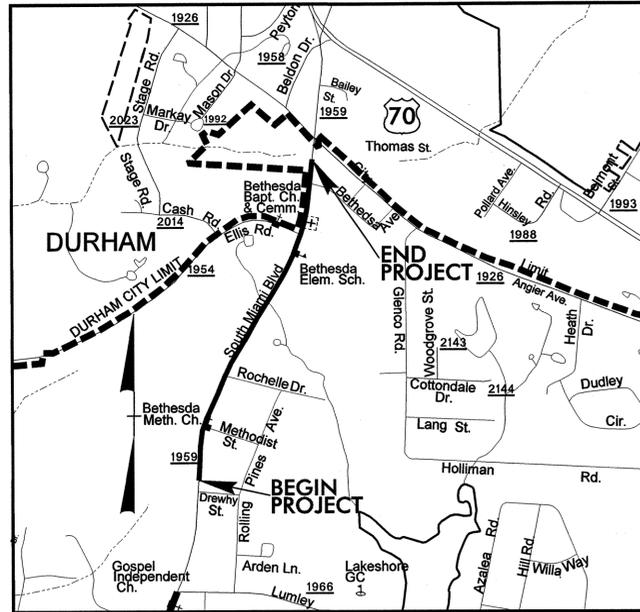
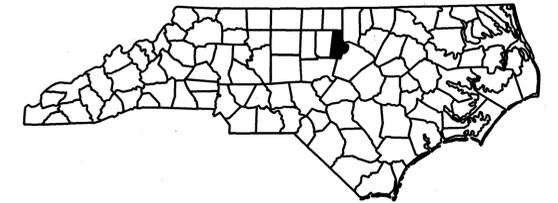


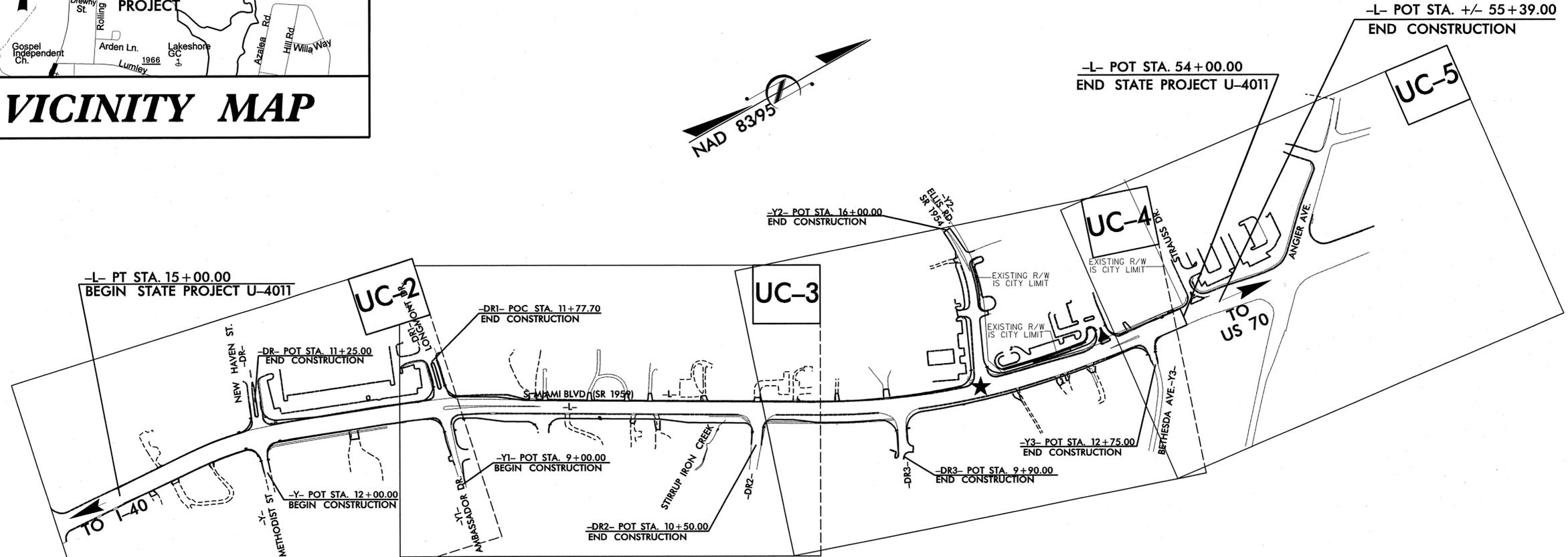
UTILITY CONSTRUCTION PLANS DURHAM COUNTY

LOCATION: SR 159 (SOUTH MIAMI BLVD.) FROM SOUTH OF SR 2112 (METHODIST ST.) TO NORTH OF SR 1960 (BETHESDA AVE.)
TYPE OF WORK: WATER AND SANITARY SEWER RELOCATION



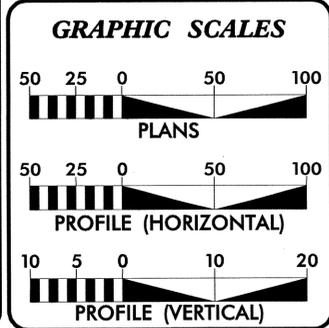
VICINITY MAP

TIP PROJECT: U-4011



NOTES:
★ PROPOSED OR UPGRADED TRAFFIC SIGNAL
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF DURHAM
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

CONTRACT:



SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 thru UC-5	PLAN SHEETS
UC-6	PROFILE SHEET
UC-7	WATER DETAIL SHEET
UC-8	SEWER DETAIL SHEET

UTILITY OWNERS ON PROJECT

1. WATER	CITY OF DURHAM
2. SANITARY SEWER	DURHAM COUNTY

PREPARED BY

KCI
ASSOCIATES OF N.C.

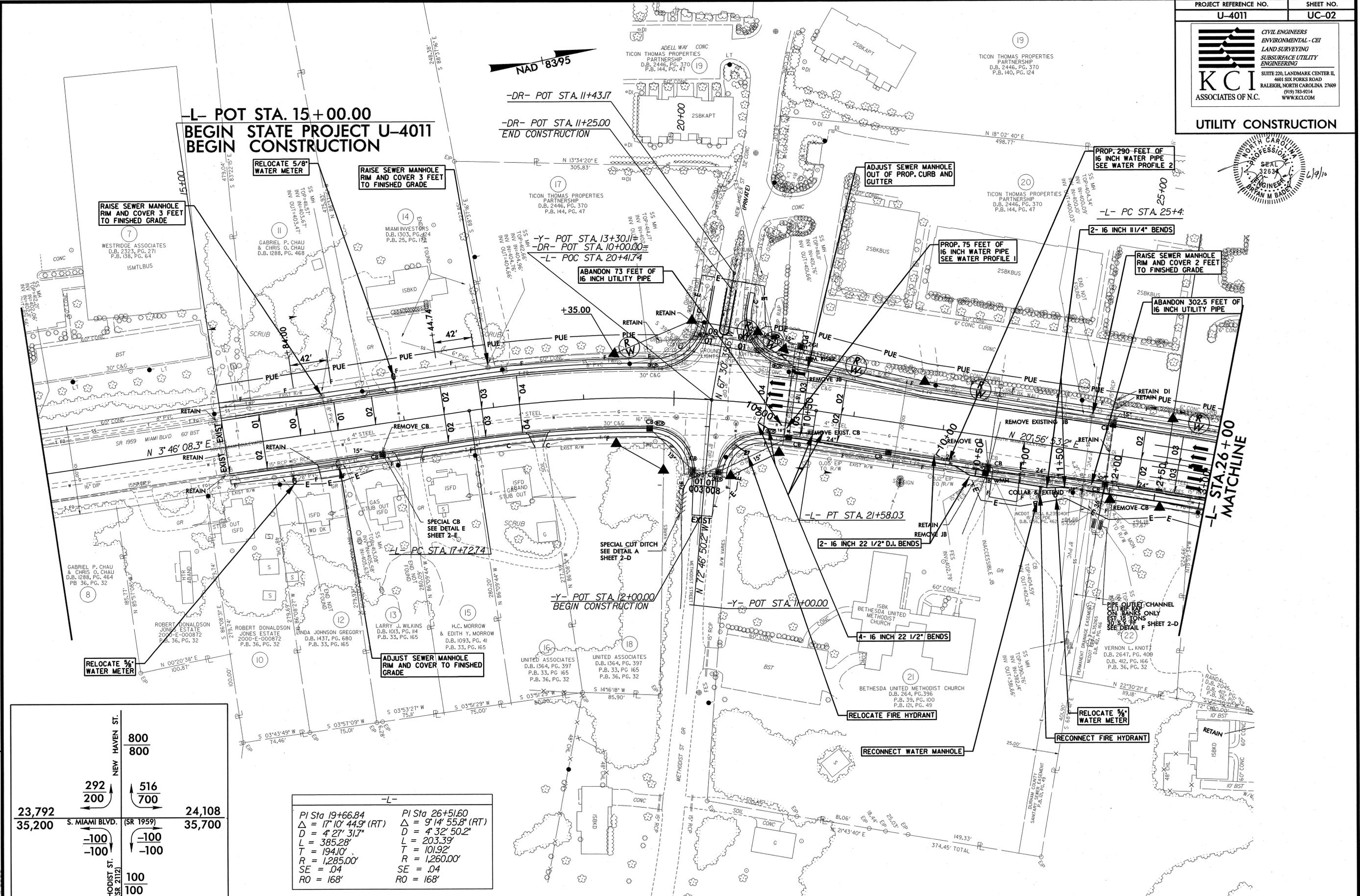
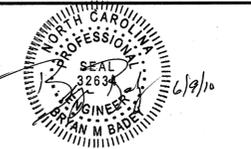
CIVIL ENGINEERS
ENVIRONMENTAL - CEI
LAND SURVEYING
SUBSURFACE UTILITY ENGINEERING

