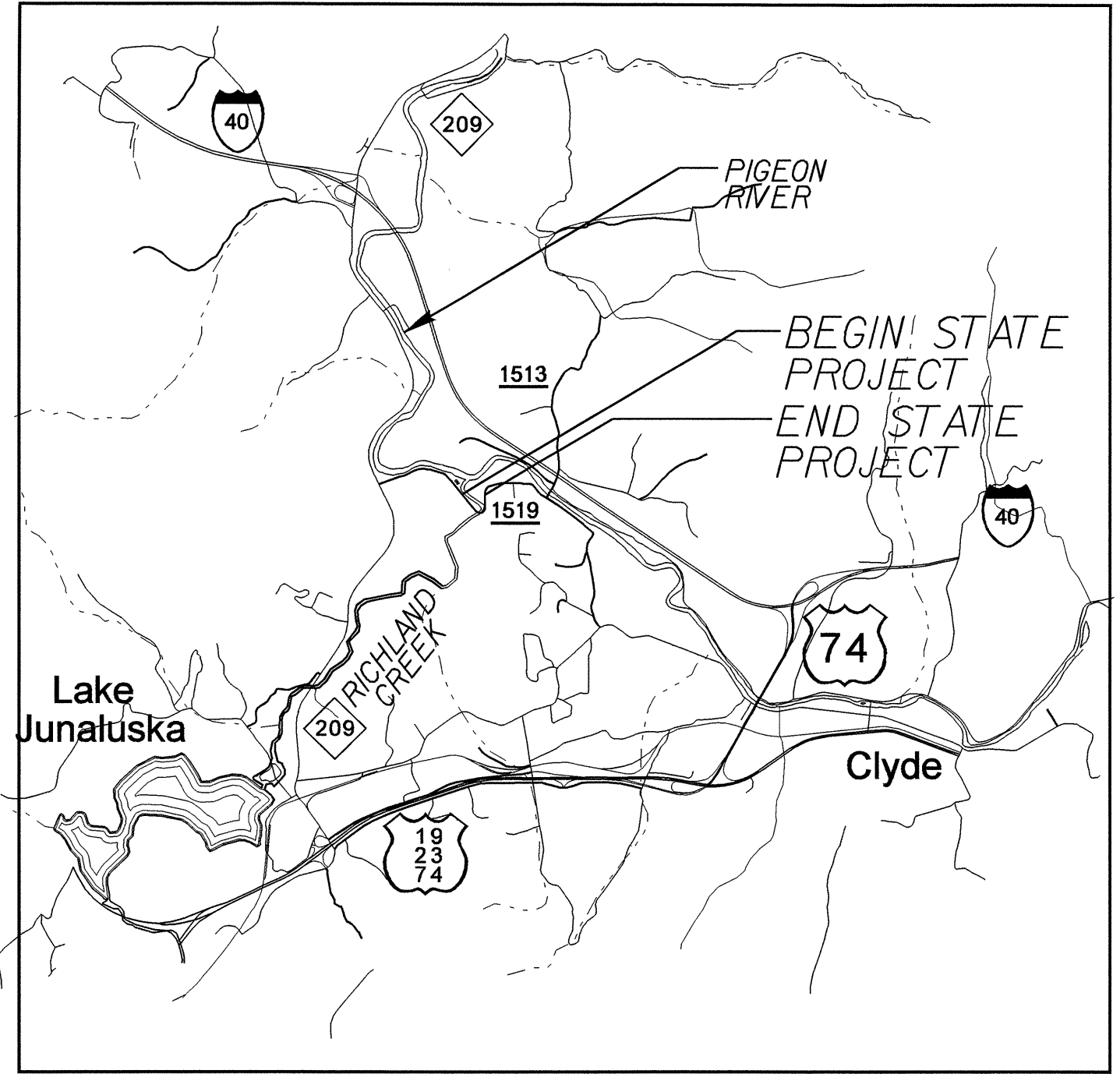


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
HAYWOOD COUNTY**

LOCATION: BRIDGE NO. 211 OVER RICHLAND CREEK ON SR 1519
TYPE OF WORK: UTILITIES RELOCATION

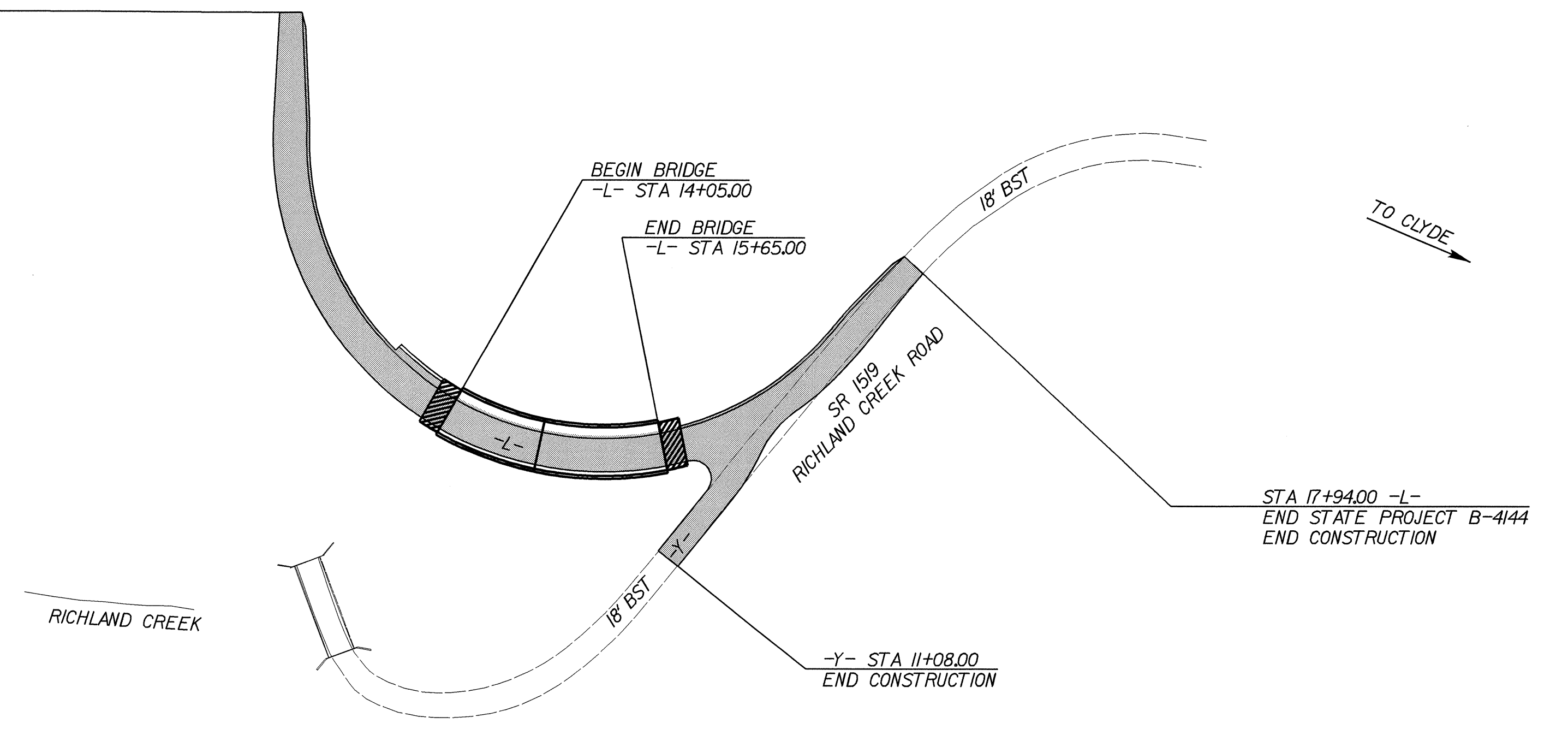


TIP PROJECT: B-4144

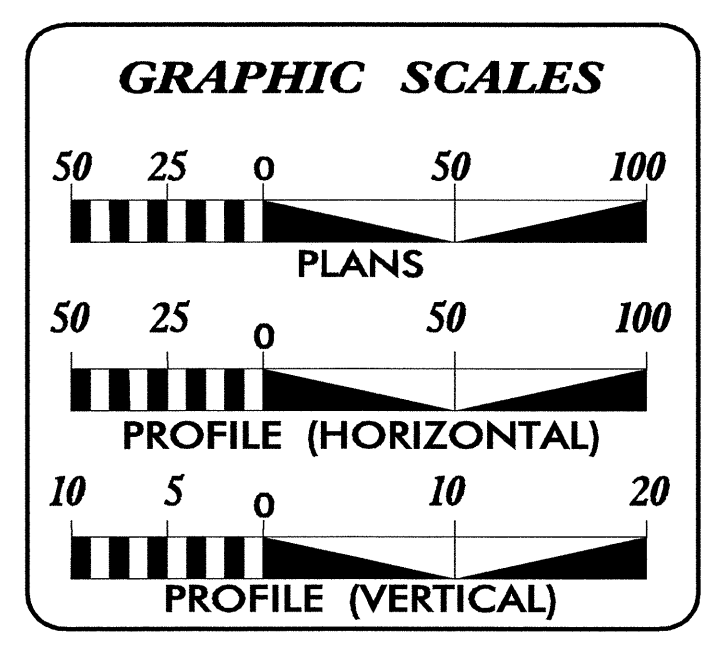
WBS: 33493

NC GRID
NAD 8395
TO LAKE
JUNALUSKA
18' BST

STA 10+75.00 -L-
BEGIN STATE PROJECT B-4144
BEGIN CONSTRUCTION



NC GRID
NAD 8395



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN SHEET

WATER AND SEWER OWNERS ON PROJECT

(1) WATER JUNALUSKA SANITARY DISTRICT
(2) SANITARY SEWER JUNALUSKA SANITARY DISTRICT

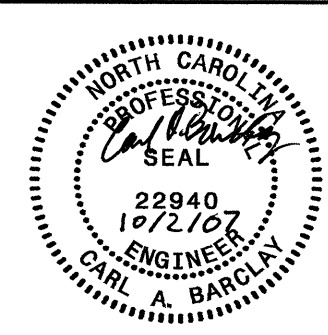
SEAL

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

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 259-4128
FAX (919) 259-4119

