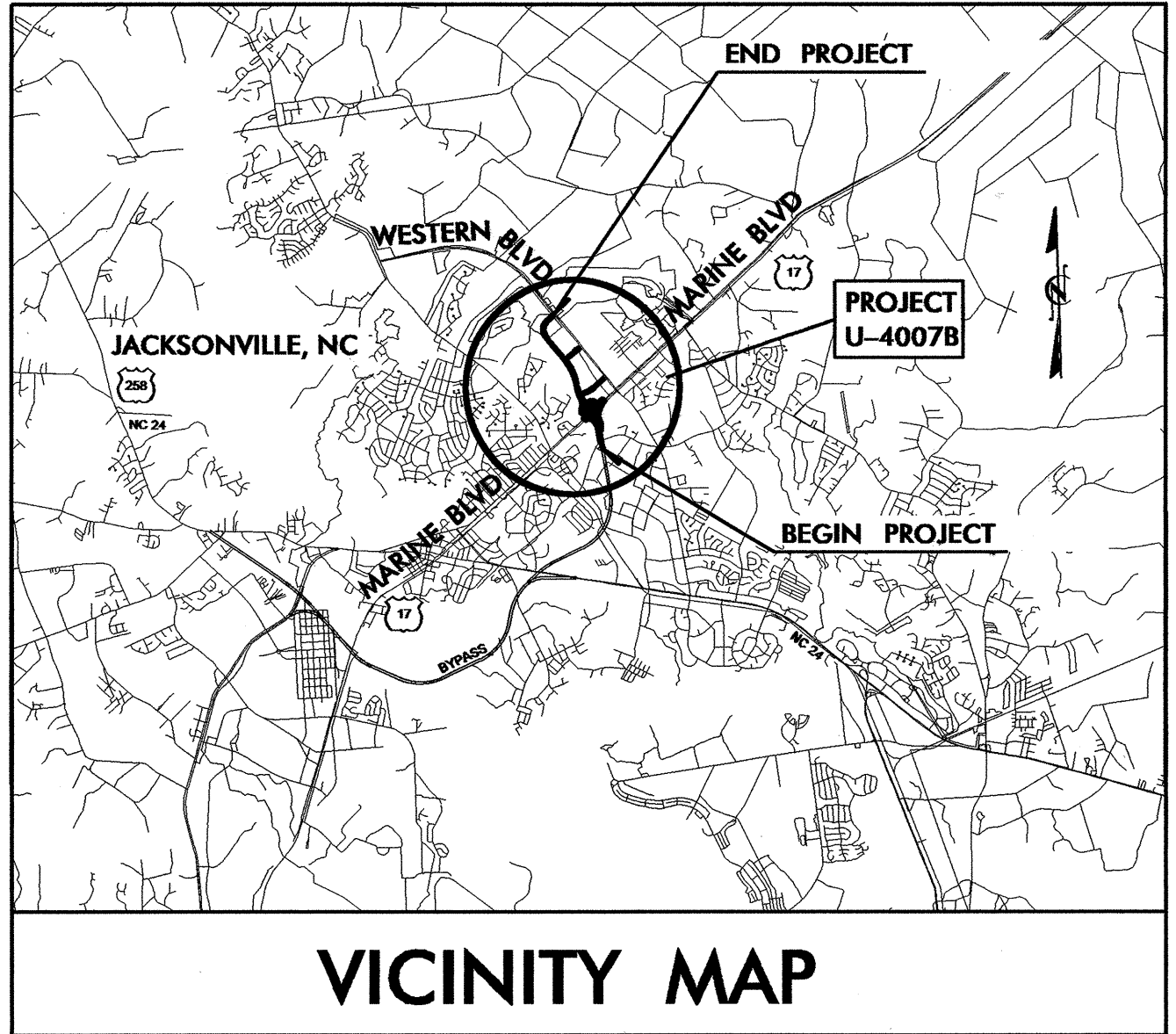
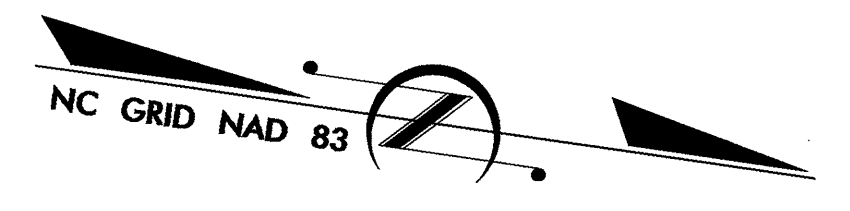


TIP PROJECT: U-4007B

T.I.P. NO.	SHEET NO.
U-4007B	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

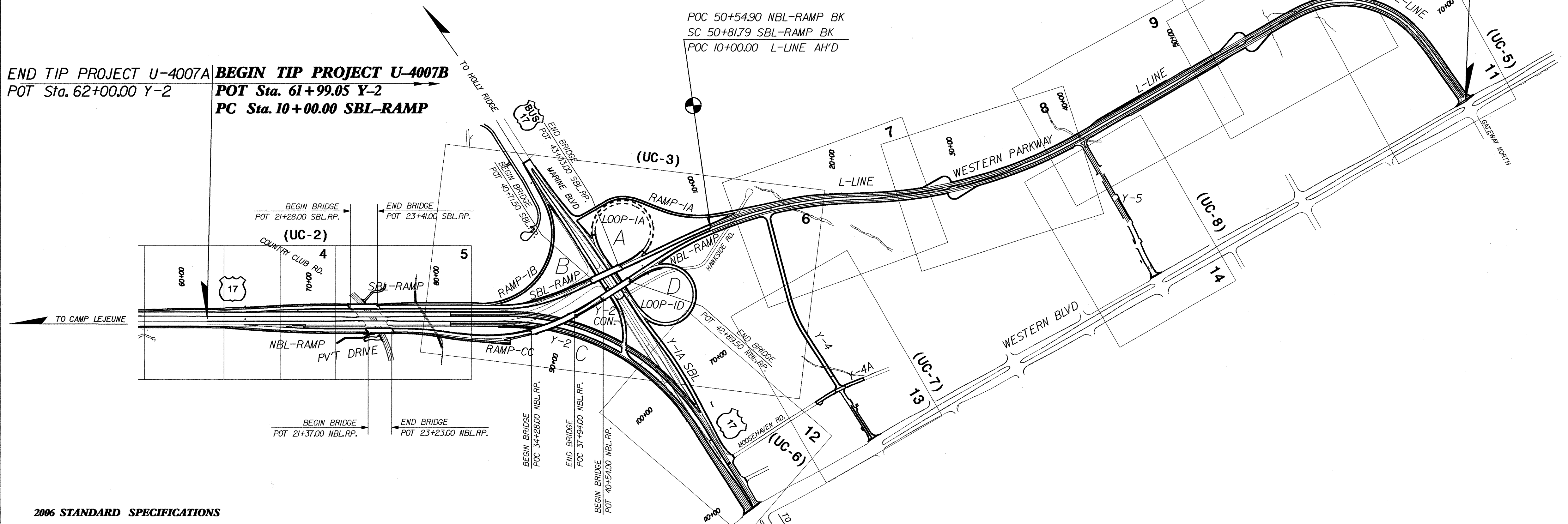
**UTILITY CONSTRUCTION PLANS
ON SLOW COUNTY**



**LOCATION: WESTERN PARKWAY FROM APPROXIMATELY 1300'
SOUTH OF COUNTRY CLUB DR. TO WESTERN BLVD.**

TYPE OF WORK: UTILITY RELOCATION

**END TIP PROJECT
POT Sta. 76+58.49 L-LINE**

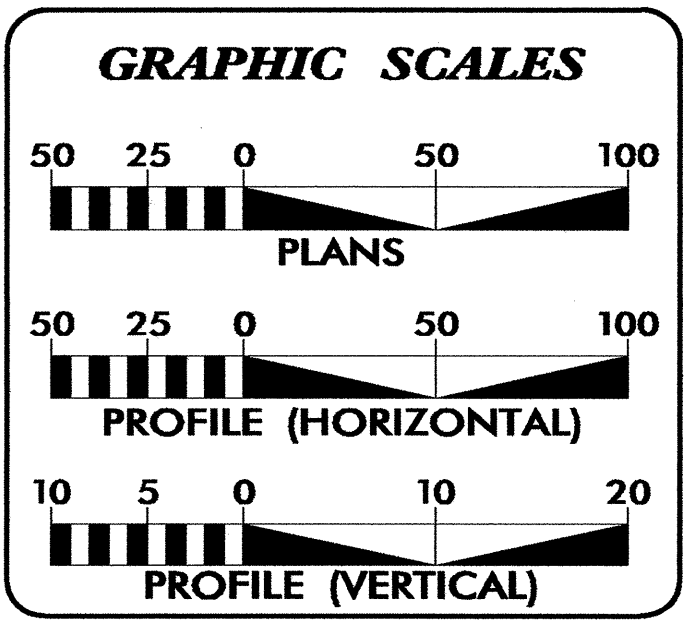


END TIP PROJECT U-4007A
POT Sta. 62+00.00 Y-2

BEGIN TIP PROJECT U-4007B
POT Sta. 61+99.05 Y-2
PC Sta. 10+00.00 SBL-RAMP

2006 STANDARD SPECIFICATIONS

- THIS PROJECT IS WITHIN THE JACKSONVILLE CITY LIMITS.
- THIS PROJECT IS A FULLY CONTROLLED ACCESS BEING LIMITED TO AN INTERCHANGE.
- CLEARING FOR THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

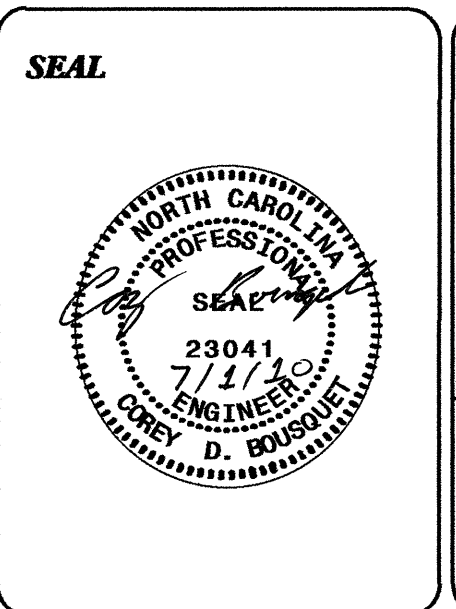


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-8	UTILITY CONSTRUCTION PLAN SHEETS
UC-9	PROFILE SHEET
UC-10	DETAILS SHEET

WATER AND SEWER OWNERS ON PROJECT

(1) CITY OF JACKSONVILLE - (WATER)
(2) CITY OF JACKSONVILLE - (SANITARY SEWER)



PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION**

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 250-4123
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan UTILITIES PROJECT DESIGNER

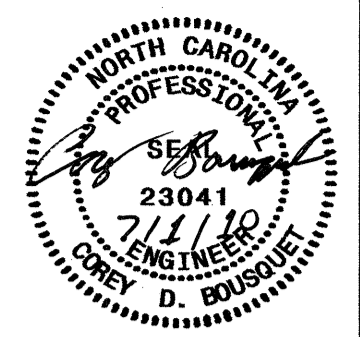
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5/14/09

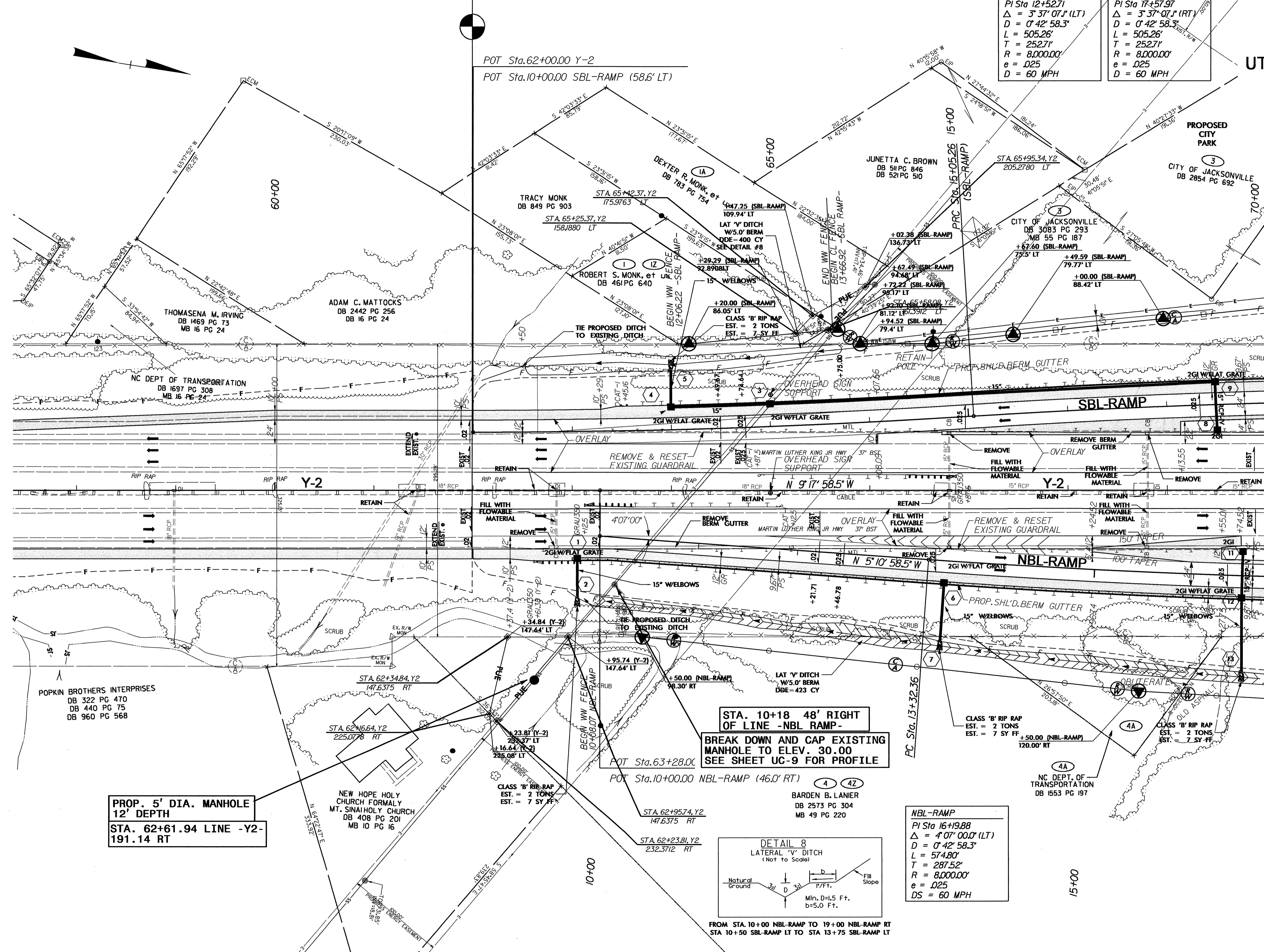
END PROJECT U-4007A
POT Sta. 62+00.00 (Y-2) BK

