

09/08/19

See Sheet 1-A For Index of Sheets

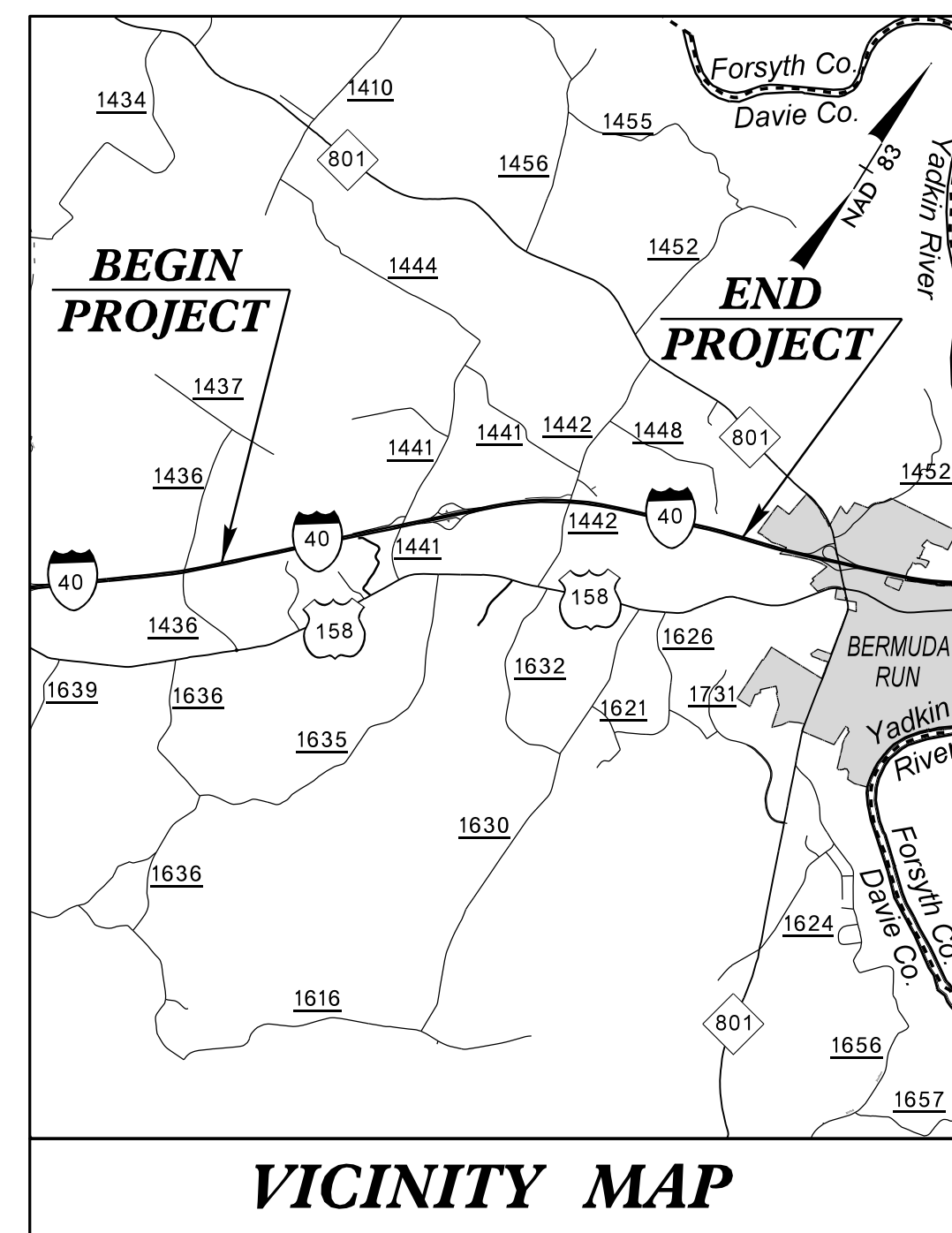
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DAVIE COUNTY

LOCATION: I-40 FROM EAST OF SR 1436 (PINEBROOK SCHOOL ROAD) (MILEPOST 175.48) TO WEST OF NC 801 (MILEPOST 179.12)

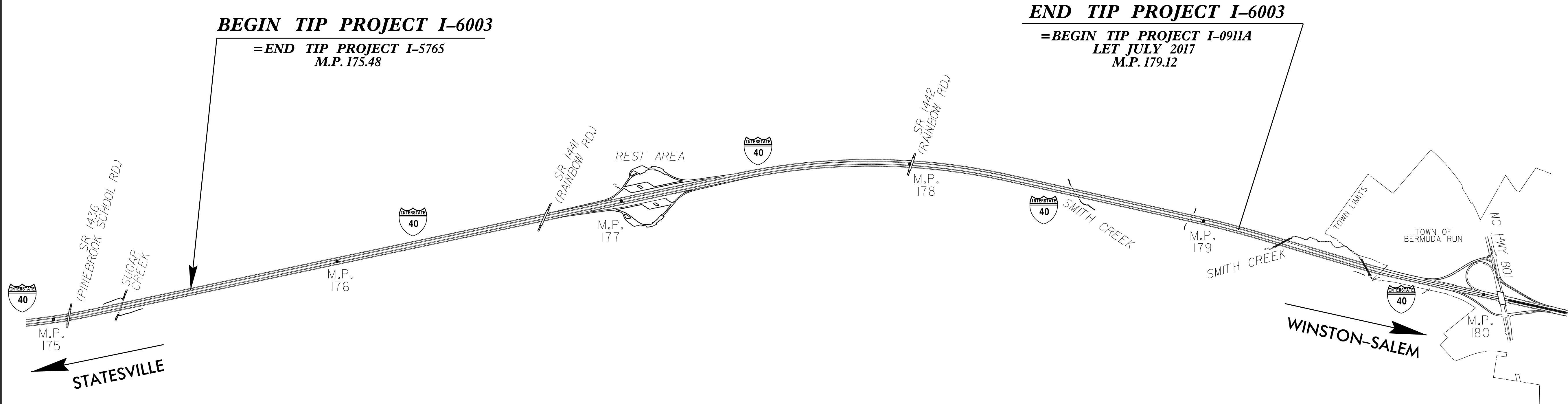
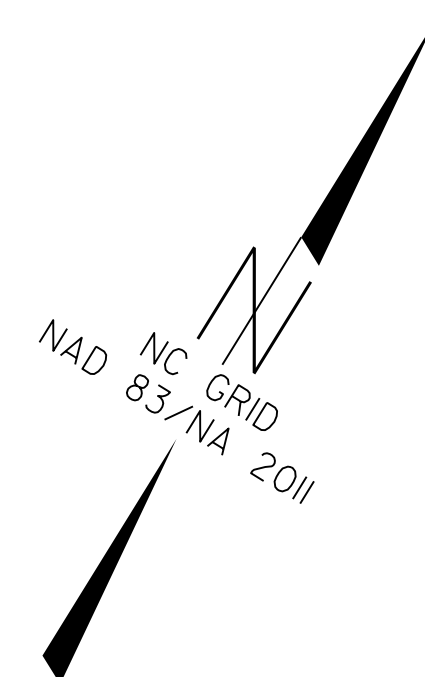
TYPE OF WORK: PAVEMENT REHABILITATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-6003	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47957.1.1	0040111	PE	
47957.3.1	0040111	CONSTRUCTION	



TIP PROJECT: I-6003

CONTRACT: C204645



BEGIN TIP PROJECT I-6003
=END TIP PROJECT I-5765
M.P. 175.48

END TIP PROJECT I-6003
=BEGIN TIP PROJECT I-0911A
LET JULY 2017
M.P. 179.12

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

GRAPHIC SCALES

N/A

DESIGN DATA

ADT 2021 = 40,500
 ADT 2030 = 55,100
 K = 10 %
 D = 60 %
 T = 17 % *
 V = 70 MPH
 * TTST = 13 DUAL 4
 FUNC CLASS = INTERSTATE

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-6003 = 3.640 MILES
 TOTAL LENGTH TIP PROJECT I-6003 = 3.640 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 NINTH DIVISION DESIGN/CONSTRUCT
 375 SILAS CREEK PARKWAY WINSTON-SALEM, N.C. 27127

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
SEPTEMBER 21, 2021

SCOTT A. JONES, PE
PROJECT ENGINEER

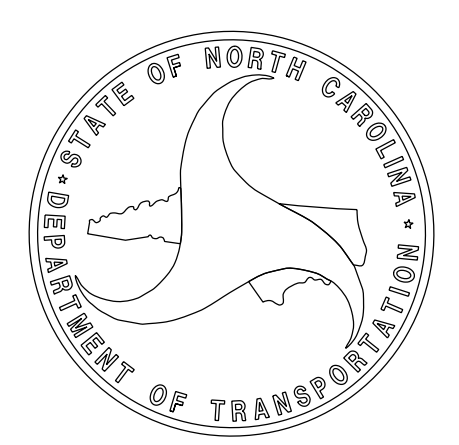
JEREMY L. KEATON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



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PROJECT REFERENCE NO.	SHEET NO.
1-6003	1A
	ROADWAY DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS
2C-1	DETAIL FOR REPAIR OF CONTINUOUSLY REINFORCED CONCRETE PAVEMENT
3B-1	PAVEMENT/SLAB REMOVAL SUMMARY
4	PLAN SHEET
TMP-1 THRU TMP-17	TRAFFIC MANAGEMENT PLANS

GENERAL NOTES: 2018 SPECIFICATIONS

SURFACING: THE ROUGH GRADING AND STRUCTURES ON THIS PROJECT HAVE BEEN DONE OR ARE NOW BEING DONE UNDER A PREVIOUS CONTRACT. THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

TEMPORARY SHORING: SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7

2018 ROADWAY ENGLISH STANDARD DRAWINGS

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 6-	ASPHALT BASES AND PAVEMENTS
665.01	ASPHALT SHOULDERS - MILLED RUMBLE STRIPS

EFF. 01-16-2018
REV.

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- WLB ---
Proposed Wetland Boundary	--- WLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---
Existing Historic Property Boundary	--- HPB ---
Known Contamination Area: Soil	☠ S ☠
Potential Contamination Area: Soil	☠ S ☠
Known Contamination Area: Water	☠ W ☠
Potential Contamination Area: Water	☠ W ☠
Contaminated Site: Known or Potential	☠ ☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	--- JS ---
Buffer Zone 1	--- BZ 1 ---
Buffer Zone 2	--- BZ 2 ---
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	---
Proposed Lateral, Tail, Head Ditch	--- FLOW ---
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	○ R W
New Right of Way Line with Pin and Cap	○ R W ▲
New Right of Way Line with Concrete or Granite R/W Marker	▲ R W
New Control of Access Line with Concrete C/A Marker	▲ C/A
Existing Control of Access	○ C/A
New Control of Access	○ C/A
Existing Easement Line	--- E ---
New Temporary Construction Easement	--- E ---
New Temporary Drainage Easement	--- TDE ---
New Permanent Drainage Easement	--- PDE ---
New Permanent Drainage / Utility Easement	--- DUE ---
New Permanent Utility Easement	--- PUE ---
New Temporary Utility Easement	--- TUE ---
New Aerial Utility Easement	--- AUE ---

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	--- C ---
Proposed Slope Stakes Fill	--- F ---
Proposed Curb Ramp	--- CR ---
Existing Metal Guardrail	--- T ---
Proposed Guardrail	--- T ---
Existing Cable Guiderail	--- T ---
Proposed Cable Guiderail	--- T ---
Equality Symbol	⊕
Pavement Removal	▨

VEGETATION:

Single Tree	○
Single Shrub	○

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	○
Vineyard	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
Storm Sewer	--- S ---

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	--- P ---
U/G Power Line LOS C (S.U.E.*)	--- P ---
U/G Power Line LOS D (S.U.E.*)	--- P ---

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ T
Telephone Pedestal	□ T
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	○ T
U/G Telephone Cable LOS B (S.U.E.*)	--- T ---
U/G Telephone Cable LOS C (S.U.E.*)	--- T ---
U/G Telephone Cable LOS D (S.U.E.*)	--- T ---
U/G Telephone Conduit LOS B (S.U.E.*)	--- TC ---
U/G Telephone Conduit LOS C (S.U.E.*)	--- TC ---
U/G Telephone Conduit LOS D (S.U.E.*)	--- TC ---
U/G Fiber Optics Cable LOS B (S.U.E.*)	--- T FO ---
U/G Fiber Optics Cable LOS C (S.U.E.*)	--- T FO ---
U/G Fiber Optics Cable LOS D (S.U.E.*)	--- T FO ---

WATER:

Water Manhole	○ W
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	--- W ---
U/G Water Line LOS C (S.U.E.*)	--- W ---
U/G Water Line LOS D (S.U.E.*)	--- W ---
Above Ground Water Line	--- A/G Water ---

TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	○ TV
U/G TV Cable LOS B (S.U.E.*)	--- TV ---
U/G TV Cable LOS C (S.U.E.*)	--- TV ---
U/G TV Cable LOS D (S.U.E.*)	--- TV ---
U/G Fiber Optic Cable LOS B (S.U.E.*)	--- TV FO ---
U/G Fiber Optic Cable LOS C (S.U.E.*)	--- TV FO ---
U/G Fiber Optic Cable LOS D (S.U.E.*)	--- TV FO ---

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	--- G ---
U/G Gas Line LOS C (S.U.E.*)	--- G ---
U/G Gas Line LOS D (S.U.E.*)	--- G ---
Above Ground Gas Line	--- A/G Gas ---

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	--- SS ---
Above Ground Sanitary Sewer	--- A/G Sanitary Sewer ---
SS Forced Main Line LOS B (S.U.E.*)	--- FSS ---
SS Forced Main Line LOS C (S.U.E.*)	--- FSS ---
SS Forced Main Line LOS D (S.U.E.*)	--- FSS ---

MISCELLANEOUS:

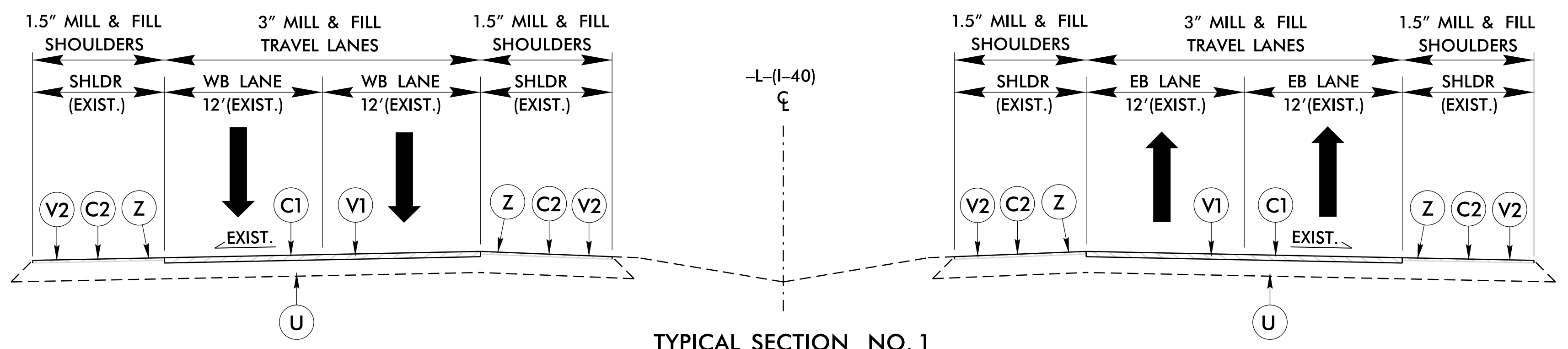
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown U/G Line LOS B (S.U.E.*)	--- 2UTL ---
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	○
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

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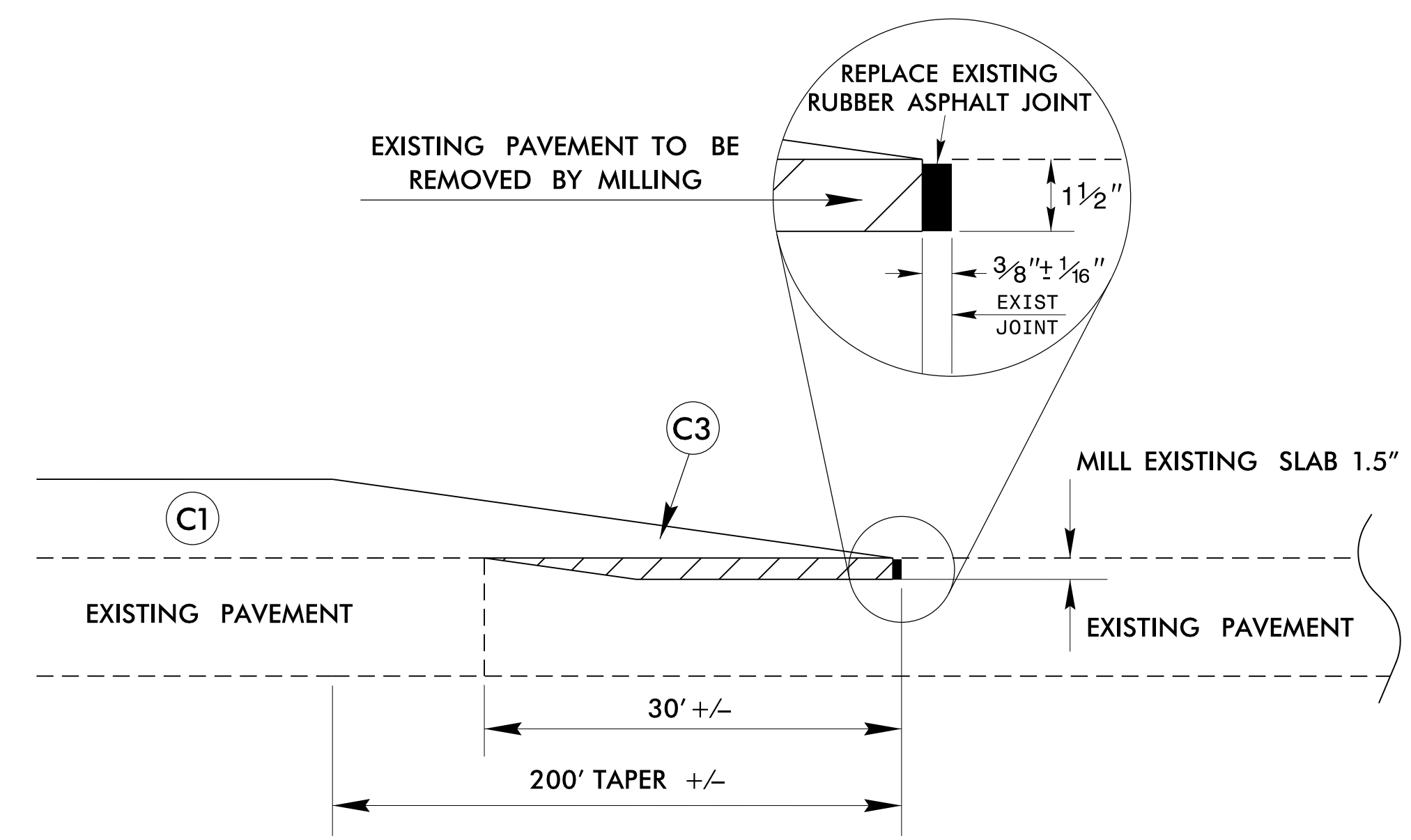
PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2.0" IN DEPTH
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. (SEE CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR DETAIL)
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT (3" DEPTH)
V2	MILLING ASPHALT PAVEMENT (1.5" DEPTH)
Z	MILLED RUMBLE STRIPS

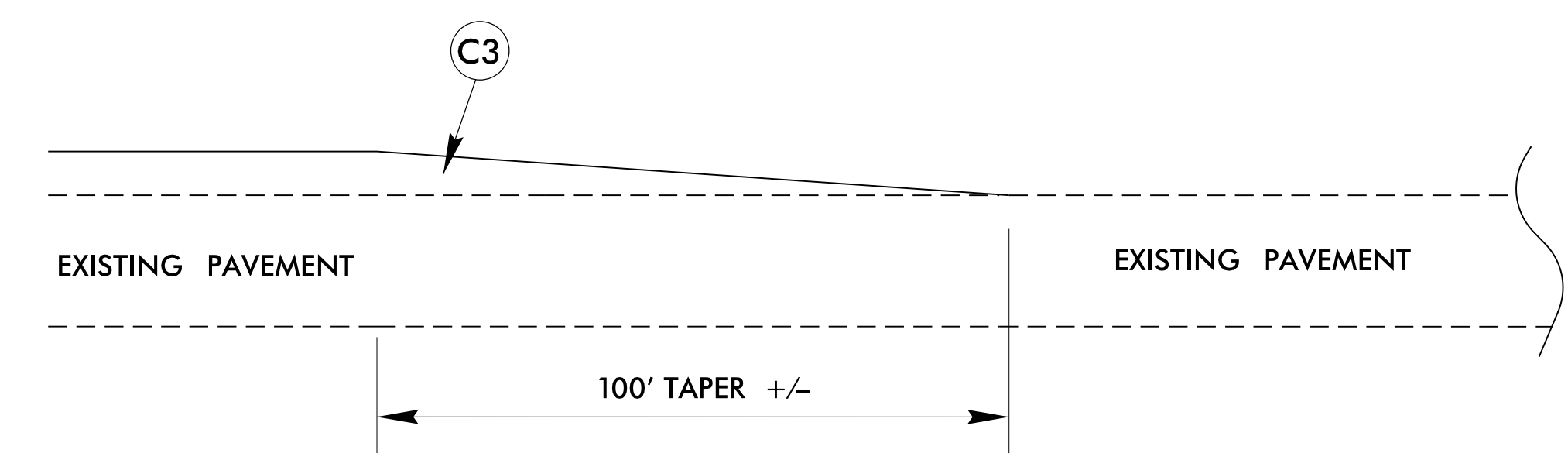
PROJECT REFERENCE NO. 1-6003	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1
-L- M.M. 175.48 TO M.M. 179.12



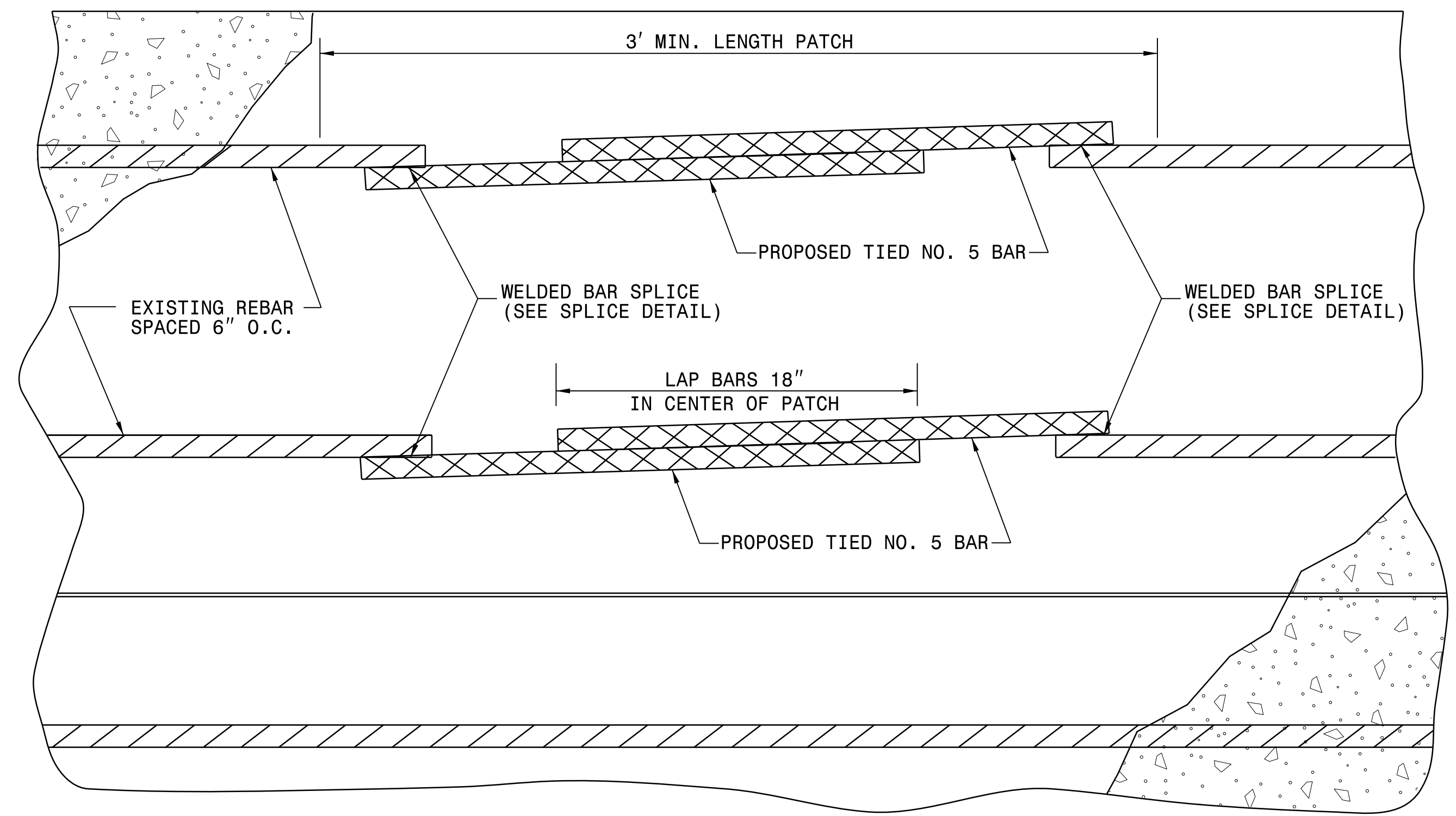
**DETAIL SHOWING TAPERING
AND TIE-INS AT REST AREA RAMPS**