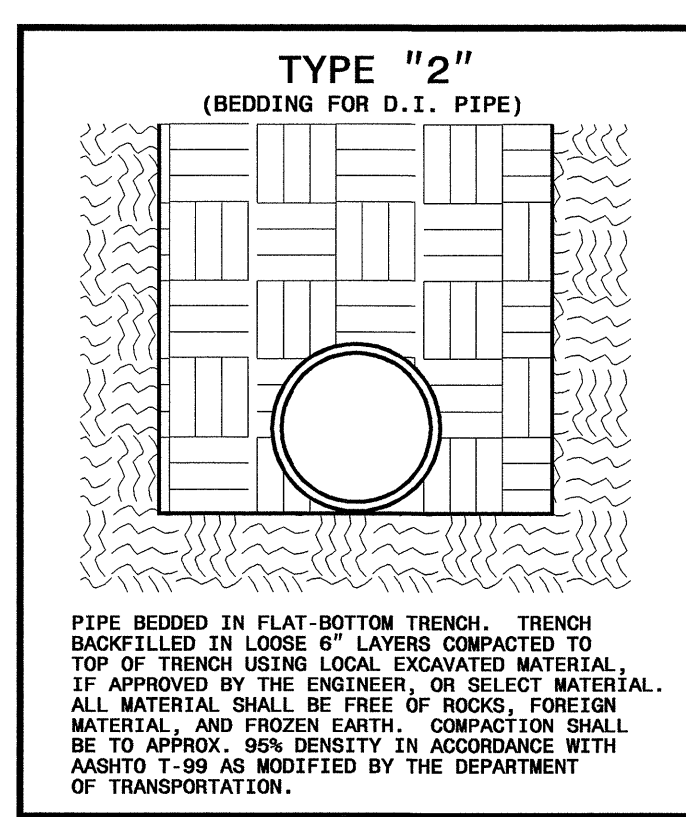
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Ali Koucheki UTILITIES PROJECT DESIGNER

02-OCT-2007 13:40
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\$\$\$\$\$USERNAME\$\$\$\$\$



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		



BRIDGE DESCRIPTION
WOOD DECK / BST SURFACE / WOOD RAILS
8 STEEL BEAMS / 4 WOOD COLUMNS W/ CONC. BASE
CONC. HEAD & WINGWALLS (EAST END)
CONC. HEAD & WINGWALLS (WEST END)

WATERWAY: JUNALUSKA SANITARY DISTRICT
588 OLD OLYDE ROAD
LAKE JUNALUSKA, NC 28745
(828)452-1178

POWER: HEMC
1560 ASHEVILLE ROAD
WAYNESVILLE, NC 28786
(828)452-1238
(800)951-6088

TELEPHONE: BELLSOUTH
79 WOODFIN PLACE
ASHEVILLE, NC 28802
(828)270-2355

STEVEN WAYNE ROSS
DB 417 PG 666

NOTE: REMOVAL OF EXISTING 8" PVC GRAVITY SEWER PIPE SHALL BE INCIDENTAL TO THE INSTALLATION OF NEW 8" DI GRAVITY SEWER PIPE

PROP. 298' OF 8" DI GRAVITY SEWER PIPE. INSTALL THE PIPE BETWEEN THE TWO EXISTING MANHOLES IN THE SAME GRADE AND ALIGNMENT.

UTILITY CONSTRUCTION

-L-

PI Sta 18+06.37
 $\Delta = 14' 12' 09.0" (LT)$
 $D = 25' 27' 53.2"$
 $L = 554.50'$
 $T = 638.97'$
 $R = 225.00'$
 $SE = 0.045$
 $RO = 74.25'$