BEGIN PROJECT U-4007B
POT Sta. 61+99.05 (Y-2) AHD

PROJECT REFERENCE NO.		SHEET NO.
U-4007B		UC-2
DESIGNED BY: NSH		
DRAWN BY: NSH		
CHECKED BY: CDB		
APPROVED BY: CDB		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119		



7/1/09
D. BOUDREAU
ENGINEER

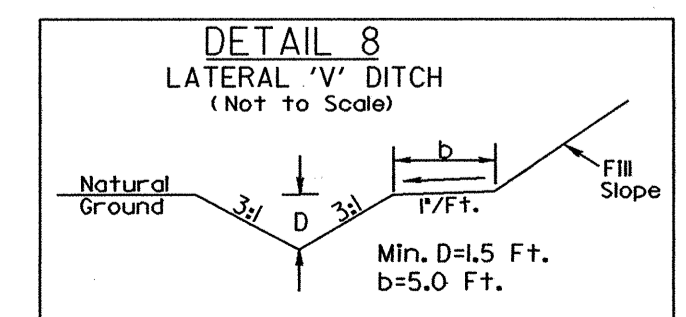


SBL-RAMP
PI Sta 12+52.71
 $\Delta = 3^{\circ}37'07.1$ (LT)
D = 0'42" 58.3"
L = 505.26'
T = 252.71'
R = 8,000.00'
e = .025
D = 60 MPH

SBL-RAMP
PI Sta 17+57.97
 $\Delta = 3^{\circ}37'07.1$ (RT)
D = 0'42" 58.3"
L = 505.26'
T = 252.71'
R = 8,000.00'
e = .025
D = 60 MPH

**PROP. 5' DIA. MANHOLE
12' DEPTH
STA. 62+61.94 LINE -Y2-
191.14 RT**

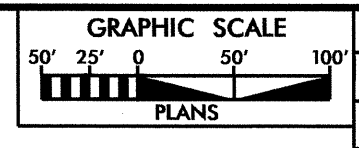
**STA. 10+18 48' RIGHT
OF LINE -NBL RAMP-
BREAK DOWN AND CAP EXISTING
MANHOLE TO ELEV. 30.00
SEE SHEET UC-9 FOR PROFILE**



NBL-RAMP
PI Sta 16+98.88
 $\Delta = 4^{\circ}07'00.0$ (LT)
D = 0'42" 58.3"
L = 574.80'
T = 287.52'
R = 8,000.00'
e = .025
DS = 60 MPH

MATCHLINE STA. 70+00.00

O:\utl\2010 19\07
 Utilities\Projects\U-4007b\U-4007b_U-4002.dgn
 \$\$\$\$11/18/09\$\$\$\$

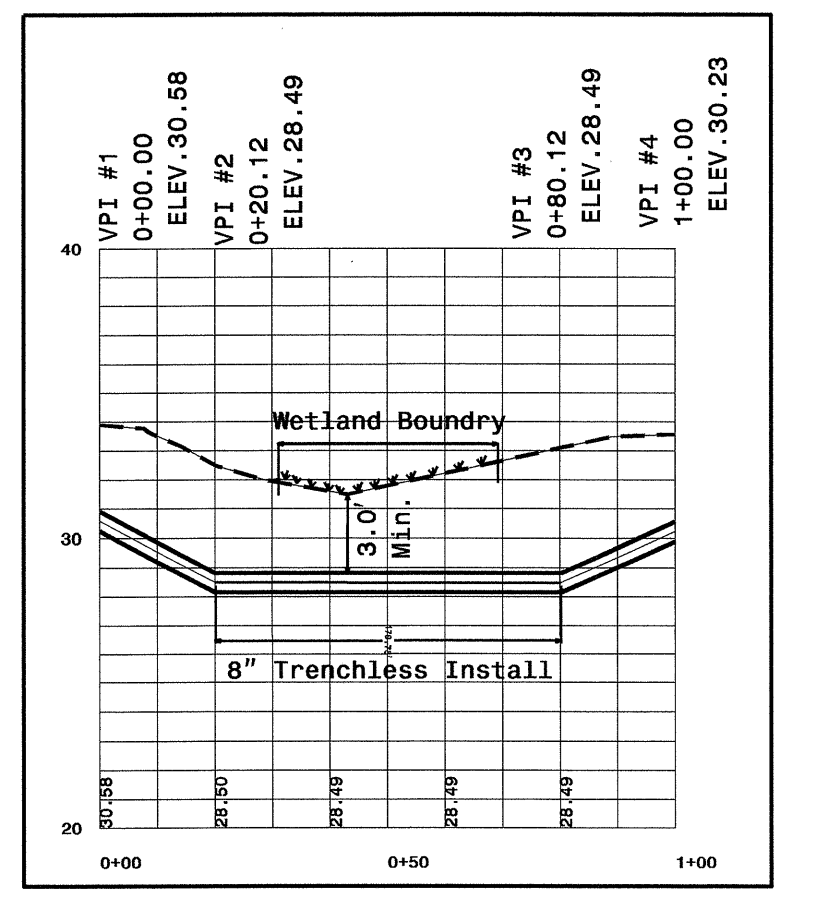
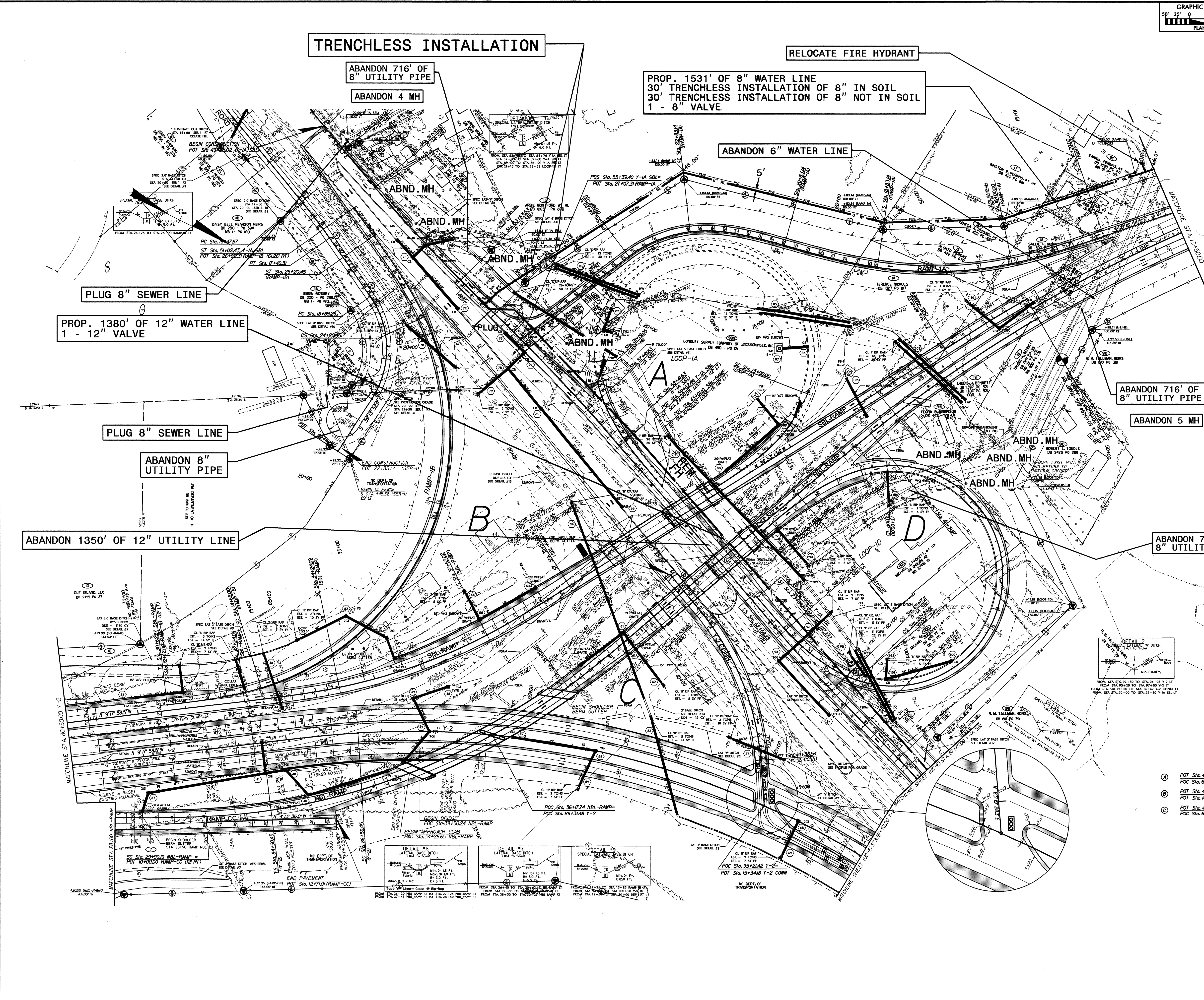


DESIGNED BY: NSH
DRAWN BY: NSH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919)250-4128
FAX: (919)250-4119



UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

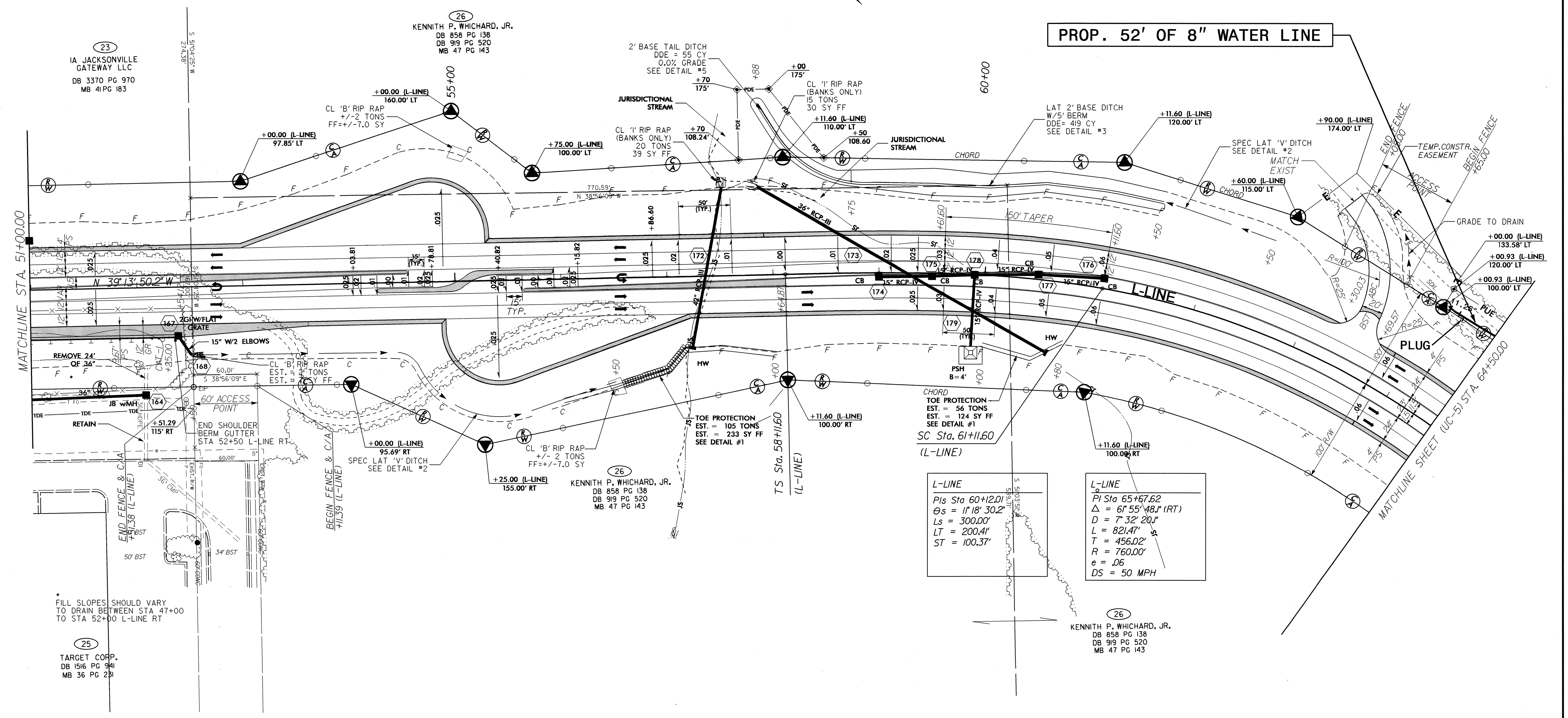


- ① POT Sta. 42+27.61 SBL-RAMP=
POC Sta. 60+35.83 Y-1A SBL
- ② POT Sta. 41+19.38 NBL-RAMP=
POT Sta. 10+42.83 Y-2 CONN
- ③ POT Sta. 42+15.92 NBL-RAMP=
POC Sta. 61+59.28 Y-1A SBL

5/14/99
01-JUL-2010 15:02
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C:\Users\jrb\Documents\Projects\U-4007b_U-4007b.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-4007B	UC-4
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISER:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



PROP. 52' OF 8" WATER LINE

L-LINE
 PIs Sta 60+12.01
 $\Delta = 118' 30.2"$
 $L_s = 300.00'$
 $L = 200.41'$
 $ST = 100.37'$

L-LINE
 PI Sta 65+67.62
 $\Delta = 61' 55' 48.1" (RT)$
 $L_s = 7' 32' 20.1"$
 $L = 821.47'$
 $T = 456.02'$
 $R = 760.00'$
 $e = .06$
 $DS = 50 MPH$

