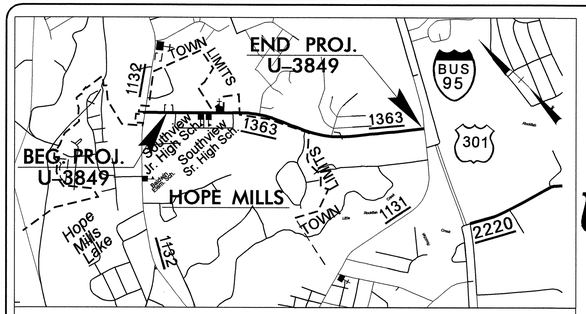
T.I.P. NO.	SHEET NO.
U-3849	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

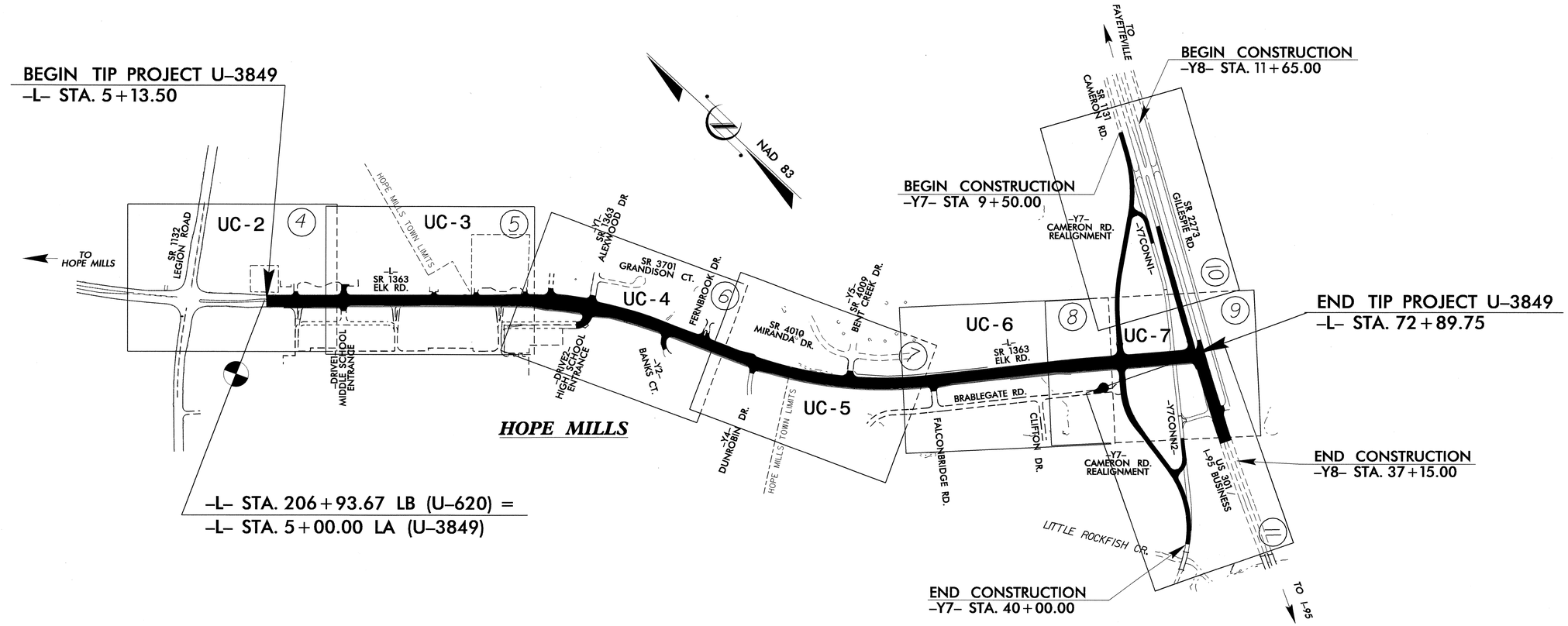


VICINITY MAP

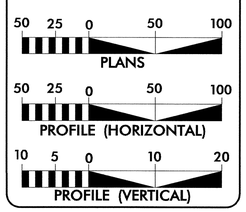
UTILITY CONSTRUCTION PLANS
CUMBERLAND COUNTY

LOCATION: HOPE MILLS – SR 1363 (ELK ROAD) FROM SR 1132 (LEGION ROAD) TO US 301/I-95 BUSINESS

TYPE OF WORK: UTILITY CONSTRUCTION WATER AND SANITARY SEWER



GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 – UC-7	UTILITY CONSTRUCTION PLAN SHEETS
UC-8 – UC-11	PROFILE SHEETS
UC-12	DETAILS SHEET

WATER AND SEWER OWNERS ON PROJECT

(1) WATER PWC OF FAYETTEVILLE
(2) SANITARY SEWER PWC OF FAYETTEVILLE

SEAL

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
John A. Nigro, P.E. — UTILITIES PROJECT DESIGNER

TIP PROJECT: U-3849

CONTRACT: C202086

10-FEB-2009 14:11
r:\utilities\ut\proj\u3849_ut_1_uc1_tsh.dgn
$$$$USERNAME$$$$

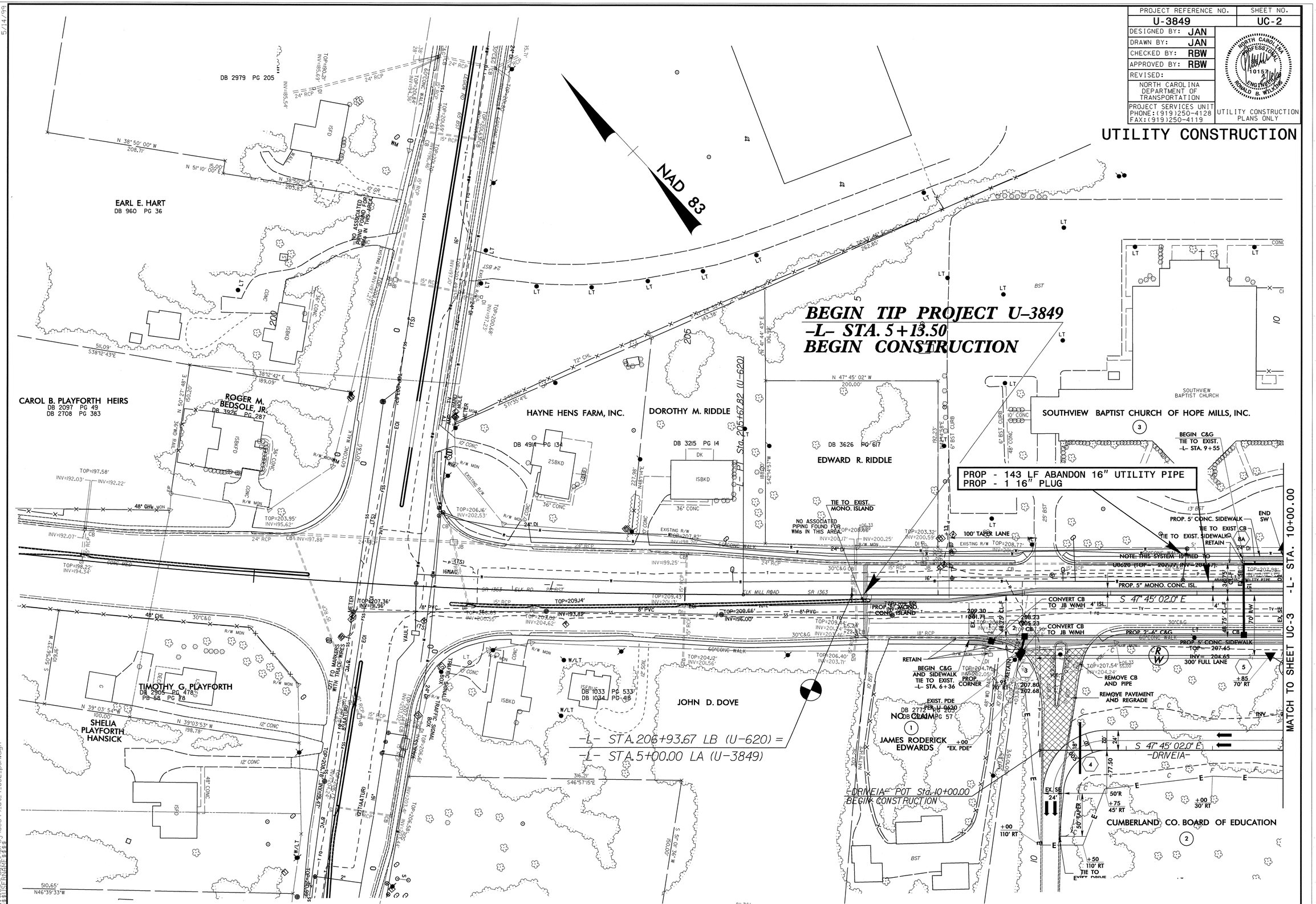
PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-2

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
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

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$$$$USERNAME$$$$

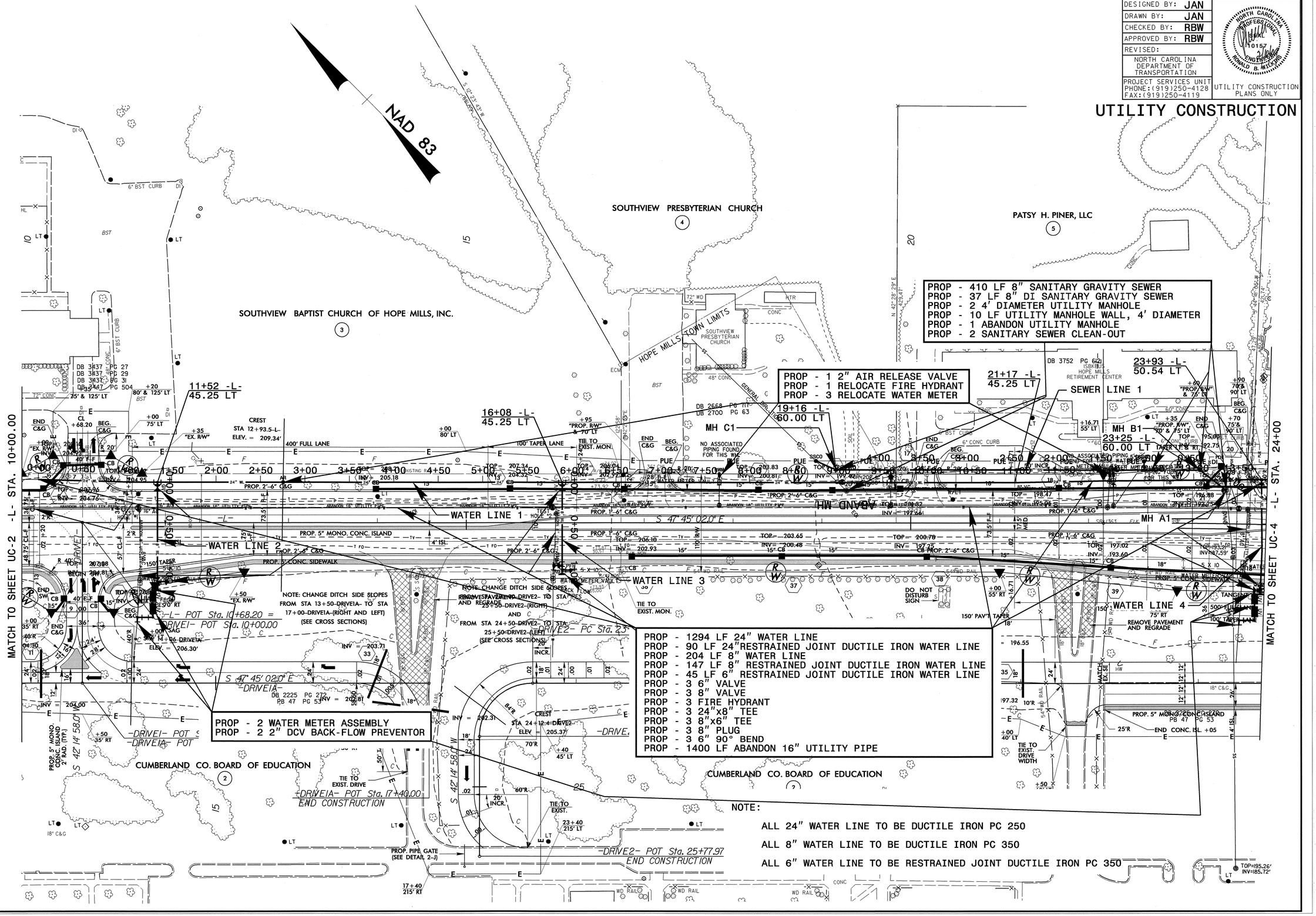
PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-3

