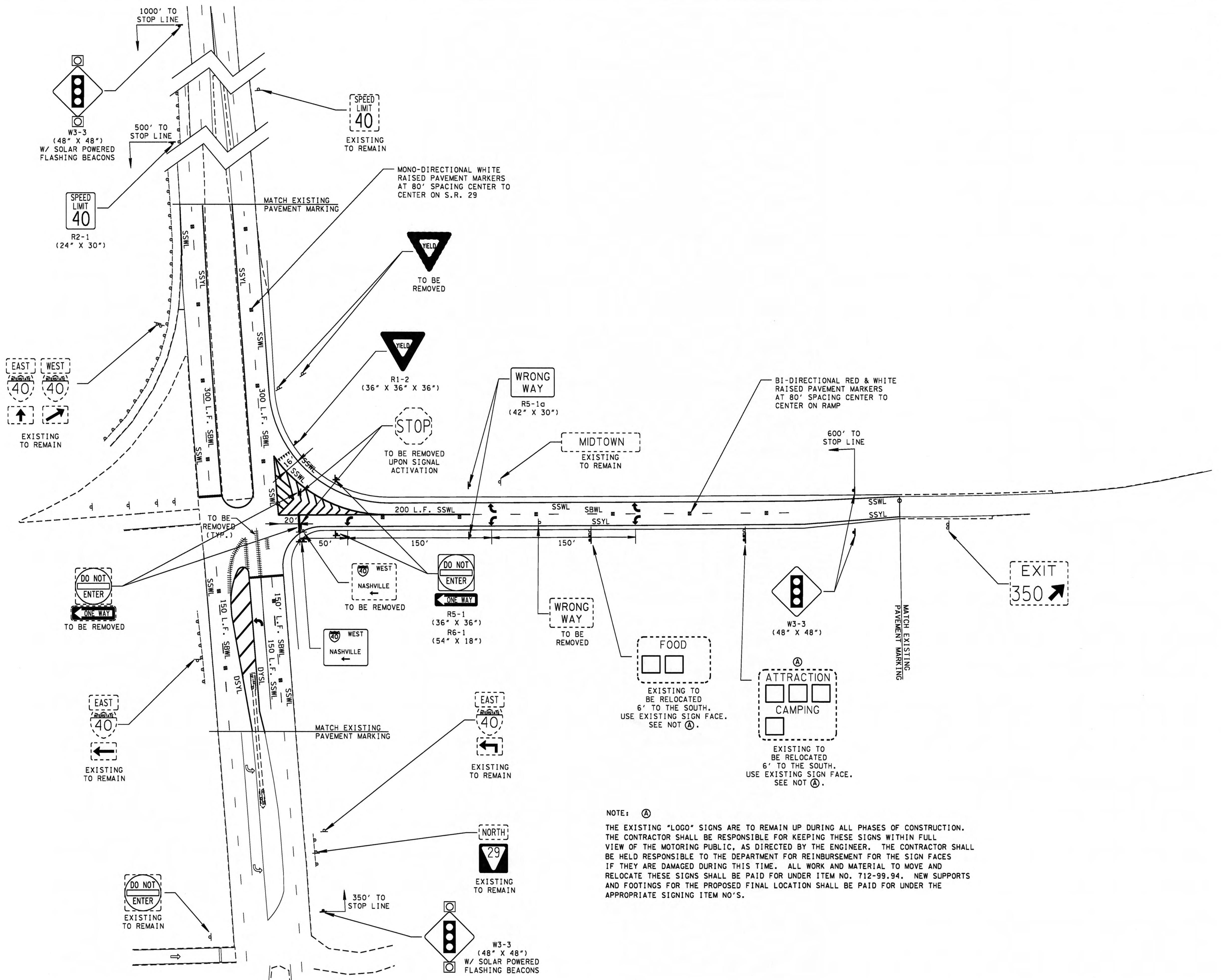


R.O.W. PLANS (UTILITIES ONLY)



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NOTE:

THE EXISTING "LOGO" SIGNS ARE TO REMAIN UP DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS WITHIN FULL VIEW OF THE MOTORING PUBLIC, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO THE DEPARTMENT FOR REINBURSEMENT FOR THE SIGN FACES IF THEY ARE DAMAGED DURING THIS TIME. ALL WORK AND MATERIAL TO MOVE AND RELOCATE THESE SIGNS SHALL BE PAID FOR UNDER ITEM NO. 712-99.94. NEW SUPPORTS AND FOOTINGS FOR THE PROPOSED FINAL LOCATION SHALL BE PAID FOR UNDER THE APPROPRIATE SIGNING ITEM NO'S.

COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.000090 AND TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

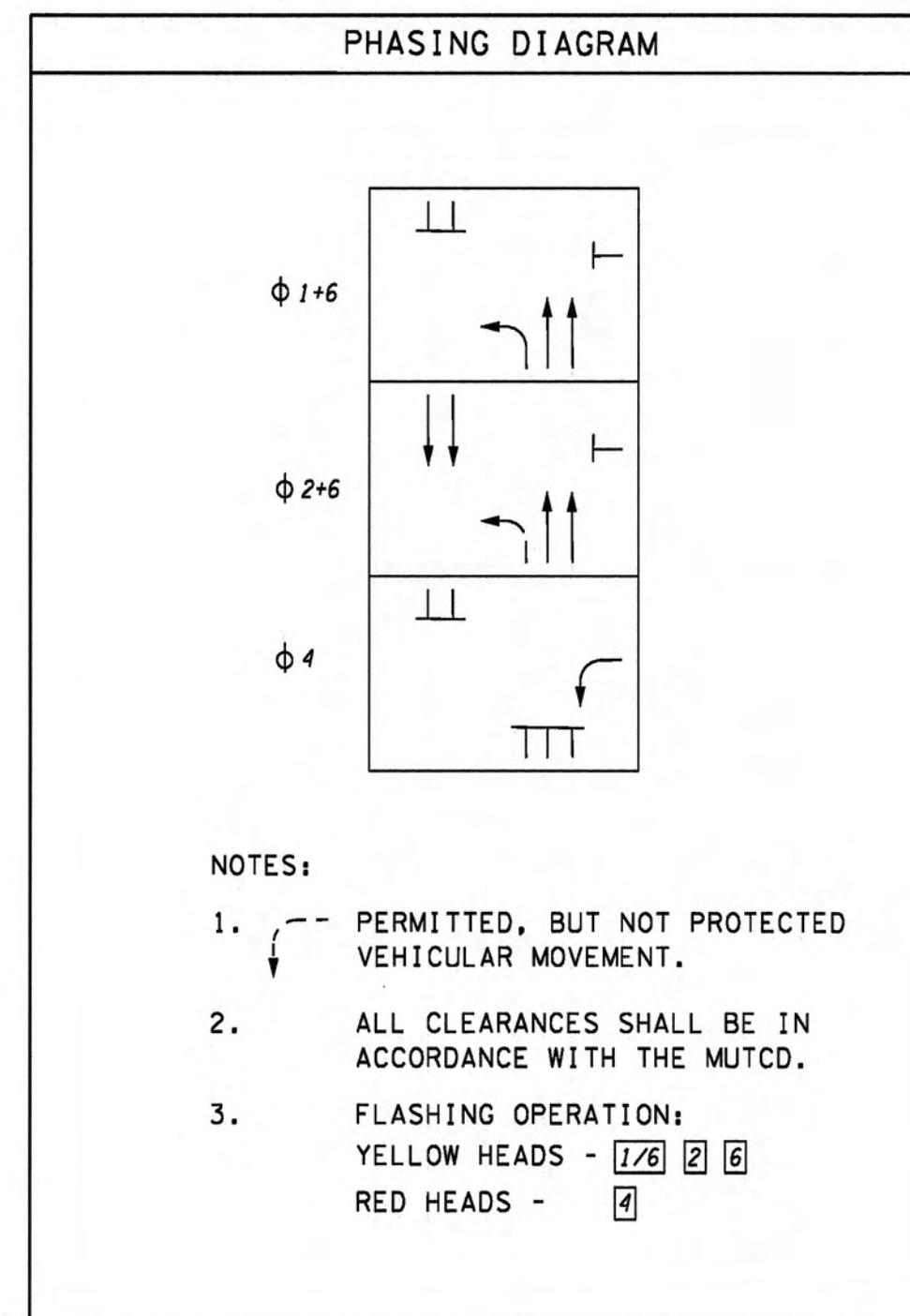
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN

STA. 50+00 TO STA. 58+00
SCALE: 1" = 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	9



SIGNAL TIMING

BASIC TIMING (SECS):

PHASE	MINIMUM INITIAL	VEHICLE INTERVAL	MAX I	MAX II	CLEARANCE		RECALL TO	MEMORY POSITION
					YELLOW	ALL RED		
1	6	3.0	15	15	4.0	2.0		OFF
2	20	4.0	40	40	4.5	1.5	MIN.	OFF
4	8	2.0	30	30	4.0	2.0		OFF
6	20	4.0	40	40	4.5	1.5	MIN.	OFF

NOTES:
1. PROGRAM 'PASSAGE SEQUENTIAL' AS INACTIVE (N).
2. OTHER REQUIRED SETTINGS AND FUNCTIONS SHALL BE APPROPRIATE VALUES AS RECOMMENDED BY THE CONTROLLER MANUFACTURER.

LOOP AND DETECTOR ASSIGNMENTS

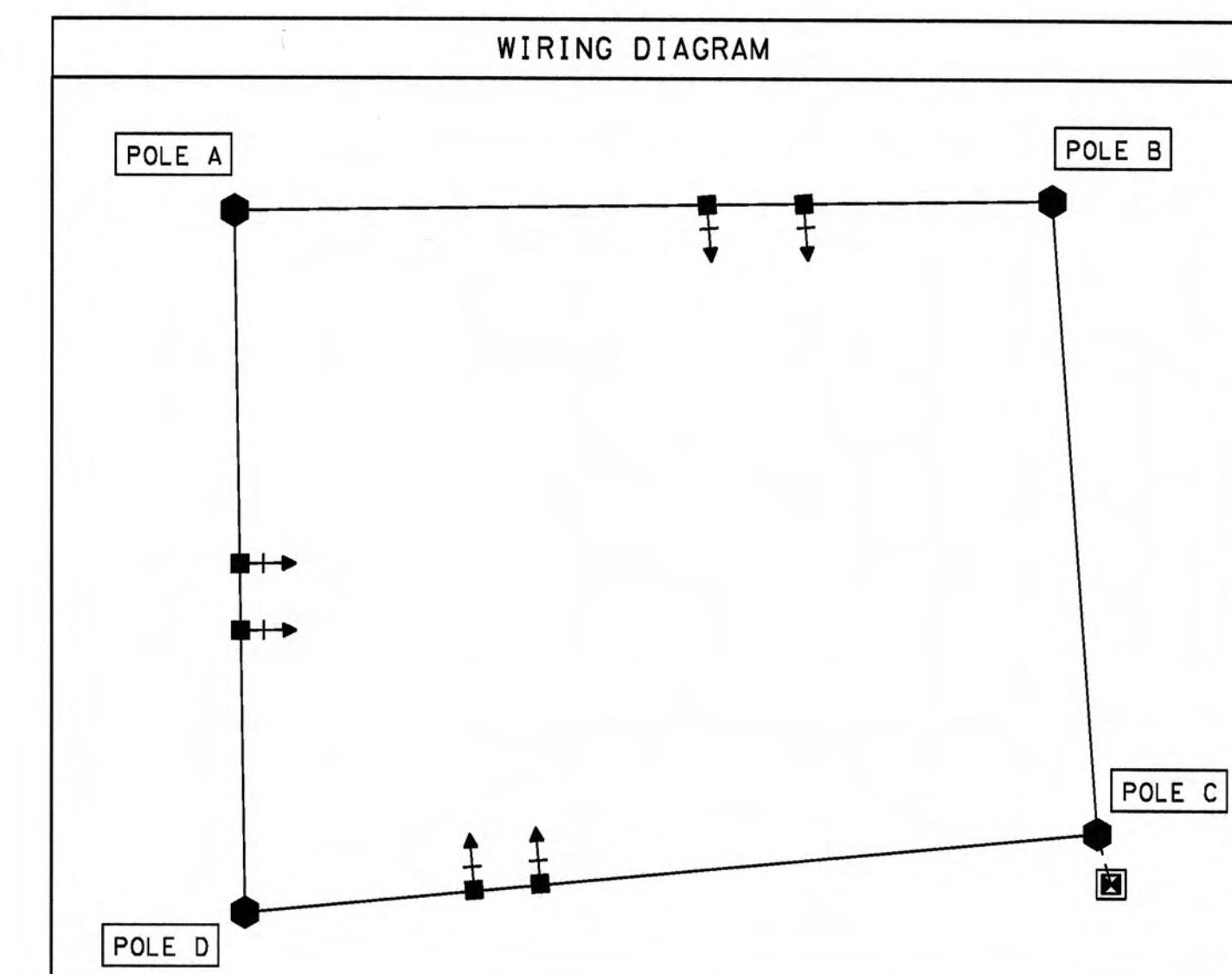
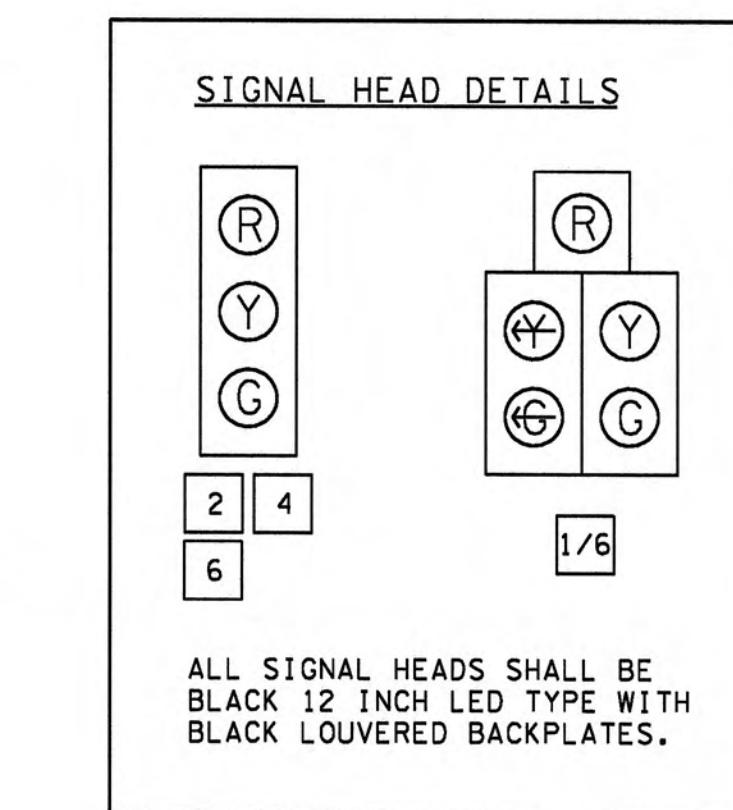
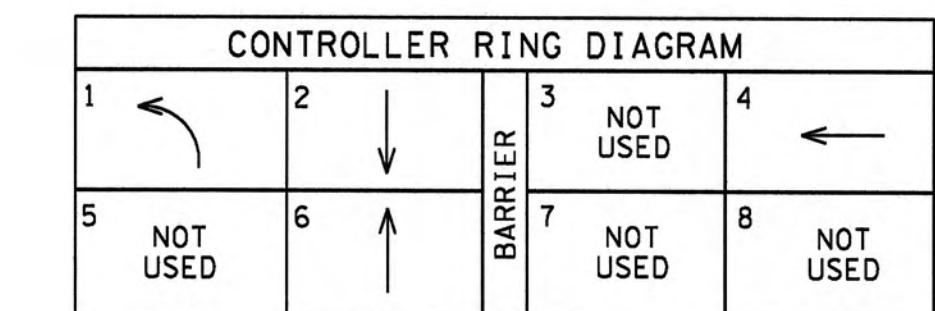
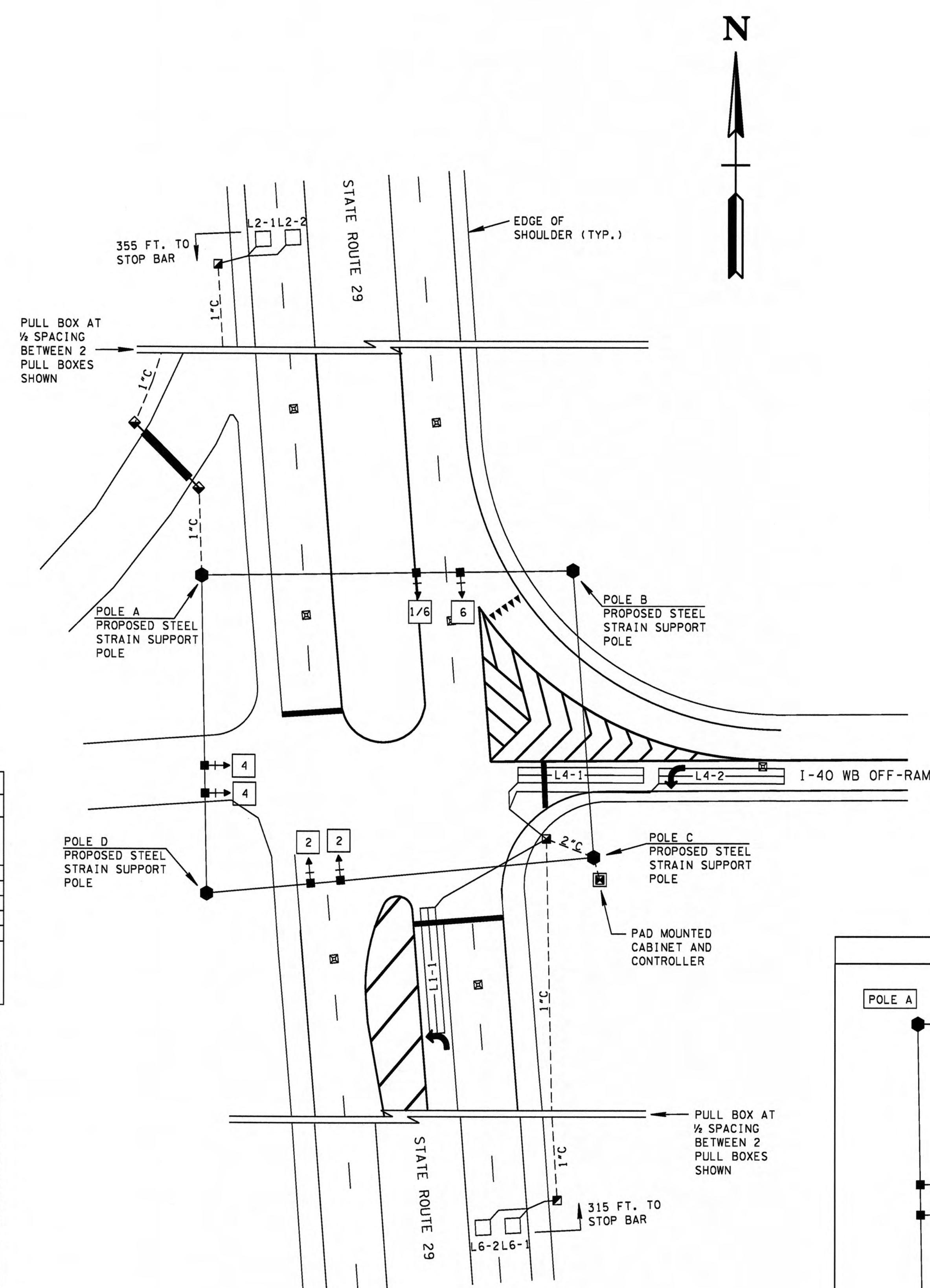
LOOP NO.	DETECTOR / CHANNEL	URNS*	LOOP SIZE (FT.)	ASSOC. PHASE	AMP MODE	COMMENTS
