09/08/99

TIP PROJECT: B4551

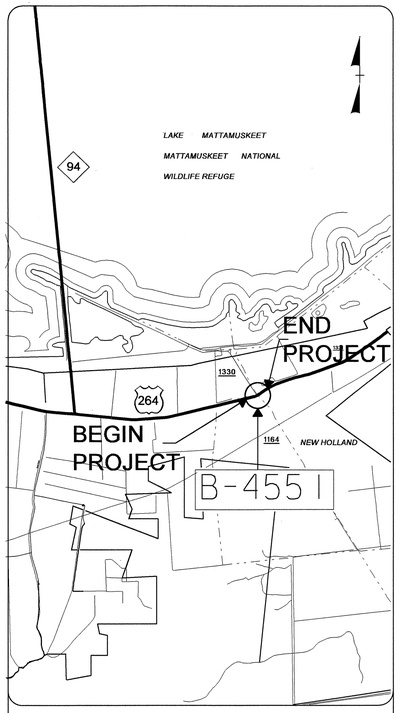
T.I.P. NO.	SHEET NO.
B-4551	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
HYDE COUNTY

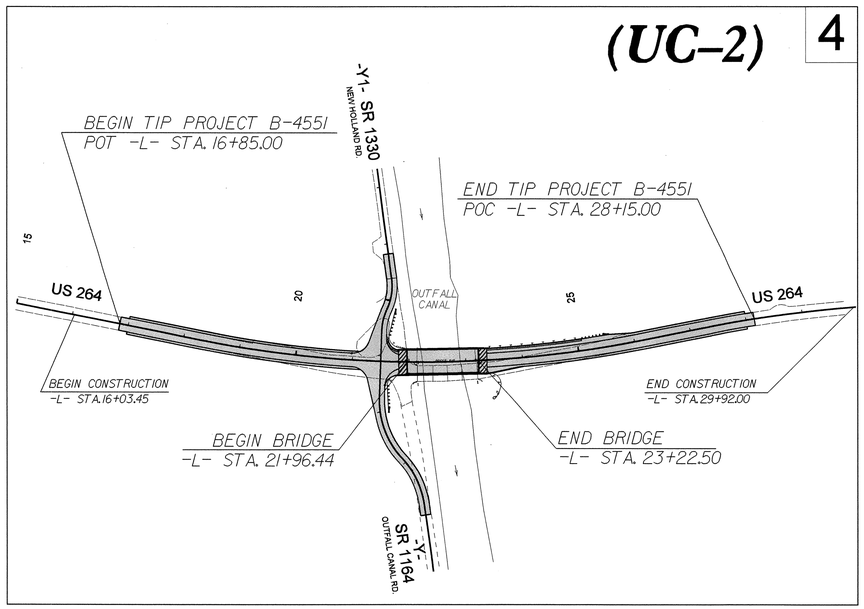
LOCATION: BRIDGE NO. 45 OVER A CANAL ON US 264

TYPE OF WORK: UTILITIES RELOCATION



PROJECT VICINITY MAP

TO SWAN QUARTER



TO ENGELHARD

2006 STANDARD SPECIFICATIONS

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

WATER AND SEWER OWNERS ON PROJECT

(1) HYDE COUNTY WATER DISTRICT (WATER)

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 23041 ENGINEER COREY D. BOUSQUET
6/27/11

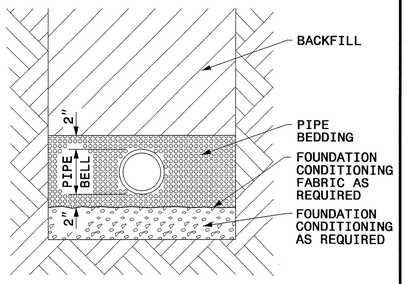
PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

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

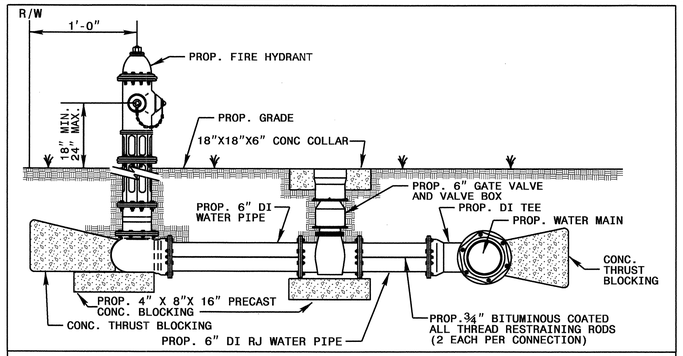
29-JUN-2011 11:49
R:\Utilities\Rdy_Ut\Proj\B4551_Rdy_tsh.dgn
$$$$USERNAME$$$$

5/14/99

TRENCH DETAIL



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.



