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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

LOCATION: I-40 FROM SR 1728 (WADE AVENUE) TO WEST OF I-440/US 1

TYPE OF WORK: PAVEMENT REHABILITATION, BRIDGE PRESERVATION, DRAINAGE AND ITS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5943	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45886.1.1	N/A	P.E.	
45886.3.1	0040107	CONST.	

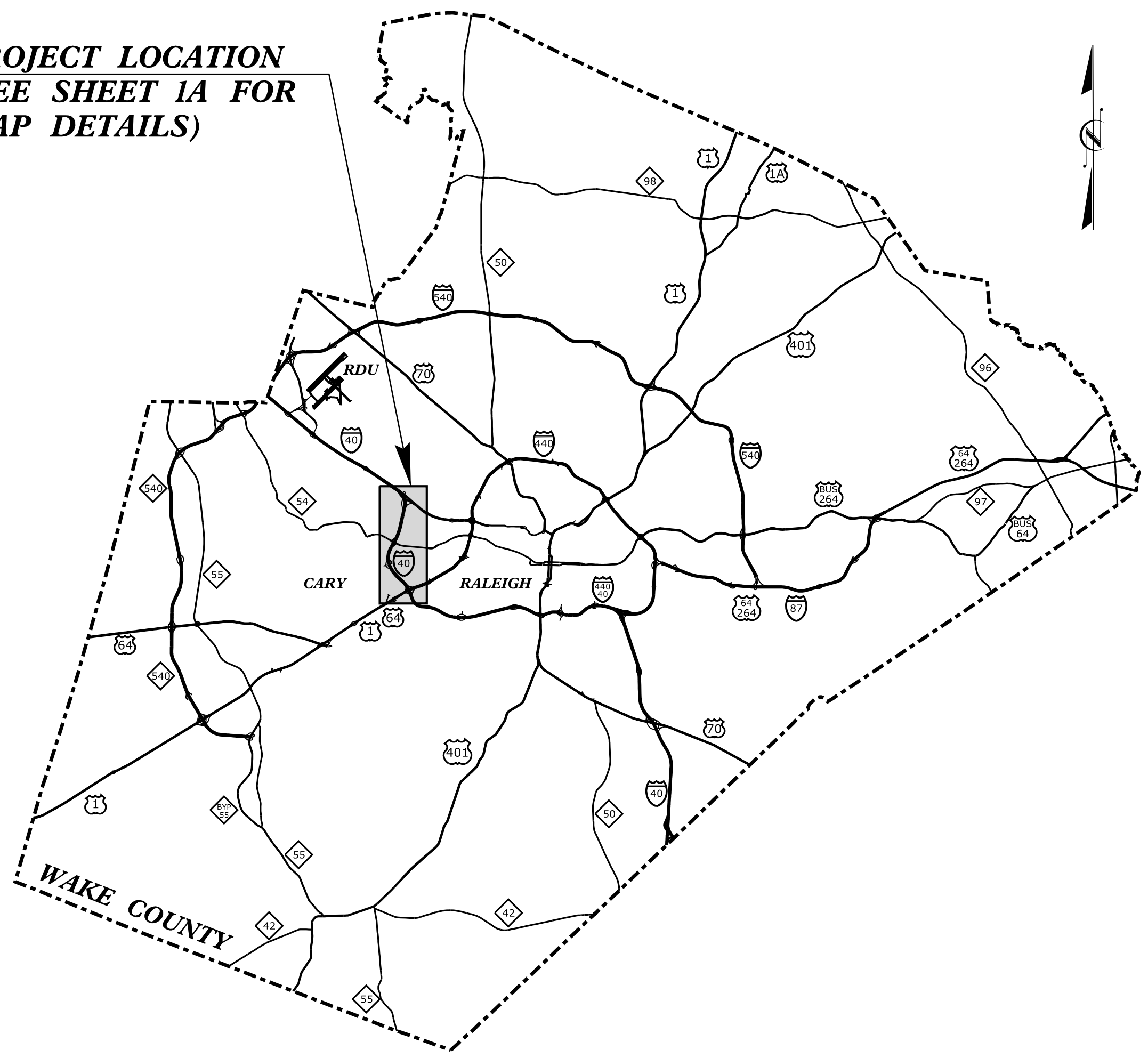
TIP PROJECT: I-5943

CONTRACT: C204694

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	MAP DETAILS
2A-1 - 2A-4	TYPICAL SECTIONS
2B-1 - 2B-5	ROADWAY DETAILS
2D-1	DRAINAGE DETAILS
3B-1	GUARDRAIL SUMMARY
3B-2	DRAINAGE SUMMARY
3B-3 - 3B-4	SUMMARY OF QUANTITIES
4 - 10	PLAN SHEETS
EC-1 - EC-3	EROSION CONTROL PLANS
SIGN-1 - SIGN-9	SIGNING PLANS
ITS-1 - ITS-27	ITS PLANS
1, 1A, S-1	STRUCTURE PLANS
S1-2 - S1-28	
S2-1 - S2-7	
S3-1 - S3-7	
SD-1, SN	

PROJECT LOCATION
(SEE SHEET 1A FOR
MAP DETAILS)



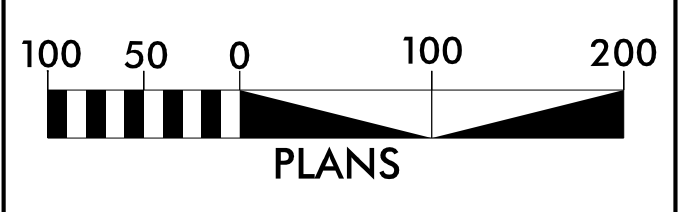
VICINITY MAP (N.T.S)

2018 ROADWAY STANDARD DRAWINGS EFF. 01-16-2018 REV.
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

- | STD. NO. | TITLE |
|---|--|
| DIVISION 5 - SUBGRADE, BASES AND SHOULDERS | |
| 560.02 | Method of Shoulder Construction - High Side of Superelevated Curve - Method II |
| DIVISION 6 - ASPHALT BASES AND PAVEMENTS | |
| 665.01 | Asphalt Shoulders - Milled Rumble Strips |
| DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS | |
| 700.01 | Concrete Pavement Joints - Construction and Contraction Joints |
| 700.03 | Dowel Assembly |
| 700.05 | Tying Proposed Pavement to Existing |
| DIVISION 8 - INCIDENTALS | |
| 840.29 | Frames and Narrow Slot Flat Grates |
| 840.35 | Traffic Bearing Grated Drop Inlet |
| 846.01 | Concrete Curb, Gutter and Curb & Gutter |
| 862.01 | Guardrail Placement |
| 862.02 | Guardrail Installation |
| DIVISION 11 - WORK ZONE TRAFFIC CONTROL | |
| 1101.01 | Work Zone Advance Warning Signs |
| 1101.02 | Temporary Lane Closures |
| 1101.04 | Temporary Shoulder Closures |
| 1101.11 | Traffic Control Design Tables |
| 1110.01 | Stationary Work Zone Signs |
| 1110.02 | Portable Work Zone Signs |
| 1115.01 | Flashing Arrow Boards |
| 1130.01 | Drums |
| 1135.01 | Cones |
| 1165.01 | Truck Mounted Attenuator |
| 1180.01 | Skinny Drums |
| DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION | |
| 1205.01 | Line Types and Offsets |
| 1205.02 | Pavement Markings |
| 1205.03 | Pavement Markings |
| 1205.06 | Pavement Markings |
| 1205.08 | Pavement Markings |
| 1250.01 | Raised Pavement Markers |
| 1253.01 | Raised Pavement Markers |
| 1261.01 | Guardrail and Barrier Delineators |
| 1261.02 | Guardrail & Barrier Delineators |
| 1262.01 | Guardrail End Delineation |
| DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT | |
| 1605.01 | Temporary Silt Fence |
| 1632.03 | Rock Inlet Sediment Trap Type C |

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

GRAPHIC SCALES



DESIGN DATA

2019 AADT = 132,000
T = 5%
POSTED SPEED = 65 MPH
FUNC CLASS = INTERSTATE

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT I-5943 = 3.648 MILES
SEE STRUCTURE PLANS FOR STRUCTURE LENGTH

Prepared for NCDOT in the Office of:
ATCS
100 REGENCY FOREST DRIVE, SUITE 130
CARY, NORTH CAROLINA 27518
919-341-9418 <http://www.atcspic.com/>
NC LICENSE NO. P-0192
ENGINEERING | PLANNING | SURVEYING | ENVIRONMENTAL

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
APRIL 19, 2022

PAMELA R. WILLIAMS
NCDOT CONTACT

TIM S. HAYES, PE
PROJECT ENGINEER

JASON D. BRED A, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

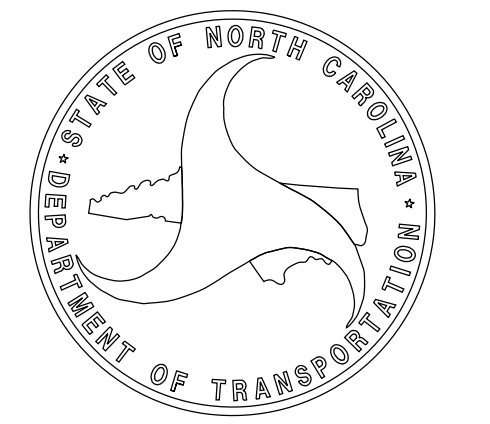
DocuSigned by:
Randy Henegar
SIGNATURE

Professional Engineer Seal: RANDALL C. HENEGAR, SEAL 016600, P.E. 3/10/2022

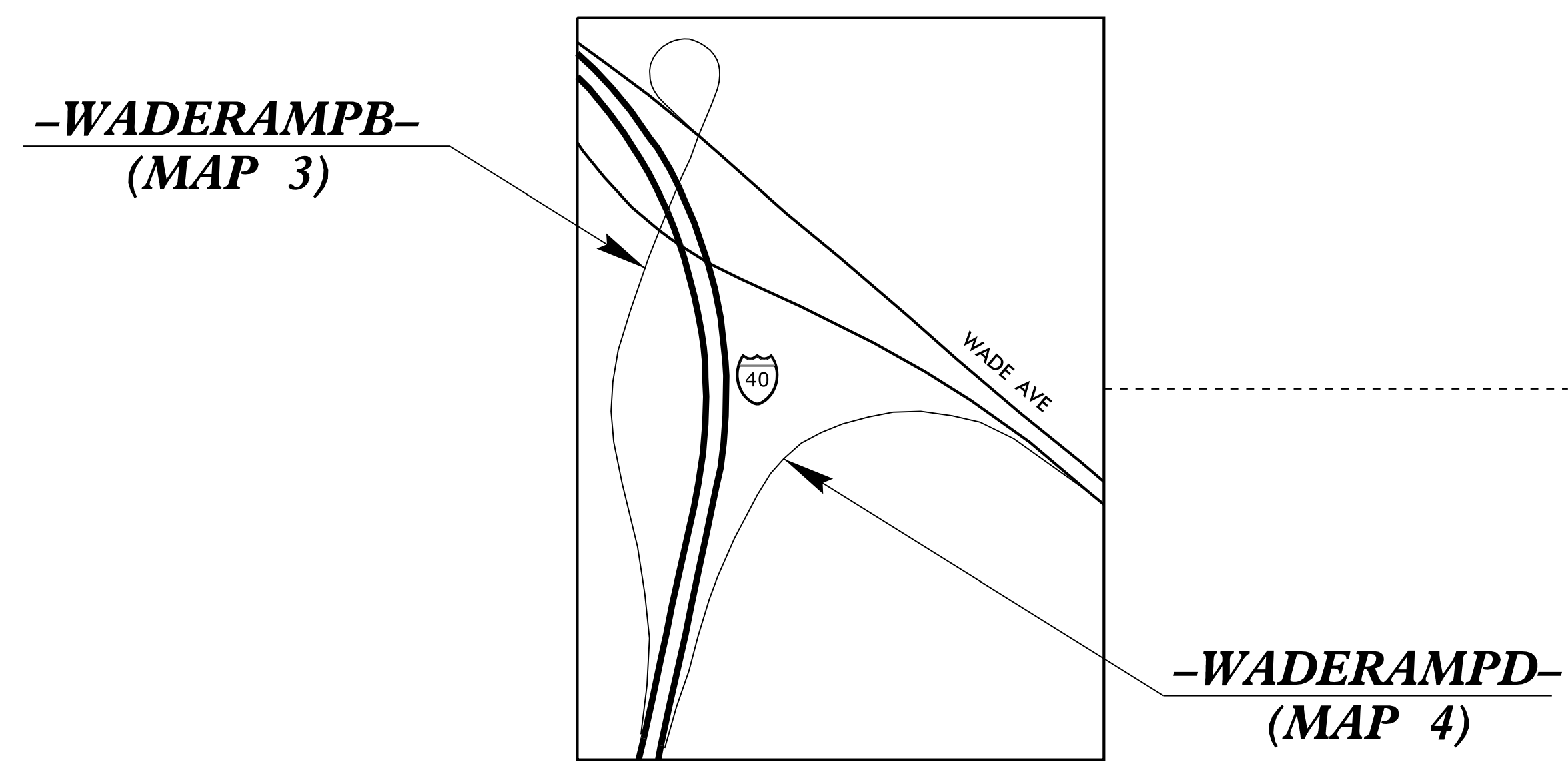
ROADWAY DESIGN ENGINEER

DocuSigned by:
Timothy Hayes
SIGNATURE

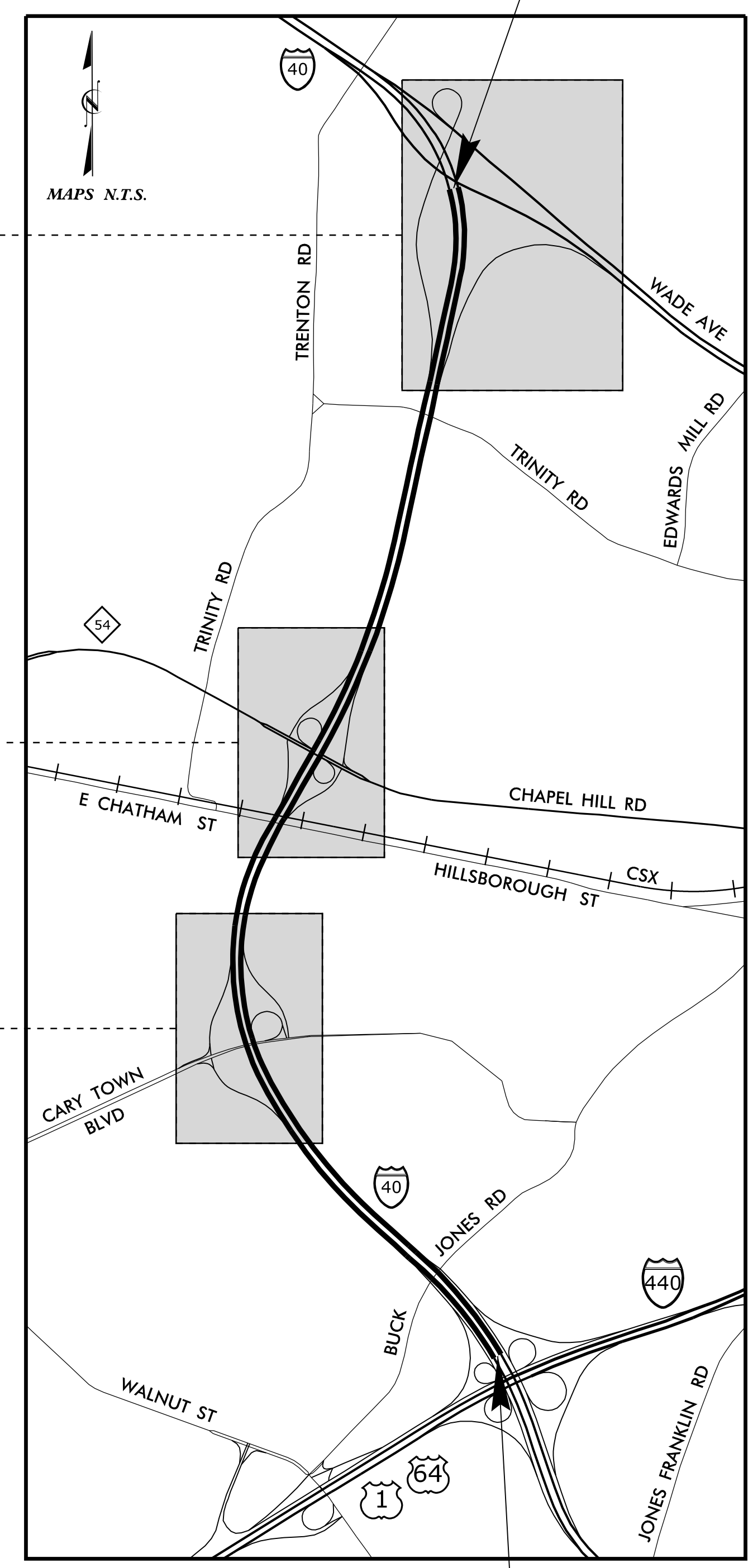
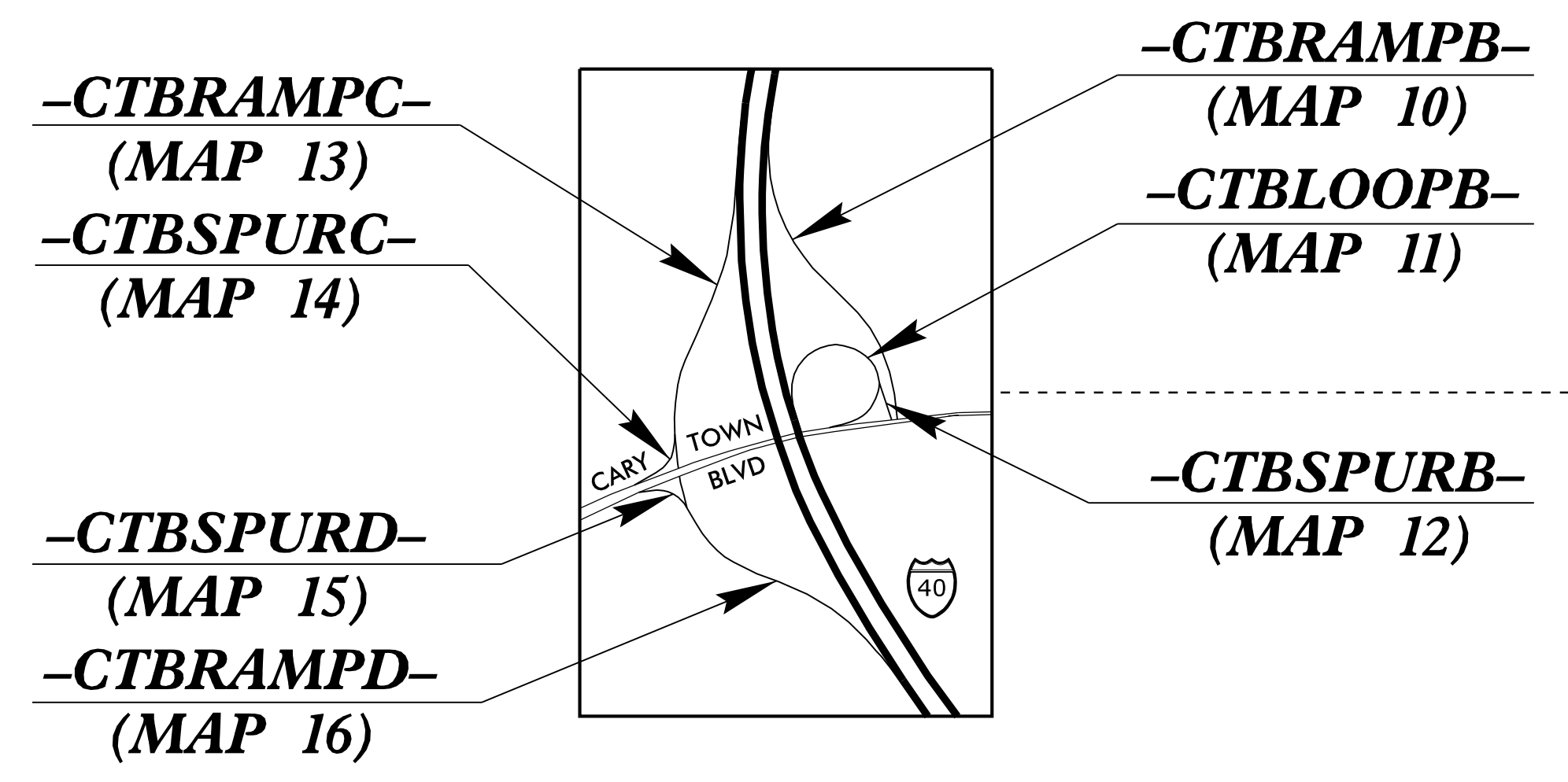
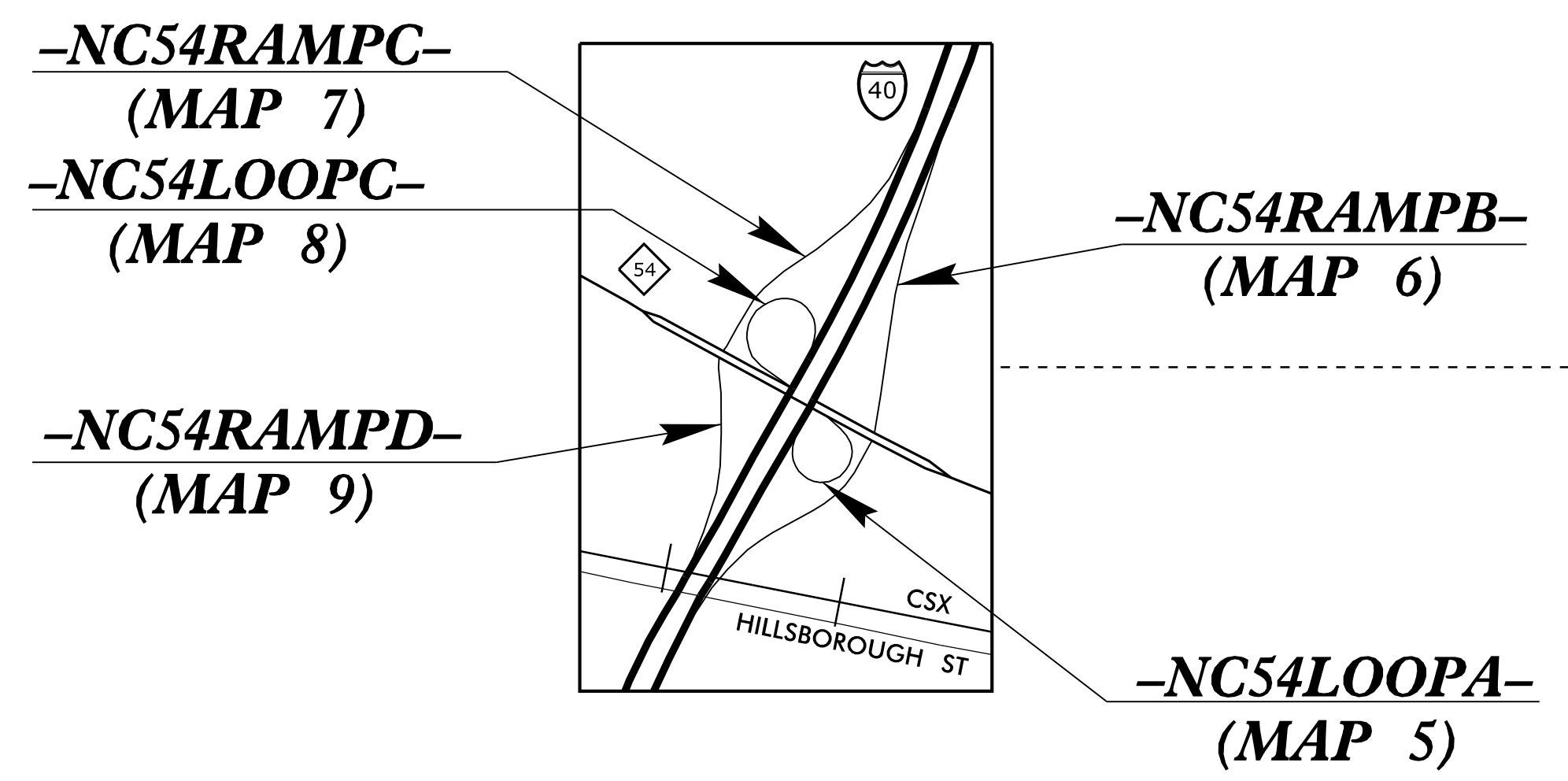
Professional Engineer Seal: TIMOTHY SCOTT HAYES, SEAL 19563, P.E. 3/10/2022