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
PROJECT SERVICES UNIT
PHONE:(919)250-4128
FAX:(919)250-4119

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION



NOTE:

ALL 24" WATER LINE TO BE DUCTILE IRON PC 250

ALL 8" WATER LINE TO BE DUCTILE IRON PC 350

ALL 6" WATER LINE TO BE RESTRAINED JOINT DUCTILE IRON PC 350

5/14/99

10-FEB-2009 12:36
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PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-4

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

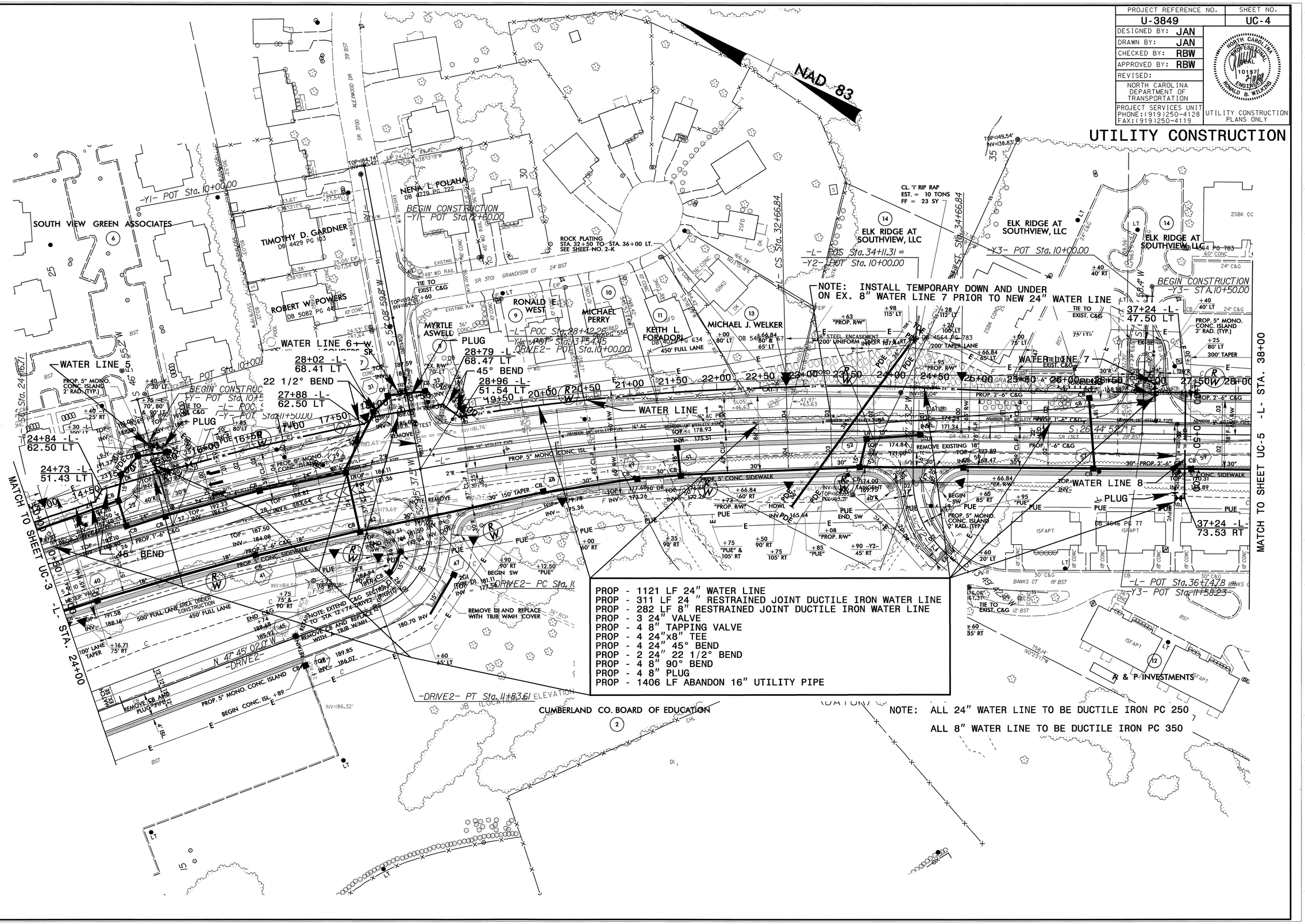
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROJECT SERVICES UNIT
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL SEAL 10197 ENGINEER RONALD B. WILKINS

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION



5/14/99

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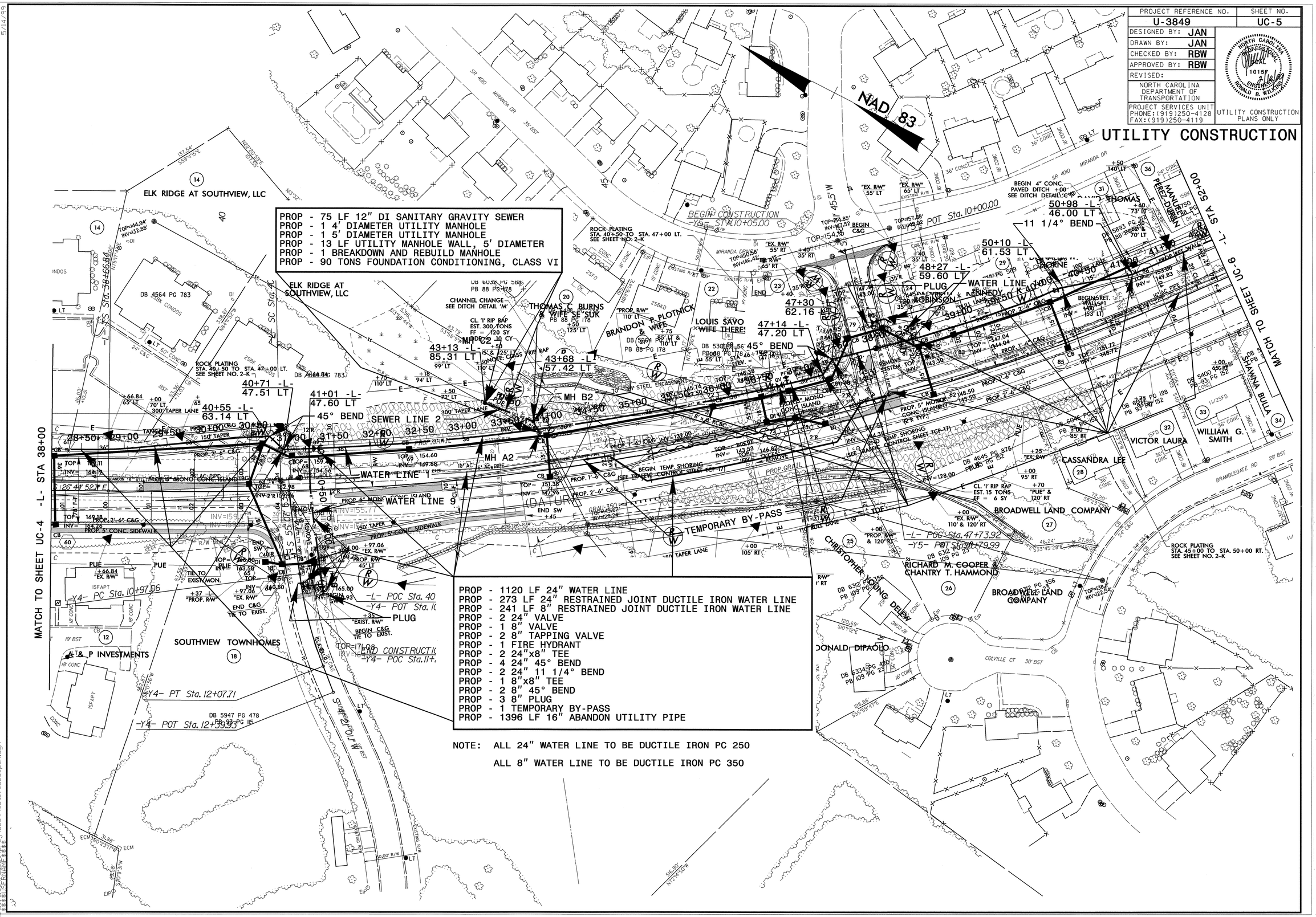
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-5
DESIGNED BY: JAN	
DRAWN BY: JAN	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE:(919)250-4128 FAX:(919)250-4119	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL SEAL 10157 ENGINEER RONALD B. WILLIAMS

UTILITY CONSTRUCTION



PROP - 75 LF 12" DI SANITARY GRAVITY SEWER
PROP - 1 4' DIAMETER UTILITY MANHOLE
PROP - 1 5' DIAMETER UTILITY MANHOLE
PROP - 13 LF UTILITY MANHOLE WALL, 5' DIAMETER
PROP - 1 BREAKDOWN AND REBUILD MANHOLE
PROP - 90 TONS FOUNDATION CONDITIONING, CLASS VI

PROP - 1120 LF 24" WATER LINE
PROP - 273 LF 24" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 241 LF 8" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 2 24" VALVE
PROP - 1 8" VALVE
PROP - 2 8" TAPPING VALVE
PROP - 1 FIRE HYDRANT
PROP - 2 24"x8" TEE
PROP - 4 24" 45° BEND
PROP - 2 24" 11 1/4° BEND
PROP - 1 8"x8" TEE
PROP - 2 8" 45° BEND
PROP - 3 8" PLUG
PROP - 1 TEMPORARY BY-PASS
PROP - 1396 LF 16" ABANDON UTILITY PIPE

NOTE: ALL 24" WATER LINE TO BE DUCTILE IRON PC 250
ALL 8" WATER LINE TO BE DUCTILE IRON PC 350

5/14/99

10-FEB-2009 12:56
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$$$$ICE_ENGINE$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-6

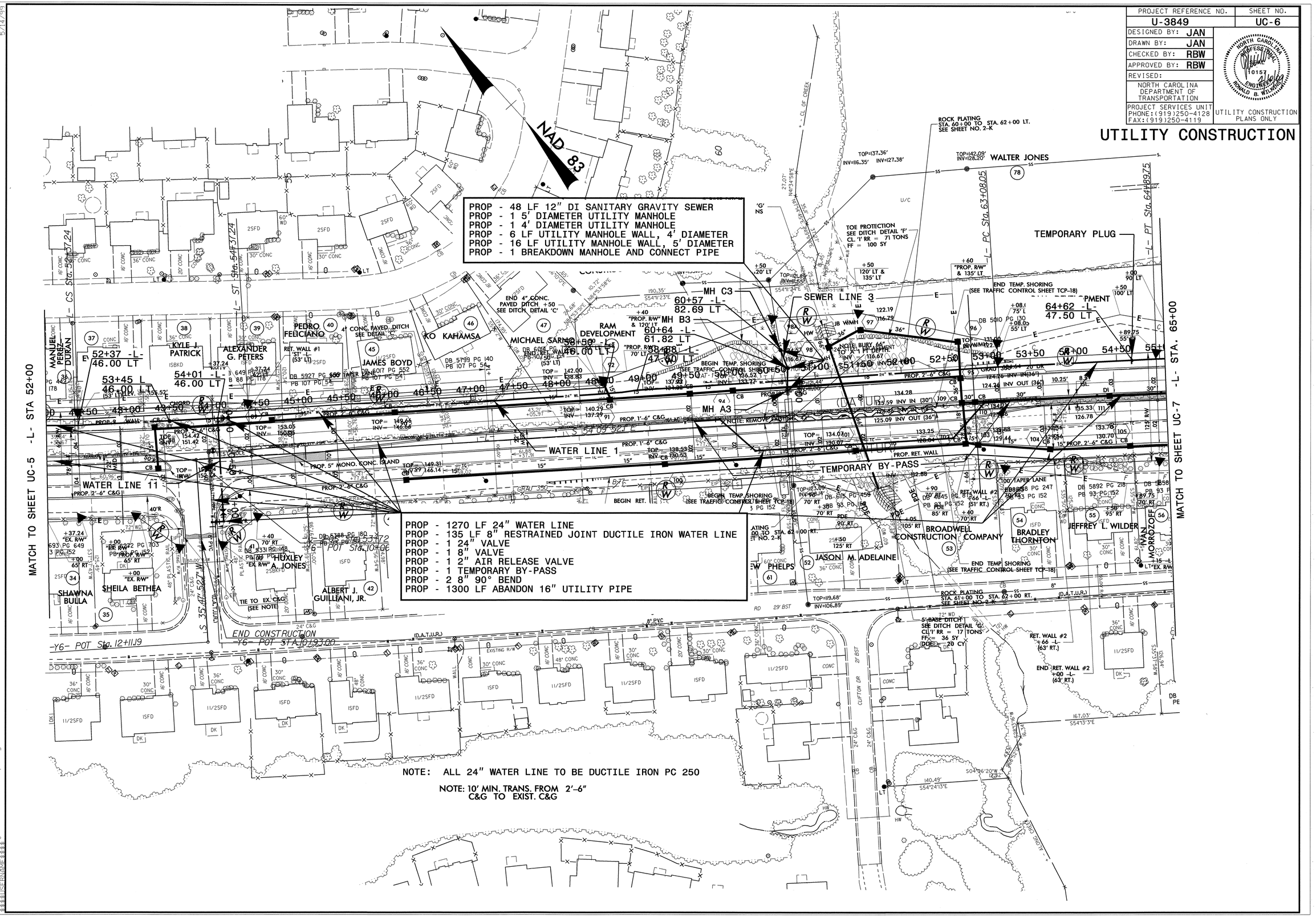
DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