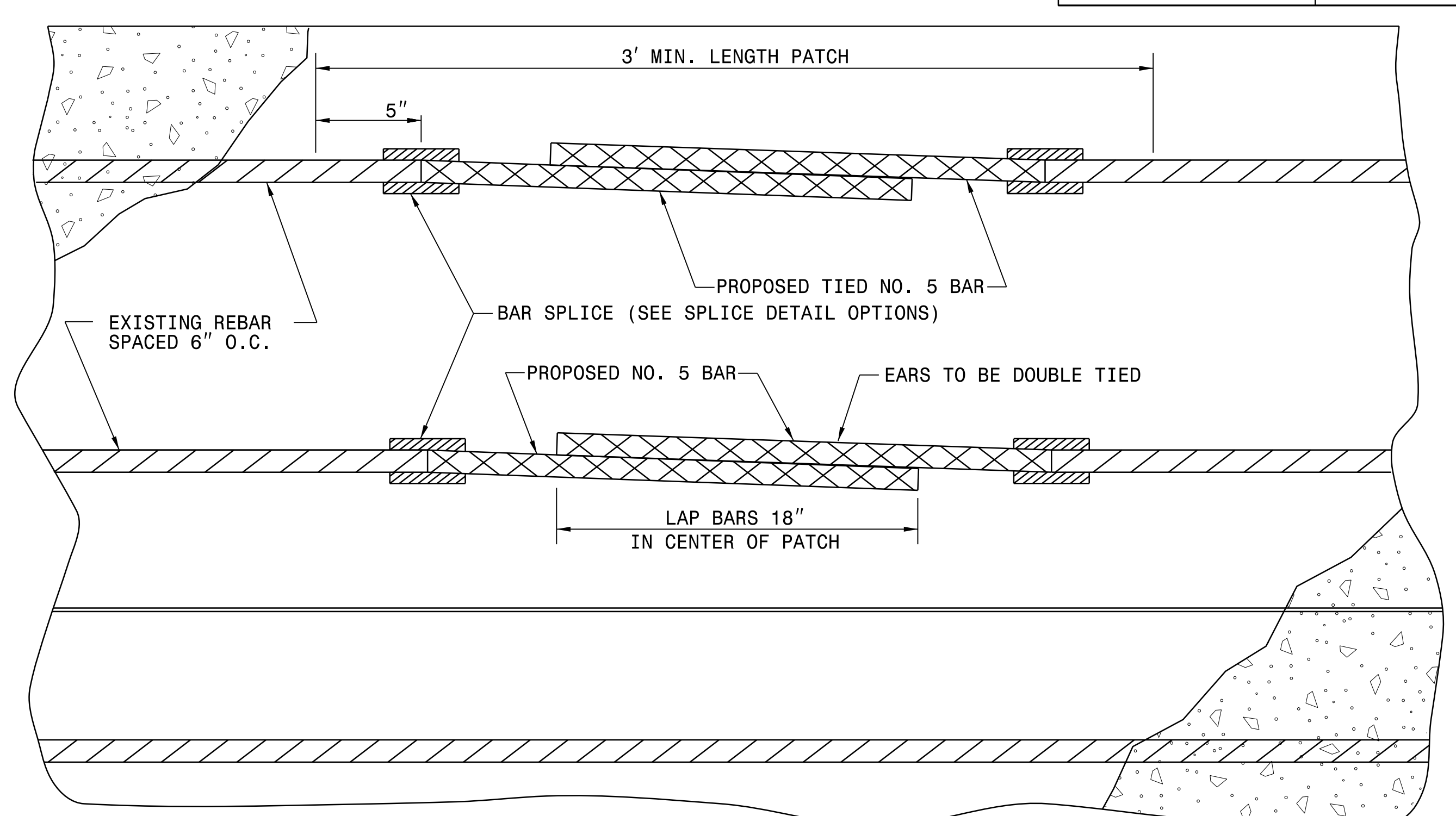
**DETAIL SHOWING TEMPORARY TAPERING
AND TIE-INS DURING CONSTRUCTION**

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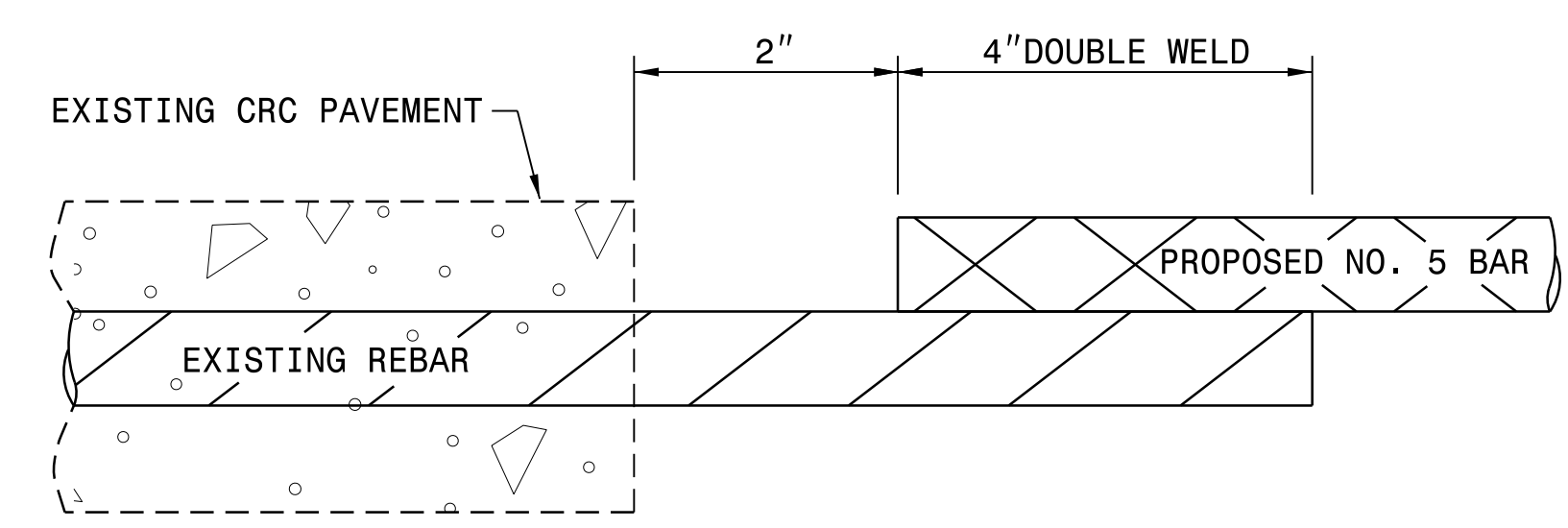
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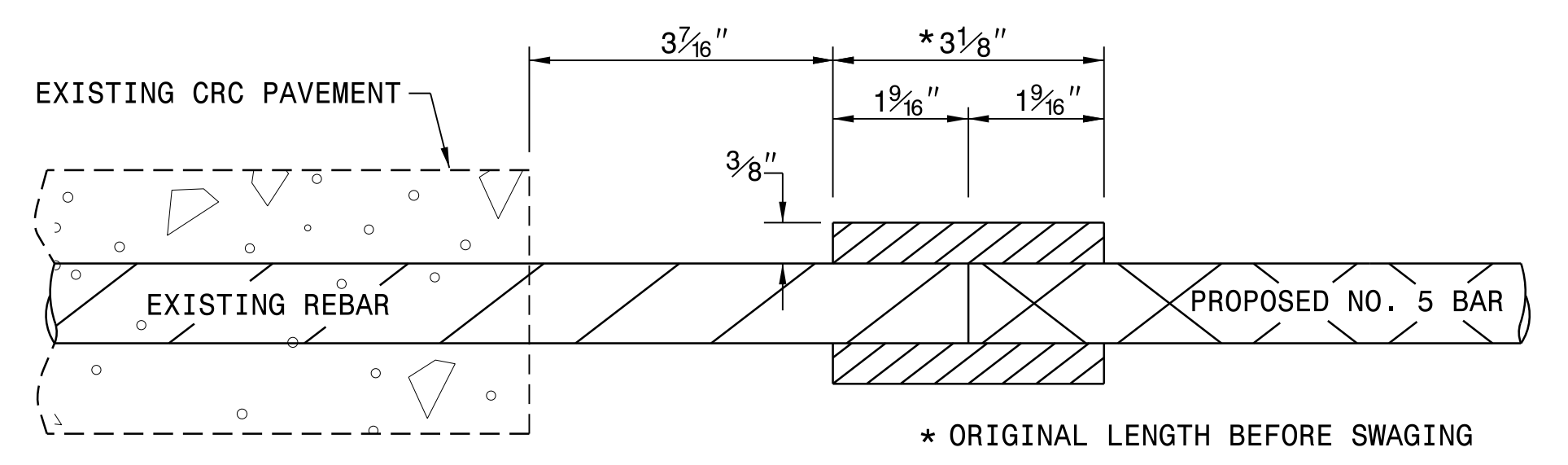
PLAN



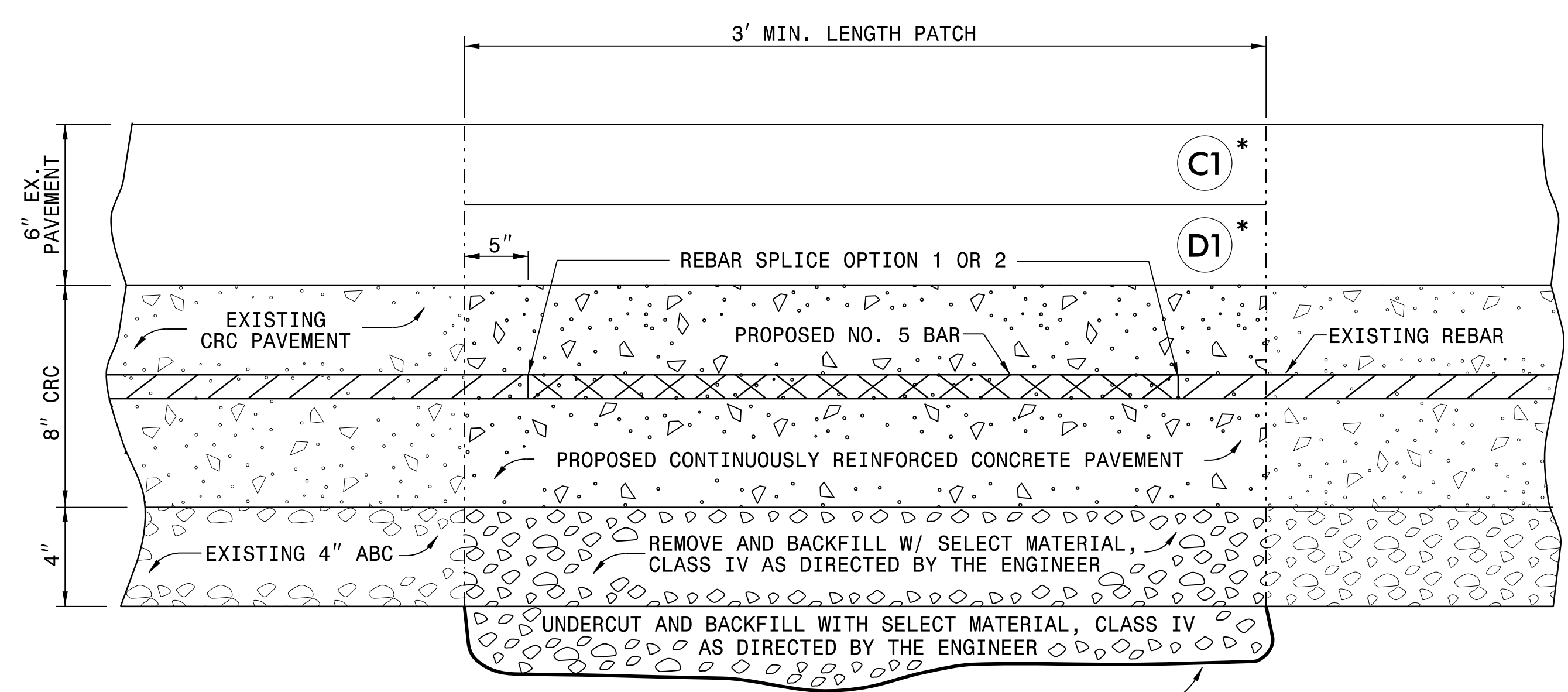
PLAN



OPTION 1 - DETAIL OF WELDED SPLICE

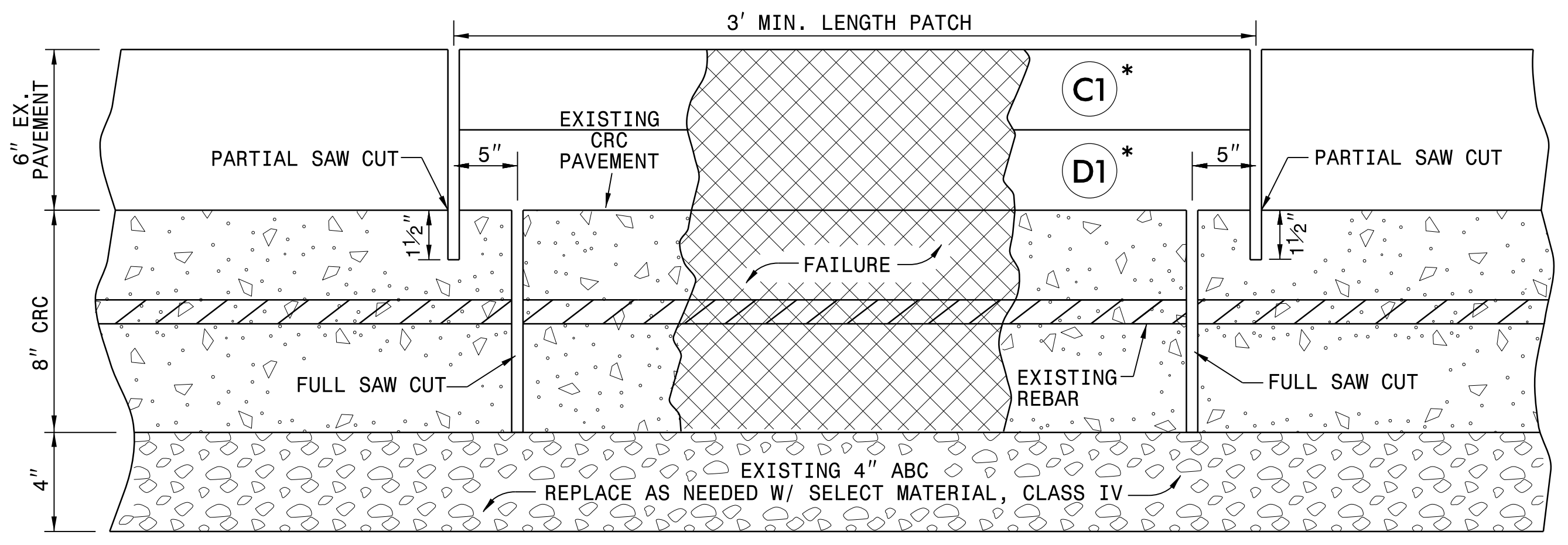


OPTION 2 - DETAIL OF MECHANICAL SPLICE



DETAIL OF CONCRETE PAVEMENT REMOVAL AND REPLACEMENT

* NOTE: SEE PAVEMENT SCHEDULE ON 2A-1



* NOTE: SEE PAVEMENT SCHEDULE ON 2A-1

DETAIL OF SAW CUTS

PLACE BAR SUPPORTS ON 5' CENTERS FOR PATCHES GREATER THAN 10' IN LENGTH AND AT CENTER OF PATCH FOR REPAIRS LESS THAN 10'. HEIGHT OF SUPPORTS DETERMINED BY THE CONTRACTOR.

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
DETAIL FOR REPAIR OF CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	
ORIGINAL BY: E.E. WARD	DATE: 4-98
MODIFIED BY: JSH	DATE: 6-13
CHECKED BY:	DATE:
FILE SPEC.: usr/details/stand/crcrepair.dgn	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

I-6003 CRCP REPAIR LOCATIONS

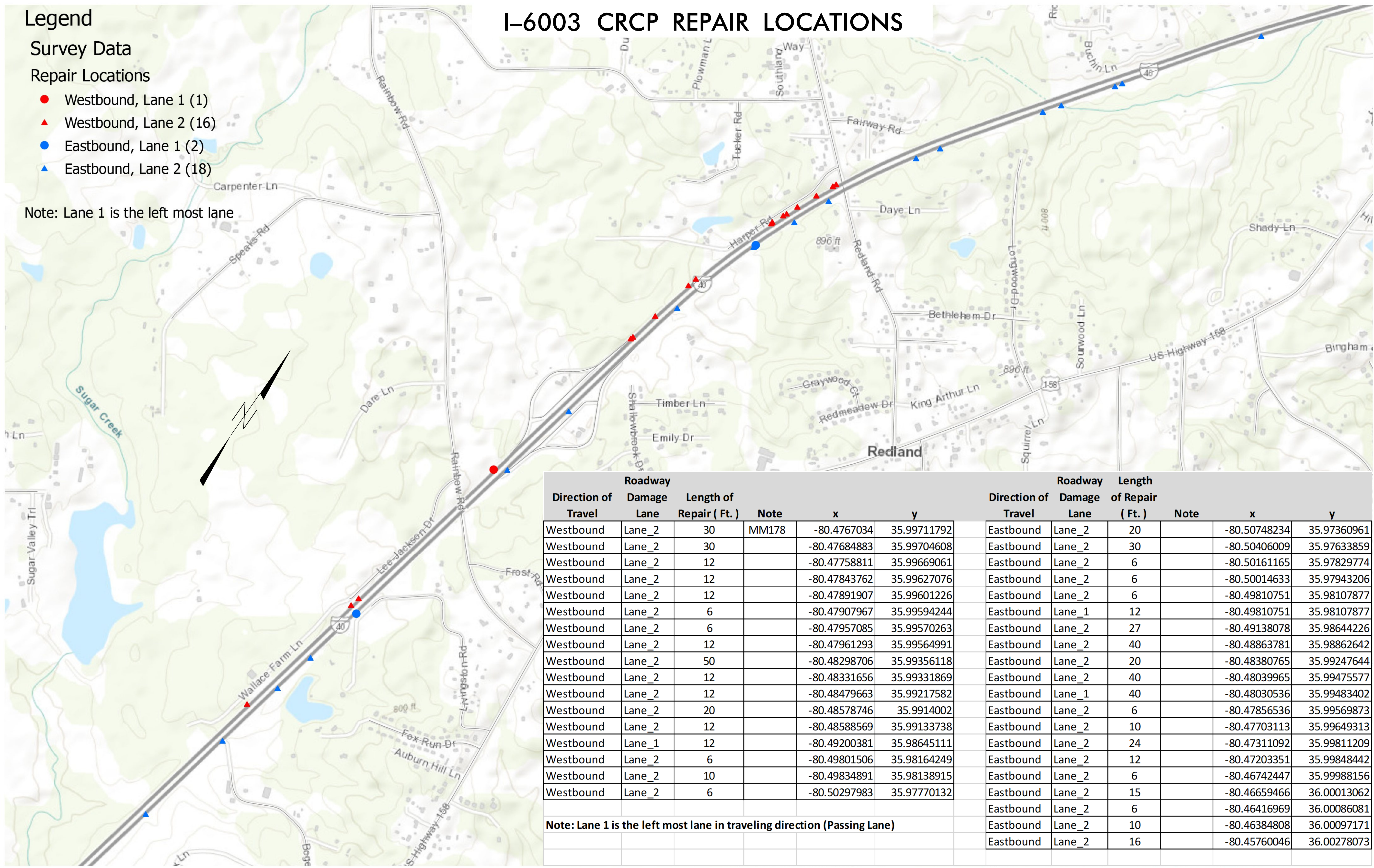
Legend

Survey Data

Repair Locations

- Westbound, Lane 1 (1)
- ▲ Westbound, Lane 2 (16)
- Eastbound, Lane 1 (2)
- ▲ Eastbound, Lane 2 (18)

Note: Lane 1 is the left most lane



Roadway						Roadway					
Direction of Travel	Damage Lane	Length of Repair (Ft.)	Note	x	y	Direction of Travel	Damage Lane	Length of Repair (Ft.)	Note	x	y
Westbound	Lane_2	30	MM178	-80.4767034	35.99711792	Eastbound	Lane_2	20		-80.50748234	35.97360961
Westbound	Lane_2	30		-80.47684883	35.99704608	Eastbound	Lane_2	30		-80.50406009	35.97633859
Westbound	Lane_2	12		-80.47758811	35.99669061	Eastbound	Lane_2	6		-80.50161165	35.97829774
Westbound	Lane_2	12		-80.47843762	35.99627076	Eastbound	Lane_2	6		-80.50014633	35.97943206
Westbound	Lane_2	12		-80.47891907	35.99601226	Eastbound	Lane_2	6		-80.49810751	35.98107877
Westbound	Lane_2	6		-80.47907967	35.99594244	Eastbound	Lane_1	12		-80.49810751	35.98107877
Westbound	Lane_2	6		-80.47957085	35.99570263	Eastbound	Lane_2	27		-80.49138078	35.98644226
Westbound	Lane_2	12		-80.47961293	35.99564991	Eastbound	Lane_2	40		-80.48863781	35.98862642
Westbound	Lane_2	50		-80.48298706	35.99356118	Eastbound	Lane_2	20		-80.48380765	35.99247644
Westbound	Lane_2	12		-80.48331656	35.99331869	Eastbound	Lane_2	40		-80.48039965	35.99475577
Westbound	Lane_2	12		-80.48479663	35.99217582	Eastbound	Lane_1	40		-80.48030536	35.99483402
Westbound	Lane_2	20		-80.48578746	35.9914002	Eastbound	Lane_2	6		-80.47856536	35.99569873
Westbound	Lane_2	12		-80.48588569	35.99133738	Eastbound	Lane_2	10		-80.47703113	35.99649313
Westbound	Lane_1	12		-80.49200381	35.98645111	Eastbound	Lane_2	24		-80.47311092	35.99811209
Westbound	Lane_2	6		-80.49801506	35.98164249	Eastbound	Lane_2	12		-80.47203351	35.99848442
Westbound	Lane_2	10		-80.49834891	35.98138915	Eastbound	Lane_2	6		-80.46742447	35.99988156
Westbound	Lane_2	6		-80.50297983	35.97770132	Eastbound	Lane_2	15		-80.46659466	36.00013062
						Eastbound	Lane_2	6		-80.46416969	36.00086081
						Eastbound	Lane_2	10		-80.46384808	36.00097171
						Eastbound	Lane_2	16		-80.45760046	36.00278073