FIRE HYDRANT INSTALLATION 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

PROJECT REFERENCE NO.	SHEET NO.
B-4551	UC-2
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	

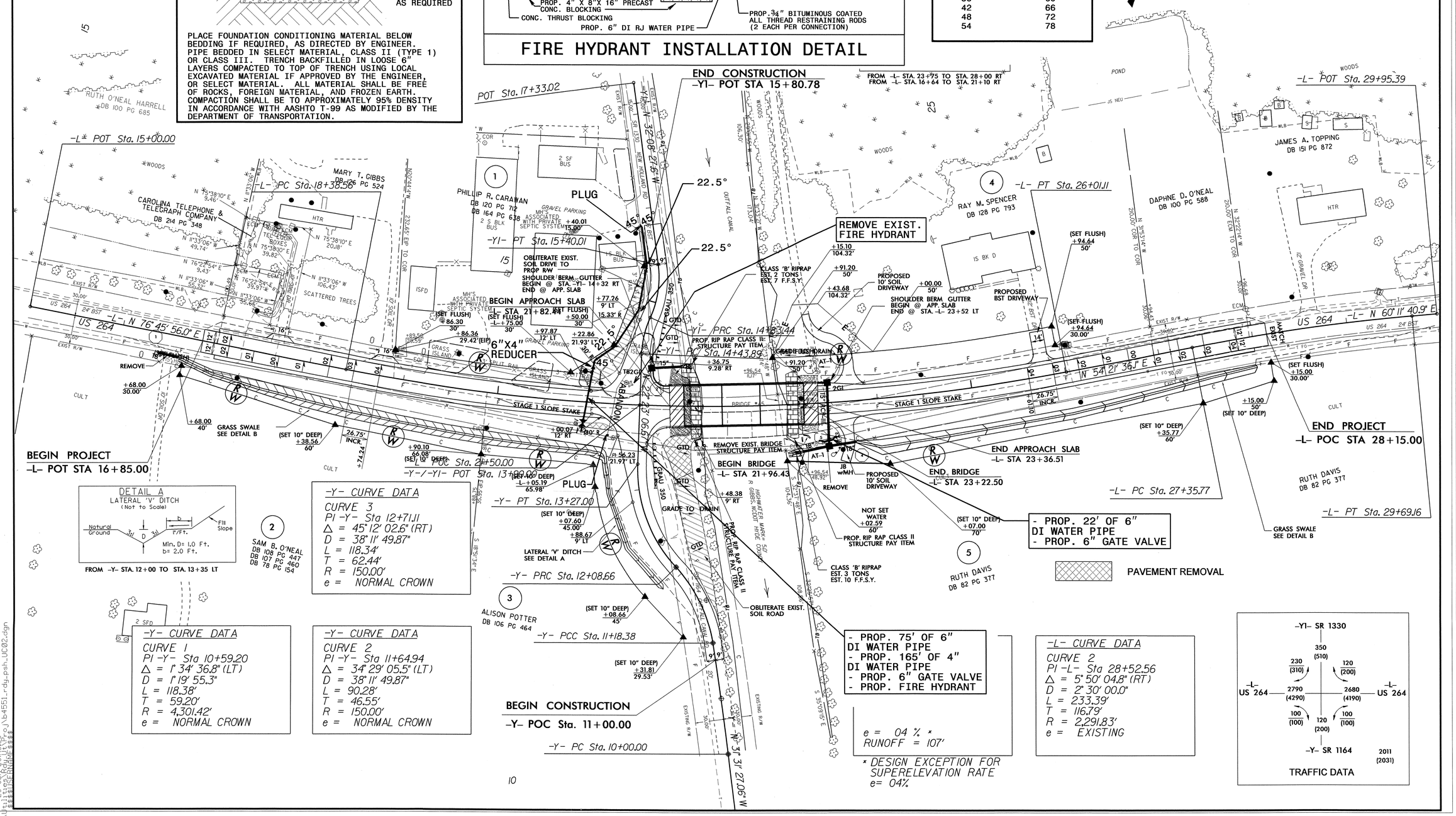
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL SEAL 23041 ENGINEER CORNEY D. BOUSQUET