L1-1	1	2-4-2	6 x 50	1	PRES.	
L2-1	2	3	6 x 6	2	PRES.	
L2-2	3	3	6 x 6	2	PRES.	
L4-1	4	2-4-2	6 x 50	4	PRES.	
L4-2	5	2-4-2	6 x 50	4	PRES.	
L6-1	6	3	6 x 6	6	PRES.	
L6-2	7	3	6 x 6	6	PRES.	

* ALL STOP BAR LOOPS ARE QUADRUPOLE TYPE.

** DETECTORS SPECIFIED AS DELAY/NORMAL SHALL HAVE A TIME DELAYED OUTPUT WHEN ASSOCIATED PHASE NOT GREEN. DELAY SETTINGS AS SPECIFIED. OUTPUT SHALL BE NORMAL WHEN ASSOCIATED PHASE IS GREEN.

SIGNAL SUPPORT POLE DATA

POLE NO.	STATION	OFFSET (FT.)	NORTHING	EASTING	GROUND ELEV. @ POLE	ATTACHMENT ELEV.	MOMENT CAPACITY (FT.-LBS.)	FOOTING DEPTH (FT.)
A	205+37.50	69.5' L	572055.0512	2399405.4132				
B	205+28.50	78' R	572057.1115	2399553.4044				
C	204+14.50	78' R	571943.3788	2399561.6701				
D	204+11.50	77'L	571928.7839	2399407.4449				