MAP DETAILS



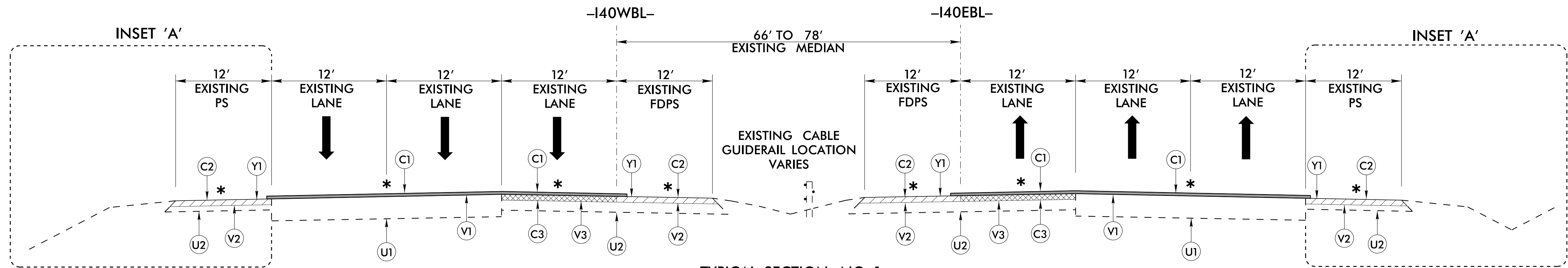
BEGIN TIP PROJECT I-5943
-I40EBL- STA. 123+28 (MAP 1)
-I40WBL- STA. 524+68 (MAP 2)



END TIP PROJECT I-5943
-I40EBL- STA. 319+00 (MAP 1)
-I40WBL- STA. 719+00 (MAP 2)

REVISIONS

8/17/99
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 lb-eds



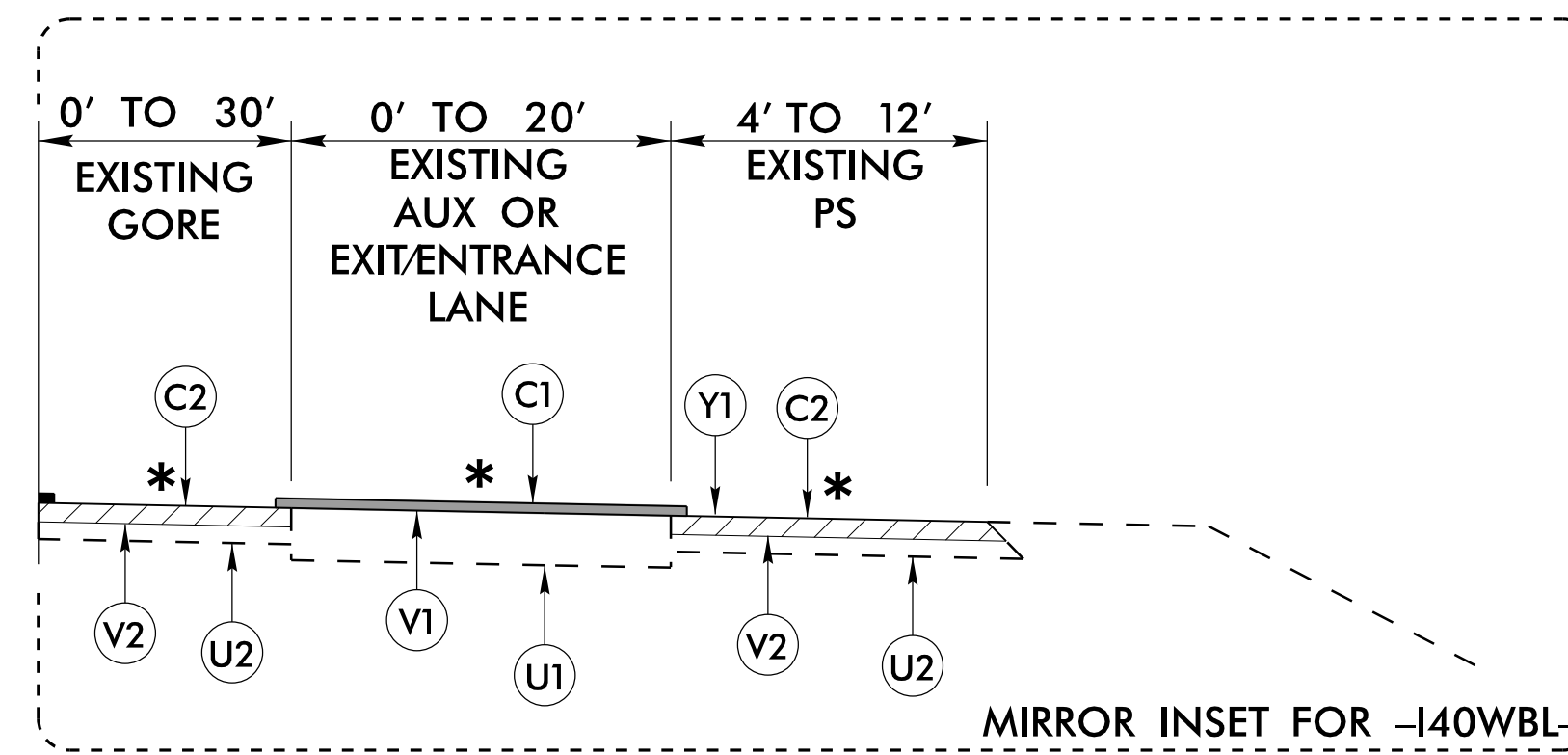
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AS FOLLOWS:

-140EBL- STA. 126+40 (END APPROACH SLAB) TO STA. 319+00 (MAP 1)
 -140WBL- STA. 527+79 (END APPROACH SLAB) TO STA. 719+00 (MAP 2)

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
T1	EARTH MATERIAL
U1	EXISTING 9" JOINTED PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)
U2	EXISTING ASPHALT PAVEMENT
U3	EXISTING PAVEMENT OR BRIDGE APPROACH SLAB
V1	MILLING EXISTING ULTRA-THIN BONDED WEARING COURSE, 5/8" AVERAGE DEPTH
V2	MILLING EXISTING ASPHALT, 2" DEPTH
V3	MILLING EXISTING ASPHALT, 2 5/8" DEPTH
V4	MILLING EXISTING ASPHALT, VAR. DEPTH (2" TO 2 5/8")
Y1	RUMBLE STRIPS

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

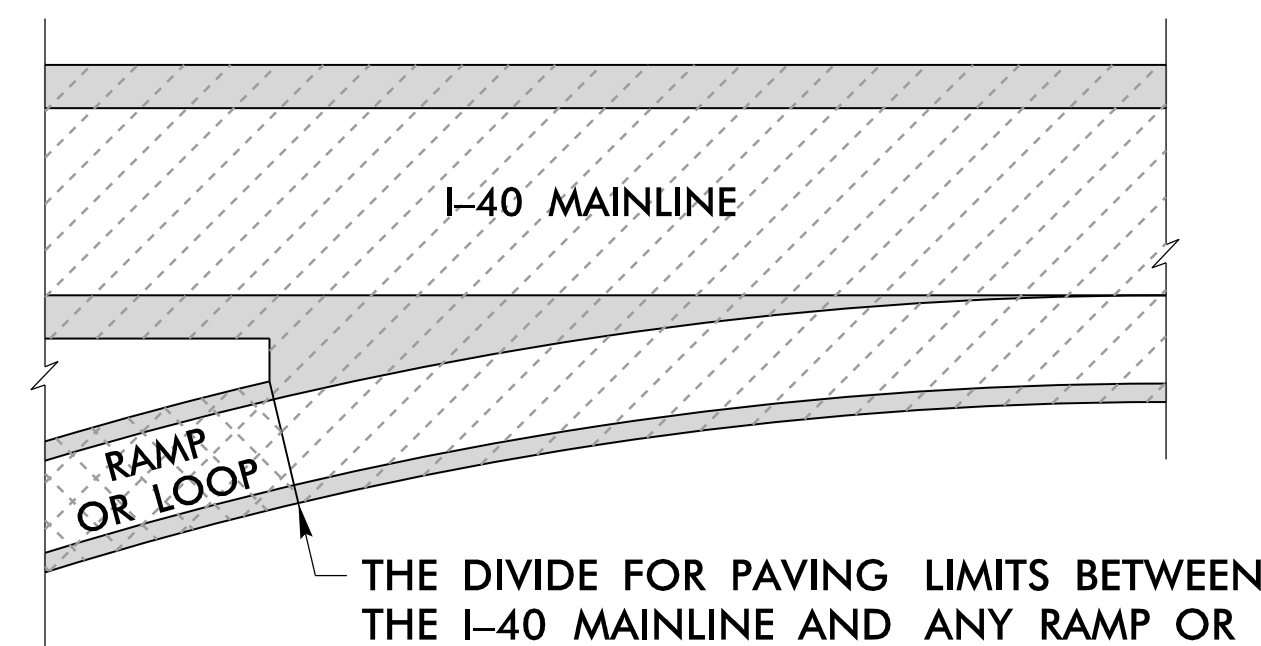


INSET 'A'

USE INSET 'A' AS FOLLOWS:

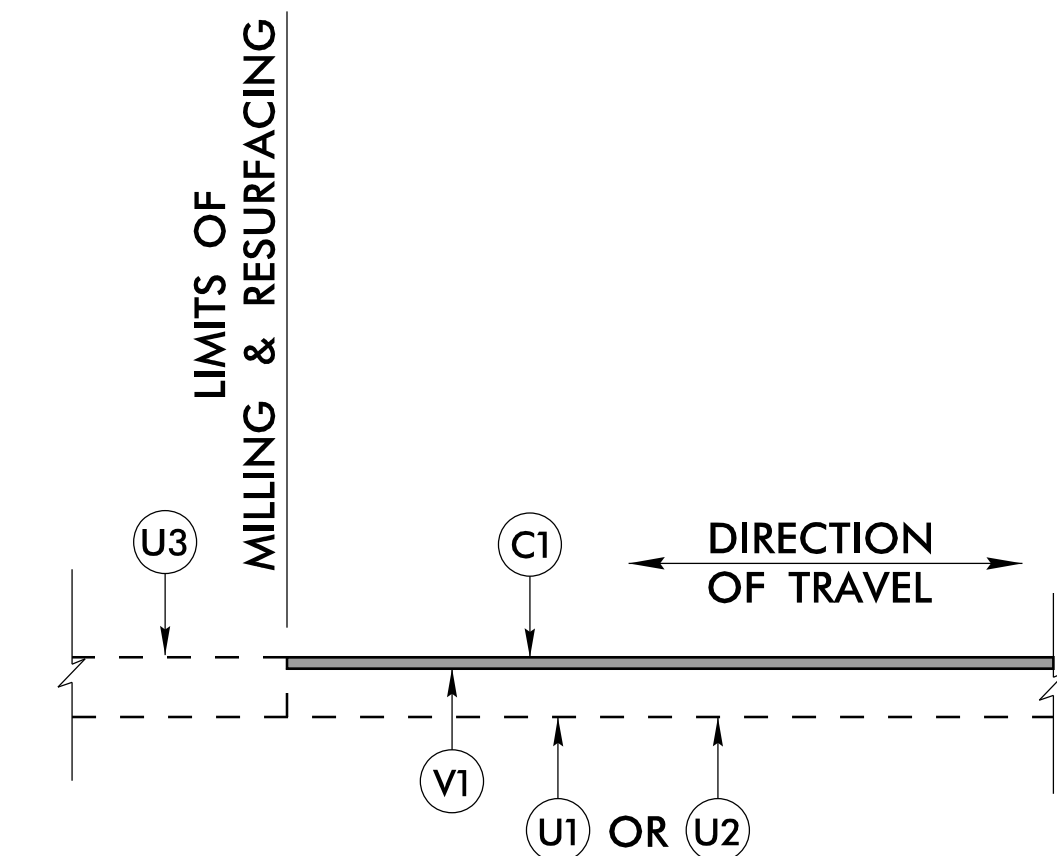
-140EBL- STA. 152+79 TO STA. 201+72
 -140EBL- STA. 210+39 TO STA. 221+67
 -140EBL- STA. 222+04 TO STA. 249+33
 -140EBL- STA. 271+35 TO STA. 303+94
 -140WBL- STA. 553+54 TO STA. 563+12
 -140WBL- STA. 588+48 TO STA. 603+95
 -140WBL- STA. 604+16 TO STA. 617+71
 -140WBL- STA. 624+50 TO STA. 647+03
 -140WBL- STA. 657+48 TO STA. 704+06

I-40 MAINLINE MAP QUANTITIES [Symbol]
 RAMP/LOOP MAP QUANTITIES [Symbol]



TYPICAL DIVIDE FOR PAVING LIMITS DETAIL

USE AT ALL I-40 MAINLINE RAMP/LOOP CONNECTIONS



ULTRA-THIN BONDED WEARING COURSE TIE-IN DETAIL
 USE AT ALL I-40 MAINLINE TIE-INS

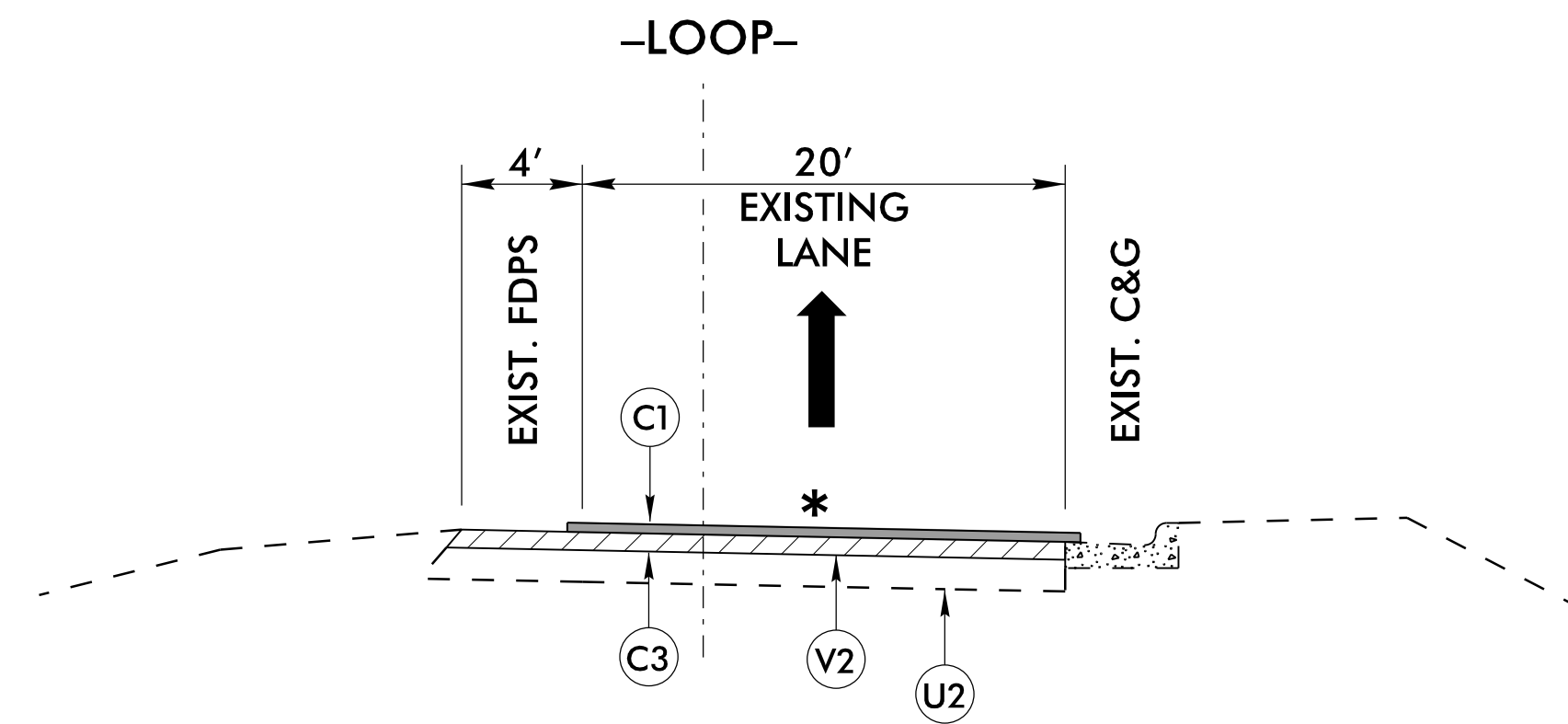
NOTES

1. TYPICAL SECTION STATIONS (STA.) SHOWN ARE APPROXIMATE AND MAY ADJUST AS DETERMINED BY THE ENGINEER.
2. MILLED I-40 PAVED SHOULDERS AND INSIDE LANES SHALL BE RESURFACED WITH ASPHALT CONCRETE SURFACE COURSE BY THE END OF EACH WORK DAY.
3. ULTRA-THIN BONDED WEARING COURSE SHALL BE EXTENDED 6" OUTSIDE OF TRAVEL LANES.
4. PAVED SHOULDER WIDTHS SHOWN ARE WIDER AT GUARDRAIL, CONC. BARRIER AND BRIDGE LOCATIONS. MILL AND RESURFACE THE ENTIRE PAVED SHOULDER WIDTH AT THESE LOCATIONS.
5. NEW GUARDRAIL UNIFORM OFFSETS FROM TRAVEL LANES SHALL MATCH EXISTING, EXCEPT AS DETERMINED BY THE ENGINEER.