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

NC GRID NAD 83/95



DETAIL A
LATERAL 'V' DITCH
(Not to Scale)

FROM -Y- STA. 12+00 TO STA. 13+35 LT

-Y- CURVE DATA
CURVE 3
PI -Y- Sta 12+71.11
Δ = 45° 12' 02.6" (RT)
D = 38° 11' 49.87"
L = 118.34'
T = 62.44'
R = 150.00'
e = NORMAL CROWN

-Y- CURVE DATA
CURVE 1
PI -Y- Sta 10+59.20
Δ = 1° 34' 36.8" (LT)
D = 1° 19' 55.3"
L = 118.38'
T = 59.20'
R = 4,301.42'
e = NORMAL CROWN

-Y- CURVE DATA
CURVE 2
PI -Y- Sta 11+64.94
Δ = 34° 29' 05.5" (LT)
D = 38° 11' 49.87"
L = 90.28'
T = 46.55'
R = 150.00'
e = NORMAL CROWN

-L- CURVE DATA
CURVE 2
PI -L- Sta 28+52.56
Δ = 5° 50' 04.8" (RT)
D = 2° 30' 00.0"
L = 233.39'
T = 116.79'
R = 2,291.83'
e = EXISTING

TRAFFIC DATA

09/08/99

TIP PROJECT: B-4551

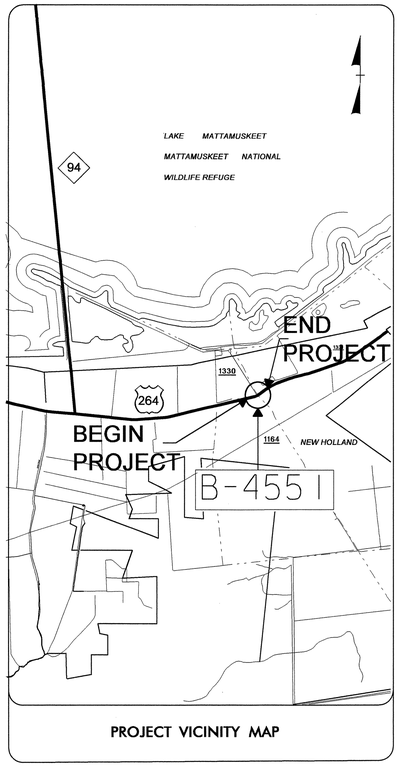
T.I.P. NO.	SHEET NO.
B-4551	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
HYDE COUNTY

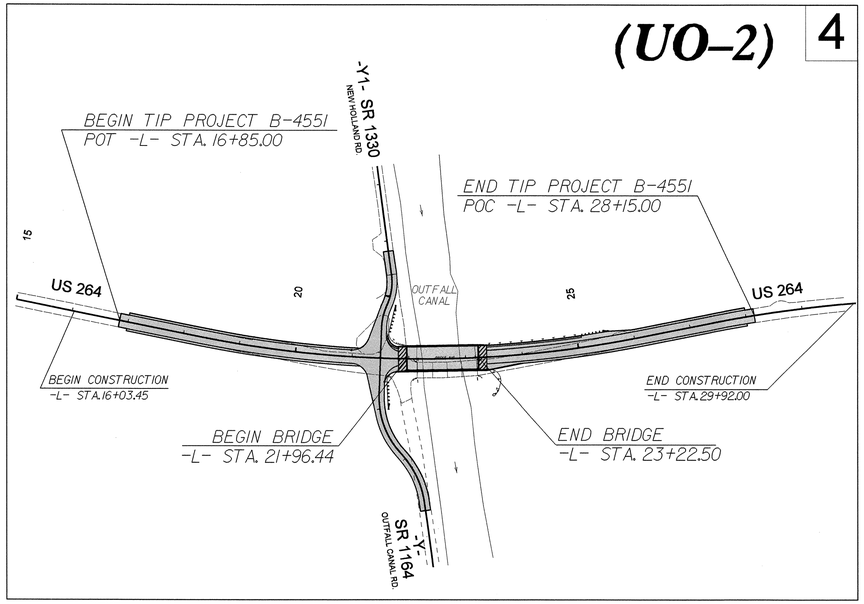
LOCATION: BRIDGE NO. 45 OVER A CANAL ON US 264

