

CONTRACT: C201803 TIP PROJECT R-5019

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

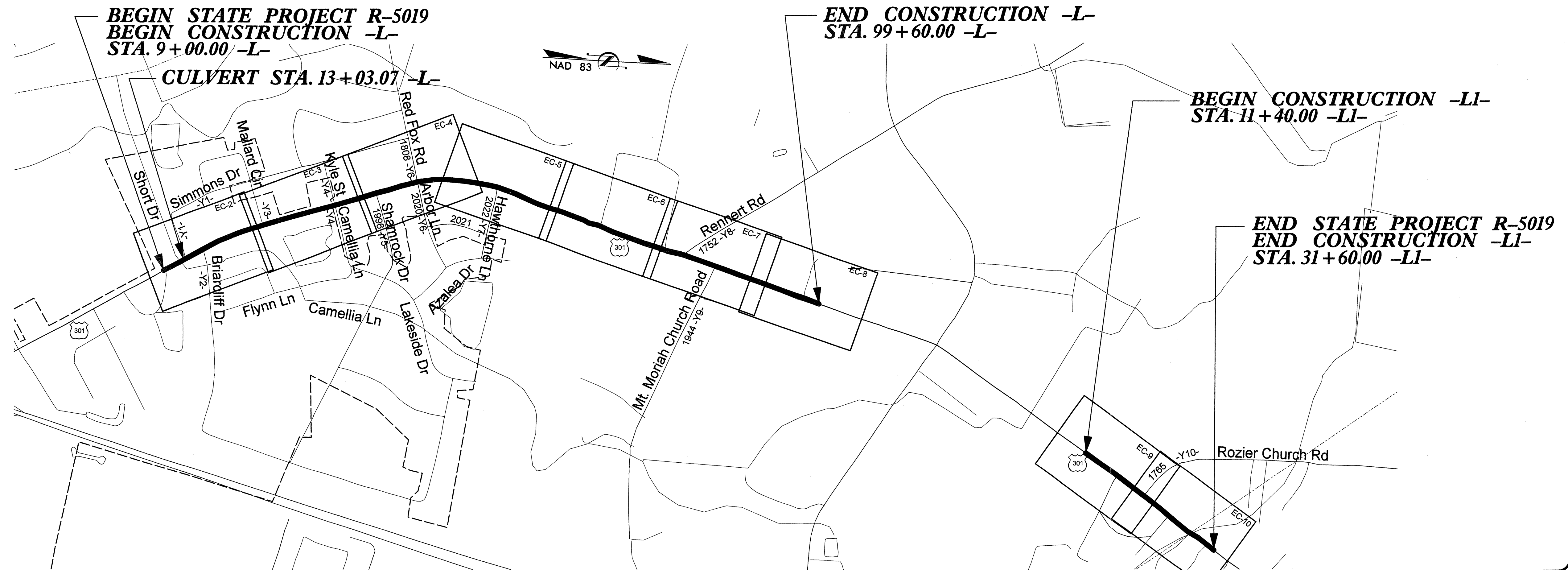
ROBESON COUNTY

**LOCATION: US 301 FROM EXISTING THREE-LANE SECTION 0.06 MI SOUTHEAST OF
 SIMMONS DRIVE TO 0.24 MI NORTHEAST OF SR 1765 (ROZIER CHURCH ROAD)**
**TYPE OF WORK: GRADING, WIDENING, RESURFACING, DRAINAGE
 GUARDRAIL, PAVEMENT MARKINGS**

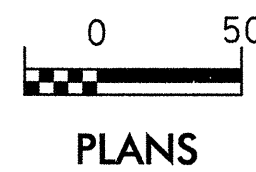
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5019	EC-1	11
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
37984		P.E., R /W, UTIL.	
41522.3.1		CONSTRUCTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1633.01	Temporary Rock Silt Check Type-A	▣
1633.02	Temporary Rock Silt Check Type-B	▣
	Rock Inlet Sediment Trap	▣ OR ▣
1632.03	Type C	▣ OR ▣



GRAPHIC SCALE



HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
 ROADWAY DESIGN ENGINEER
 SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER, SEAL 027416, ENGINEER, LISA M. PODSISNA, 12/22/07
 SIGNATURE: Lisa M. Podisna P.E.

Prepared By:
HDR Engineering, Inc.
 of the Carolinas
 128 S. Tryon Street, Suite 1400 Charlotte, N.C. 28202

