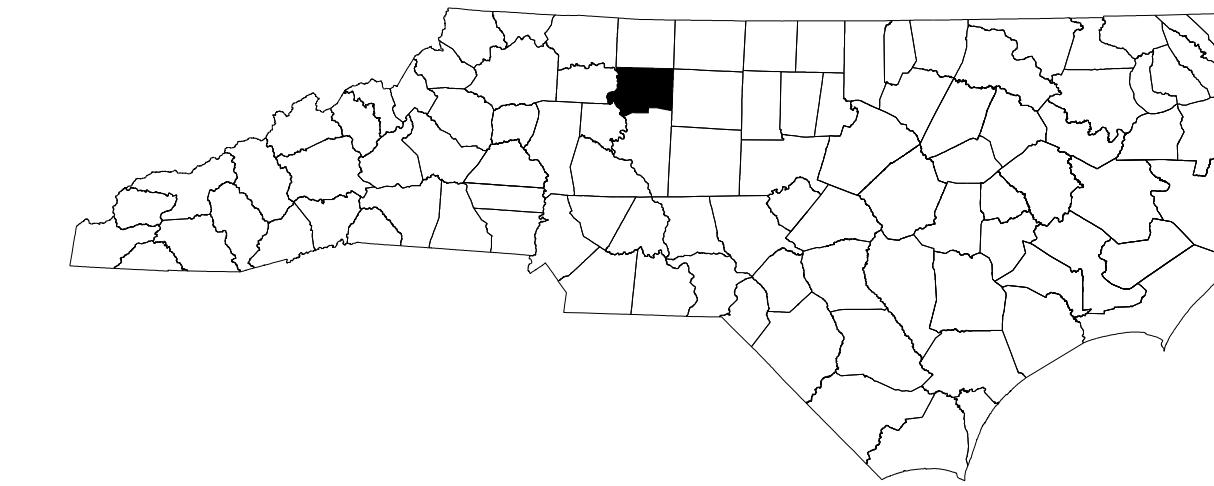
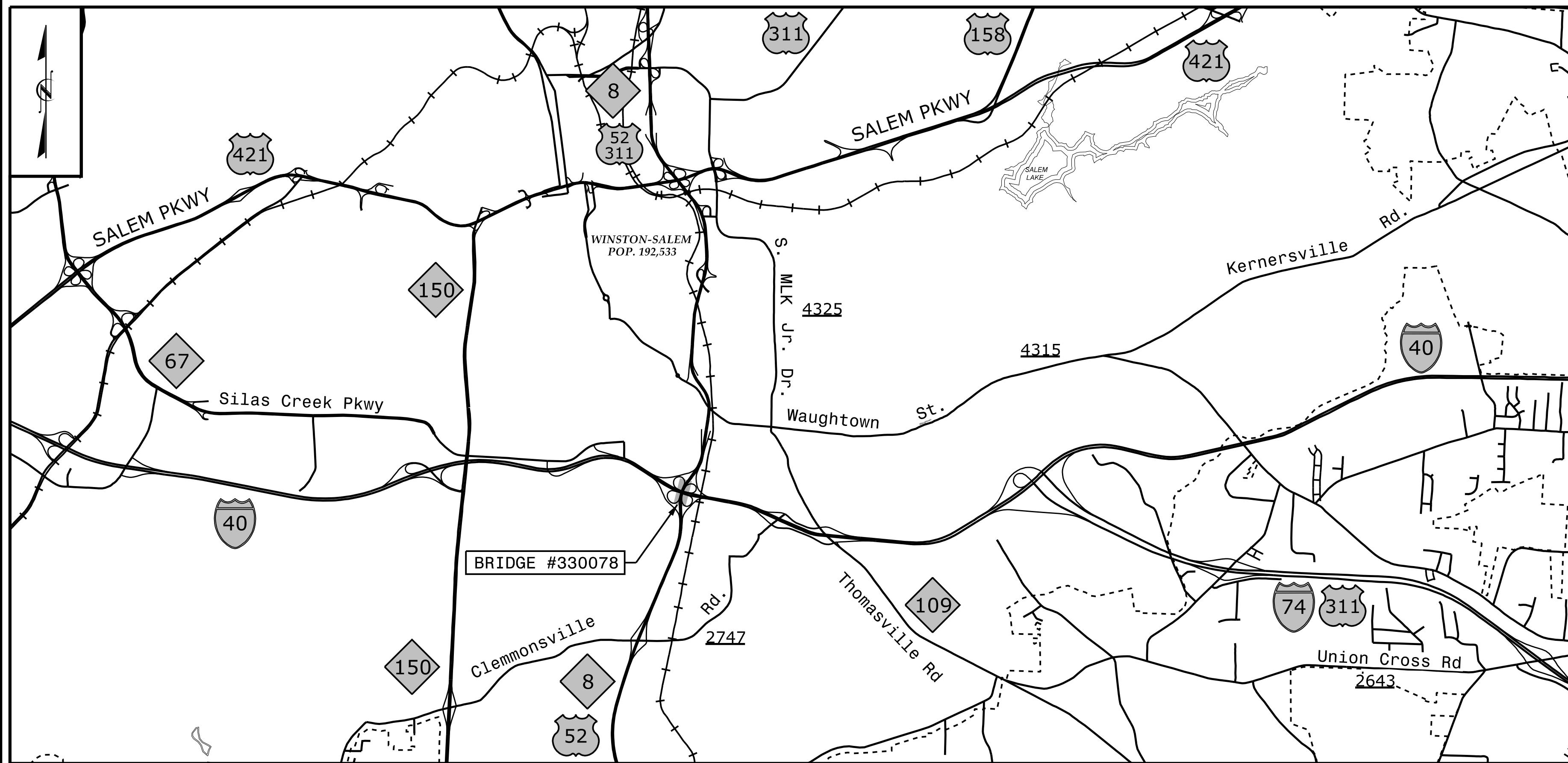