TYPE OF WORK: UTILITIES RELOCATION



PROJECT VICINITY MAP

TO SWAN QUARTER



TO ENGELHARD

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

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

UTILITY OWNERS ON PROJECT

(1) TIDELAND EMC - (POWER)
(2) CENTURYLINK - (TELEPHONE)

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

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
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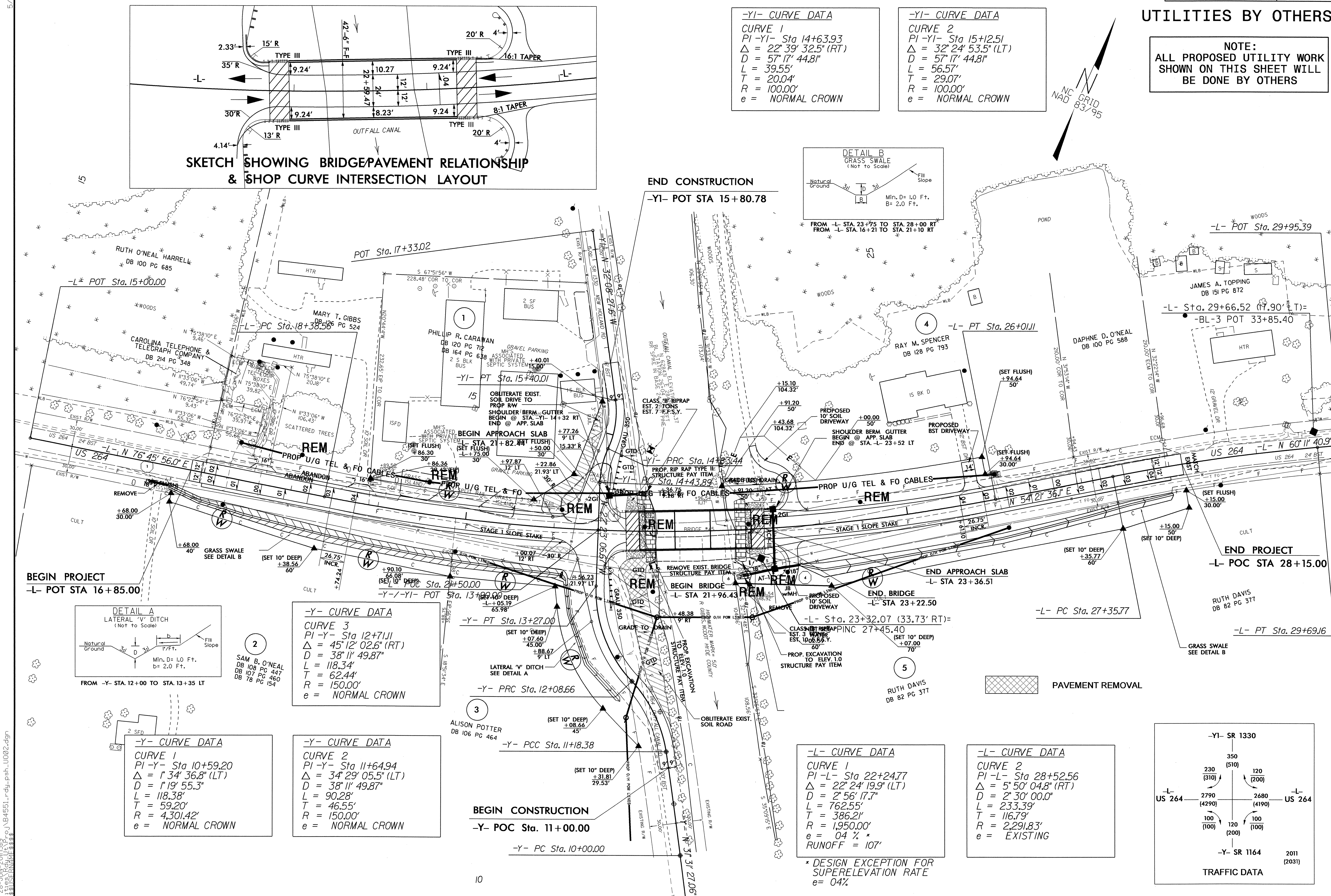
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan UTILITIES PROJECT DESIGNER