SUITE 220, LANDMARK CENTER II,
4601 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCI.COM
KCI Project #122091413A

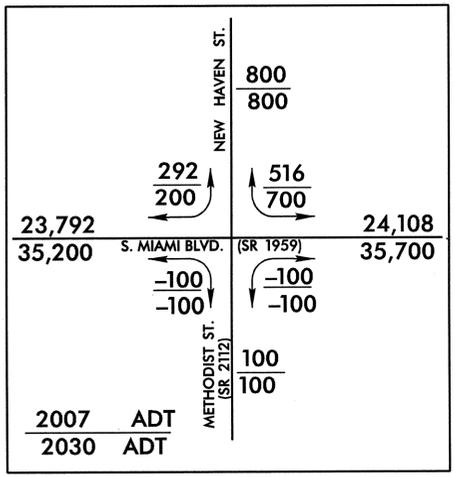
BRYAN BADEY, PE
UTILITY DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

\$\$\$SYTIME\$\$\$\$\$
\$\$\$USERNAME\$\$\$\$\$



REVISIONS

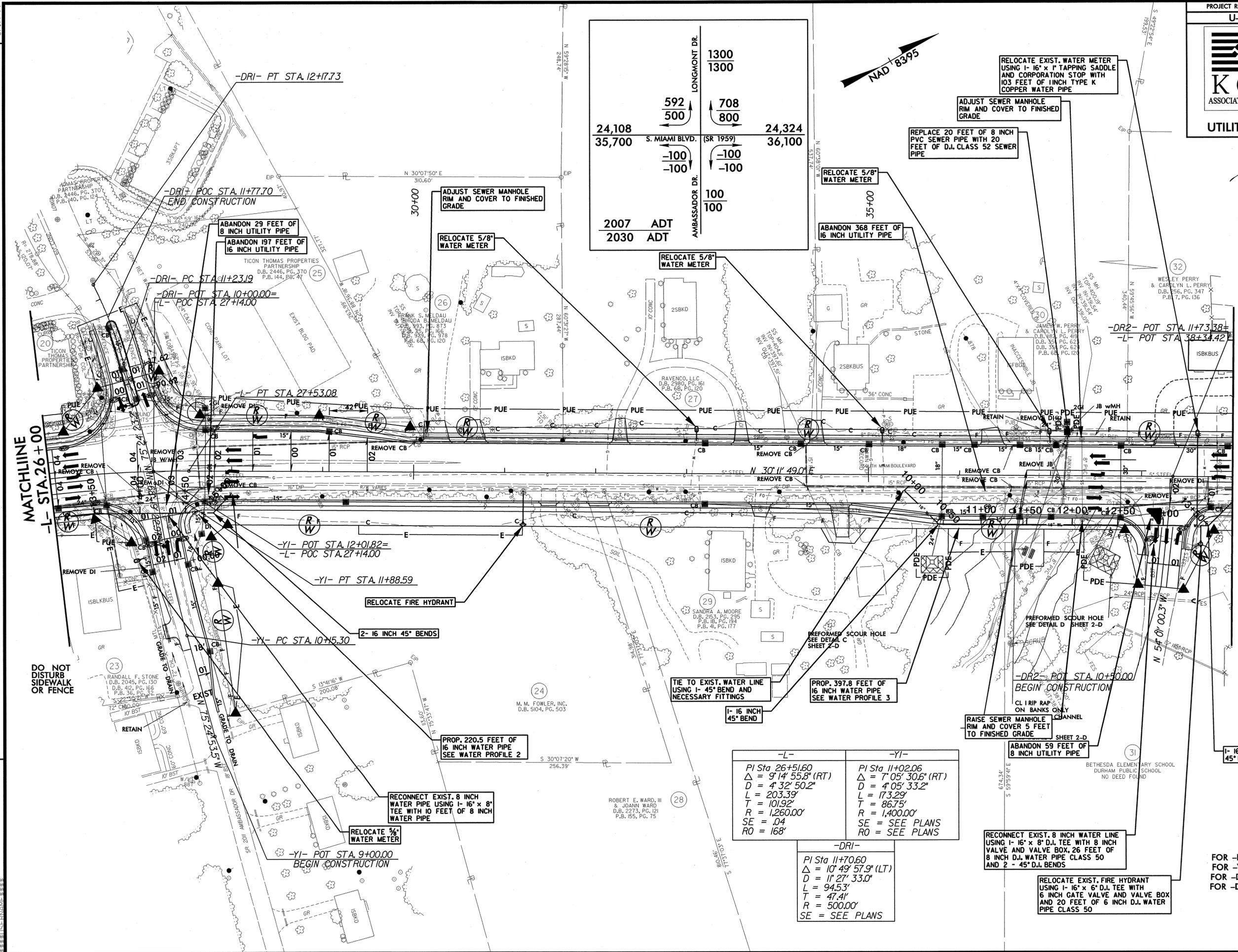


-L-	
PI Sta 19+66.84	PI Sta 26+51.60
$\Delta = 17^{\circ}10'44.9"$ (RT)	$\Delta = 9^{\circ}14'55.8"$ (RT)
$D = 4^{\circ}27'31.7"$	$D = 4^{\circ}32'50.2"$
$L = 385.28'$	$L = 203.39'$
$T = 194.10'$	$T = 101.92'$
$R = 1,285.00'$	$R = 1,260.00'$
$SE = .04$	$SE = .04$
$RO = 168'$	$RO = 168'$

FOR -L- PROFILE SEE SHEET 8
FOR -Y- PROFILE SEE SHEET 9
FOR -DR- PROFILE SEE SHEET 10



LONGMONT DR.		1300	1300
592	708	500	800
24,108		24,324	
35,700	S. MIAMI BLVD. (SR 1959)	36,100	
	-100		-100
	-100		-100
AMBASSADOR DR.		100	100
2007	ADT		
2030	ADT		



