

T.I.P. NO.	SHEET NO.
I-5010	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

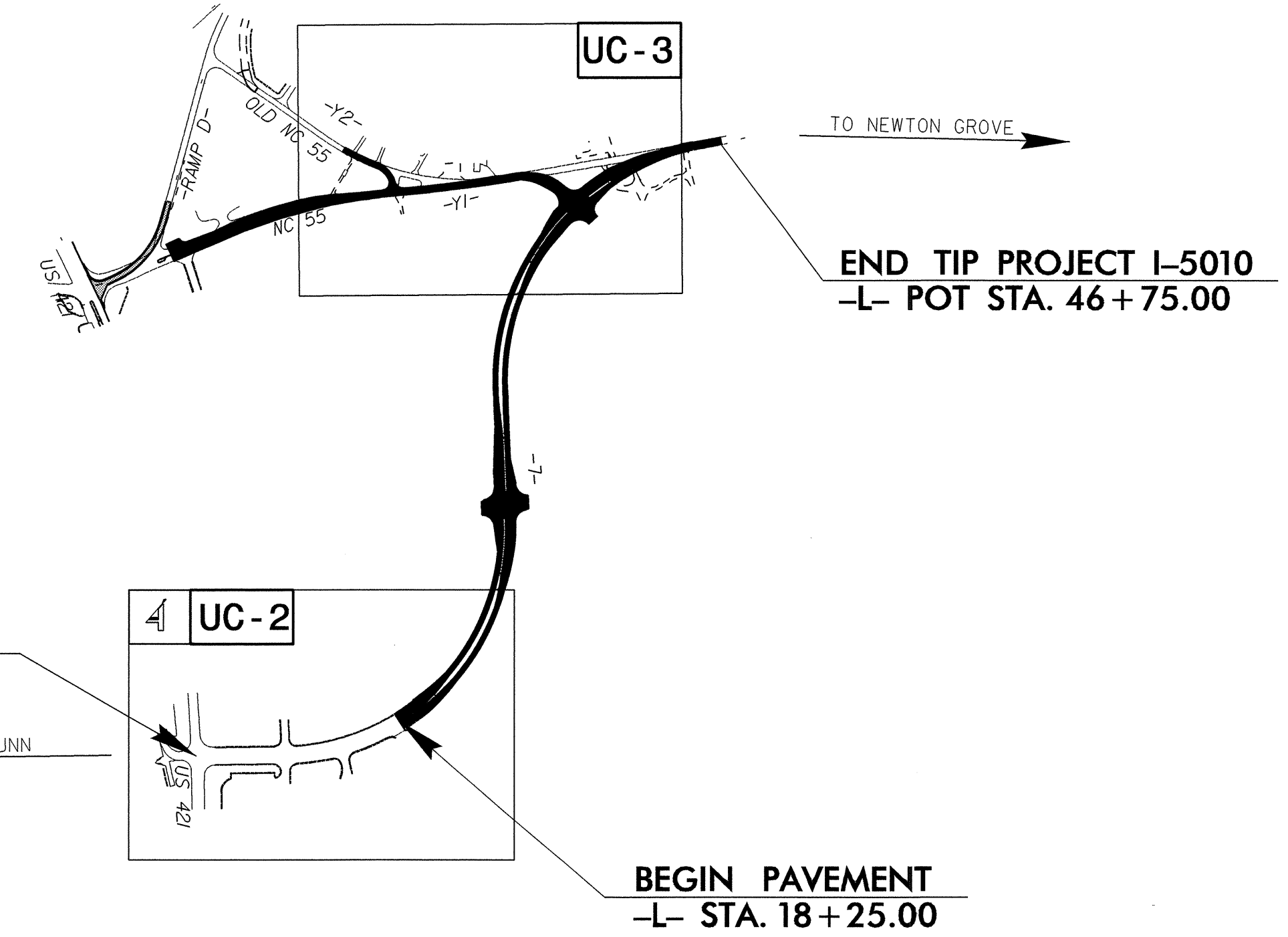
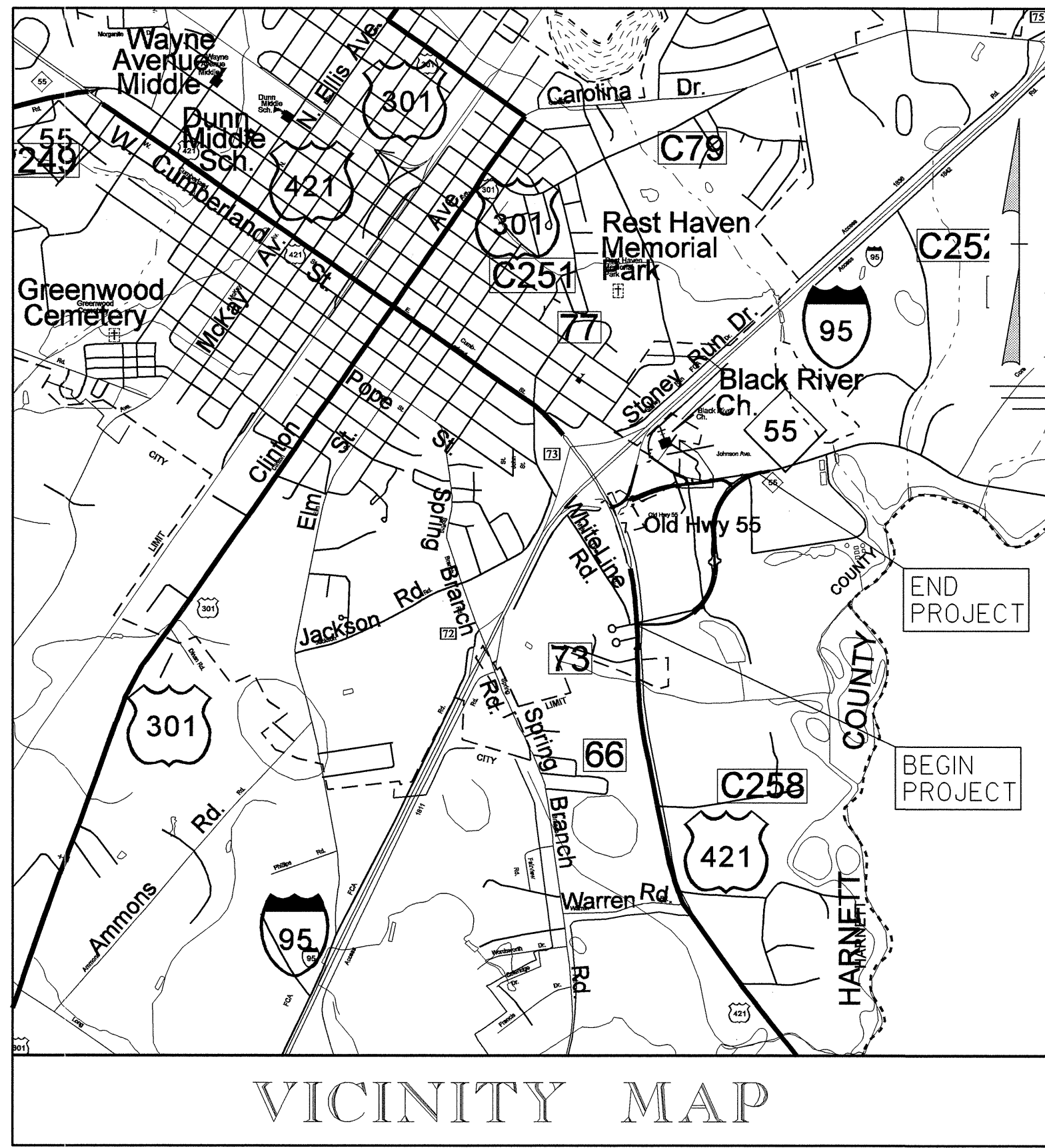
**UTILITY CONSTRUCTION PLANS
HARNETT COUNTY**