23
 IA JACKSONVILLE GATEWAY LLC
 DB 3370 PG 970
 MB 41 PG 183

26
 KENNETH P. WHICHARD, JR.
 DB 858 PG 138
 DB 919 PG 520
 MB 47 PG 143

26
 KENNETH P. WHICHARD, JR.
 DB 858 PG 138
 DB 919 PG 520
 MB 47 PG 143

26
 KENNETH P. WHICHARD, JR.
 DB 858 PG 138
 DB 919 PG 520
 MB 47 PG 143

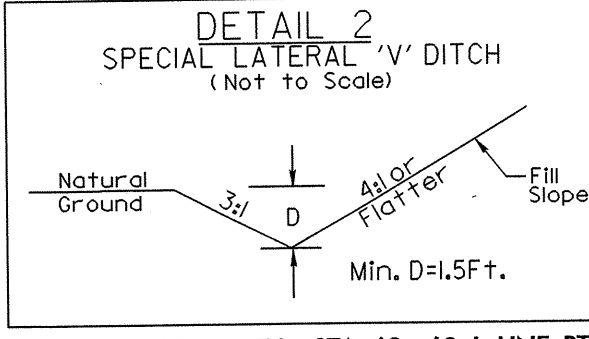
25
 TARGET CORP.
 DB 1516 PG 941
 MB 36 PG 281

FILL SLOPES SHOULD VARY TO DRAIN BETWEEN STA 47+00 TO STA 52+00 L-LINE RT

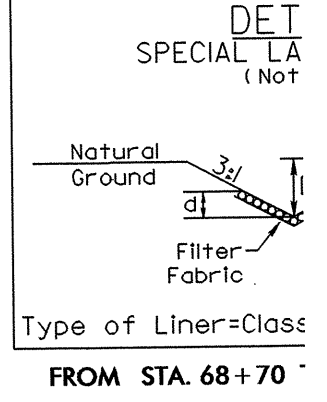
5/14/99

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UTILITY CONSTRUCTION



FROM STA. 66+50 TO STA. 68+60 L-LINE RT
 FROM STA. 69+50 TO STA. 71+50 L-LINE RT



TRENCHLESS INSTALLATION

EXIST. 4' DIA. MANHOLE A1
 STA. 0+00.00, LINE 1
 STA. 68+74.64 LINE -L-
 OFFSET 122.82 LT

L-LINE
 P1 Sta 65+61
 $\Delta = 61' 55"$
 $D = 7' 32" E$
 $L = 821.47'$
 $T = 456.02'$
 $R = 760.00'$
 $e = .06$
 $DS = 50 MPH$

RELOCATE FIRE HYDRANT
 $LI = 200.41'$
 $ST = 100.37'$

PROP. 245' OF 8" DI
 SANITARY GRAVITY SEWER LINE

PROP. 1255' OF 8" WATER LINE
 30' TRENCHLESS INSTALLATION OF 8" IN SOIL
 30' TRENCHLESS INSTALLATION OF 8" NOT IN SOIL

PROP. 4' DIA. MANHOLE B1
 STA. 2+45, LINE 1
 STA. 68+14.72 LINE -L-
 OFFSET 115.41 RT

PROP 8" SANITARY
 GRAVITY SEWER LINE
 TO BE INSTALLED BY
 OTHERS

RELOCATE
 FIRE HYDRANT

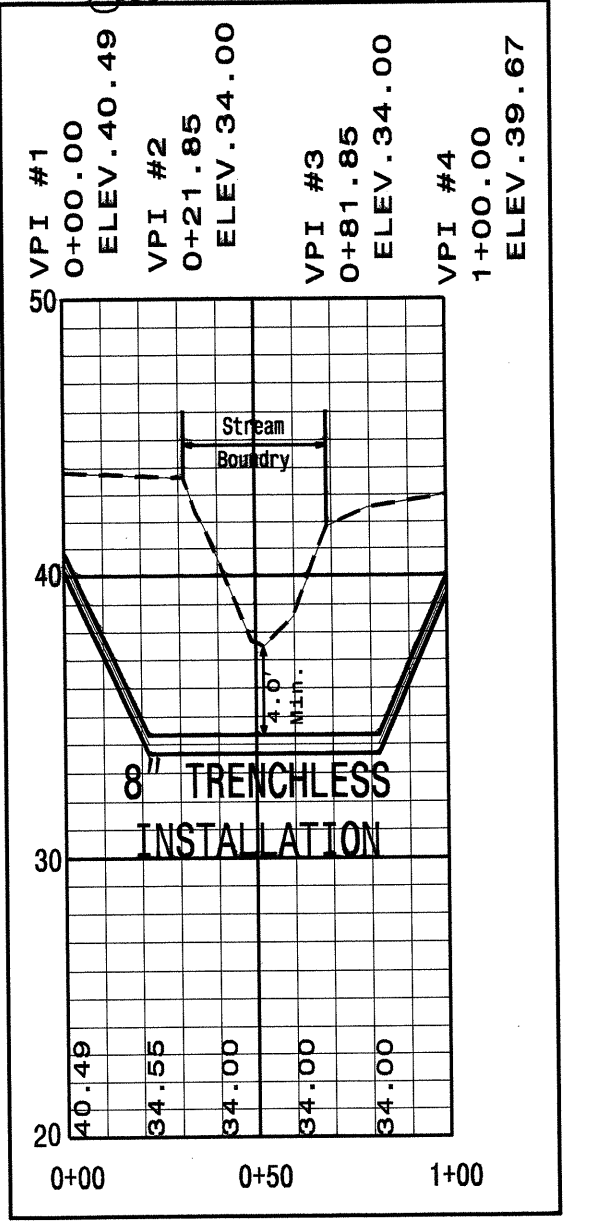
8" TAPPING
 VALVE & SLEEVE

RELOCATE FH
 USE 6" TAPPING
 VALVE & SLEEVE

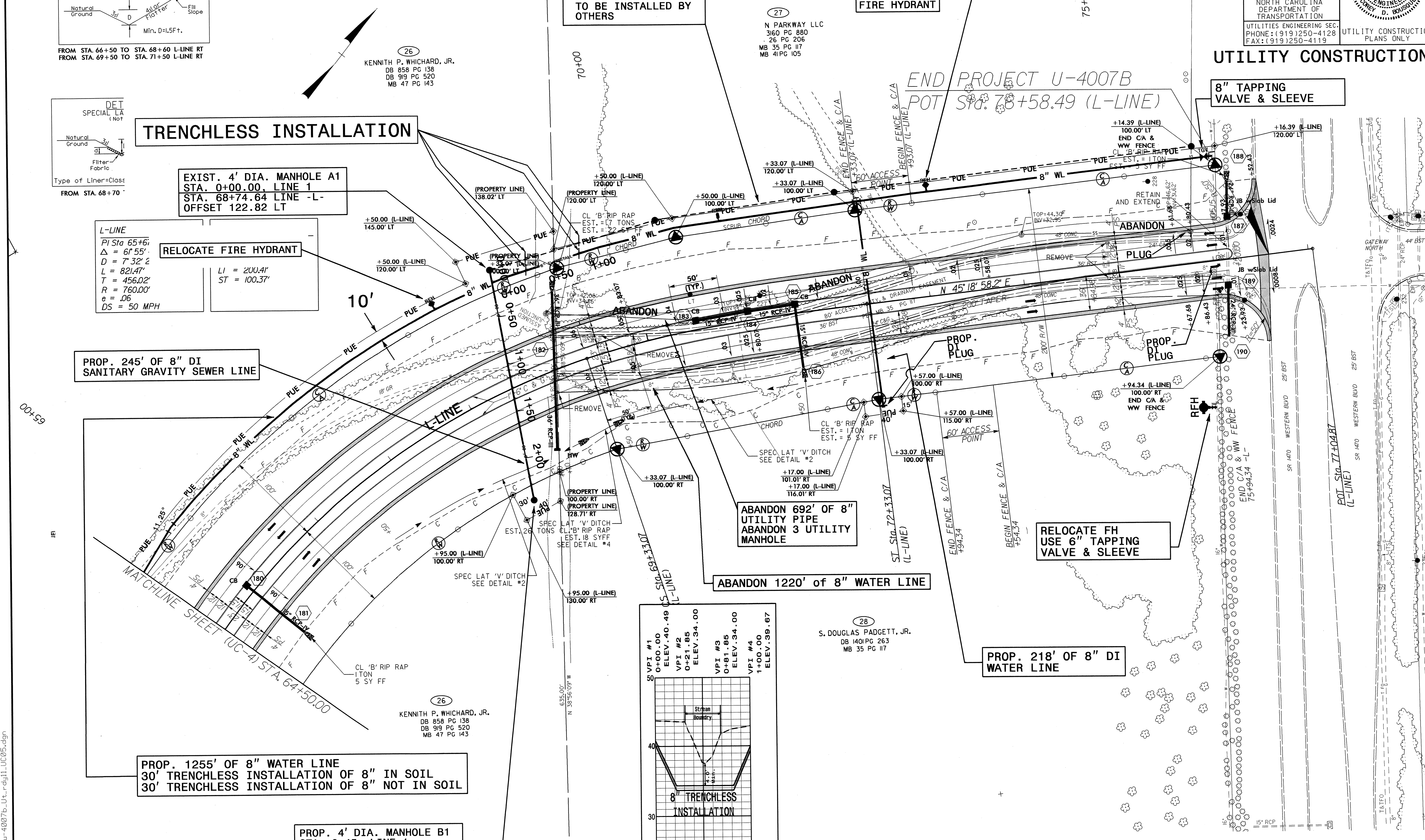
PROP. 218' OF 8" DI
 WATER LINE

ABANDON 692' OF 8"
 UTILITY PIPE
 ABANDON 3 UTILITY
 MANHOLE

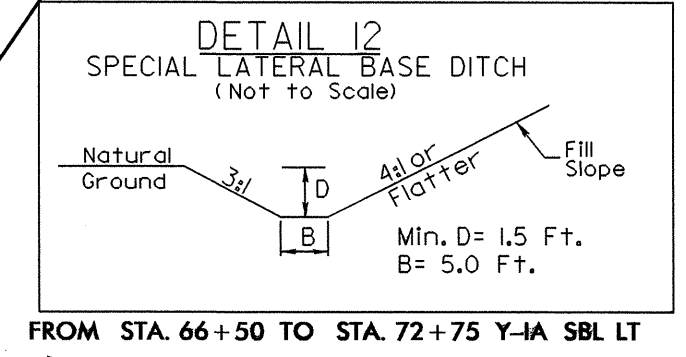
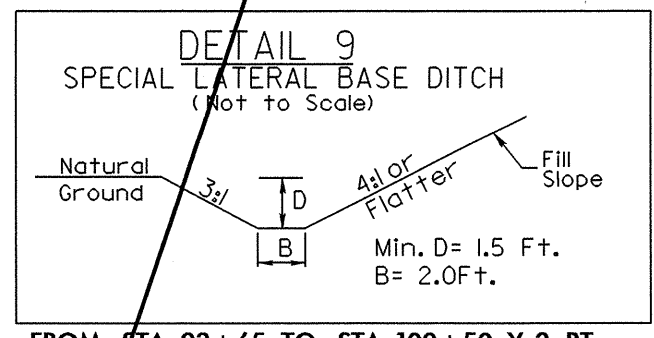
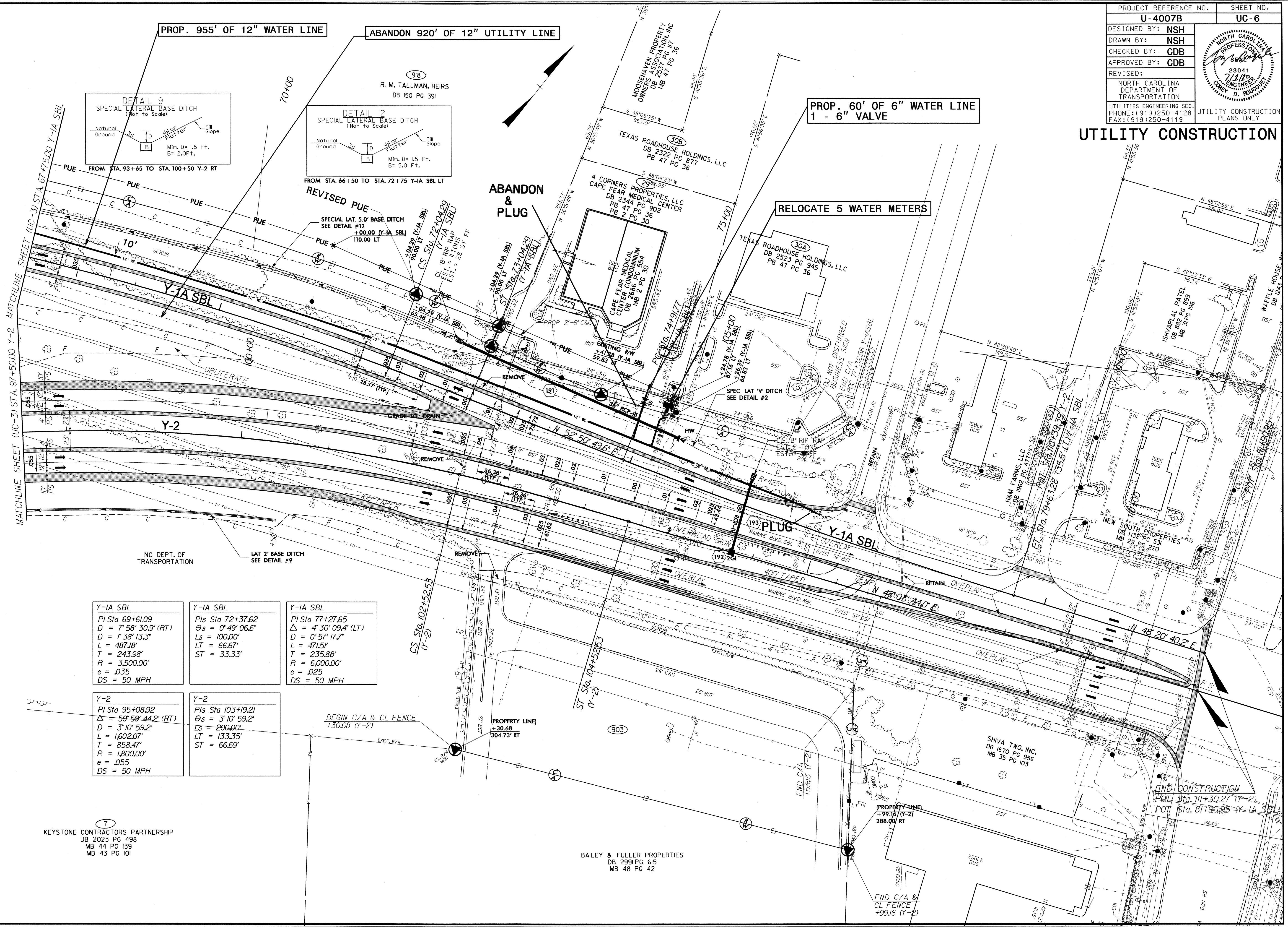
ABANDON 1220' OF 8" WATER LINE