MATCHLINE
-L- STA. 26+00

MATCHLINE
-L- STA. 39+00

REVISIONS

8/17/09
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ADJUST SEWER MANHOLE RIM AND COVER TO FINISHED GRADE

RELOCATE 5/8" WATER METER

ADJUST SEWER MANHOLE RIM AND COVER TO FINISHED GRADE

REPLACE 20 FEET OF 8 INCH PVC SEWER PIPE WITH 20 FEET OF D.I. CLASS 52 SEWER PIPE

RELOCATE 5/8" WATER METER

ABANDON 368 FEET OF 16 INCH UTILITY PIPE

RELOCATE 5/8" WATER METER

-DR2- POT STA. 11+73.38 =
-L- POT STA. 38+34.42

ABANDON 29 FEET OF 8 INCH UTILITY PIPE
ABANDON 197 FEET OF 16 INCH UTILITY PIPE

-DRI- PC STA. 11+23.19
-DRI- POT STA. 10+00.00 =
-L- POT STA. 27+14.00

PT STA. 27+53.02

-Y1- POT STA. 12+01.82 =
-L- POT STA. 27+14.00

-Y1- PT STA. 11+88.59

-Y1- PC STA. 10+15.30

RELOCATE FIRE HYDRANT

PROP. 220.5 FEET OF 16 INCH WATER PIPE SEE WATER PROFILE 2

RECONNECT EXIST. 8 INCH WATER PIPE USING 1-16" x 8" TEE WITH 10 FEET OF 8 INCH WATER PIPE

RELOCATE 3/4" WATER METER

-Y1- POT STA. 9+00.00
BEGIN CONSTRUCTION

TIE TO EXIST. WATER LINE USING 1-45" BEND AND NECESSARY FITTINGS

PROP. 397.8 FEET OF 16 INCH WATER PIPE SEE WATER PROFILE 3

PREFORMED SCOUR HOLE SEE DETAIL C SHEET 2-D

-DR2- POT STA. 10+00.00
BEGIN CONSTRUCTION

RAISE SEWER MANHOLE RIM AND COVER 5 FEET TO FINISHED GRADE

ABANDON 59 FEET OF 8 INCH UTILITY PIPE

-L-	-Y1-
PI Sta 26+51.60	PI Sta 11+02.06
$\Delta = 9' 14" 55.8" (RT)$	$\Delta = 7' 05" 30.6" (RT)$
$D = 4' 32" 50.2"$	$D = 4' 05" 33.2"$
$L = 203.39'$	$L = 173.29'$
$T = 101.92'$	$T = 86.75'$
$R = 1,260.00'$	$R = 1,400.00'$
$SE = .04$	$SE = SEE PLANS$
$RO = 168'$	$RO = SEE PLANS$

-DRI-
PI Sta 11+70.60
$\Delta = 10' 49' 57.9" (LT)$
$D = 11' 27' 33.0"$
$L = 94.53'$
$T = 47.41'$
$R = 500.00'$
$SE = SEE PLANS$

RECONNECT EXIST. 8 INCH WATER LINE USING 1-16" x 8" D.I. TEE WITH 8 INCH VALVE AND VALVE BOX, 25 FEET OF 8 INCH D.I. WATER PIPE CLASS 50 AND 2 - 45" D.I. BENDS

RELOCATE EXIST. FIRE HYDRANT USING 1-16" x 8" D.I. TEE WITH 6 INCH GATE VALVE AND VALVE BOX AND 20 FEET OF 6 INCH D.I. WATER PIPE CLASS 50

FOR -L- PROFILE SEE SHEET 8
FOR -Y1- PROFILE SEE SHEET 10
FOR -DR2- PROFILE SEE SHEET 10



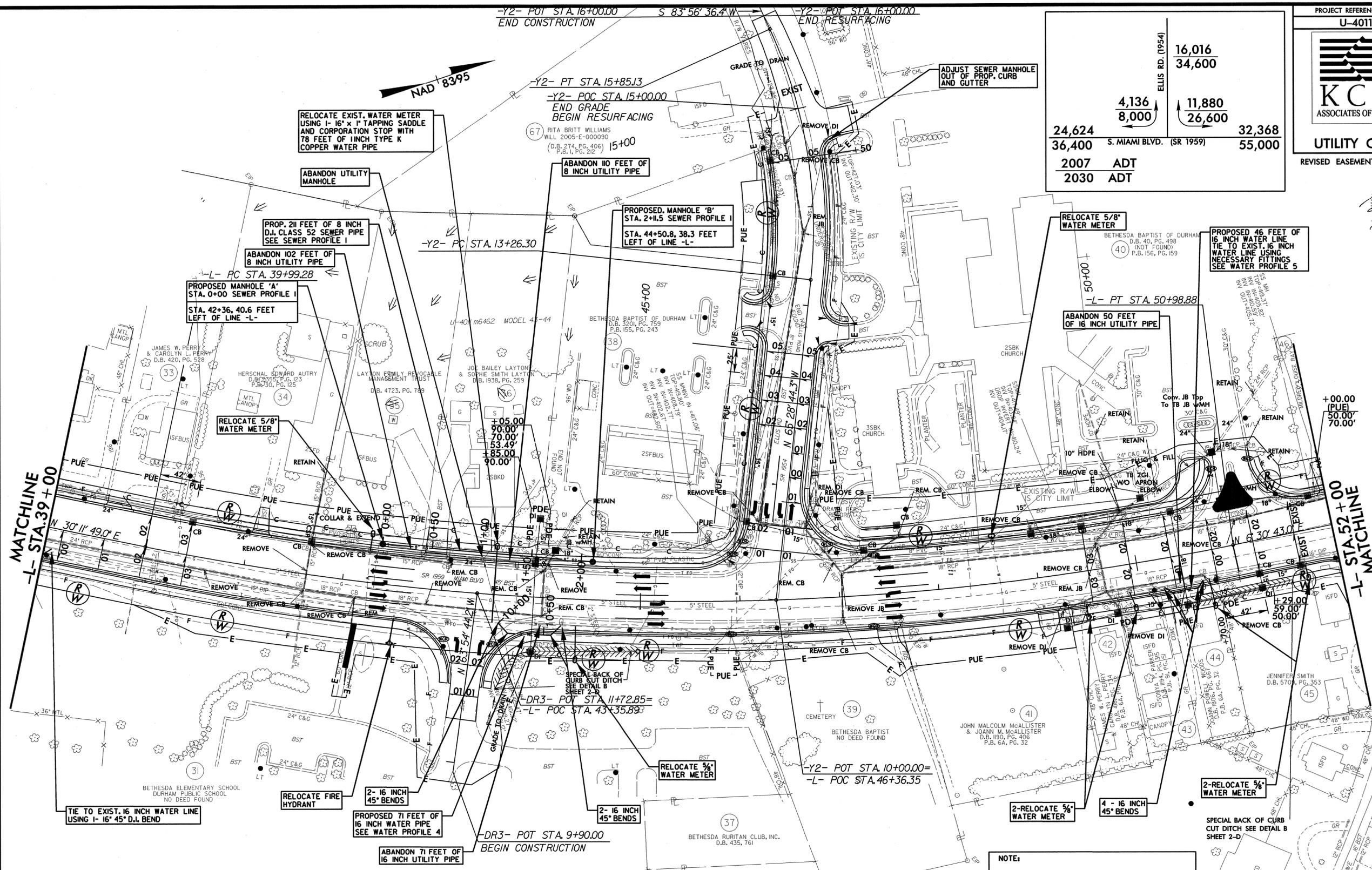
UTILITY CONSTRUCTION

REVISED EASEMENT ON PARCEL 40: 6-17-10



16,016	34,600
4,136	11,880
8,000	26,600
24,624	32,368
36,400	55,000
2007 ADT	
2030 ADT	

ELLIS RD. (1954)
S. MIAMI BLVD. (SR 1959)



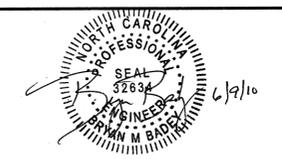
NOTE:
1. CONTRACTOR SHALL LOCATE EXISTING 4" SEWER SERVICE LINE ON PARCEL 36 AND RE-ROUTE TO PROPOSED MANHOLE "A" OR "B".
2. ALL SEWER SERVICE LINES ALONG ABANDONED LINE SHALL BE TIE-IN TO PROPOSED LINE.

-L-	-Y2-
PI Sta 45+57.05	PI Sta 14+58.88
$\Delta = 23^{\circ} 41' 06.0"$ (LT)	$\Delta = 30^{\circ} 34' 39.3"$ (LT)
D = 2' 09' 14.3"	D = 1' 48' 48.8"
L = 1,099.59'	L = 258.83'
T = 557.76'	T = 132.58'
R = 2,660.00'	R = 485.00'
SE = .03	SE = SEE PLANS
RO = 126'	RO = SEE PLANS