* MATCH EXIST. CROSS SLOPES

6/2/99

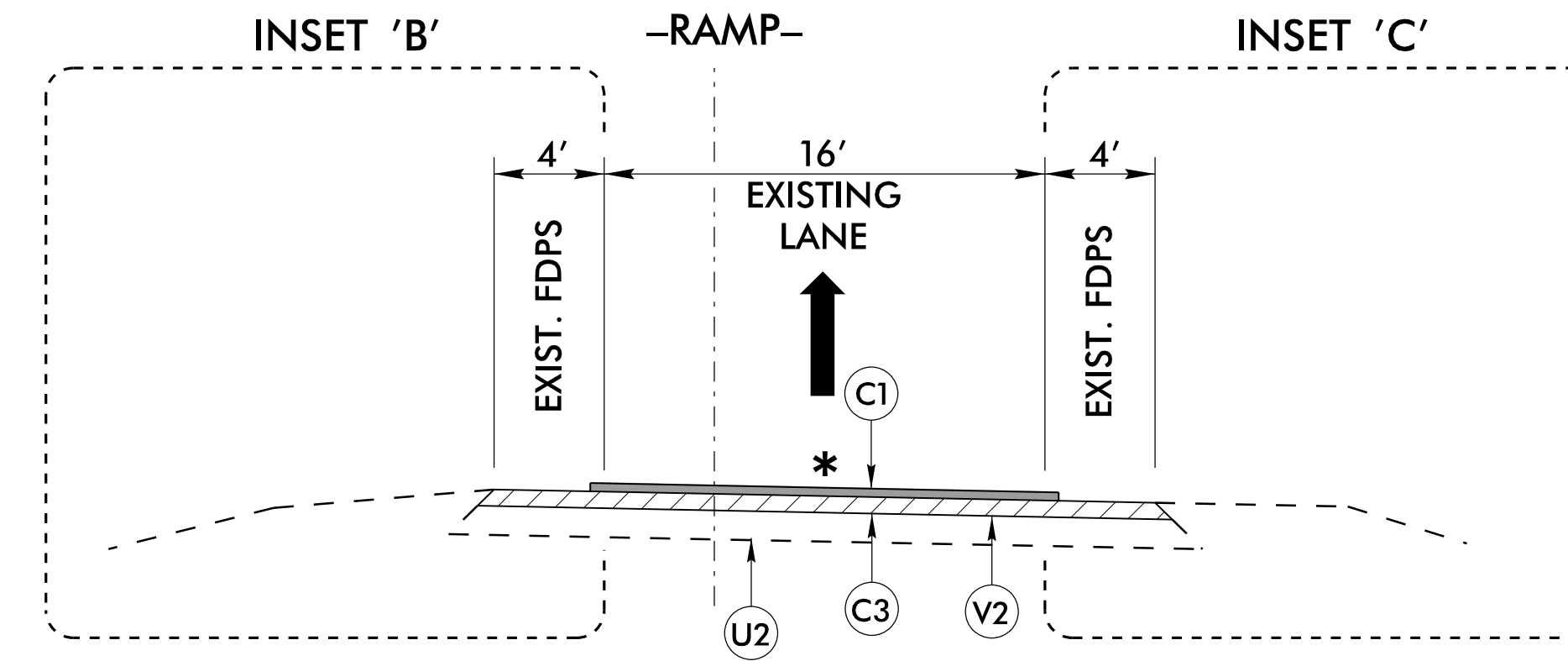
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TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:

-WADELOOPB- STA. 11+60 TO STA. 22+66 (BEGIN APPROACH SLAB) (MAP 3)

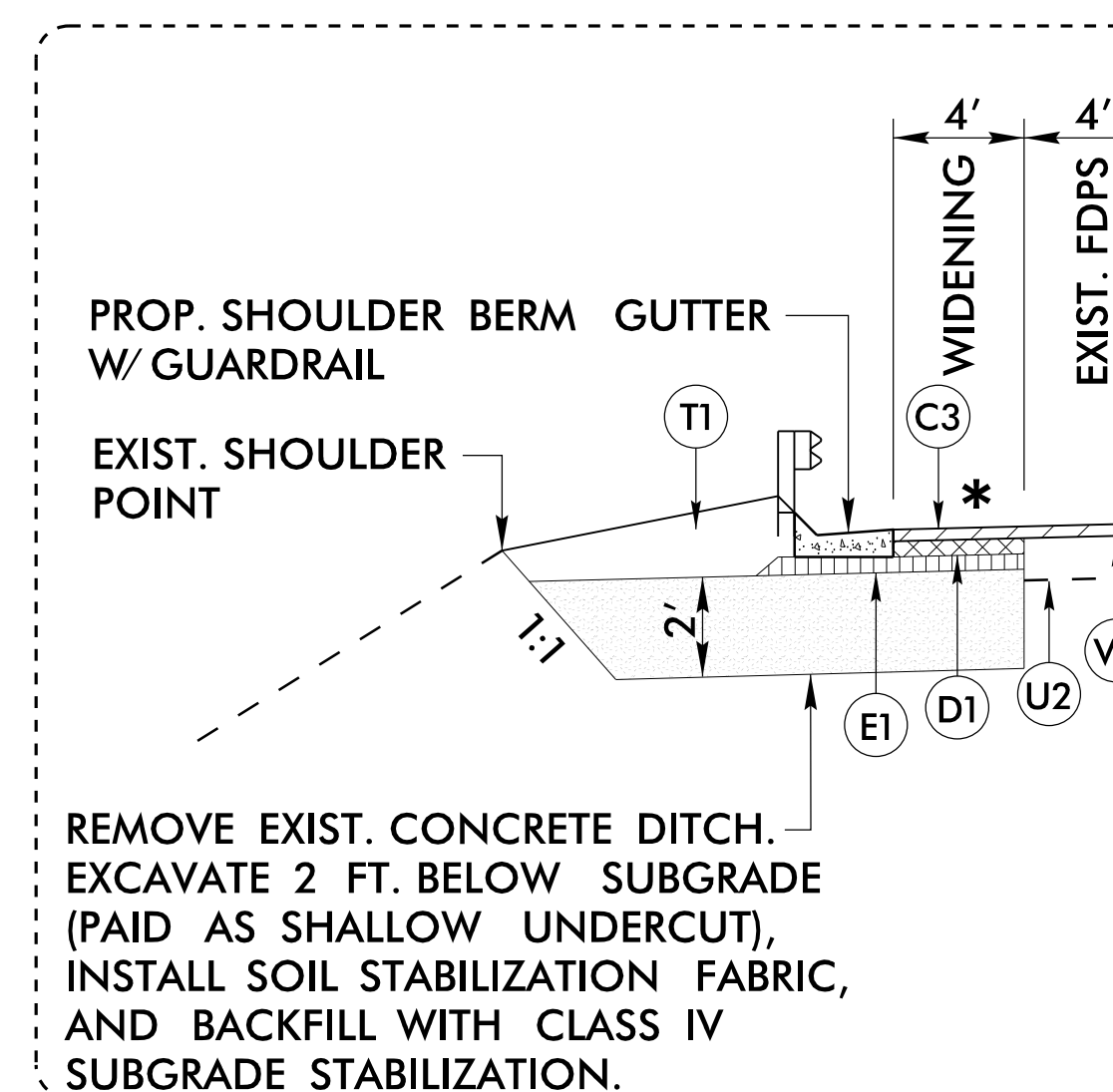


TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3 AS FOLLOWS:

-WADERAMPB- STA. 31+30 (END APPROACH SLAB) TO STA. 59+13 (MAP 3)
 -WADERAMPD- STA. 10+00 TO STA. 41+28 (MAP 4)

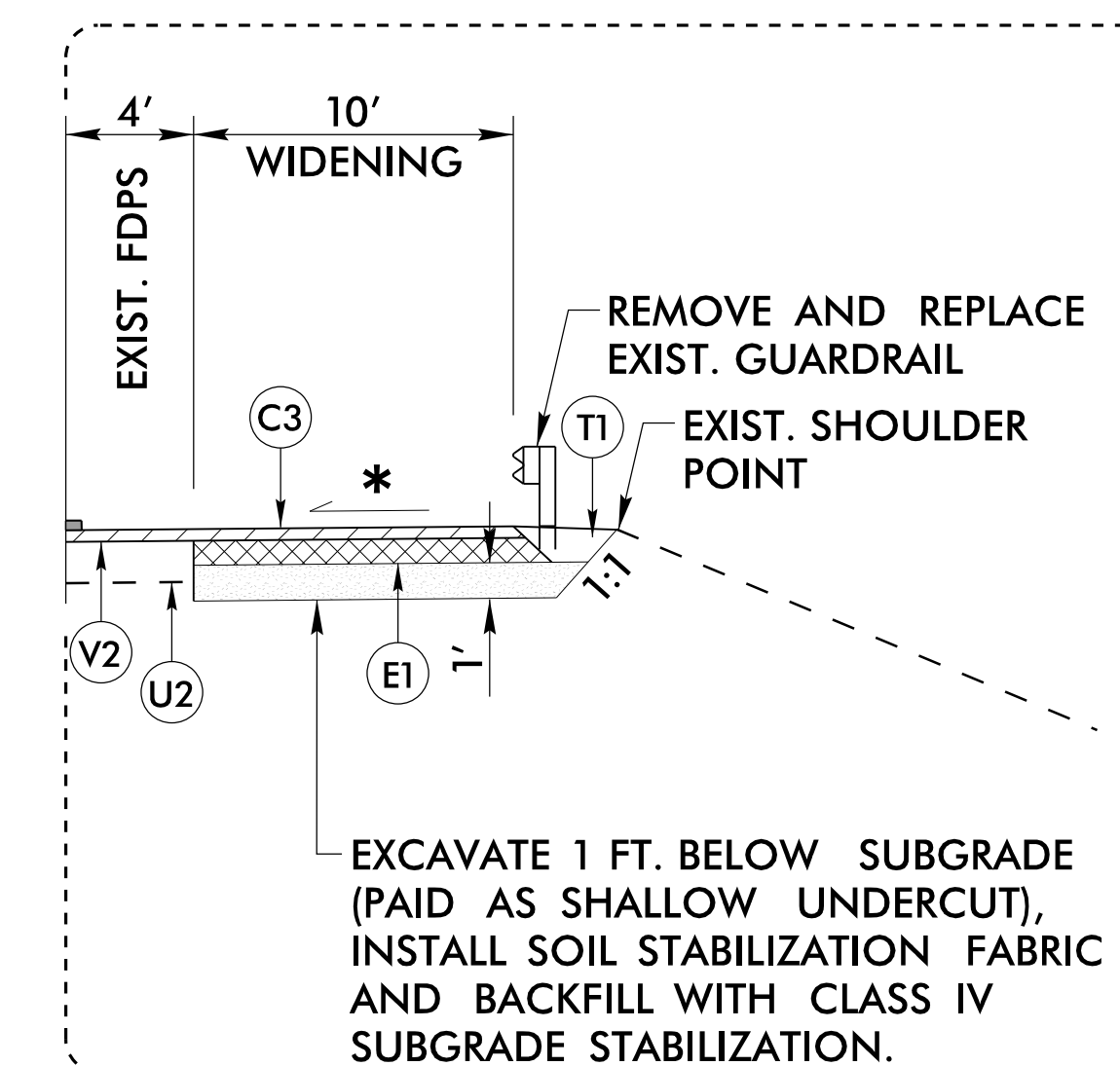
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
T1	EARTH MATERIAL
U1	EXISTING 9" JOINTED PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)
U2	EXISTING ASPHALT PAVEMENT
U3	EXISTING PAVEMENT OR BRIDGE APPROACH SLAB
V1	MILLING EXISTING ULTRA-THIN BONDED WEARING COURSE, 5/8" AVERAGE DEPTH
V2	MILLING EXISTING ASPHALT, 2" DEPTH
V3	MILLING EXISTING ASPHALT, 2 5/8" DEPTH
V4	MILLING EXISTING ASPHALT, VAR. DEPTH (2" TO 2 5/8")
Y1	RUMBLE STRIPS



INSET 'B'

USE INSET 'B' AS FOLLOWS:

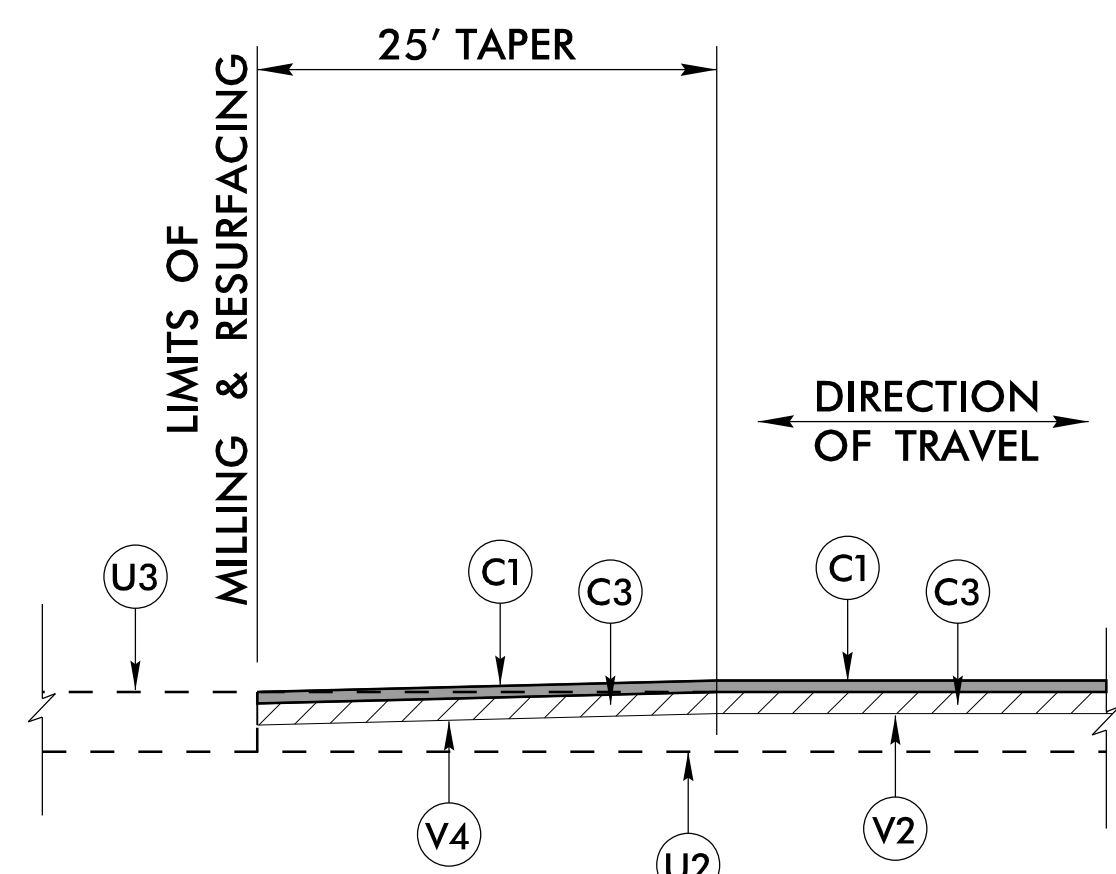
-WADERAMPB- STA. 32+84 TO STA. 47+68 (LT)



INSET 'C'

USE INSET 'C' AS FOLLOWS:

-WADERAMPB- STA. 42+85 TO STA. 43+85 (RT)



ULTRA-THIN BONDED WEARING COURSE TIE-IN DETAIL
 USE AT ALL WADE AVENUE RAMP AND LOOP TIE-INS

NOTES

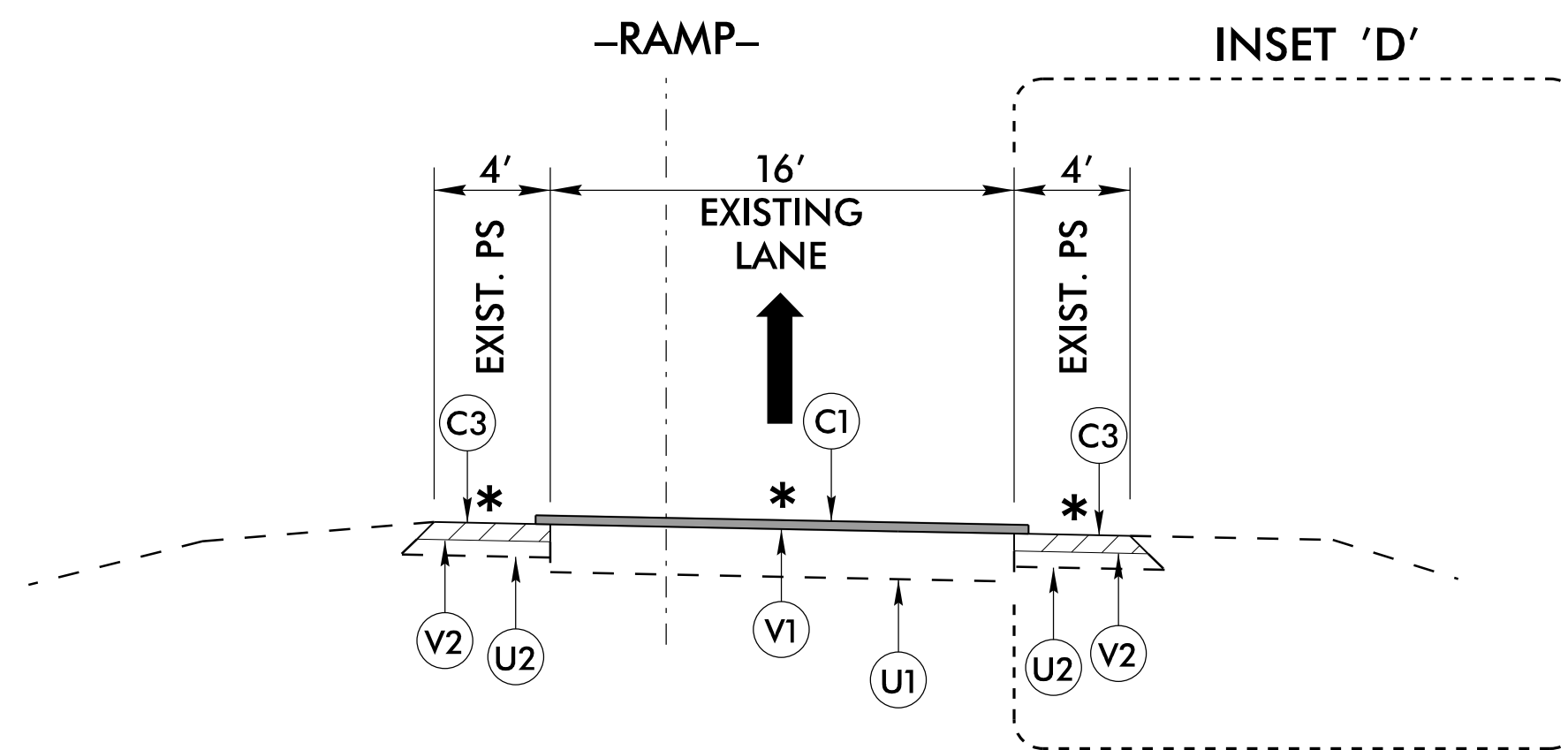
1. TYPICAL SECTION STATIONS (STA.) SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.
2. MILLED WADE AVENUE RAMP AND LOOP TRAVEL LANES AND SHOULDERS SHALL BE RESURFACED WITH ASPHALT CONCRETE SURFACE COURSE BY THE END OF EACH WORK DAY.
3. ULTRA-THIN BONDED WEARING COURSE SHALL BE EXTENDED 6" OUTSIDE OF TRAVEL LANES.
4. PAVED SHOULDER WIDTHS SHOWN ARE WIDER AT GUARDRAIL, CONC. BARRIER AND BRIDGE LOCATIONS. MILL AND RESURFACE THE ENTIRE PAVED SHOULDER WIDTH AT THESE LOCATIONS.
5. NEW GUARDRAIL UNIFORM OFFSETS FROM TRAVEL LANES SHALL MATCH EXISTING, EXCEPT AS DETERMINED BY THE ENGINEER.