LOCATION: NC 55 AT THE I-95 AND US 421 INTERCHANGE
TYPE OF WORK: WATER LINE RELOCATIONS

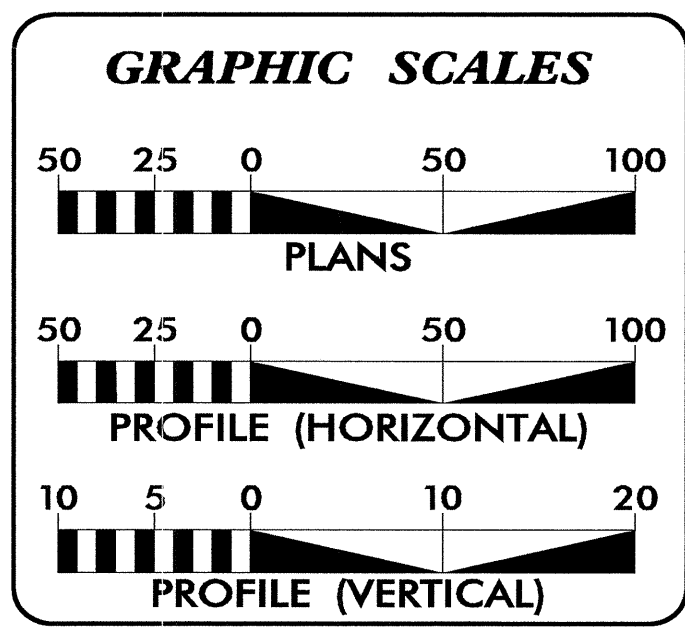
NAD 8301 - NC GRID

TIP PROJECT: I-5010

SEE SHEET I-A FOR INDEX OF SHEETS
SEE SHEET I-B FOR CONVENTIONAL SYMBOLS



THE EXISTING WATER AND SEWER LINES ARE SHOWN ON THE PLANS BY RECORDS. THE EXISTING 14" FORCE MAIN DOES NOT APPEAR TO BE IN CONFLICT WITH THE PROPOSED ROADWAY WORK BASED ON FORCE MAIN BEING AT LEAST 18" VERTICALLY BELOW THE 8" WATER MAIN. THE WATER LINE RELOCATIONS SHOULD BE VERIFIED IN THE FIELD BEFORE THE CONTRACTOR STARTS WORK. THE CITY OF DUNN HAS PLANS TO REPLACE THE EXISTING 14" FORCE MAIN WITH A NEW 20" FORCE MAIN DURING THE CONSTRUCTION OF THIS PROJECT. THE EXISTING 14" FORCE MAIN IS MADE OF ASBESTOS CEMENT PIPE SO THE CONTRACTOR SHOULD BE CAREFULL WHEN WORKING OVER OR AROUND THE EXISTING FORCE MAIN WHILE IT'S STILL IN SERVICE. SEE THE UBO PLANS FOR THE LOCATION OF THE PROPOSED 20" FORCE MAIN AND THE UBO SPECIFICATIONS FOR THE DATES THE WORK WILL BE DONE.