FOR -L- PROFILE SEE SHEET 9
FOR -DR3- PROFILE SEE SHEET 10
FOR -Y2- PROFILE SEE SHEET 10

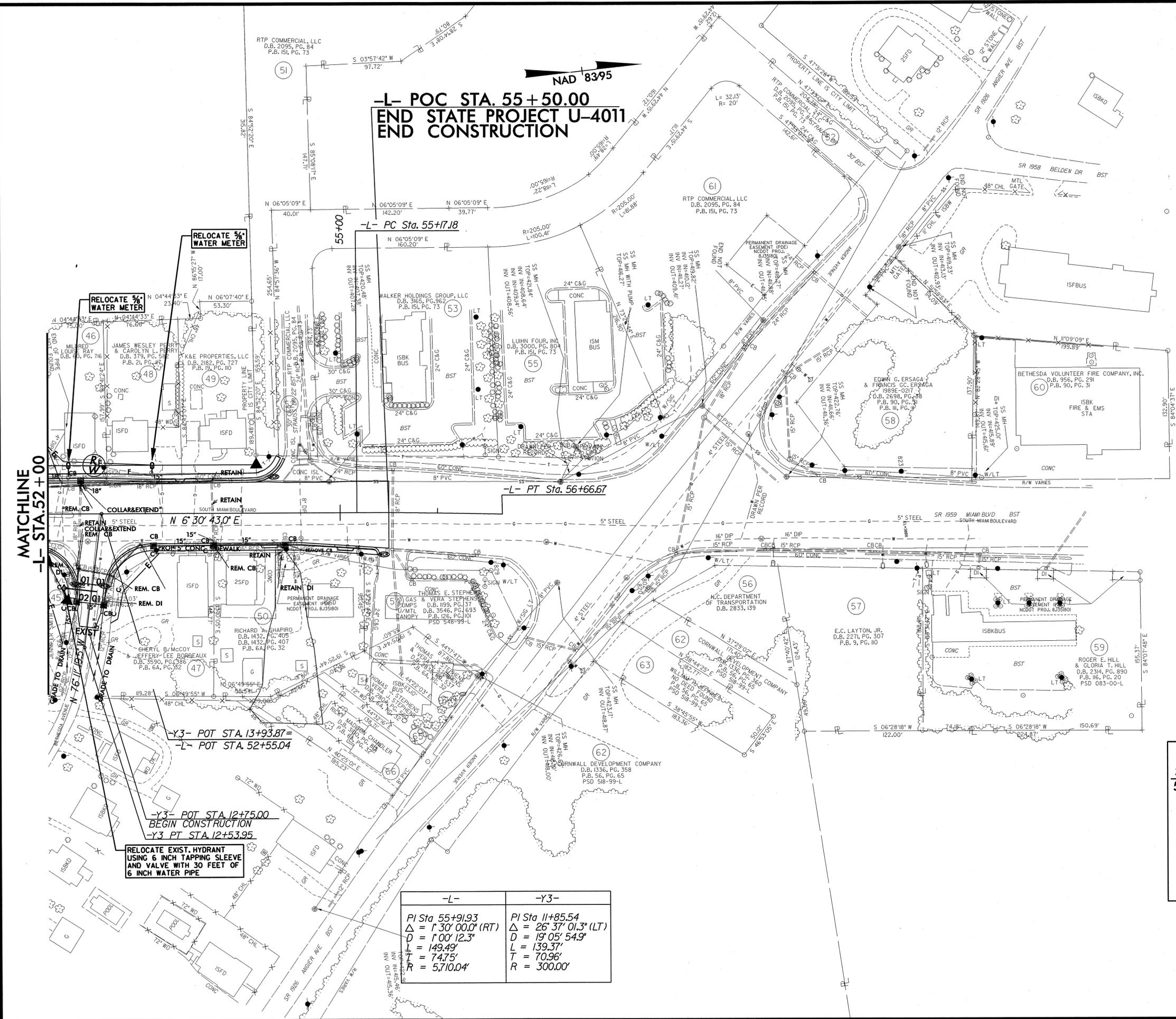
REVISIONS

8/17/99



**-L- POC STA. 55+50.00
END STATE PROJECT U-4011
END CONSTRUCTION**

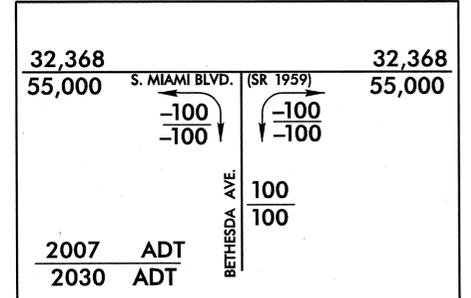
NAD 8395



**MATCHLINE
-L- STA. 52+00**

**RELOCATE EXIST. HYDRANT
USING 6 INCH TAPPING SLEEVE
AND VALVE WITH 30 FEET OF
6 INCH WATER PIPE**

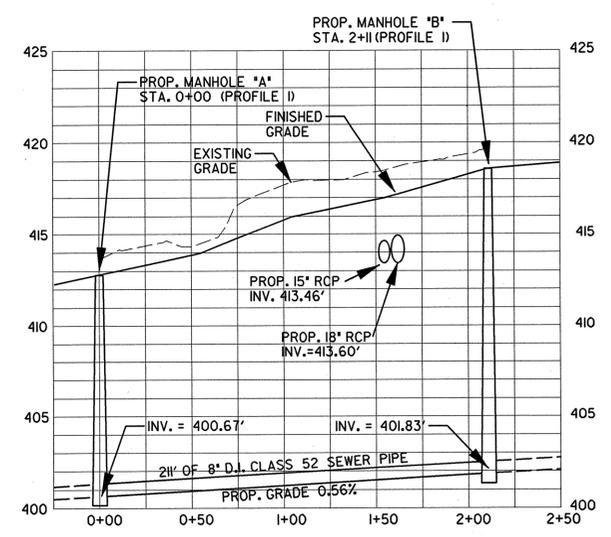
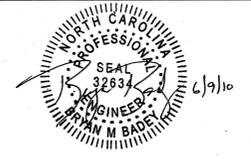
-L-	-Y3-
PI Sta 55+91.93	PI Sta 11+85.54
$\Delta = 1' 30'' 00.0''$ (RT)	$\Delta = 26' 37'' 01.3''$ (LT)
$D = 1' 00'' 12.3''$	$D = 19' 05'' 54.9''$
$L = 149.49'$	$L = 139.37'$
$T = 74.75'$	$T = 70.96'$
$R = 5,710.04'$	$R = 300.00'$



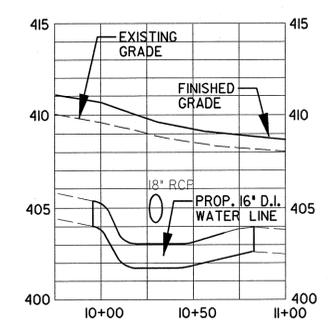
FOR -L- PROFILE SEE SHEET 9
FOR -Y3- PROFILE SEE SHEET 10