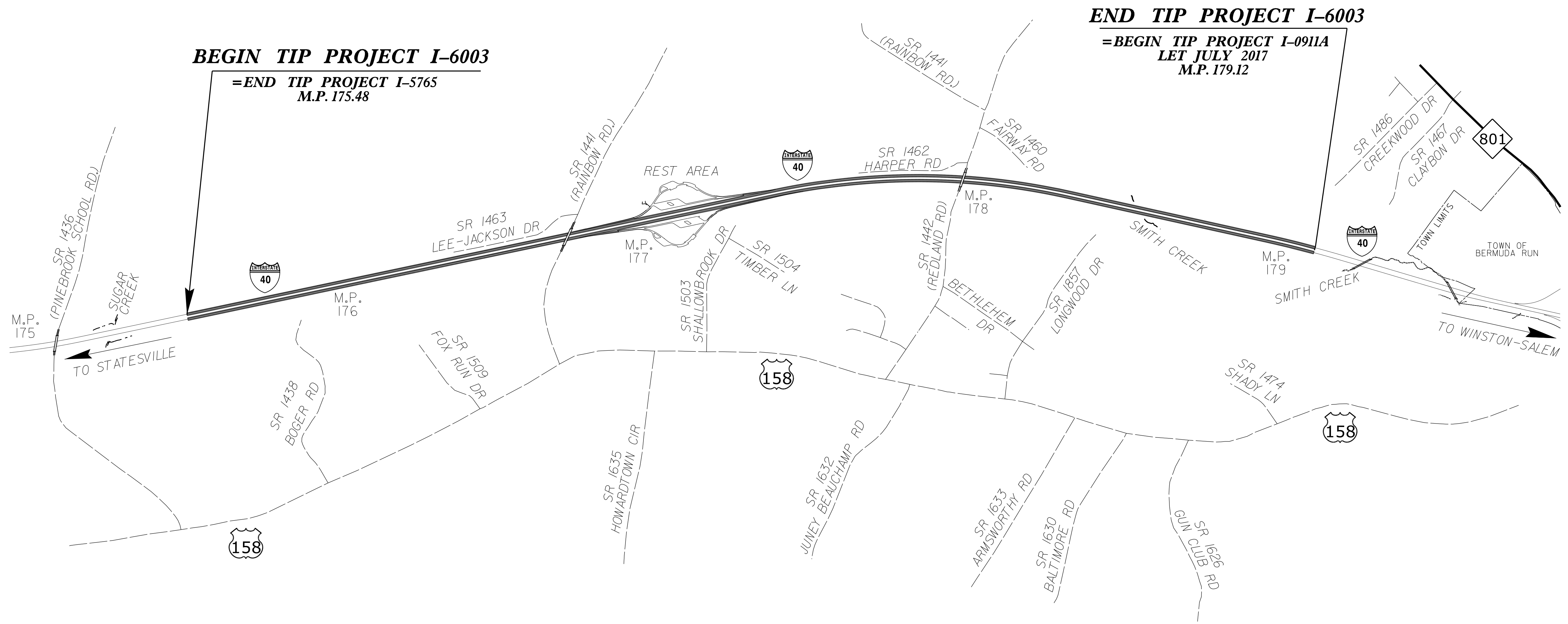
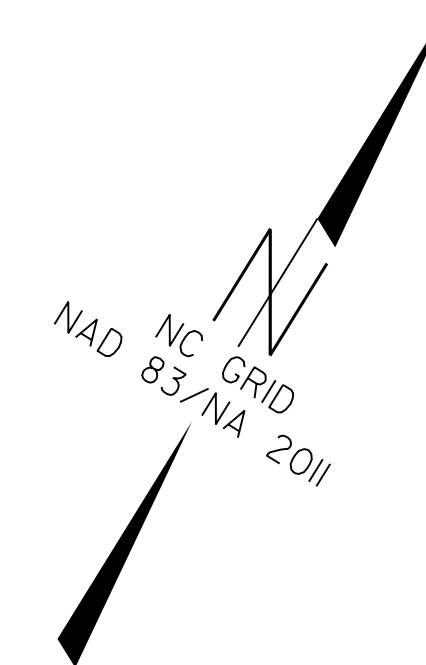
Note: Lane 1 is the left most lane in traveling direction (Passing Lane)

REMOVAL OF 8" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT SLABS: 817 SY

5/28/99

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PROJECT REFERENCE NO.		SHEET NO.	
I-6003		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



BEGIN TIP PROJECT I-6003

=END TIP PROJECT I-5765
M.P. 175.48

END TIP PROJECT I-6003

=BEGIN TIP PROJECT I-0911A
LET JULY 2017
M.P. 179.12

I-40 East Bound & West Bound
Complete concrete slab repairs
Mill travel lanes at 3" depth
Pave back with 3" S9.5D.
Mill asphalt shoulders at 1-1/2" depth
Pave back with 1-1/2" S9.5D.
MAINTAIN EXISTING CLEARANCE
AT ALL BRIDGES

Rest Area Ramps (Asphalt Portion Only)
East Bound & West Bound
Mill travel lanes at 3" depth
Pave back with 3" S9.5D.
Mill asphalt shoulders at 1-1/2" depth
Pave back with 1-1/2" S9.5D.

NOTE: SEE TMP PLANS FOR DETAILED CONSTRUCTION SEQUENCE

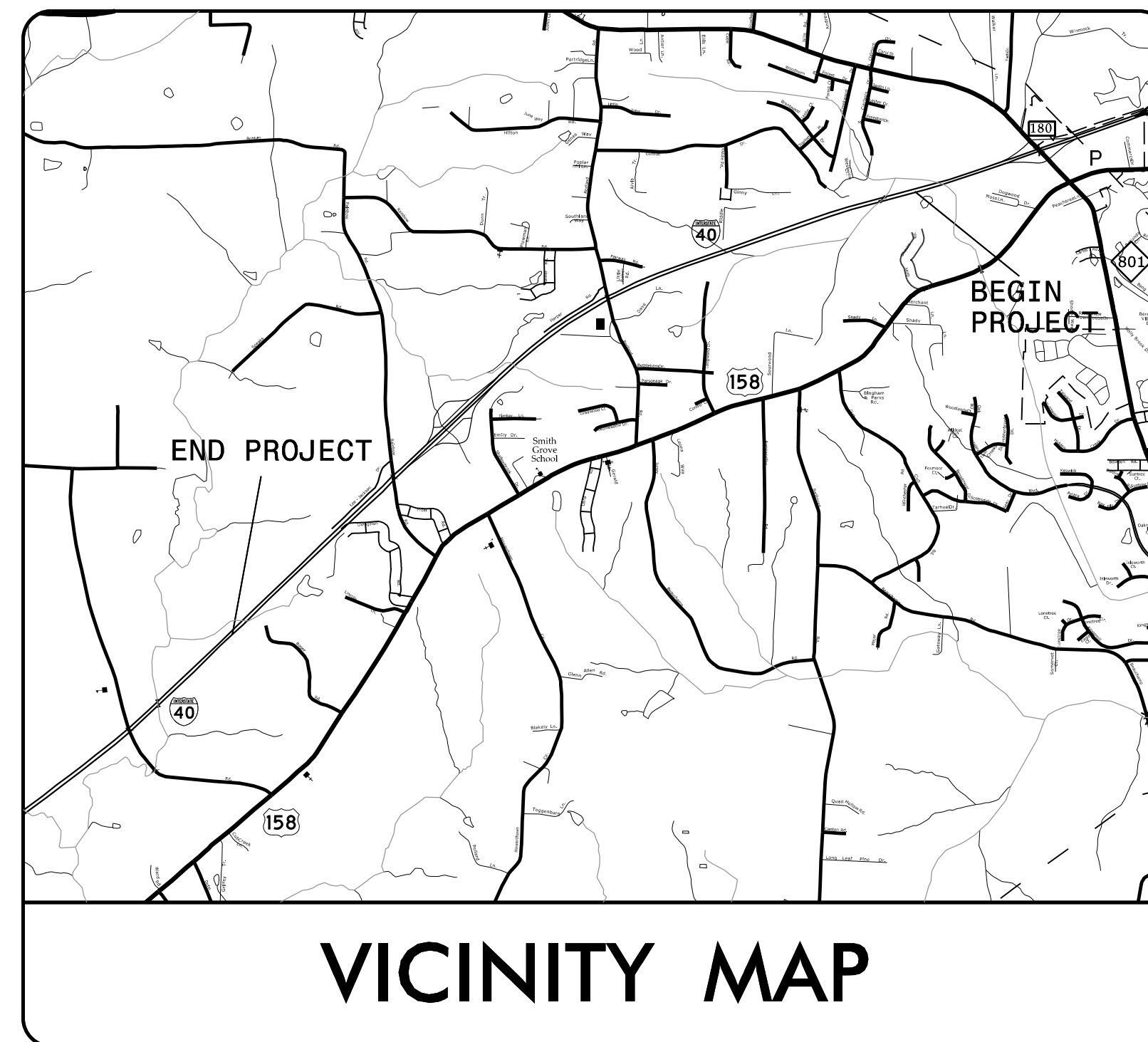
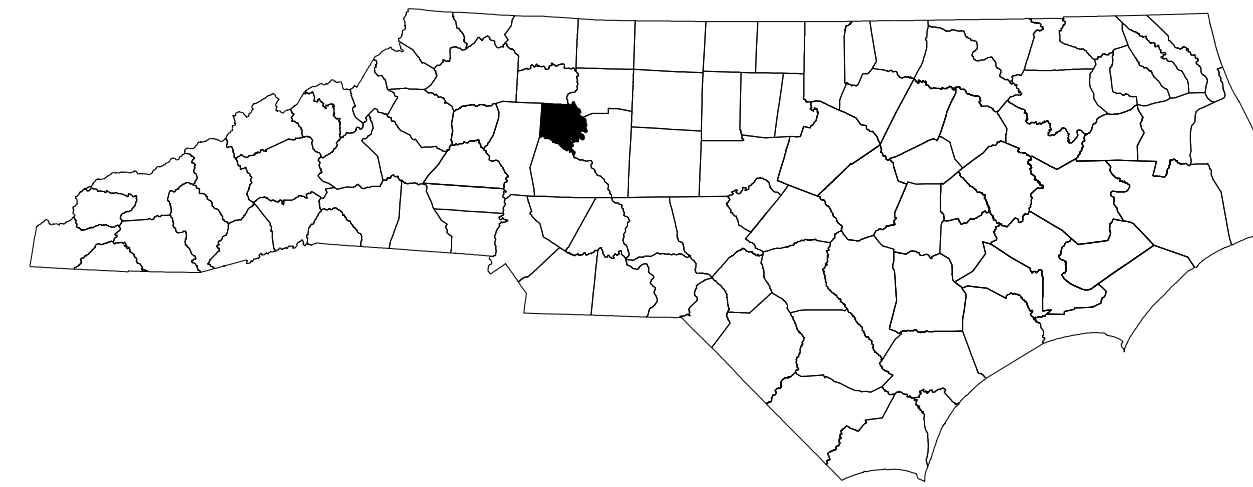
REVISIONS

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

DAVIE COUNTY



VICINITY MAP

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	DYNAMIC ZIPPER MERGE SYSTEM LAYOUT
TMP-2 THRU TMP-2B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-3 THRU TMP-3A	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU TMP-6	SLAB LOCATION OVERVIEW
TMP-7	TYPICALS
TMP-8 AND TMP-9	LONG TERM LANE SHIFT AND SLAB REMOVAL DETAIL
TMP-10	WB REST AREA I-40 ON RAMP DETAIL
TMP-11	WB REST AREA I-40 OFF RAMP DETAIL
TMP-12	REST AREA CLOSURE SIGNS
TMP-13 THRU TMP-15	I-40 WB LEFT LANE CLOSURE DETAIL FOR SLAB 14
TMP-16	I-40 EB RIGHT LANE CLOSURE DETAIL FOR SLAB 24 & 25
TMP-17	I-40 EB RIGHT LANE CLOSURE DETAIL FOR SLAB 26

SHEET NO.
TMP-1

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PLAN PREPARED FOR N.C.D.O.T. BY:



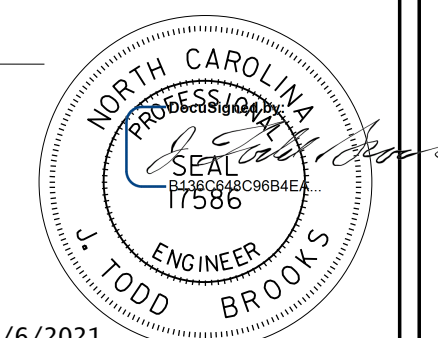
Dewberry

2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

APPROVED: _____

DATE: _____

SEAL



8/6/2021

PLANS PREPARED BY:

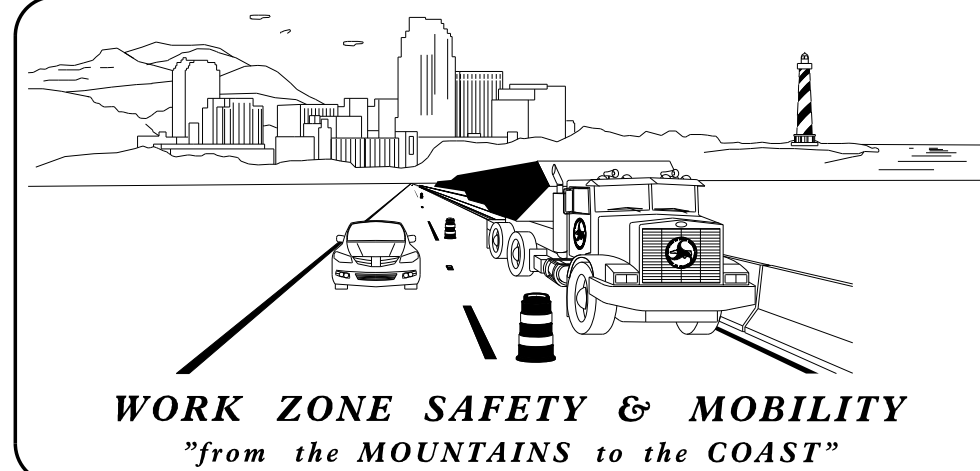
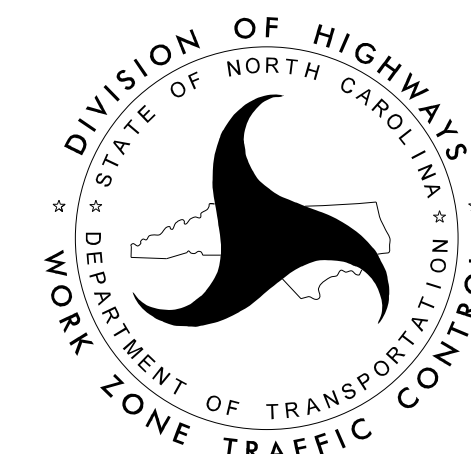
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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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
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	DRUM
1135.01	CONES
1145.01	BARRICADES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

COVER SIGN

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

P20	WHITE EDGELINE	PAINT (6")
P23	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")
P22	10 FT. WHITE SKIP	PAINT (6")
P40	WHITE GORELINE	PAINT (8")

PAVEMENT MARKING SYMBOLS AND CHARACTERS

P79	PAINT MERGE ARROW	PAINT
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TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM WITH SEQUENTIAL FLASHING WARNING LIGHTS
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

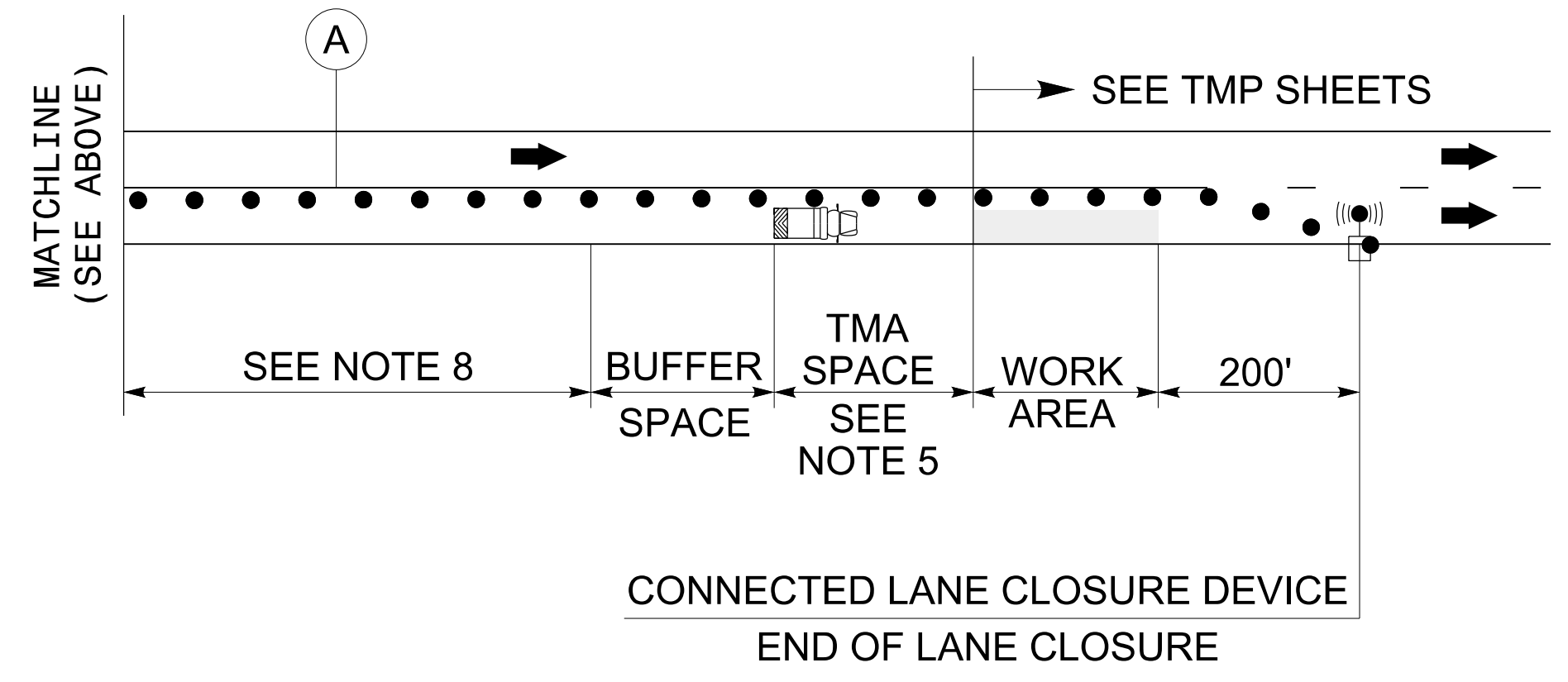
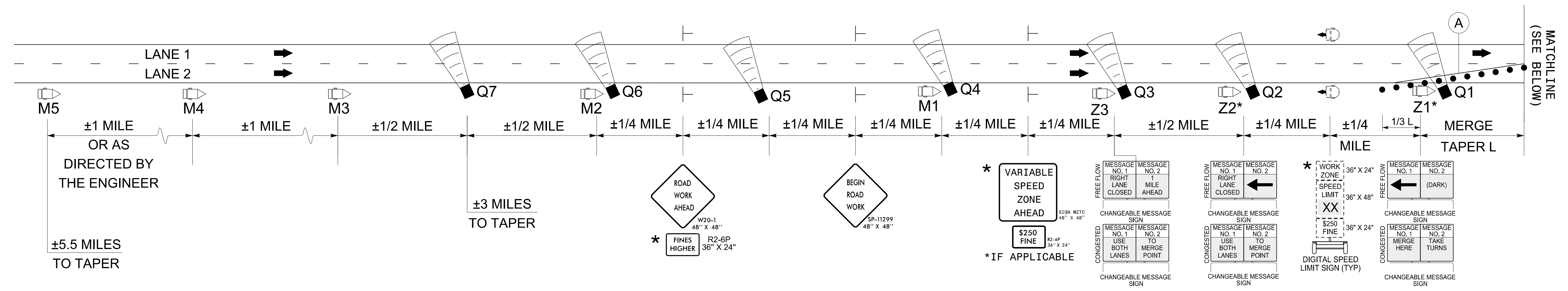
PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

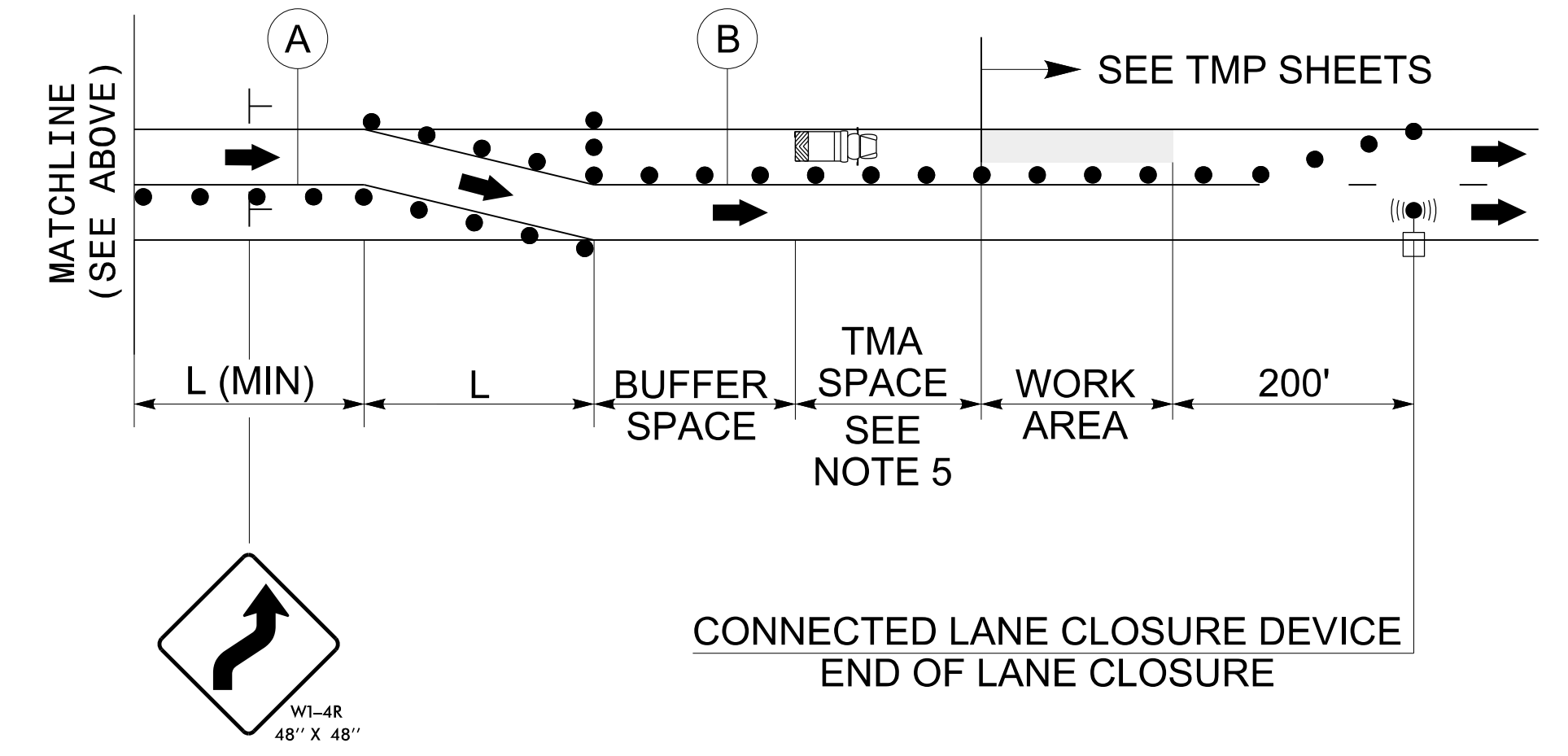
PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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RIGHT LANE WORK AREA



LEFT LANE WORK AREA * (IF APPLICABLE)

GENERAL NOTES

- 1- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE WORK AREA AT THE MAXIMUM SPACING EQUAL TO 2 TIMES THE POSTED SPEED LIMIT.
- 2- REFER TO RSD. 1101.11, SHEETS 1 & 2, FOR "L" DISTANCE AND BUFFER SPACE.
- 3- REFER TO RSD. 1101.02, SHEETS 9 & 10, FOR TREATMENT OF LANE CLOSURES THRU INTERCHANGES.
- 4- INSTALL LANE CLOSURES WITH THE FLOW OF TRAFFIC, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE FLOW OF TRAFFIC, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
5. POSITION THE TMAS TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER AND CONTINUOUSLY ADVANCE TMAS AS WORK PROGRESSES. USE TMAS AS REQUIRED TO SHIELD WORKERS FROM ERRANT VEHICLES AND TRAFFIC FROM POTENTIAL HAZARDS IN THE WORK AREA.
6. REMOVE OR COVER EXISTING ADVANCED WARNING SIGNS PREVIOUSLY INSTALLED USING RSD 1101.01, SHEET 2 OF 3.
7. IN THE EVENT OF A SYSTEM MALFUNCTION, IMMEDIATELY INSTALL WORK ZONE SIGNS ACCORDING TO RSD 1101.02, SHEET 4. SIGNAGE SHOULD REMAIN IN PLACE UNTIL SYSTEM OPERATION IS FULLY RESTORED.
8. IF A LEFT LANE WORK AREA WILL BE NEEDED AT ANY TIME DURING THE PROJECT, USE 2L. IF NO LEFT LANE WORK AREA IS NEEDED, OMIT THIS SPACE.
9. REMOVE ANY CONFLICTING PAVEMENT MARKINGS & MARKERS.
10. APPROVAL FROM THE STATE TRAFFIC MANAGEMENT ENGINEER IS REQUIRED FOR THE IMPLEMENTATION OF ANY DYNAMIC ZIPPER MERGE SYSTEM. CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION FOR ADDITIONAL INFORMATION.