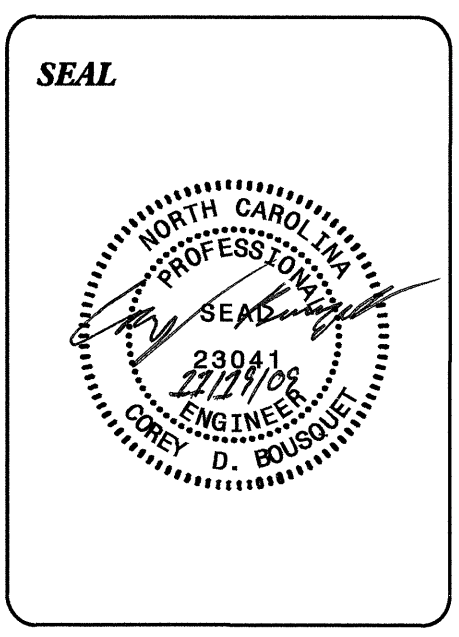


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-3	UTILITY CONSTRUCTION PLAN SHEETS

WATER AND SEWER OWNERS ON PROJECT

(1) WATER - HARNETT COUNTY
(2) SANITARY SEWER - CITY OF DUNN



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
Corey Bousquet, P.E. UTILITIES PROJECT DESIGNER

SEE SHEET I-A FOR INDEX OF SHEETS
SEE SHEET I-B FOR CONVENTIONAL SYMBOLS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

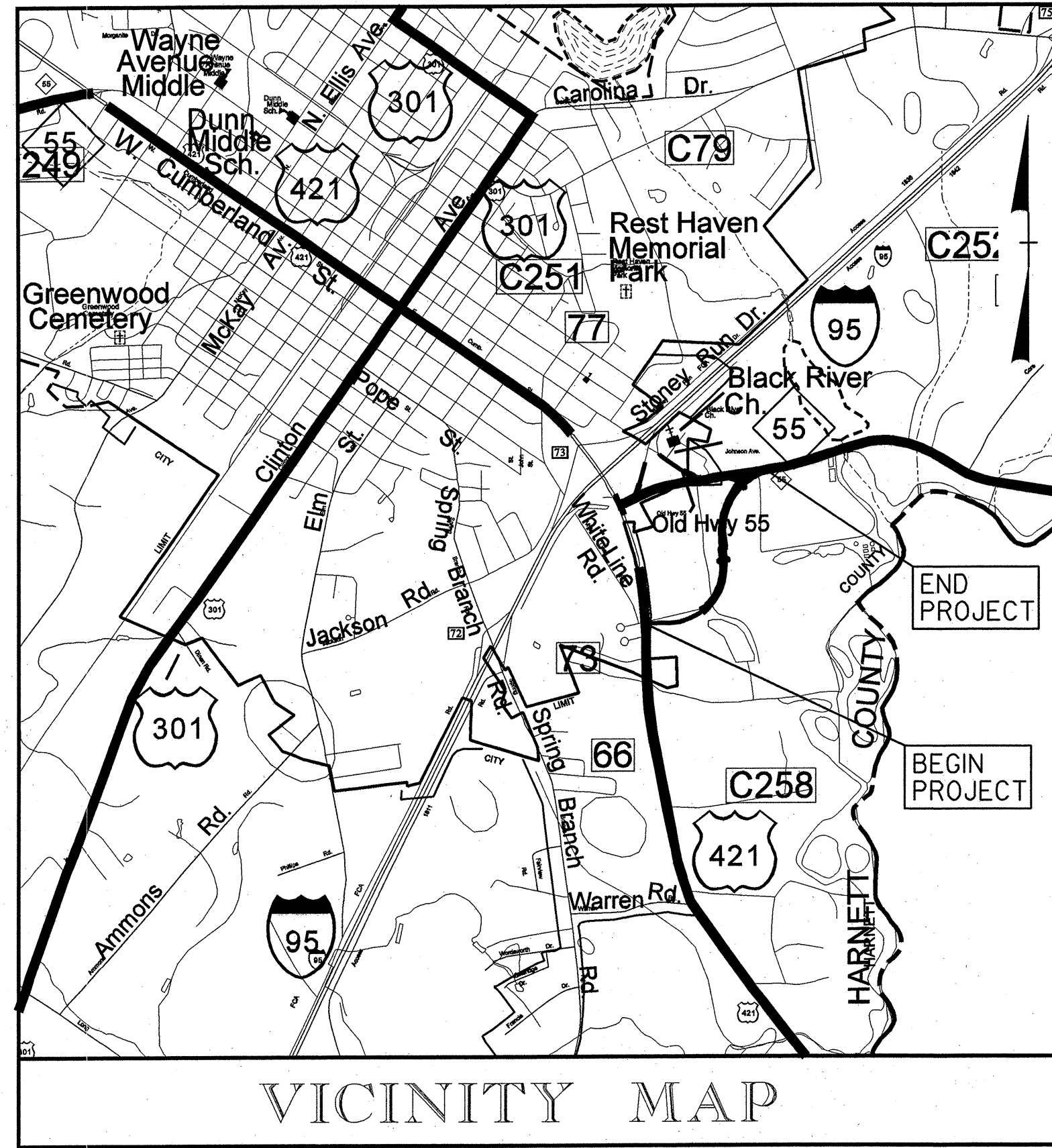
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5010	UO-1	6



KCI ASSOCIATES OF N.C.
SUITE 220, LANDMARK CENTER II,
4501 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
ENGINEERS • SURVEYORS • PLANNERS