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

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-7
DESIGNED BY: JAN	
DRAWN BY: JAN	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE:(919)250-4128 FAX:(919)250-4119	UTILITY CONSTRUCTION PLANS ONLY

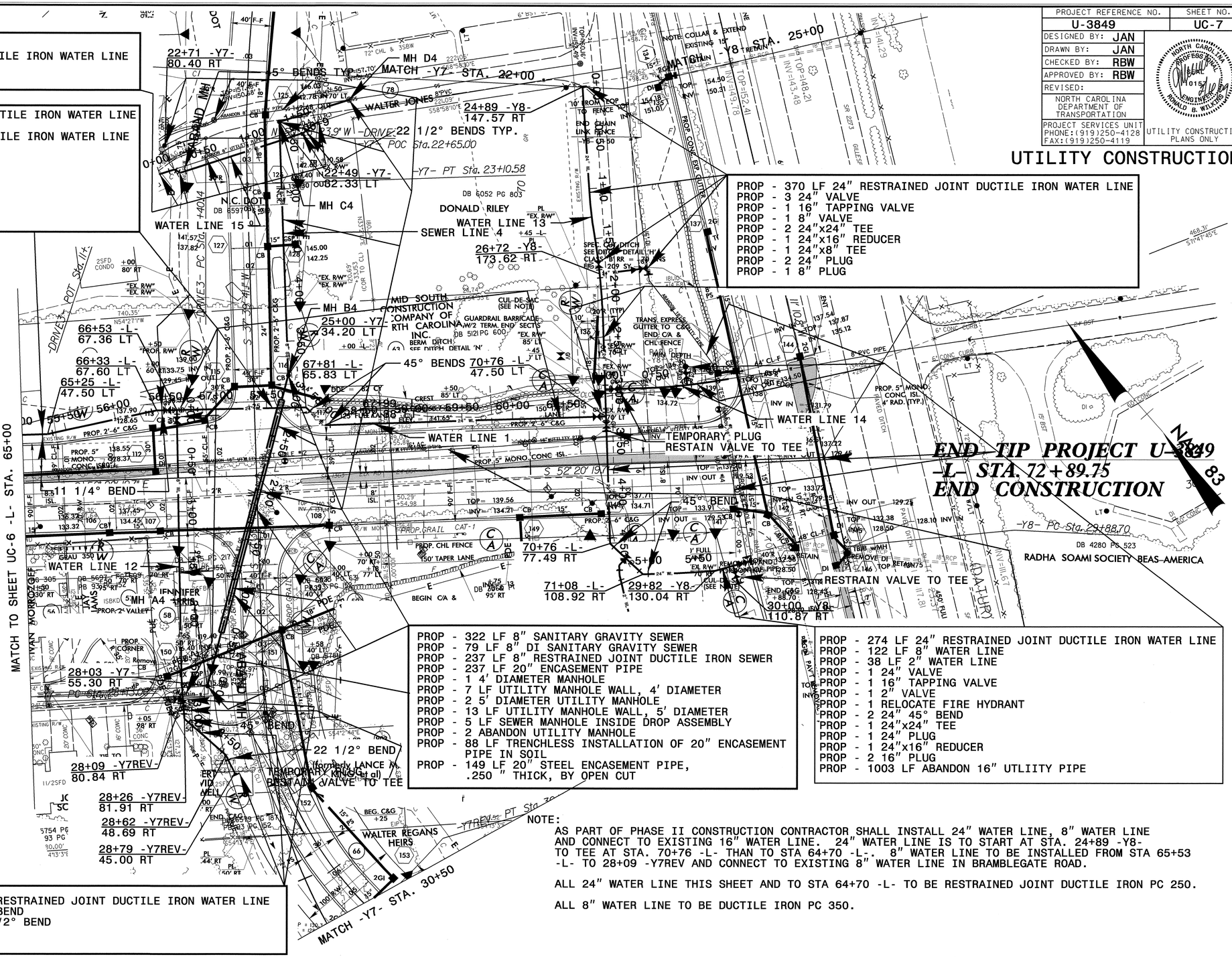
NORTH CAROLINA PROFESSIONAL SEAL 015 ENGINEER RONALD B. WILKINS

UTILITY CONSTRUCTION

PROP - 76 LF 8" WATER LINE
PROP - 94 LF 8" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 2 8" 45° BEND
PROP - 2 8" 22 1/2° BEND

PROP - 616 LF 24" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 110 LF 8" WATER LINE
PROP - 178 LF 8" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 1 24" VALVE
PROP - 3 8" VALVE
PROP - 1 24"x8" TEE
PROP - 1 8"x8" TEE
PROP - 2 24" 45° BEND
PROP - 2 24" 11 1/4° BEND
PROP - 1 24" PLUG
PROP - 1 8" PLUG

PROP - 370 LF 24" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 3 24" VALVE
PROP - 1 16" TAPPING VALVE
PROP - 1 8" VALVE
PROP - 2 24"x24" TEE
PROP - 1 24"x16" REDUCER
PROP - 1 24"x8" TEE
PROP - 2 24" PLUG
PROP - 1 8" PLUG



PROP - 322 LF 8" SANITARY GRAVITY SEWER
PROP - 79 LF 8" DI SANITARY GRAVITY SEWER
PROP - 237 LF 8" RESTRAINED JOINT DUCTILE IRON SEWER
PROP - 237 LF 20" ENCASEMENT PIPE
PROP - 1 4' DIAMETER MANHOLE
PROP - 7 LF UTILITY MANHOLE WALL, 4' DIAMETER
PROP - 2 5' DIAMETER UTILITY MANHOLE
PROP - 13 LF UTILITY MANHOLE WALL, 5' DIAMETER
PROP - 5 LF SEWER MANHOLE INSIDE DROP ASSEMBLY
PROP - 2 ABANDON UTILITY MANHOLE
PROP - 88 LF TRENCHLESS INSTALLATION OF 20" ENCASEMENT PIPE IN SOIL
PROP - 149 LF 20" STEEL ENCASEMENT PIPE, .250 " THICK, BY OPEN CUT

PROP - 274 LF 24" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 122 LF 8" WATER LINE
PROP - 38 LF 2" WATER LINE
PROP - 1 24" VALVE
PROP - 1 16" TAPPING VALVE
PROP - 1 2" VALVE
PROP - 1 RELOCATE FIRE HYDRANT
PROP - 2 24" 45° BEND
PROP - 1 24"x24" TEE
PROP - 1 24" PLUG
PROP - 1 24"x16" REDUCER
PROP - 2 16" PLUG
PROP - 1003 LF ABANDON 16" UTLIITY PIPE

PROP - 90 LF 8" RESTRAINED JOINT DUCTILE IRON WATER LINE
PROP - 1 8" 45° BEND
PROP - 1 8" 22 1/2° BEND
PROP - 1 8" PLUG

NOTE:

AS PART OF PHASE II CONSTRUCTION CONTRACTOR SHALL INSTALL 24" WATER LINE, 8" WATER LINE AND CONNECT TO EXISTING 16" WATER LINE. 24" WATER LINE IS TO START AT STA. 24+89 -Y8- TO TEE AT STA. 70+76 -L- THAN TO STA 64+70 -L-. 8" WATER LINE TO BE INSTALLED FROM STA 65+53 -L- TO 28+09 -Y7REV AND CONNECT TO EXISTING 8" WATER LINE IN BRAMBLEGATE ROAD.

ALL 24" WATER LINE THIS SHEET AND TO STA 64+70 -L- TO BE RESTRAINED JOINT DUCTILE IRON PC 250.

ALL 8" WATER LINE TO BE DUCTILE IRON PC 350.

10-FEB-2009 12:32
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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-8

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

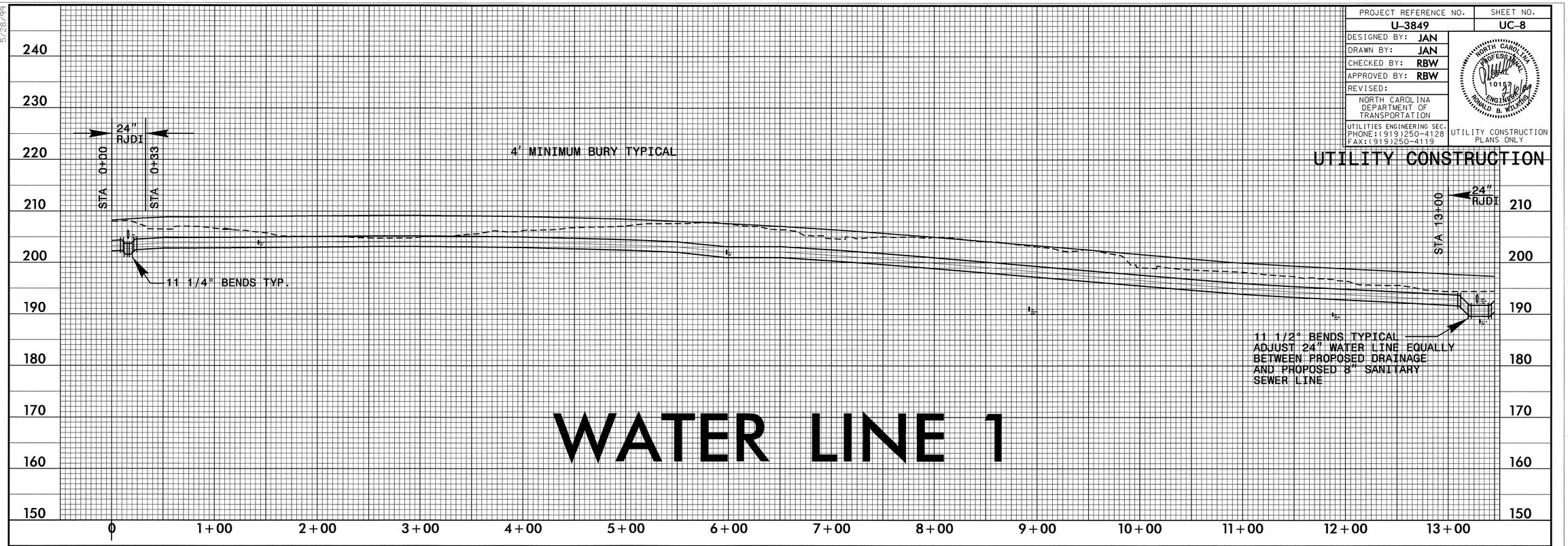
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