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYSTRANSPORTATION MANAGEMENT PLAN  
FORSYTH COUNTY

LOCATION: BRIDGE #330078 OVER I-40 ON US-52 /US-311 /NC-8

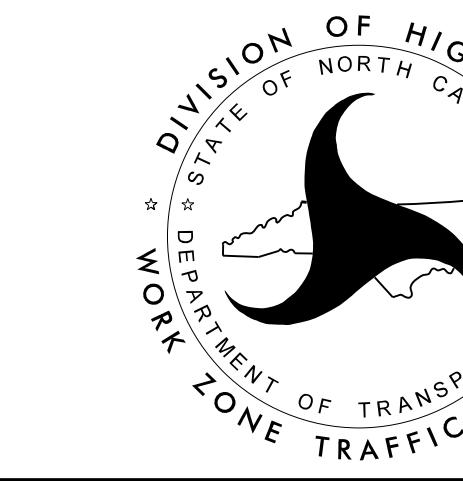
PLOT DRIVER: NCDOT-pdf-color-eng-50.dwg  
USER: \$USER\$  
FILE: pw:\pwhdruse01\intranet\hdr-hdr.US.East\_01A\Documents\3322\10444570\6.0.CAD\_BIM\6.2.WTP\Traffic\TrafficControl\TCP\15BPR-148\_TC\_TMP01.dwgPENTABLE: NCDOT\_tcp.tbl  
TIME: 1:40:04 PM  
DATE: 11/24/2025WORK ZONE SAFETY & MOBILITY  
"from the MOUNTAINS to the COAST"

## PLANS PREPARED BY:

MIKE RZEPKA, P.E.  
TRAFFIC CONTROL PROJECT ENGINEER  
CHRIS HARNDEN  
TRAFFIC CONTROL DESIGN ENGINEER

## NCDOT CONTACTS:

TIM SHERRILL, P.E.  
PROJECT ENGINEER  
PROJECT DESIGN ENGINEER



PLAN PREPARED BY:  
**HDR** HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900, Raleigh, NC 27601  
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

APPROVED: Michael T. Rzepka

DATE: 11/24/2025

SEAL



TIP PROJECT:

SHEET NO.  
TMP-1

## INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU TMP-12	TEMPORARY TRAFFIC CONTROL DETAILS

15BPR.148

## ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -  
 N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024  
 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED  
 A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY-DRUMS

## LEGEND

### GENERAL

- ← DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- + NORTH ARROW
- PROPOSED PVMT.