LEGEND

- SPEED SENSOR Q#(1-7)
- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)
M#(1-5) = MAINLINE
Z#(1-3) = ZIPPER MERGE
*Z1 & Z2 SHALL BE FULL MATRIX
- CONNECTED LANE CLOSURE DEVICE
- DRUM
- TRUCK MOUNTED ATTENUATOR (TMA)
- STATIONARY SIGN

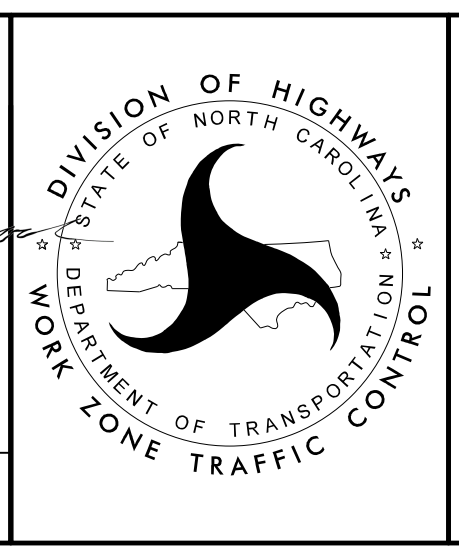
- (A) 6" WHITE EDGELINE
- (B) 6" YELLOW EDGELINE

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DYNAMIC ZIPPER MERGE SYSTEM LAYOUT

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MANAGEMENT STRATEGIES

THE PURPOSE OF THIS PROJECT IS TO REHAB AND REPLACE 37 SLABS ON I-40 FROM SR 1436 (PINEBROOK DRIVE) (MILEPOST 175.48) TO WEST OF NC 801 (MILEPOST 179.12)

PHASE I: I-40 WESTBOUND

IN STEP 2, ALL WORK ON I-40 THAT REQUIRES LANE CLOSURES WILL UTILIZE A VARIABLE SPEED LIMIT REDUCTION WITH \$250 PENALTY.

- WESTBOUND TRAFFIC WILL BE MAINTAINED USING OVERNIGHT LANE CLOSURES TO MILL-OFF THE EXISTING RUMBLE STRIP ON THE INSIDE SHOULDER. RETURN I-40 WB TRAFFIC TO EXISTING PATTERN DURING THE DAY.

IN STEPS 3 THROUGH 7, A STATIONARY SPEED LIMIT REDUCTION AND \$250 PENALTY WILL BE UTILIZED.

- WESTBOUND TRAFFIC WILL BE PLACED IN A 1-LANE LONG TERM PATTERN ON THE INSIDE SHOULDER OF I-40 WHILE SLABS IN THE OUTSIDE LANE ARE REMOVED AND REPLACED BEHIND PORTABLE CONCRETE BARRIER (P.C.B.).
- ONCE WESTBOUND OUTSIDE LANE SLABS HAVE BEEN REPLACED, PLACE TRAFFIC BACK IN ORIGINAL TWO-LANE PATTERN. USING EXTENDED LEFT LANE CLOSURE, REPLACE SLAB 14 IN THE INSIDE LANE.

PHASE 2: I-40 EASTBOUND

IN STEP 2, ALL WORK ON I-40 THAT REQUIRES LANE CLOSURES WILL UTILIZE A VARIABLE SPEED LIMIT REDUCTION WITH \$250 PENALTY.

- EASTBOUND TRAFFIC WILL BE MAINTAINED USING WEEKDAY LANE CLOSURES TO MILL-OFF THE EXISTING RUMBLE STRIP ON THE INSIDE SHOULDER. RETURN I-40 EB TRAFFIC TO EXISTING PATTERN DURING WEEKENDS.

IN STEPS 3 THROUGH 7, A STATIONARY SPEED LIMIT REDUCTION AND \$250 PENALTY WILL BE UTILIZED.

- EASTBOUND TRAFFIC WILL BE PLACED IN A 1-LANE LONG TERM PATTERN ON THE INSIDE SHOULDER OF I-40 WHILE SLABS IN THE OUTSIDE LANE ARE REMOVED AND REPLACED BEHIND P.C.B..
- ONCE EASTBOUND OUTSIDE LANE SLABS HAVE BEEN REPLACED, PLACE TRAFFIC BACK IN ORIGINAL TWO-LANE PATTERN. USING EXTENDED LEFT LANE CLOSURE, REPLACE SLABS 23 AND 28 IN THE INSIDE LANE.

PHASE 3: I-40 EASTBOUND AND WESTBOUND

TRAFFIC WILL BE MAINTAINED USING OVERNIGHT ALTERNATING LANE CLOSURES TO MILL AND RESURFACE THE SHOULDERS AND TRAVEL LANES AND PLACE THE FINAL MARKINGS AND RUMBLE STRIPS. REOPEN ALL LANES AND RETURN I-40 TRAFFIC TO EXISTING PATTERN BY THE END OF EACH OVERNIGHT WORK PERIOD.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40 EASTBOUND AND ALL RAMPS	MONDAY THRU SUNDAY, 5:00 AM TO 6:00 PM
I-40 WESTBOUND AND ALL RAMPS	MONDAY THRU SUNDAY, 7:00 AM TO 7:00 PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
I-40 AND ALL RAMPS
HOLIDAY
1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00 AM DECEMBER 30TH TO 7:00 PM JANUARY 3RD. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 PM THE FOLLOWING WEDNESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 5:00 AM THURSDAY AND 7:00 PM TUESDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 AM FRIDAY TO 7:00 PM WEDNESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 7:00 PM TWO DAYS AFTER INDEPENDENCE DAY.
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 5:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE WEDNESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 AM FRIDAY AND 7:00 PM WEDNESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 AM TUESDAY AND 7:00 PM TUESDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 PM THE FOLLOWING WEDNESDAY AFTER THE WEEK OF CHRISTMAS.

(CONTINUED ON TMP-2A)

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GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
I-6003	TMP-2A

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
I-40 AND ALL RAMPS	MONDAY THRU SUNDAY, 5:00 AM TO 12:00 AM	15 MINUTES /TRAFFIC SHIFTS

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVEL WAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE IS CLOSURE IS INSTALLED.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1102.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAINS WITHIN THE CLOSED TRAVEL LANE.
- I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON I-40.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- K) BACKFILL AT 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS - CONT.

L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 1000 FT. IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

M) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 1000 FT. IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

Q) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN AN CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

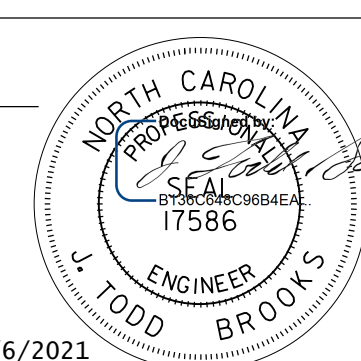
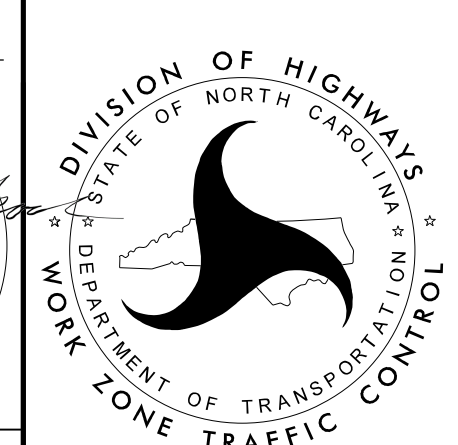
INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

(CONTINUED ON TMP-2B)

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GENERAL NOTES

TRAFFIC BARRIER

- R) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH OR HIGHER	30 FT

TRAFFIC CONTROL DEVICES

- S) WHEN LANE CLOSURES ARE NOT IN EFFECT, SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPENED TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

- T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE THE ENTIRE ROADWAY.

- U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- V) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
I-40 AND ALL RAMPS	PAINT	TEMPORARY RAISED

- W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

- X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- Y) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- Z) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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PHASING

PHASE I

STEP 1: USING RSD 1101.01, SHEET 1 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON I-40 WEST, FROM SR 1436 (PINEBROOK DRIVE) MP 175.48 TO WEST OF NC 801 MP 179.12.

PRIOR TO BEGINNING ANY CONSTRUCTION, ENSURE STATE FORCES HAVE INSTALLED CMS'S FOR THE I-40 ALTERNATE ROUTE. STATE FORCES WILL BE RESPONSIBLE FOR OPERATING CMS'S AND DMS'S FOR I-40 ALTERNATE ROUTES.

STEP 2: USING RSD 1101.02, SHEET 4 OF 14 AND NIGHTLY LANE CLOSURES, MILL OFF AND RESURFACE RUMBLE STRIPS ON I-40 WB MEDIAN SHOULDER. WORK IN CONTINUOUS MANNER UNTIL ALL OF THE MEDIAN SHOULDER WORK ON I-40 WB WITHIN THE VICINITY OF THE PROJECT IS COMPLETED. (SEE TMP-7 I-40 WB CONSTRUCTION DETAIL-1)

INSTALL QUEUE WARNING SYSTEM SYSTEM AND DYNAMIC ZIPPER MERGE SYSTEM FOR RIGHT LANE CLOSURE IN PHASE I, STEPS 3 THRU 8. (SEE PROJECT SPECIAL PROVISIONS)

THE CONTRACTOR SHALL COMPLETE PHASE I, STEPS 3 THROUGH 10 WITHIN FORTY-FIVE (45) CALENDAR DAYS. (SEE INTERMEDIATE CONTRACT TIME-LIQUIDATED DAMAGES)

STEP 3: USING RSD 1101.02, SHEET 4, 9 & 10 OF 14, REMOVE EXISTING YELLOW EDGELINE. PLACE TEMPORARY YELLOW AND WHITE EDGELINES AND SHIFT I-40 WB TRAFFIC TO THE TEMPORARY PATTERN USING MEDIAN SHOULDER AS SHOWN ON TMP-7, I-40 WB CONSTRUCTION DETAIL 2.

SET UP LONG TERM OUTSIDE LANE CLOSURE USING PORTABLE CONCRETE BARRIER AND DRUMS AS SHOWN ON TMP-8.

NOTE: PLACE DRUMS SPACED 60 FT C-C TO MAINTAIN OUTSIDE LANE CLOSURE BETWEEN SEGMENTS OF PORTABLE CONCRETE BARRIER.

STEP 4: BEHIND CONCRETE BARRIER AND DRUMS, BEGIN THE FOLLOWING STARTING FROM THE WEST END OF THE PROJECT GOING TOWARDS THE EAST END:

- PERFORMING CONCRETE PAVEMENT REMOVAL AND REPLACEMENT IN THE OUTSIDE LANE (SEGMENTS 1, 2 & 5). START CONSTRUCTION AT THE WEST END OF THE CONSTRUCTION ZONE (SEGMENT-1) AND MOVE EASTWARD BACK TOWARD THE BEGINNING OF THE LANE CLOSURE (SEGMENT-5).
- MILLING OF AND RESURFACING RUMBLE STRIP ON I-40 WB OUTSIDE LANE ONLY IN SEGMENT-3.
- AFTER EACH SEGMENT COMPLETION, INSTALL TEMPORARY PAINT MARKINGS (1 LAYER) ON SLAB REPLACEMENT AREA, REMOVE PCB, AND REOPEN CLOSED LANE IN THAT SEGMENT TO TRAFFIC.

THE CONTRACTOR SHALL COMPLETE PHASE I, STEPS 5 THROUGH 7 WITHIN TEN (10) CALENDAR DAYS. (SEE INTERMEDIATE CONTRACT TIME-LIQUIDATED DAMAGES)

STEP 5: TEMPORARILY CLOSE THE I-40 WB REST AREA ENTRANCE AS SHOWN IN DETAIL 2 ON TMP-11, BY EXTENDING PORTABLE CONCRETE BARRIER ACROSS THE EXIST RAMP TO THE REST AREA, TEMPORARILY COVERING REST AREA GUIDE SIGNS AS SHOWN ON TMP-12, AND INSTALLING AND ACTIVATING ADVANCE CHANGEABLE MESSAGE SIGNS ON I-40 WB AS SHOWN ON TMP-12.

STEP 6: WITH I-20 WB REST AREA CLOSED TO TRAFFIC AND WORKING BEHIND P.C.B., PERFORM SLAB REPLACEMENTS FOR SLABS 11, 12 AND 13 AS SHOWN ON TMP-11.

STEP 7: UPON COMPLETION OF REPLACEMENTS OF SLABS 11, 12 AND 13 AND PATCHING OF ASPHALT PAVEMENT ON TOP OF THEM, PERFORM THE FOLLOWING TO REOPEN THE I-40 WB REST AREA TO TRAFFIC:

- REMOVE P.C.B. BACK TO ITS PRIOR WESTERN TERMINUS AND RESTORE DRUMS IN RAMP GORE AS SHOWN IN DETAIL 1 ON TMP-11
- REMOVE TEMPORARY SIGN COVERINGS FROM REST AREA GUIDE SIGNS
- DEACTIVATE ADVANCE CHAGEABLE MESSAGE SIGNS

STEP 8: COMPLETE ALL SLAB REPLACEMENT WORK BEGUN IN STEP 4.

AFTER COMPLETING CONSTRUCTION ON WB OUTSIDE LANE, REMOVE ANY REMAINING PCB, REVISE PAVEMENT MARKINGS AND RETURN TRAFFIC TO EXISTING PATTERN USING RSD 1101.02, SHEETS 4, 9 & 10.

RELOCATE QUEUE WARNING AND DYNAMIC ZIPPER MERGE SYSTEM FOR LEFT LANE CLOSURE IN PHASE I, STEP 9. (SEE PROJECT SPECIAL PROVISIONS)

STEP 9: USING RSD 1101.02, SHEET 4, 9 & 10 OF 14, PERFORM CONCRETE PAVEMENT REMOVAL AND REPLACEMENT OF THE INSIDE LANE SLAB(SEGMENT-3, SLAB-14) USING LEFT LANE CLOSURE AND DRUMS. (SEE TMP SHEETS 9, 13, 14 & 15).

STEP 10: REVISE MARKINGS TO ORIGINAL TWO-LANE PATTERN AND REOPEN LEFT LANE IN VICINITY OF SLAB 14.

PHASE II

STEP 1: USING RSD 1101.01, SHEET 1 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON I-40 EAST, FROM WEST OF NC 801 MP 179.12 TO SR 1436 (PINEBROOK DRIVE) MP 175.48.

PRIOR TO BEGINNING ANY CONSTRUCTION, ENSURE STATE FORCES HAVE INSTALLED CMS'S FOR THE I-40 ALTERNATE ROUTE. STATE FORCES WILL BE RESPONSIBLE FOR OPERATING CMS'S AND DMS'S FOR I-40 ALTERNATE ROUTES.

STEP 2: USING RSD 1101.02, SHEET 4 OF 14 AND NIGHTLY LANE CLOSURES, MILL OFF AND RESURFACE RUMBLE STRIPS ON I-40 EB MEDIAN SHOULDER. WORK IN CONTINUOUS MANNER UNTIL ALL OF THE MEDIAN SHOULDER WORK ON I-40 EB WITHIN THE VICINITY OF THE PROJECT IS COMPLETED. (SEE TMP-7 I-40 EB CONSTRUCTION DETAIL-1)

INSTALL QUEUE WARNING SYSTEM AND DYNAMIC ZIPPER MERGE SYSTEM FOR RIGHT LANE CLOSURE IN PHASE II, STEPS 3 THRU 5. (SEE PROJECT SPECIAL PROVISIONS)

THE CONTRACTOR SHALL COMPLETE PHASE II, STEPS 3 THROUGH 7 WITHIN FORTY-FIVE (45) CALENDAR DAYS. (SEE INTERMEDIATE CONTRACT TIME-LIQUIDATED DAMAGES)

STEP 3: USING RSD 1101.02, SHEET 4, 9 & 10 OF 14, REMOVE EXISTING YELLOW EDGELINE. PLACE TEMPORARY YELLOW AND WHITE EDGELINES AND SHIFT I-40 EB TRAFFIC TO THE TEMPORARY PATTERN USING MEDIAN SHOULDER AS SHOWN ON TMP-7, I-40 EB CONSTRUCTION DETAIL 2.

SET UP LONG TERM OUTSIDE LANE CLOSURE USING PORTABLE CONCRETE BARRIER AND DRUMS AS SHOWN ON TMP-8

NOTE: PLACE DRUMS SPACED 60 FT C-C TO MAINTAIN OUTSIDE LANE CLOSURE BETWEEN SEGMENTS OF PORTABLE CONCRETE BARRIER.

CONTINUED ON SHEET TMP-3A

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User:jmishak



2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9339
NC COA No. F-0929

APPROVED: _____ DATE: _____ SEAL			<h2 style="margin: 0;">PHASING</h2>
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PHASING

CONTINUED FROM SHEET TMP-3

PHASE II - CONT.

- STEP 4: BEHIND CONCRETE BARRIER AND DRUMS, PERFORM THE FOLLOWING STARTING FROM THE EAST END OF THE PROJECT GOING TOWARDS THE WEST END:
- PERFORM CONCRETE PAVEMENT REMOVAL AND REPLACEMENT IN THE OUTSIDE LANE (SEGMENTS-1 THRU 9) REQUIRING CONTRACTOR TO START CONSTRUCTION AT THE EAST END OF THE CONSTRUCTION ZONE (SEGMENT-1) AND MOVE WESTWARD BACK TOWARD THE BEGINNING OF THE LANE CLOSURE (SEGMENT-9).(SEE TMP-16 AND 17 FOR SEGMENT 5 & 6)
 - MILL OFF AND RESURFACE RUMBLE STRIP ON I-40 EB OUTSIDE LANE ONLY IN SEGMENT-4 & 7
 - AFTER EACH SEGMENT COMPLETION, INSTALL TEMPORARY PAINT MARKINGS (1 LAYER) ON SLAB REPLACEMENT AREA, REMOVE PCB, AND REOPEN CLOSED LANE IN THAT SEGMENT TO TRAFFIC.
- STEP 5: AFTER COMPLETING CONSTRUCTION ON WB OUTSIDE LANE, REMOVE ANY REMAINING PCB, REVISE PAVEMENT MARKINGS AND RETURN TRAFFIC TO EXISTING PATTERN USING RSD 1101.02, SHEETS 4, 9 & 10.
- RELOCATE QUEUE WARNING AND DYNAMIC ZIPPER MERGE SYSTEM FOR LEFT LANE CLOSURE IN PHASE II, STEP 6. (SEE PROJECT SPECIAL PROVISIONS)
- STEP 6: USING RSD 1101.02, SHEET 4, 9 & 10 OF 14, PERFORM CONCRETE PAVEMENT REMOVAL AND REPLACEMENT OF THE INSIDE LANE SLABS (SEGMENT-4 SLAB-28 & SEGMENT-7 SLAB-23) USING LEFT LANE CLOSURE. (SEE TMP-9)
- STEP 7: USING RSD 1101.02, SHEETS 4, 9 & 10, REVISE MARKINGS TO ORIGINAL TWO-LANE PATTERN AND REOPEN LEFT LANE IN VICINITY OF SLAB 23.

PHASE III

- STEP 1: USING RSD 1101.02, SHEETS 4, 9 & 10 OF 14, MILL INSIDE AND OUTSIDE SHOULDERS ON I-40 EB & I-40 WB DURING OVERNIGHT PERIODS.
- STEP 2: USING RSD 1101.02, SHEETS 4, 9 & 10 OF 14, MILL TRAVEL LANES AND PAVE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE DURING OVERNIGHT PERIODS.
- STEP 3: USING RSD 1101.02, SHEET 4, 9 & 10 OF 14, COMPLETE THE FOLLOWING DURING OVERNIGHT PERIODS:
- PAVE FINAL LAYER OF SURFACE COURSE
 - PLACE FINAL PAVEMENT MARKINGS & FINAL MARKERS
 - MILL RUMBLE STRIPS INTO MEDIAN AND OUTSIDE SHOULDERS
- STEP 4: REMOVE ALL TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS ON I-40.

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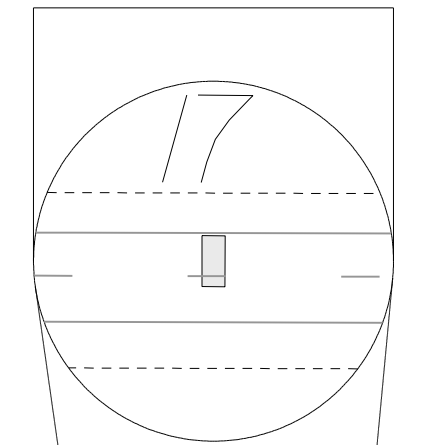


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SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

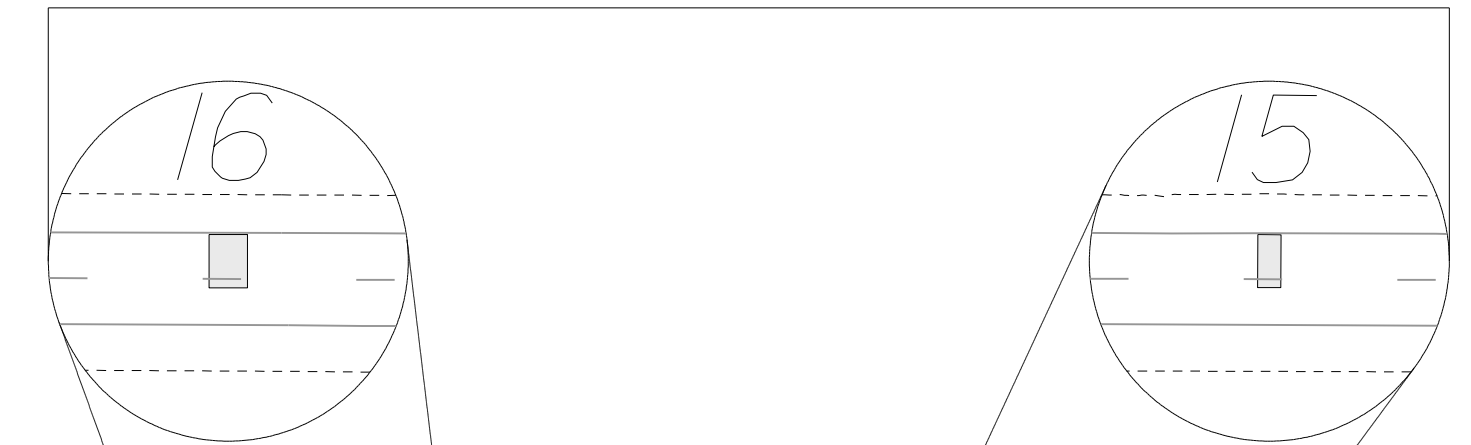
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

WB LANES		
SLAB NO.	LANE	LENGTH OF REPAIR
15	RT	6 FT
16	RT	10 FT
17	RT	6 FT

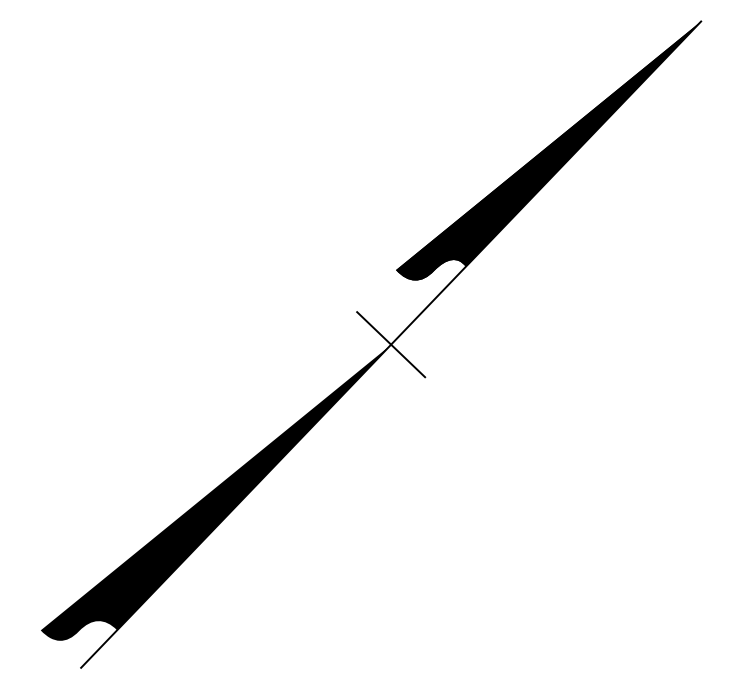
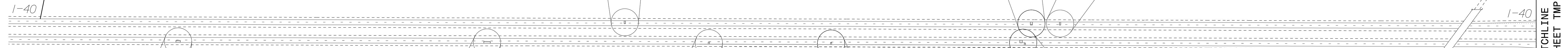
SEGMENT 1 (PCB)