REVISIONS

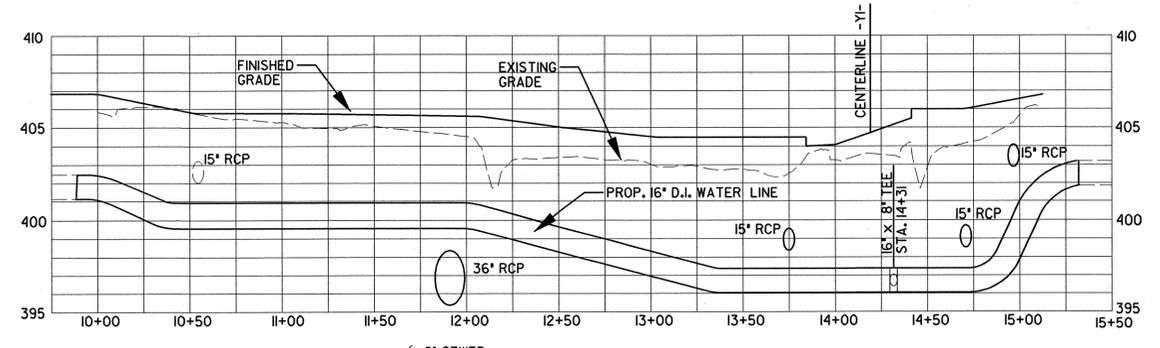
8/17/99



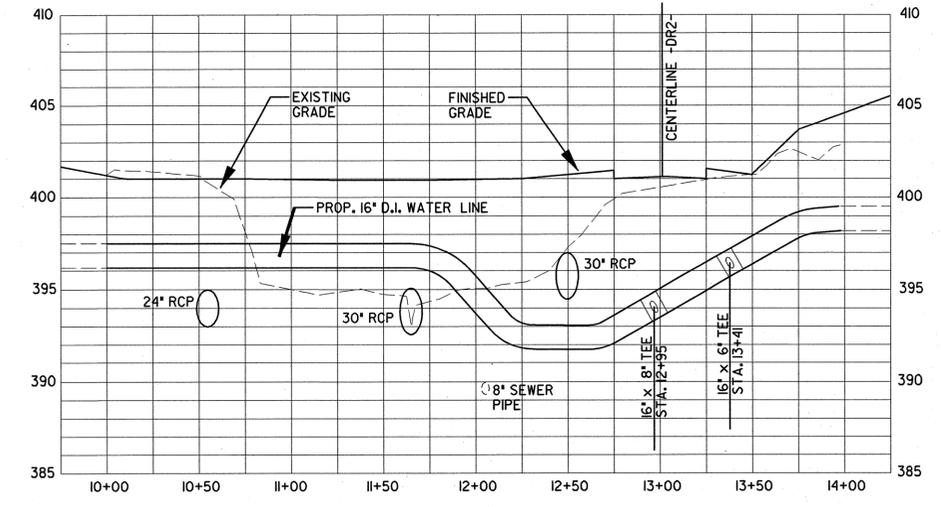
SEWER PROFILE 1



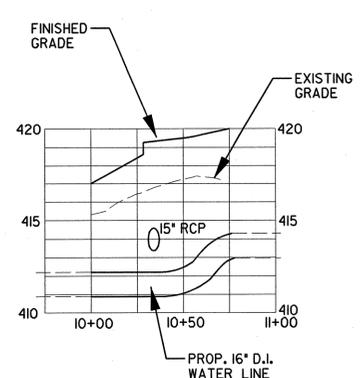
WATER PROFILE 1



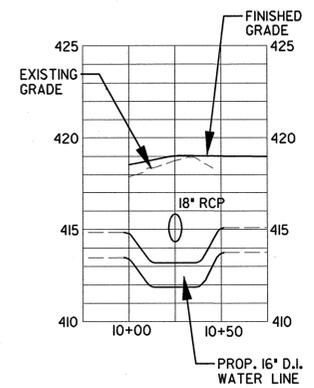
WATER PROFILE 2



WATER PROFILE 3



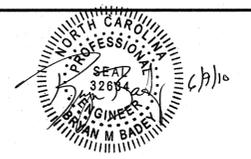
WATER PROFILE 4



WATER PROFILE 5

REVISIONS

8/17/99



TYPICAL SECTION
 (FOR TRENCH EXCAVATION SHOWING MAXIMUM SLOPE RELATIONSHIP FOR PARALLEL INSTALLATION)

DURHAM
 1 8 8 9 CITY OF MEDICINE

REVISION DATE: 04/06/2009

ROADSIDE PIPE TRENCH EXCAVATION
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

SCALE: NTS
 DETAIL NO. P-1.0

STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 04/01/2009

SCALE: NTS
 DETAIL NO. W-1.0

GENERAL NOTES:
 1. 3000 P.S.I. SOLID CONCRETE BLOCKING BEHIND SLEEVE.
 2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
 3. 12" X 12" AND 16" X 16" TAPPING SLEEVE IS NOT ALLOWED.

3/4" OR 1" WATER CONNECTION FOR 5/8" OR 1" WATER METERS
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 05/07/09

SCALE: NONE
 DETAIL NO. W-3.1

CONCRETE METER BOX FOR 5/8" AND 1" WATER METERS
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 04/01/2009

SCALE: NTS
 DETAIL NO. W-3.3

NOTE:
 1. CONCRETE METER BOXES ARE TO BE DISCONTINUED AS OF JULY 1 2010.

WATER VALVE BOX INSTALLATION FOR 4", 6", 8", AND 12" GATE VALVES
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 04/14/2009

SCALE: NTS
 DETAIL NO. W-6.0

VALVE PREFERENCE TABLE

THE FOLLOWING TABLE SUMMARIZES VALVE TYPES AND ACCESS ALLOWED FOR DIFFERENT SIZED VALVES.

VALVE SIZE (INCHES)	VALVE TYPE	TYPE OF ACCESS	SIZE OF ACCESS (FEET)
12 AND UNDER	RESILIENT WEDGE GATE	VALVE BOX, 2-PIECE SCREW TYPE	STANDARD
14	BUTTERFLY	MANHOLE	4
16	BUTTERFLY	MANHOLE	4
18	BUTTERFLY	MANHOLE	5
20	BUTTERFLY	MANHOLE	5
24	BUTTERFLY	MANHOLE	5
30	BUTTERFLY	MANHOLE	6
36	BUTTERFLY	MANHOLE	6
42	BUTTERFLY	MANHOLE	6

GATE VALVES MAY BE DEEMED NECESSARY BY THE ENGINEERING DIVISION.

DURHAM
 1 8 8 9 CITY OF MEDICINE

REVISION DATE: 04/15/2009

VALVE PREFERENCE TABLE
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

SCALE: NTS
 DETAIL NO. W-6.1

HORIZONTAL THRUST BLOCKING ISOMETRIC VIEWS
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 03/14/2007

REVISOR: D. SCHMOYER

SCALE: NONE
 DETAIL NO. W-6.0

NOTES:
 1. CONCRETE SHALL BE 2500 P.S.I.
 2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
 3. TRENCHES SHALL CONFORM TO CITY OF DURHAM SPECIFICATIONS AND STANDARDS.
 4. ALL BENDS AND TEES SHALL HAVE CONCRETE THRUST BLOCKING.

CONCRETE THRUST BLOCK
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 04/06/2009

SCALE: NTS
 DETAIL NO. W-6.1

NOTES:
 1. CONCRETE SHALL BE 3000 P.S.I.
 2. REINFORCING BARS SHALL BE DEFORMED, AND TIED TOGETHER.
 3. BACKFILL TAMPED IN 6" LAYERS.
 4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK(S) INSTALLATION SHALL BE THE MINIMUM WIDTH AS DESCRIBED BY THE ENGINEER.

HORIZONTAL THRUST BLOCKING SCHEDULE
 CITY OF DURHAM, NORTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 04/06/2009

SCALE: NTS
 DETAIL NO. W-6.2

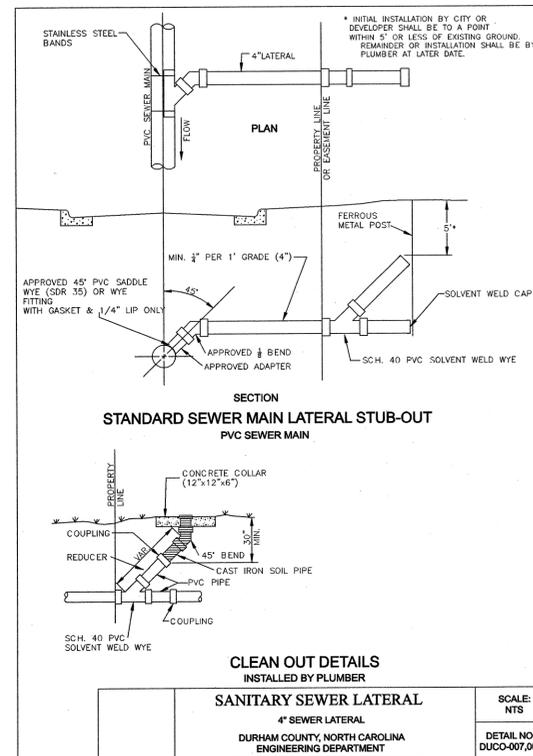
PIPE SIZE AND 90 DEGREE BEND	6" PIPE	8" PIPE	12" PIPE	16" PIPE	20" PIPE	24" PIPE	30" PIPE	36" PIPE
11 1/4"	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108
22 1/2"	2,207	2,207	2,207	2,207	2,207	2,207	2,207	2,207
45"	4,328	4,328	4,328	4,328	4,328	4,328	4,328	4,328
90"	7,996	7,996	7,996	7,996	7,996	7,996	7,996	7,996
PLUG OR TEE	5,655	5,655	5,655	5,655	5,655	5,655	5,655	5,655
12" PIPE	11 1/4"	1,970	1,970	1,970	1,970	1,970	1,970	1,970
22 1/2"	3,922	3,922	3,922	3,922	3,922	3,922	3,922	3,922
45"	7,694	7,694	7,694	7,694	7,694	7,694	7,694	7,694
90"	14,215	14,215	14,215	14,215	14,215	14,215	14,215	14,215
PLUG OR TEE	10,053	10,053	10,053	10,053	10,053	10,053	10,053	10,053
16" PIPE	11 1/4"	4,433	4,433	4,433	4,433	4,433	4,433	4,433
22 1/2"	8,826	8,826	8,826	8,826	8,826	8,826	8,826	8,826
45"	17,312	17,312	17,312	17,312	17,312	17,312	17,312	17,312
90"	33,963	33,963	33,963	33,963	33,963	33,963	33,963	33,963
PLUG OR TEE	22,619	22,619	22,619	22,619	22,619	22,619	22,619	22,619
20" PIPE	11 1/4"	12,315	12,315	12,315	12,315	12,315	12,315	12,315
22 1/2"	24,517	24,517	24,517	24,517	24,517	24,517	24,517	24,517
45"	48,091	48,091	48,091	48,091	48,091	48,091	48,091	48,091
90"	88,844	88,844	88,844	88,844	88,844	88,844	88,844	88,844
PLUG OR TEE	62,832	62,832	62,832	62,832	62,832	62,832	62,832	62,832
24" PIPE	11 1/4"	17,734	17,734	17,734	17,734	17,734	17,734	17,734
22 1/2"	35,305	35,305	35,305	35,305	35,305	35,305	35,305	35,305
45"	69,252	69,252	69,252	69,252	69,252	69,252	69,252	69,252
90"	127,936	127,936	127,936	127,936	127,936	127,936	127,936	127,936
PLUG OR TEE	90,478	90,478	90,478	90,478	90,478	90,478	90,478	90,478
30" PIPE	11 1/4"	27,709	27,709	27,709	27,709	27,709	27,709	27,709
22 1/2"	55,163	55,163	55,163	55,163	55,163	55,163	55,163	55,163
45"	108,206	108,206	108,206	108,206	108,206	108,206	108,206	108,206
90"	199,900	199,900	199,900	199,900	199,900	199,900	199,900	199,900
PLUG OR TEE	143,372	143,372	143,372	143,372	143,372	143,372	143,372	143,372
36" PIPE	11 1/4"	39,901	39,901	39,901	39,901	39,901	39,901	39,901
22 1/2"	79,435	79,435	79,435	79,435	79,435	79,435	79,435	79,435
45"	158,618	158,618	158,618	158,618	158,618	158,618	158,618	158,618
90"	247,855	247,855	247,855	247,855	247,855	247,855	247,855	247,855
PLUG OR TEE	203,675	203,675	203,675	203,675	203,675	203,675	203,675	203,675