5/14/09
 30-AUG-2010 12:28
 U-4007b-ut-r.dwg UC05.dgn
 11/11/10 11:11 AM



UTILITY CONSTRUCTION



<p>Y-1A SBL</p> <p>PI Sta 69+61.09 D = 7' 58" 30.9" (RT) D = 1' 38" 13.3" L = 487.18' T = 243.98' R = 3,500.00' e = .035 DS = 50 MPH</p>	<p>Y-1A SBL</p> <p>PIs Sta 72+37.62 Os = 0' 49' 06.6" Ls = 100.00' LT = 66.67' ST = 33.33'</p>	<p>Y-1A SBL</p> <p>PI Sta 77+27.65 Δ = 4' 30" 09.4" (LT) D = 0' 57" 17.7" L = 471.5' T = 235.88' R = 6,000.00' e = .025 DS = 50 MPH</p>
<p>Y-2</p> <p>PI Sta 95+08.92 Δ = 50' 59" 44.2" (RT) D = 3' 10" 59.2" L = 1,602.07' T = 858.47' R = 1,800.00' e = .055 DS = 50 MPH</p>	<p>Y-2</p> <p>PIs Sta 103+19.21 Os = 3' 10" 59.2" Ls = 200.00' LT = 133.35' ST = 66.69'</p>	

7
KEYSTONE CONTRACTORS PARTNERSHIP
DB 2023 PG 498
MB 44 PG 139
MB 43 PG 101

BAILEY & FULLER PROPERTIES
DB 2991 PG 615
MB 48 PG 42

END CONSTRUCTION
POT Sta. 111+30.27 (Y-2)
POT Sta. 87+90.95 (Y-1A SBL)

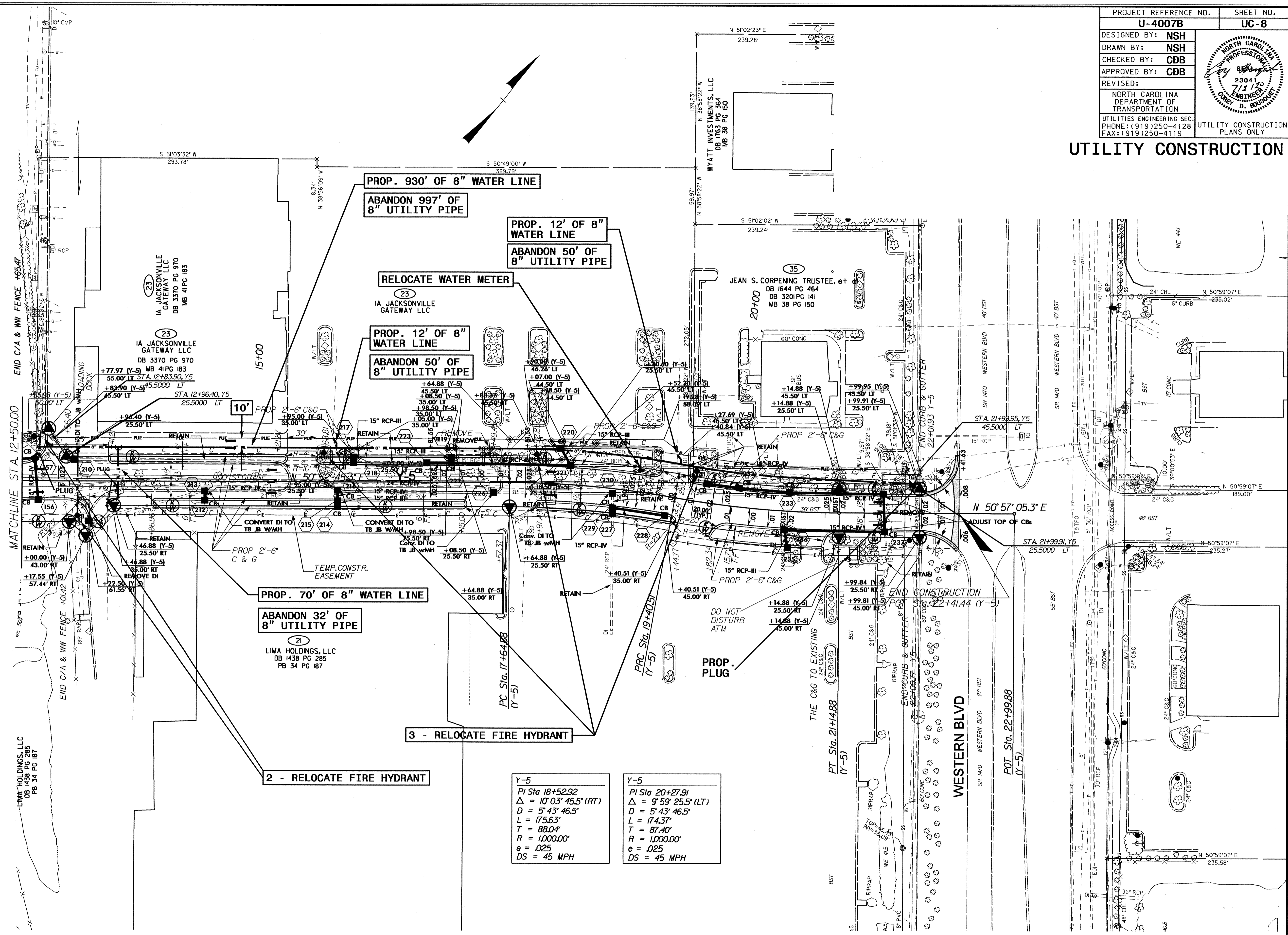
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-4007B	UC-8
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



PROP. 930' OF 8" WATER LINE

ABANDON 997' OF 8" UTILITY PIPE

PROP. 12' OF 8" WATER LINE

ABANDON 50' OF 8" UTILITY PIPE

RELOCATE WATER METER

PROP. 12' OF 8" WATER LINE

ABANDON 50' OF 8" UTILITY PIPE

PROP. 70' OF 8" WATER LINE

ABANDON 32' OF 8" UTILITY PIPE

3 - RELOCATE FIRE HYDRANT

2 - RELOCATE FIRE HYDRANT

Y-5
 PI Sta 18+52.92
 $\Delta = 10' 03' 45.5" (RT)$
 $D = 5' 43' 46.5"$
 $L = 175.63'$
 $T = 88.04'$
 $R = 1,000.00'$
 $e = .025$
 $DS = 45 MPH$

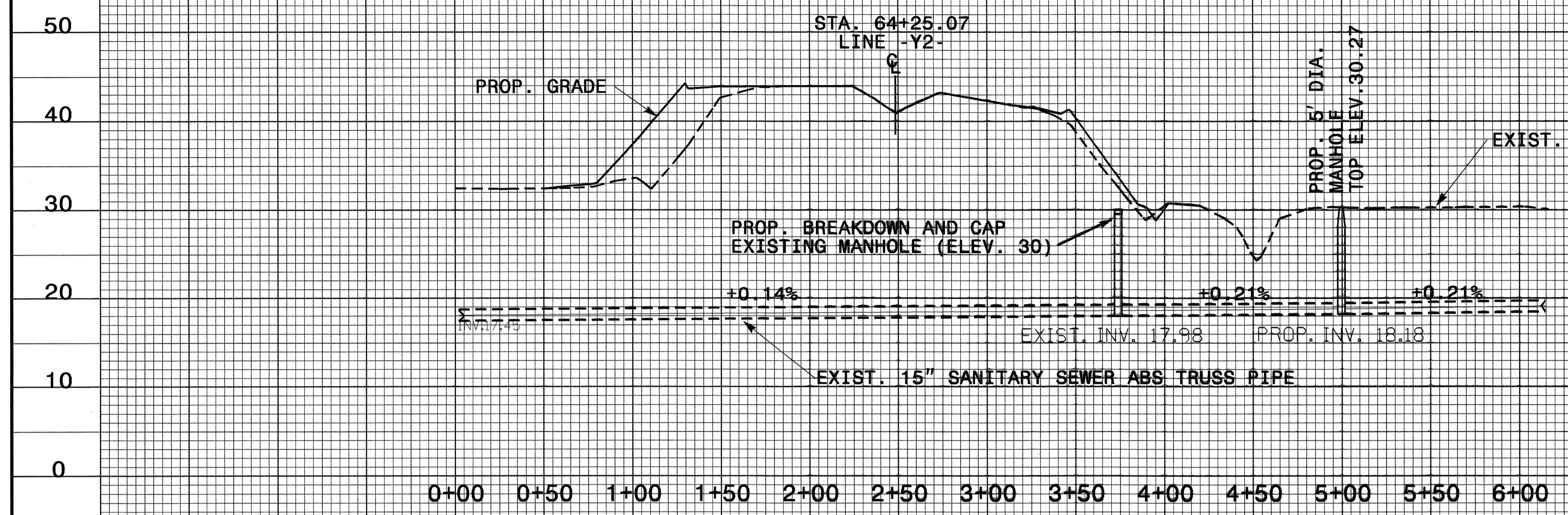
Y-5
 PI Sta 20+27.91
 $\Delta = 9' 59' 25.5" (LT)$
 $D = 5' 43' 46.5"$
 $L = 174.37'$
 $T = 87.40'$
 $R = 1,000.00'$
 $e = .025$
 $DS = 45 MPH$

01-111-2010 1913
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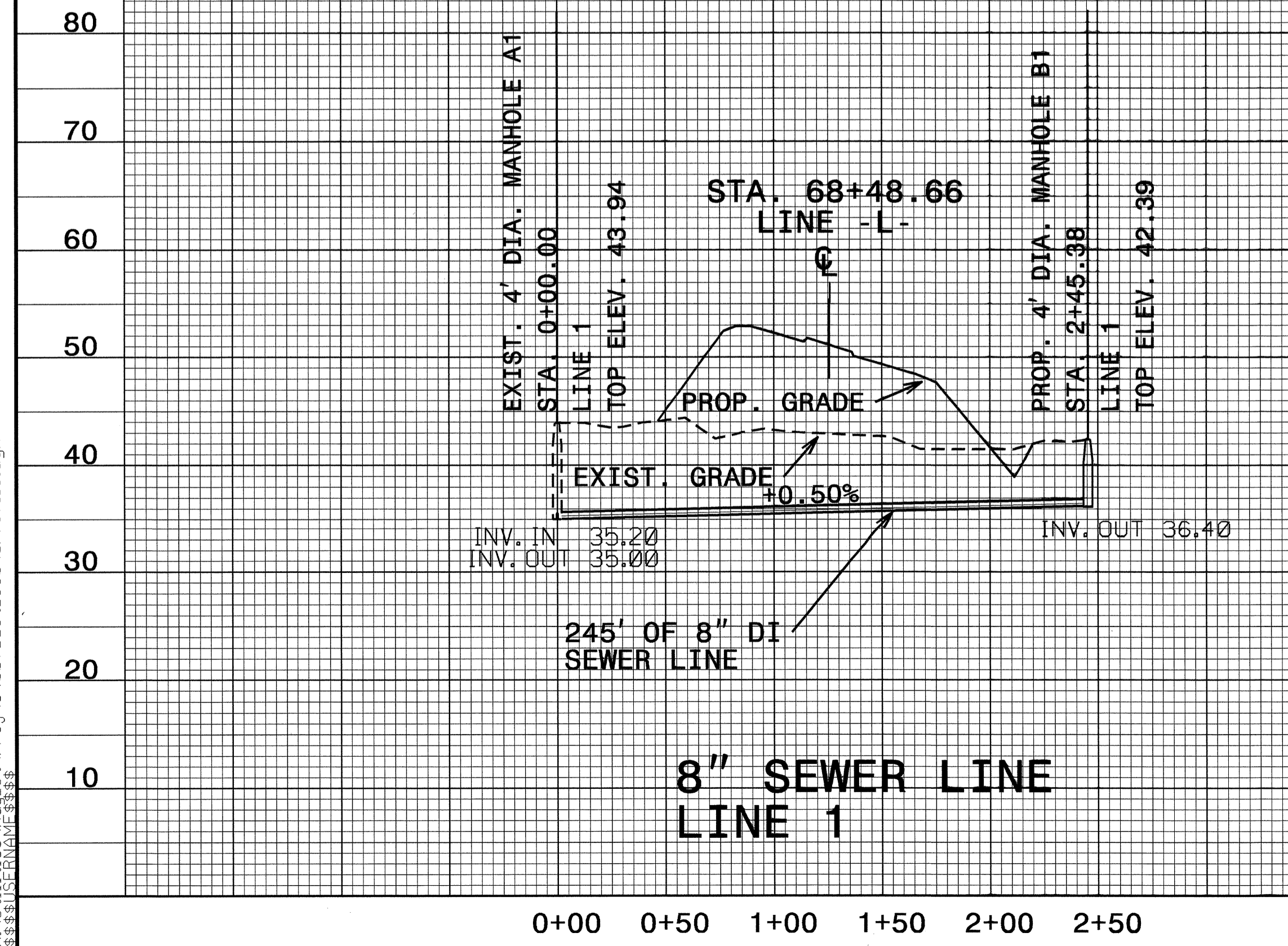
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PROJECT REFERENCE NO. U-4007B	SHEET NO. UC-9
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