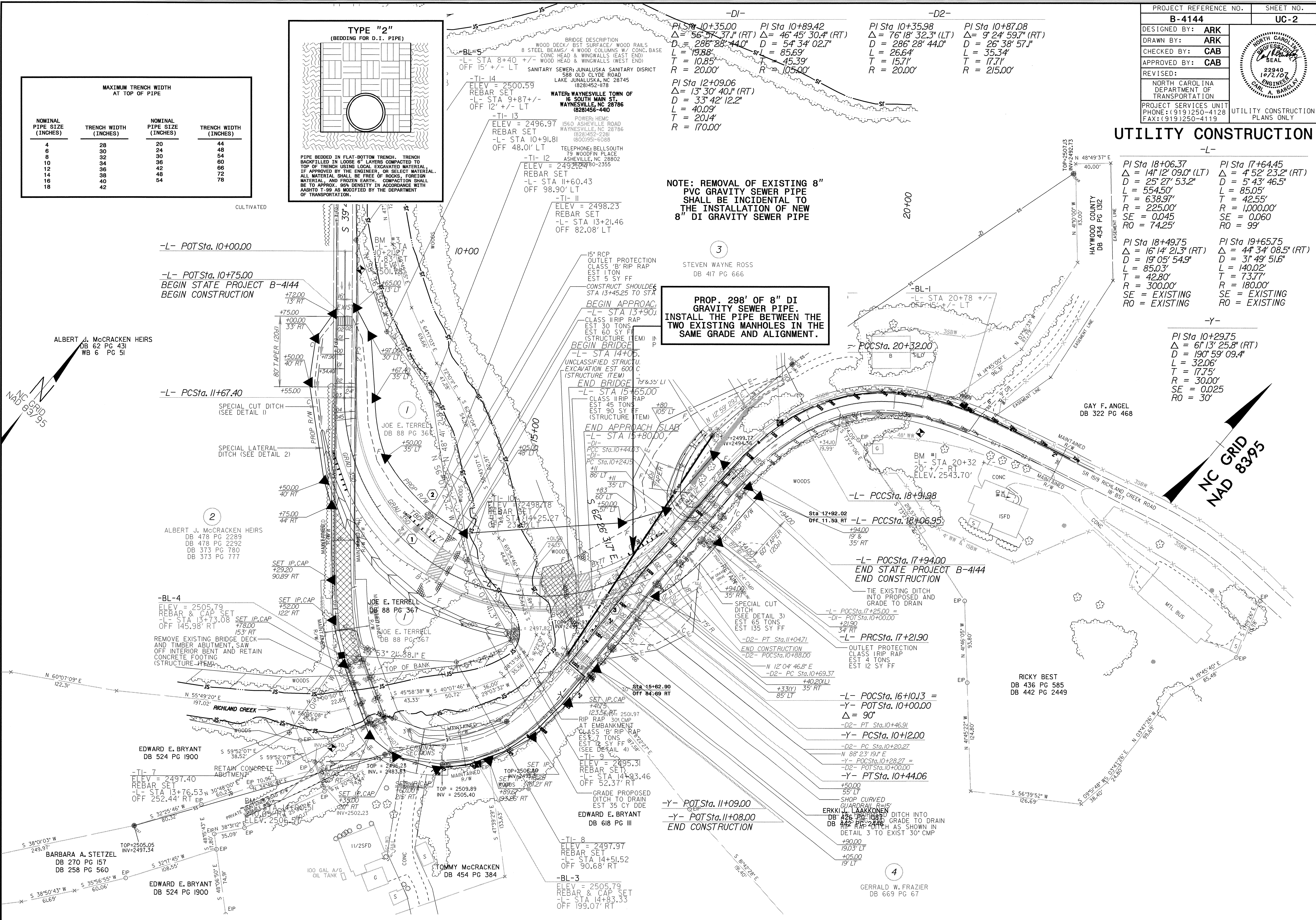
PI Sta 17+64.45
 $\Delta = 4' 52' 23.2" (RT)$
 $D = 5' 43' 46.5"$
 $L = 85.05'$
 $T = 42.55'$
 $R = 1,000.00'$
 $SE = 0.060$
 $RO = 99'$

PI Sta 18+49.75
 $\Delta = 16' 14' 21.3" (RT)$
 $D = 19' 05' 54.9"$
 $L = 85.03'$
 $T = 42.80'$
 $R = 300.00'$
 $SE = EXISTING$
 $RO = EXISTING$

PI Sta 19+65.75
 $\Delta = 4' 34' 08.5" (RT)$
 $D = 3' 49' 51.6"$
 $L = 140.02'$
 $T = 73.77'$
 $R = 180.00'$
 $SE = EXISTING$
 $RO = EXISTING$

-Y-

PI Sta 10+29.75
 $\Delta = 6' 13' 25.8" (RT)$
 $D = 190' 59' 09.4"$
 $L = 32.06'$
 $T = 17.75'$
 $R = 30.00'$
 $SE = 0.025$
 $RO = 30'$