GENERAL NOTES:
 1. BASED ON TEST PRESSURE OF 200 P.S.I. ALL AREAS GIVEN IN SQUARE FEET.
 2. IN THE TRENCH SCHEDULE AT AN ANGLE OF 90 DEGREES TO THE THRUST BLOCKING.
 3. USE 6" - 80' BEND VALUE FOR INFLUENCE FOR ADDITIONAL SAFETY FACTORS.

REVISIONS

8/17/99

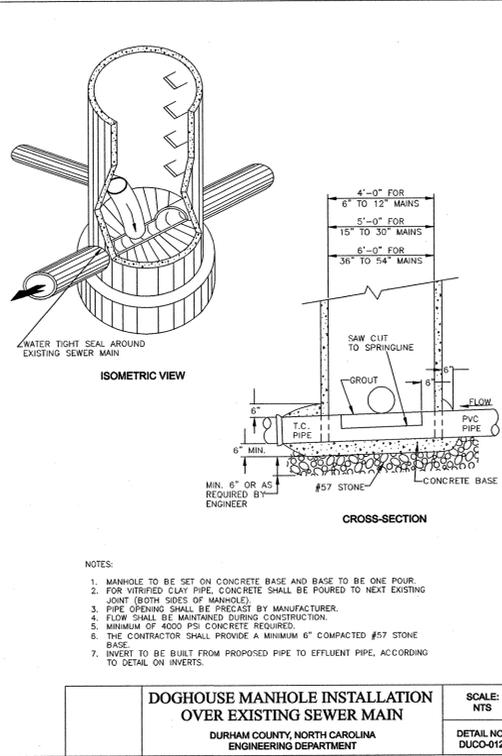
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**STANDARD SEWER MAIN LATERAL STUB-OUT
PVC SEWER MAIN**

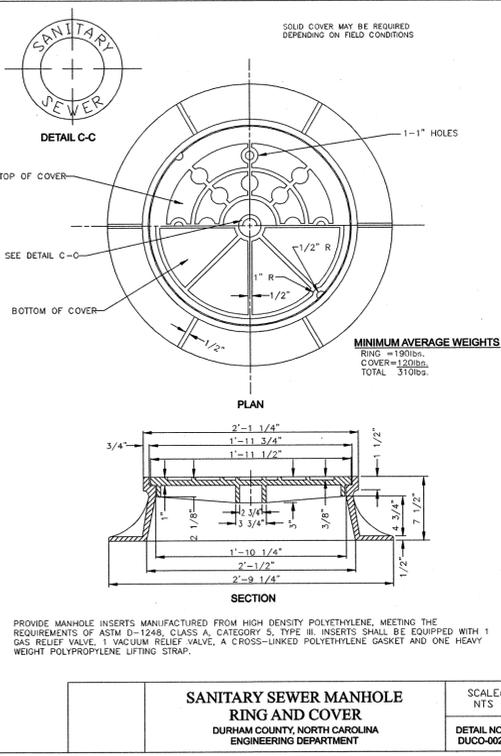
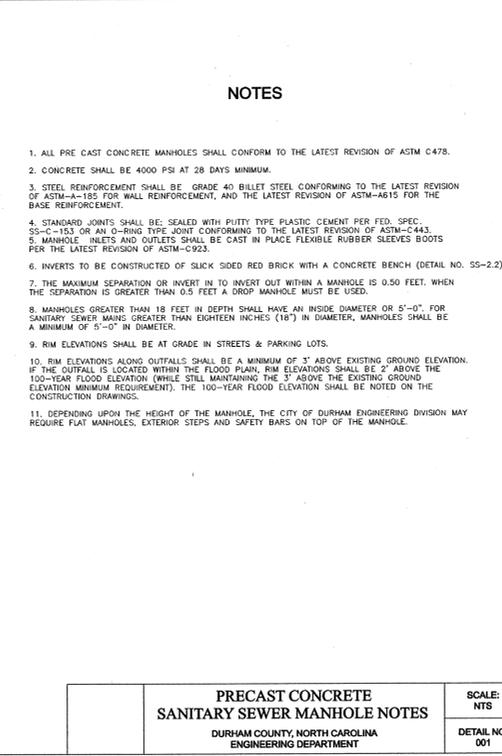
**CLEAN OUT DETAILS
INSTALLED BY PLUMBER**

**SANITARY SEWER LATERAL
4\"/>**



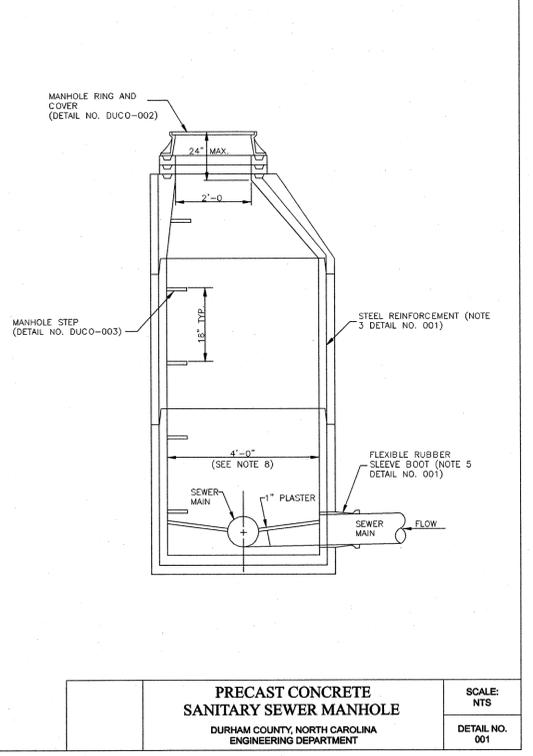
**DOGHOUSE MANHOLE INSTALLATION
OVER EXISTING SEWER MAIN**

**DURHAM COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT**



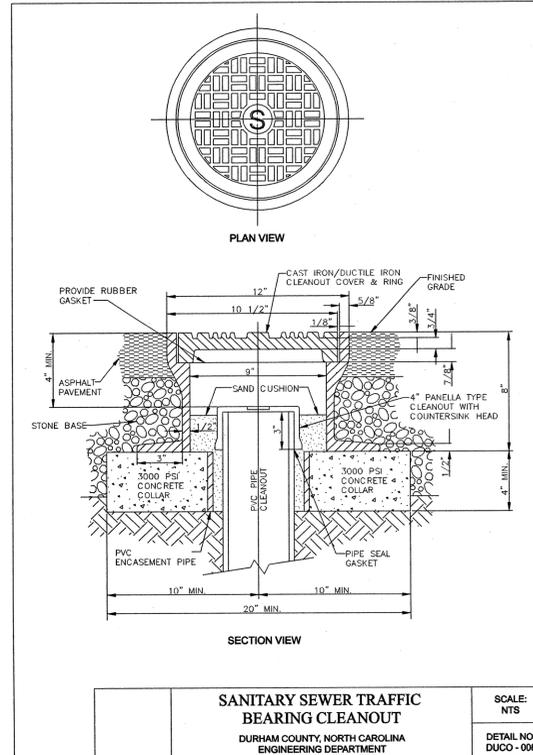
**SANITARY SEWER MANHOLE
RING AND COVER**