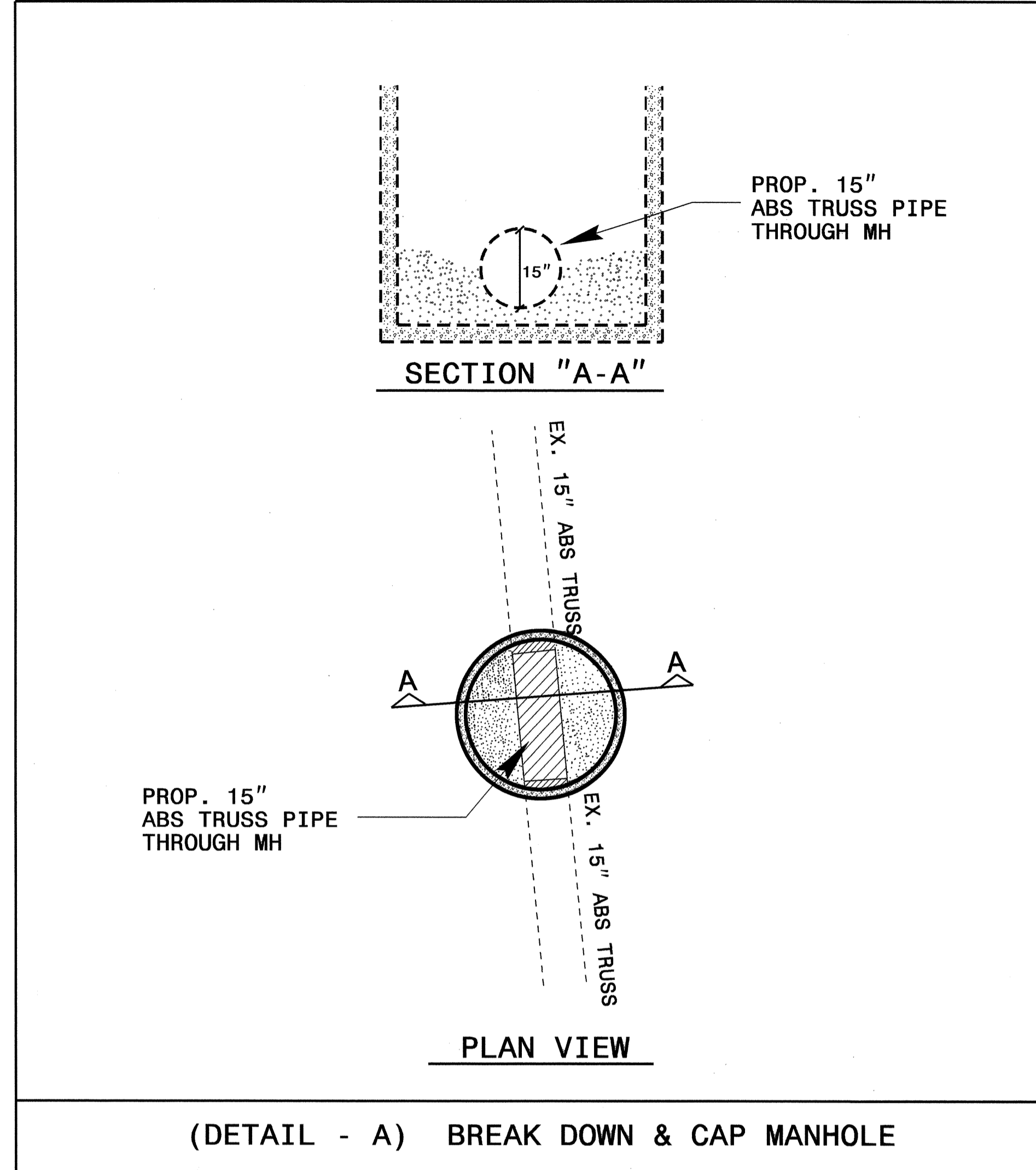
BREAK DOWN AND REBUILD MANHOLE PROFILE



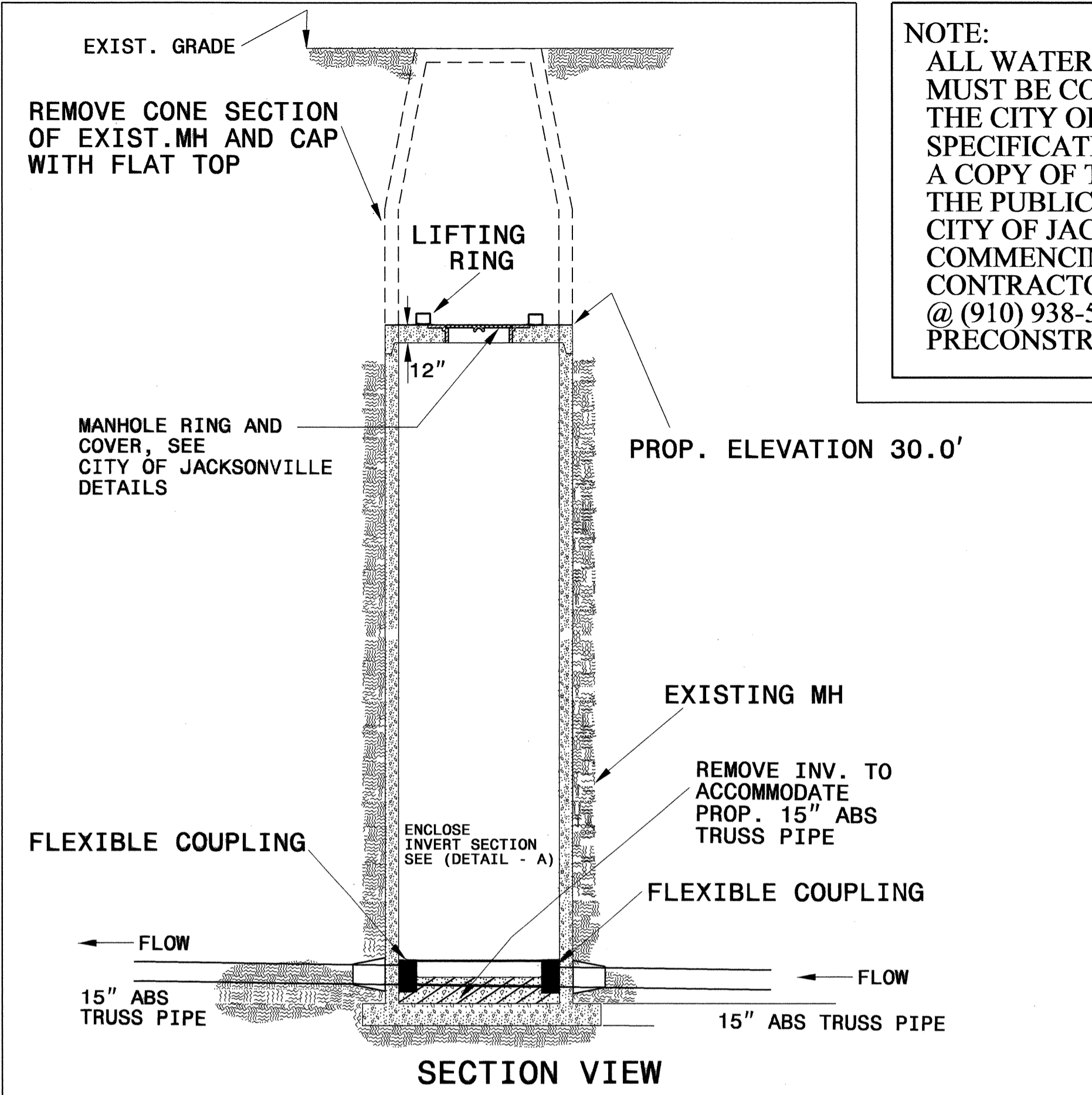
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UTILITY CONSTRUCTION

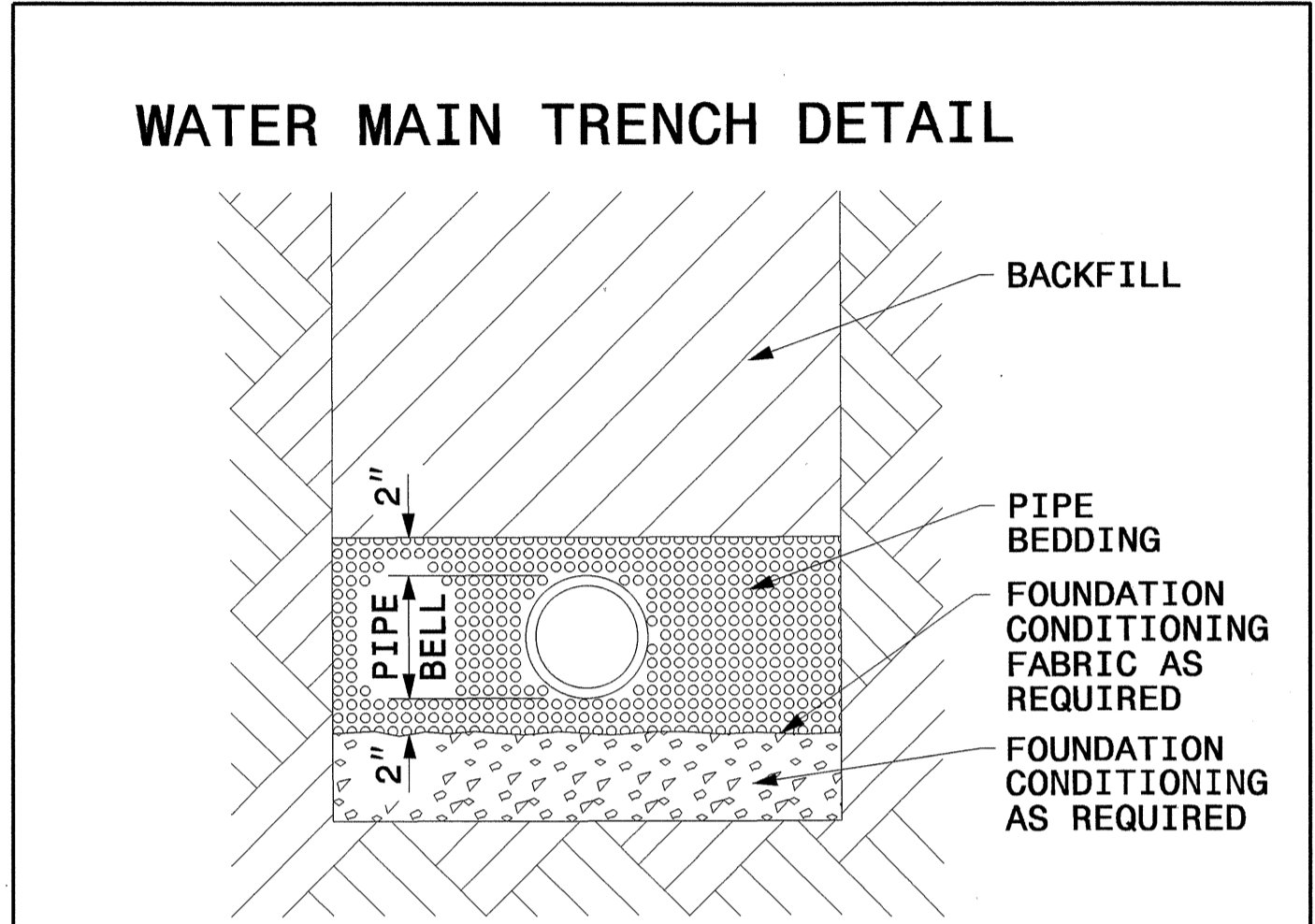
NOTE:
 ALL WATER AND SEWER CONSTRUCTION MUST BE COMPLETED IN ACCORDANCE WITH THE CITY OF JACKSONVILLE MANUAL OF SPECIFICATIONS, STANDARDS, AND DESIGN. A COPY OF THIS MANUAL IS AVAILABLE IN THE PUBLIC SERVICES DEPARTMENT AT THE CITY OF JACKSONVILLE CITY HALL. PRIOR TO COMMENCING UTILITY CONSTRUCTION THE CONTRACTOR SHALL CONTACT MICHAEL MOORE @ (910) 938-5249 AND SCHEDULE A PRECONSTRUCTION CONFERENCE.