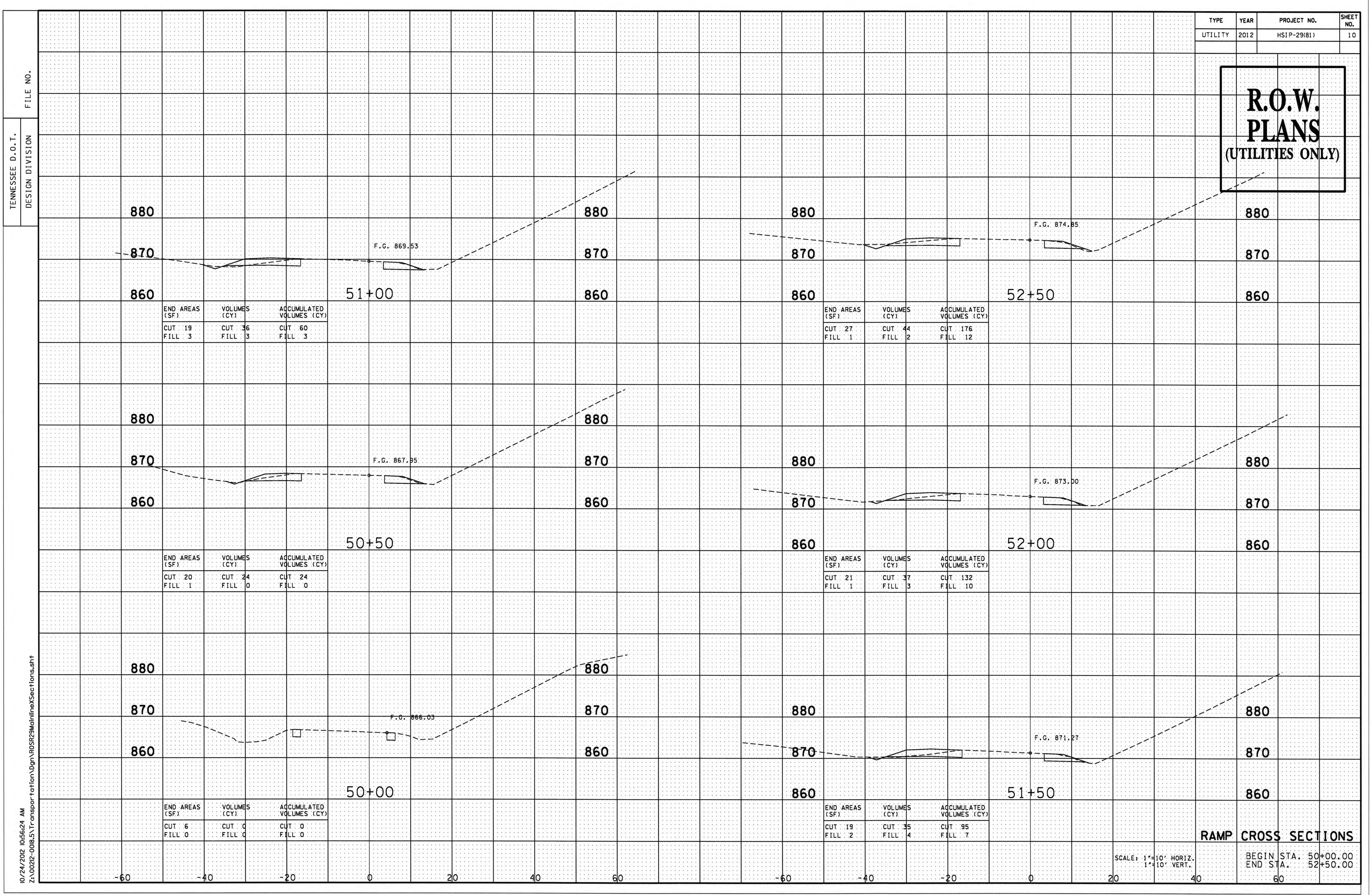


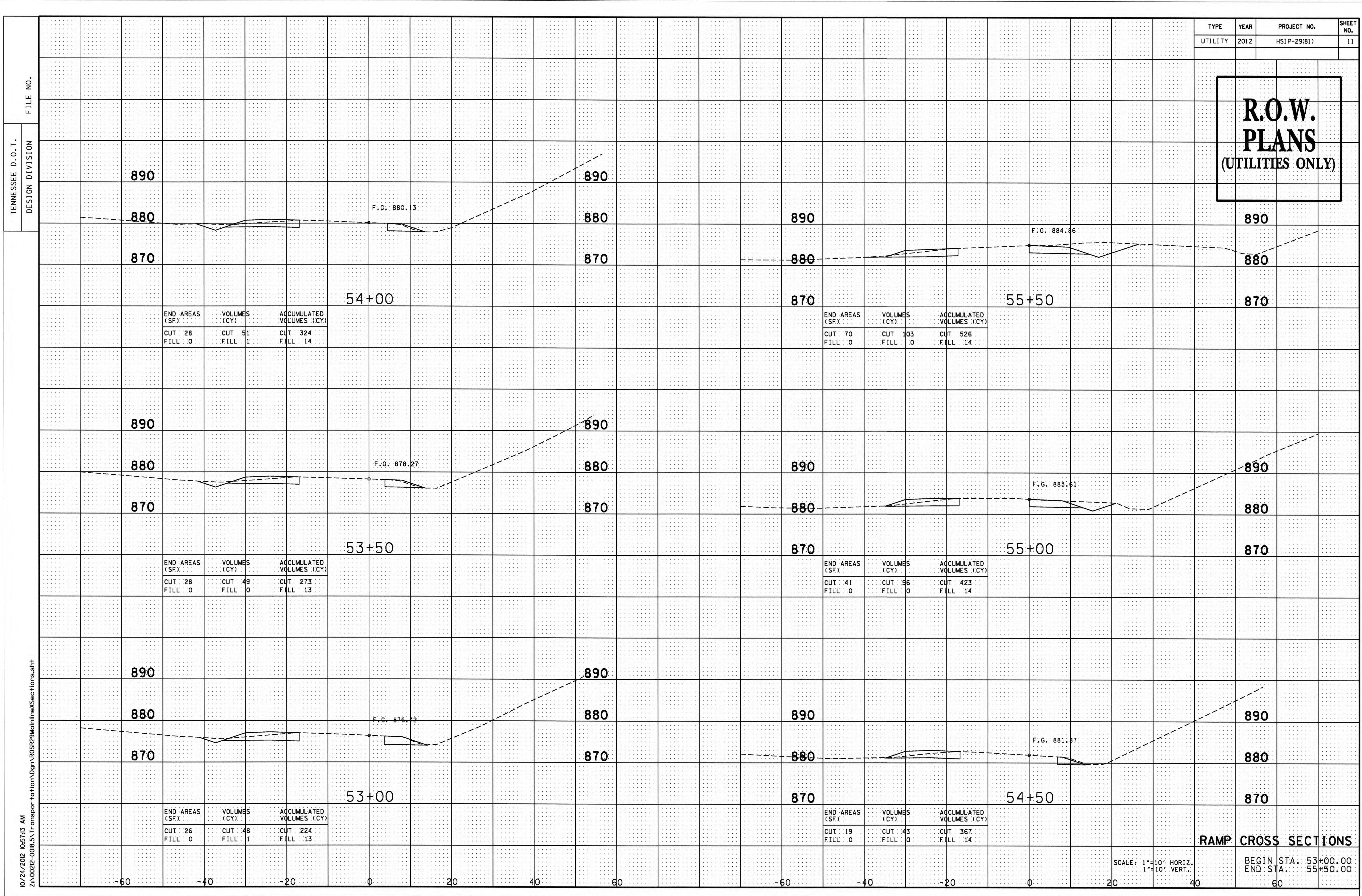
SEALED BY _____

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
SIGNAL LAYOUT

S.R. 29 AT
I-40 WB OFFRAMP
SCALE: 1"=30'





TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Index Of Sheets

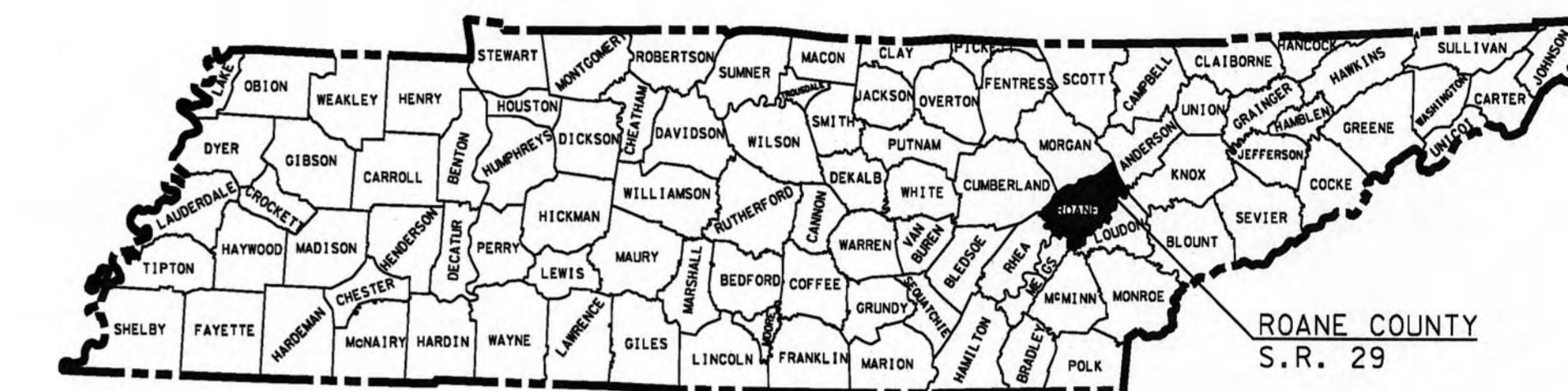
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	Typical Sections
4	Present Layout
4A	Proposed Layout
4B	Ramp Profile
5	Drainage Map
6	Erosion Prevention and Sediment Control Plan
7	Traffic Control Plan
8	Pavement Marking and Signing Plan
9	Proposed Signal Layout
10	Ramp Cross Sections
11	Ramp Cross Sections
12	Ramp Cross Sections

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

ROANE COUNTY

TENN.	YEAR	sheet no.
	2012	1
FED. AID PROJ. NO.	HSIP-29(81)	
STATE PROJ. NO.	73946-0206-94	

S.R. 29 ROANE CO.



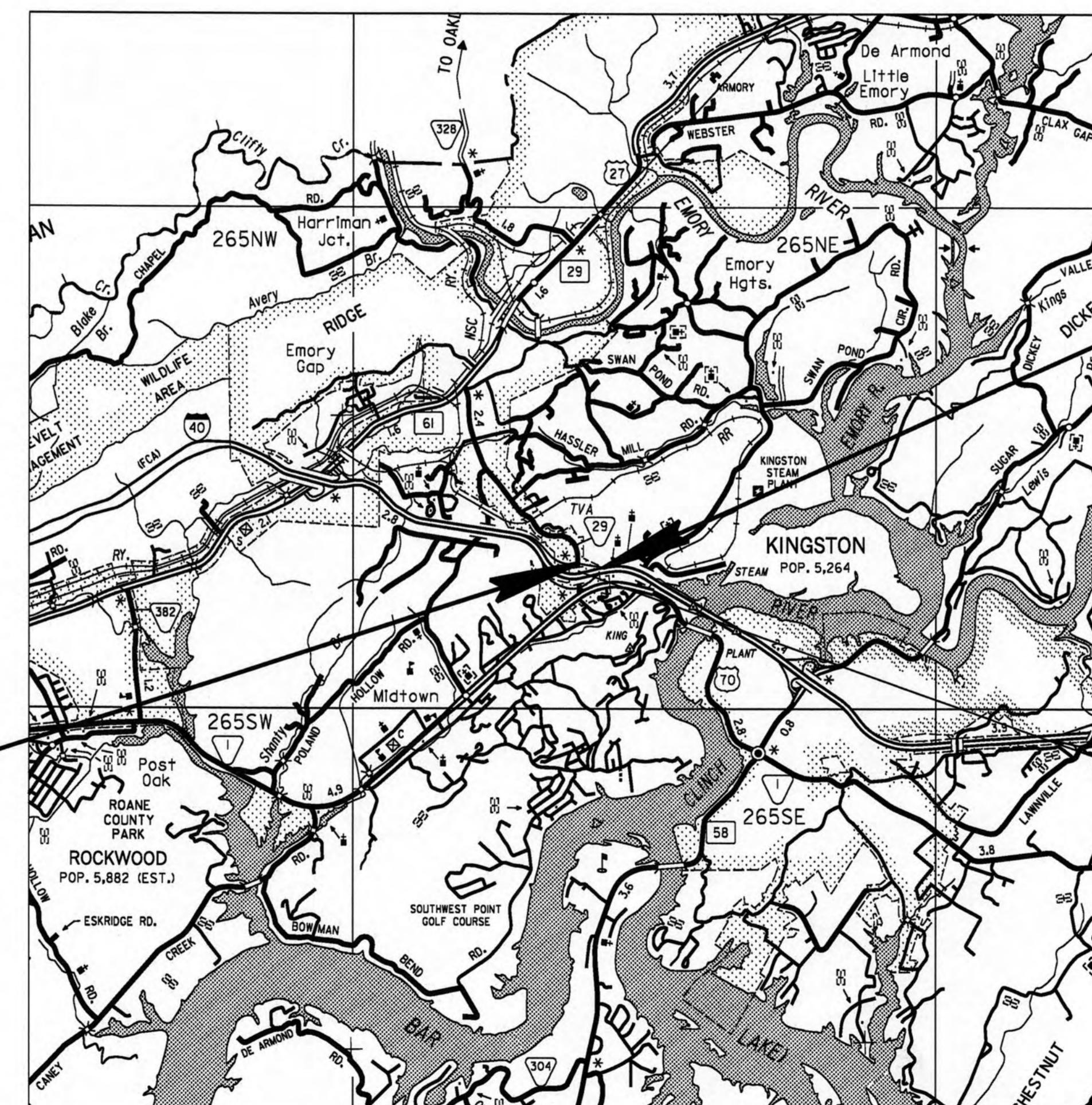
S.R. 29 (PINE RIDGE ROAD), INTERSECTION AT
I-40 WB OFFRAMP IN HARRIMAN

UTILITY

STATE HIGHWAY NO. 29 F.A.H.S. NO. 29

N

73946-0206-94
END PROJ. NO. HSIP-29(81)
STA. 56+47.96 (PREL.)