2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

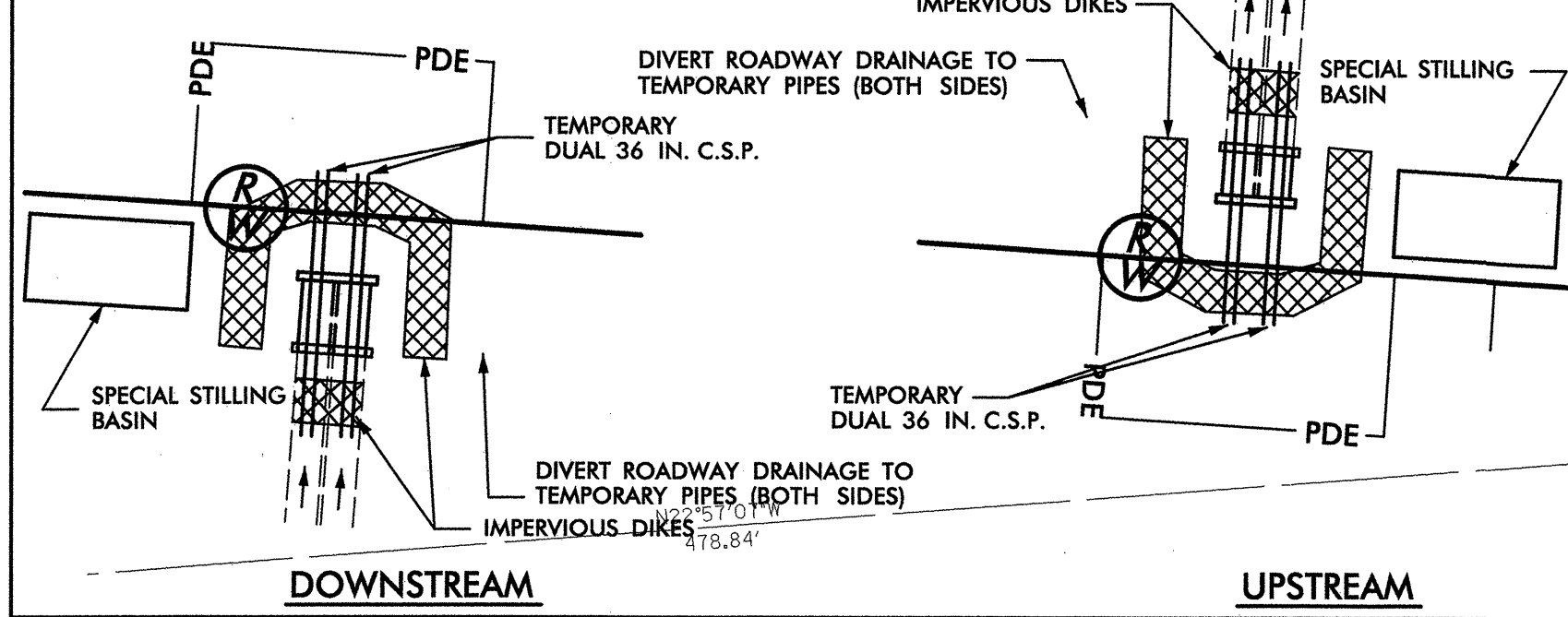
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

- 1605.01 Temporary Silt Fence
- 1632.03 Rock Inlet Sediment Trap Type C
- 1633.01 Temporary Rock Silt Check Type A
- 1633.02 Temporary Rock Silt Check Type B

8/17/99

3/27/2004
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CULVERT EXTENSION DETAIL



CONSTRUCTION SEQUENCE:

- UPSTREAM:**
1. INSTALL IMPERVIOUS DIKES AND TWO TEMPORARY 36" C.S. PIPES.
 2. DEWATER SITE UTILIZING SPECIAL STILLING BASIN AND AS DIRECTED BY THE ENGINEER.
 3. EXTEND R.C.B.C.
 4. REMOVE PIPES, DAM, AND FILL STILLING BASIN.

REPEAT SEQUENCE FOR DOWNSTREAM CULVERT EXTENSION.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-5019		SHEET NO. EC-2	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

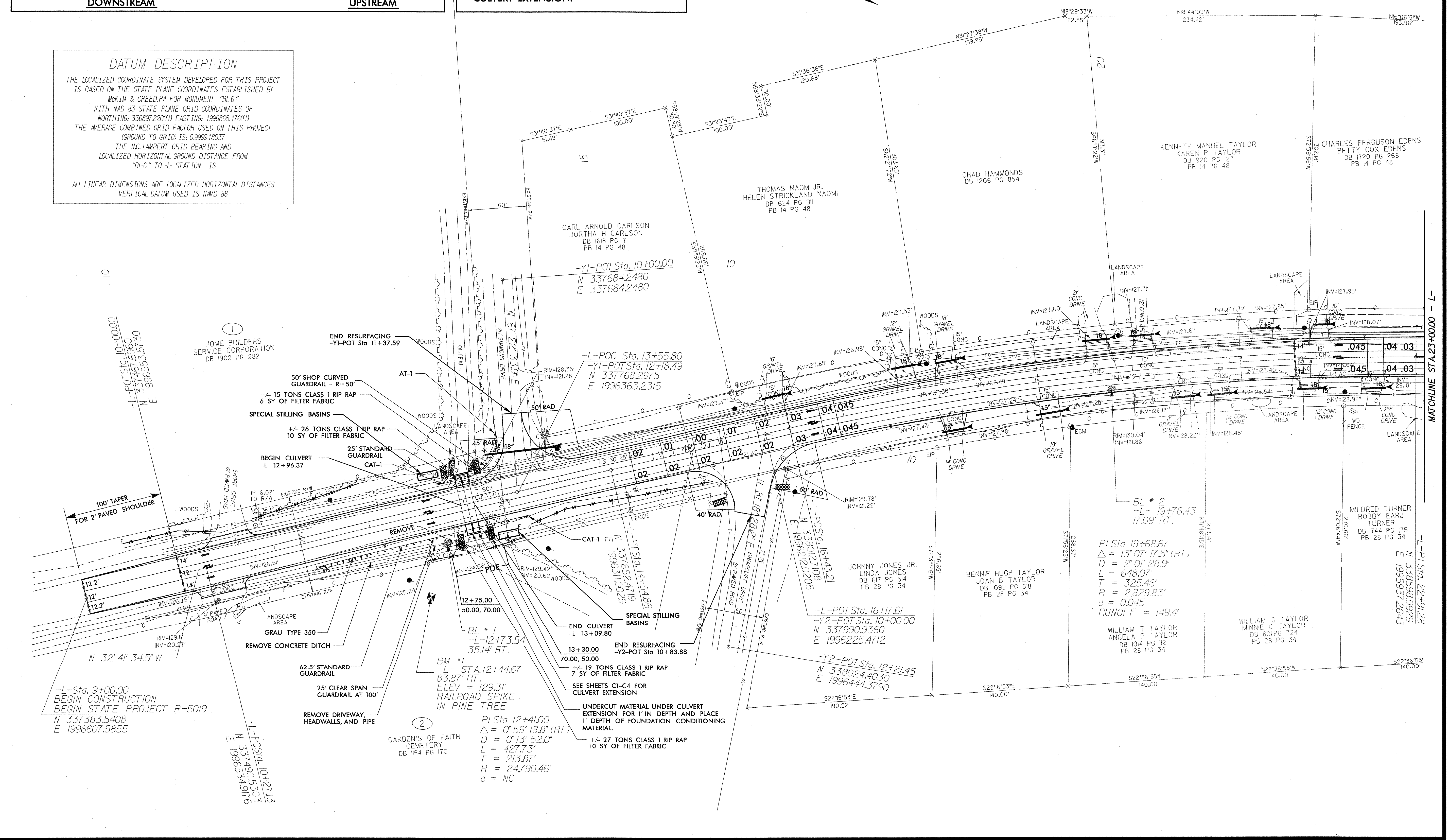
Professional Engineer Seal: NORTH CAROLINA SEAL 027416, LISA M. PODESTA, 5/1/98

