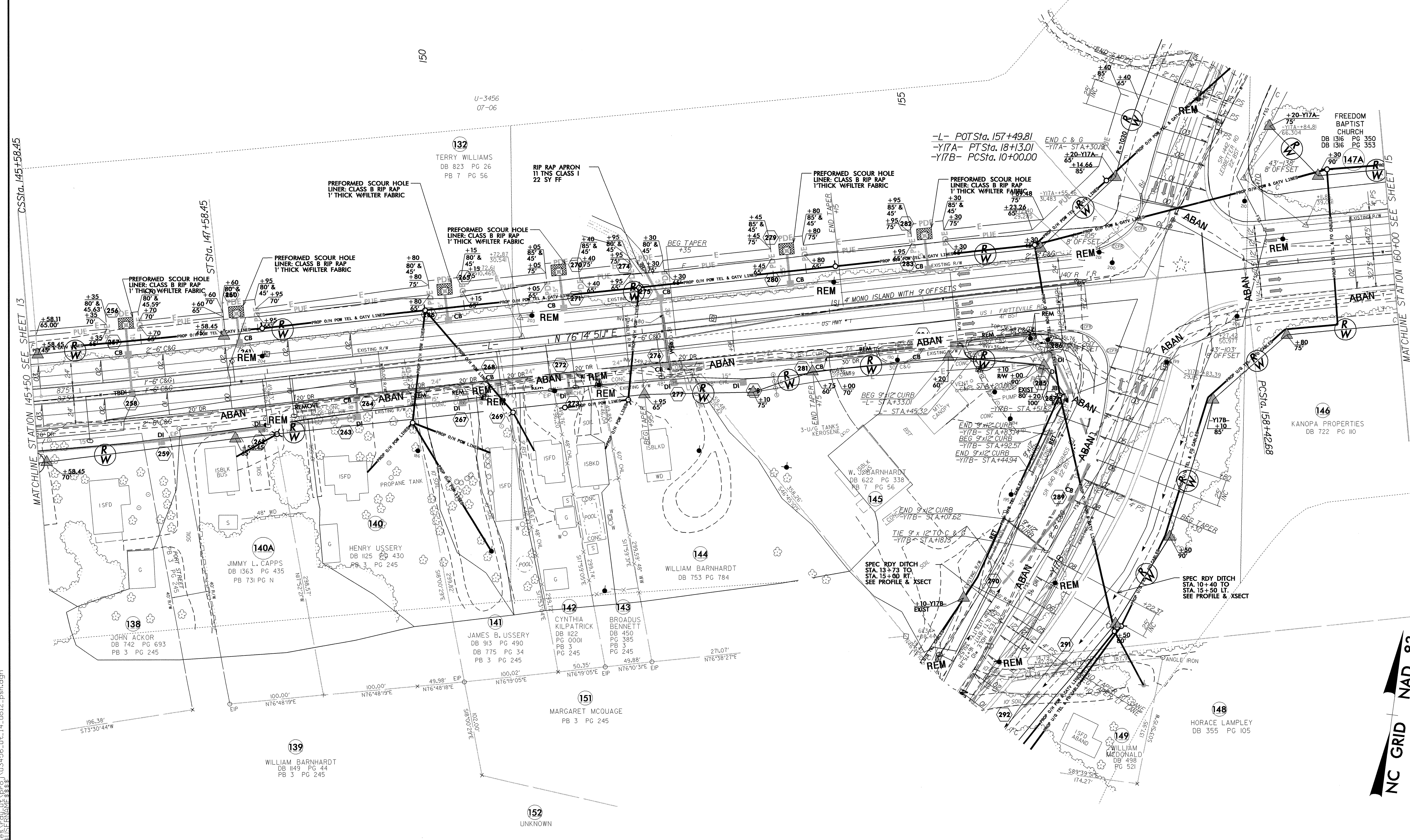
POTSta. 11+00.00
END CONSTRUCTION

POTSta. 11+00.00
END CONSTRUCTION

UTILITIES BY OTHERS

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

<p>-L- PI Sta 140+480.4 Δs = 1' 25" 56.6" Ls = 200.00' LT = 133.34' ST = 66.67'</p>	<p>-L- PI Sta 143+36.80 Δ = 6' 21" 22.4" (LT) Ls = 200.00' L = 443.75' T = 222.10' R = 4,000.00' SE = .03 Ro = 200.00'</p>	<p>-L- PI Sta 146+25.12 Δs = 1' 25" 56.6" Ls = 200.00' LT = 133.34' ST = 66.67'</p>	<p>-Y1A- PI Sta 160+49.91 Δ = 2' 58" 03.8" (RT) D = 0' 42" 58.3" L = 414.37' T = 207.23' R = 8,000.00' SE = NC</p>	<p>-Y1A- PI Sta 15+85.57 Δ = 27' 33" 05.1" (LT) D = 5' 56" 14.6" L = 464.03' T = 236.59' R = 965.00' SE = .04 Ro = 100.00'</p>	<p>-Y1B- PI Sta 12+67.76 Δ = 3' 00" 55.4" (RT) D = 5' 56" 14.6" L = 522.37' T = 267.76' R = 965.00' SE = .08 Ro = 200.00'</p>
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NC GRID
NAD 83