* MATCH EXIST. CROSS SLOPES

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05-FEB-2002 Mill
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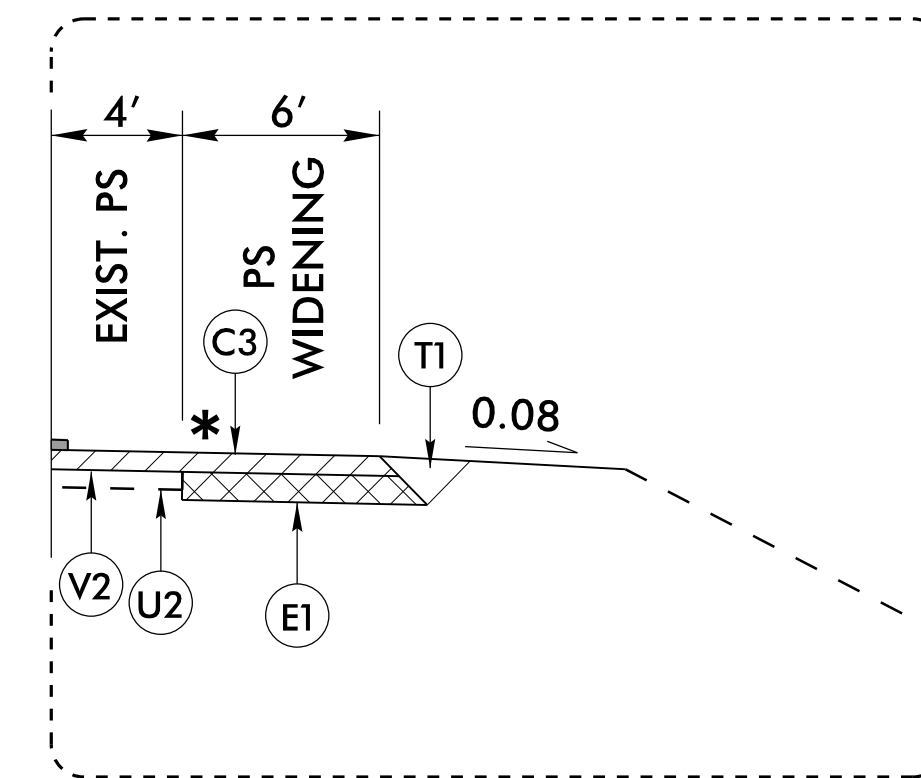
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4 AS FOLLOWS:

- NC54RAMPB- STA. 11+05 TO STA. 21+12 (MAP 6)
- NC54RAMP C- STA. 10+00 TO STA. 12+35 (MAP 7)
- NC54RAMP D- STA. 10+92 TO STA. 18+56 (MAP 9)

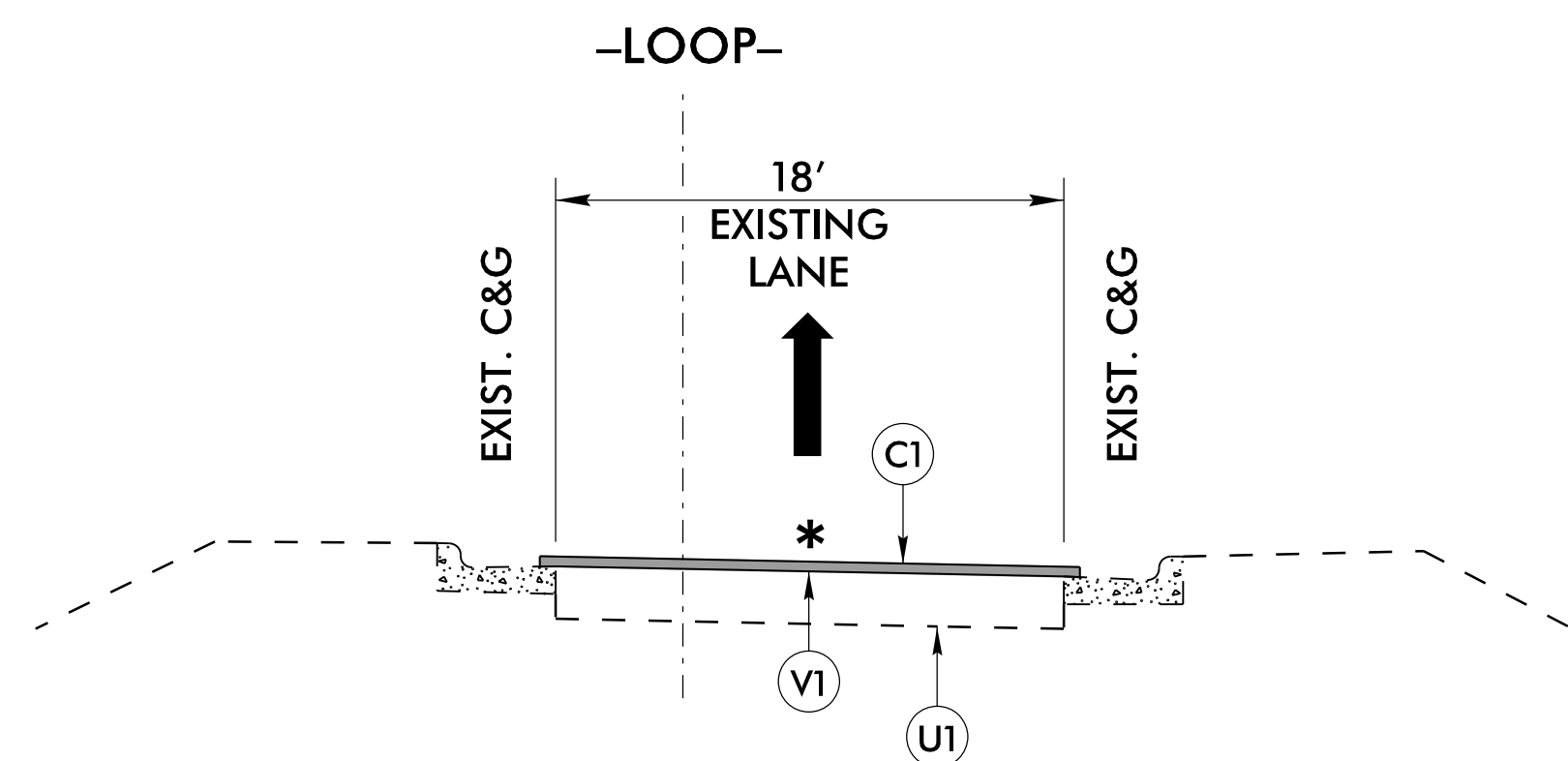


INSET 'D'

USE INSET 'D' AS FOLLOWS:

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- NC54RAMPD- STA. 11+25 TO STA. 14+50 (RT)

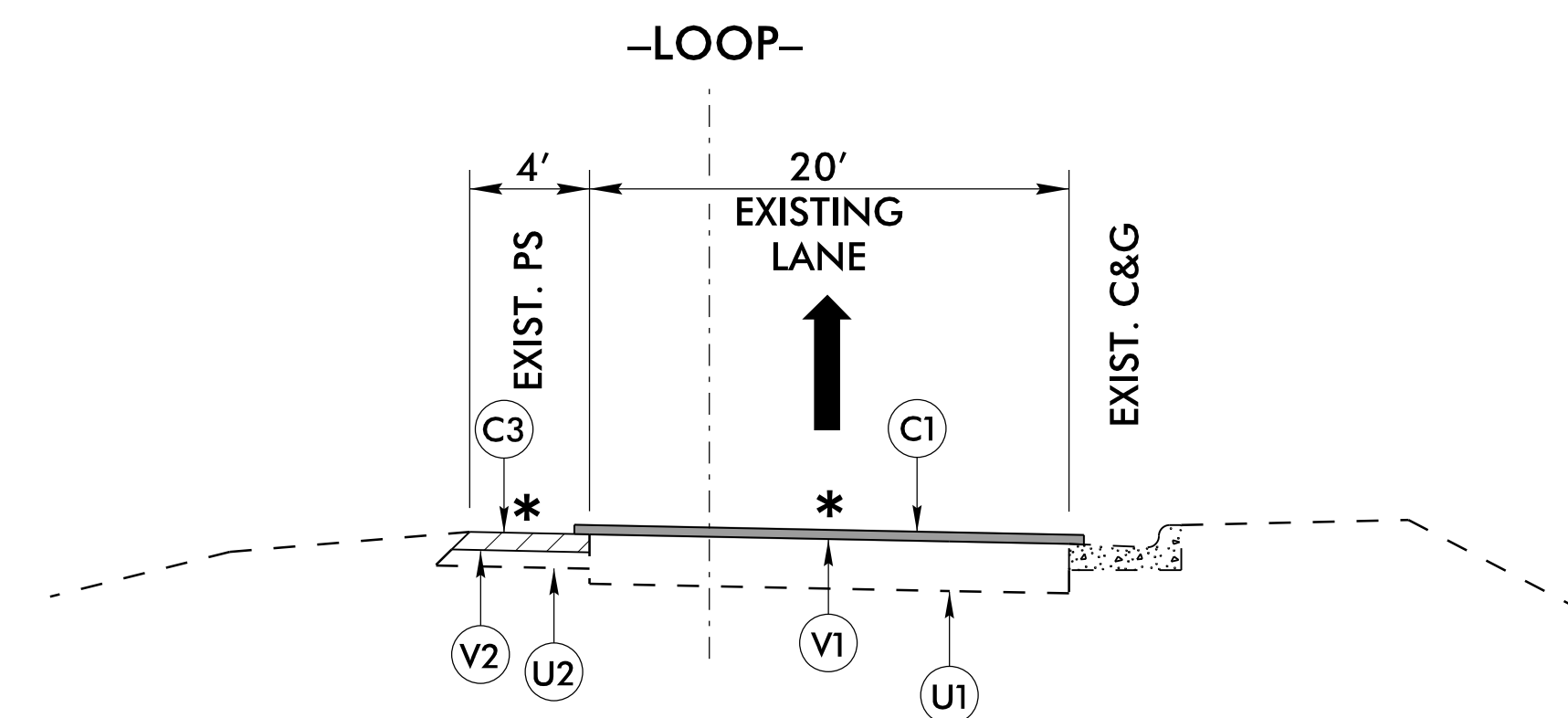
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
T1	EARTH MATERIAL
U1	EXISTING 9" JOINTED PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)
U2	EXISTING ASPHALT PAVEMENT
U3	EXISTING PAVEMENT OR BRIDGE APPROACH SLAB
V1	MILLING EXISTING ULTRA-THIN BONDED WEARING COURSE, 5/8" AVERAGE DEPTH
V2	MILLING EXISTING ASPHALT, 2" DEPTH
V3	MILLING EXISTING ASPHALT, 2 5/8" DEPTH
V4	MILLING EXISTING ASPHALT, VAR. DEPTH (2" TO 2 5/8")
Y1	RUMBLE STRIPS



TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5 AS FOLLOWS:

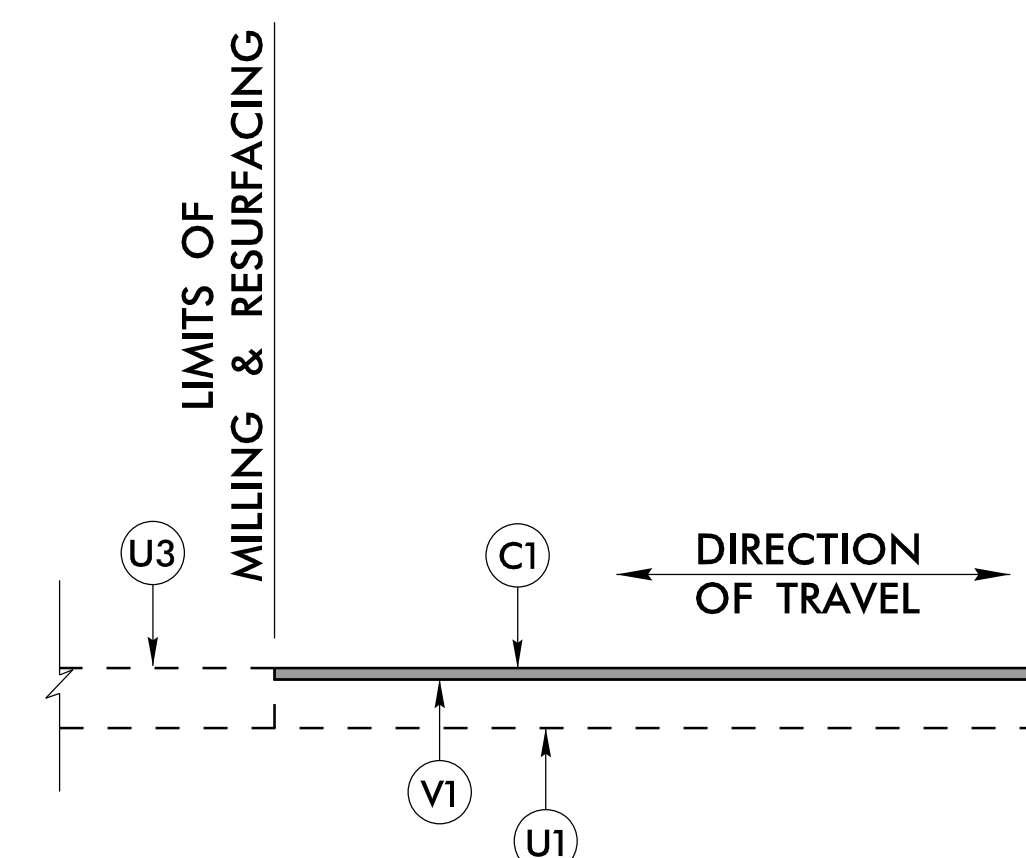
- NC54LOOPA- STA. 12+04 TO STA. 13+95 (MAP 5)
- NC54LOOPC- STA. 11+82 TO STA. 14+05 (MAP 8)



TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6 AS FOLLOWS:

- NC54LOOPA- STA. 13+95 TO STA. 17+09 (MAP 5)
- NC54LOOPC- STA. 14+05 TO STA. 18+10 (MAP 8)



ULTRA-THIN BONDED WEARING COURSE TIE-IN DETAIL
USE AT ALL NC 54 RAMP AND LOOP TIE-INS

NOTES

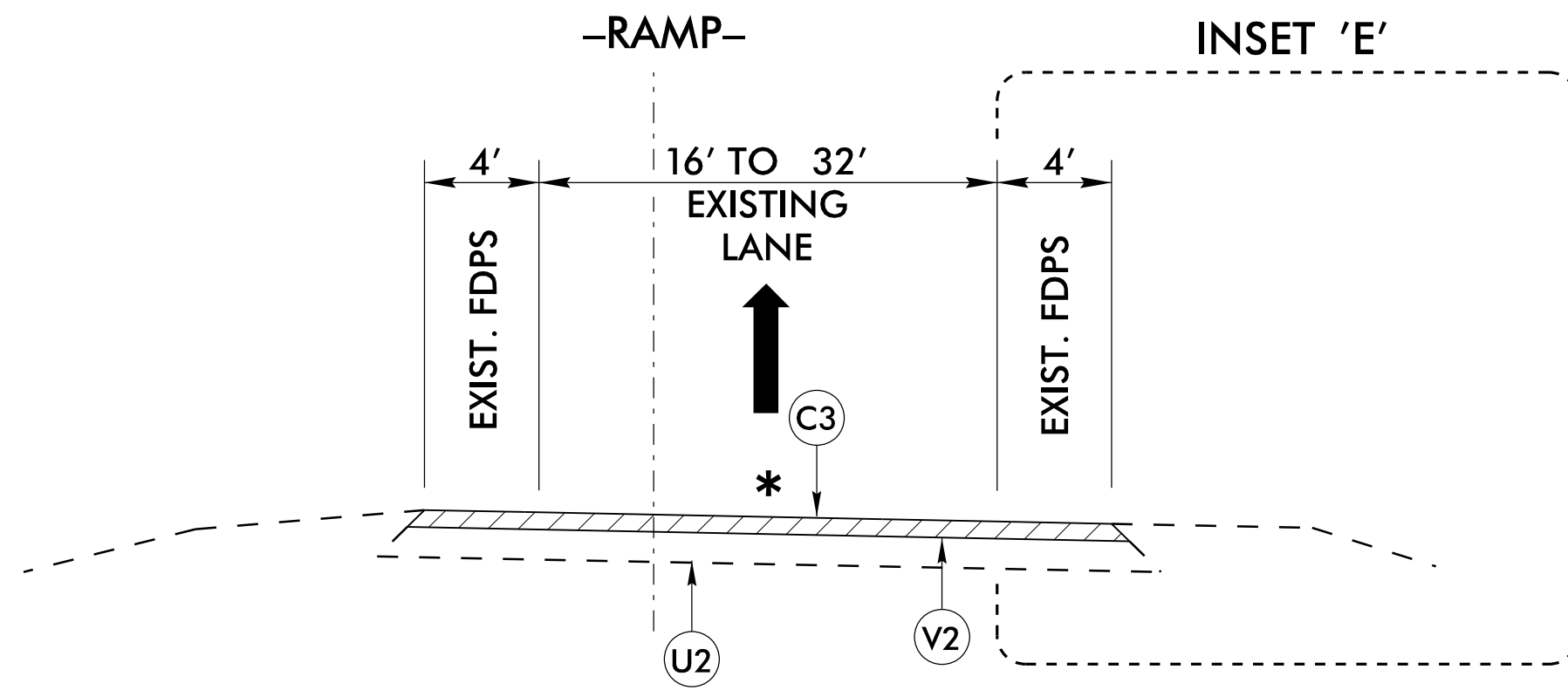
1. TYPICAL SECTION STATIONS (STA.) SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.
2. MILLED NC 54 RAMP AND LOOP SHOULDERS SHALL BE RESURFACED WITH ASPHALT CONCRETE SURFACE COURSE BY THE END OF EACH WORK DAY.
3. ULTRA-THIN BONDED WEARING COURSE SHALL BE EXTENDED 6" OUTSIDE OF TRAVEL LANES.
4. PAVED SHOULDER WIDTHS SHOWN ARE WIDER AT GUARDRAIL, CONC. BARRIER AND BRIDGE LOCATIONS. MILL AND RESURFACE THE ENTIRE PAVED SHOULDER WIDTH AT THESE LOCATIONS.
5. NEW GUARDRAIL UNIFORM OFFSETS FROM TRAVEL LANES SHALL MATCH EXISTING, EXCEPT AS DETERMINED BY THE ENGINEER.

* MATCH EXIST. CROSS SLOPES

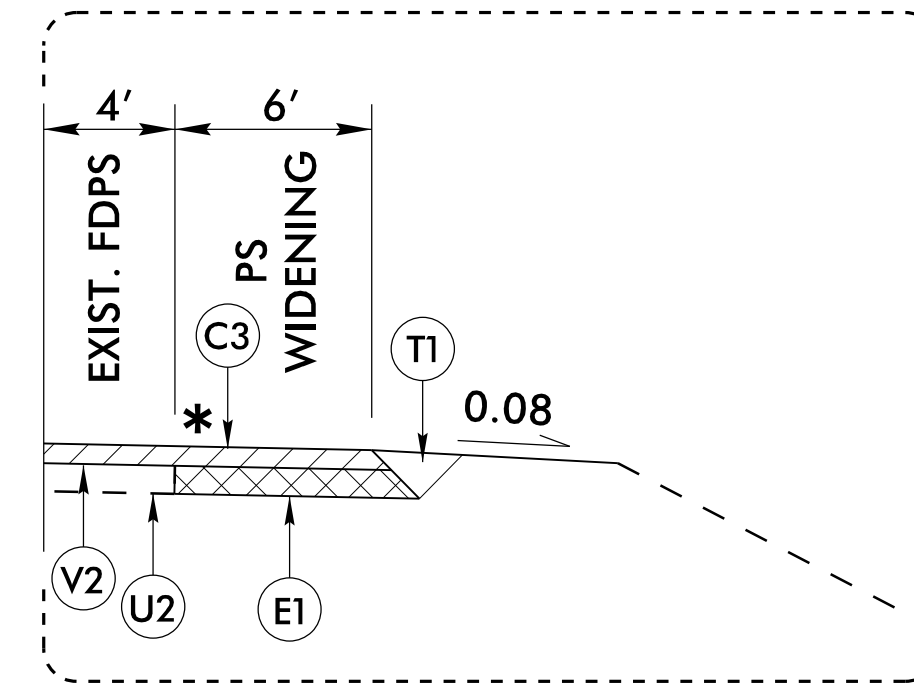
6/2/99

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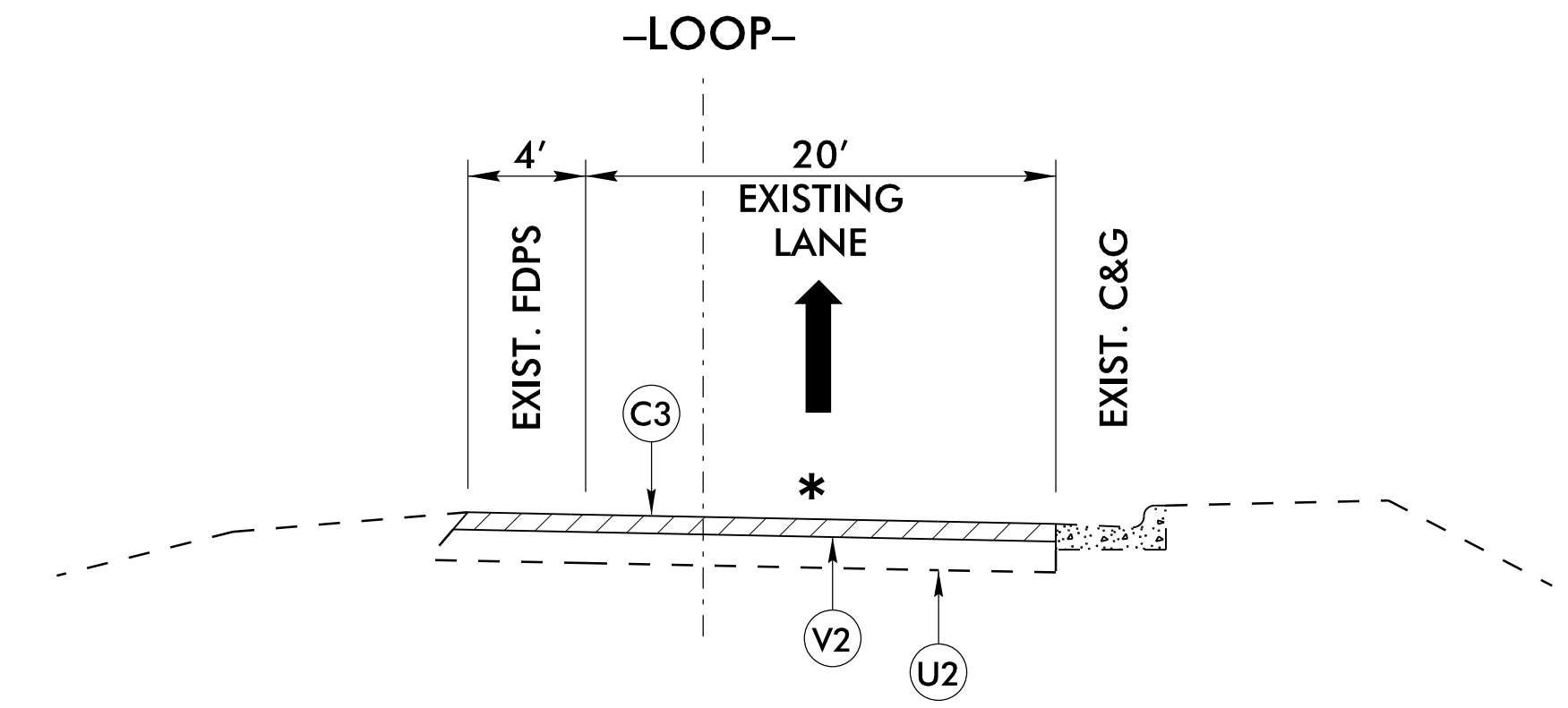
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 7
 USE TYPICAL SECTION NO. 7 AS FOLLOWS:
 -CTBRAMPB- STA. 11+20 TO STA. 24+50 (MAP 10)
 -CTBRAMPC- STA. 10+00 TO STA. 22+45 (MAP 13)
 -CTBRAMPD- STA. 10+60 TO STA. 23+45 (MAP 16)