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY McKIM & CREED, PA FOR MONUMENT "BL-6" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 336897.220(11) EASTING: 1996865.176(11) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999918037 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-6" TO L- STATION IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

REVISIONS



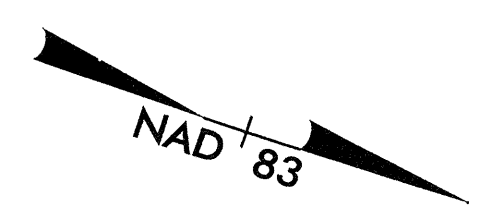
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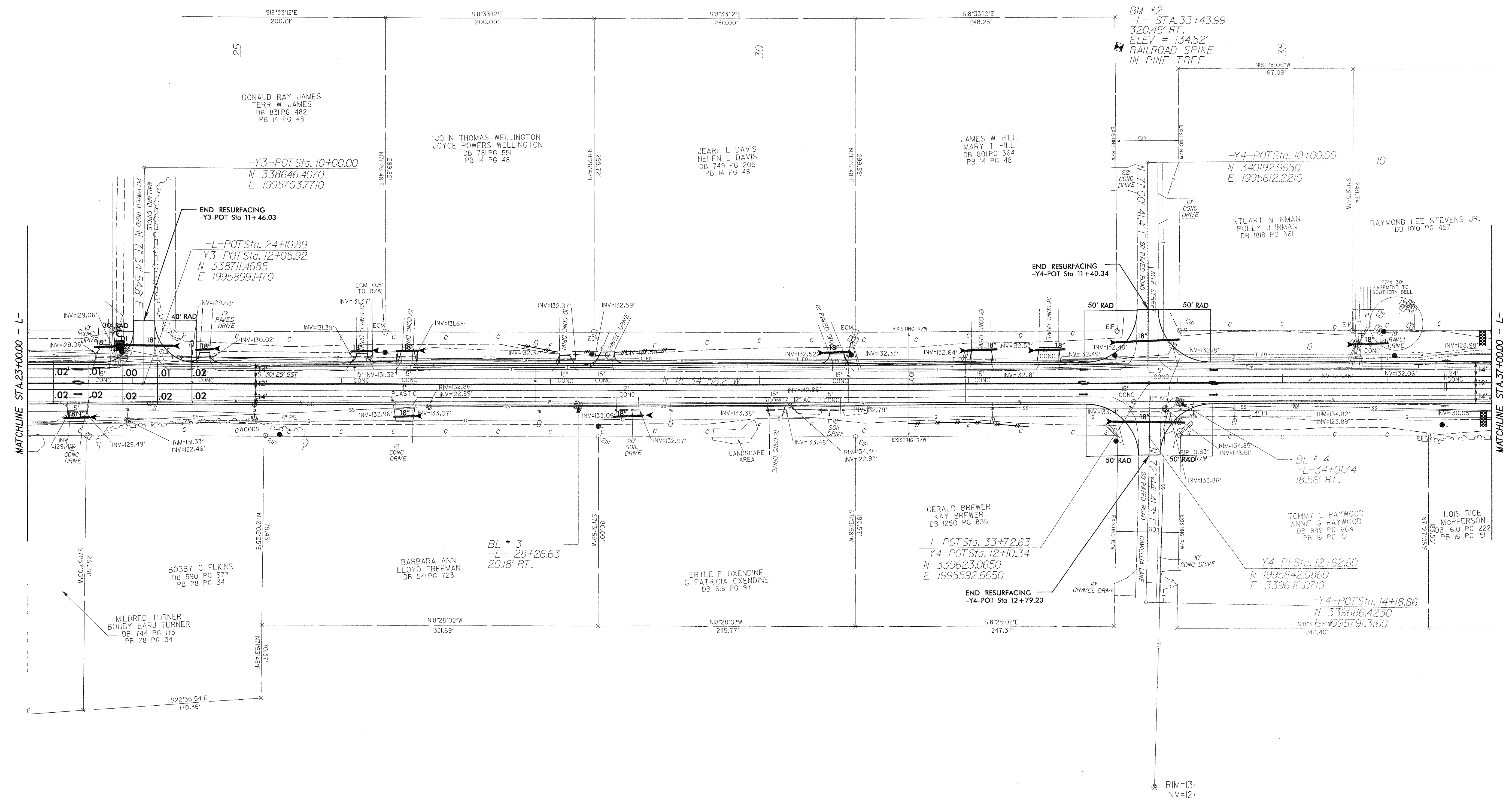
REVISIONS



NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-5019	SHEET NO. EC-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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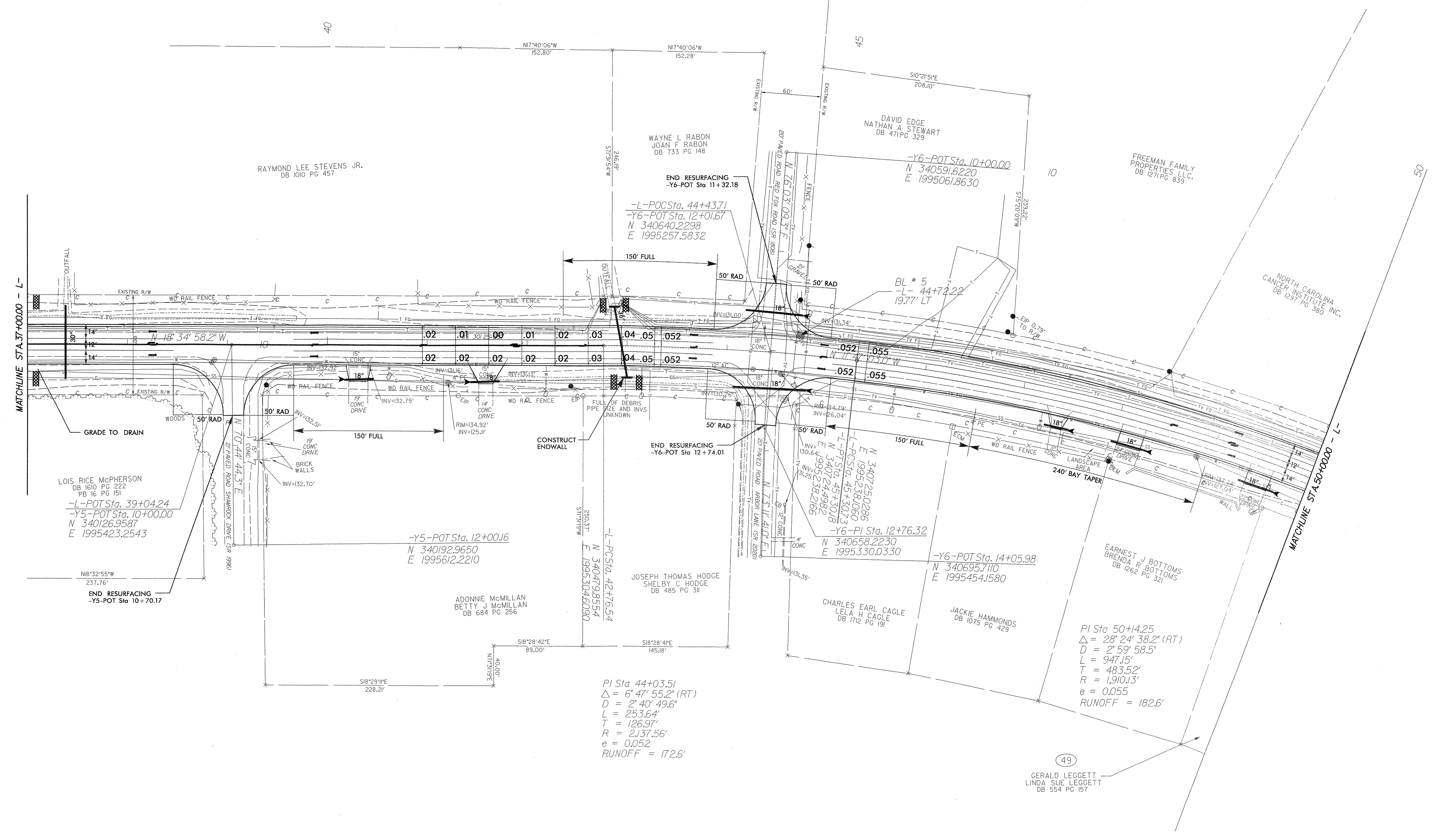
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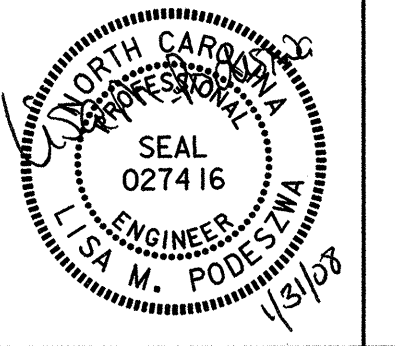
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RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