SEGMENT 2 (PCB)

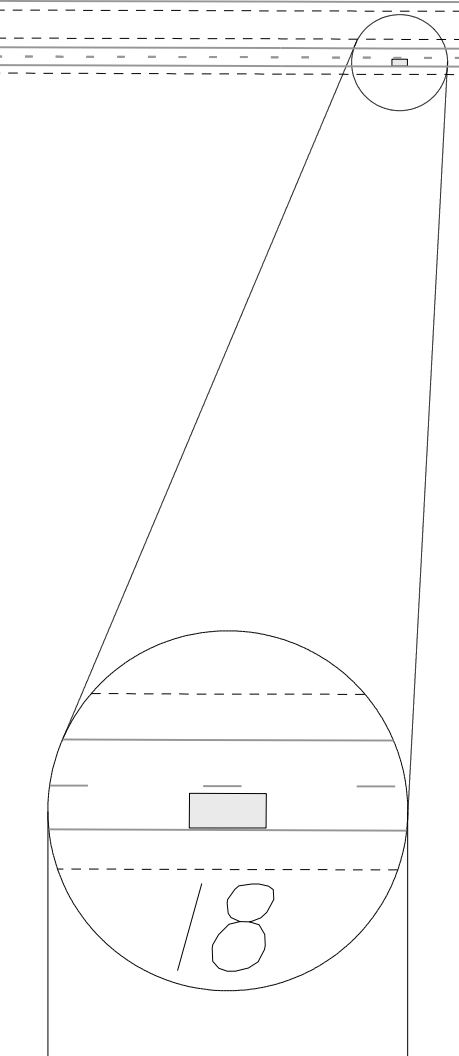


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 =END TIP PROJECT I-5765
 M.P. 175.48

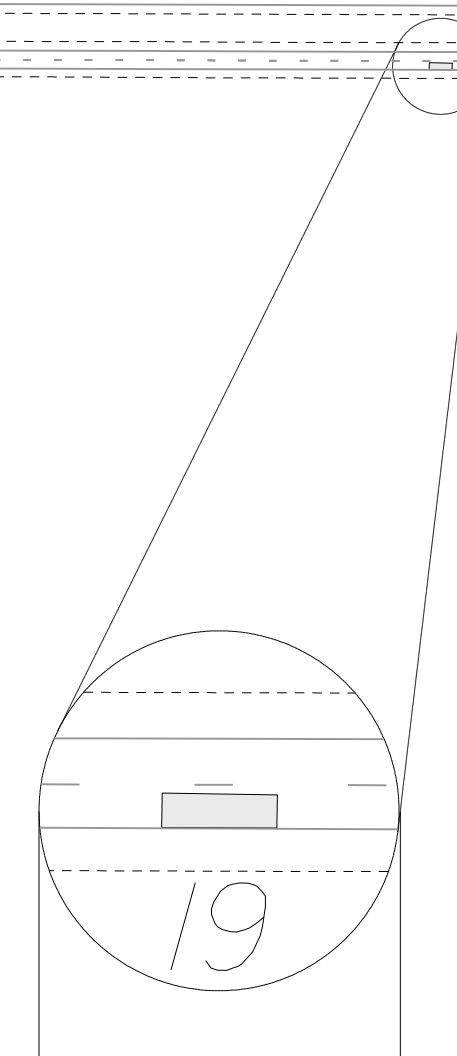


SR 1441
 (RAINBOW RD.)

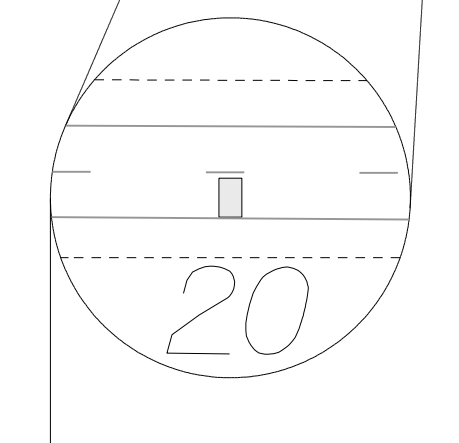
MATCHLINE
 SEE SHEET TMP-5



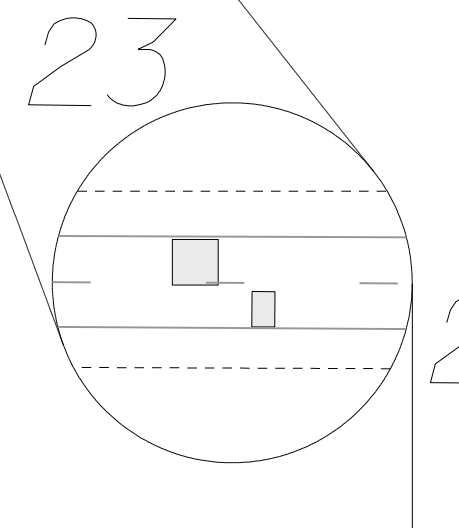
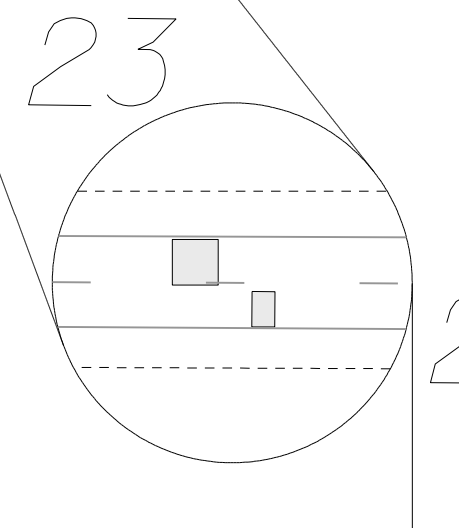
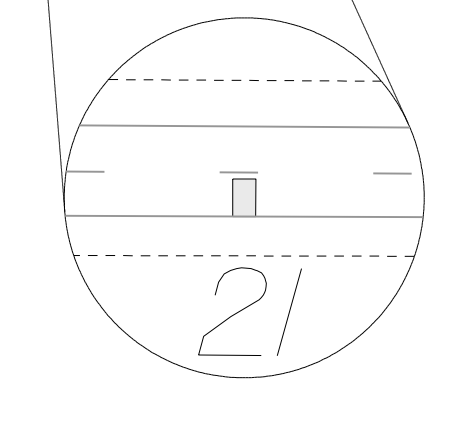
SEGMENT 9 (PCB)



SEGMENT 8 (PCB)



SEGMENT 7 (PCB)
 (SLAB 23 IS NOT INCLUDED)



EB LANES		
SLAB NO.	LANE	LENGTH OF REPAIR
18	RT	20 FT
19	RT	20 FT
20	RT	6 FT
21	RT	6 FT
22	RT	6 FT
23	LT	12 FT

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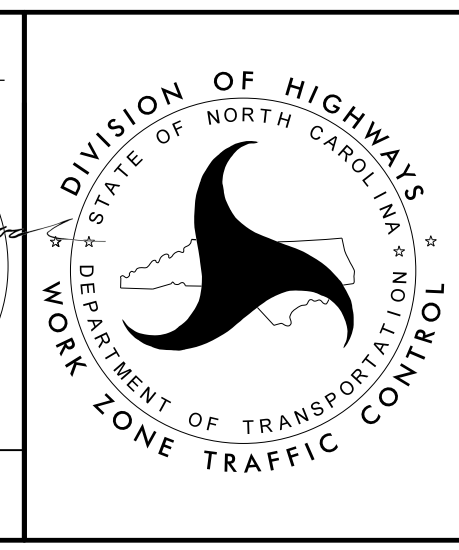


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 PHONE: 919.881.9939
 NC COA No. F-0929

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 DATE: _____

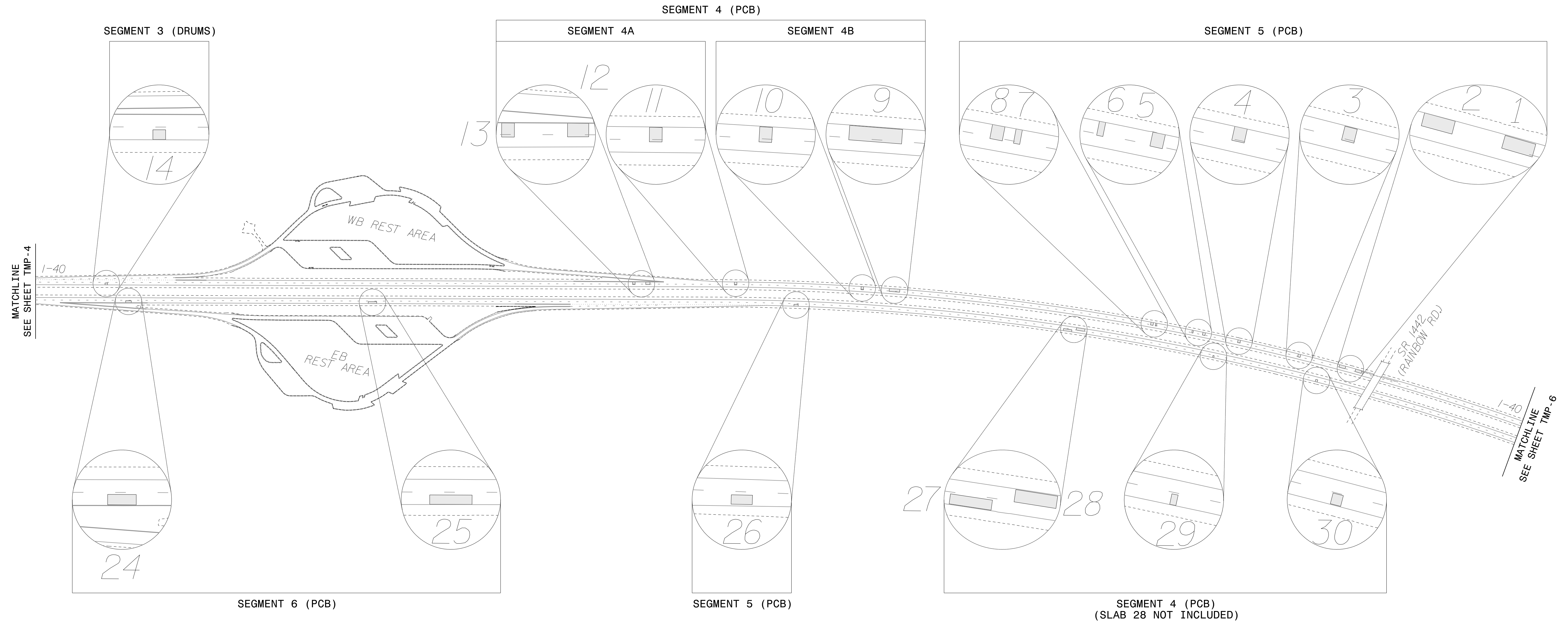
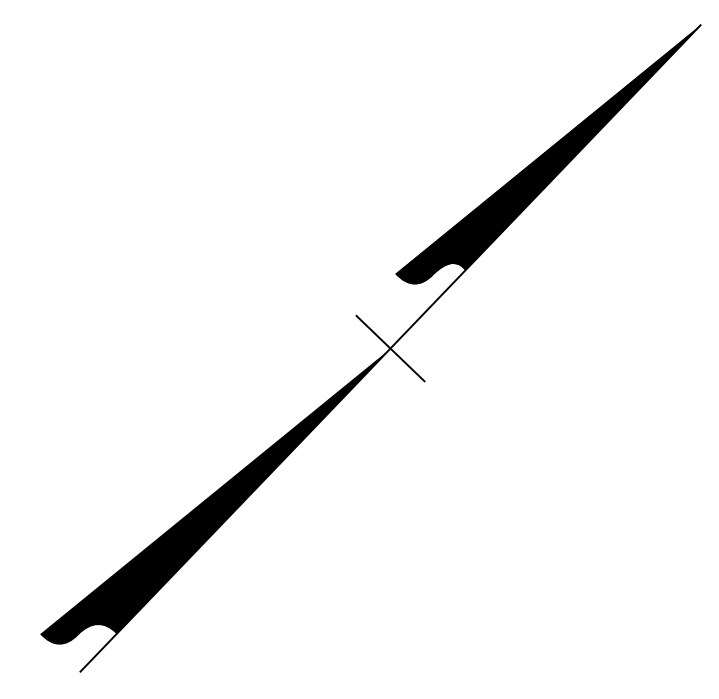
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**SLAB & SEGMENT
 LOCATIONS OVERVIEW**

WB LANES		
SLAB NO.	LANE	LENGTH OF REPAIR
1	RT	30 FT
2	RT	30 FT
3	RT	12 FT
4	RT	12 FT
5	RT	12 FT
6	RT	6 FT
7	RT	6 FT
8	RT	12 FT
9	RT	50 FT
10	RT	12 FT
11	RT	12 FT
12	RT	20 FT
13	RT	12 FT
14	LT	12 FT



EB LANES		
SLAB NO.	LANE	LENGTH OF REPAIR
24	RT	27 FT
25	RT	40 FT
26	RT	20 FT
27	RT	40 FT
28	LT	40 FT
29	RT	6 FT
30	RT	10 FT

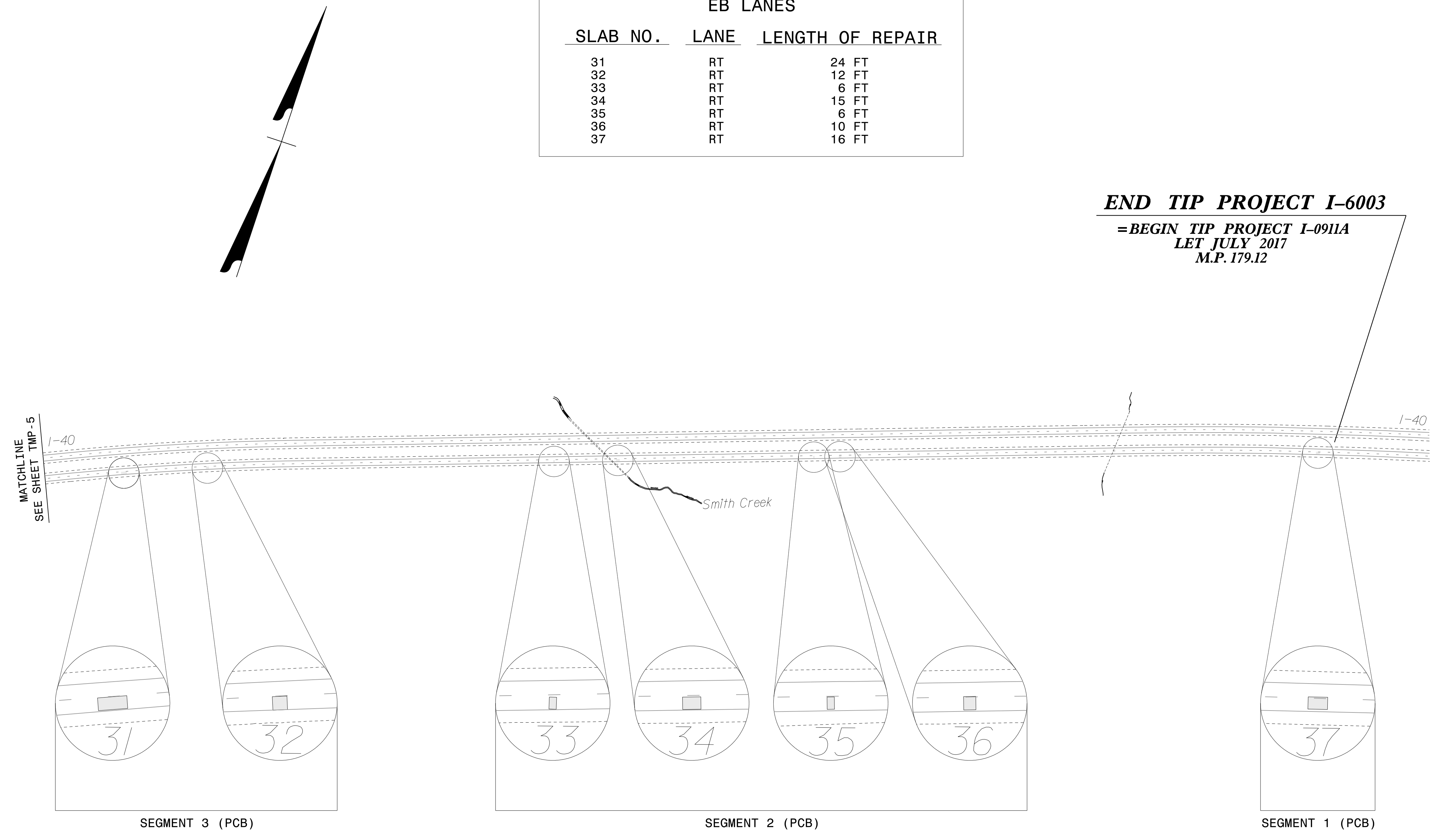
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APPROVED: _____ DATE: _____ SEAL 		SLAB & SEGMENT LOCATIONS OVERVIEW
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EB LANES		
SLAB NO.	LANE	LENGTH OF REPAIR
31	RT	24 FT
32	RT	12 FT
33	RT	6 FT
34	RT	15 FT
35	RT	6 FT
36	RT	10 FT
37	RT	16 FT

END TIP PROJECT I-6003
 =BEGIN TIP PROJECT I-0911A
 LET JULY 2017
 M.P. 179.12



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 SUITE 410
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 PHONE: 919.881.9939
 NC COA No. F-0929