REVISED NOV.19,2009 - ADD CITY OF DUNN
FORCEMAIN SEWER

TIP PROJECT: I-5010



VICINITY MAP

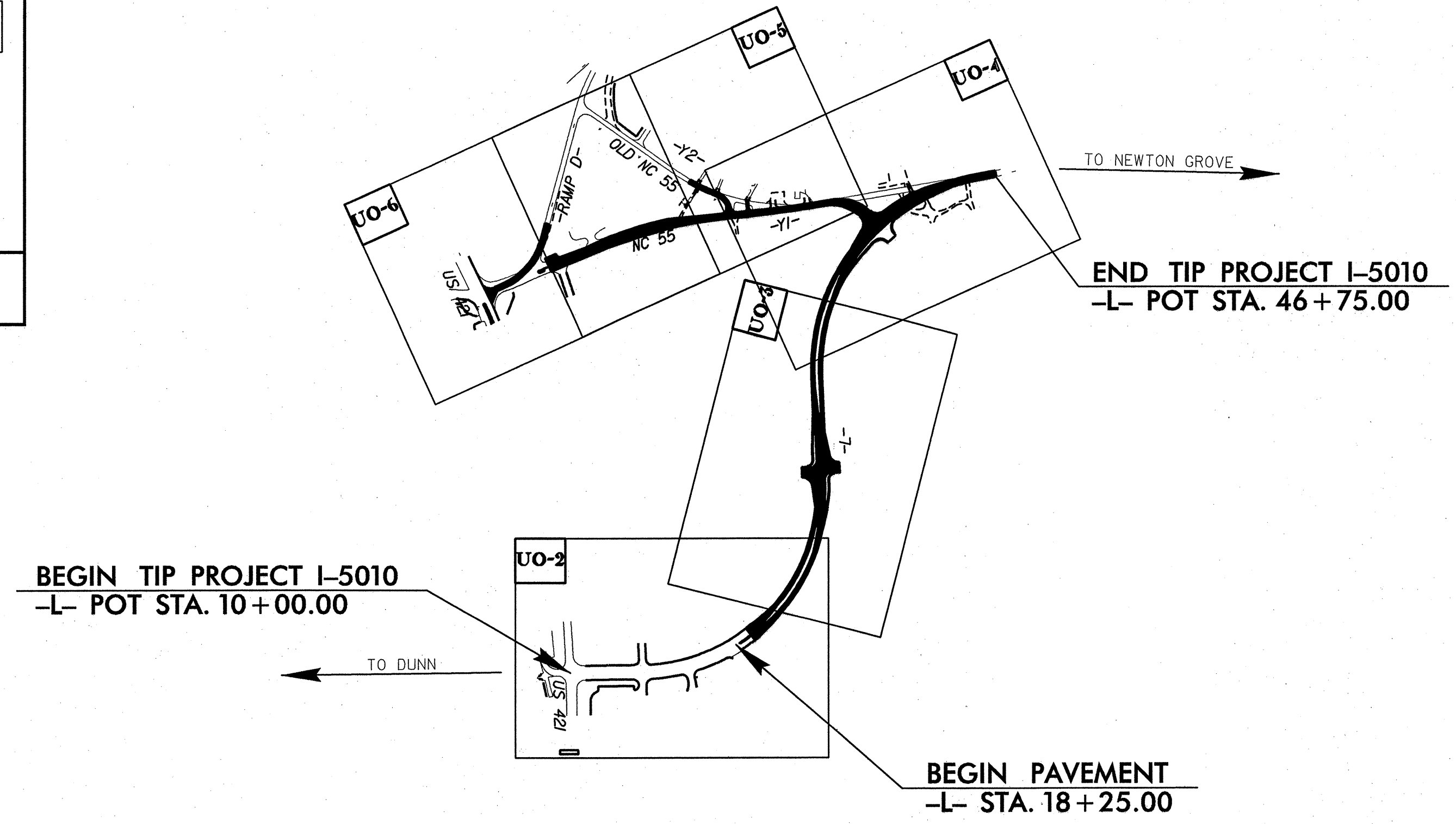
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF DUNN.

UTILITY BY OTHERS PLANS HARNETT COUNTY

LOCATION: NC 55 AT THE I-95 AND US 421 INTERCHANGE

TYPE OF WORK: WIDENING, GRADING, PAVING, DRAINAGE,
SIGNALS AND SIGNING

NAD 83/01 - NC GRID

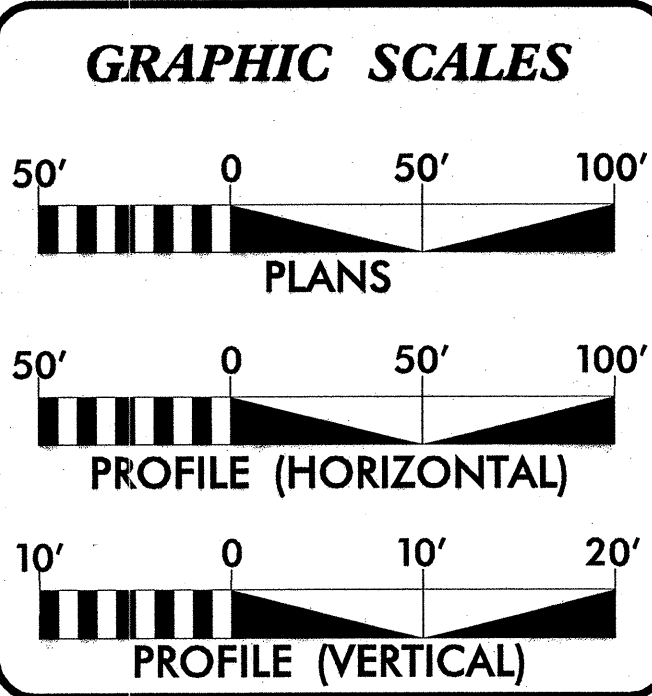


CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS IS A FULL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGE.