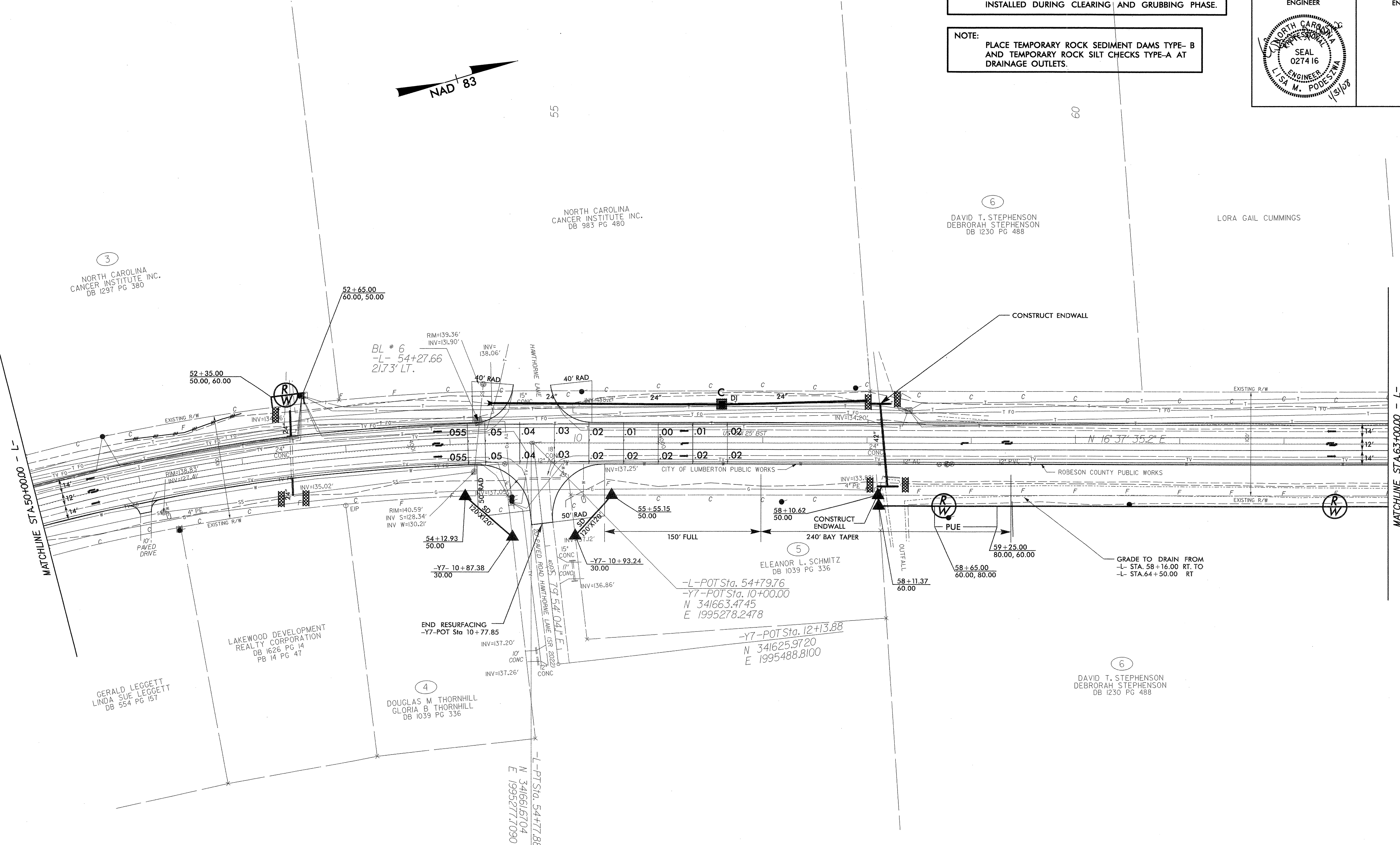


REVISIONS



NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



PI Sta 50+14.25
 $\Delta = 28^{\circ} 24' 38.2''$ (RT)
 $D = 2^{\circ} 59' 58.5''$
 $L = 947.15'$
 $T = 483.52'$
 $R = 1,910.13'$
 $e = 0.055$
 $RUNOFF = 182.6'$

REVISIONS

8/17/99

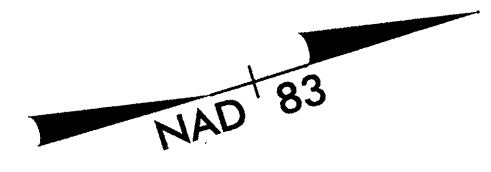
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8/17/99

PROJECT REFERENCE NO. R-5019	SHEET NO. EC-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

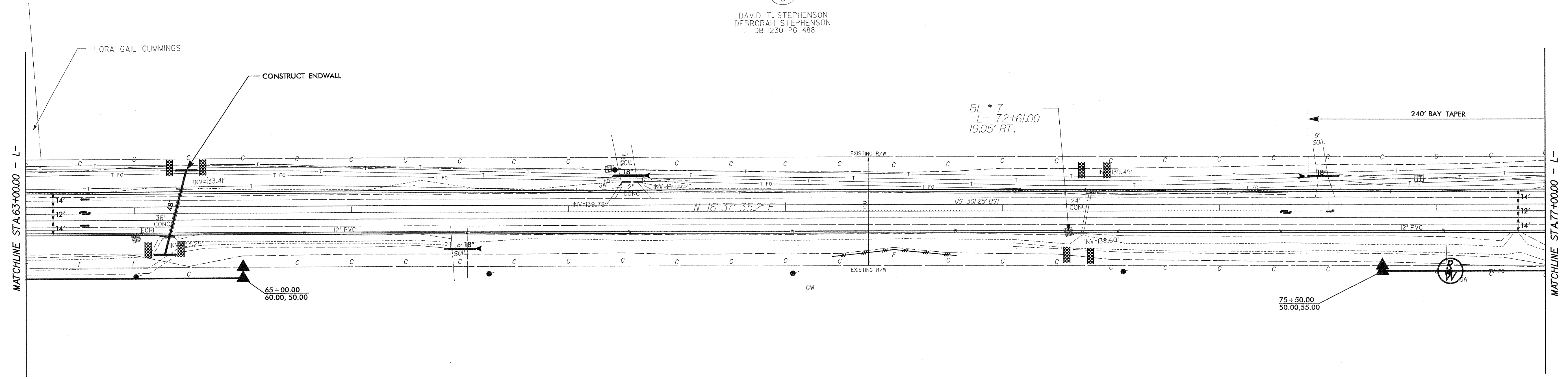


65

70

75

6
DAVID T. STEPHENSON
DEBORAH STEPHENSON
DB 1230 PG 488



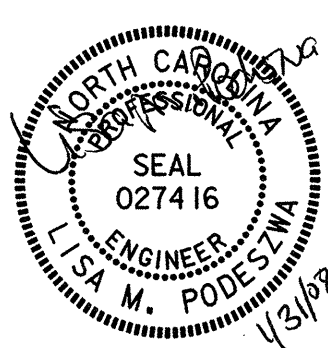
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DAVID T. STEPHENSON
DEBORAH STEPHENSON
DB 1230 PG 488