APPROVED: _____
 DATE: _____

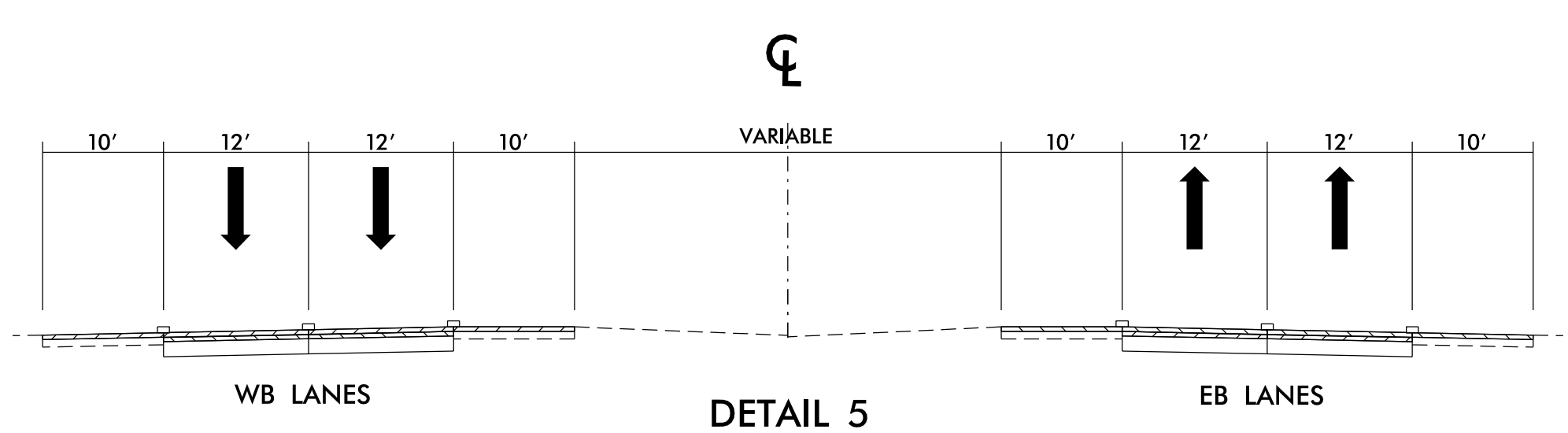
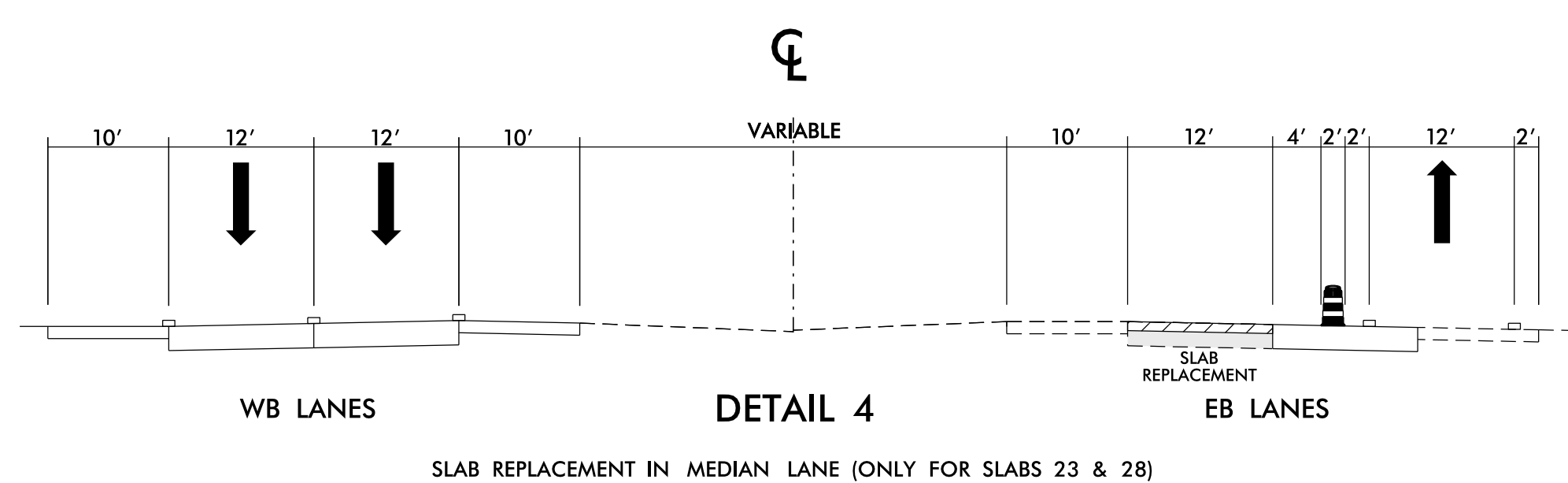
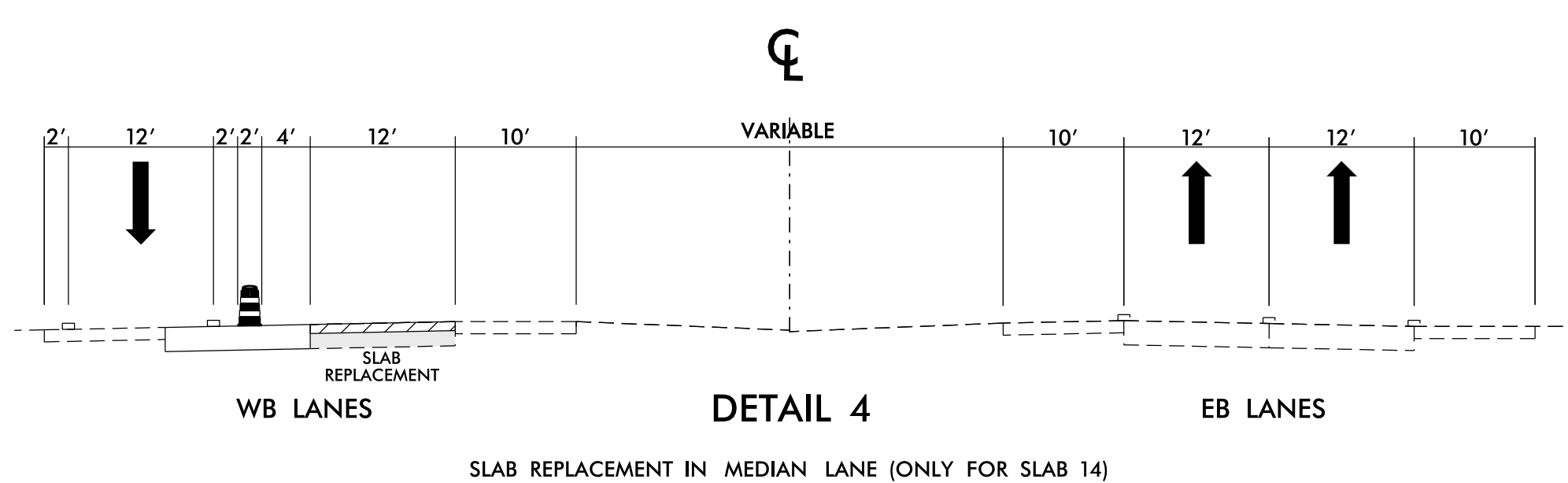
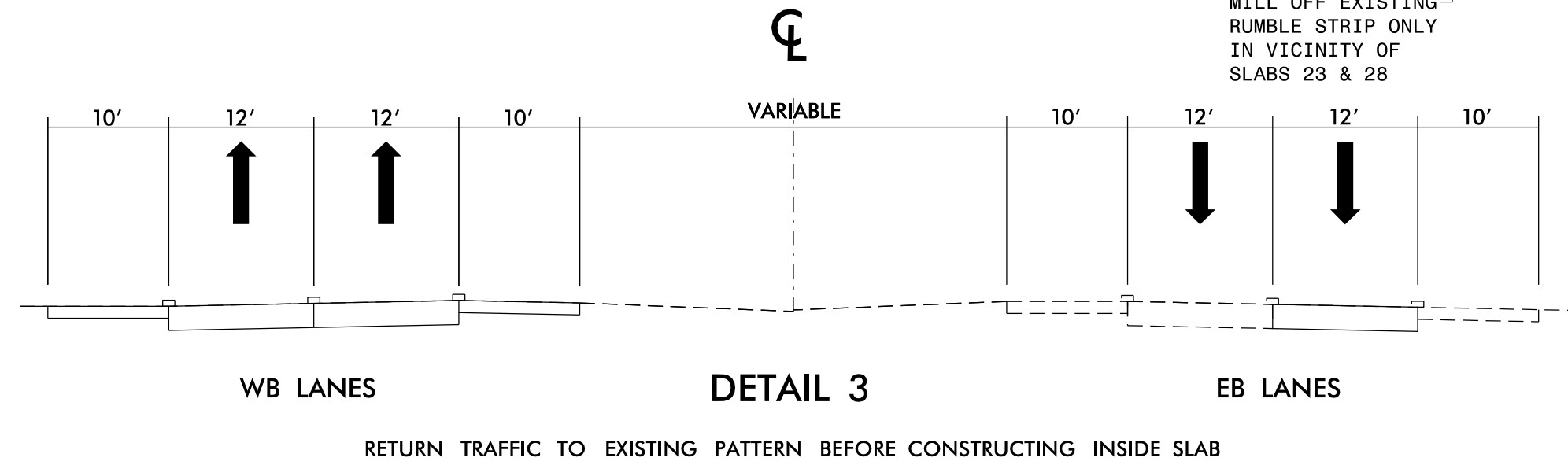
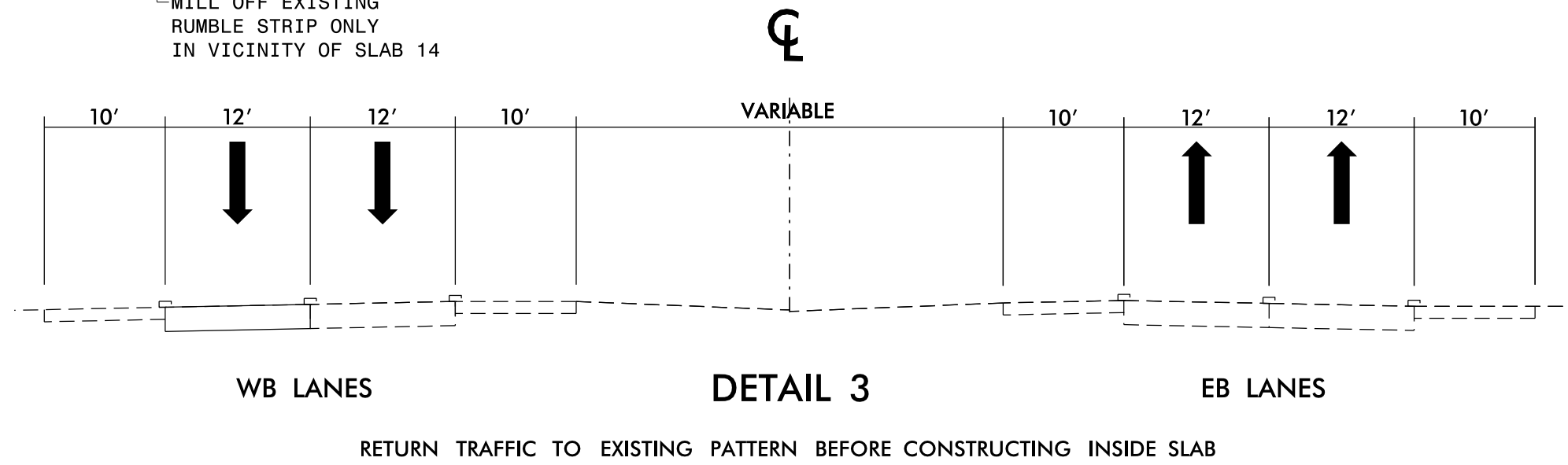
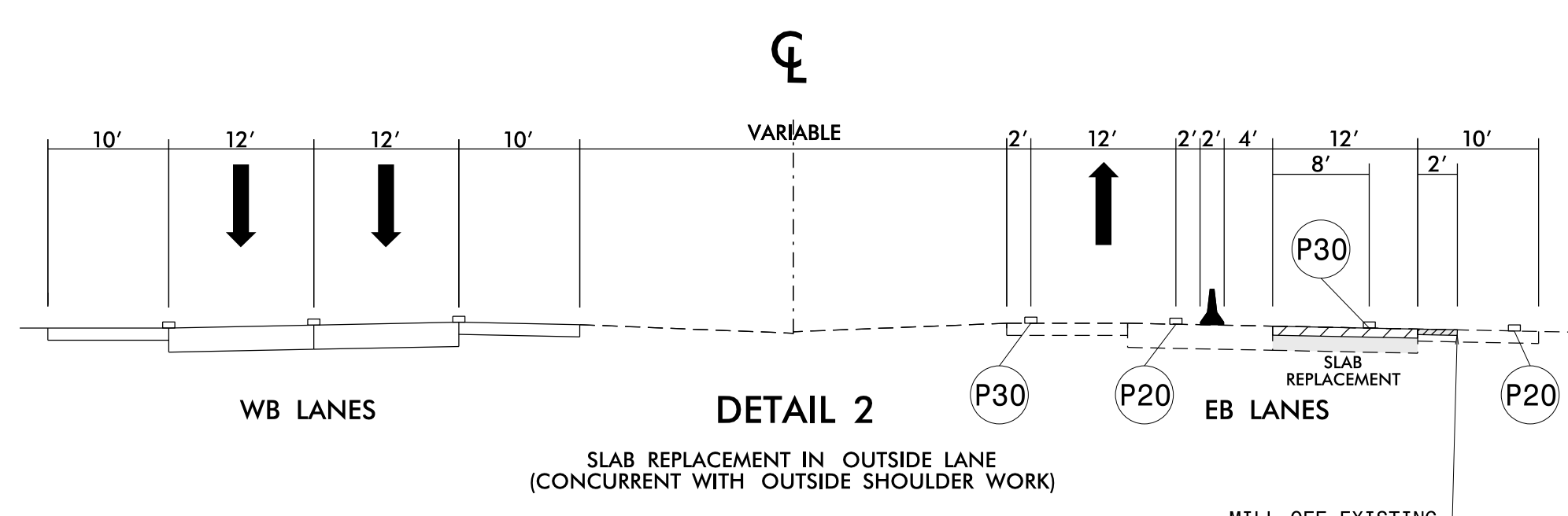
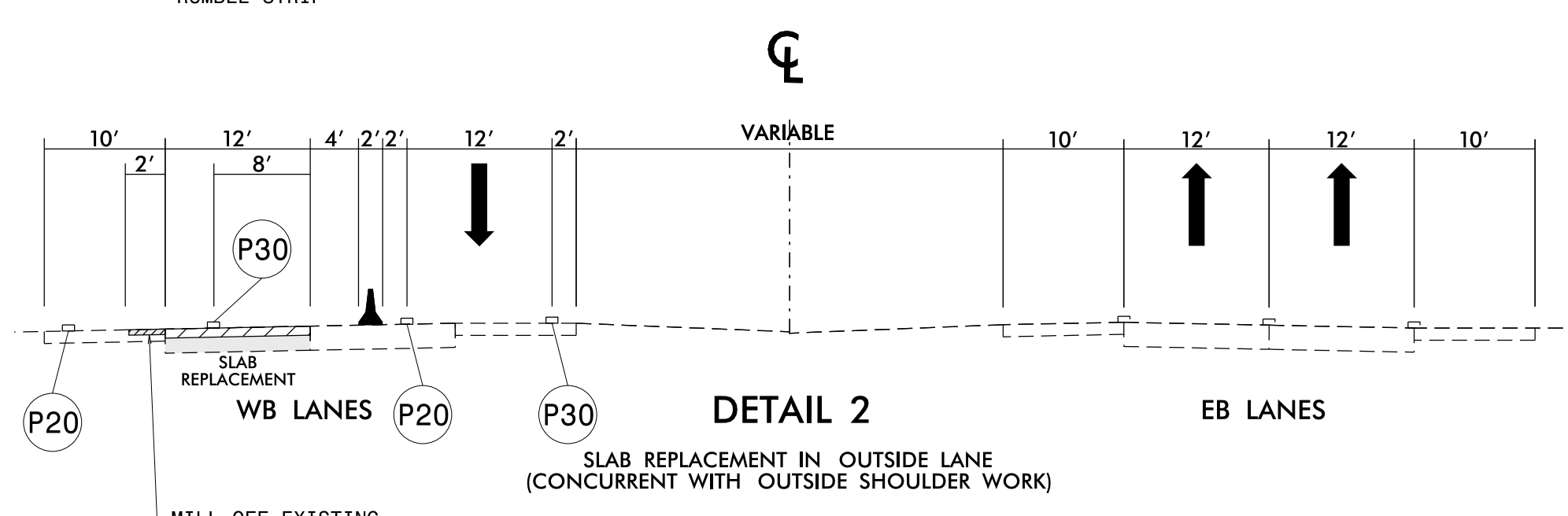
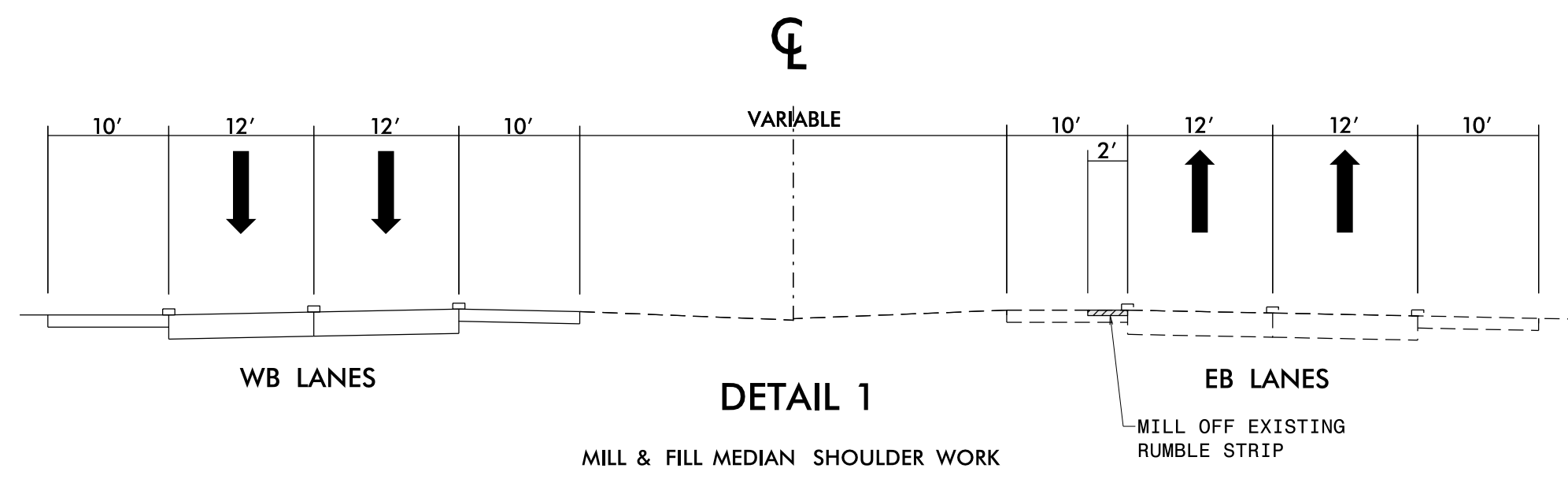
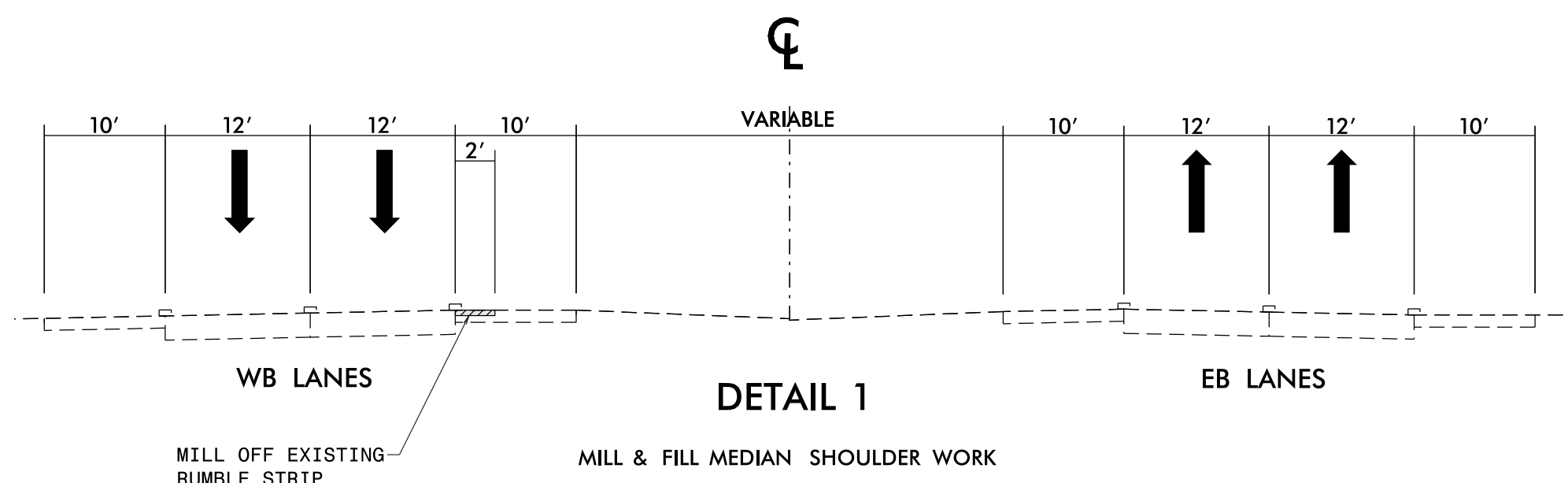
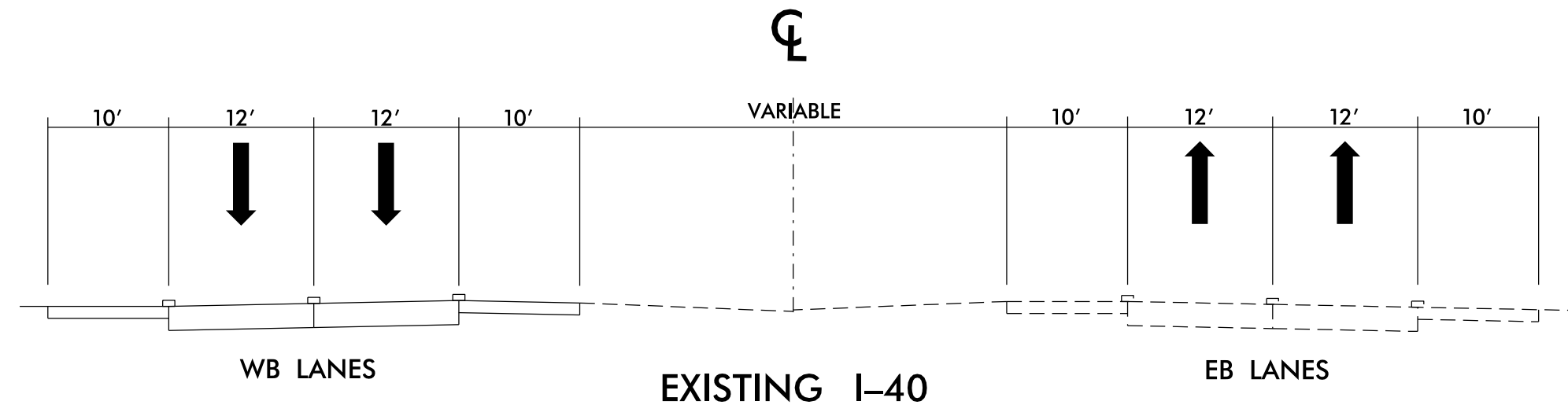
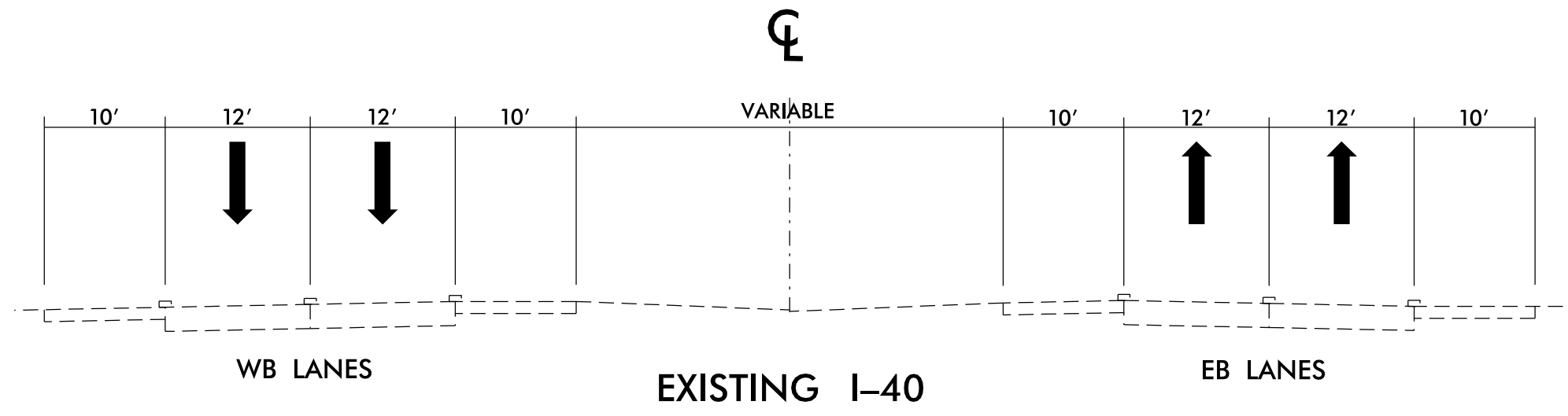
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**SLAB & SEGMENT
 LOCATIONS OVERVIEW**

I-40 WB CONSTRUCTION

I-40 EB CONSTRUCTION

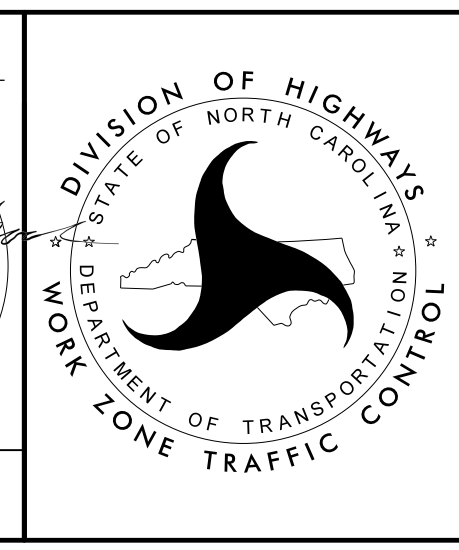


TEMPORARY PAVEMENT MARKING		
P20	WHITE EDGELINE	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")

APPROVED: _____
 DATE: _____

SEAL

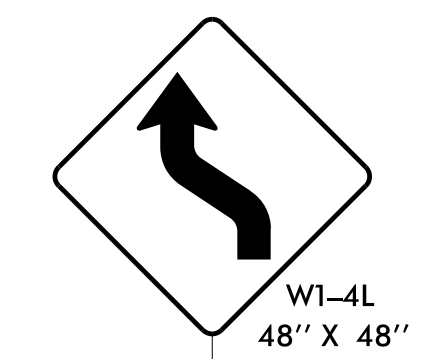
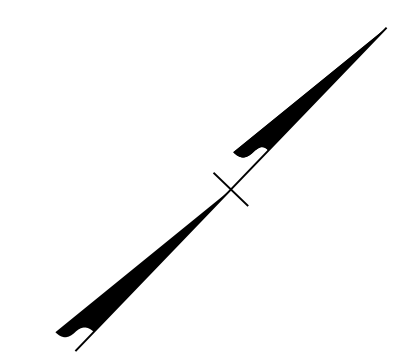
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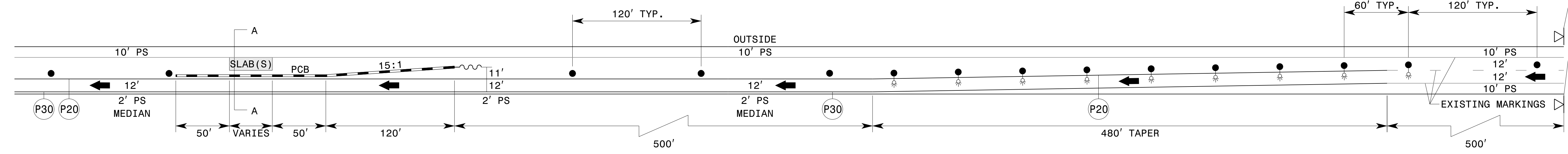
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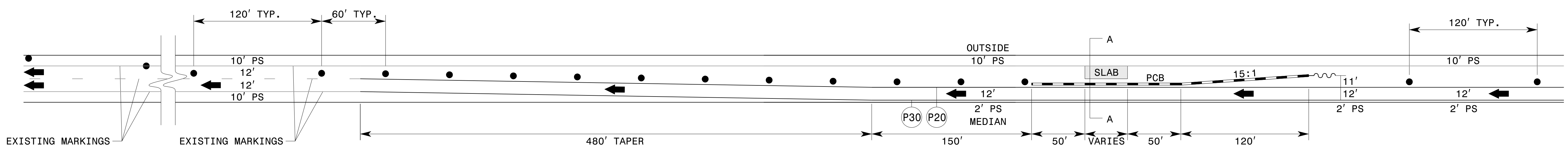
2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 NC COA No. F-0929