5/14/09

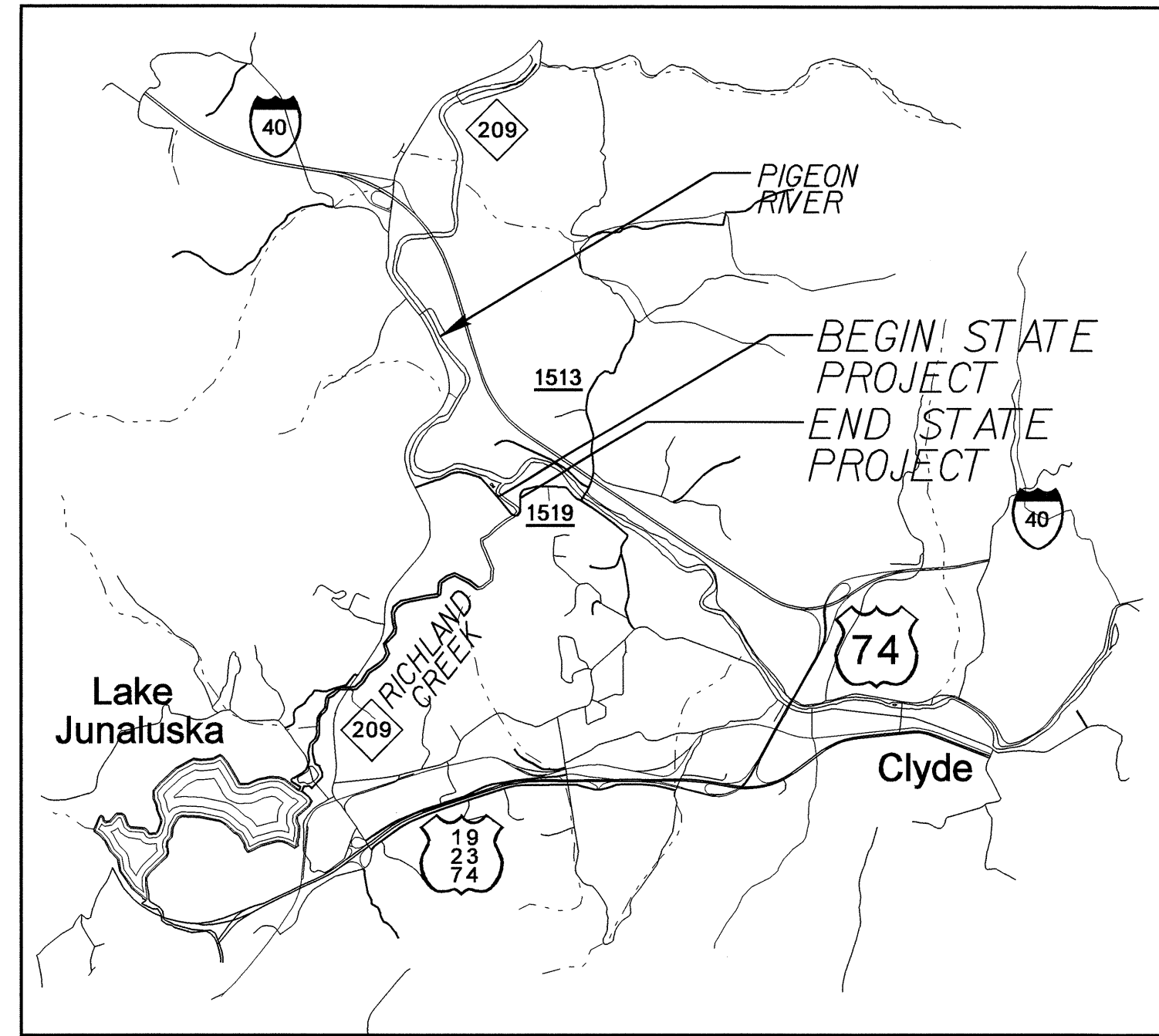
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TIP PROJECT: B-4144

WBS: 33493

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T.I.P. NO.	SHEET NO.
B-4144	UO-1