FORCEMAIN SANITARY SEWER SCHEDULE:

DECEMBER -	ADVERTISEMENT
JANUARY -	BID OPENING
MARCH -	START CONSTRUCTION
SEPT. 30, 2010 -	FORCEMAIN SEWER PROJECT COMPLETE

CONTRACT:




INDEX OF SHEETS

SHEET No.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET
UO-3	UTILITY BY OTHERS PLAN SHEET
UO-4	UTILITY BY OTHERS PLAN SHEET
UO-5	UTILITY BY OTHERS PLAN SHEET
UO-6	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT

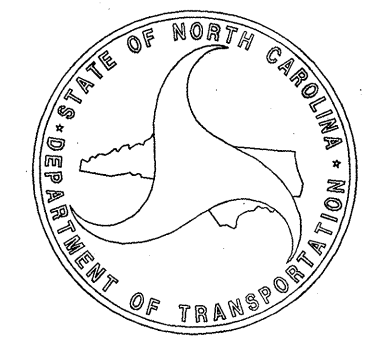
(1) PROGRESS ENERGY	POWER
(2) EMBARQ	TELEPHONE
(3) CHARTER	CABLE T.V.
(4) CITY OF DUNN	WATER & SEWER
(5) HARNETT COUNTY PUBLIC UTILITIES	WATER



ARCADIS
C & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27601-5073
Tel: 919/854-1282 Fax: 919/854-5448

2006 STANDARD SPECIFICATIONS	ARCADIS CONTACT:
R/W DATE:	STEVE SMALLWOOD, P.E. PROJECT ENGINEER
LETTING DATE:	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

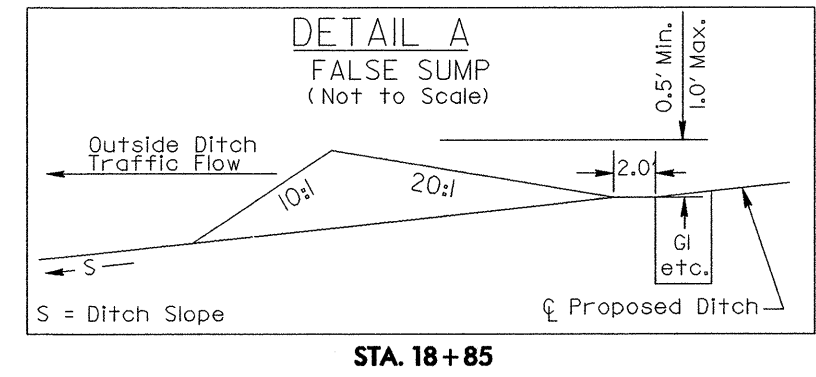
ARCADIS G&M
Date: \$DATE\$
Filename: \$FILE\$
Time: \$TIME\$