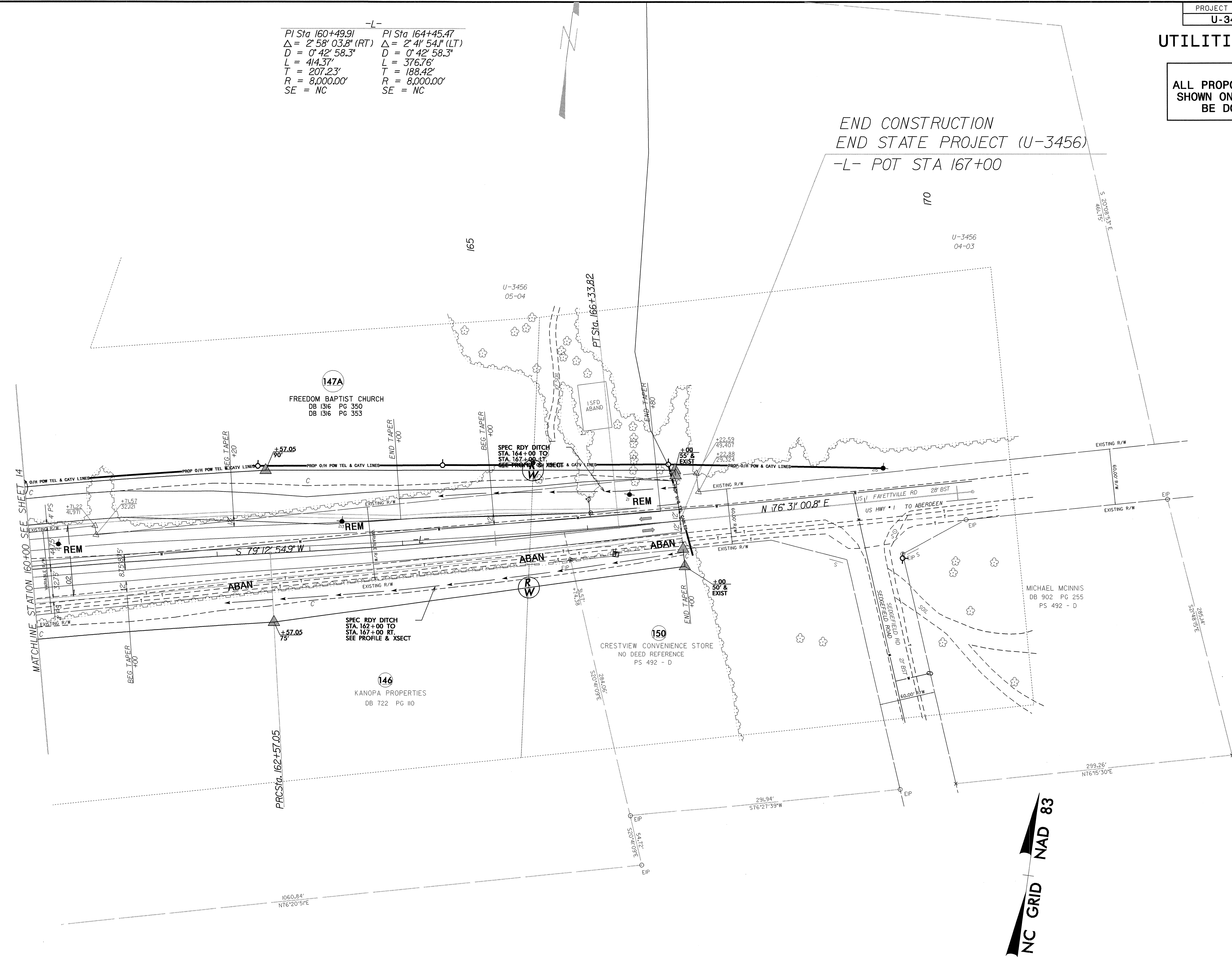
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 CSSSta. 145+58.45
 MATCHLINE STATION 160+00 SEE SHEET 15

UTILITIES BY OTHERS

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

-L-
 PI Sta 160+49.91 PI Sta 164+45.47
 $\Delta = 2' 58" 03.8" (RT)$ $\Delta = 2' 41" 54.1" (LT)$
 $D = 0' 42" 58.3"$ $D = 0' 42" 58.3"$
 $L = 414.37'$ $L = 376.76'$
 $T = 207.23'$ $T = 188.42'$
 $R = 8,000.00'$ $R = 8,000.00'$
 SE = NC SE = NC