SCALE: 1" = 1 MILE

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 1 ROLAND L. JONES P.E.
DESIGNED BY CANNON & CANNON, INC.
DESIGNER JASON ELLIOTT, P.E. CHECKED BY ALAN CHILDERS, P.E.
P.E. NO. 73946-0206-94
PIN NO. 115971.00

PROJECT LENGTH

0.123 MILES

ORIGINAL SURVEY JULY 2012

TRAFFIC DATA	
ADT (2013)	11,280
ADT (2033)	16,920
DHV (2033)	1,579
D	70 - 30
T (ADT)	4 %
T (DHV)	3 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:

John Schroer
JOHN SCHROER, COMMISSIONER

APPROVED:

DIVISION ADMINISTRATOR DATE

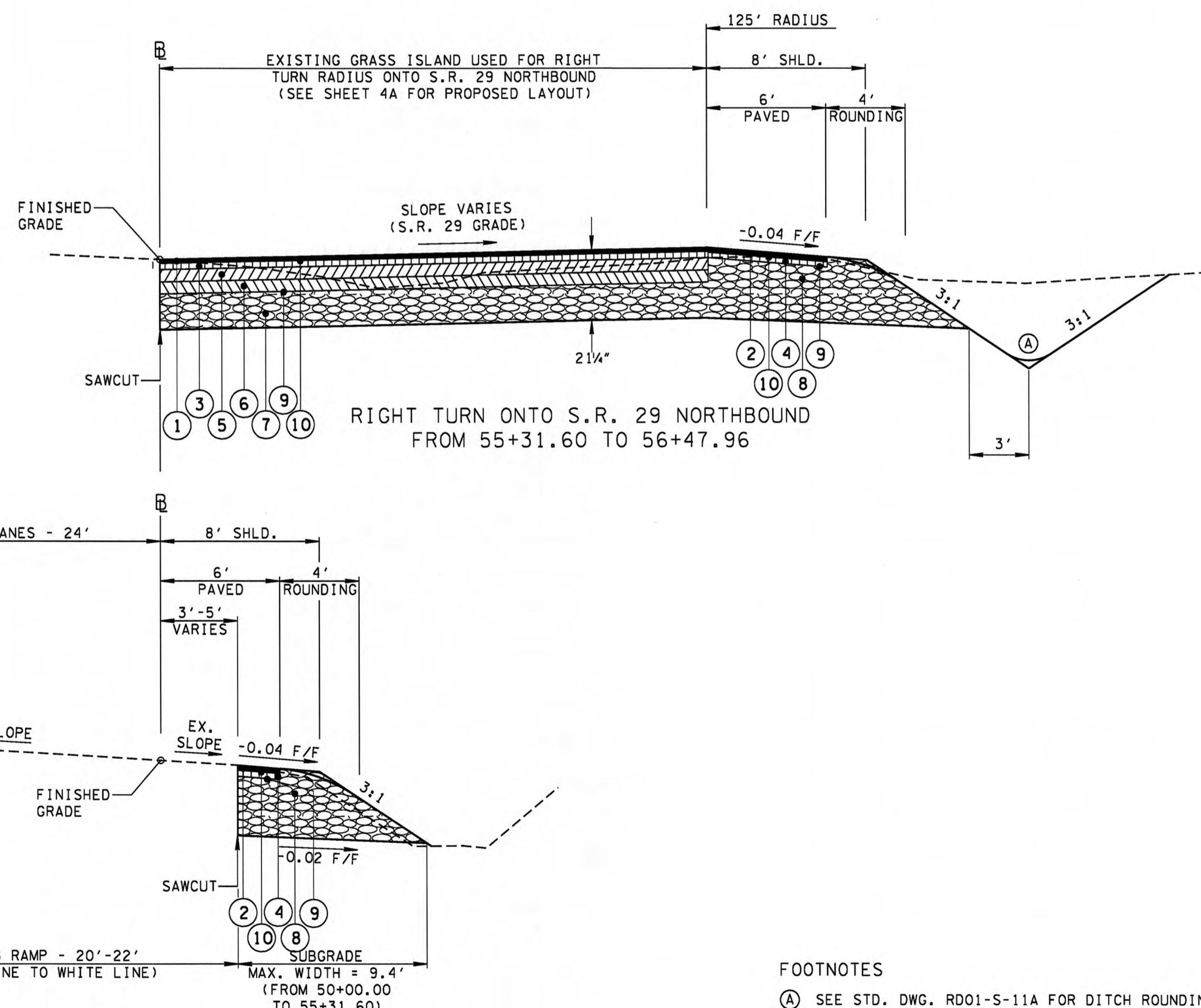
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.
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PROPOSED PAVEMENT SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	2

- | | |
|--|--|
| <p>① ASPHALT CONCRETE SURFACE @ 1.25" THICK (ROADWAY)</p> <p>(APPROX. 132.50 LBS./S.Y.)</p> <p>ITEM NO. 411-01.10 ACS MIX (PG76-22) GRADING D</p> | <p>⑦ MINERAL AGGREGATE BASE @ 10" THICK (ROADWAY)</p> <p>(APPROX. 1127.78 LBS./S.Y.) (FULL DEPTH AT SHLDR)</p> <p>ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D</p> |
| <p>② ASPHALT CONCRETE SURFACE @ 1.25" THICK (SHOULDER)</p> <p>(APPROX. 128.75 LBS./S.Y.)</p> <p>ITEM NO. 411-01.07 ACS MIX (PG64-22) GRADING E SHOULDER</p> | <p>⑧ MINERAL AGGREGATE BASE @ 18" THICK (SHOULDER)</p> <p>(APPROX. 2029.89 LBS./S.Y.)</p> <p>ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D</p> |
| <p>③ ASPHALT CONCRETE MIX @ 2" THICK (BINDER)</p> <p>(APPROX. 226 LBS./S.Y.)</p> <p>ITEM NO. 307-03.08 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRAD B-M2</p> | <p>⑨ PRIME COAT FOR SUBGRADE BASE</p> <p>ITEM NO. 402-01 BITUMINOUS MATERIAL FOR PC (APPROX. 0.35 GAL./S.Y.)</p> <p>ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (APPROX. 12 LBS./S.Y.)</p> |
| <p>④ ASPHALT CONCRETE MIX @ 2" THICK (BINDER)</p> <p>(APPROX. 226 LBS./S.Y.)</p> <p>ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRAD B-M2</p> | <p>⑩ TACK COAT FOR PAVEMENT LAYERS</p> <p>(APPROX. 0.02 GAL./S.Y.)</p> <p>ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT</p> |
| <p>⑤ ASPHALT CONCRETE MIX @ 4" THICK (BLACK BASE)</p> <p>(APPROX. 460 LBS./S.Y.)</p> <p>ITEM NO. 307-03.01 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A</p> | <p>B</p> <p>EXISTING GRASS ISLAND USED FOR
TURN RADIUS ONTO S.R. 29 NORTH
(SEE SHEET 4A FOR PROPOSED LAY)</p> |
| <p>⑥ ASPHALT CONCRETE MIX @ 4" THICK (BLACK BASE)</p> <p>(APPROX. 360 LBS./S.Y.)</p> <p>ITEM NO. 307-03.03 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A-S</p> | |

R.O.W. PLANS (UTILITIES ONLY)



TANGENT SECTION FOR 2-LANE RAMPS
STD. DWG. RD01-TS-4
FROM 50+00.00 TO 56+47.96

FOOTNOTES

(A) SEE STD. DWG. RD01-S-11A FOR DITCH ROUNDING.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	3

R.O.W. PLANS (UTILITIES ONLY)

SEALED BY

COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
ACTOR OF 1.000090 AND TIED TO
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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

PROPERTY MAP

STA. 50+00 TO STA. 58+00

SCALE: 1" = 100'

Digitized by srujanika@gmail.com

UTILITY OWNERS

ELECTRIC:	HARRIMAN UTILITY BOARD P.O. BOX 434, 300 N ROANE STRE HARRIMAN, TN 37748 JAMES BURNHAM: (865) 285-1022
TELEPHONE:	AT&T 9733 PARKSIDE DRIVE KNOXVILLE, TN 37922 DAVID OVERMAN: (865) 539-8534 NO UNDERGROUND LINES MARKED IN FIELD
WATER:	HARRIMAN UTILITY BOARD P.O. BOX 434, 300 N ROANE STRE HARRIMAN, TN 37748 JAMES BURNHAM: (865) 285-1022
SEWER:	HARRIMAN UTILITY BOARD P.O. BOX 434, N ROANE STREET HARRIMAN, TN 37748 JAMES BURNHAM: (865) 285-1022
GAS:	HARRIMAN UTILITY BOARD P.O. BOX 434, N ROANE STREET HARRIMAN, TN 37748 JAMES BURNHAM: (865) 285-1022
CABLE:	XFINITY (COMCAST) 5720 ASHEVILLE HIGHWAY KNOXVILLE, TN 37924 J.T. POPE: (865) 862-5060

AHLER FAMILY PARTNERSHIP, L.P.