WORK AREA

### PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

### TRAFFIC CONTROL DEVICES

- |||| BARRICADE (TYPE III)
- ▲ CONE
- DRUM ○ SKINNY DRUM ○ TUBULAR MARKER
- |||● FLASHING ARROW BOARD
- POLICE CAR LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- ↔ CHANGEABLE MESSAGE SIGN

### TEMPORARY SIGNING

- PORTABLE SIGN
- └ STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

APPROVED: <i>Michael T. Rzepka</i>	DATE: 11/24/2025	SEAL	DIVISION OF HIGHWAYS DEPARTMENT OF TRANSPORTATION WORK ZONE OF TRAFFIC CONTROL
		15876 MICHAEL T. RZEPKA NORTH CAROLINA PROFESSIONAL ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

ROADWAY STANDARD  
DRAWINGS & LEGEND

## MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

### RECOMMENDED STRATEGIES:

#### TRAFFIC MANAGEMENT STRATEGIES:

FULL ROADWAY CLOSURES  
ROLLING ROADBLOCK  
LANE SHIFTS OR CLOSURES  
SHOULDER CLOSURES  
RAMP CLOSURES / RELOCATION  
NIGHT WORK  
WEEKEND WORK  
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL  
OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

#### TRAFFIC / INCIDENT MANAGEMENT & SPEED ENFORCEMENT STRATEGIES:

LOCAL DETOUR ROUTES

#### CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

## 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-285/US 52	MONDAY-SUNDAY 5:00 AM TO 11:00 PM
I-40 & RAMPS	MONDAY-SUNDAY 5:00 AM TO 9:00 PM (LANE CLOSURE) 5:00 AM TO 11:00 PM (DOUBLE LANE CLOSURE)

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

##### ROAD NAME

I-285/US 52/I-40

##### 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 31st TO 8:00 PM JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 5:00 AM THURSDAY AND 8:00 PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 AM FRIDAY TO 8:00 PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE DAY 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 8:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 AM FRIDAY AND 8:00 PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 AM TUESDAY TO 8:00 PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

#### C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
I-285/US 52	MONDAY-SUNDAY 5:00 AM TO 11:00 PM	20 MINUTE BRIDGE JACKING

#### D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY 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 CLOSURE IS INSTALLED.

#### G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 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 REMAIN 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.

#### K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON I-40 & I-285/US 52.

#### M) USE SEQUENTIAL FLASHING WARNING LIGHTS ON DRUMS USED FOR THE MERGING TAPERS OF NIGHTTIME LANE CLOSURES IN ACCORDANCE WITH SECTION 1140 IN THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

#### N) NOTIFY THE NCDOT STATEWIDE TRANSPORTATION OPERATIONS CENTER (STOC) AT 877-627-7862 APPROXIMATELY 30 MINUTES PRIOR TO INSTALLING AND WITHIN 15 MINUTES AFTER REMOVING LANE CLOSURES ON INTERSTATES, FREEWAYS, CONTROLLED ACCESS FACILITIES, AND US ROUTES.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

#### Q) 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.

#### R) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

#### S) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

#### T) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

#### U) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

#### V) 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 OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

### MISCELLANEOUS

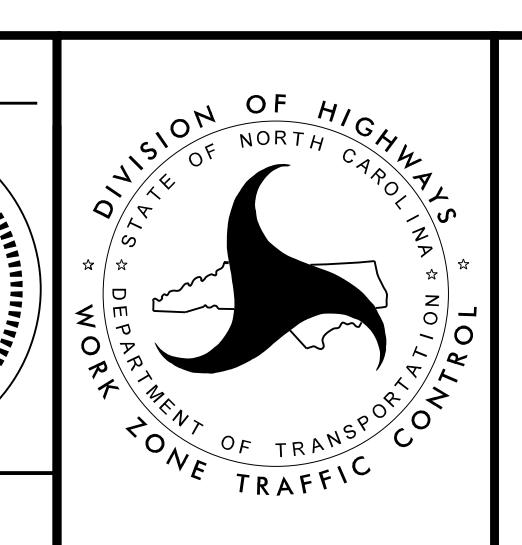
#### X) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AS DIRECTED BY THE ENGINEER.