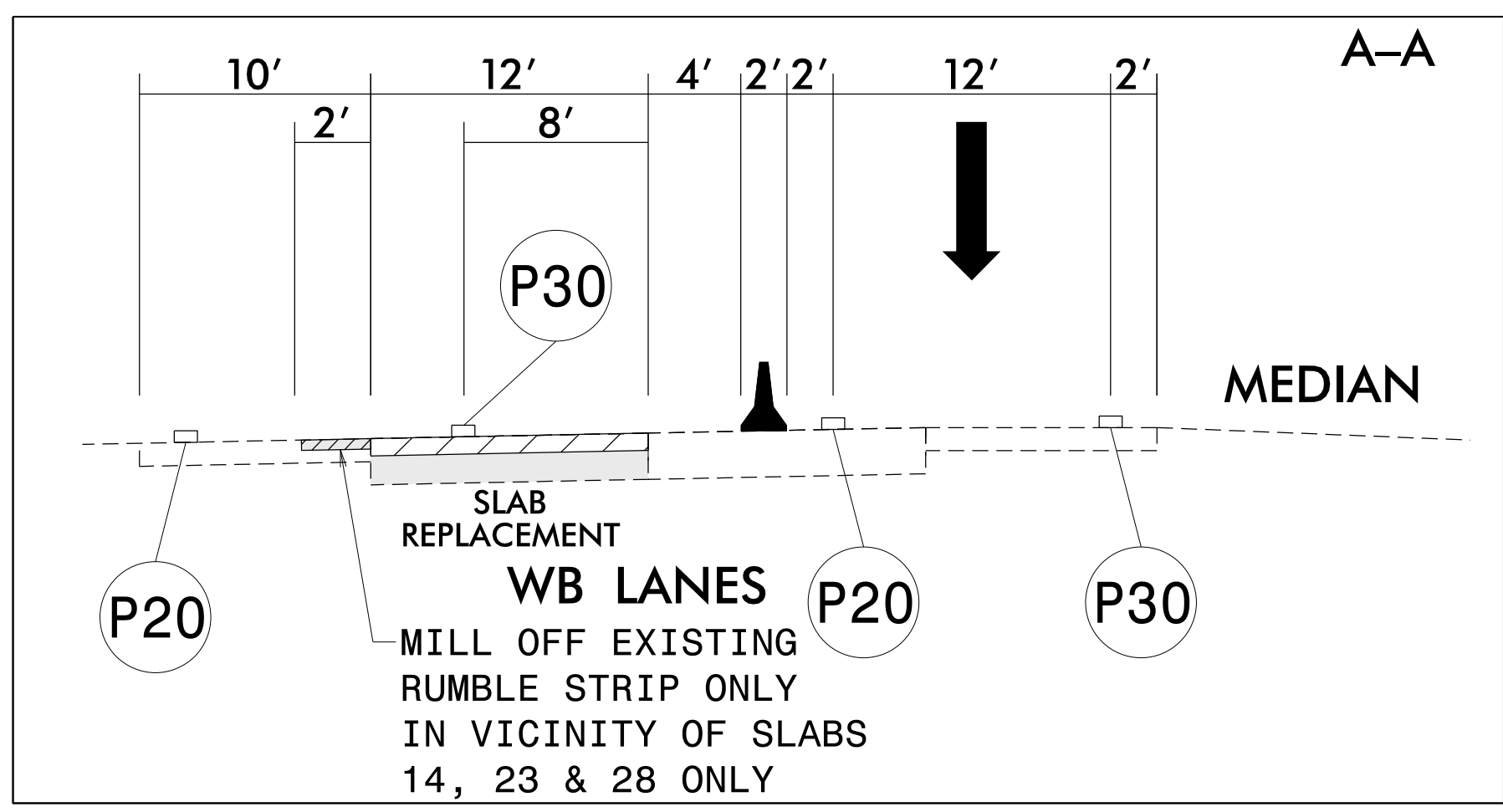
RSD 1101.02 SHEET 4 OF 14,
FOR LANE CLOSURE DETAIL,
SIGNING AND DEVICES



**LONG TERM SHIFT TO MEDIAN SHOULDER FOR OUTSIDE LANE/SHLD. WORK
(EB SIMILAR)**



**LONG TERM SHIFT FROM MEDIAN SHOULDER TO EXISTING PATTERN FOR OUTSIDE LANE/SHLD. WORK
(EB SIMILAR)**



TEMPORARY PAVEMENT MARKING	
	WHITE EDGELINE PAINT (6")
	YELLOW EDGELINE PAINT (6")

LEGEND	
	WORK AREA
	DRUMS
	DIRECTION OF TRAFFIC FLOW
	TEMPORARY CRASH CUSHION
	PORTABLE CONCRETE BARRIER

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NC COA No. F-0929

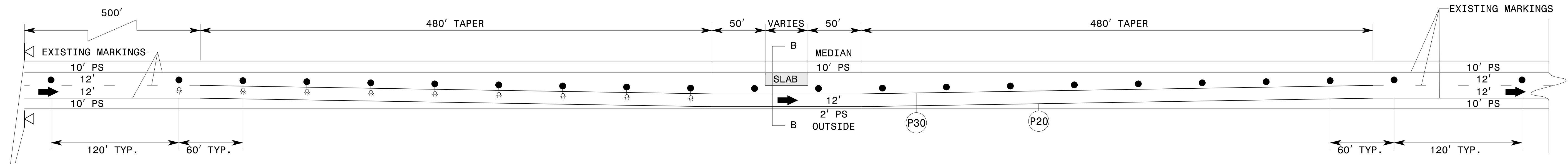
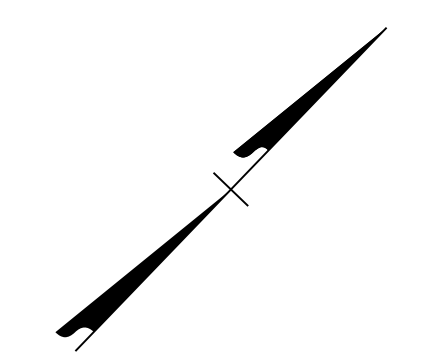
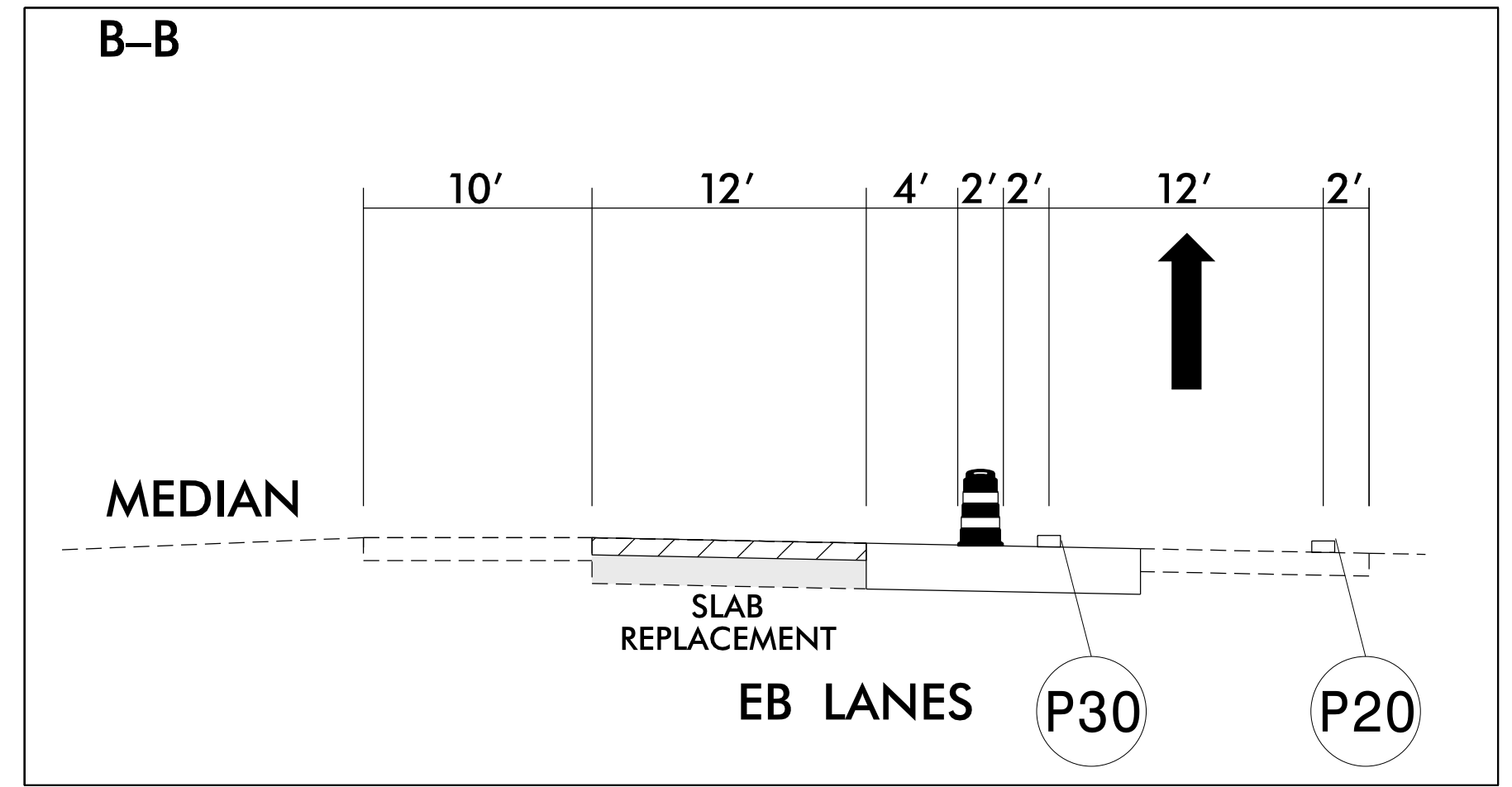
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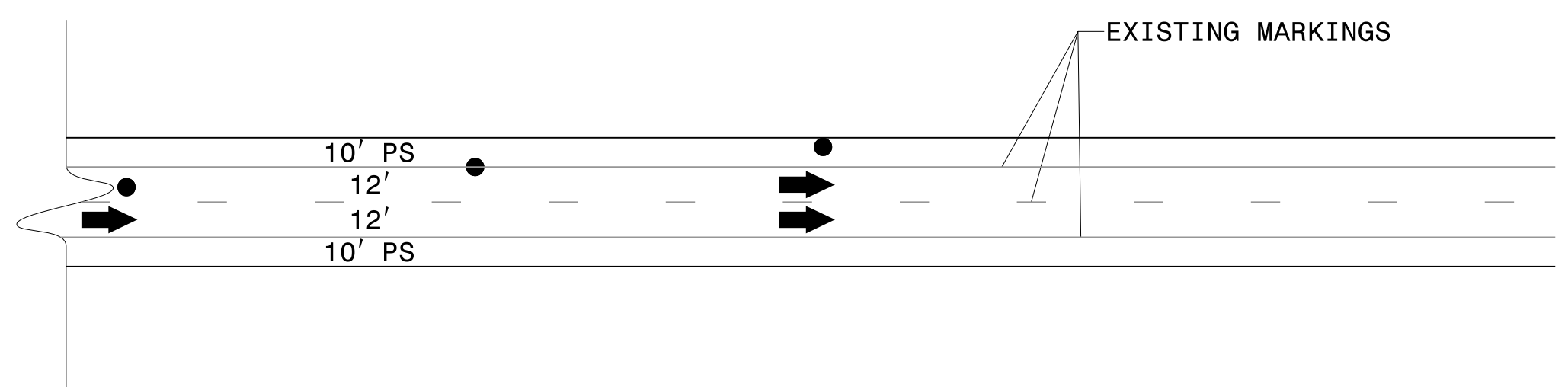
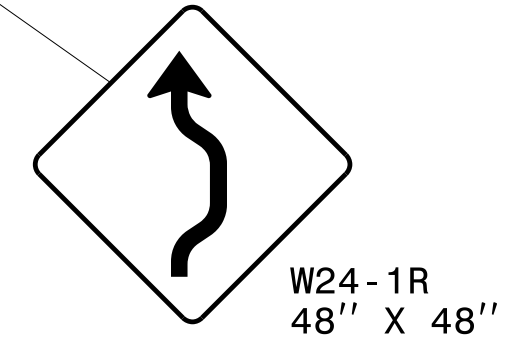
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**LONG TERM LANE SHIFT &
SLAB REMOVAL DETAIL**



RSD 1101.02 SHEET 4 OF 14,
FOR LANE CLOSURE DETAIL,
SIGNING AND DEVICES



TYPICAL SETUP FOR EB SLAB REMOVAL-INSIDE (LEFT) LANE
SLAB NOS. 23 & 28

TEMPORARY PAVEMENT MARKING	
P20	WHITE EDGELINE PAINT (6")
P30	YELLOW EDGELINE PAINT (6")

Dewberry
2610 WYCLIFF ROAD
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8/6/2021

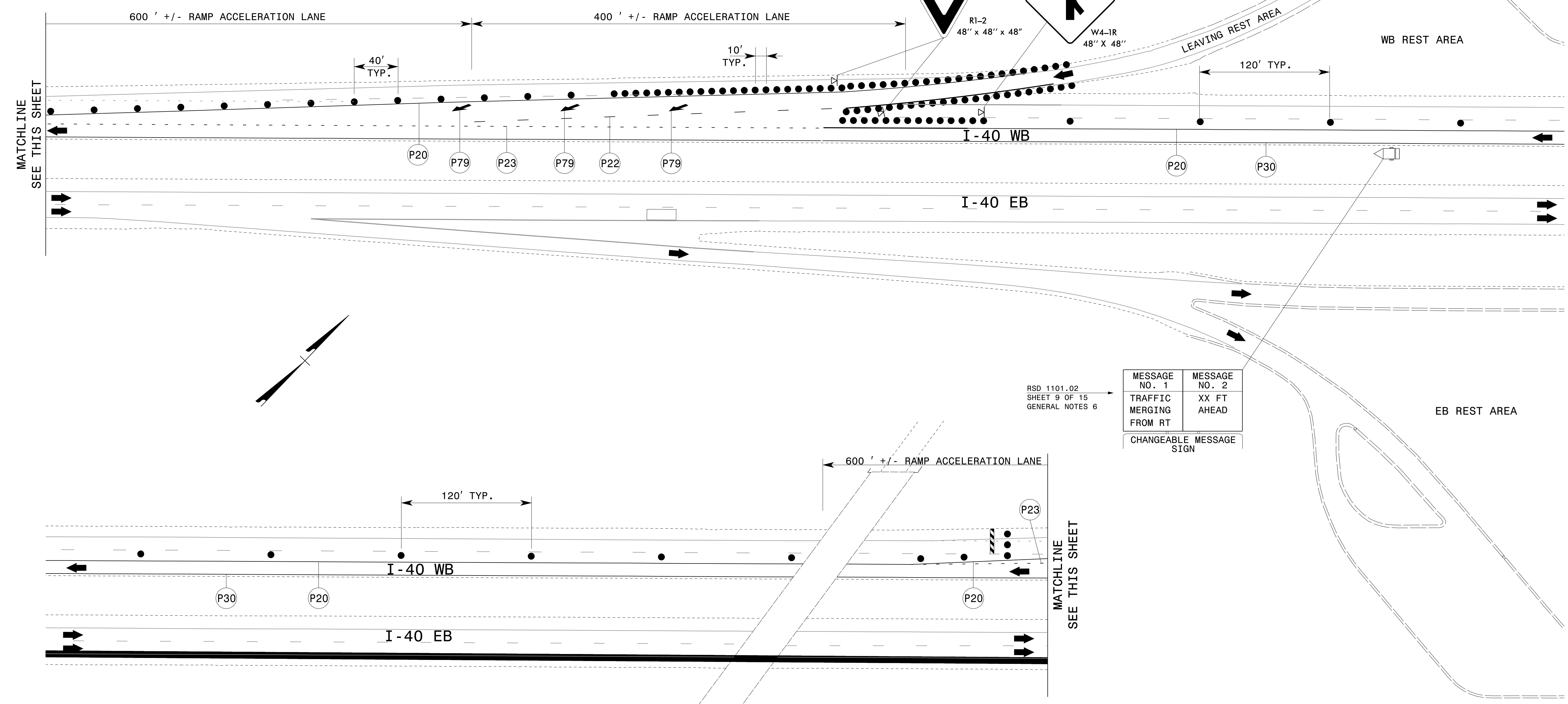
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**LONG TERM LANE SHIFT &
SLAB REMOVAL DETAIL**

19-JUL-2021 11:46
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 abeshear@s

I-40 WB - CLOSURE OF RIGHT LANE MERGING INTO I-40 WB



RSD 1101.02
SHEET 9 OF 15
GENERAL NOTES 6

MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC MERGING FROM RT	XX FT AHEAD
CHANGEABLE MESSAGE SIGN	

TEMPORARY PAVEMENT MARKING		
P20	WHITE EDGELINE	PAINT (6")
P23	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
P22	10 FT WHITE SKIP	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")
PAVEMENT MARKING SYMBOLS AND CHARACTERS		
P79	PAINT MERGE ARROW	PAINT

SR 1441 (RAINBOW ROAD)

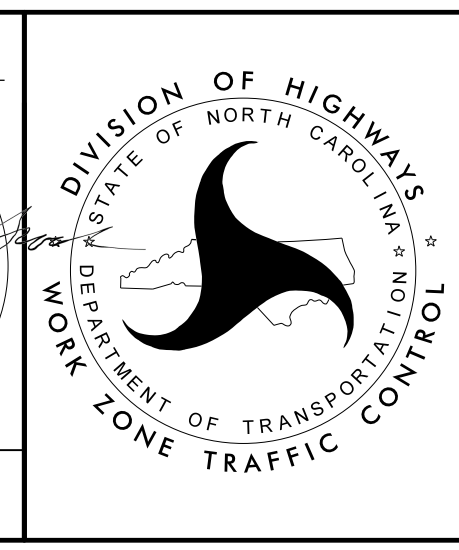


2610 WYCLIFF ROAD
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NC COA No. F-0929

APPROVED: _____
DATE: _____

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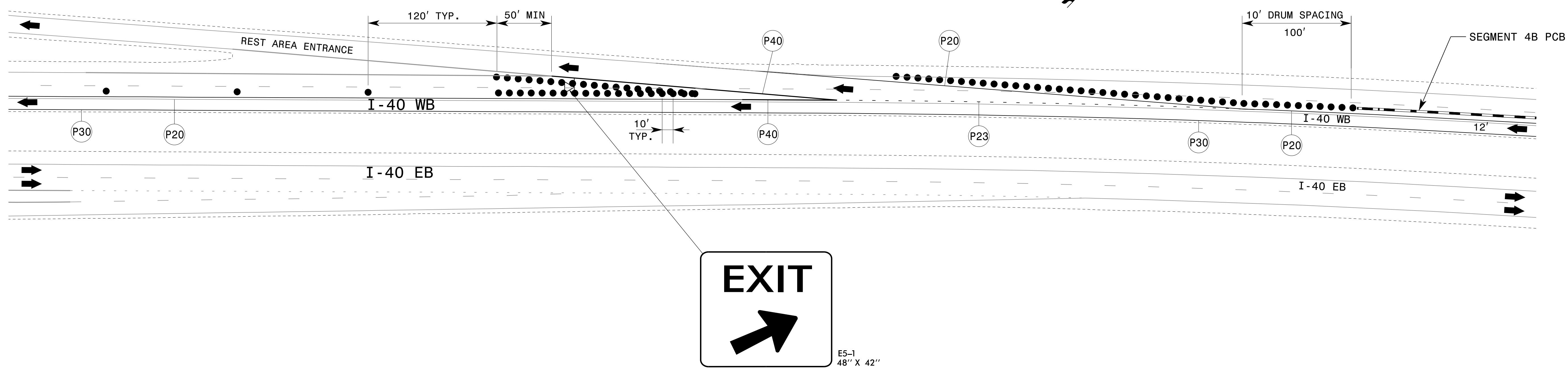
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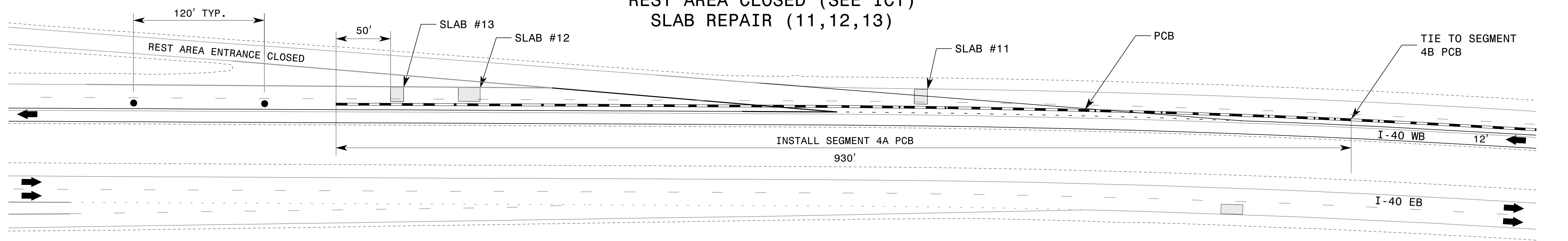
**WB REST AREA
I-40 ON RAMP DETAIL**

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DETAIL 1
I-40 WB - CLOSURE OF RIGHT LANE
REST AREA OPEN



DETAIL 2
I-40 WB - CLOSURE OF RIGHT LANE
REST AREA CLOSED (SEE ICT)
SLAB REPAIR (11,12,13)



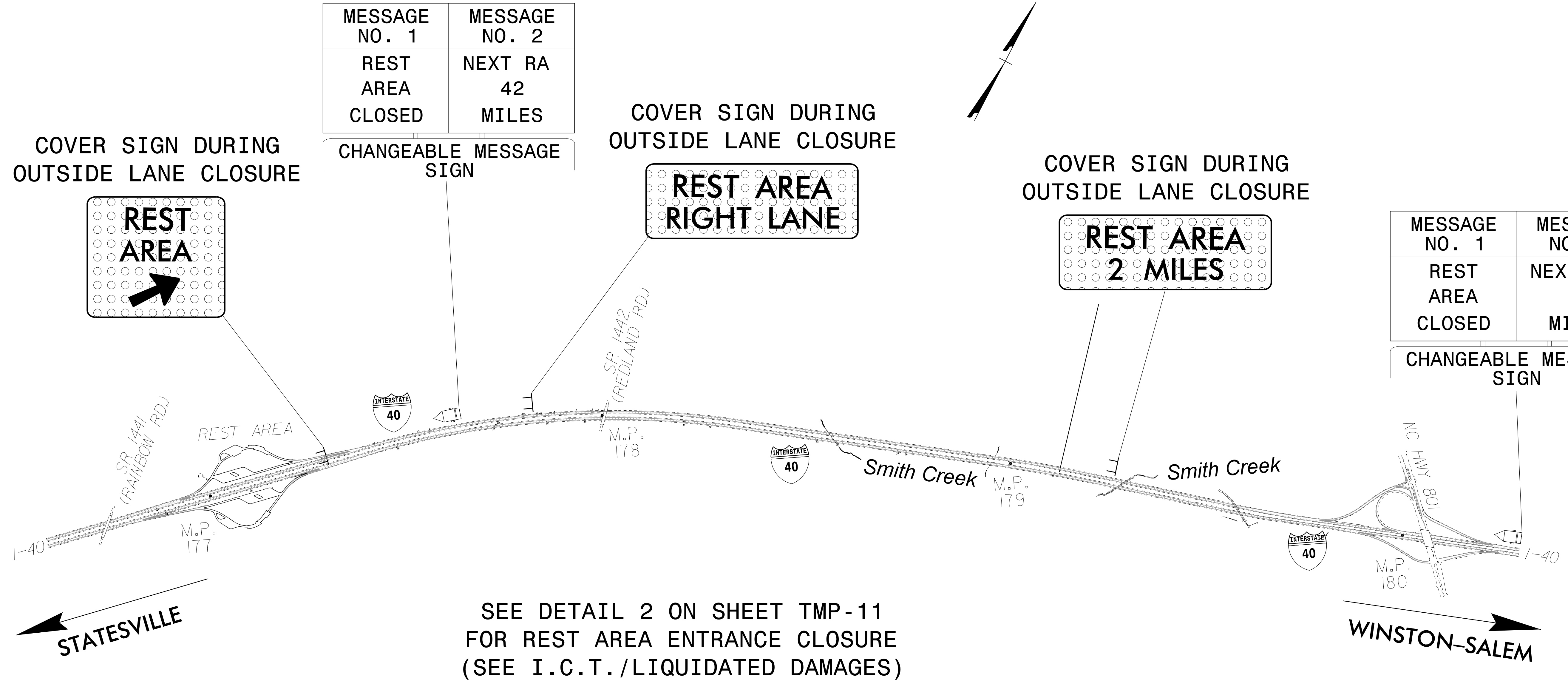
TEMPORARY PAVEMENT MARKING		
P20	WHITE EDGELINE	PAINT (6")
P23	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")
P40	WHITE GORELINE	PAINT (8")

SEE SHEET TMP-12 FOR SIGNING FOR REST AREA CLOSURE

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 PHONE: 919.881.9939
 NC COA No. F-0929