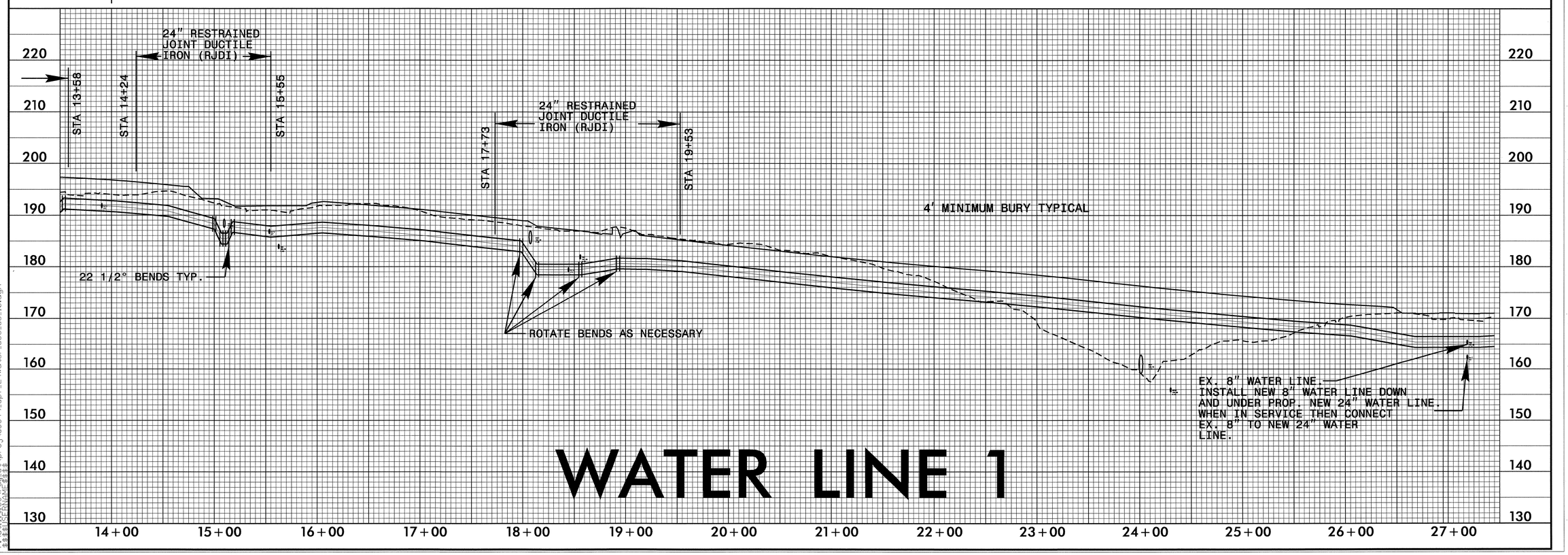
UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 10157 RONALD B. WILKINSON 2/6/09

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION





5/28/99

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-9

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

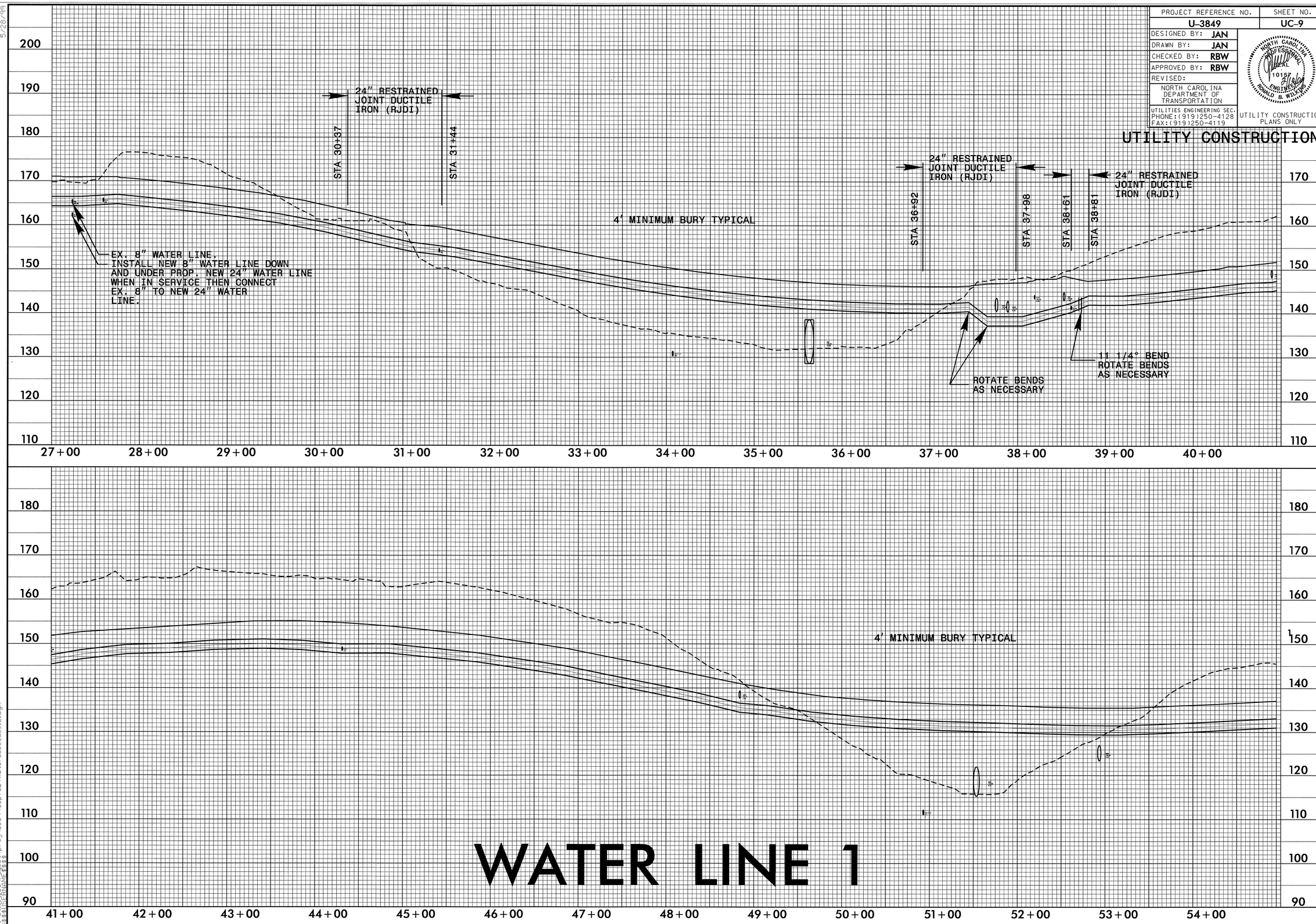
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL SEAL 10157 ENGINEER RONALD B. WILSON

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION



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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	U-10

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

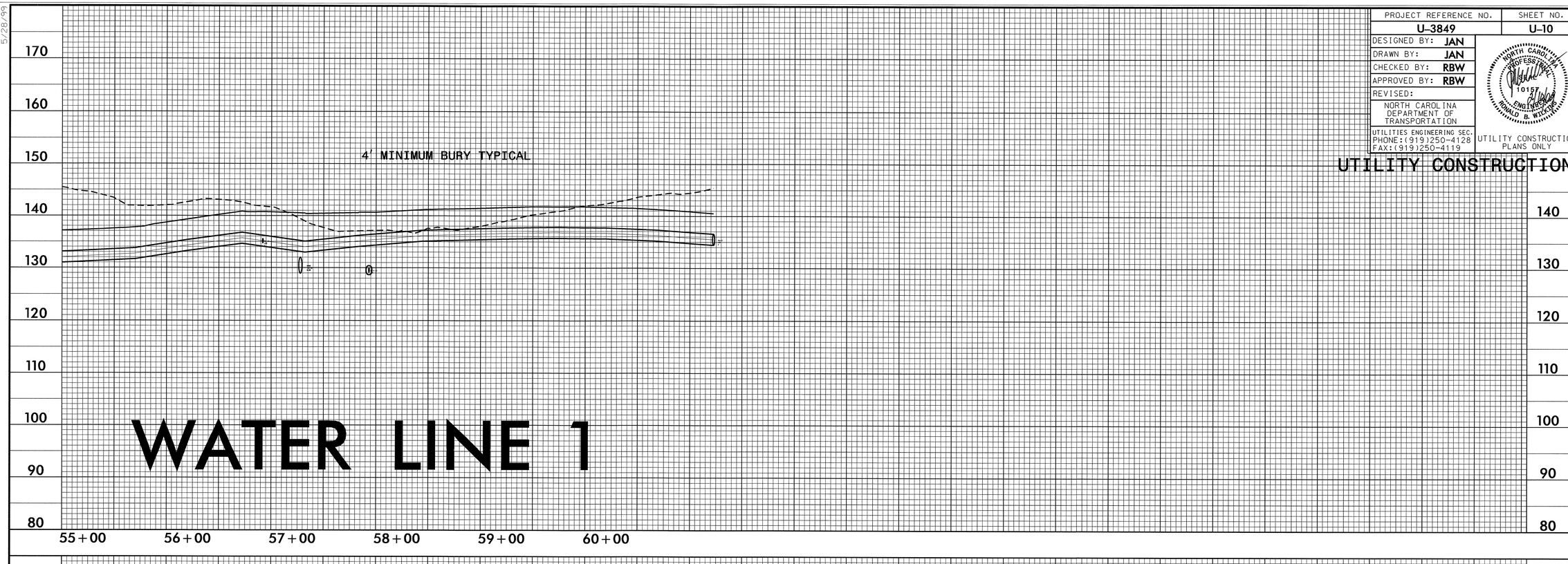
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

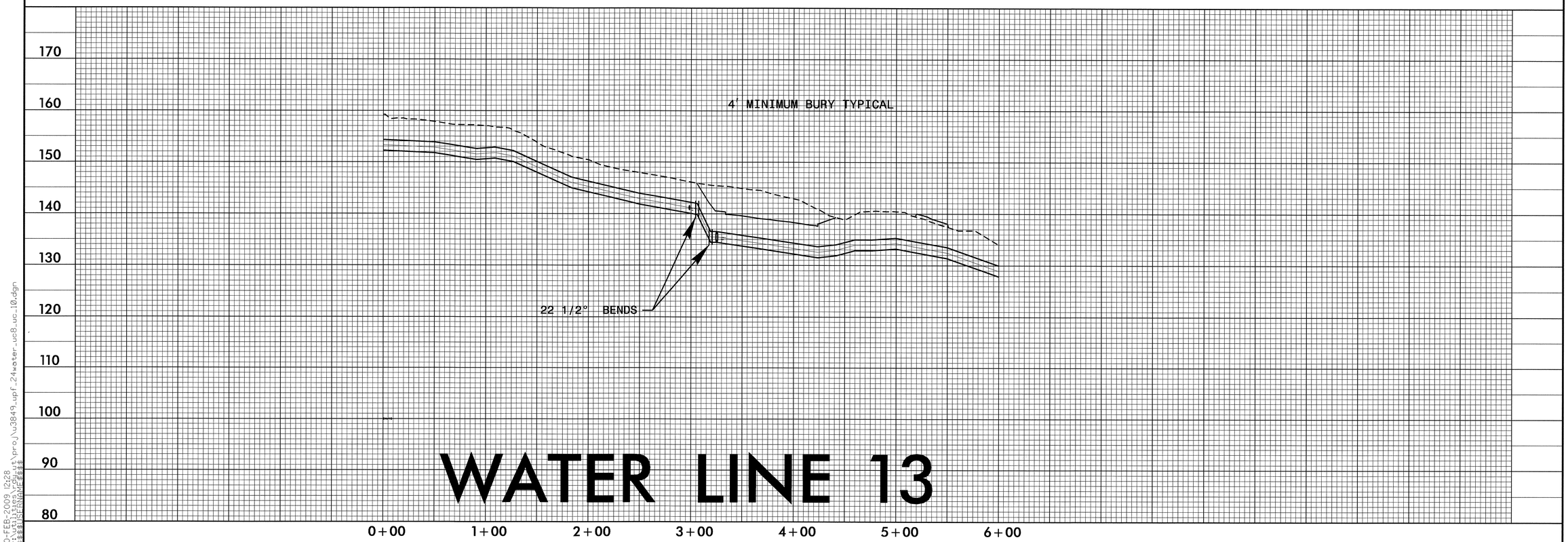
UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 10157 RONALD B. WILKINS

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION





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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-11