REVISIONS

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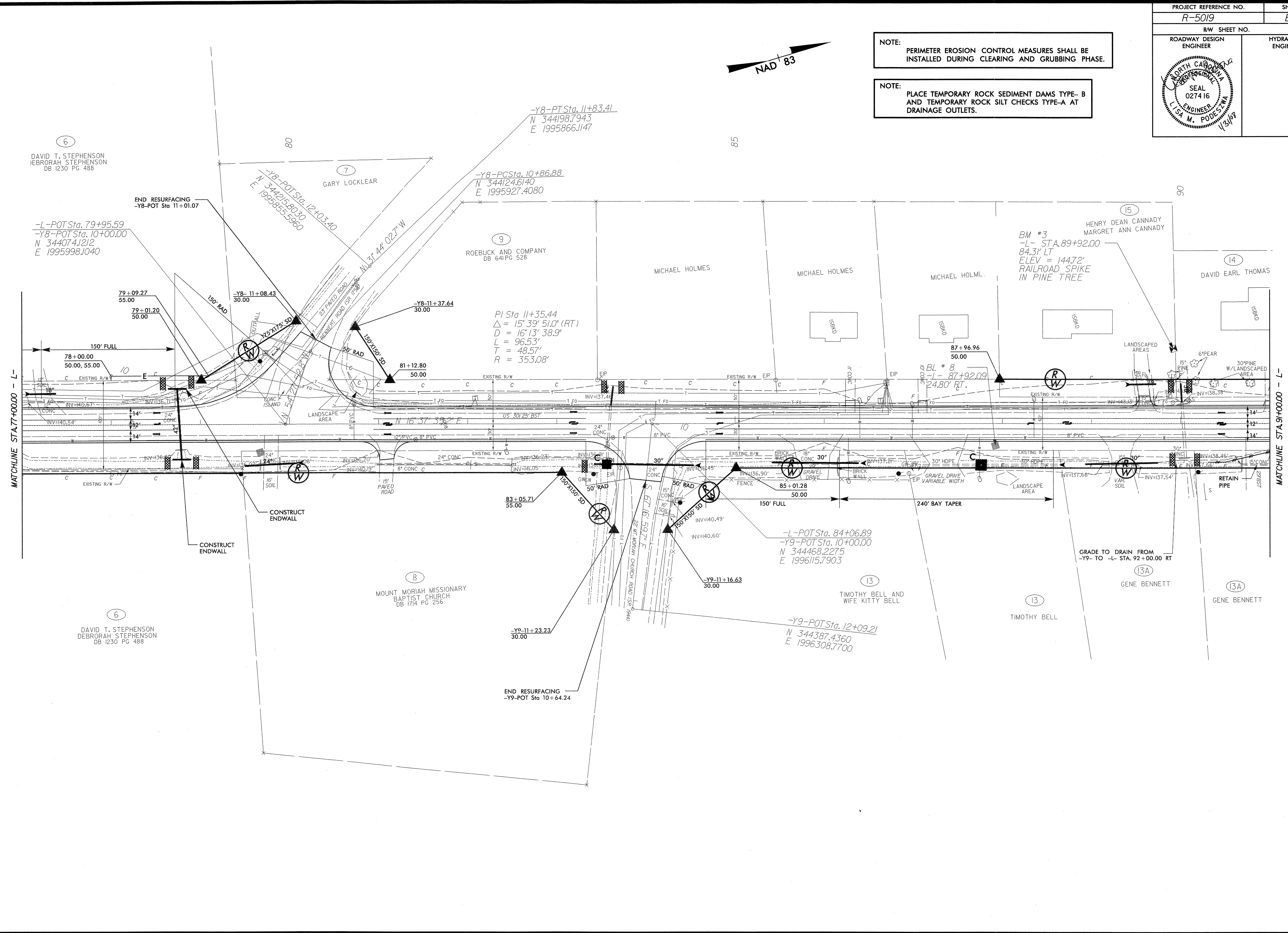
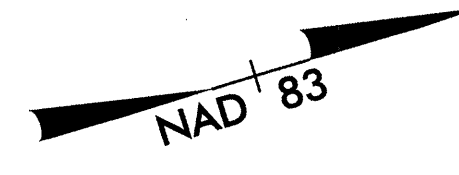
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PROJECT REFERENCE NO. R-5019	SHEET NO. EC-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



MATCHLINE STA. 77+00.00 - L-

MATCHLINE STA. 92+00.00 - L-

REVISIONS

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6
DAVID T. STEPHENSON
DEBORAH STEPHENSON
DB 1230 PG 488

7
GARY LOCKLEAR

9
ROEBUCK AND COMPANY
DB 641 PG 528

MICHAEL HOLMES

MICHAEL HOLMES

MICHAEL HOLML.