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

NO CONFLICTS ON THIS SHEET

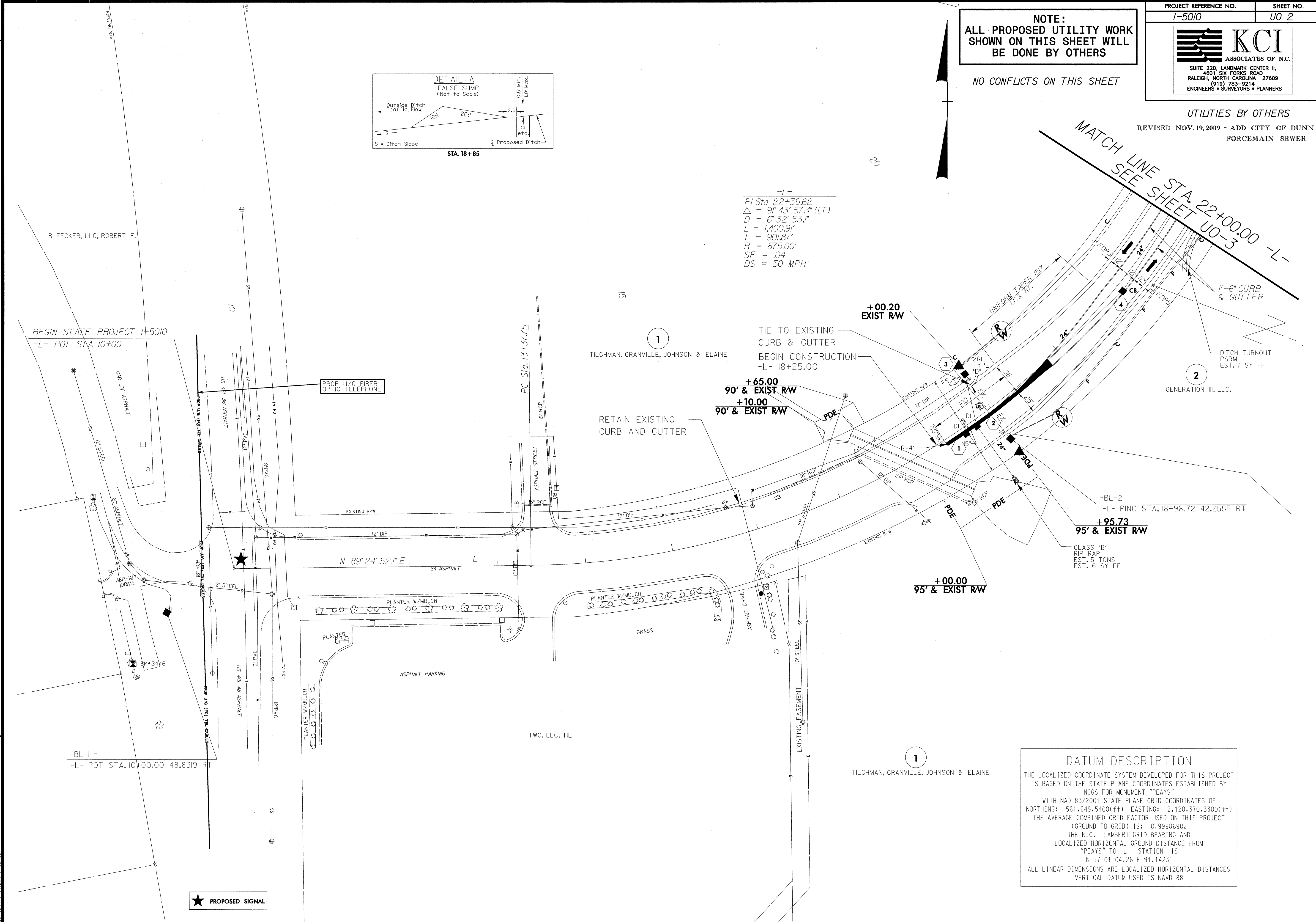
UTILITIES BY OTHERS
REVISED NOV.19,2009 - ADD CITY OF DUNN FORCEMAIN SEWER



-L-
PI Sta 22+39.62
 $\Delta = 91^{\circ} 43' 57.4''$ (LT)
 $D = 6^{\circ} 32' 53.1''$
 $L = 1,400.91'$
 $T = 901.87'$
 $R = 875.00'$
 $SE = .04$
 $DS = 50$ MPH

MATCH LINE STA. 22+00.00 -L-
SEE SHEET U0-3

REVISIONS



BEGIN STATE PROJECT 1-5010
-L- POT STA 10+00

-BL-1 =
-L- POT STA. 10+00.00 48.8319 RT

PROP U/G FIBER OPTIC TELEPHONE

RETAIN EXISTING CURB AND GUTTER

TIE TO EXISTING CURB & GUTTER
BEGIN CONSTRUCTION
-L- 18+25.00

+00.20
EXIST R/W

+65.00
90' & EXIST R/W
+10.00
90' & EXIST R/W

-BL-2 =
-L- PINC STA. 18+96.72 42.2555 RT

+95.73
95' & EXIST R/W

CLASS 'B'
RIP RAP
EST. 5 TONS
EST. 16 SY FF

+00.00
95' & EXIST R/W

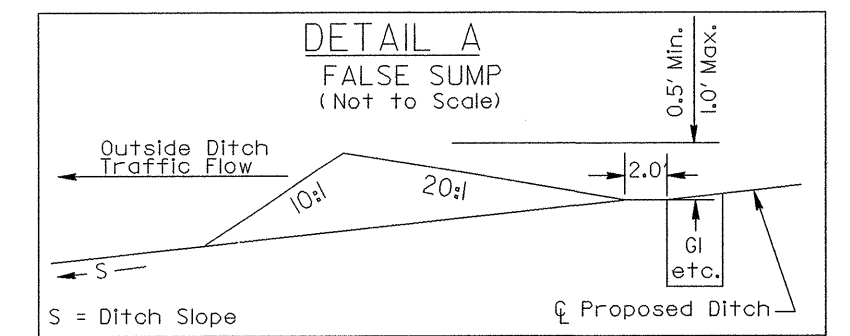
★ PROPOSED SIGNAL

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "PEAYS"
WITH NAD 83/2001 STATE PLANE GRID COORDINATES OF
NORTHING: 561,649,5400(ft) EASTING: 2,120,370,3300(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99986902
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "PEAYS" TO -L- STATION IS
N 57 01 04.26 E 91.1423'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