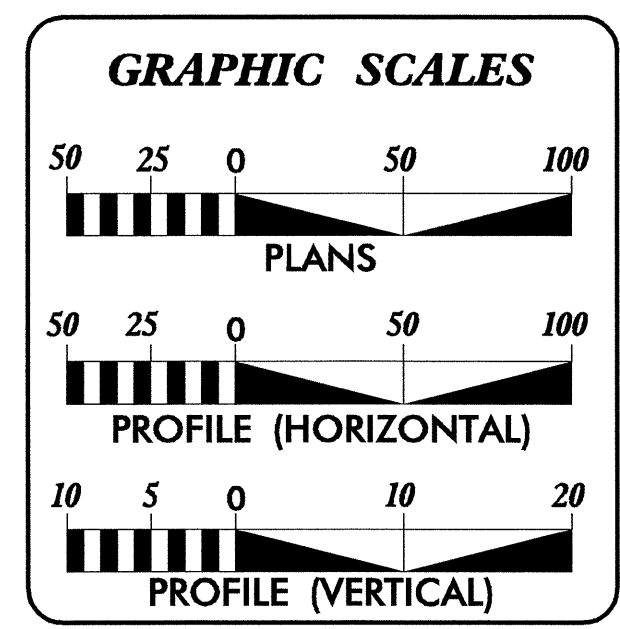
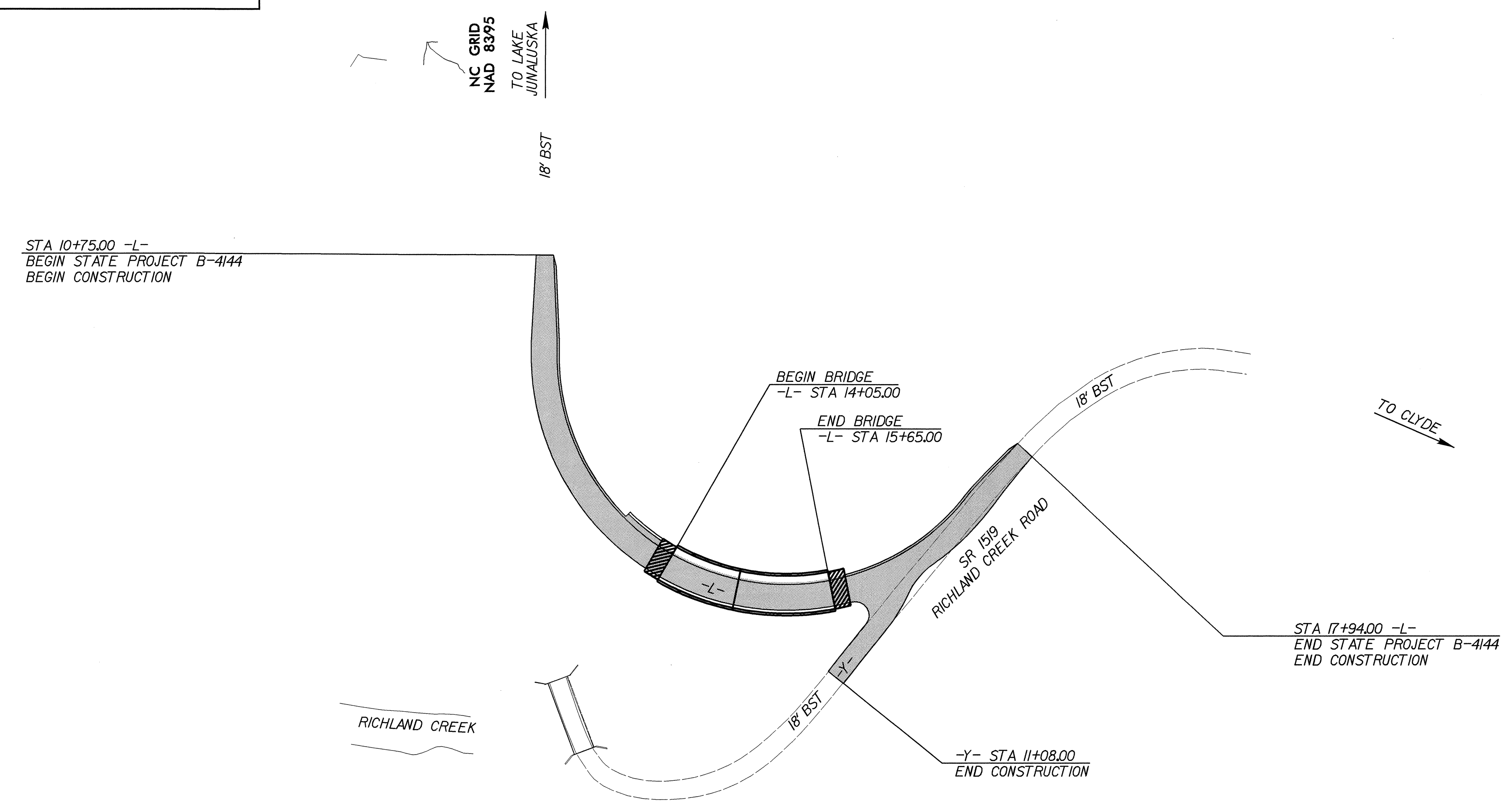