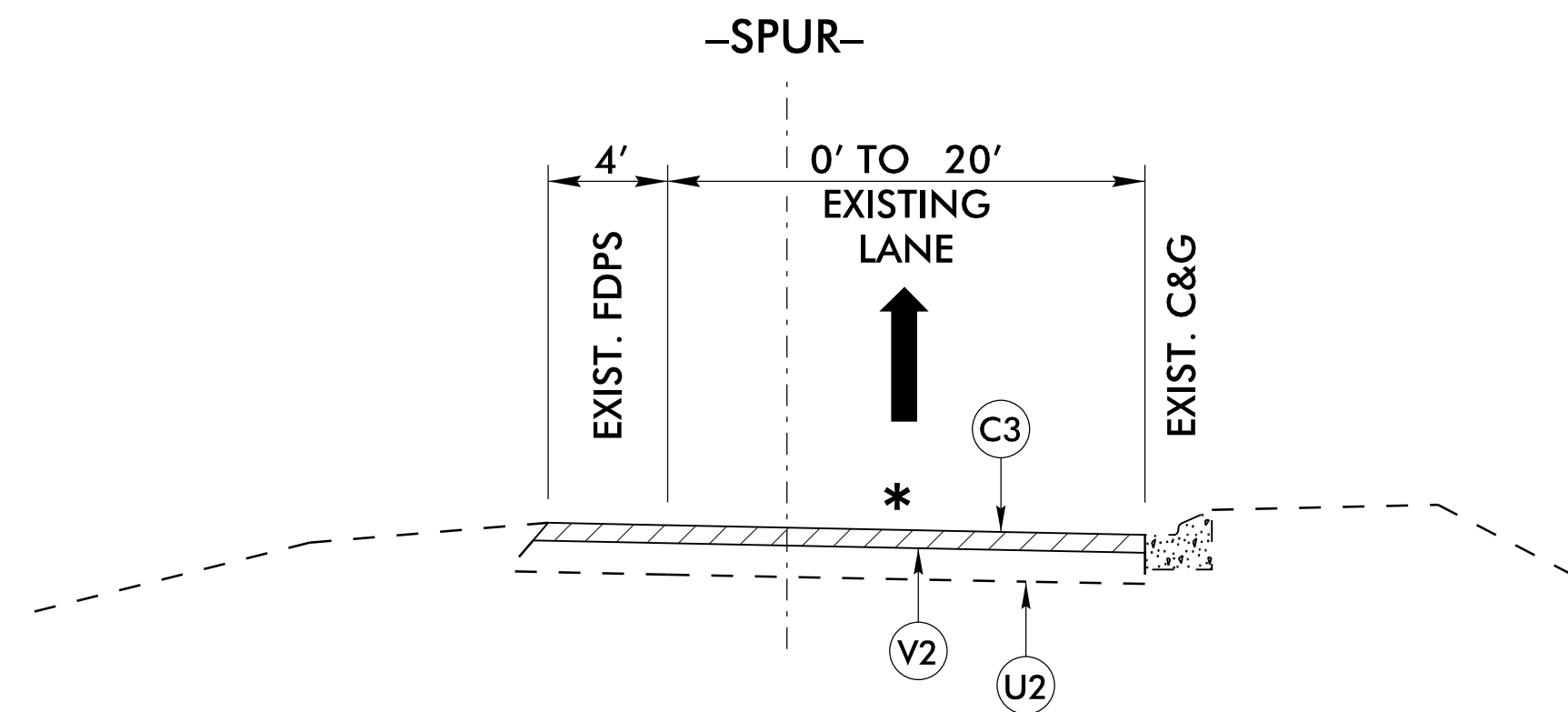


INSET 'E'
 USE INSET 'E' AS FOLLOWS:
 -CTBRAMPB- STA. 16+00 TO STA. 19+85 (RT)

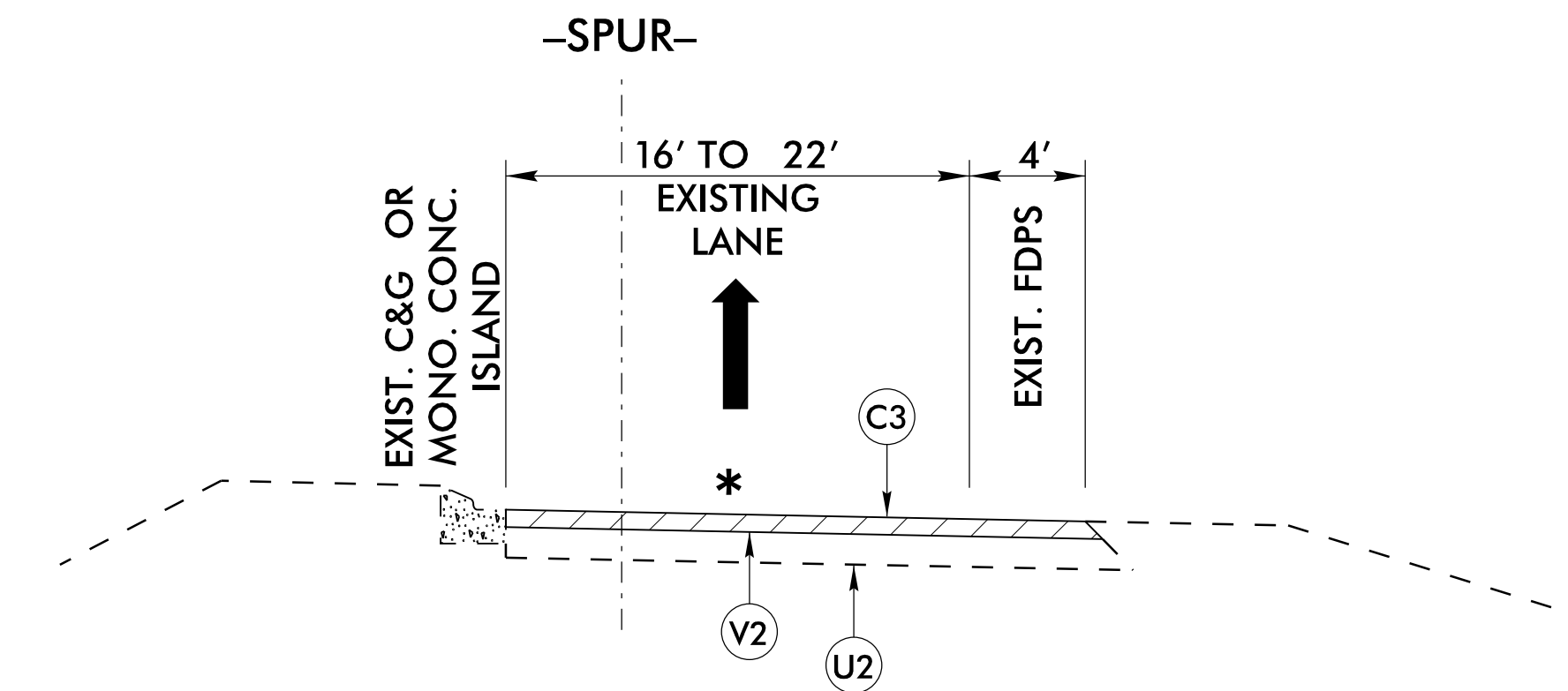


TYPICAL SECTION NO. 8
 USE TYPICAL SECTION NO. 8 AS FOLLOWS:
 -CTBLOOPB- STA. 10+00 TO STA. 18+60 (MAP 11)

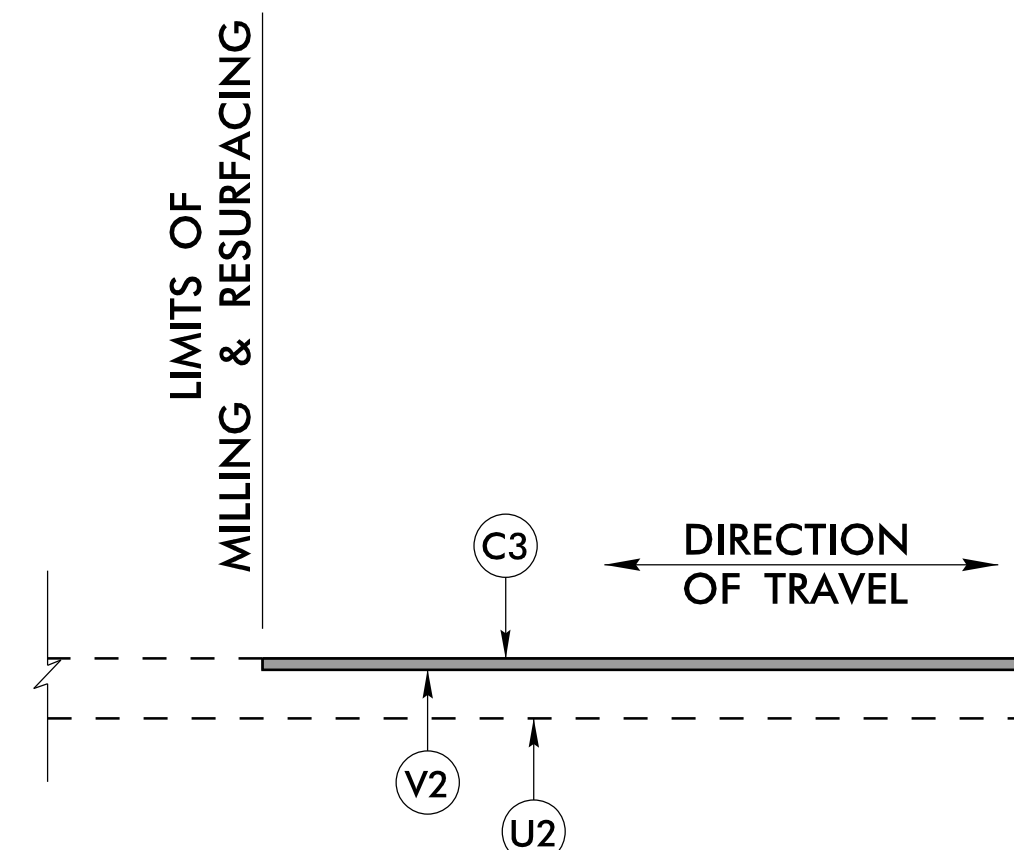
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
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T1	EARTH MATERIAL
U1	EXISTING 9" JOINTED PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)
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U3	EXISTING PAVEMENT OR BRIDGE APPROACH SLAB
V1	MILLING EXISTING ULTRA-THIN BONDED WEARING COURSE, 5/8" AVERAGE DEPTH
V2	MILLING EXISTING ASPHALT, 2" DEPTH
V3	MILLING EXISTING ASPHALT, 2 5/8" DEPTH
V4	MILLING EXISTING ASPHALT, VAR. DEPTH (2" TO 2 5/8")
Y1	RUMBLE STRIPS



TYPICAL SECTION NO. 9
 USE TYPICAL SECTION NO. 9 AS FOLLOWS:
 -CTBSPURB- STA. 10+00 TO STA. 11+78 (MAP 12)



TYPICAL SECTION NO. 10
 USE TYPICAL SECTION NO. 10 AS FOLLOWS:
 -CTBSPURC- STA. 10+00 TO STA. 11+35 (MAP 14)
 -CTBSPURD- STA. 10+92 TO STA. 12+51 (MAP 15)



SURFACE COURSE TIE-IN DETAIL
 USE AT ALL CARY TOWN BLVD. RAMP, LOOP AND SPUR TIE-INS

NOTES

1. TYPICAL SECTION STATIONS (STA.) SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.
2. MILLED CARY TOWN BLVD. RAMP, LOOP AND SPUR TRAVEL LANES AND SHOULDERS SHALL BE RESURFACED WITH ASPHALT CONCRETE SURFACE COURSE BY THE END OF EACH WORK DAY.
3. ULTRA-THIN BONDED WEARING COURSE SHALL BE EXTENDED 6" OUTSIDE OF TRAVEL LANES.
4. PAVED SHOULDER WIDTHS SHOWN ARE WIDER AT GUARDRAIL, CONC. BARRIER AND BRIDGE LOCATIONS. MILL AND RESURFACE THE ENTIRE PAVED SHOULDER WIDTH AT THESE LOCATIONS.
5. NEW GUARDRAIL UNIFORM OFFSETS FROM TRAVEL LANES SHALL MATCH EXISTING, EXCEPT AS DETERMINED BY THE ENGINEER.

* MATCH EXIST. CROSS SLOPES

6/2/99

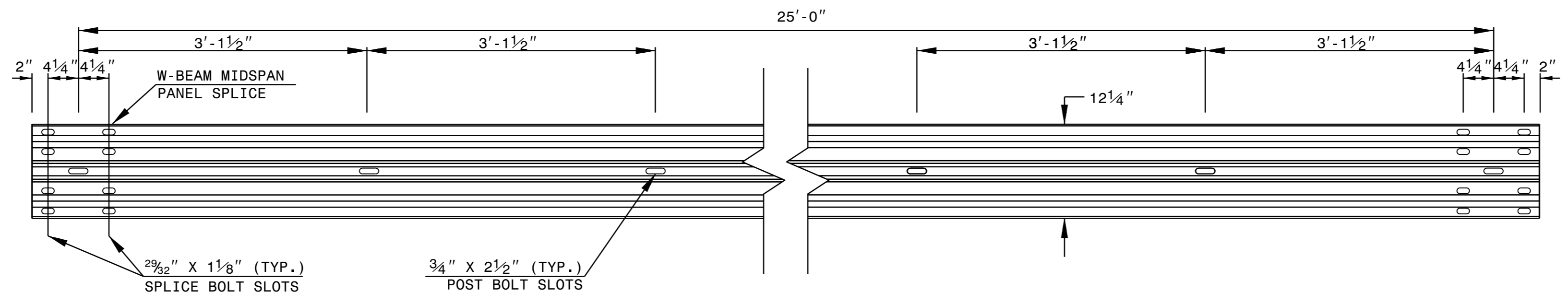
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NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

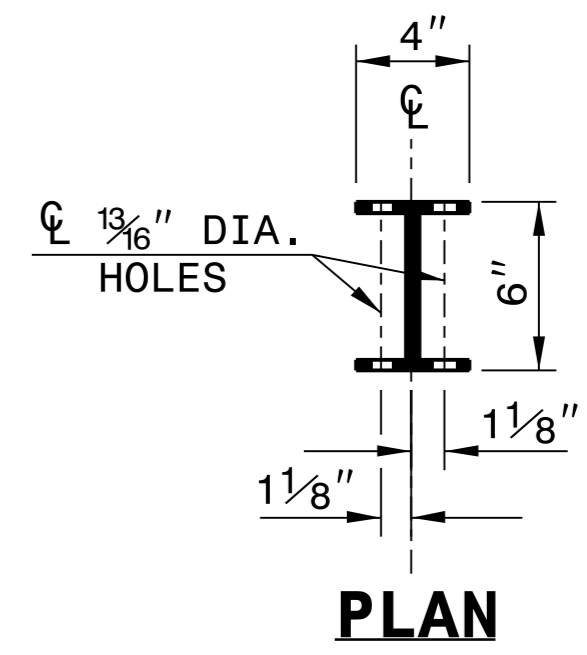
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