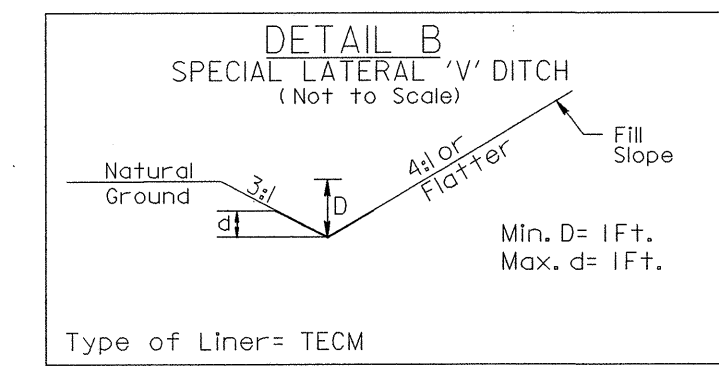
8/17/99
SYSTEMS
DUNN
US
ENGINEERS

UTILITIES BY OTHERS
 REVISED NOV. 19, 2009 - ADD CITY OF DUNN
 FORCEMAIN SEWER

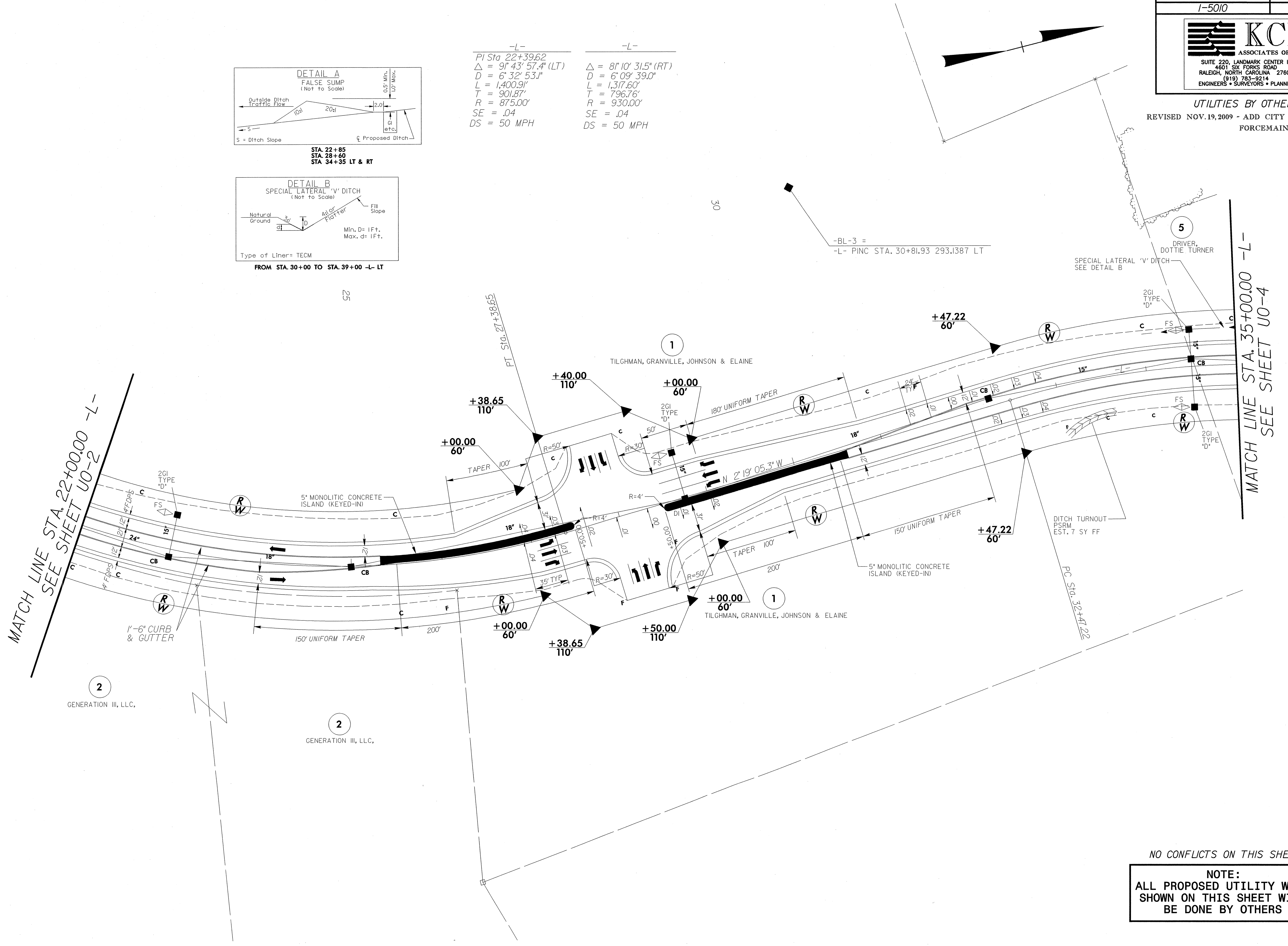
-L-	-L-
PI Sta 22+39.62	$\Delta = 81^{\circ} 10' 31.5''$ (RT)
$\Delta = 91^{\circ} 43' 57.4''$ (LT)	$D = 6^{\circ} 09' 39.0''$
$D = 6^{\circ} 32' 53.1''$	$L = 1,317.60'$
$L = 1,400.91'$	$T = 796.76'$
$T = 901.87'$	$R = 930.00'$
$R = 875.00'$	$SE = .04$
$SE = .04$	$DS = 50$ MPH
$DS = 50$ MPH	