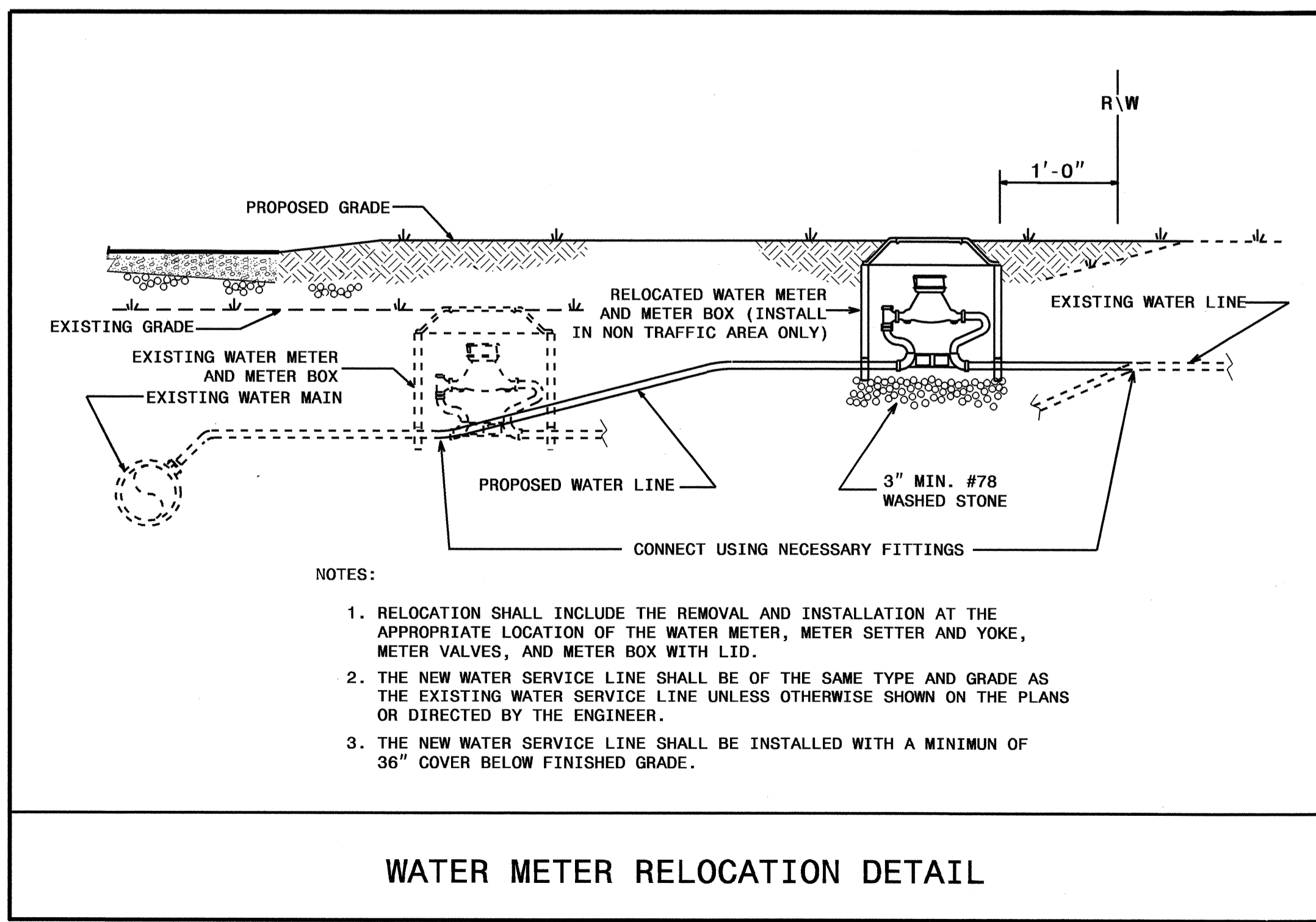
(DETAIL - A) BREAK DOWN & CAP MANHOLE



BREAK DOWN AND REBUILD MANHOLE WITH PRECAST FLAT TOP AND WATER TIGHT RING AND COVER

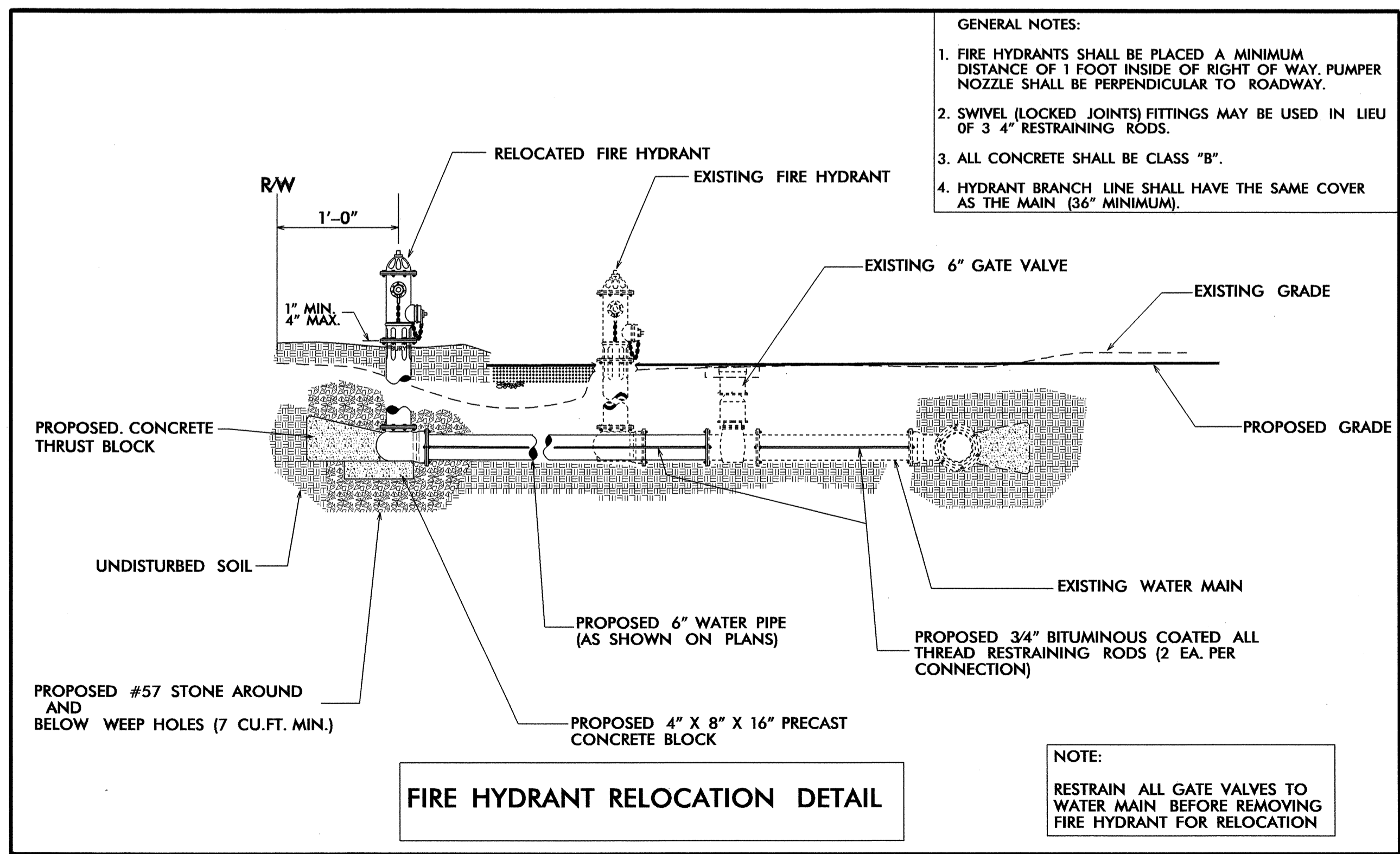


PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL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



- 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



- GENERAL NOTES:**
1. FIRE HYDRANTS SHALL BE PLACED A MINIMUM DISTANCE OF 1 FOOT INSIDE OF RIGHT OF WAY. PUMPER NOZZLE SHALL BE PERPENDICULAR TO ROADWAY.
 2. SWIVEL (LOCKED JOINTS) FITTINGS MAY BE USED IN LIEU OF 3/4" RESTRAINING RODS.
 3. ALL CONCRETE SHALL BE CLASS "B".
 4. HYDRANT BRANCH LINE SHALL HAVE THE SAME COVER AS THE MAIN (36" MINIMUM).

NOTE:
 RESTRAIN ALL GATE VALVES TO WATER MAIN BEFORE REMOVING FIRE HYDRANT FOR RELOCATION

FIRE HYDRANT RELOCATION DETAIL

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

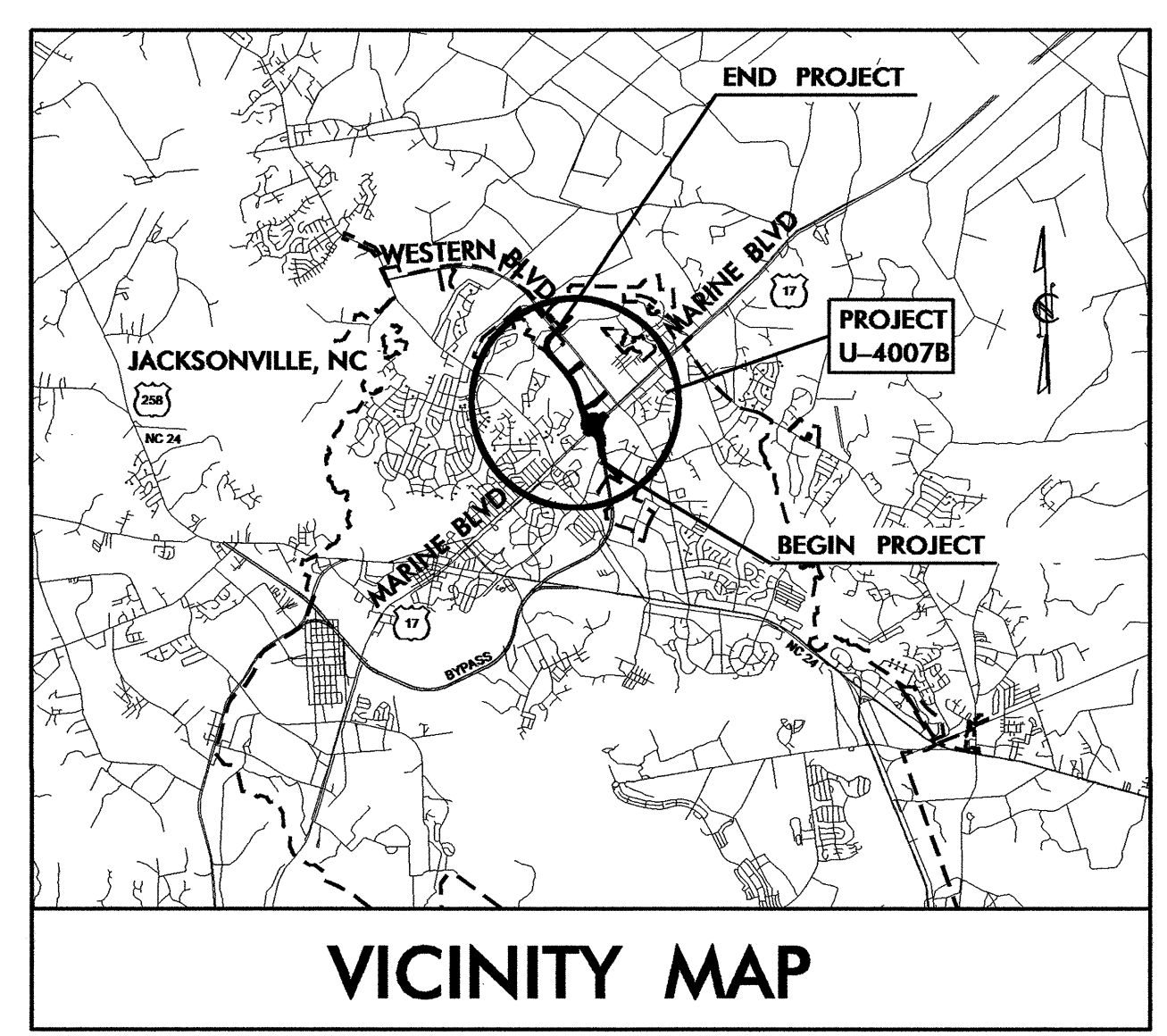
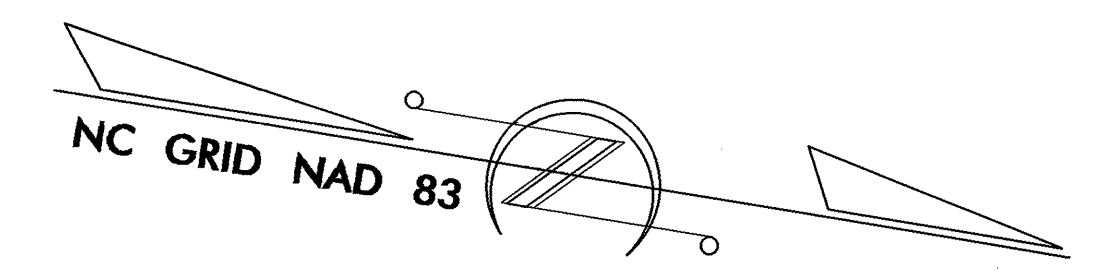
09/28/09

TIP PROJECT: U-4007B

T.I.P. NO.	SHEET NO.
U-4007B	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
ON SLOW COUNTY

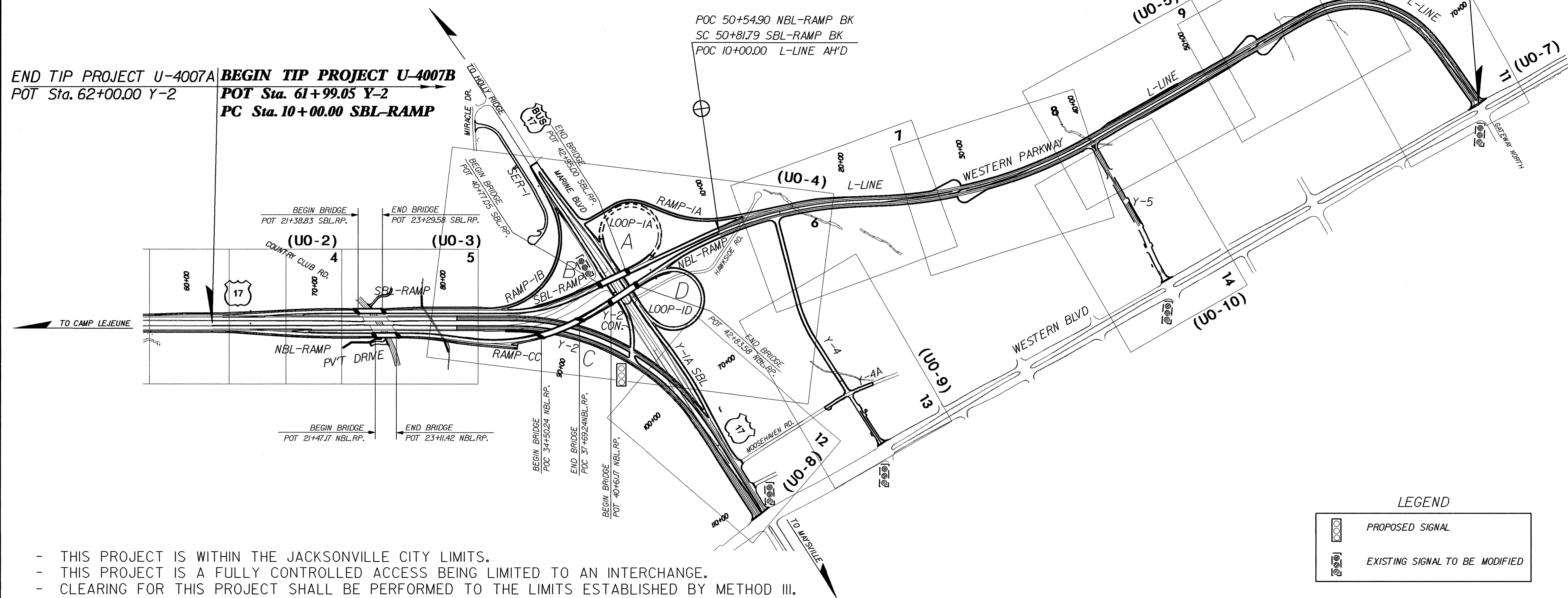


VICINITY MAP

LOCATION: WESTERN PARKWAY FROM APPROXIMATELY 1300' SOUTH OF COUNTRY CLUB RD. TO WESTERN BLVD.