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

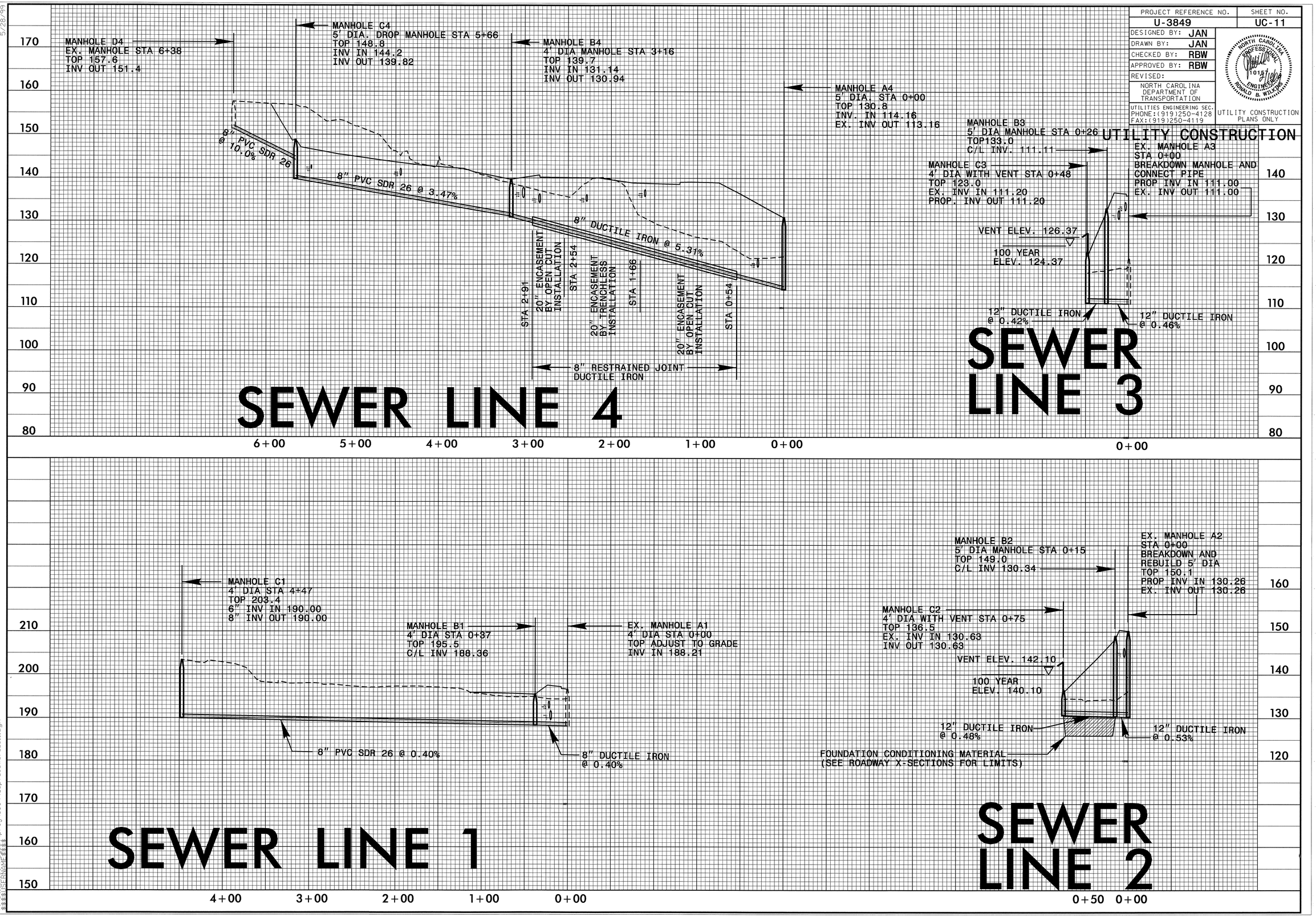
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL SEAL 10151 ENGINEER RONALD B. WILKINS

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION



5/28/99

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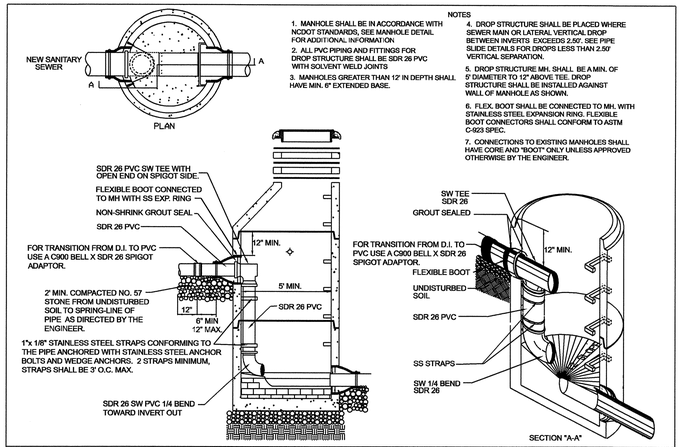
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3849	UC-12
DESIGNED BY: JAN	
DRAWN BY: JAN	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)250-4128 FAX:(919)250-4119	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL SEAL 10167 ENGINEER RONALD B. WILKINS

UTILITY CONSTRUCTION

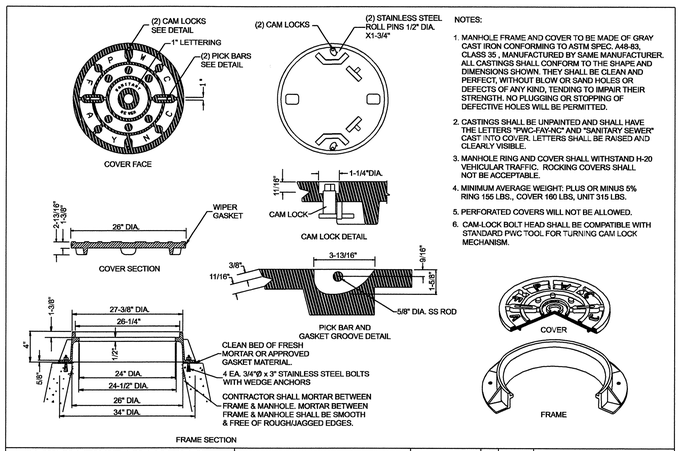


NOTES

1. MANHOLE SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS. SEE MANHOLE DETAIL FOR ADDITIONAL INFORMATION
2. ALL PVC PIPING AND FITTINGS FOR DROP STRUCTURE SHALL BE SDR 26 PVC WITH SOLVENT WELD JOINTS
3. MANHOLES GREATER THAN 12' IN DEPTH SHALL HAVE MIN. 6" EXTENDED BASE.
4. DROP STRUCTURE SHALL BE PLACED WHERE SEWER MAIN OR LATERAL VERTICAL DROP BETWEEN INVERTS EXCEEDS 2.50'. SEE PIPE SLIDE DETAILS FOR DROPS LESS THAN 2.50' VERTICAL SEPARATION.
5. DROP STRUCTURE MH. SHALL BE A MIN. OF 5' DIAMETER TO 12" ABOVE TEE. DROP STRUCTURE SHALL BE INSTALLED AGAINST WALL OF MANHOLE AS SHOWN.
6. FLEX. BOOT SHALL BE CONNECTED TO MH. WITH STAINLESS STEEL EXPANSION RING. FLEXIBLE BOOT CONNECTORS SHALL CONFORM TO ASTM C-923 SPEC.
7. CONNECTIONS TO EXISTING MANHOLES SHALL HAVE CORE AND "BOOT" ONLY UNLESS APPROVED OTHERWISE BY THE ENGINEER.

INTERIOR DROP STRUCTURE GRAVITY SEWER MAINS & LATERALS				NO	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.5	DWG. BY PWC		1.	10/23/03	REVISED NOTE
	DATE 1/1/07	APPROVED BY J.E.G.		2.	JAN 05	REVISED DROP MATERIAL
				3.	JAN 07	REVISED ADAPTOR, NOTE 2.

FILE NAME: DROPMH.DWG



NOTES:

1. MANHOLE FRAME AND COVER TO BE MADE OF GRAY CAST IRON CONFORMING TO ASTM SPEC. A48-83, CLASS 35 , MANUFACTURED BY SAME MANUFACTURER. ALL CASTINGS SHALL CONFORM TO THE SHAPE AND DIMENSIONS SHOWN. THEY SHALL BE CLEAN AND PERFECT, WITHOUT BLOW OR SAND HOLES OR DEFECTS OF ANY KIND, TENDING TO IMPAIR THEIR STRENGTH. NO PLUGGING OR STOPPING OF DEFECTIVE HOLES WILL BE PERMITTED.
2. CASTINGS SHALL BE UNPAINTED AND SHALL HAVE THE LETTERS "PWC-PAYNE" AND "SANITARY SEWER" CAST INTO COVER. LETTERS SHALL BE RAISED AND CLEARLY VISIBLE.
3. MANHOLE RING AND COVER SHALL WITHSTAND H-20 VEHICULAR TRAFFIC. ROCKING COVERS SHALL NOT BE ACCEPTABLE.
4. MINIMUM AVERAGE WEIGHT: PLUS OR MINUS 5% RING 155 LBS., COVER 160 LBS, UNIT 315 LBS.
5. PERFORATED COVERS WILL NOT BE ALLOWED.
6. CAM-LOCK BOLT HEAD SHALL BE COMPATIBLE WITH STANDARD PVC TOOL FOR TURNING CAM LOCK MECHANISM.

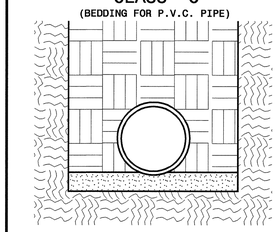
STANDARD NON-TRAFFIC AREA MANHOLE RING AND COVER WITH WIPER GASKET & CAM LOCK				NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.6	DWG. BY PWC				
	DATE 1/1/05	APPROVED BY J.E.G.				

FILE NAME: RING COVER.DWG

MAXIMUM TRENCH WIDTH AT TOP OF PIPE

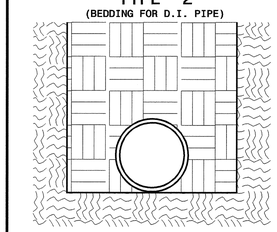
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

CLASS "C"
(BEDDING FOR P.V.C. PIPE)

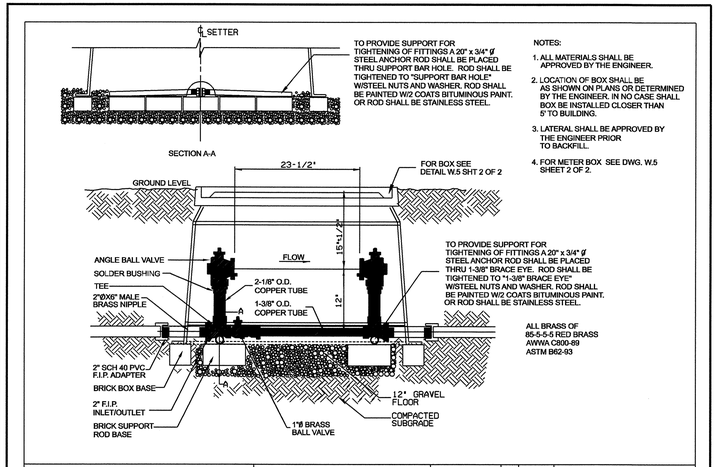


PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

TYPE "2"
(BEDDING FOR D.I. PIPE)



PIPE BEDDED IN FLAT-BOTTOM TRENCH. 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 APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

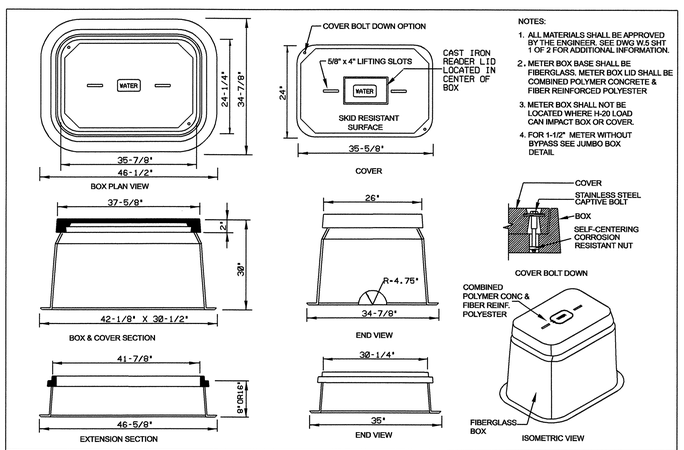


NOTES:

1. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.
2. LOCATION OF BOX SHALL BE AS SHOWN ON PLANS OR DETERMINED BY THE ENGINEER. IN NO CASE SHALL BOX BE INSTALLED CLOSER THAN 5' TO BUILDING.
3. LATERAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO BACKFILL.
4. FOR METER BOX SEE DWG. W.5 SHEET 2 OF 2.

2" COPPERSETTER W/BYPASS 23-1/2" METER SPACING				NO.	DATE	REVISION
SHEET NO. 1 OF 2	DWG. NO. W.5	DWG. BY PWC				
	DATE 1/1/05	APPROVED BY J.E.G.				