STA. 22+85
 STA. 28+60
 STA. 34+35 LT & RT



FROM STA. 30+00 TO STA. 39+00 -L- LT



REVISIONS

NO CONFLICTS ON THIS SHEET

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

8/17/99

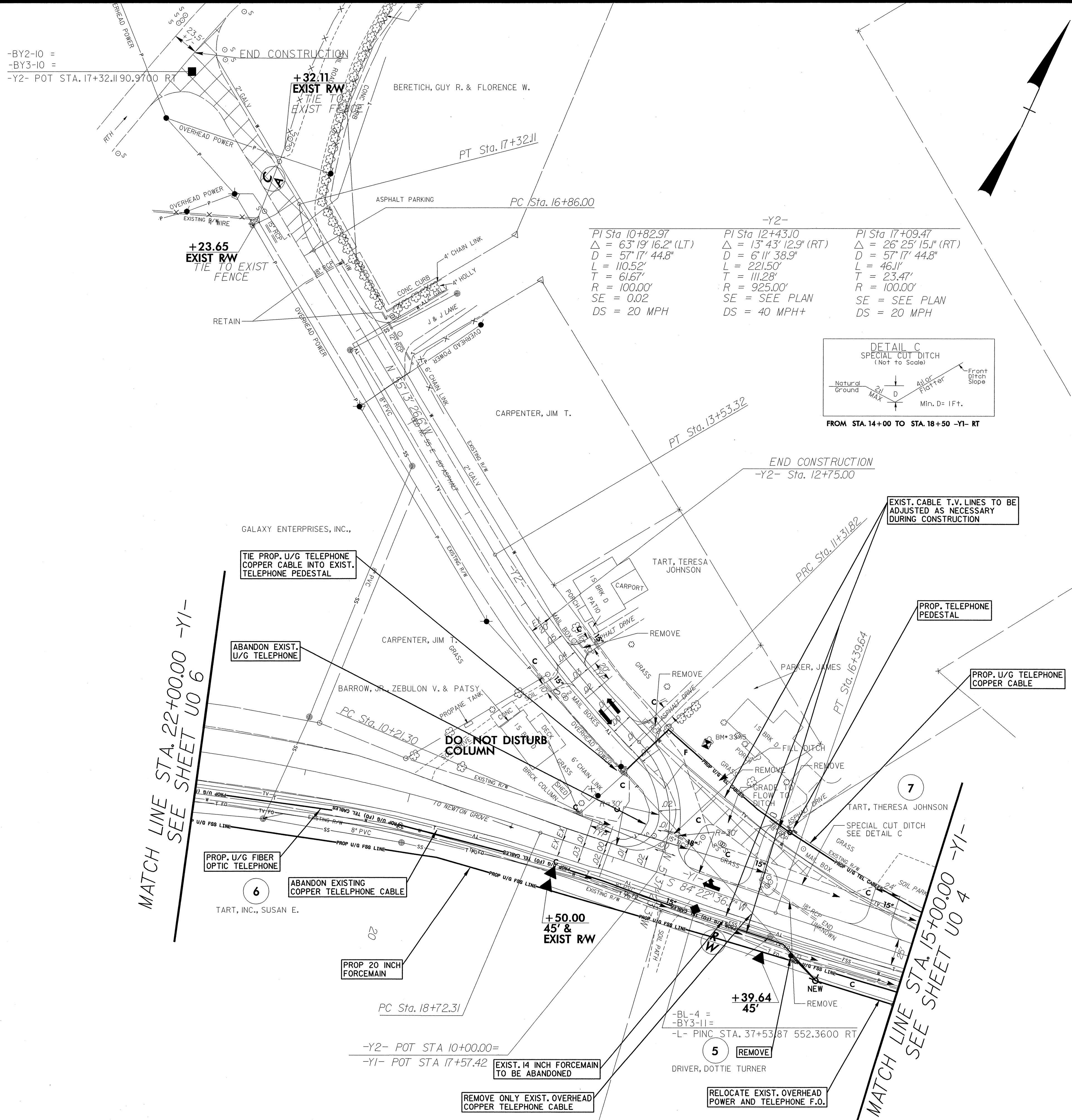
SYSTEMS
 DUNN
 11/11/09



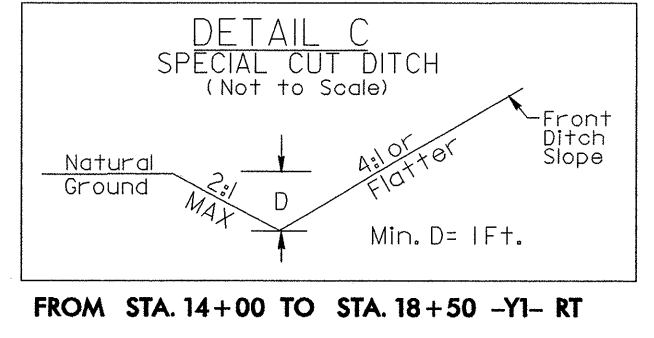
UTILITIES BY OTHERS
 REVISED NOV. 19, 2009 - ADD CITY OF DUNN
 FORCEMAIN SEWER

- NOTES:
1. CHARTER T.V. - WILL ADJUST LINES AS NECESSARY DURING CONSTRUCTION.
 2. CITY OF DUNN - NO WATER OR SEWER CONFLICTS.
 3. PIEDMOUNT NATURAL GAS - NO FACILITIES ON THIS SHEET.
 4. HARNETT COUNTY PUBLIC UTILITIES - NO CONFLICTS.

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



-Y2-		
PI Sta 10+82.97	PI Sta 12+43.10	PI Sta 17+09.47
$\Delta = 63^{\circ} 19' 16.2"$ (LT)	$\Delta = 13^{\circ} 43' 12.9"$ (RT)	$\Delta = 26^{\circ} 25' 15.1"$ (RT)
D = 57' 17" 44.8"	D = 6' 11" 38.9"	D = 57' 17" 44.8"
L = 110.52'	L = 221.50'	L = 46.11'
T = 61.67'	T = 111.28'	T = 23.47'
R = 100.00'	R = 925.00'	R = 100.00'
SE = 0.02	SE = SEE PLAN	SE = SEE PLAN
DS = 20 MPH	DS = 40 MPH+	DS = 20 MPH



REVISIONS

MATCH LINE STA. 22+00.00 -Y1-
 SEE SHEET UO 6

MATCH LINE STA. 15+00.00 -Y1-
 SEE SHEET UO 4

8/17/09
 SYSTEMS DESIGN
 USER NAME