APPROVED: *Michael T. Ryepka*  
DATE: 11/24/2025

SEAL



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



TRANSPORTATION  
OPERATIONS PLAN



## PHASING

### PHASE 2 (SEE TMP-6 AND TMP-7)

#### NOTES:

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT, UNLESS OTHERWISE NOTED IN THE PHASING PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO THE EXISTING TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING PLANS.

WHEN PHASING STATES TO USE LANE CLOSURES, REFER TO THE FOLLOWING FOR ALL EXISTING AND PROPOSED ROADS:

- ALL MULTI-LANE FACILITIES POSTED < 60 MPH SEE RSD 1101.02 SHEET 3 OF 19
- ALL MULTI-LANE FACILITIES POSTED ≥ 60 MPH SEE RSD 1101.02 SHEET 4 OF 19
- ALL ENTRANCE AND EXIT RAMPS SEE RSD 1101.02 SHEETS 12 AND 13 OF 19

### PHASE 1 (SEE TMP-4 AND TMP-5)

#### NOTES:

STEP 1 THRU STEP 3 MAY BE COMPLETED IN ANY ORDER, BUT NOT CONCURRENTLY.

WORK AT ANY ONE LOCATION DOES NOT NEED TO BE COMPLETED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

LOOP CLOSURES MAY ONLY BE IMPLEMENTED AS NEEDED TO COMPLETE ONGOING WORK WITHIN A STEP. ADDITIONAL LOOPS MAY NOT BE CLOSED SIMULTANEOUSLY.

#### STEP 1

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BEAM BEARINGS OF THE SHOULDER BENT ON EB I-40 IN THE FOLLOWING MANNER:

- A) CLOSE LOOPS C AND D, AND DETOUR TRAFFIC AS SHOWN ON TMP-10 AND TMP-11.
- B) USE RSD 1101.02, SHEET 8 OF 19 TO CLOSE THE LEFT 2 LANES OF EB I-40, THEN SHIFT CHANNELIZED SINGLE LANE OF TRAFFIC TO MEDIAN LANE ON I-40.
- C) USE RSD 1101.03, SHEET 9 OF 9 TO CLOSE I-285/US 52 DURING BRIDGE JACKING OPERATIONS (SEE GENERAL NOTE 'C'), REOPEN AFTER JACKING OPERATIONS ARE COMPLETE.
- D) PERFORM WORK (SEE STRUCTURE PLANS).
- E) REMOVE LANE AND LOOP CLOSURES AT END OF WORK PERIOD.
- F) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

#### STEP 2

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BEAM BEARINGS OF THE SHOULDER BENT ON WB I-40 IN THE FOLLOWING MANNER:

- A) CLOSE LOOPS A AND B, AND DETOUR TRAFFIC AS SHOWN ON TMP-8 AND TMP-9.
- B) USE RSD 1101.02, SHEET 8 OF 19 TO CLOSE THE LEFT 2 LANES, THEN SHIFT CHANNELIZED SINGLE LANE OF TRAFFIC TO MEDIAN LANE ON I-40.
- C) USE RSD 1101.03, SHEET 9 OF 9 TO CLOSE I-285/US 52 DURING BRIDGE JACKING OPERATIONS (SEE GENERAL NOTE 'C'), REOPEN AFTER JACKING OPERATIONS ARE COMPLETE.
- D) PERFORM WORK (SEE STRUCTURE PLANS).
- E) REMOVE LANE AND LOOP CLOSURES AT END OF WORK PERIOD.
- F) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

#### STEP 3

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BEAM BEARINGS OF THE MEDIAN BENT IN THE FOLLOWING MANNER:

- A) USE RSD 1101.02, SHEET 4 OF 19 TO CLOSE THE LEFT (MEDIAN) LANE OF BOTH EB AND WB I-40 (OR USE RSD 1101.02, SHEET 8 OF 19 TO CLOSE THE LEFT 2 LANES OF EACH DIRECTION IF NEEDED).
- B) USE RSD 1101.03, SHEET 9 OF 9 TO CLOSE I-285/US 52 DURING BRIDGE JACKING OPERATIONS (SEE GENERAL NOTE 'C'), REOPEN AFTER JACKING OPERATIONS ARE COMPLETE.
- C) PERFORM WORK (SEE STRUCTURE PLANS).
- D) REMOVE LANE CLOSURES AT END OF WORK PERIOD.
- E) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

## PHASING

### PHASE 2 (SEE TMP-6 AND TMP-7)

#### NOTES:

STEP 1 AND STEP 4 MAY BE COMPLETED IN ANY ORDER, BUT NOT CONCURRENTLY.