**DURHAM COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT**



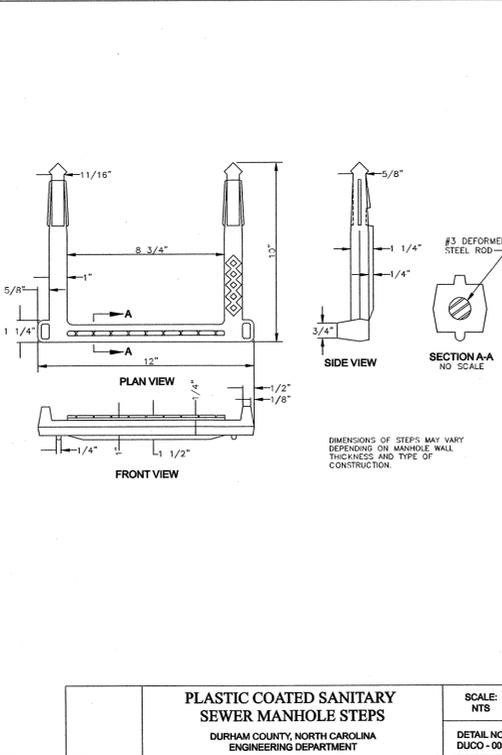
**PRECAST CONCRETE
SANITARY SEWER MANHOLE**

**DURHAM COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT**



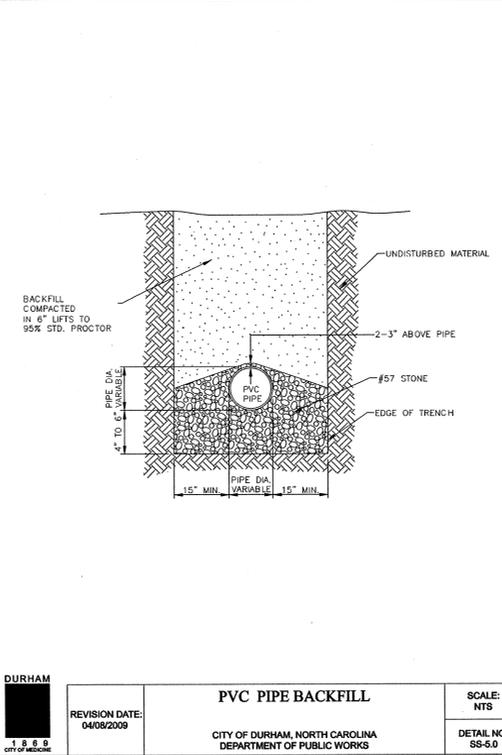
**SANITARY SEWER TRAFFIC
BEARING CLEANOUT**

**DURHAM COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT**



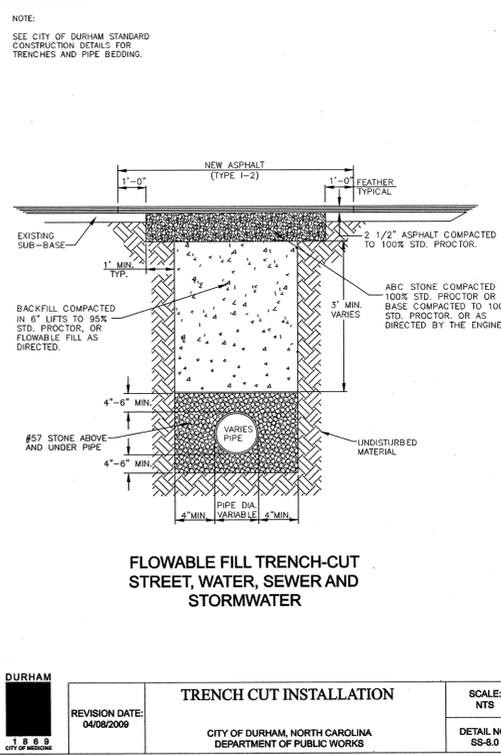
**PLASTIC COATED SANITARY
SEWER MANHOLE STEPS**

**DURHAM COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT**



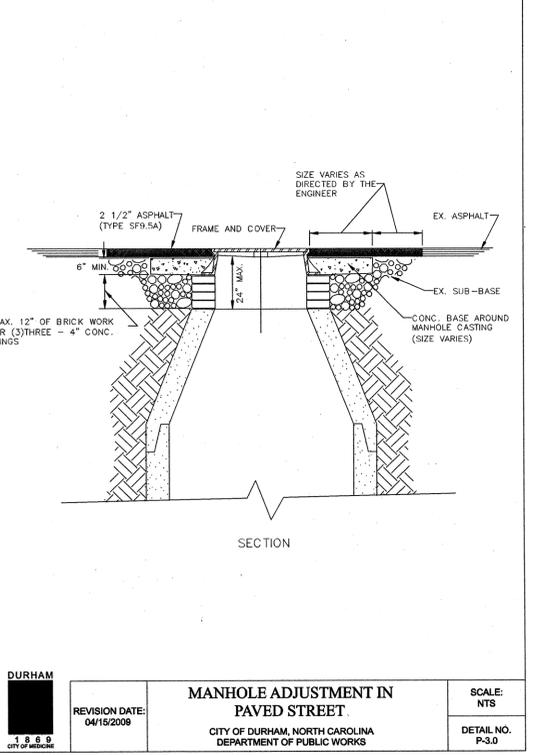
PVC PIPE BACKFILL

**CITY OF DURHAM, NORTH CAROLINA
DEPARTMENT OF PUBLIC WORKS**



TRENCH CUT INSTALLATION

**CITY OF DURHAM, NORTH CAROLINA
DEPARTMENT OF PUBLIC WORKS**



**MANHOLE ADJUSTMENT IN
PAVED STREET**

**CITY OF DURHAM, NORTH CAROLINA
DEPARTMENT OF PUBLIC WORKS**

REVISIONS

8/17/99

69
68
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T.I.P. NO.	SHEET NO.
U-4011	UO-1

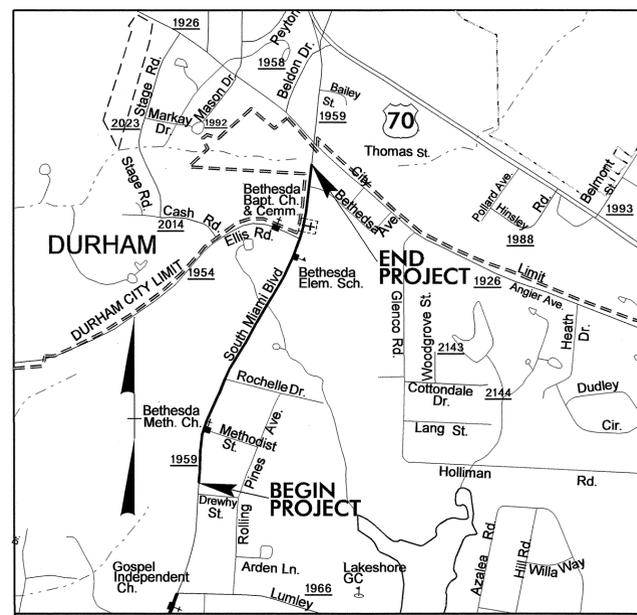
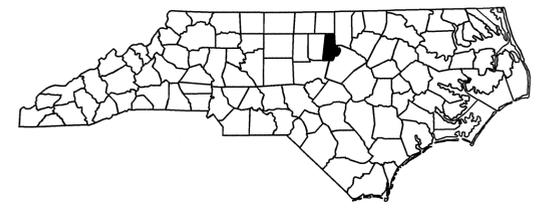
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS
DURHAM COUNTY**