FILE NAME: 2 METER SETTER.DWG



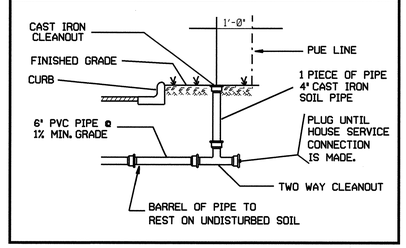
NOTES:

1. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. SEE DWG W.5 SHT 1 OF 2 FOR ADDITIONAL INFORMATION.
2. METER BOX BASE SHALL BE FIBERGLASS. METER BOX LID SHALL BE COMBINED POLYMER CONCRETE & FIBER REINFORCED POLYESTER
3. METER BOX SHALL NOT BE LOCATED WHERE H-20 LOAD CAN IMPACT BOX OR COVER.
4. FOR 1-1/2" METER WITHOUT BYPASS SEE JUMBO BOX DETAIL

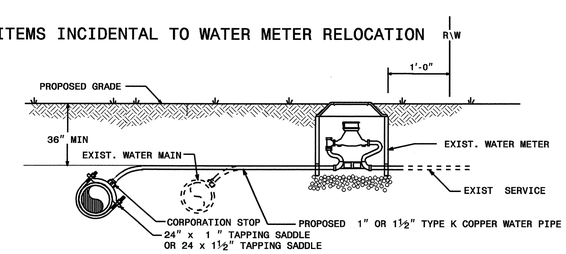
1-1/2" & 2" BY-PASS METER BOX				NO.	DATE	REVISION
SHEET NO. 2 OF 2	DWG. NO. W.5	DWG. BY PWC				
	DATE 1/1/05	APPROVED BY J.E.G.				

FILE NAME: 2 METER SETTER.DWG

SANITARY SEWER CLEANOUT



NOTE:
ALL ITEMS INCIDENTAL TO WATER METER RELOCATION



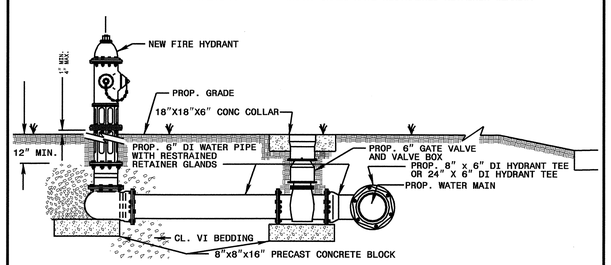
NOTES:

1. INSTALLATION SHALL INCLUDE 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 INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE

RELOCATE WATER METER TO NEW WATER MAIN DETAIL

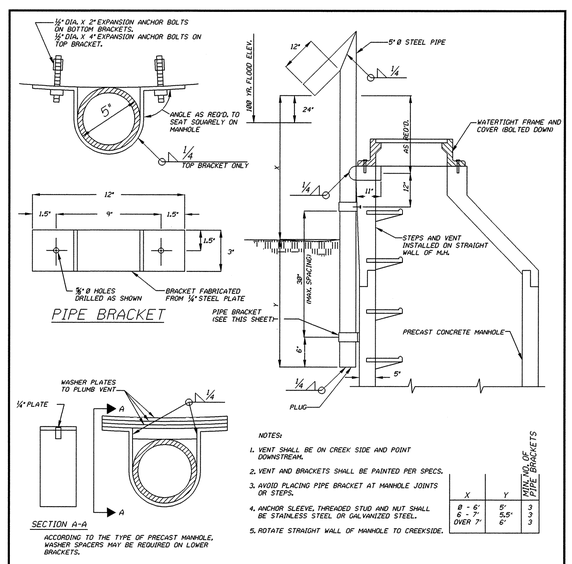
GENERAL:

1. LOCATE FIRE HYDRANT BEHIND OF CURB AND GUTTER SECTIONS AND/OR 6 FEET BACK OF DITCH. WHERE THERE IS NO DITCH, THE HYDRANT SHALL BE PLACED AS FAR AS POSSIBLE FROM PAVEMENT EDGE WITHIN RIGHT OF WAY OUTER LIMITS. PUMPER NOZZLE SHALL BE PERPINDICULAR TO ROADWAY.
2. ALL CONCRETE SHALL BE CLASS "B".
3. BOLTS, NUTS, AND DRAIN PORTS TO BE FREE OF CONCRETE.
4. HYDRANT BRANCH SHALL HAVE SAME COVER AS THE MAIN (36" MIN. BRANCH).
5. ALL PIPE JOINTS BETWEEN THE VALVE AND THE HYDRANT SHALL HAVE RESTRAINED RETAINER GLANDS.



NOTE: ALL ITEMS INCIDENTAL TO FIRE HYDRANT

FIRE HYDRANT DETAIL
(FOR NEW MAIN)



NOTES:

1. VENT SHALL BE ON CREEK SIDE AND POINT DOWNSTREAM.
2. VENT AND BRACKETS SHALL BE PAINTED PER SPECS.
3. AVOID PLACING PIPE BRACKET AT MANHOLE JOINTS OR STEPS.
4. ANCHOR SLEEVE, THREADED STUD AND NUT SHALL BE STAINLESS STEEL OR GALVANIZED STEEL.
5. ROTATE STRAIGHT WALL OF MANHOLE TO CREEKSIDE.

X	Y	MIN. NO. OF PIPE BRACKETS
0 - 6'	5'	3
6 - 7'	5.5'	3
OVER 7'	6'	3

VENTED MANHOLE DETAIL

5/14/99

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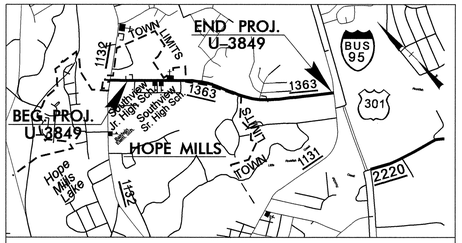
T.I.P. NO.	SHEET NO.
U-3849	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

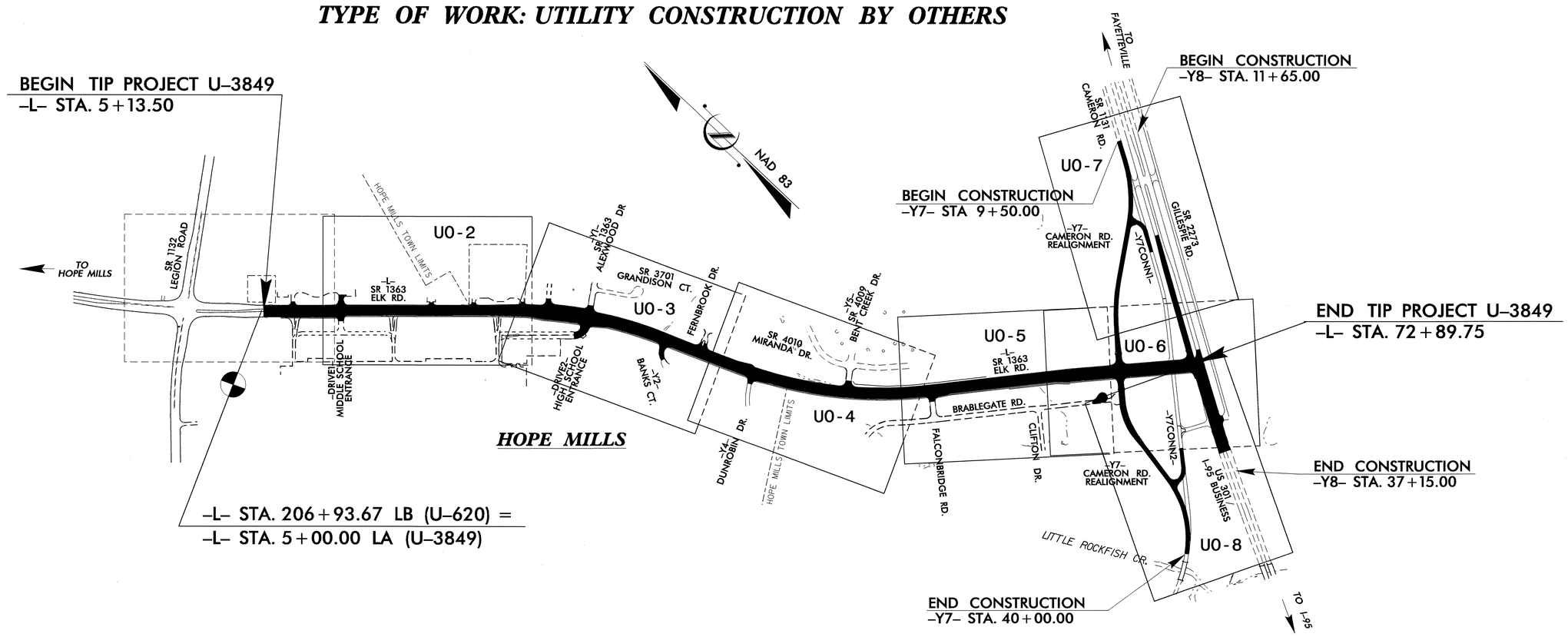
UTILITY BY OTHERS PLANS
CUMBERLAND COUNTY



VICINITY MAP

LOCATION: HOPE MILLS – SR 1363 (ELK ROAD) FROM SR 1132 (LEGIONROAD) TO US 301/I-95 BUSINESS

TYPE OF WORK: UTILITY CONSTRUCTION BY OTHERS



TIP PROJECT: U-3849

CONTRACT:

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 0
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.	*DESCRIPTION*
UO-1	*TITLE SHEET*
UO-2 THRU UO-8	*UTILITY BY OTHERS PLAN SHEETS*

UTILITY OWNERS ON PROJECT

(1) CITY OF FAYETTEVILLE PUBLIC WORKS COMMISSION – POWER(DISTRIBUTION)
(2) CENTURYLINK – TELEPHONE
(3) DELTACOM – COMMUNICATIONS
(4) TIME WARNER CABLE – CATV

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*
R. B. Wilkins, P.E.	*UTILITIES SQUAD LEADER PROJECT ENGINEER*
John A. Nigro, P.E.	*UTILITIES PROJECT DESIGNER*

09/08/99
27-JAN-2010 15:04
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PROJECT REFERENCE NO.	SHEET NO.
U-3849	U0-2

UTILITIES BY OTHERS

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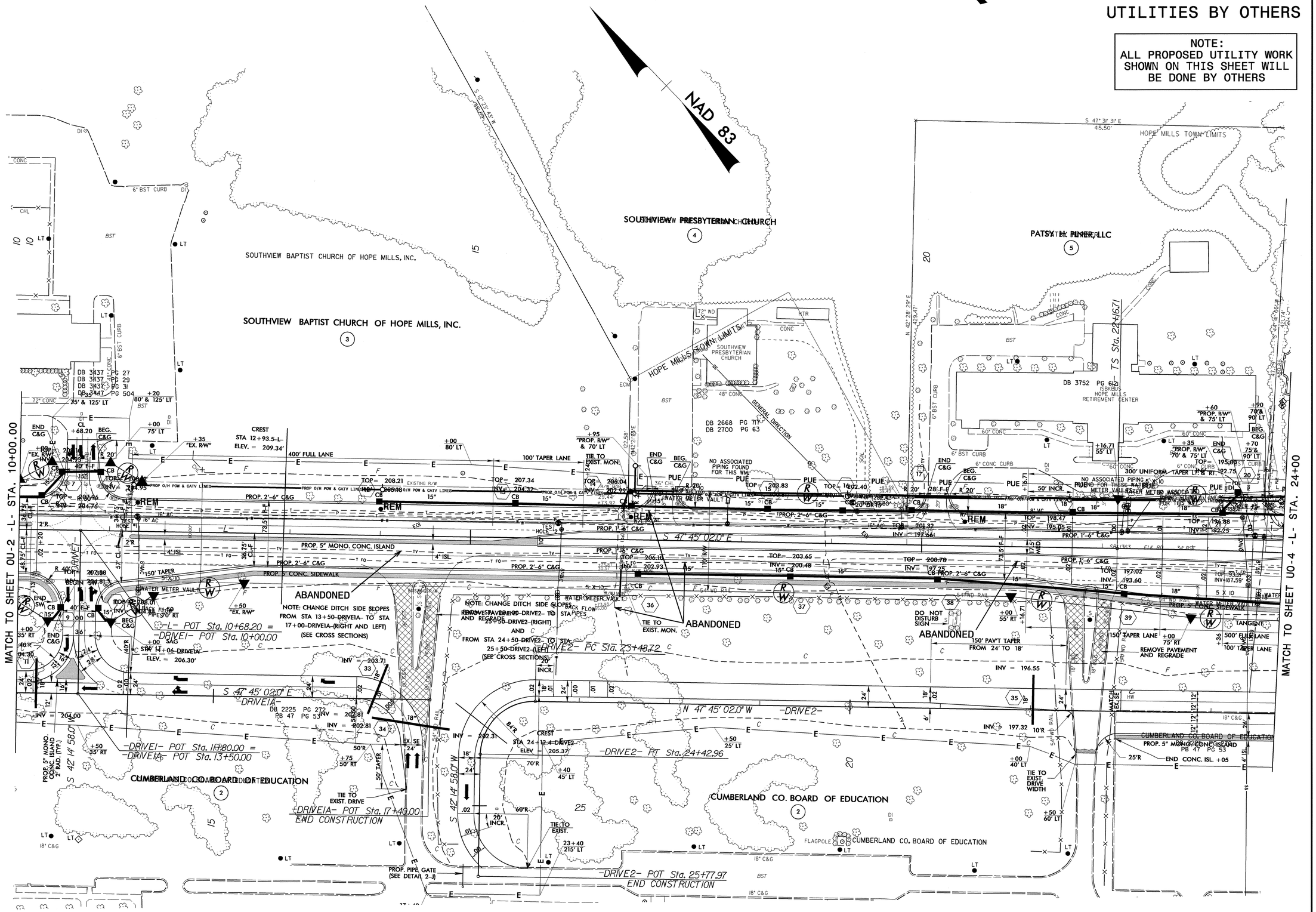
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