END CONSTRUCTION
 END STATE PROJECT (U-3456)
 -L- POT STA 167+00



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 PLOT: U-3456-UT-15-U013-PSH.DGN
 PLOT DATE: 8/1/2007 14:33
 PLOT BY: YDH

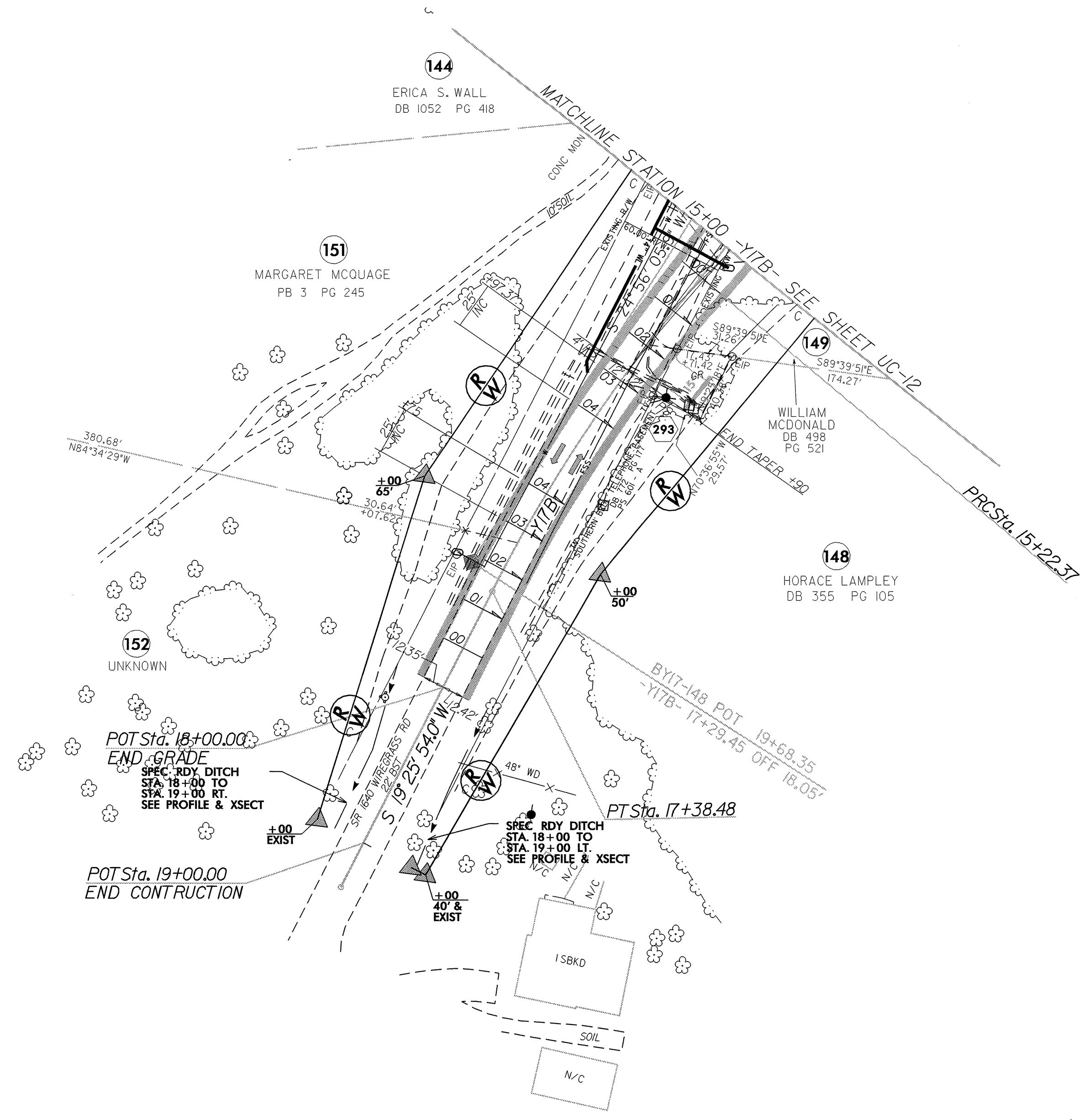
PS214510 8/1/2007 u3456 ut_15_u013_psh.dgn PS_Occ34dthend

UTILITIES BY OTHERS

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

-Y17B-
PI Sta 16+30.88
 $\Delta = 12^\circ 49' 52.5''$ (LT)
 $D = 5^\circ 56' 14.6''$
 $L = 216.1'$
 $T = 108.5'$
 $R = 965.00'$
 $Se = .04$
 $Ro = 100.00'$