TYPE OF WORK: UTILITIES RELOCATION

END TIP PROJECT U-4007B
POT Sta. 76+58.49 L-LINE



END TIP PROJECT U-4007A
POT Sta. 62+00.00 Y-2

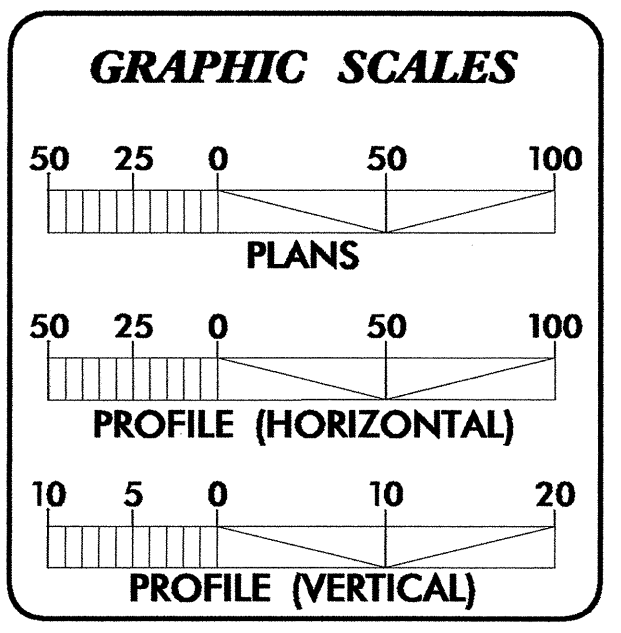
BEGIN TIP PROJECT U-4007B
POT Sta. 61+99.05 Y-2
PC Sta. 10+00.00 SBL-RAMP

POC 50+54.90 NBL-RAMP BK
SC 50+81.79 SBL-RAMP BK
POC 10+00.00 L-LINE AH'D

LEGEND

	PROPOSED SIGNAL
	EXISTING SIGNAL TO BE MODIFIED

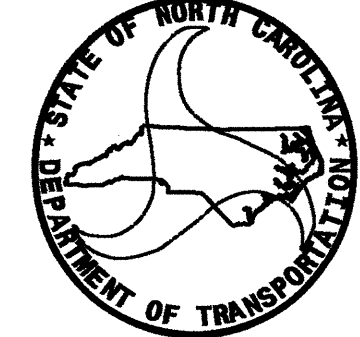
- THIS PROJECT IS WITHIN THE JACKSONVILLE CITY LIMITS.
- THIS PROJECT IS A FULLY CONTROLLED ACCESS BEING LIMITED TO AN INTERCHANGE.
- CLEARING FOR THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-10	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT
- (1) Progress Energy Carolinas, Inc. - (Power)
 - (2) Jones-Onslow EMC - (Power)
 - (3) CenturyLink - (Telephone)
 - (4) Time Warner Cable - (CATV)
 - (5) Piedmont Natural Gas Company - (Gas)
 - (6) John Pierce - Private line - (Sewer)



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 258-4128
FAX (919) 258-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan UTILITIES PROJECT DESIGNER

I:\SEP-2010_09\25
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 \$\$\$USERNAME\$\$\$

UTILITIES BY OTHERS

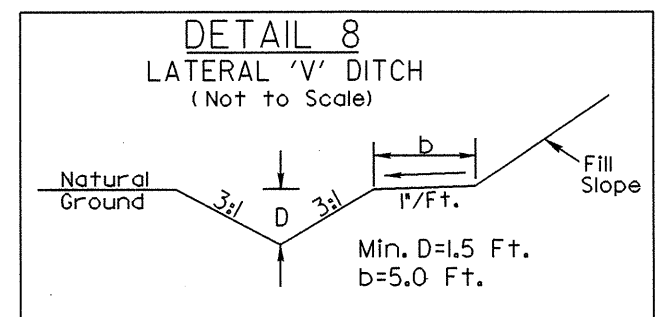
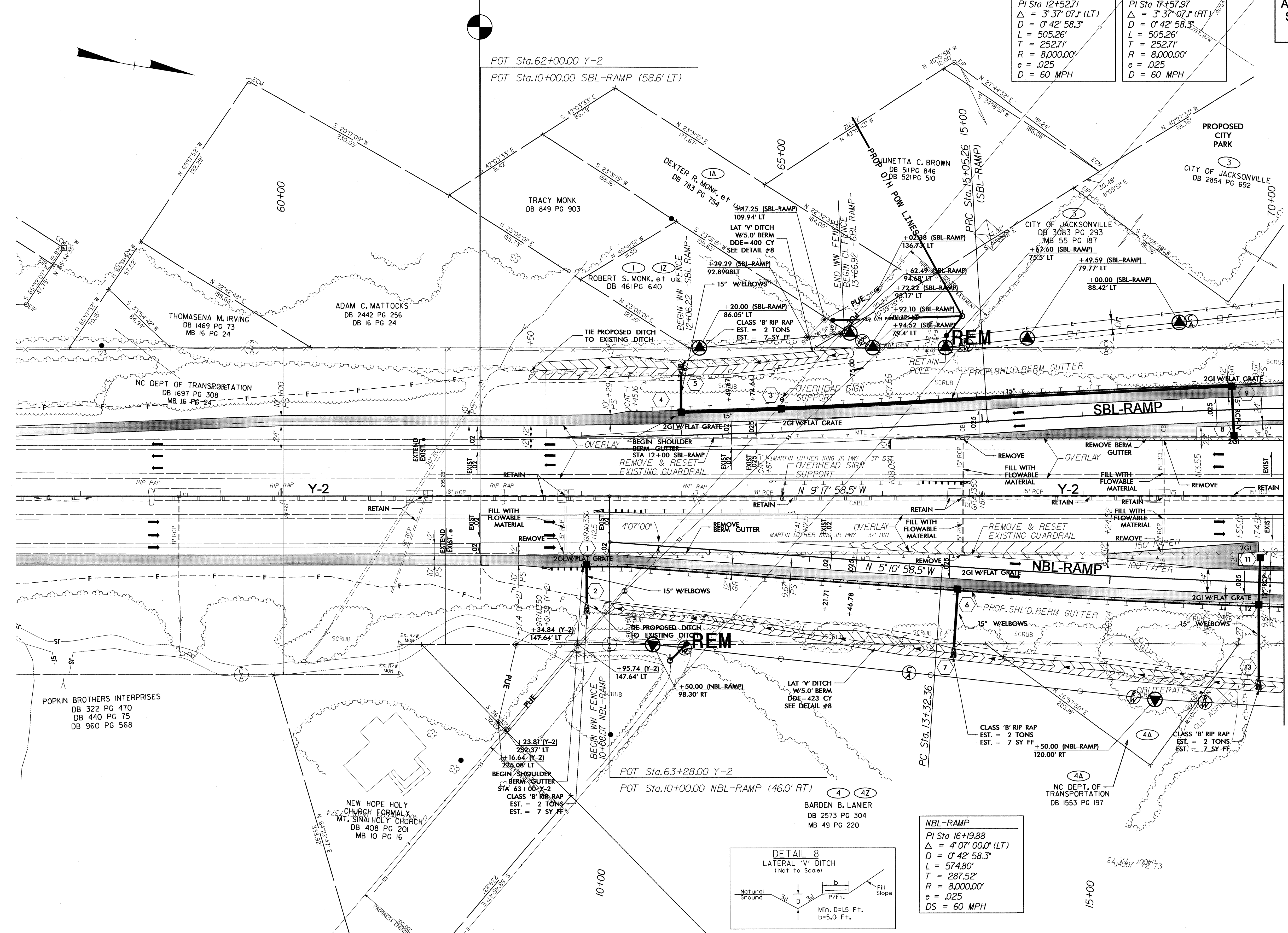
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

END PROJECT U-4007A
POT Sta. 62+00.00 (Y-2) BK

BEGIN PROJECT U-4007B
POT Sta. 61+99.05 (Y-2) AHD

SBL-RAMP
PI Sta 12+52.71
 $\Delta = 3^{\circ} 37' 07.1''$ (LT)
D = 0' 42' 58.3"
L = 505.26'
T = 252.71'
R = 8,000.00'
e = .025
D = 60 MPH

SBL-RAMP
PI Sta 17+57.97
 $\Delta = 3^{\circ} 37' 07.1''$ (RT)
D = 0' 42' 58.3"
L = 505.26'
T = 252.71'
R = 8,000.00'
e = .025
D = 60 MPH



NBL-RAMP
PI Sta 16+19.88
 $\Delta = 4^{\circ} 07' 00.0''$ (LT)
D = 0' 42' 58.3"
L = 574.80'
T = 287.52'
R = 8,000.00'
e = .025
DS = 60 MPH

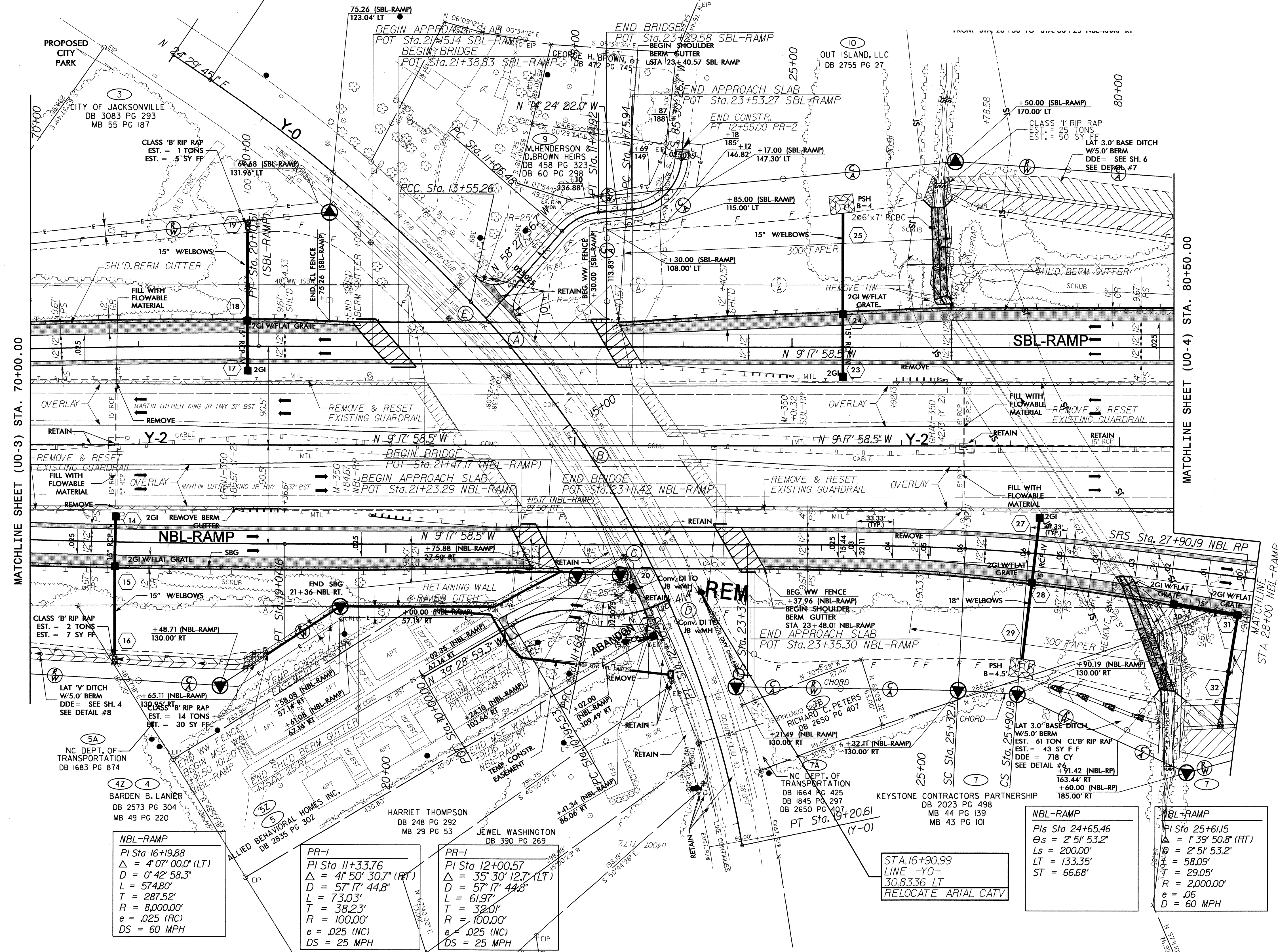
MATCHLINE SHEET (U0-3) STA. 70+00.00

5/14/09 06-JUL-2010 10:59 :U:\11\06-4007b-U0-2.rdy4_U02.dgn

UTILITIES BY OTHERS

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

SBL-RAMP	Y-0	Y-0
PI Sta 17+57.97	PI Sta 11+98.62	PI Sta 16+46.26
$\Delta = 3' 37' 07.1''$ (RT)	$\Delta = 12' 52' 56.8''$ (RT)	$\Delta = 33' 28' 04.2''$ (RT)
$D = 0' 42' 58.3''$	$D = 4' 05' 40.2''$	$D = 5' 55' 11.7''$
$L = 505.26'$	$L = 314.63'$	$L = 565.34'$
$T = 252.71'$	$T = 157.98'$	$T = 290.99'$
$R = 8,000.00'$	$R = 1,399.33'$	$R = 967.85'$
$e = .025$	$e = .071$	$e = .071$
$D=60$ MPH		



NBL-RAMP
PI Sta 16+19.88
$\Delta = 4' 07' 00.0''$ (LT)
$D = 0' 42' 58.3''$
$L = 574.80'$
$T = 287.52'$
$R = 8,000.00'$
$e = .025$ (RC)
$DS = 60$ MPH

PR-1
PI Sta 11+33.76
$\Delta = 41' 50' 30.7''$ (RT)
$D = 57' 17' 44.8''$
$L = 73.03'$
$T = 38.23'$
$R = 100.00'$
$e = .025$ (NC)
$DS = 25$ MPH