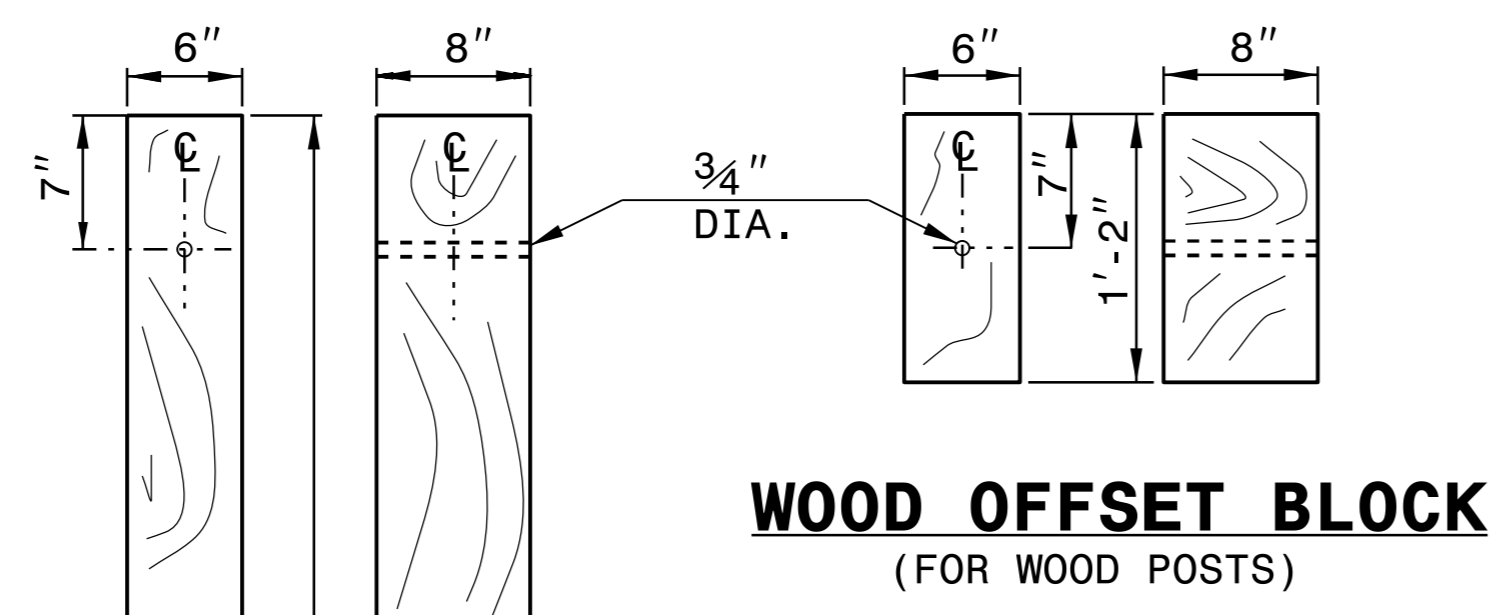
SHEET 6 OF 8
862D02



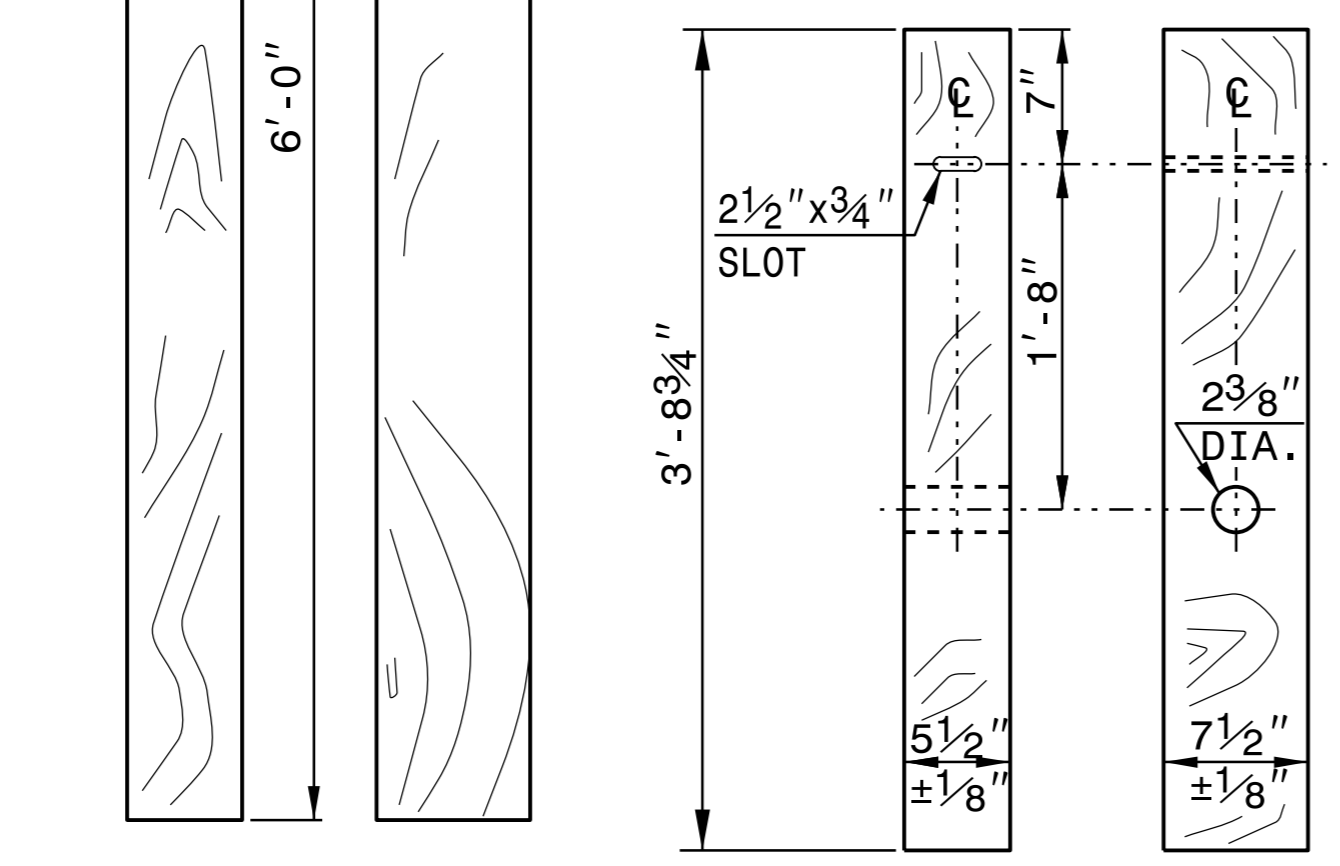
STANDARD W-BEAM GUARDRAIL



PLAN

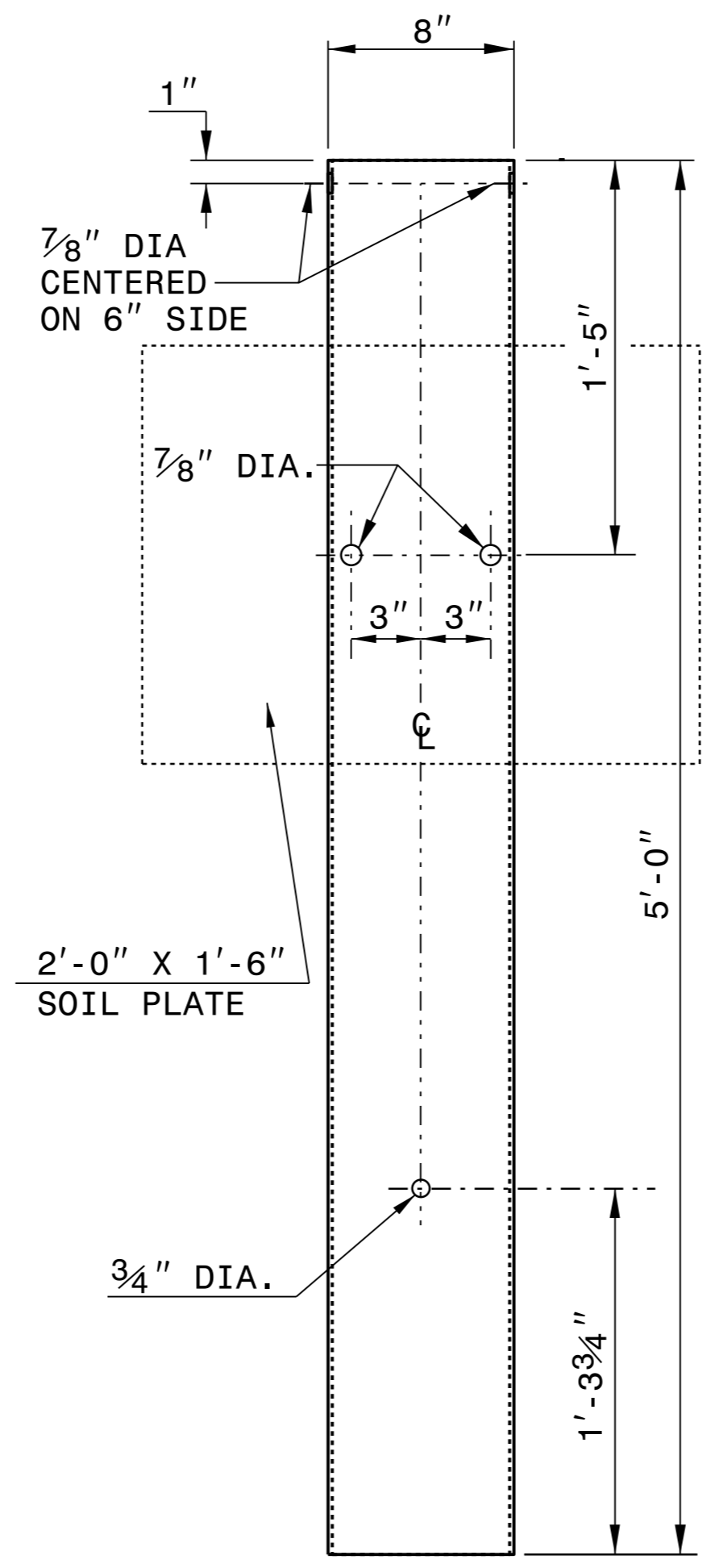


**WOOD OFFSET BLOCK
(FOR WOOD POSTS)**

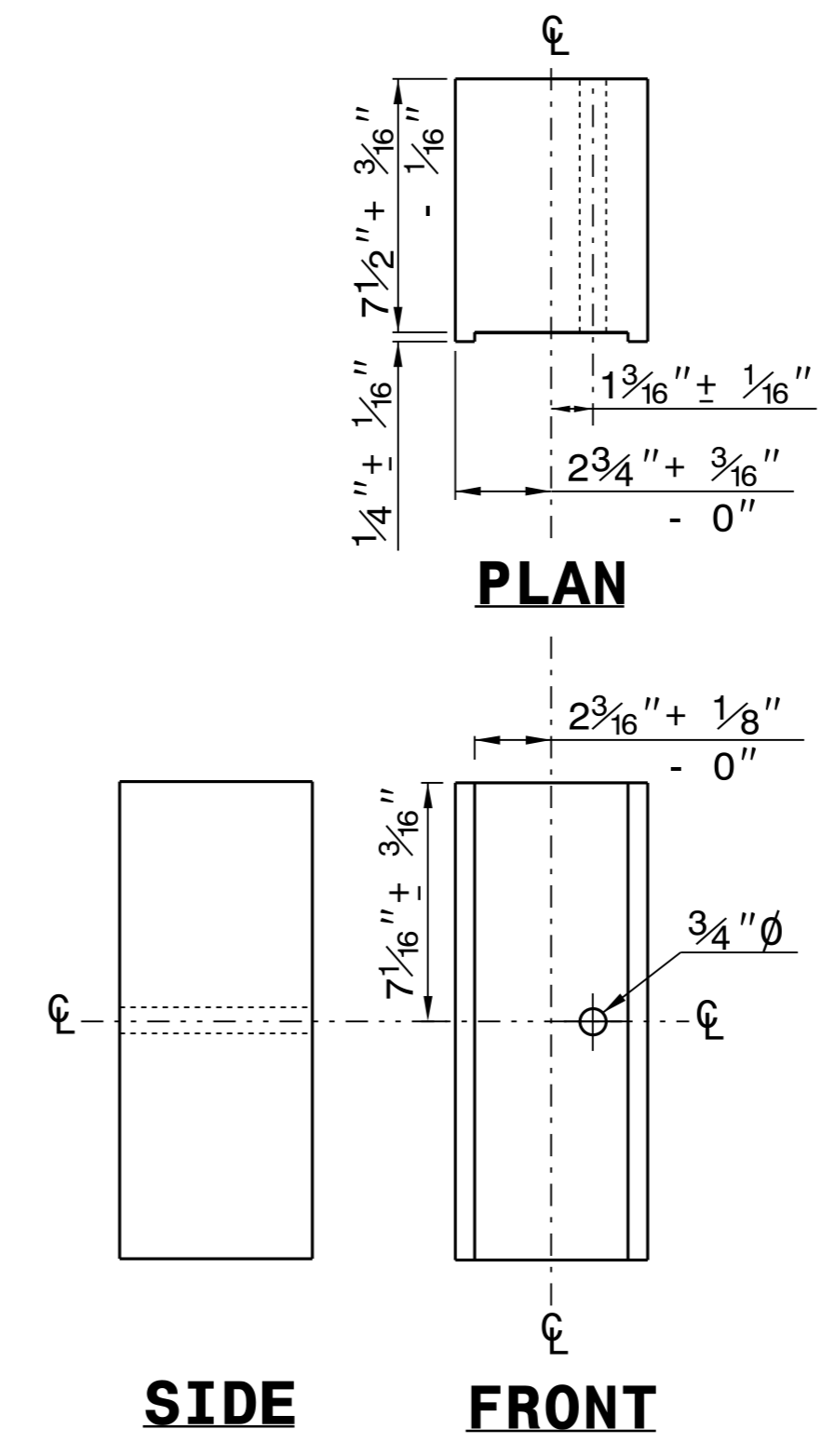


**STANDARD
LINE POST**

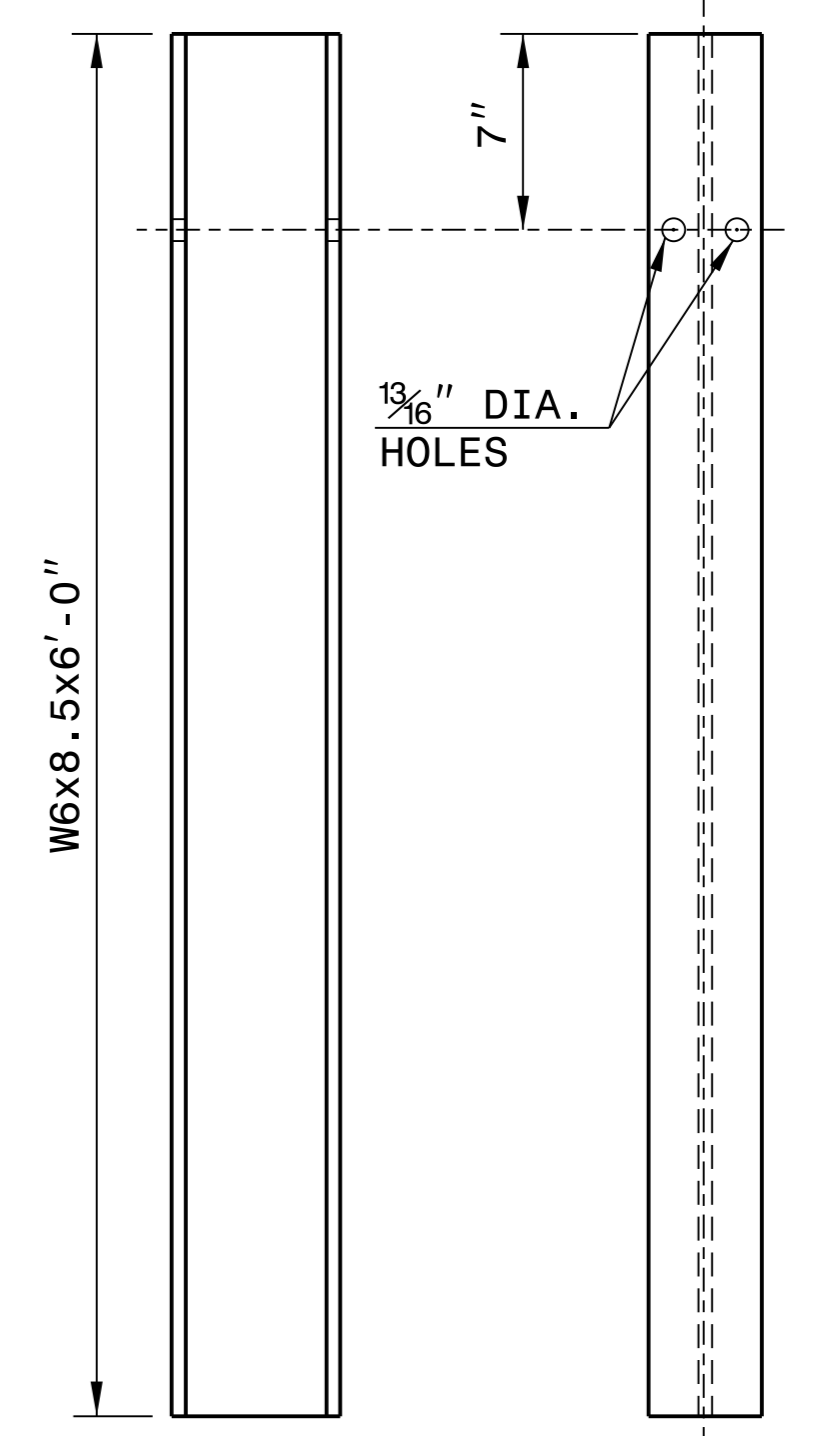
**SHORT WOOD
BREAKAWAY POST**



**STEEL TUBE
TS 6"x8"x0.1875"**



**ROUTED
OFFSET BLOCK**



"W6" STEEL POST

SYSTEM PARTS

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON DATE: 3-7-2018
MODIFIED BY: DATE: _____
CHECKED BY: DATE: _____
FILE SPEC.: _____

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STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

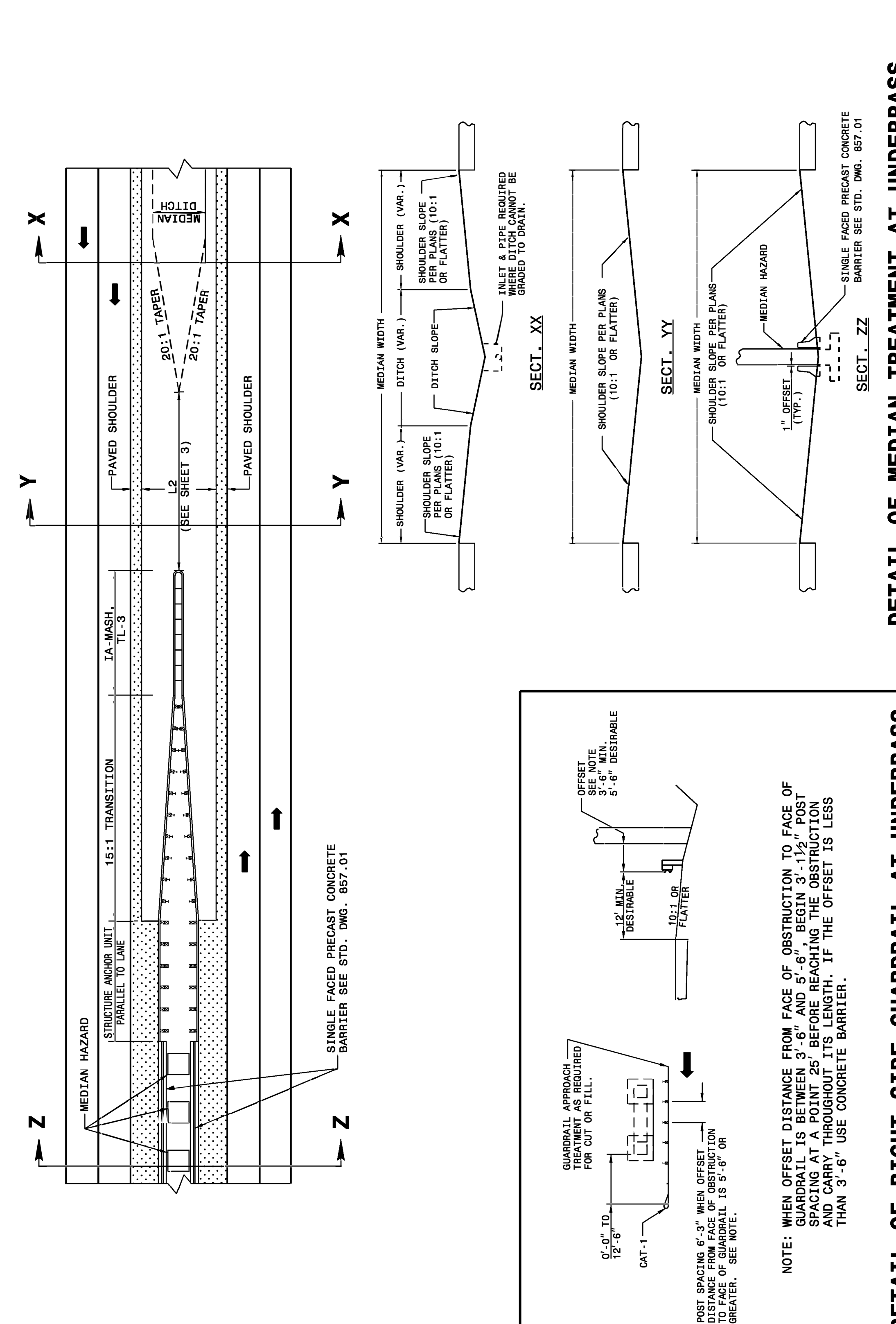
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 1 OF 11
862D01

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 1 OF 11
862D01



ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

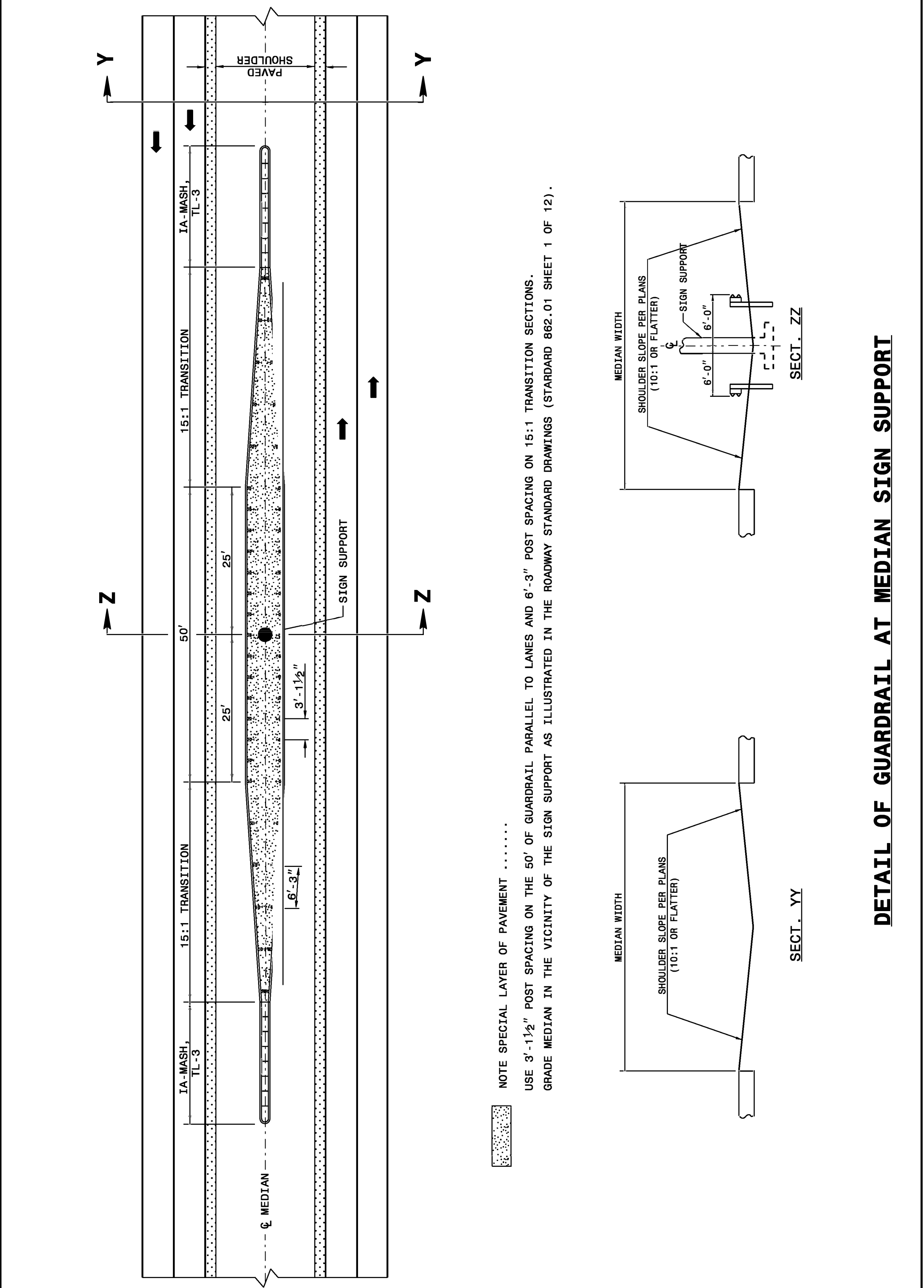
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 2 OF 11
862D01

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 2 OF 11
862D01



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CONTRACT STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