-Y17B-

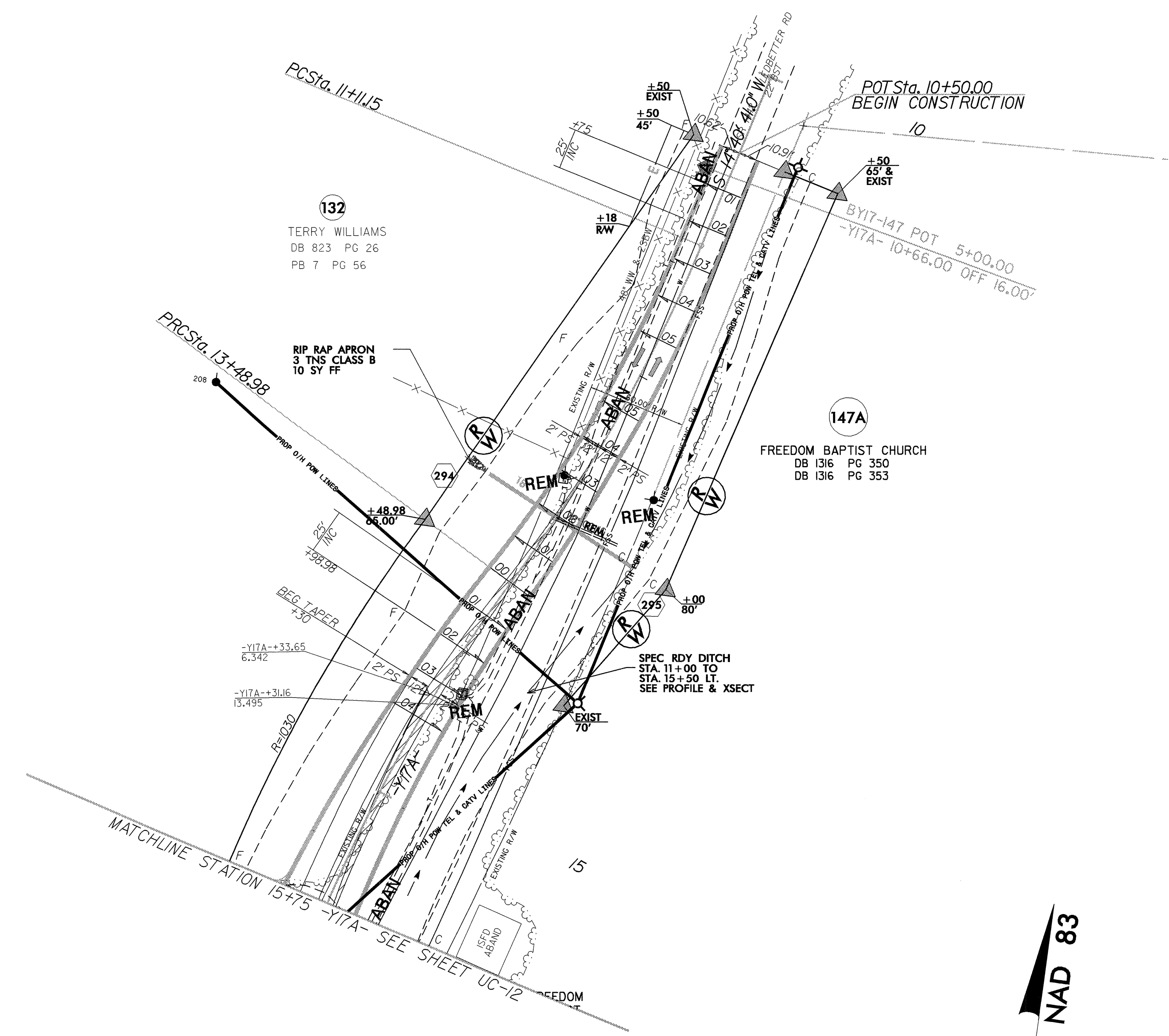


NC GRID NAD 83

-Y17A-
PI Sta 12+30.67
 $\Delta = 14^\circ 07' 15.2''$ (RT)
 $D = 5^\circ 56' 14.6''$
 $L = 237.83'$
 $T = 119.52'$
 $R = 965.00'$
 $Se = .05$
 $Ro = 125.00'$

-Y17A-
PI Sta 15+85.57
 $\Delta = 27^\circ 33' 05.1''$ (LT)
 $D = 5^\circ 56' 14.6''$
 $L = 464.03'$
 $T = 236.59'$
 $R = 965.00'$
 $Se = .04$
 $Ro = 100.00'$

-Y17A-



NC GRID NAD 83

5/14/99

01-AUG-2007 11:32
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