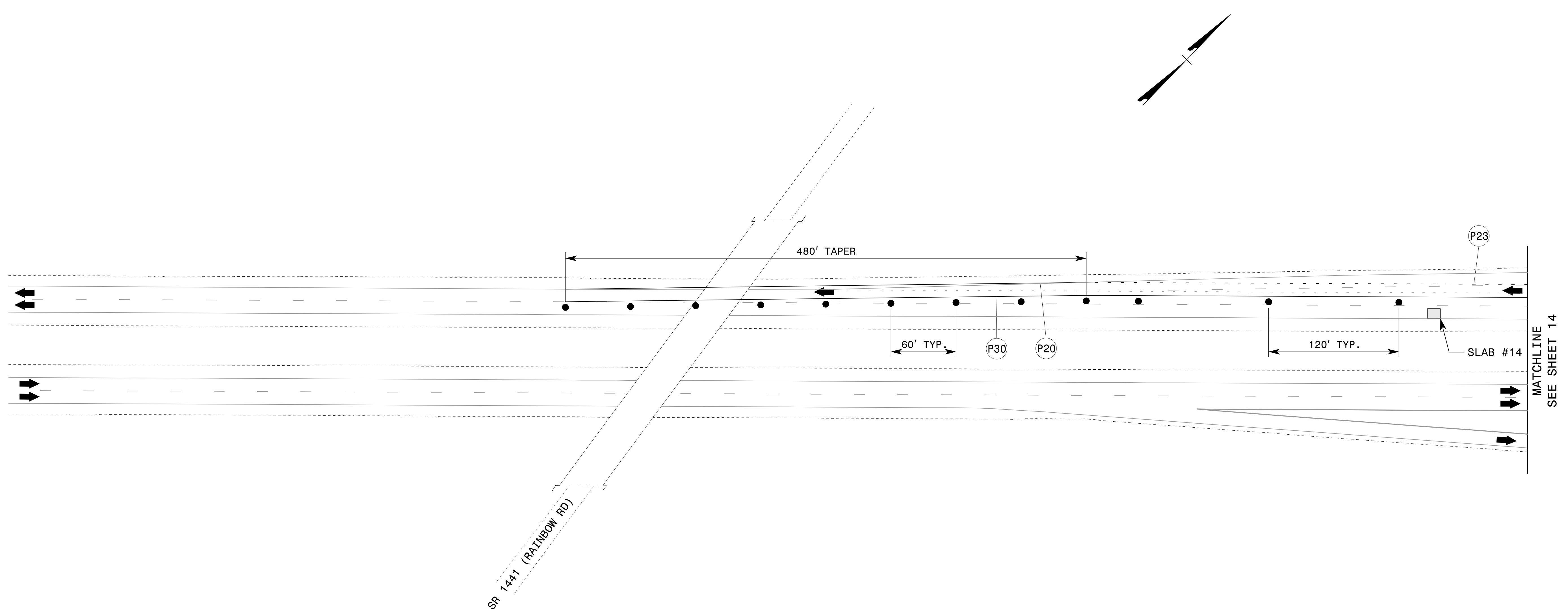
APPROVED: _____ DATE: _____ SEAL 		<p align="center">WB REST AREA I-40 OFF-RAMP DETAIL</p>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		



19-JUL-2021 11:16
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 abeshear-s AT PCQUAT3U

Dewberry
 2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 NC COA No. F-0929

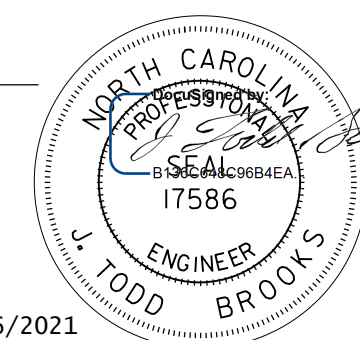
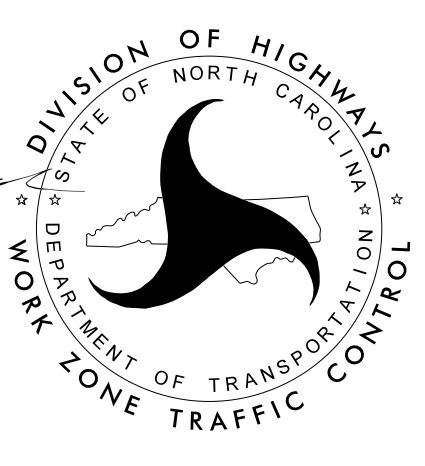
APPROVED: _____ DATE: _____ SEAL 8/6/2023		REST AREA CLOSURE SIGNS
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		

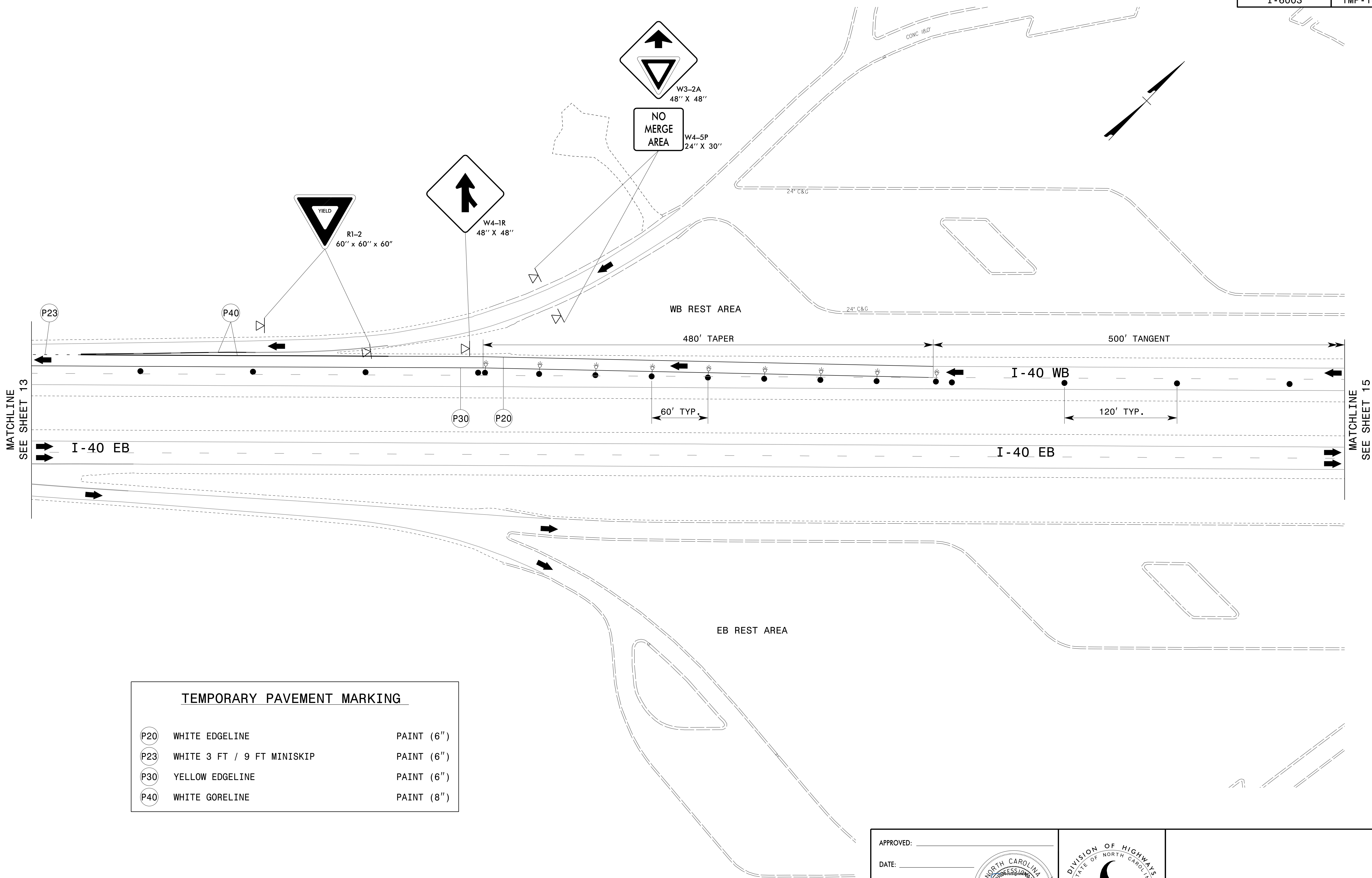


TEMPORARY PAVEMENT MARKING		
P20	WHITE EDGELINE	PAINT (6")
P23	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")

19-JUL-2021 11:46
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Dewberry
 2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 NC COA No. F-0929

APPROVED: _____ DATE: _____ SEAL  8/6/2021		I-40 WB LEFT LANE CLOSURE DETAIL FOR SLAB 14
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

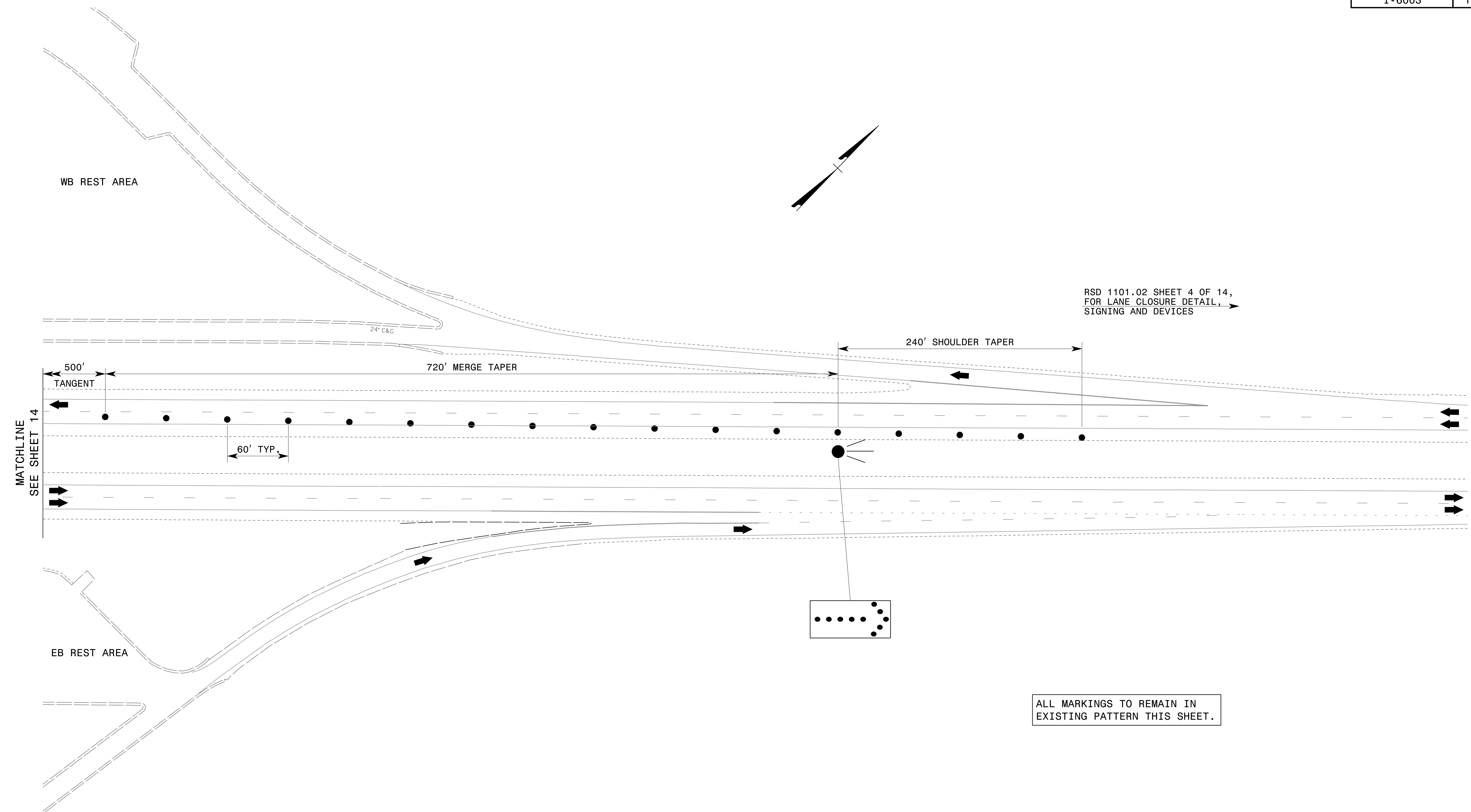


TEMPORARY PAVEMENT MARKING		
(P20)	WHITE EDGELINE	PAINT (6")
(P23)	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
(P30)	YELLOW EDGELINE	PAINT (6")
(P40)	WHITE GORELINE	PAINT (8")

19-JUL-2021 11:16
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2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 NC COA No. F-0929

APPROVED: _____ DATE: _____ SEAL 		I-40 WB LEFT LANE CLOSURE DETAIL FOR SLAB 14
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



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 abeshear@s

2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 NC COA No. F-0929

APPROVED: _____

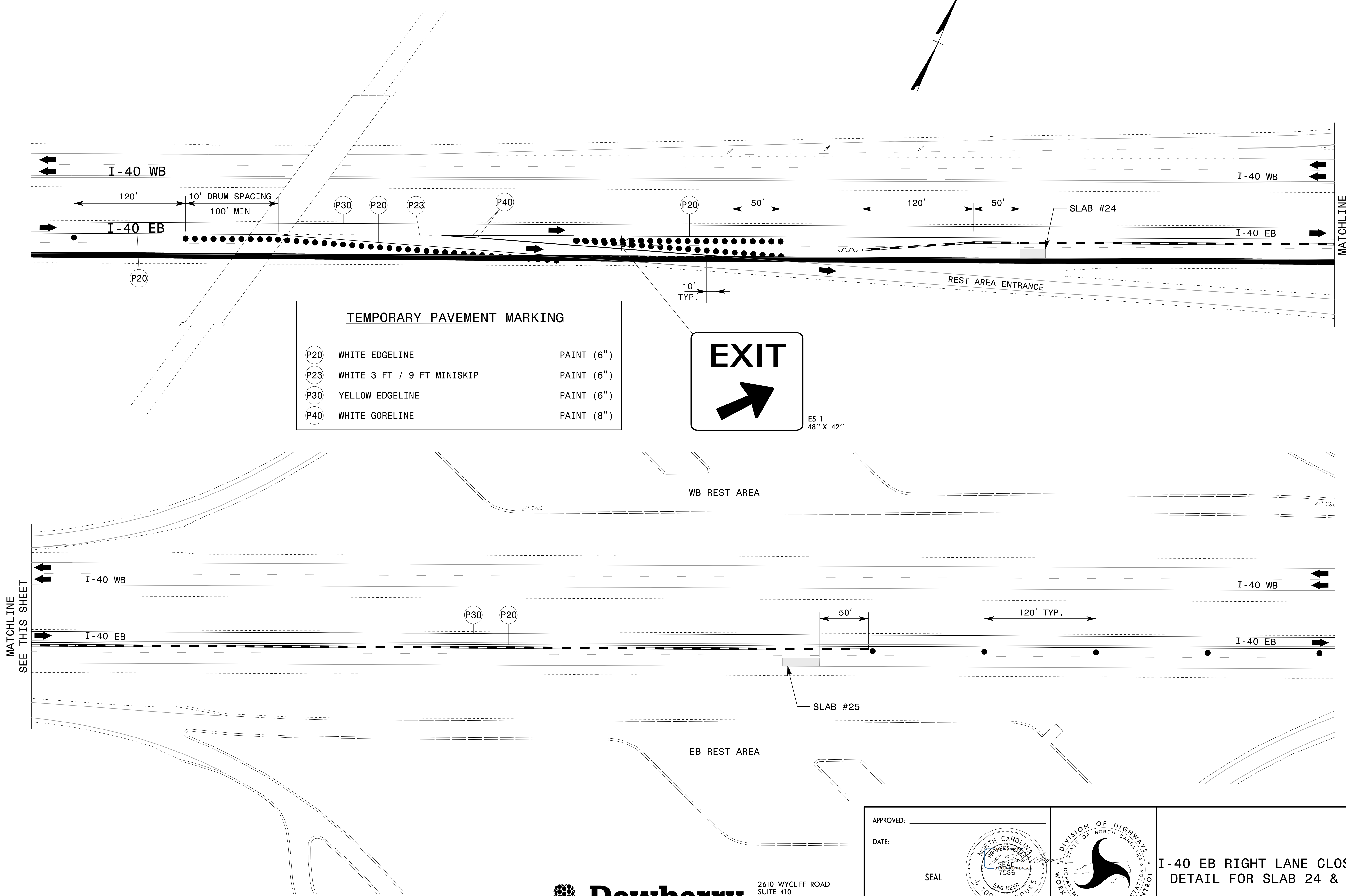
DATE: _____

SEAL

8/6/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I-40 WB LEFT LANE CLOSURE DETAIL FOR SLAB 14



TEMPORARY PAVEMENT MARKING

P20	WHITE EDGELINE	PAINT (6")
P23	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")
P40	WHITE GORELINE	PAINT (8")



MATCHLINE
SEE THIS SHEET

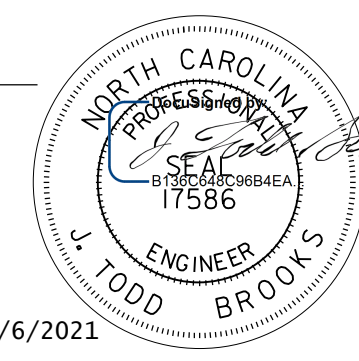
MATCHLINE
SEE THIS SHEET

19-JUL-2021 11:16
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 abeshear-s AT_PCOUAT3U

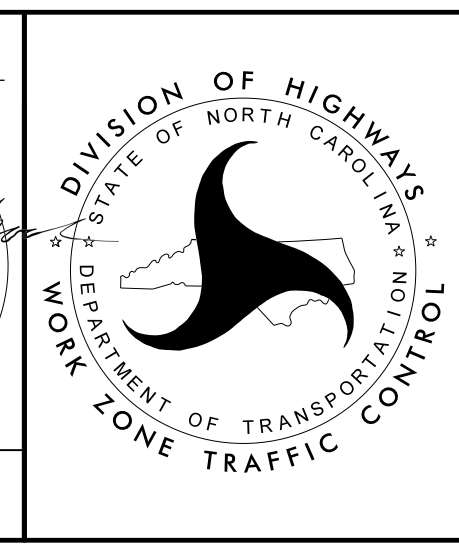

Dewberry
 2610 WYCLIFF ROAD
 SUITE 410
 RALEIGH, NC 27607
 PHONE: 919.881.9939
 NC COA No. F-0929

APPROVED: _____
 DATE: _____

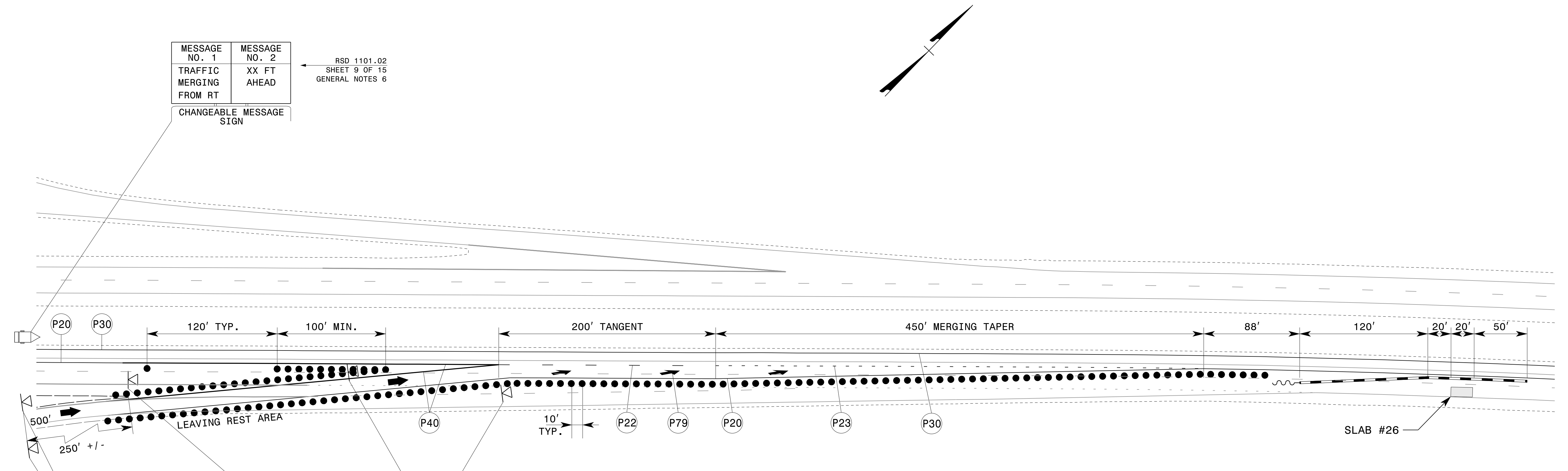
SEAL



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UNLESS ALL SIGNATURES COMPLETED**



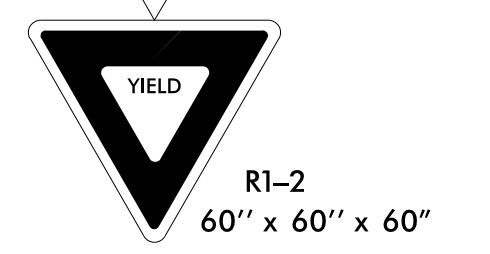
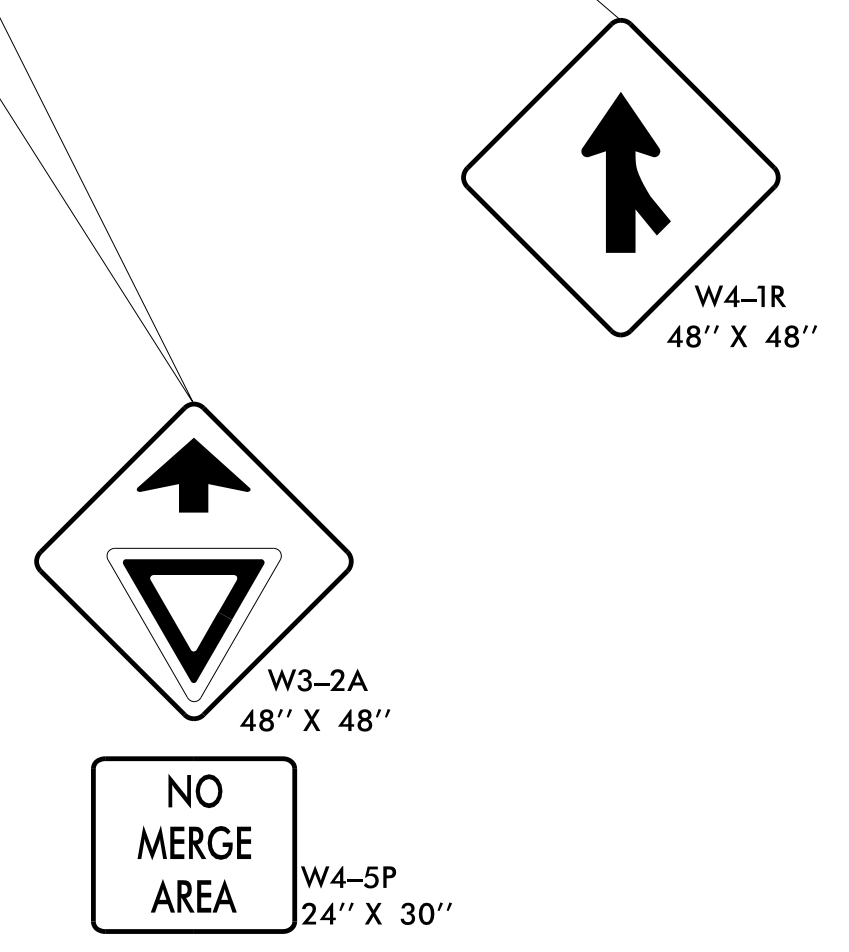
**I-40 EB RIGHT LANE CLOSURE
DETAIL FOR SLAB 24 & 25**



MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC MERGING FROM RT	XX FT AHEAD

CHANGEABLE MESSAGE SIGN

RSD 1101.02
SHEET 9 OF 15
GENERAL NOTES 6



TEMPORARY PAVEMENT MARKING		
P20	WHITE EDGELINE	PAINT (6")
P22	10 FT. WHITE SKIP	PAINT (6")
P23	WHITE 3 FT / 9 FT MINISKIP	PAINT (6")
P30	YELLOW EDGELINE	PAINT (6")
P40	WHITE GORELINE	PAINT (8")
PAVEMENT MARKING SYMBOLS AND CHARACTERS		
P79	PAINT MERGE ARROW	PAINT

19-JUL-2021 11:16
 P:\NCDOT\I-6003 I-40 Rehab\TMP\Plans\I-6003_TMP_17.dgn
 abeshear.s AT_PCOUAT3U

2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

APPROVED: _____
DATE: _____

SEAL

8/6/2021

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

**I-40 EB RIGHT LANE CLOSURE
DETAIL FOR SLAB 26**