PR-1
PI Sta 12+00.57
$\Delta = 35' 30' 12.7''$ (LT)
$D = 57' 17' 44.8''$
$L = 61.97'$
$T = 32.01'$
$R = 100.00'$
$e = .025$ (NC)
$DS = 25$ MPH

NBL-RAMP
PIs Sta 24+65.46
$\Delta = 1' 39' 50.8''$ (RT)
$Ls = 200.00'$
$LT = 133.35'$
$ST = 66.68'$

NBL-RAMP
PI Sta 25+61.5
$\Delta = 1' 39' 50.8''$ (RT)
$Ls = 200.00'$
$LT = 133.35'$
$ST = 66.68'$

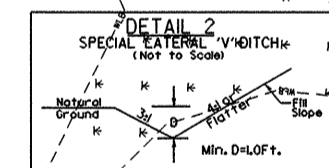
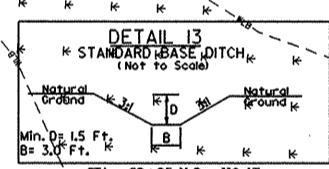
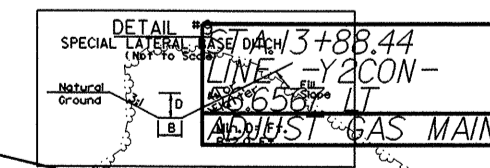
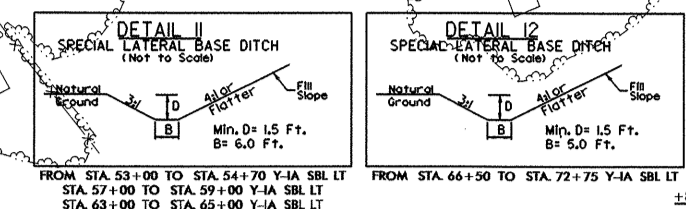
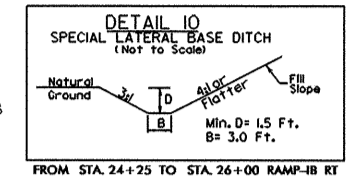
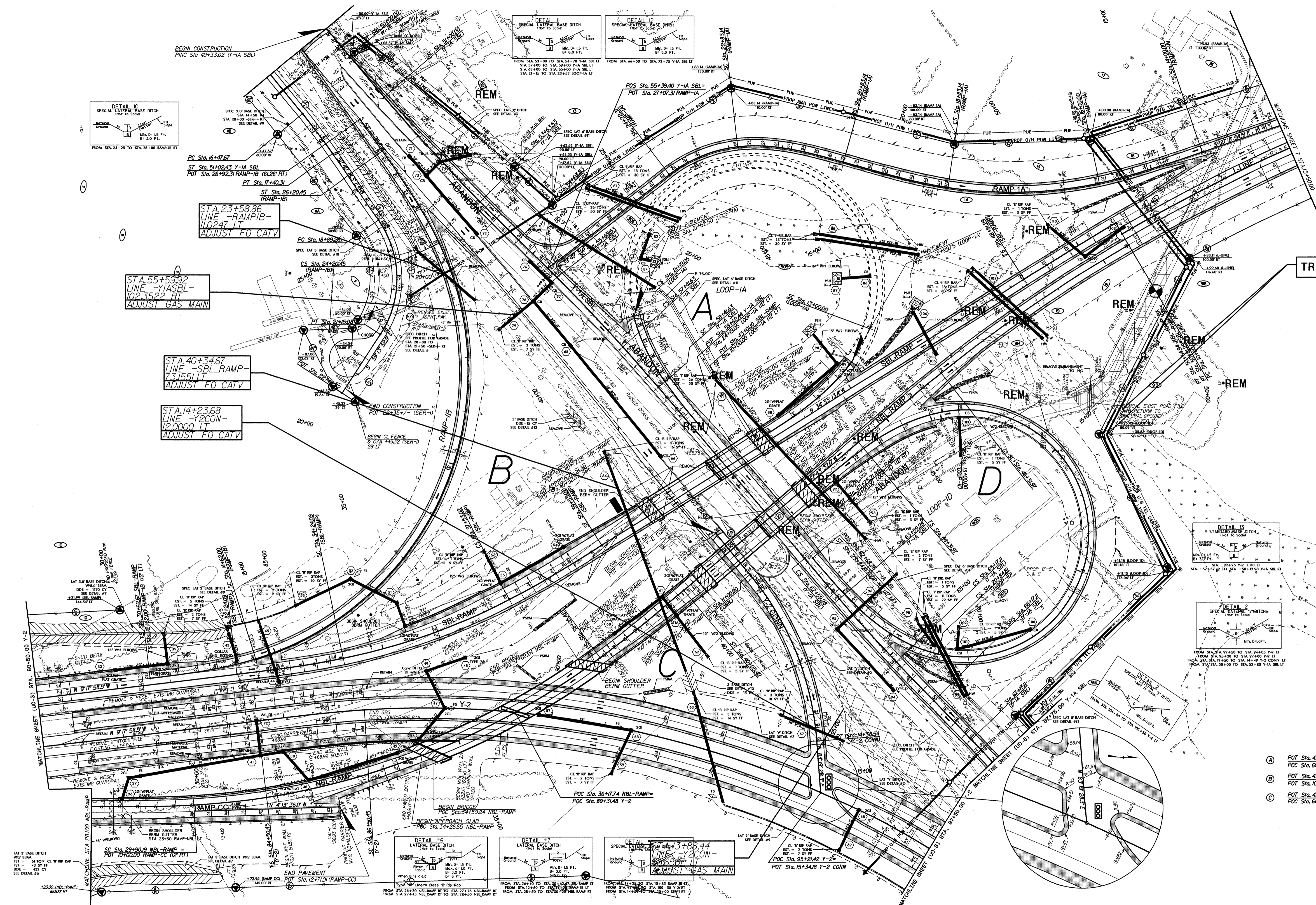
NBL-RAMP
PIs Sta 26+56.88
$\Delta = 2' 51' 53.2''$
$Ls = 200.00'$
$LT = 133.35'$
$ST = 66.68'$

STA. 16+90.99
LINE -Y-0-
30.8336 LT
RELOCATE ARIAL CATV

5/14/99
 06-JUL-2010 10:00 AM
 U:\11\11-4007b_U13-rd5-U03.dgn

UTILITIES BY OTHERS

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



TRENCHLESS INSTALLATION

STA. 55+59.92
LINE -Y1ASBL-
1023522 RT
ADJUST GAS MAIN

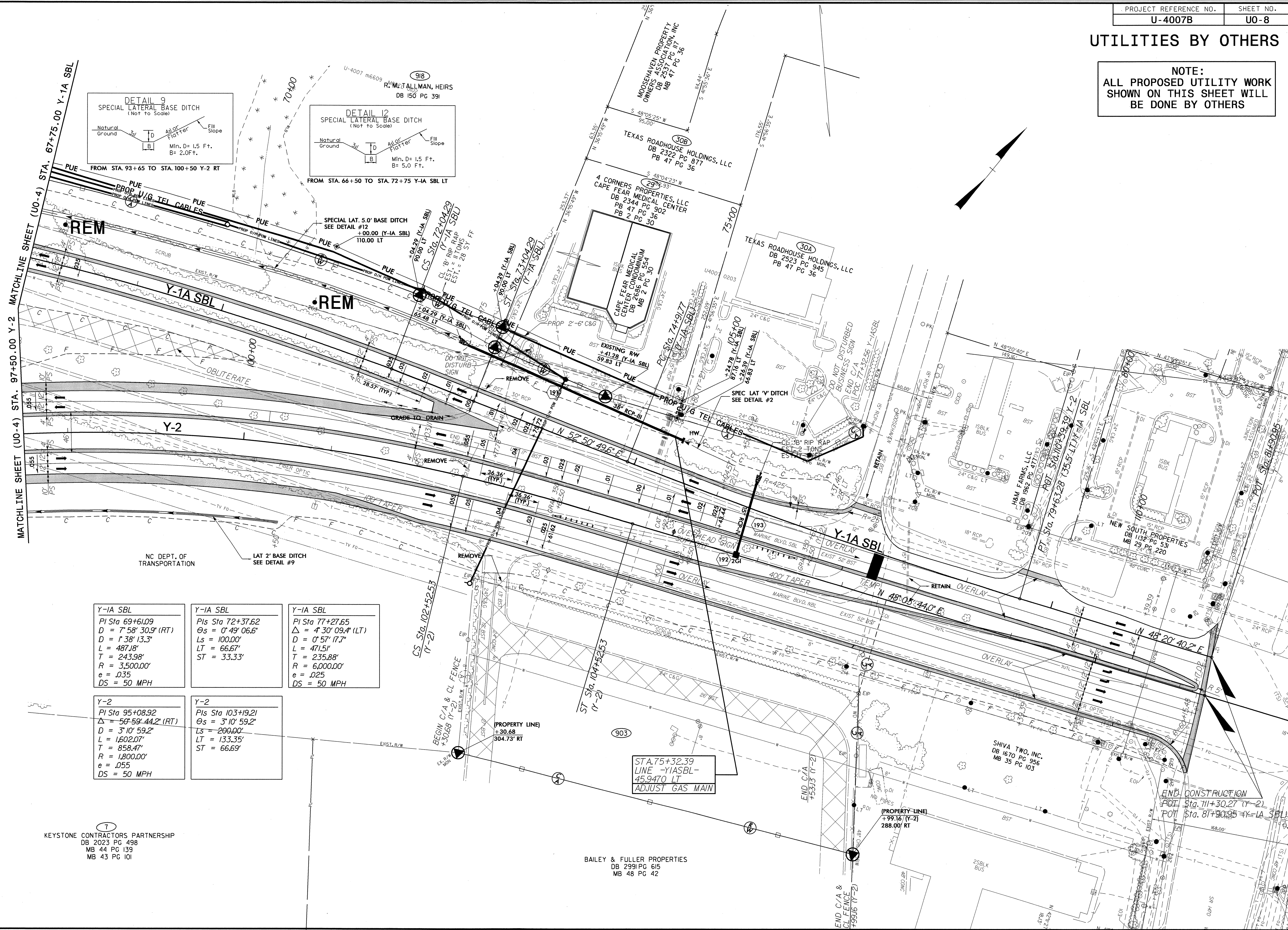
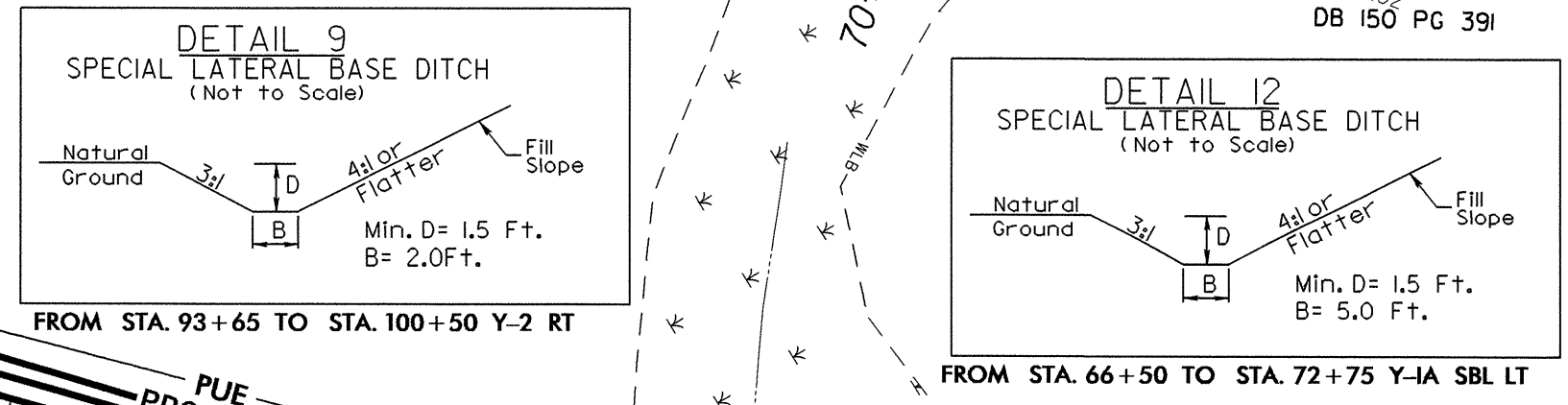
STA. 40+34.67
LINE -SBL-RAMP-
131551 LT
ADJUST FO CATV

STA. 14+23.68
LINE -Y2CON-
120000 LT
ADJUST FO CATV

- Ⓐ POT Sta. 42+27.41 SBL-RAMP=
- POC Sta. 60+35.83 Y-1A SBL
- Ⓑ POT Sta. 41+19.38 NBL-RAMP=
- POT Sta. 10+42.83 Y-2 CONN
- Ⓒ POT Sta. 42+15.92 NBL-RAMP=
- POC Sta. 61+59.28 Y-1A SBL

UTILITIES BY OTHERS

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



<p>Y-1A SBL PI Sta 69+61.09 D = 7° 58' 30.9" (RT) D = 1° 38' 13.3" L = 487.18' T = 243.98' R = 3,500.00' e = .035 DS = 50 MPH</p>	<p>Y-1A SBL PIs Sta 72+37.62 θs = 0° 49' 06.6" Ls = 100.00' LT = 66.67' ST = 33.33'</p>	<p>Y-1A SBL PI Sta 77+27.65 Δ = 4° 30' 09.4" (LT) D = 0° 57' 17.7" L = 471.51' T = 235.88' R = 6,000.00' e = .025 DS = 50 MPH</p>
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<p>Y-2 PI Sta 95+08.92 Δ = 56° 59' 44.2" (RT) D = 3° 10' 59.2" L = 1,602.07' T = 858.47' R = 1,800.00' e = .055 DS = 50 MPH</p>	<p>Y-2 PIs Sta 103+19.21 θs = 3° 10' 59.2" Ls = 200.00' LT = 133.35' ST = 66.69'</p>
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KEYSTONE CONTRACTORS PARTNERSHIP
 DB 2023 PG 498
 MB 44 PG 139
 MB 43 PG 101

BAILEY & FULLER PROPERTIES
 DB 2991 PG 615
 MB 48 PG 42

STA. 75+32.39
 LINE -Y1ASBL-
 45.9470 LT
 ADJUST GAS MAIN

5/14/99
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