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS
 HAYWOOD COUNTY**

**LOCATION: BRIDGE NO. 211 OVER RICHLAND CREEK
 ON SR 1519**

TYPE OF WORK: UTILITIES RELOCATION



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT
(1) AT&T

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

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

Roger Worthington, P.E. UTILITIES SECTION ENGINEER

Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER

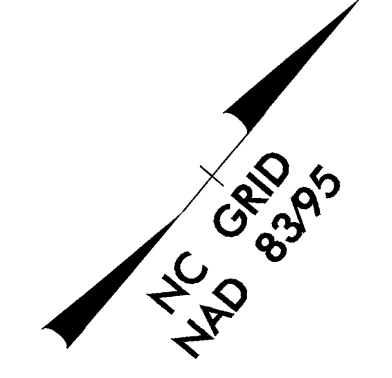
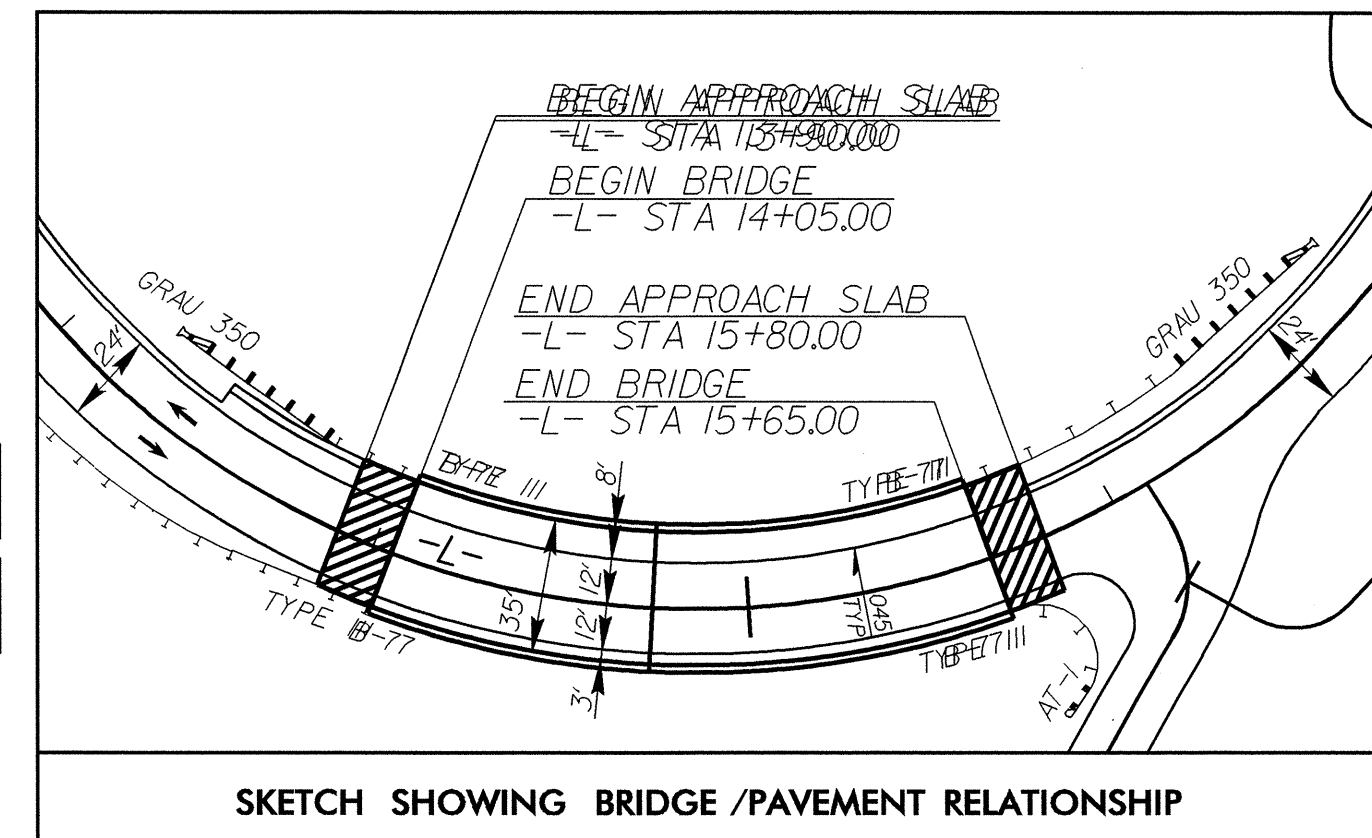
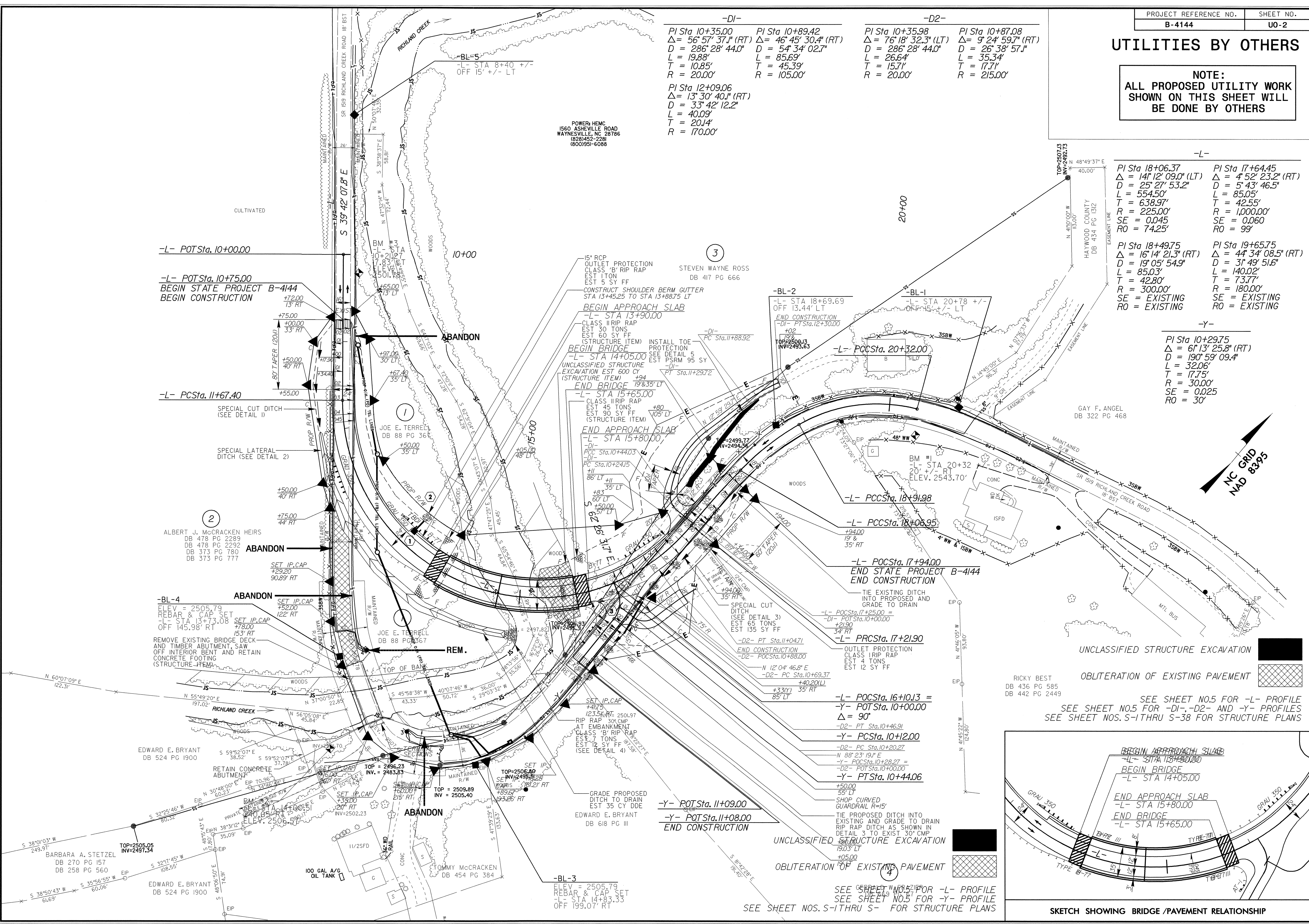
Ali Kouchehi, P.E. UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS