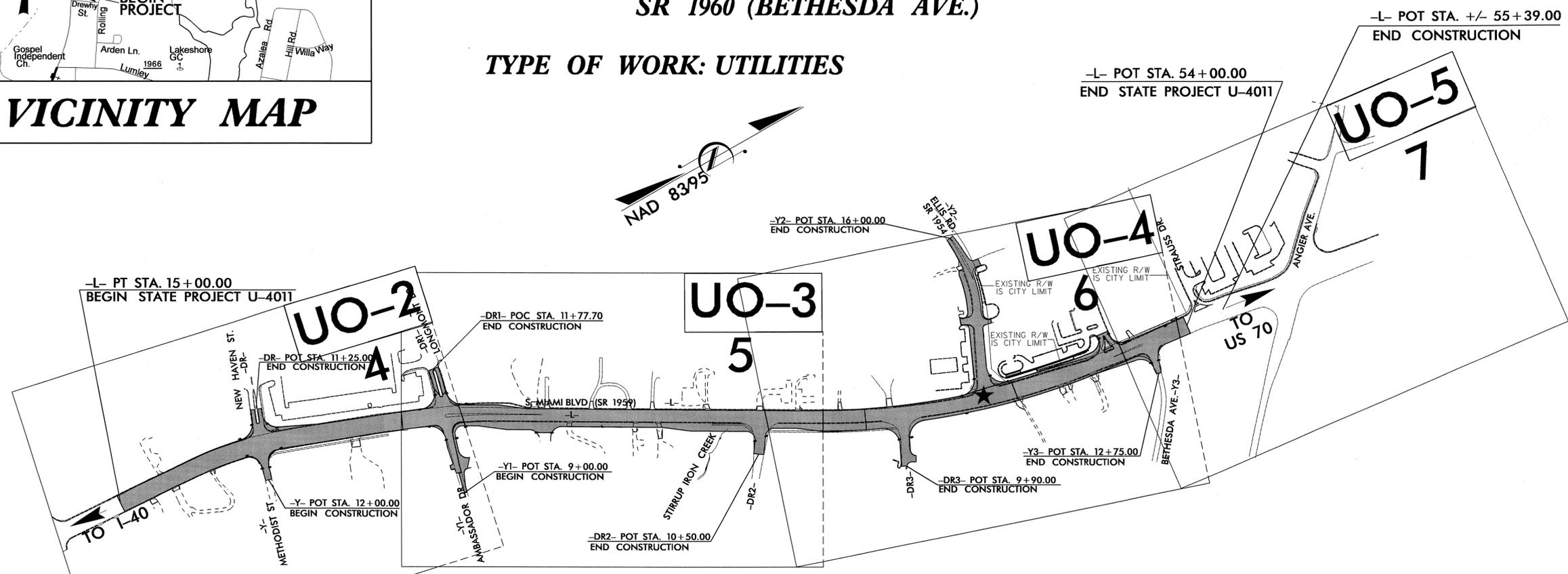
**LOCATION: SR 1959 (SOUTH MIAMI BLVD.) FROM SOUTH
OF SR 2112 (METHODIST ST.) TO NORTH OF
SR 1960 (BETHESDA AVE.)**

TYPE OF WORK: UTILITIES



VICINITY MAP

TIP U-4011



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-5	UTILITY BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT

(1) POWER	: DUKE ENERGY
(2) TELEPHONE	: VERIZON
(3) CATV	: TIME WARNER CABLE
(4) GAS	: PSNC ENERGY
(5) TELEPHONE (FO)	: MCI, LEVEL(3) COMMUNICATIONS

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

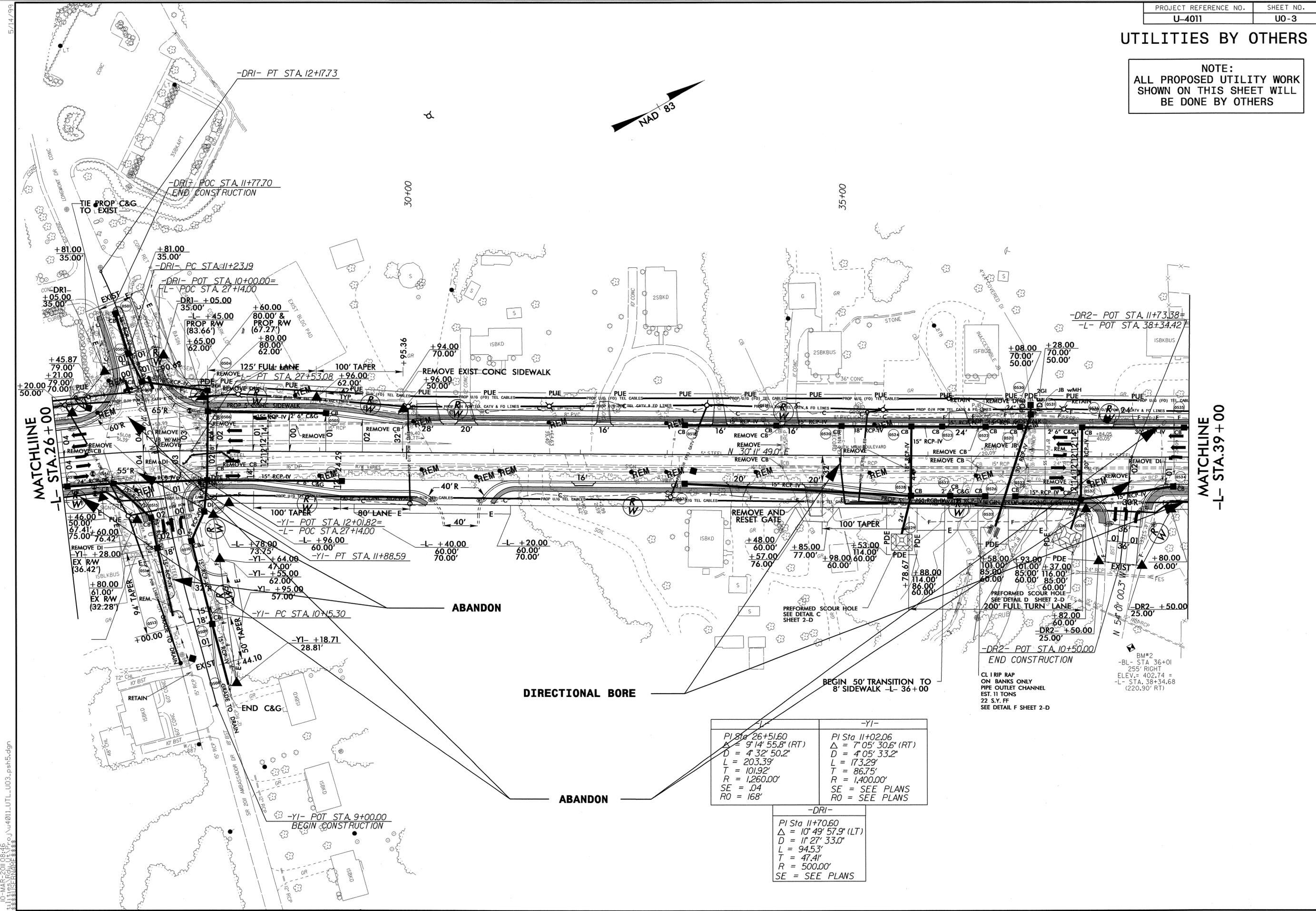
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E.	UTILITIES SECTION ENGINEER
R.B. WILKINS, P.E.	UTILITIES SQUAD LEADER PROJECT ENGINEER
JONG-TAE YOON	UTILITIES PROJECT DESIGNER

IO-MAR-2011 08:47
 R:\UTILITIES\PROJ\U-4011\UTL-UO1.dgn
 \$\$\$USERNAME\$\$\$

UTILITIES BY OTHERS

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



-YI-	
PI Sta 26+51.60	PI Sta 11+02.06
$\Delta = 9' 14' 55.8''$ (RT)	$\Delta = 7' 05' 30.6''$ (RT)
$D = 4' 32' 50.2''$	$D = 4' 05' 33.2''$
$L = 203.39'$	$L = 173.29'$
$T = 101.92'$	$T = 86.75'$
$R = 1,260.00'$	$R = 1,400.00'$
$SE = .04$	$SE = SEE PLANS$
$RO = 168'$	$RO = SEE PLANS$

-DRI-	
PI Sta 11+70.60	
$\Delta = 10' 49' 57.9''$ (LT)	
$D = 11' 27' 33.0''$	
$L = 94.53'$	
$T = 47.41'$	
$R = 500.00'$	
$SE = SEE PLANS$	

CL 1 RIP RAP
ON BANKS ONLY
PIPE OUTLET CHANNEL
EST. 11 TONS
22 S.Y. FF
SEE DETAIL F SHEET 2-D

BM#2
-BL- STA 36+01
255' RIGHT
ELEV. = 402.74 =
-L- STA. 38+34.68
(220.90' RT)

5/14/99
10-MAR-2011 08:45
R:\Utilities\4011\U03\psh5.dgn