NATIONAL AMUSEMENT COMPANY, INC.

JERRY M. & JUDY C. DUNCAN
& STEVE KIRKHAM

10

73946-0206-9
END PROJ. NO. HSIP-29(8)
STA. 56+47.96 (PREL.)

73946-0206-94
BEGIN PROJ. NO. HSIP-29(81)
STA. 50+00.00 (PREL.)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	4

R.O.W. PLANS (UTILITIES ONLY)

NATIONAL AMUSEMENT COMPANY, INC.

N

AHLER
FAMILY
PARTNERSHIP

BEGIN CONSTRUCTION
STA. 50+00.00 RAMP
N 571997.4086
E 2400167.8855
S 77° 15' 0" W
386.13'

END CONSTRUCTION
STA. 56+47.96 RAMP
N 571993.0955
E 2399479.8331
N 571993.3450
E 2399519.6410

73946-0206-94
BEGIN PROJ. NO. HSIP-29(81)
STA. 50+00.00 (PREL.)

73946-0206-94
END PROJ. NO. HSIP-29(81)
STA. 56+47.96 (PREL.)

55

55

AREA TO BE SCARIFIED AND OBLITERATED

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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

PRESENT LAYOUT

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	4A



**R.O.W.
PLANS
(UTILITIES ONLY)**

205

B STA. 56+88.07 RAMP =
B STA. 204+70.24 S.R.29
N 571993.0955
E 2399479.8331

END CONSTRUCTION
B STA. 56+47.96 RAMP
N 571993.3450
E 2399519.6410

B STA. 209+50.00 S.R.29
N 572471.4889
E 2399443.6612

55

B STA. 202+00.00 S.R.29
N 571723.6236
E 2399500.2082

73946-0206-94
END PROJ. NO. HSIP-29(81)
STA. 56+47.96 (PREL.)

BEGIN CONSTRUCTION
B STA. 50+00.00 RAMP
N 571997.4086
E 2400167.8855

END TAPER
STA. 51+00
24.00' LT.

BEGIN TAPER
STA. 50+00
16.62' LT.

100' TAPER

73946-0206-94
BEGIN PROJ. NO. HSIP-29(81)
STA. 50+00.00 (PREL.)

50

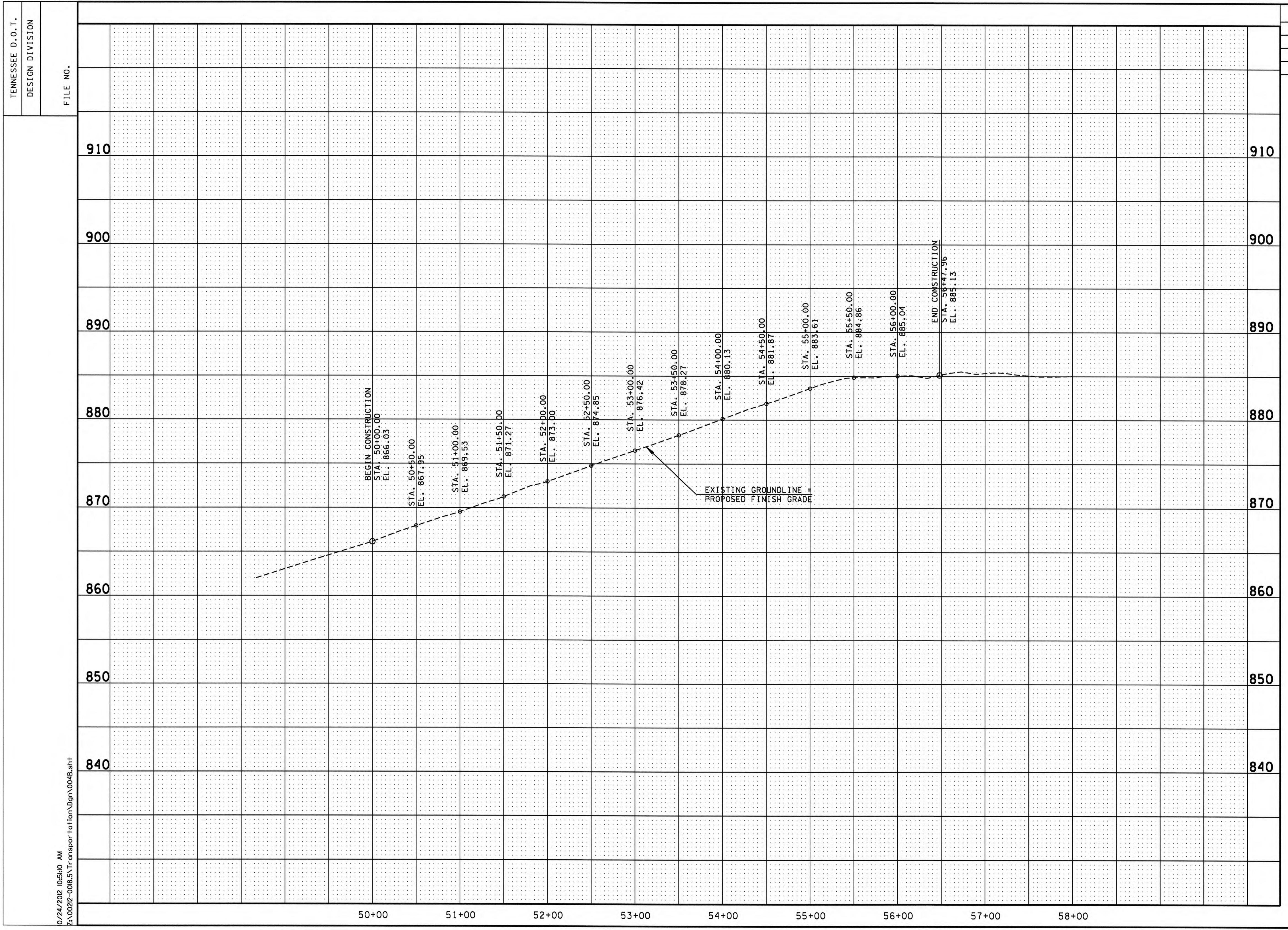
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**PROPOSED
LAYOUT**