PROJECT REFERENCE NO.	SHEET NO.
B-4551	U0-2

UTILITIES BY OTHERS

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



SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP & SHOP CURVE INTERSECTION LAYOUT
END CONSTRUCTION
-Y1- POT STA 15+80.78
BEGIN PROJECT
-L- POT STA 16+85.00
END PROJECT
-L- POC STA 28+15.00
BEGIN CONSTRUCTION
-Y- POC Sta. 11+00.00
BEGIN APPROACH SLAB
-L- STA 21+82.43
BEGIN BRIDGE
-L- STA 21+96.43
END BRIDGE
-L- STA 23+22.50
END APPROACH SLAB
-L- STA 23+36.51
PROP U/G TEL & FO CABLES
REM
US 264
NC GRID NAD 83/95
RUTH O'NEAL HARRELL DB 100 PG 685
MARY T. GIBBS DB 126 PG 524
CAROLINA TELEPHONE & TELEGRAPH COMPANY DB 214 PG 348
PHILLIP R. CARAWAN DB 120 PG 712 DB 164 PG 638
RAY M. SPENCER DB 128 PG 793
DAPHNE D. O'NEAL DB 100 PG 588
JAMES A. TOPPING DB 151 PG 872
SAM B. O'NEAL DB 108 PG 447 DB 107 PG 460 DB 78 PG 154
ALISON POTTER DB 106 PG 464
RUTH DAVIS DB 82 PG 377
DETAIL A
LATERAL 'V' DITCH
(Not to Scale)
FROM -Y- STA. 12+00 TO STA. 13+35 LT
DETAIL B
GRASS SWALE
(Not to Scale)
FROM -L- STA. 23+75 TO STA. 28+00 RT
FROM -L- STA. 16+21 TO STA. 21+10 RT
PAVEMENT REMOVAL
TRAFFIC DATA
-Y1- SR 1330
-Y- SR 1164
-L- US 264
2011 (2031)

-Y1- CURVE DATA

CURVE 1
PI -Y1- Sta 14+63.93
Δ = 22° 39' 32.5" (RT)
D = 57° 17' 44.81"
L = 39.55'
T = 20.04'
R = 100.00'
e = NORMAL CROWN

-Y1- CURVE DATA

CURVE 2
PI -Y1- Sta 15+12.51
Δ = 32° 24' 53.5" (LT)
D = 57° 17' 44.81"
L = 56.57'
T = 29.07'
R = 100.00'
e = NORMAL CROWN

-Y- CURVE DATA

CURVE 3
PI -Y- Sta 12+71.11
Δ = 45° 12' 02.6" (RT)
D = 38° 11' 49.87"
L = 118.34'
T = 62.44'
R = 150.00'
e = NORMAL CROWN

-Y- CURVE DATA

CURVE 1
PI -Y- Sta 10+59.20
Δ = 1° 34' 36.8" (LT)
D = 1° 19' 55.3"
L = 118.38'
T = 59.20'
R = 4,301.42'
e = NORMAL CROWN

-Y- CURVE DATA

CURVE 2
PI -Y- Sta 11+64.94
Δ = 34° 29' 05.5" (LT)
D = 38° 11' 49.87"
L = 90.28'
T = 46.55'
R = 150.00'
e = NORMAL CROWN

-L- CURVE DATA

CURVE 1
PI -L- Sta 22+24.77
Δ = 22° 24' 19.9" (LT)
D = 2° 56' 17.7"
L = 762.55'
T = 386.21'
R = 1,950.00'
e = .04 % *
RUNOFF = 107'

-L- CURVE DATA

CURVE 2
PI -L- Sta 28+52.56
Δ = 5° 50' 04.8" (RT)
D = 2° 30' 00.0"
L = 233.39'
T = 116.79'
R = 2,291.83'
e = EXISTING

* DESIGN EXCEPTION FOR SUPERELEVATION RATE e= .04%

5/14/99
28-JUN-2011 15:19
R:\Utilities\Proj\B4551_rdy_psh_U002.dgn