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PROJECT REFERENCE NO.	SHEET NO.
U-3849	U0-3

UTILITIES BY OTHERS

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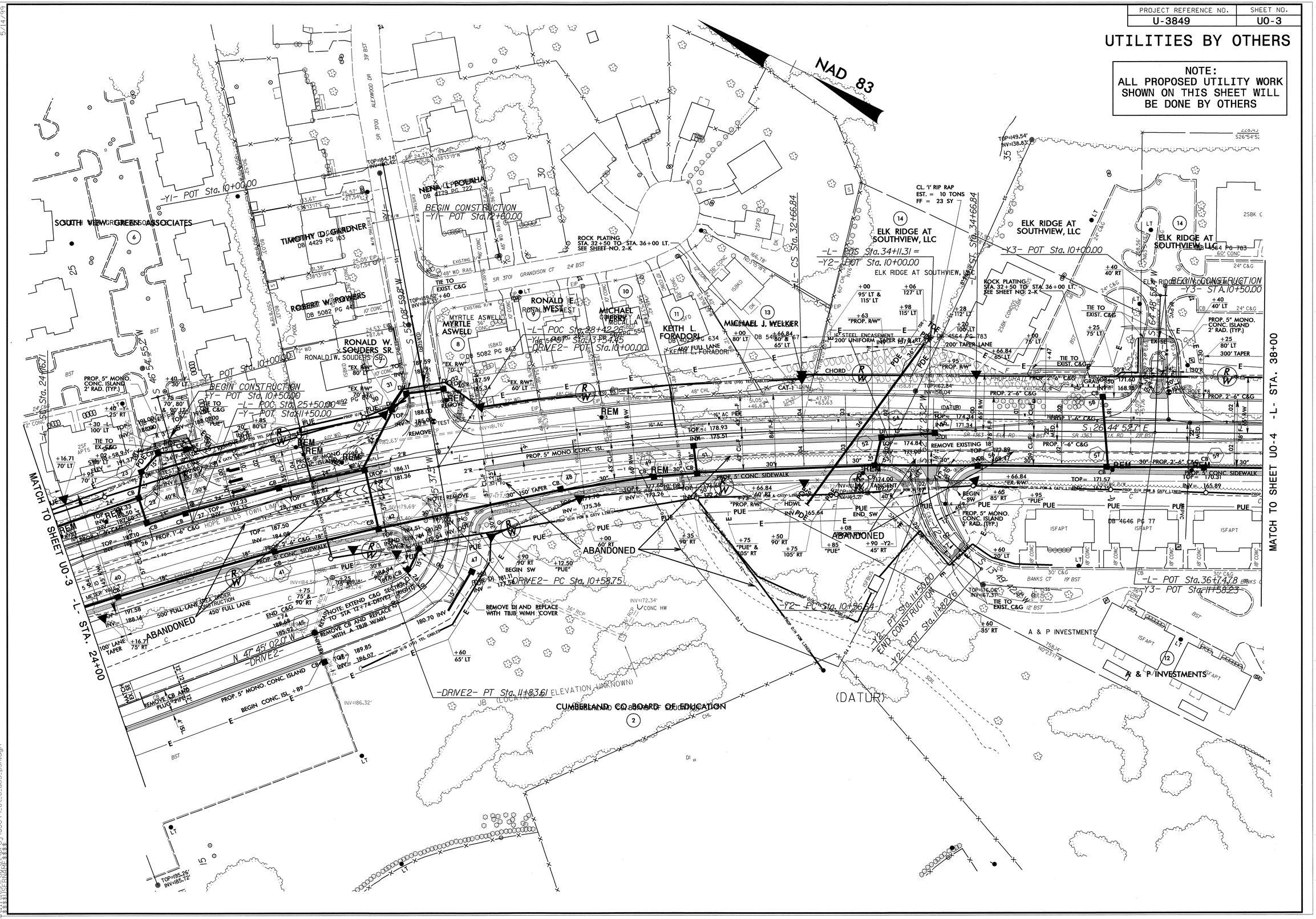

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PROJECT REFERENCE NO.	SHEET NO.
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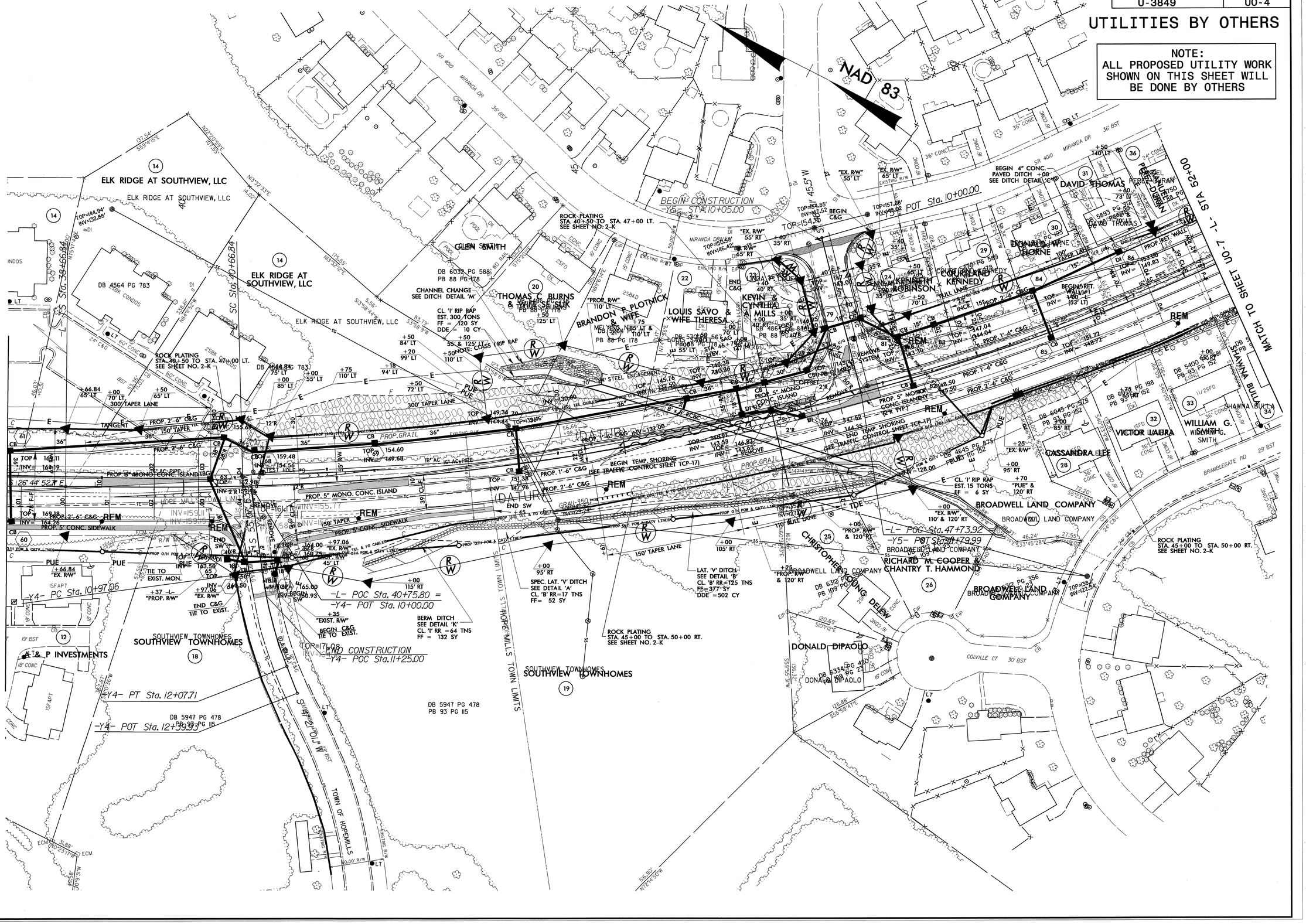

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PROJECT REFERENCE NO.	SHEET NO.
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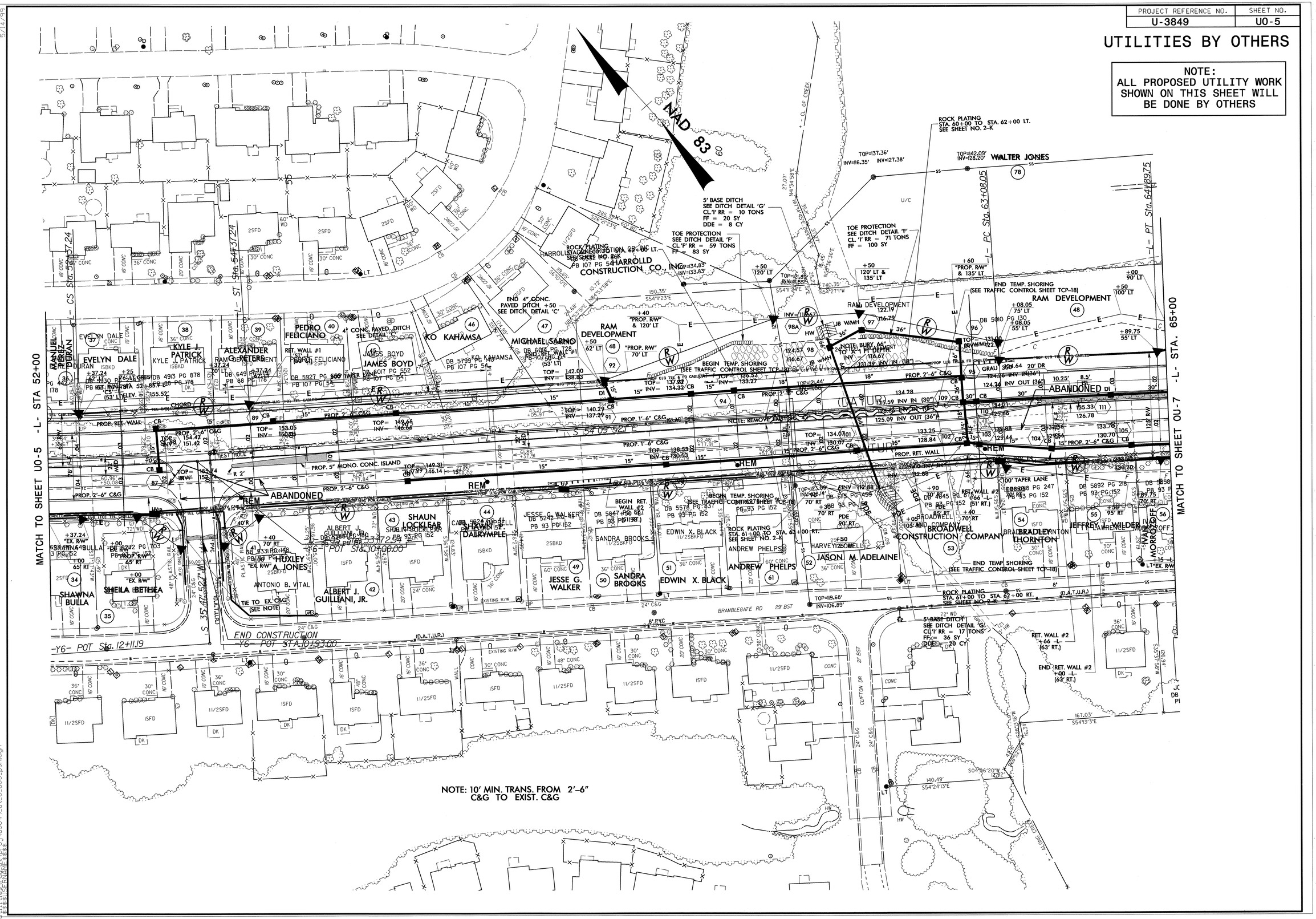