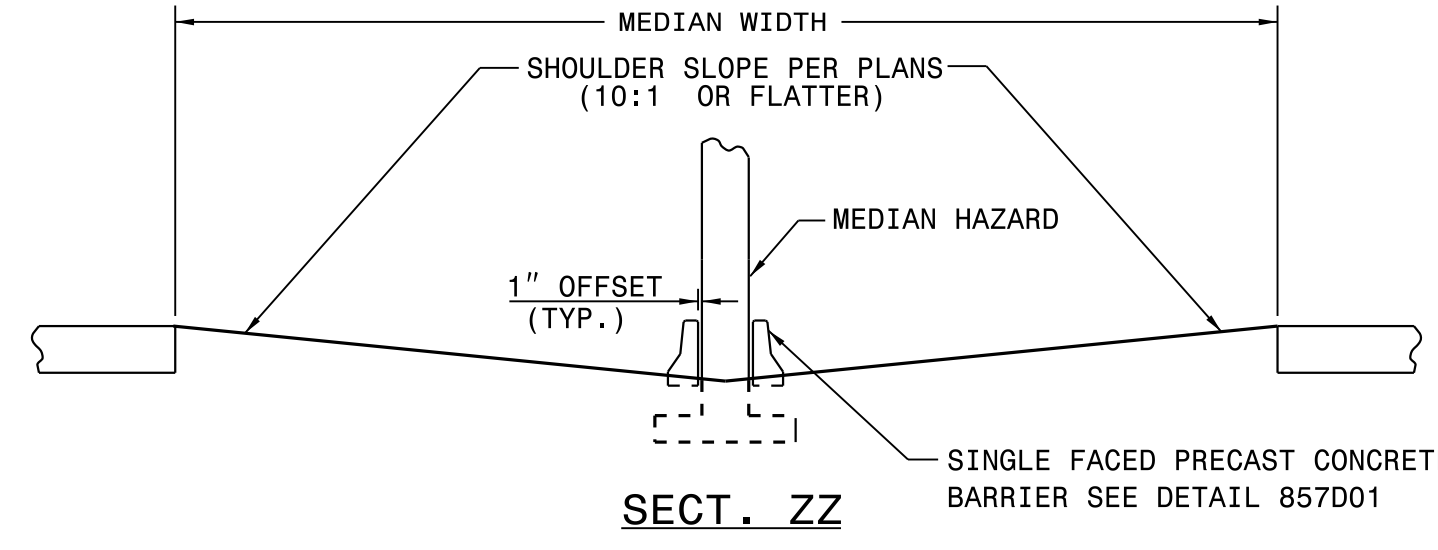
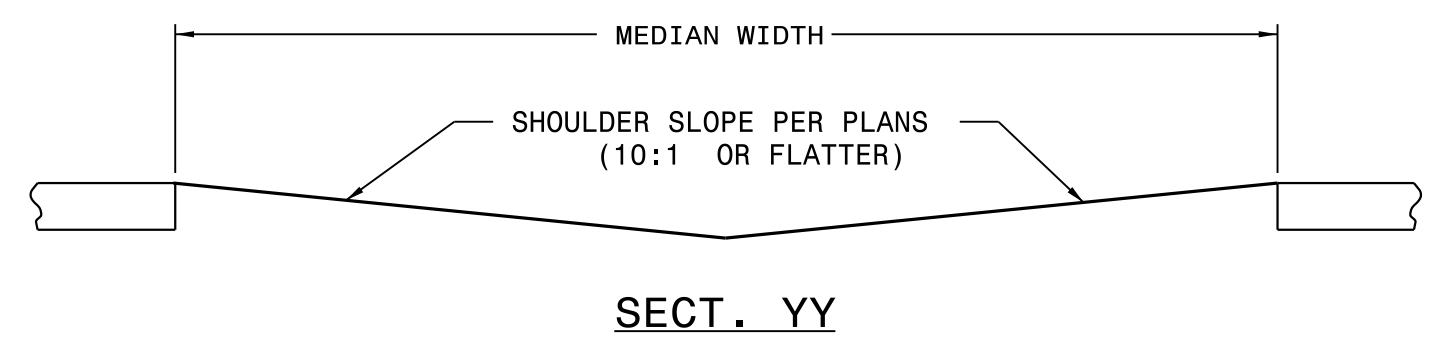
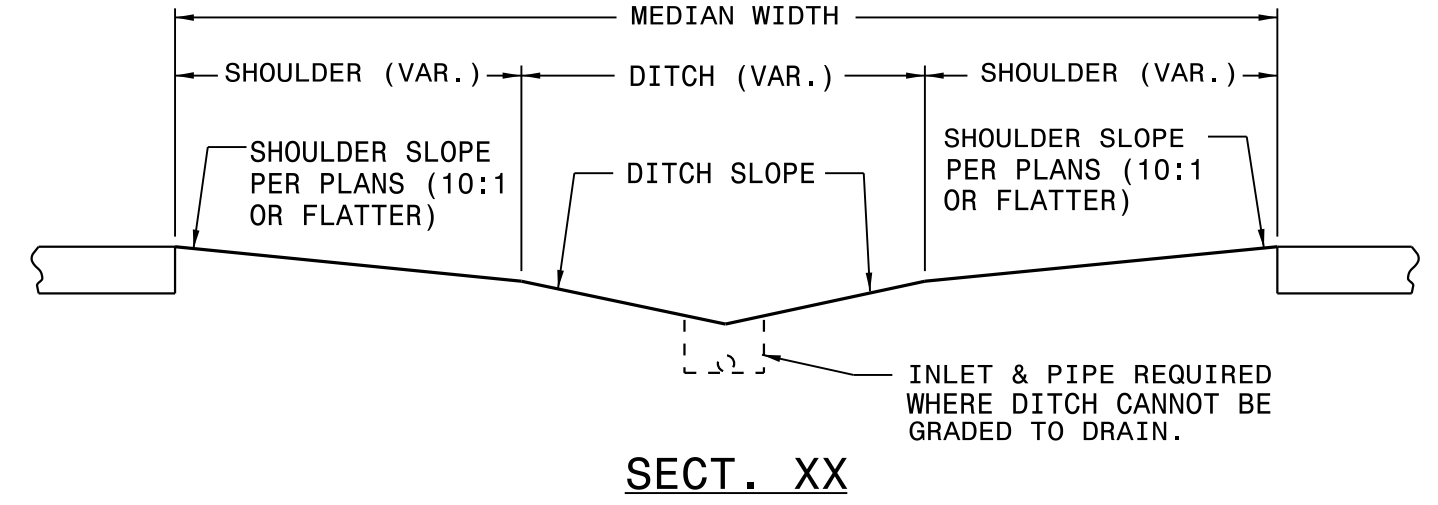
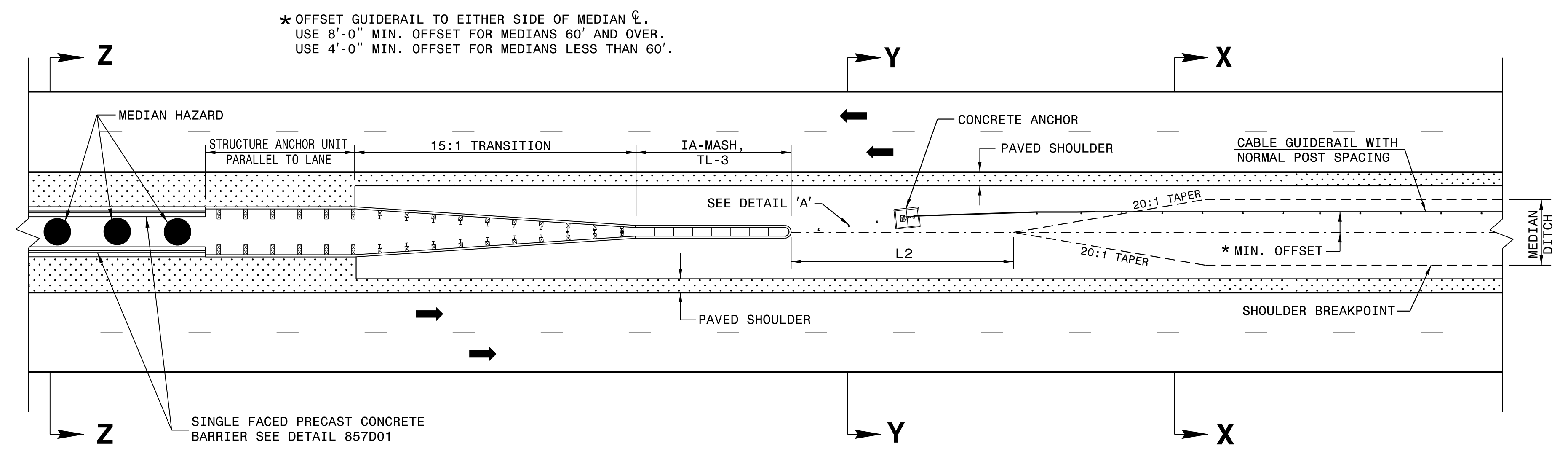
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 CHECKED BY: DATE:
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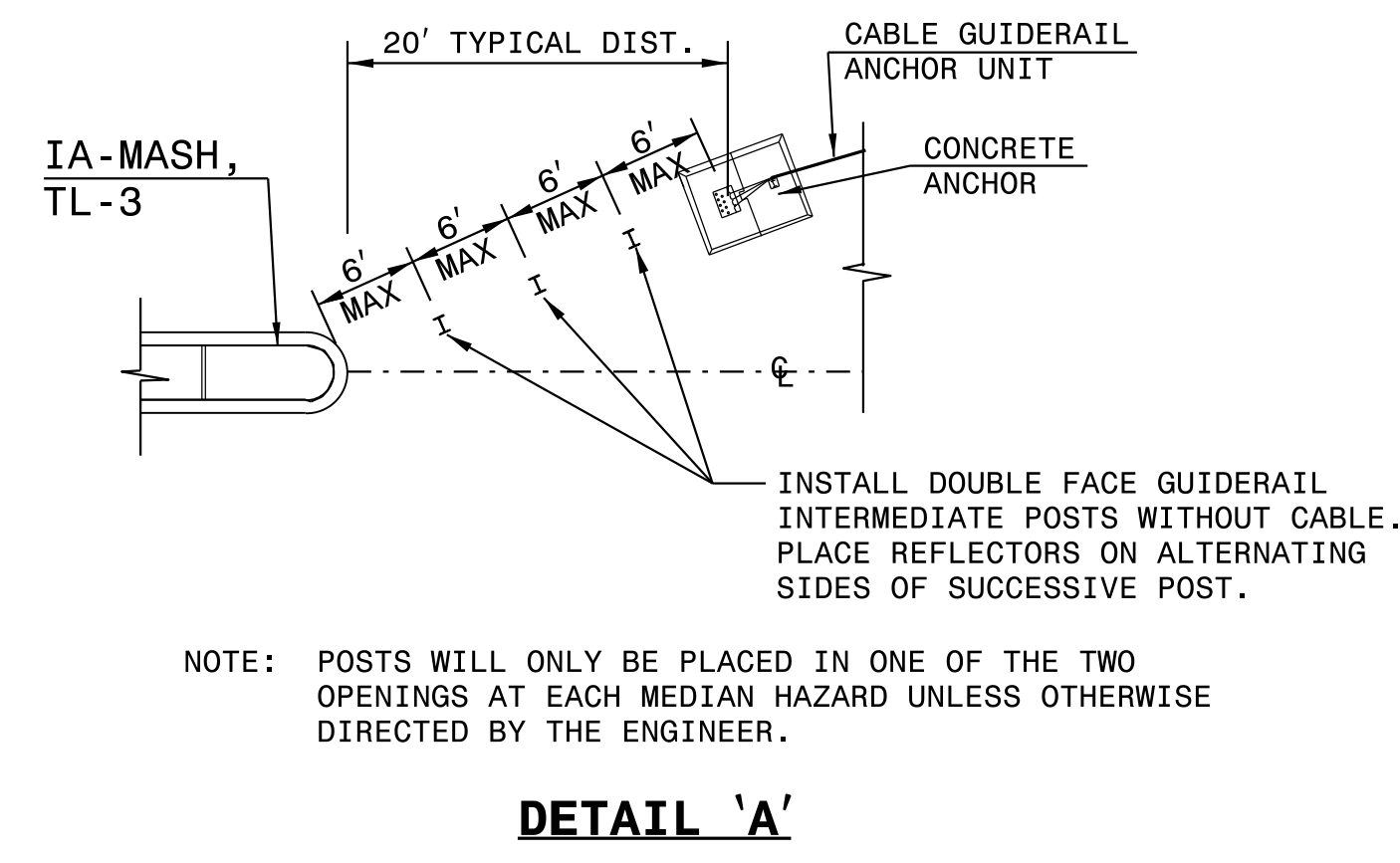
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CABLE GUIDERAIL
MEDIAN HAZARD GUIDERAIL LAYOUT

SHEET 1 OF 12
865D01



LIMITS OF -L2-	
MEDIAN WIDTH	-L2- DIMENSION
30'	80.0'
36'	60.0'
40' & ABOVE	40.0'



DETAIL OF TREATMENT AT MEDIAN HAZARDS

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CABLE GUIDERAIL
MEDIAN HAZARD GUIDERAIL LAYOUT

SHEET 1 OF 12
865D01



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**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
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SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON DATE: 08-23-18
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

31-JAN-2019 10:43
S:\Contracts\Contractors\Siggo\1 Details\Howerton\Standard Drawings\2018 Standard Drawings\Division 8\865D01 Impact Attenuator Sheet 1.dgn
Howerton AI CS0-232955

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

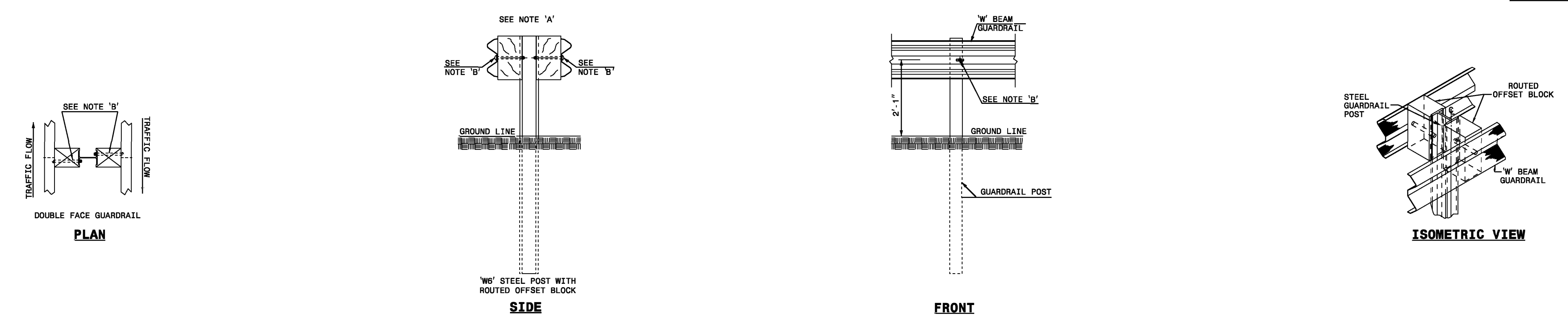
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT
DOUBLE FACED W-BEAM

SHEET OF
862D01

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT
DOUBLE FACED W-BEAM

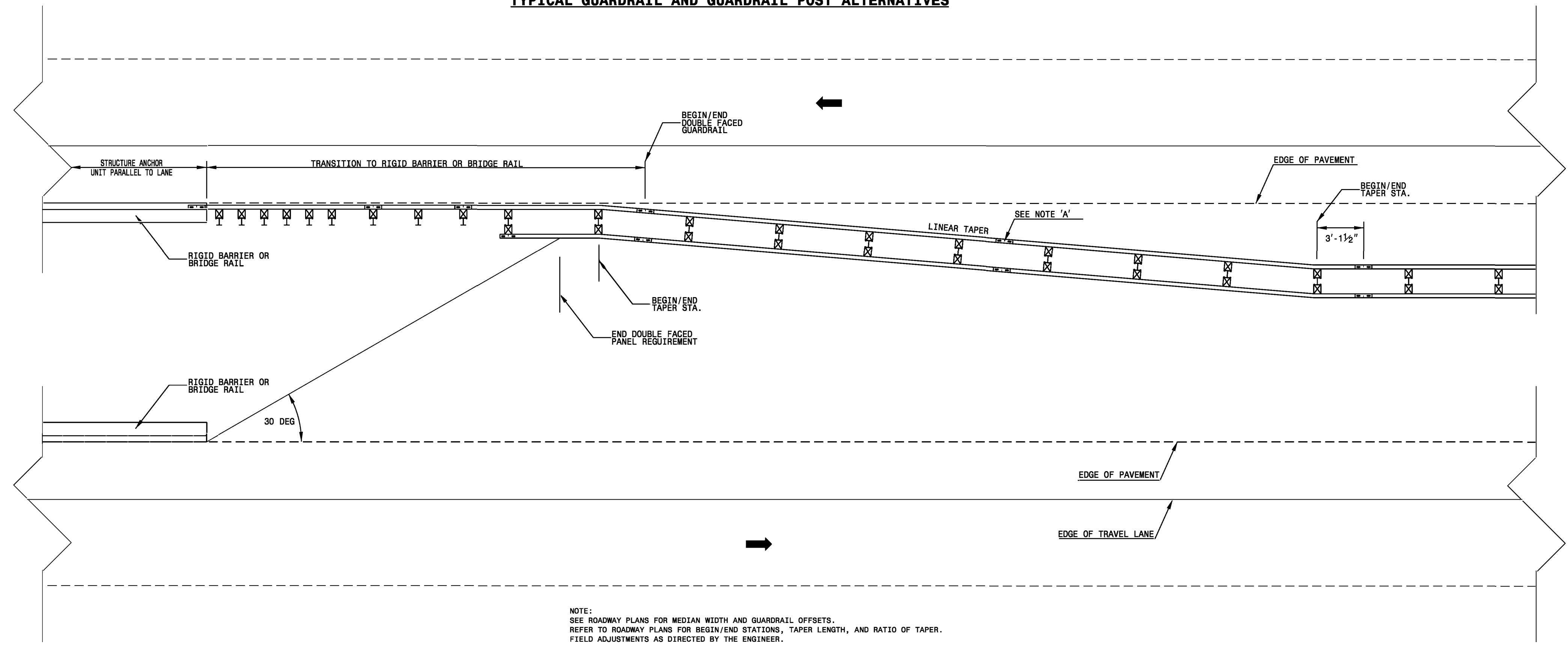
SHEET OF
862D01



DRAWING NOT TO SCALE

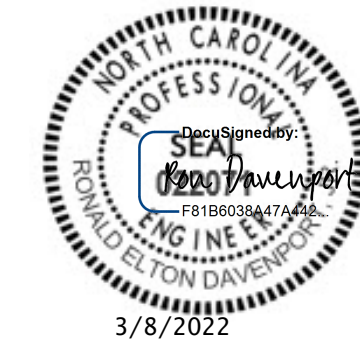
NOTES:
A - 5/8" DIA. BUTTON HEAD SPLICE BOLT 1 1/4" LONG (8 REQ. PER SPLICE JOINT).
B - 5/8" DIA. BUTTON HEAD BOLT 7 1/2" / 9" LONG WITH NUT FOR BOLTING 6" / 8" ROUTED OFFSET BLOCK TO STEEL POSTS.
C - FIELD PUNCHING OF HOLES INTO GUARDRAIL AS DIRECTED BY THE ENGINEER.

TYPICAL GUARDRAIL AND GUARDRAIL POST ALTERNATIVES



NOTE:
SEE ROADWAY PLANS FOR MEDIAN WIDTH AND GUARDRAIL OFFSETS.
REFER TO ROADWAY PLANS FOR BEGIN/END STATIONS, TAPER LENGTH, AND RATIO OF TAPER.
FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.

APPROACH TO RIGID BARRIER OR BRIDGE RAIL



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CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

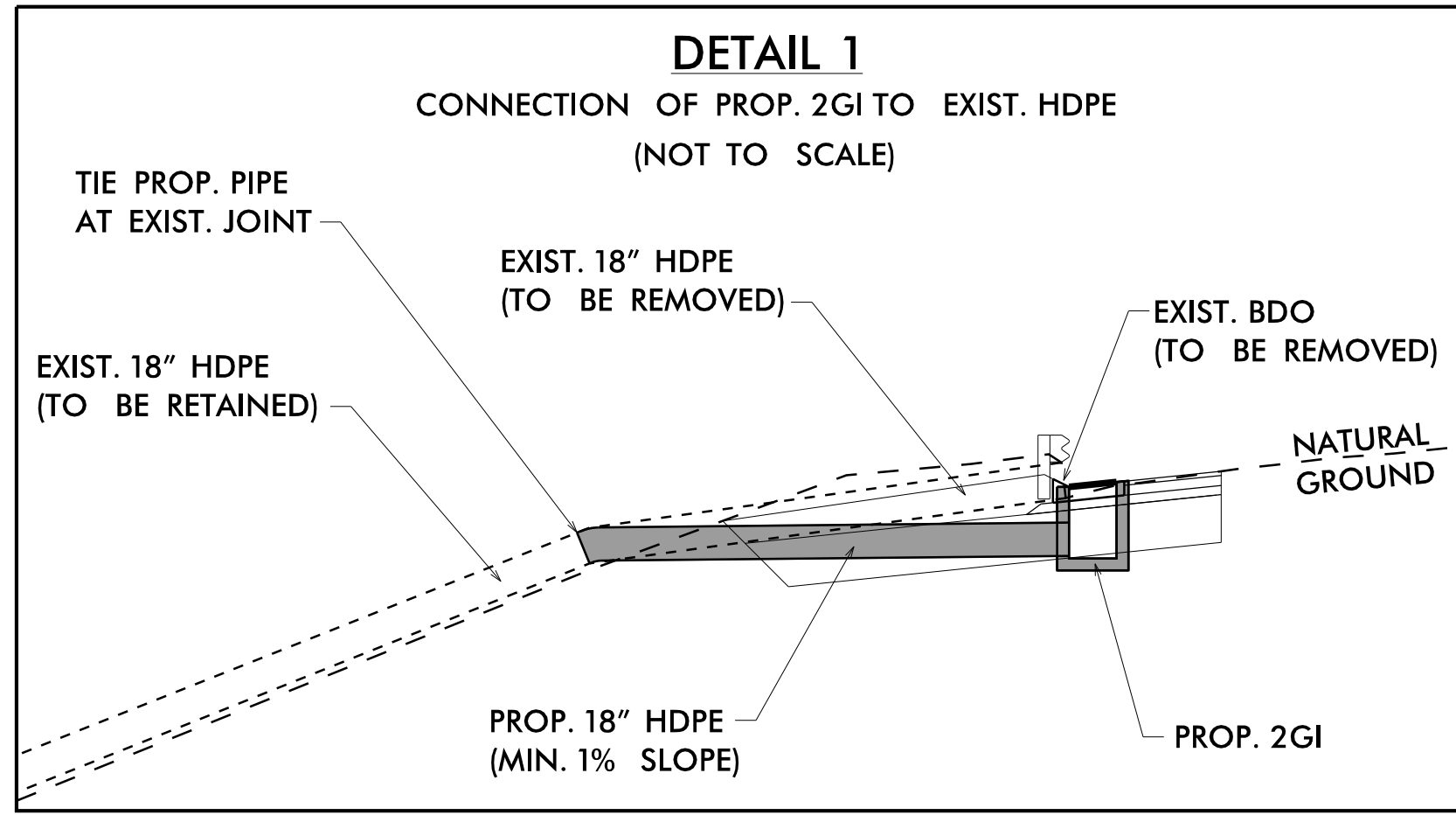
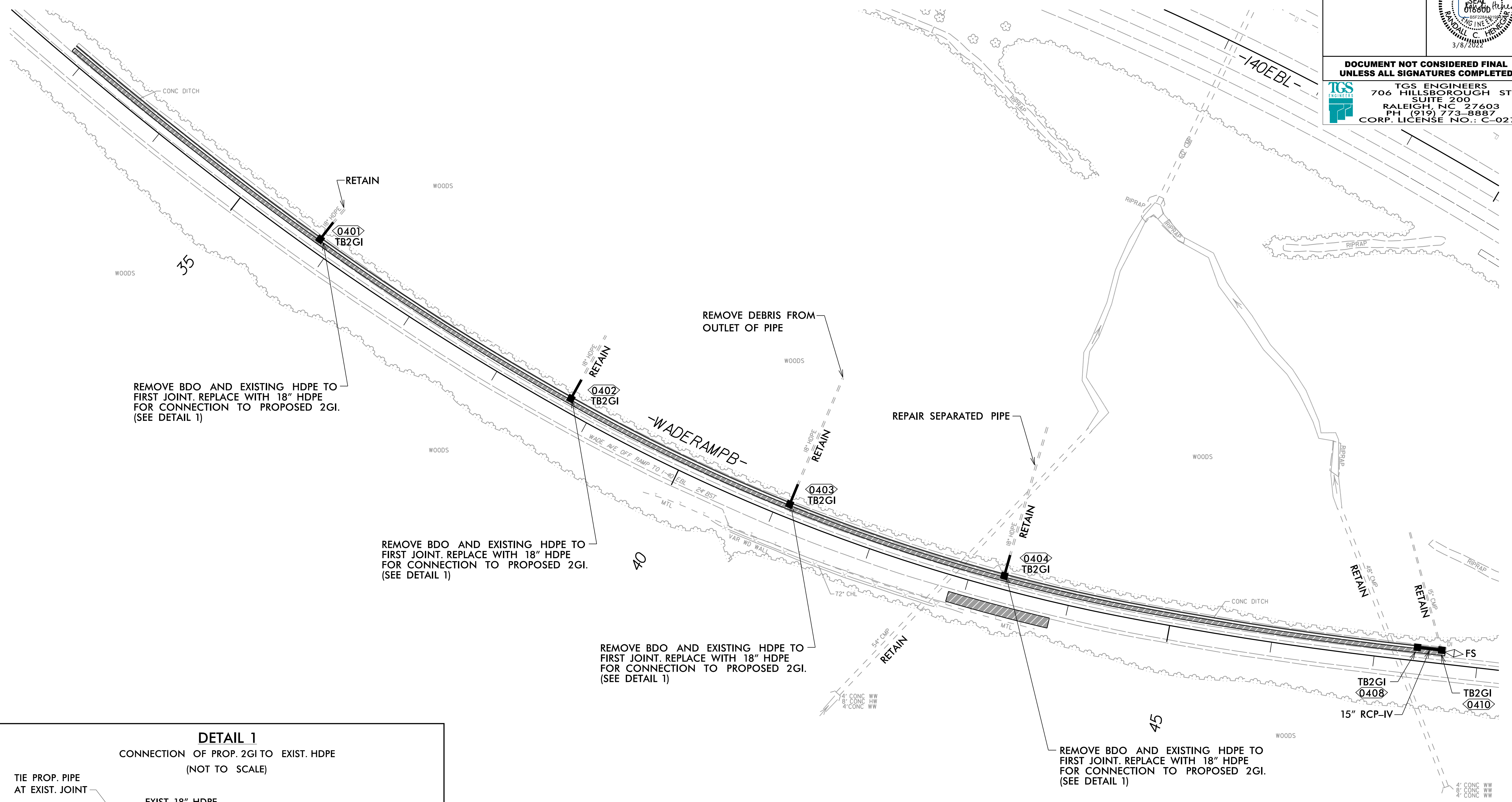
GUARDRAIL PLACEMENT DOUBLE FACED W-BEAM