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

-D1-		-D2-	
PI Sta 10+35.00 Δ = 56° 57' 37.1" (RT) D = 286' 28" 44.0" L = 19.88' T = 10.85' R = 20.00'	PI Sta 10+89.42 Δ = 46° 45' 30.4" (RT) D = 54' 34" 02.7" L = 85.69' T = 45.39' R = 105.00'	PI Sta 10+35.98 Δ = 76° 18' 32.3" (LT) D = 286' 28" 44.0" L = 26.64' T = 15.71' R = 20.00'	PI Sta 10+87.08 Δ = 9° 24' 59.7" (RT) D = 26' 38" 57.1" L = 35.34' T = 17.71' R = 215.00'
PI Sta 12+09.06 Δ = 13° 30' 40.1" (RT) D = 33' 42" 12.2" L = 40.09' T = 20.14' R = 170.00'			

-L-	
PI Sta 18+06.37 Δ = 14° 12' 09.0" (LT) D = 25' 27" 53.2" L = 554.50' T = 638.97' R = 225.00' SE = 0.045 RO = 74.25'	PI Sta 17+64.45 Δ = 4° 52' 23.2" (RT) D = 5' 43" 46.5" L = 85.05' T = 42.55' R = 1,000.00' SE = 0.060 RO = 99'
PI Sta 18+49.75 Δ = 16° 14' 21.3" (RT) D = 19° 05' 54.9" L = 85.03' T = 42.80' R = 300.00' SE = EXISTING RO = EXISTING	PI Sta 19+65.75 Δ = 44° 34' 08.5" (RT) D = 31' 49" 51.6" L = 140.02' T = 73.77' R = 180.00' SE = EXISTING RO = EXISTING
-Y- PI Sta 10+29.75 Δ = 6° 13' 25.8" (RT) D = 190° 59' 09.4" L = 32.06' T = 17.75' R = 30.00' SE = 0.025 RO = 30'	



SEE SHEET NO.5 FOR -L- PROFILE
SEE SHEET NO.5 FOR -D1-, -D2- AND -Y- PROFILES
SEE SHEET NOS. S-1 THRU S-38 FOR STRUCTURE PLANS

SEE SHEET NO.5 FOR -L- PROFILE
SEE SHEET NO.5 FOR -Y- PROFILE
SEE SHEET NOS. S-1 THRU S- FOR STRUCTURE PLANS

5/14/96

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