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UTILITIES BY OTHERS

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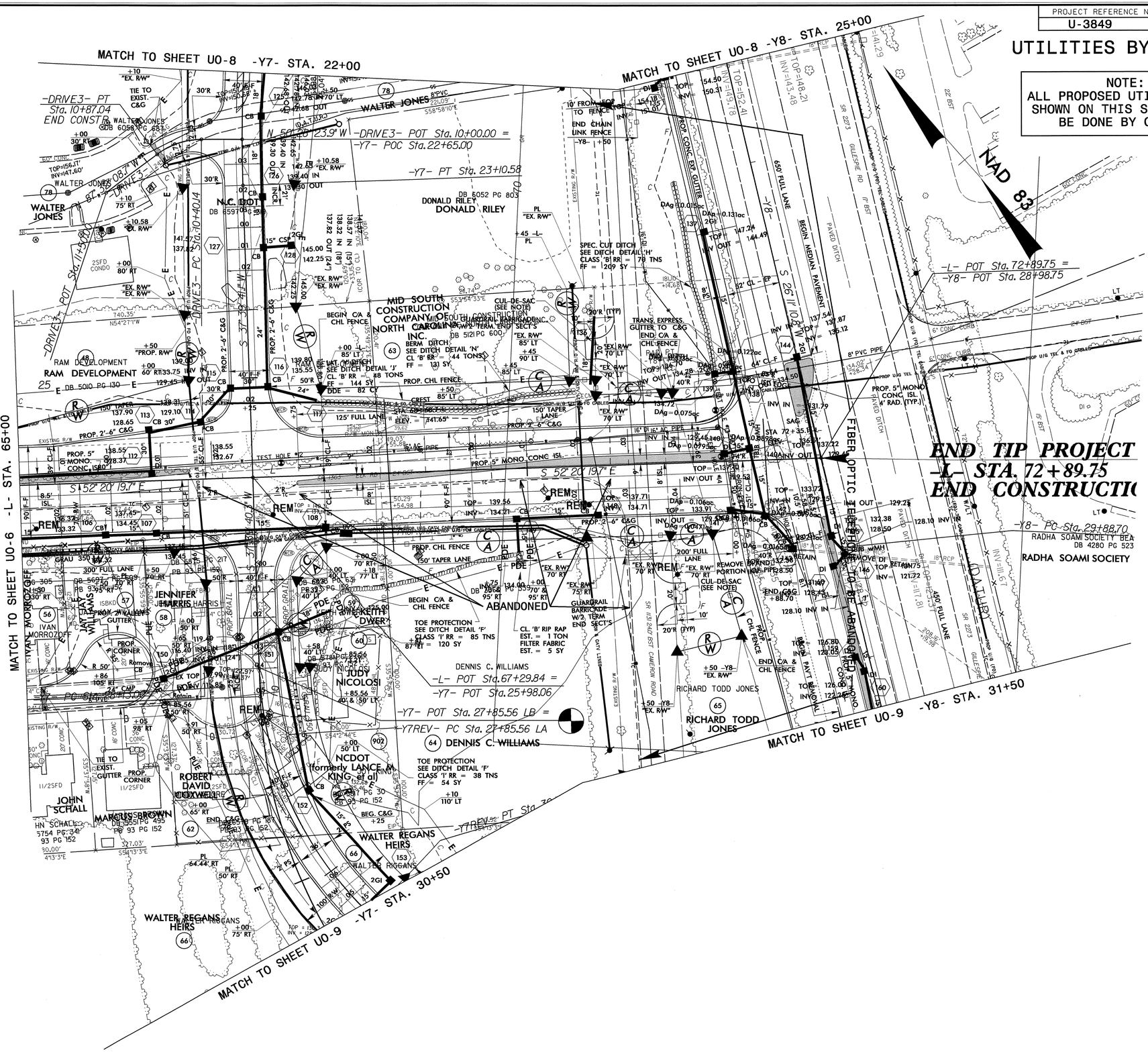

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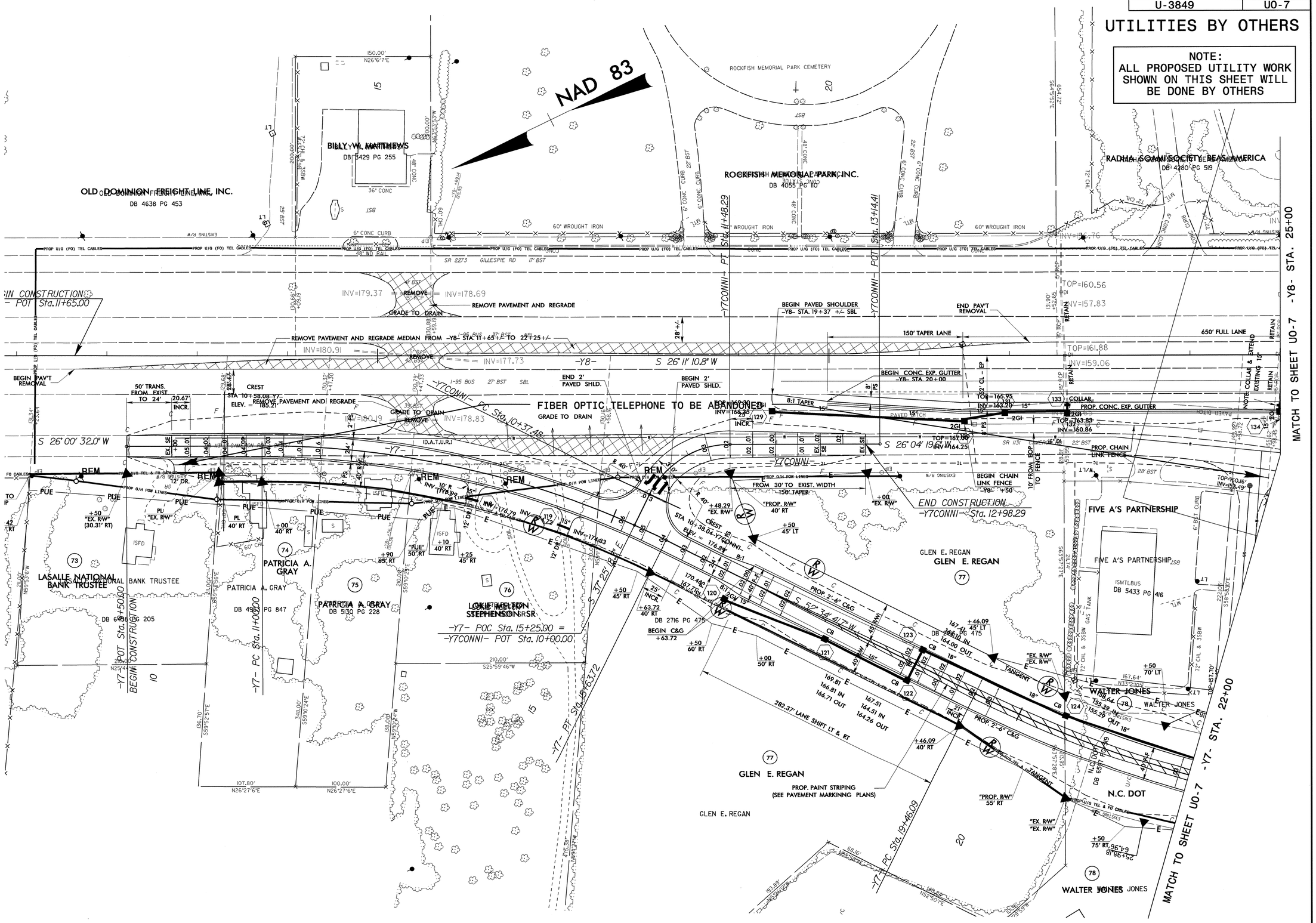

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PROJECT REFERENCE NO.	SHEET NO.
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UTILITIES BY OTHERS

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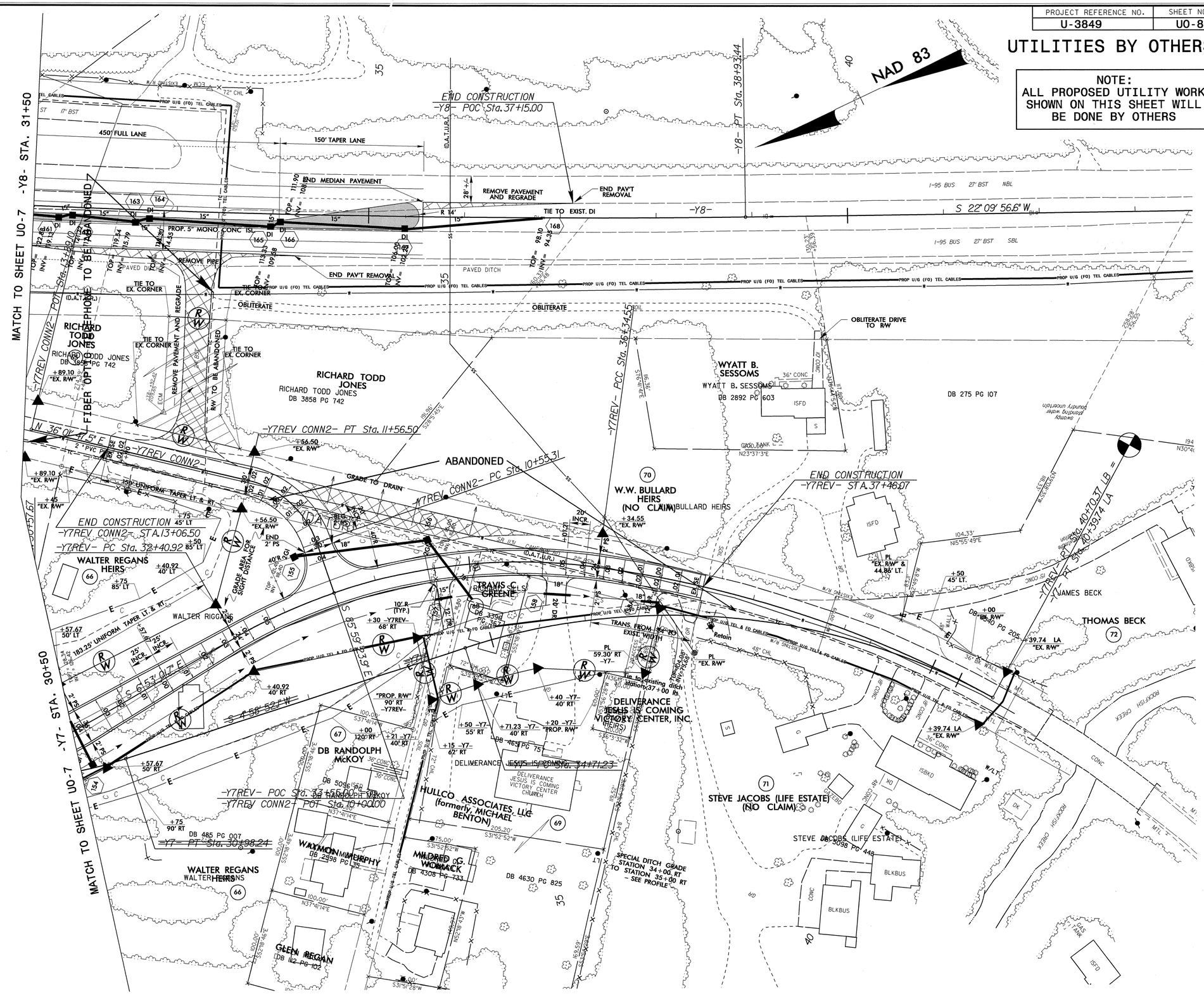

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