15
HENRY DEAN CANNADY
MARGRET ANN CANNADY
BM #3
-L- STA. 89+92.00
84.31' LT
ELEV = 144.72'
RAILROAD SPIKE
IN PINE TREE

14
DAVID EARL THOMAS

8
MOUNT MORIAH MISSIONARY
BAPTIST CHURCH
DB 174 PG 256

13
TIMOTHY BELL AND
WIFE KITTY BELL

13
TIMOTHY BELL

13A
GENE BENNETT

13A
GENE BENNETT

6
DAVID T. STEPHENSON
DEBORAH STEPHENSON
DB 1230 PG 488

END RESURFACING
-Y9-POT Sta 10+64.24

-Y9-POT Sta. 12+09.21
N 344387.4360
E 1996308.7700

-L-POT Sta. 84+06.89
-Y9-POT Sta. 10+00.00
N 344468.2275
E 1996115.7903

-Y8-PT Sta. 11+83.41
N 344198.7943
E 1995866.1147

-Y8-PCS Sta. 10+86.88
N 344124.6140
E 1995927.4080

-Y8-POT Sta. 12+03.40
N 344215.8030
E 1995855.5960

-L-POT Sta. 79+95.59
-Y8-POT Sta. 10+00.00
N 344074.1212
E 1995998.1040

END RESURFACING
-Y8-POT Sta 11+01.07

PI Sta 11+35.44
 $\Delta = 15^{\circ} 39' 51.0''$ (RT)
D = 16' 13' 38.9"
L = 96.53'
T = 48.57'
R = 353.08'

83+05.71
55.00

-Y9-11+16.63
30.00

-Y9-11+23.23
30.00

87+96.96
50.00

BL # 8
-L- 87+92.09
24.80' RT.

GRADE TO DRAIN FROM
-Y9- TO -L- STA. 92+00.00 RT

79+09.27
55.00

79+01.20
50.00

78+00.00
50.00, 55.00

-Y8-11+37.64
30.00

-Y8-11+08.43
30.00

6' PEAR

30' PINE
W/LANDSCAPED
AREA

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

15' PINE

30' PINE

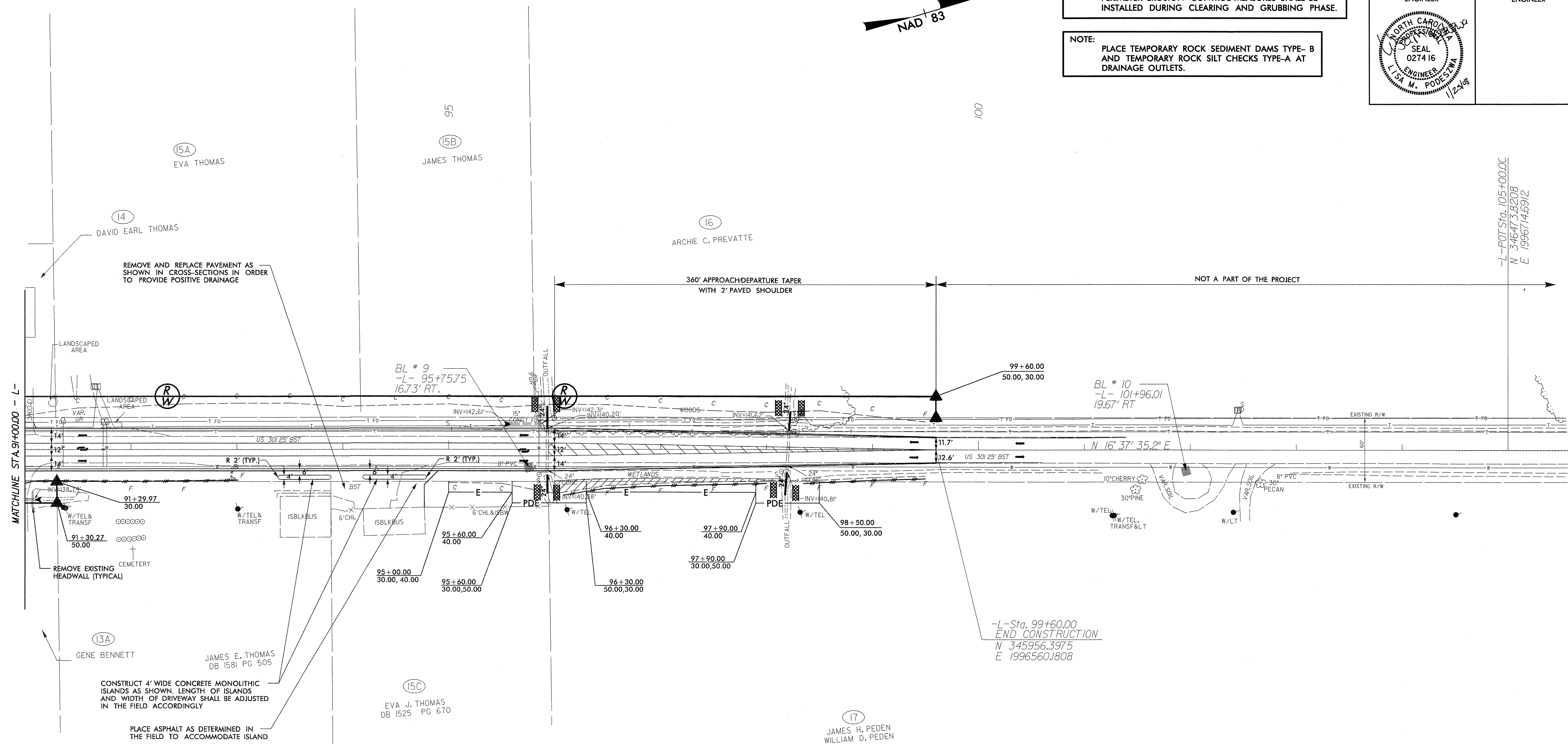
15' PINE

30' PINE

PROJECT REFERENCE NO. R-5019	SHEET NO. EC-8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



MATCHLINE STA. 91+00.00 - L-

-L- POT Sta. 105+00.00
N 34647.38208
E 1996714.6912

REMOVE AND REPLACE PAVEMENT AS SHOWN IN CROSS-SECTIONS IN ORDER TO PROVIDE POSITIVE DRAINAGE

REMOVE EXISTING HEADWALL (TYPICAL)