STA. 50+00 TO STA. 58+00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	4B

**R.O.W.
PLANS
(UTILITIES ONLY)**

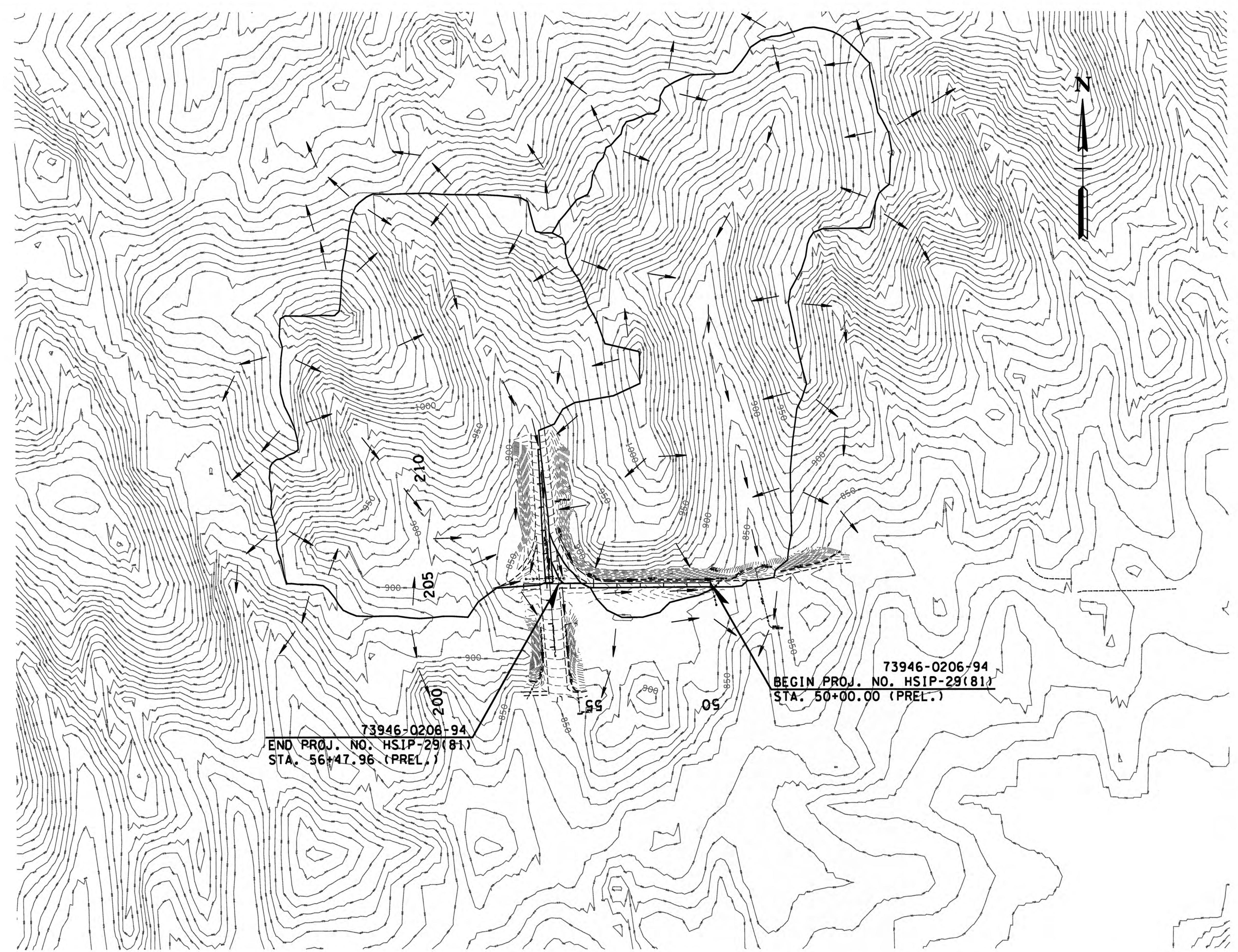
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**RAMP
PROFILE**
STA. 50+00 TO STA. 58+00
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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TYPE	YEAR	PROJECT NO.	sheet no.
UTILITY	2012	HSIP-29(81)	5

R.O.W.
PLANS
(UTILITIES ONLY)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

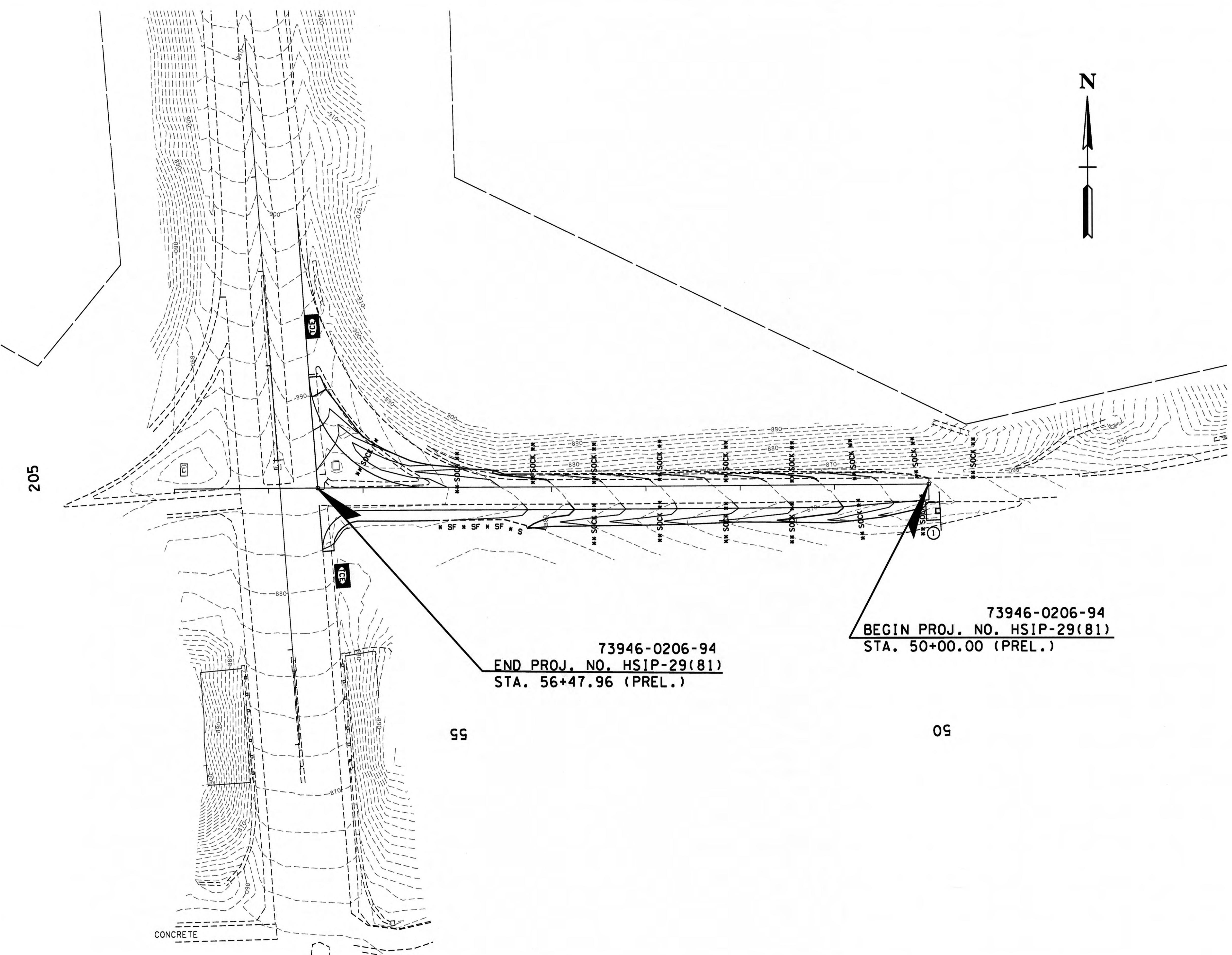
STA. 50+00 TO STA. 58+00
SCALE: 1"=200'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2012	HSIP-29(81)	6



**R.O.W.
PLANS
(UTILITIES ONLY)**



SEALED BY _____

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STA. 50+00 TO STA. 58+00
SCALE: 1" = 50'