ORIGINAL BY: _____ DATE: _____
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: _____

8.17.99

WADE AVE RAMP B (-WADERAMPB-) DRAINAGE DETAIL

PROJECT REFERENCE NO. 1-5943	SHEET NO. 2D-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 706 HILLSBOROUGH ST SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



- NOTES:**
- NO LOCATION SURVEY HAS BEEN PERFORMED ON THIS PROJECT. ALIGNMENTS SHOWN ARE INTENDED TO PROVIDE APPROXIMATE LENGTHS AND LOCATIONS ONLY.
 - PLAN STATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DETERMINED BY THE ENGINEER.

REVISIONS

IC:\JAN-2022_09-41_R\Drawings\1-5943_Hyd_DRN_Detail_Sheet.dgn

COMPUTED BY: JDB
CHECKED BY: TSH

DATE: 12/28/21
DATE: 01/10/22

PROJECT NO.
I-5943

SHEET NO.
3B-3

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	000960000-E	003600000-E	019600000-E	033530000-E	044820000-E	099600000-N	109950000-E	109970000-E	124500000-E	129700000-E			130800000-E	149100000-E	150300000-E	152300000-E	152420000-E	157500000-E	157700000-E	
							CONCRETE DITCH REMOVAL	UNDERCUT EXCAVATION	GEOTEXTILE FOR SOIL STABILIZATION	18" DRAINAGE PIPE	15" RC PIPE CULVERTS, CLASS IV	PIPE CLEAN OUT	SHALLOW UNDERCUT	CLASS IV SUBGRADE STABILIZATION	SHOULDER RECONSTRUCTION	5/8" MILLING	2-5/8" MILLING	2" MILLING	2" TO 2-5/8" MILLING	BASE COURSE, B25.0C	INTERMEDIATE COURSE, I19.0C	SURFACE COURSE, S9.5C	SURFACE COURSE, S9.5D	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	
							MI	SY	CY	SY	LF	LF	EA	CY	TON	SMI	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS
I-5943	Wake	1	-I40EBL-	I-40 EB LANES	1	3.648		224	850.00						1.00	68,553	25,682	58,000				6,536	2,916	392	342	
I-5943	Wake	2	-I40WBL-	I-40 WB LANES	1	3.621		160	610.00						1.00	66,406	25,492	59,486				6,670	2,895	400	336	
I-5943	Wake	3	-WADELOOPB-	WADE OFF-LOOP	2	0.209									0.10			2,943							23	
I-5943	Wake	3	-WADERAMPB-	I-40 EB ON-RAMP	3	0.527	660.00		3,525.00	80.00	20.00	1.00	1,850	3,470	0.20			7,420	267	355	190		927	25	62	
I-5943	Wake	4	-WADERAMPD-	I-40 WB OFF-RAMP	3	0.592									0.20			8,335	267				940		64	
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	5	0.036										401									1	
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	6	0.059									0.10	727		138					16		2	
I-5943	Wake	6	-NCS4RAMPB-	I-40 WB ON-RAMP	4	0.191						1.00			0.10	1,793		896		70			132	3	11	
I-5943	Wake	7	-NCS4RAMPB-	I-40 EB OFF-RAMP	4	0.045									0.10	422		211					24		2	
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	5	0.042										468									1	
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	6	0.077									0.10	949		181					21		3	
I-5943	Wake	9	-NCS4RAMPD-	I-40 EB ON-RAMP	4	0.145									0.10	1,361		681		60			103	3	8	
I-5943	Wake	10	-CTBRAMPB-	I-40 WB ON-RAMP	7	0.252									0.10			3,844					433		25	
I-5943	Wake	11	-CTBLOOPB-	I-40 WB OFF-LOOP	8	0.163									0.10			2,295					259		15	
I-5943	Wake	12	-CTBSPURB-	CTB LOOP B SPUR	9	0.034												479					54		3	
I-5943	Wake	13	-CTBRAMPB-	I-40 EB OFF-RAMP	7	0.236									0.10			3,600		70			436	3	25	
I-5943	Wake	14	-CTBSPURC-	CTB RAMP C SPUR	10	0.026												397					45		3	
I-5943	Wake	15	-CTBSPURD-	CTB RAMP D SPUR	10	0.03												528					59		3	
I-5943	Wake	16	-CTBRAMPD-	I-40 EB ON-RAMP	7	0.243									0.10			4,562					514		29	
GRAND TOTAL FOR PROJECT NO. I-5943							10.176	660.00	384	4,985.00	80.00	20.00	2.00	1,850	3,470	3.40	141,080	51,174	153,996	801	555	190	13,206	10,106	826	958

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	173500000-E	173600000-E	173700000-E	183914000-E	184000000-E	228600000-N	236700000-N	255600000-E	276200000-E	299500000-N	300100000-N	303000000-E	306000000-E	315000000-N	321000000-N	328700000-N	331700000-N		
							REPAIR OF JOINTED CONCRETE PAVEMENT SLABS	SELECT MATERIAL, CLASS IV	PATCHING CONCRETE PAVEMENT SPALLS	ULTRA-THIN BONDED WEARING COURSE	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE)	MASONRY DRAINAGE STRUCTURES	FRAME WITH TWO GRATES, STD 840.29	SHOULDER BERM GUTTER	SEALING EXISTING PAVEMENT CRACKS AND JOINTS	DRAINAGE STRUCTURE REPAIR	DRAINAGE PIPE REPAIR	IMPACT ATTENUATOR UNITS, TYPE TL-3	STEEL BEAM GUARDRAIL	STEEL BEAM GUARDRAIL, DOUBLE FACED	ADDITIONAL GUARDRAIL POSTS	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL END UNITS, TYPE TL-3	GUARDRAIL ANCHOR UNITS, TYPE B-77	
							MI	SY	TON	SF	TON	EA	EA	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA		
I-5943	Wake	1	-I40EBL-	I-40 EB LANES	1	3.648	544	105	5,000	3,374	38,523														
I-5943	Wake	2	-I40WBL-	I-40 WB LANES	1	3.621	768	150	5,000	3,291	38,238														
I-5943	Wake	3	-WADELOOPB-	WADE OFF-LOOP	2	0.209				88															
I-5943	Wake	3	-WADERAMPB-	I-40 EB ON-RAMP	3	0.527				184			6.00		6.00		1,484								
I-5943	Wake	4	-WADERAMPD-	I-40 WB OFF-RAMP	3	0.592				207															
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	5	0.036			250	14															
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	6	0.059			250	25															
I-5943	Wake	6	-NCS4RAMPB-	I-40 WB ON-RAMP	4	0.191			500	67															
I-5943	Wake	7	-NCS4RAMPB-	I-40 EB OFF-RAMP	4	0.045			500	16															
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	5	0.042			250	16															
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	6	0.077			250	33															
I-5943	Wake	9	-NCS4RAMPD-	I-40 EB ON-RAMP	4	0.145			500	51															
I-5943	Wake	10	-CTBRAMPB-	I-40 WB ON-RAMP	7	0.252																			
I-5943	Wake	11	-CTBLOOPB-	I-40 WB OFF-LOOP	8	0.163																			
I-5943	Wake	12	-CTBSPURB-	CTB LOOP B SPUR	9	0.034																			
I-5943	Wake	13	-CTBRAMPB-	I-40 EB OFF-RAMP	7	0.236																			
I-5943	Wake	14	-CTBSPURC-	CTB RAMP C SPUR	10	0.026																			
I-5943	Wake	15	-CTBSPURD-	CTB RAMP D SPUR	10	0.03																			
I-5943	Wake	16	-CTBRAMPD-	I-40 EB ON-RAMP	7	0.243																			
GRAND TOTAL FOR PROJECT NO. I-5943							10.176	1,312	255	12,500	7,366	76,761	6.00	6.00	1,484	38,773.00	3.00	1.00	4.00	5,375.00	100.00	58.00	19.00	28.00	19.00

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	334700000-E	336000000-E	343500000-N	440000000-E	442300000-N	442400000-N	443400000-N	451000000-N	460000000-N				465000000-N	468800000-E		470000000-E	472000000-E	
							REMOVE & RESET EXISTING GUIDERAIL	REMOVE EXISTING GUARDRAIL	GUARDRAIL & BARRIER DELINEATORS	STATIONARY WORK ZONE SIGN	WORK ZONE DIGITAL SPEED LIMIT SIGNS	WORK ZONE PRESENCE LIGHTING	SEQUENTIAL FLASHING WARNING LIGHTS	LAW ENFORCEMENT	DOUBLE LANE CLOSURE	CONNECTED LANE CLOSURE DEVICE	SINGLE LANE CLOSURE	RAMP/LOOP CLOSURE	TEMPORARY RAISED PAVEMENT MARKERS	6" X 90 M YELLOW THERMO	6" X 90 M WHITE THERMO	12" X 90 M WHITE THERMO	THERMO MSG 'ONLY' 90 M	
							MI	LF	LF	EA	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	
I-5943	Wake	1	-I40EBL-	I-40 EB LANES	1	3.648				500	4	7	18	752	9	2	37							
I-5943	Wake	2	-I40WBL-	I-40 WB LANES	1	3.621	3,800.00	2,302.00	65.00	500	4	7	18	752	9	2	37							
I-5943	Wake	3	-WADELOOPB-	WADE OFF-LOOP	2	0.209		421.00																
I-5943	Wake	3	-WADERAMPB-	I-40 EB ON-RAMP	3	0.527		406.00	72.00															
I-5943	Wake	4	-WADERAMPD-	I-40 WB OFF-RAMP	3	0.592																		
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	5	0.036		100.00	8.00															
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	6	0.059																		
I-5943	Wake	6	-NCS4RAMPB-	I-40 WB ON-RAMP	4	0.191																		
I-5943	Wake	7	-NCS4RAMPB-	I-40 EB OFF-RAMP	4	0.045																		
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	5	0.042		100.00	11.00															
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	6	0.077																		
I-5943	Wake	9	-NCS4RAMPD-	I-40 EB ON-RAMP	4	0.145																		
I-5943	Wake	10	-CTBRAMPB-	I-40 WB ON-RAMP	7	0.252																		
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I-5943	Wake	14	-CTBSPURC-	CTB RAMP C SPUR	10	0.026																		
I-5943	Wake	15	-CTBSPURD-	CTB RAMP D SPUR	10	0.03																		
I-5943	Wake	16	-CTBRAMPD-	I-40 EB ON-RAMP	7	0.243																		
GRAND TOTAL FOR PROJECT NO. I-5943							10.176	3,800.00	6,135.00	229.00	1,000	8	14	36	1,504	18	4	74	22	2,328	52,823	70,130	15,245	40

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 SUMMARY OF QUANTITIES**

X = REQUIRED

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	472500000-E				477500000-E		481500000-E		482500000-E	483500000-E	484000000-N	484500000-N			489100000-E	490500000-N	525500000-N	
							THERMO RT ARROW 90 M	THERMO MERGE ARROW 90 M	THERMO WRONG-WAY RAMP ARROW 90 M	THERMO STR & LT ARROW 90 M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE 3 (6" YELLOW)	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE 3 (6" WHITE)	6" WHITE PAINT	6" YELLOW PAINT	12" WHITE PAINT	24" WHITE PAINT	PAINT MSG 'ONLY'	PAINT RT ARROW	PAINT MERGE ARROW	PAINT STR & LT ARROW	24" X 90 M WHITE THERMO	SNOW PLOWABLE MARKERS	PORTABLE LIGHTING	
						MI	EA	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
I-5943	Wake	1	-I40EBL-	I-40 EB LANES	1	3.648	12	3			316.00	480.00	28,940	19,261	7,355		24	12	3	EA	LF		1,190	X
I-5943	Wake	2	-I40WBL-	I-40 WB LANES	1	3.621	8	6			316.00	470.00	28,520	19,119	7,430		16	8	6				1,110	X
I-5943	Wake	3	-WADELOOPB-	WADE OFF-LOOP	2	0.209							75	1,080										X
I-5943	Wake	3	-WADERAMPB-	I-40 EB ON-RAMP	3	0.527					865.00	865.00	2,775	2,775										X
I-5943	Wake	4	-WADERAMPD-	I-40 WB OFF-RAMP	3	0.592							3,105	3,135										X
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	5	0.036																		X
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	6	0.059								320										X
I-5943	Wake	6	-NCS4RAMPB-	I-40 WB ON-RAMP	4	0.191							1,005	1,020										X
I-5943	Wake	7	-NCS4RAMPB-	I-40 EB OFF-RAMP	4	0.045							235	245										X
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	5	0.042																		X
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	6	0.077								430										X
I-5943	Wake	9	-NCS4RAMPD-	I-40 EB ON-RAMP	4	0.145							765	770										X
I-5943	Wake	10	-CTBRAMPB-	I-40 WB ON-RAMP	7	0.252							1,335	1,335										X
I-5943	Wake	11	-CTBLOOPB-	I-40 WB OFF-LOOP	8	0.163							810	625										X
I-5943	Wake	12	-CTBSPURB-	CTB LOOP B SPUR	9	0.034			1					178							18	14		X
I-5943	Wake	13	-CTBRAMPB-	I-40 EB OFF-RAMP	7	0.236			1	1			1,135	1,245	65					1	21	14		X
I-5943	Wake	14	-CTBSPURC-	CTB RAMP C SPUR	10	0.026	1						150		110									X
I-5943	Wake	15	-CTBSPURD-	CTB RAMP D SPUR	10	0.03							150		145									X
I-5943	Wake	16	-CTBRAMPD-	I-40 EB ON-RAMP	7	0.243							1,205	1,285	65									X
GRAND TOTAL FOR PROJECT NO. I-5943						10.176	21	9	2	1	1,497	1,815	70,205	52,823	15,170	39	40	20	9	1	39	2,328	1	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	600000000-E	606000000-E	601200000-E	601500000-E	601800000-E	602100000-E	602400000-E	602900000-E	603600000-E	604200000-E	6071012000-E	608400000-E	608700000-E	609000000-E	609300000-E	609600000-E	
							TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS A	SEDIMENT CONTROL STONE	TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING	TEMPORARY SLOPE DRAINS	SAFETY FENCE	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	COIR FIBER WATTLE	SEEDING & MULCHING	MOWING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	SEED FOR SUPPLEMENTAL SEEDING	
						MI	LF	TON	TON	ACR	LB	TON	LF	LF	SY	LF	LF	AC	ACR	LB	TON	LB	
I-5943	Wake	1	-I40EBL-	I-40 EB LANES	1	3.648																	2.50
I-5943	Wake	2	-I40WBL-	I-40 WB LANES	1	3.621																	2.50
I-5943	Wake	3	-WADELOOPB-	WADE OFF-LOOP	2	0.209																	0.25
I-5943	Wake	3	-WADERAMPB-	I-40 EB ON-RAMP	3	0.527	2,005	75	30	0.50	100	0.50	200	50	500	150	90	1.25	0.50	50	0.25	50	
I-5943	Wake	4	-WADERAMPD-	I-40 WB OFF-RAMP	3	0.592																	0.50
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	5	0.036																	
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	6	0.059																	0.25
I-5943	Wake	6	-NCS4RAMPB-	I-40 WB ON-RAMP	4	0.191	400								40		40						0.50
I-5943	Wake	7	-NCS4RAMPB-	I-40 EB OFF-RAMP	4	0.045																	0.25
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	5	0.042																	
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	6	0.077																	0.25
I-5943	Wake	9	-NCS4RAMPD-	I-40 EB ON-RAMP	4	0.145	370								40		40						0.50
I-5943	Wake	10	-CTBRAMPB-	I-40 WB ON-RAMP	7	0.252																	0.25
I-5943	Wake	11	-CTBLOOPB-	I-40 WB OFF-LOOP	8	0.163																	0.25
I-5943	Wake	12	-CTBSPURB-	CTB LOOP B SPUR	9	0.034																	
I-5943	Wake	13	-CTBRAMPB-	I-40 EB OFF-RAMP	7	0.236	425																
I-5943	Wake	14	-CTBSPURC-	CTB RAMP C SPUR	10	0.026																	0.25
I-5943	Wake	15	-CTBSPURD-	CTB RAMP D SPUR	10	0.03																	
I-5943	Wake	16	-CTBRAMPD-	I-40 EB ON-RAMP	7	0.243																	
GRAND TOTAL FOR PROJECT NO. I-5943						10.176	3,200	75	30	0.50	100	0.50	200	50	620	150	210	10.00	0.50	50	0.25	50	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	610800000-E	611450000-N	611700000-N	611750000-N
							FERTILIZER TOPDRESSING	SPECIALIZED HAND MOWING	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE
						MI	TON	MHR	EA	EA
I-5943	Wake	1	-I40EBL-	I-40 EB LANES	1	3.648				
I-5943	Wake	2	-I40WBL-	I-40 WB LANES	1	3.621				
I-5943	Wake	3	-WADELOOPB-	WADE OFF-LOOP	2	0.209				
I-5943	Wake	3	-WADERAMPB-	I-40 EB ON-RAMP	3	0.527	0.25	10	13	1
I-5943	Wake	4	-WADERAMPD-	I-40 WB OFF-RAMP	3	0.592				
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	5	0.036				
I-5943	Wake	5	-NCS4LOOPA-	I-40 WB ON-LOOP	6	0.059				
I-5943	Wake	6	-NCS4RAMPB-	I-40 WB ON-RAMP	4	0.191			4	
I-5943	Wake	7	-NCS4RAMPB-	I-40 EB OFF-RAMP	4	0.045				
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	5	0.042				
I-5943	Wake	8	-NCS4LOOPC-	I-40 EB ON-LOOP	6	0.077				
I-5943	Wake	9	-NCS4RAMPD-	I-40 EB ON-RAMP	4	0.145			4	
I-5943	Wake	10	-CTBRAMPB-	I-40 WB ON-RAMP	7	0.252				
I-5943	Wake	11	-CTBLOOPB-	I-40 WB OFF-LOOP	8	0.163				
I-5943	Wake	12	-CTBSPURB-	CTB LOOP B SPUR	9	0.034				
I-5943	Wake	13	-CTBRAMPB-	I-40 EB OFF-RAMP	7	0.236			4	
I-5943	Wake	14	-CTBSPURC-	CTB RAMP C SPUR	10	0.026				
I-5943	Wake	15	-CTBSPURD-	CTB RAMP D SPUR	10	0.03				
I-5943	Wake	16	-CTBRAMPD-	I-40 EB ON-RAMP	7	0.243				
GRAND TOTAL FOR PROJECT NO. I-5943						10.176	0.25	10	25	1

NOTES:

1. NO LOCATION SURVEY HAS BEEN PERFORMED ON THIS PROJECT. ALIGNMENTS SHOWN ARE INTENDED TO PROVIDE APPROXIMATE LENGTHS AND LOCATIONS ONLY.
2. PLAN STATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DETERMINED BY THE ENGINEER.

8.17.99

REVISIONS



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