CONSTRUCT 4' WIDE CONCRETE MONOLITHIC ISLANDS AS SHOWN. LENGTH OF ISLANDS AND WIDTH OF DRIVEWAY SHALL BE ADJUSTED IN THE FIELD ACCORDINGLY

PLACE ASPHALT AS DETERMINED IN THE FIELD TO ACCOMMODATE ISLAND

-L- Sta. 99+60.00
END CONSTRUCTION
N 345956.3975
E 1996560.1808

NOT A PART OF THE PROJECT

REVISIONS

8/17/99

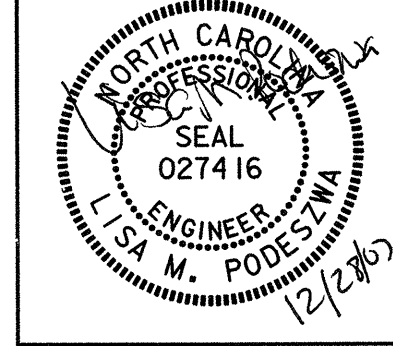
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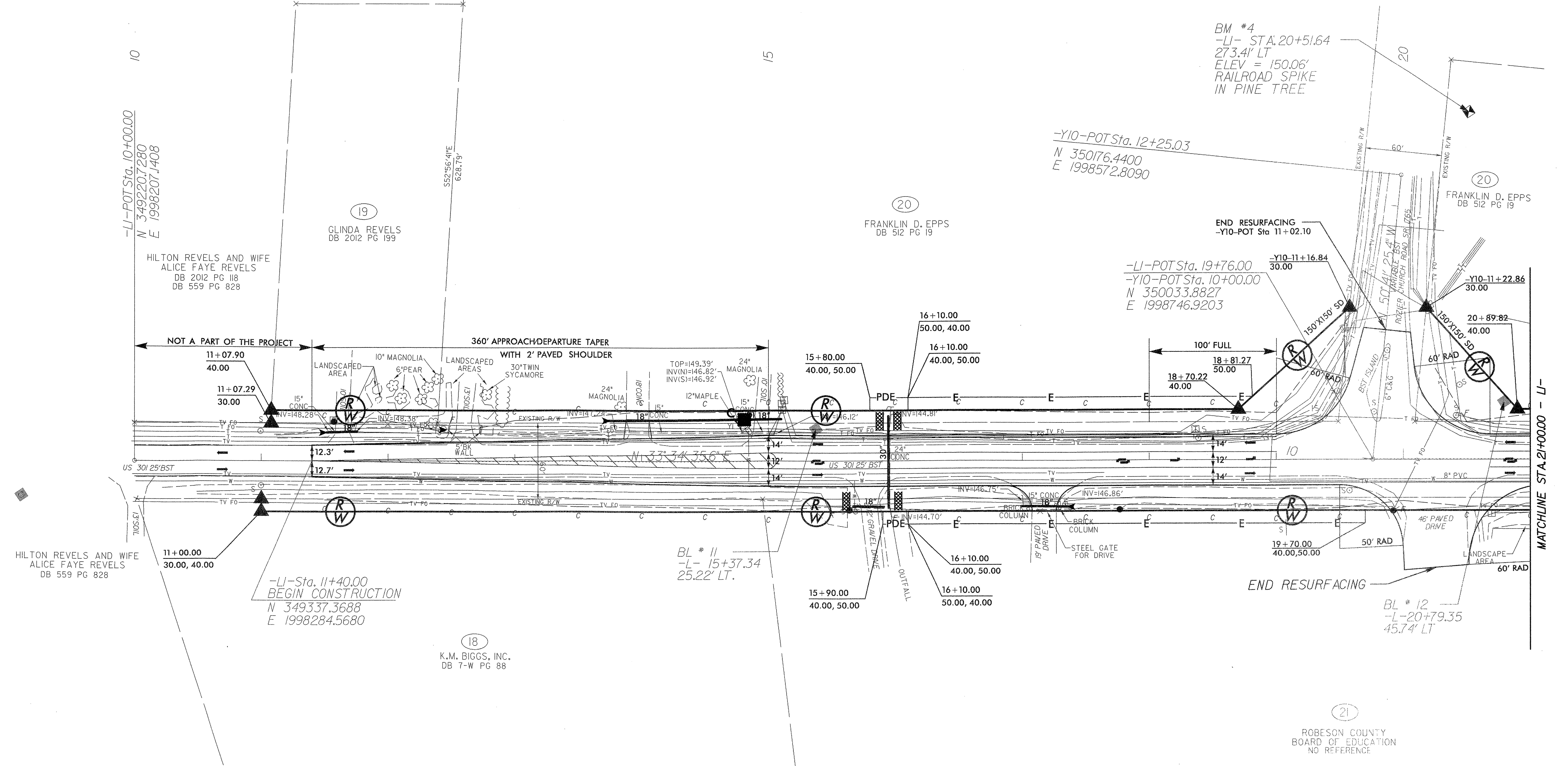
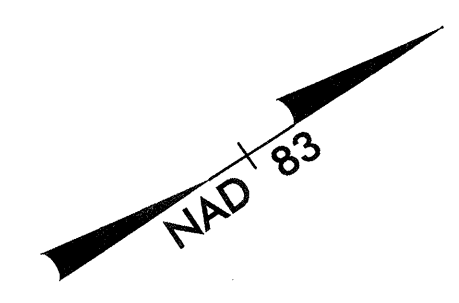
REVISIONS

PROJECT REFERENCE NO. R-5019	SHEET NO. EC-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
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NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



MATCHLINE STA. 21+00.00 - LI-

ROBESON COUNTY BOARD OF EDUCATION NO REFERENCE