WORK AT ANY ONE LOCATION DOES NOT NEED TO BE COMPLETED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

LOOP CLOSURES MAY ONLY BE IMPLEMENTED AS NEEDED TO COMPLETE ONGOING WORK WITHIN A STEP. ADDITIONAL LOOPS MAY NOT BE CLOSED SIMULTANEOUSLY.

#### STEP 1

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BRIDGE DECK JOINT SEALS ON THE RIGHT HALF OF THE MIDDLE LANE, OUTSIDE LANE, AND OUTSIDE SHOULDER OF NB I-285/US 52 IN THE FOLLOWING MANNER:

- A) CLOSE LOOPS A AND D, AND DETOUR TRAFFIC AS SHOWN ON TMP-8 AND TMP-11.
- B) USE RSD 1101.02, SHEETS 3 AND 6 OF 19 TO CLOSE THE RIGHT LANE OF NB I-285/US 52, THEN SHIFT CHANNELIZED SINGLE LANE OF TRAFFIC TO THE INSIDE LANE ON BRIDGE.
- C) PERFORM WORK (SEE STRUCTURE PLANS).
- D) REMOVE LANE AND LOOP CLOSURES AT END OF WORK PERIOD.
- E) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

#### STEP 2

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BRIDGE DECK JOINT SEALS ON THE RIGHT HALF OF THE MIDDLE LANE, OUTSIDE LANE, AND OUTSIDE SHOULDER OF SB I-285/US 52 IN THE FOLLOWING MANNER:

- A) CLOSE LOOPS B AND C, AND DETOUR TRAFFIC AS SHOWN ON TMP-9 AND TMP-10.
- B) USE RSD 1101.02, SHEETS 3 AND 6 OF 19 TO CLOSE THE RIGHT LANE OF SB I-285/US 52, THEN SHIFT CHANNELIZED SINGLE LANE OF TRAFFIC TO THE INSIDE LANE ON BRIDGE.
- C) PERFORM WORK (SEE STRUCTURE PLANS).
- D) REMOVE LANE AND LOOP CLOSURES AT END OF WORK PERIOD.
- E) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

#### STEP 3

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BRIDGE DECK JOINT SEALS ON THE MEDIAN SHOULDER, INSIDE LANE, AND LEFT HALF OF THE MIDDLE LANE OF NB I-285/US 52 IN THE FOLLOWING MANNER:

- A) CLOSE LOOP D AND DETOUR TRAFFIC AS SHOWN ON TMP-11.
- B) USE RSD 1101.02, SHEET 3 OF 19 TO CLOSE THE LEFT (MEDIAN) LANE OF NB I-285/US 52.
- C) SHIFT THE SINGLE LANE OF TRAFFIC TO THE RIGHT (AUXILIARY) LANE ON BRIDGE.
- D) PERFORM WORK (SEE STRUCTURE PLANS).
- E) REMOVE LANE AND LOOP CLOSURES AT END OF WORK PERIOD.
- F) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

#### STEP 4

COMPLETE BRIDGE WORK FOR THE REPLACEMENT OF THE BRIDGE DECK JOINT SEALS ON THE MEDIAN SHOULDER, INSIDE LANE, AND LEFT HALF OF THE MIDDLE LANE OF SB I-285/US 52 IN THE FOLLOWING MANNER:

- A) CLOSE LOOP B AND DETOUR TRAFFIC AS SHOWN ON TMP-9.
- B) USE RSD 1101.02, SHEET 3 OF 19 TO CLOSE THE LEFT (MEDIAN) LANE OF SB I-285/US 52.
- C) SHIFT THE SINGLE LANE OF TRAFFIC TO THE RIGHT (AUXILIARY) LANE ON BRIDGE.
- D) PERFORM WORK (SEE STRUCTURE PLANS).
- E) REMOVE LANE AND LOOP CLOSURES AT END OF WORK PERIOD.
- F) REPEAT EACH WORK PERIOD UNTIL COMPLETE.

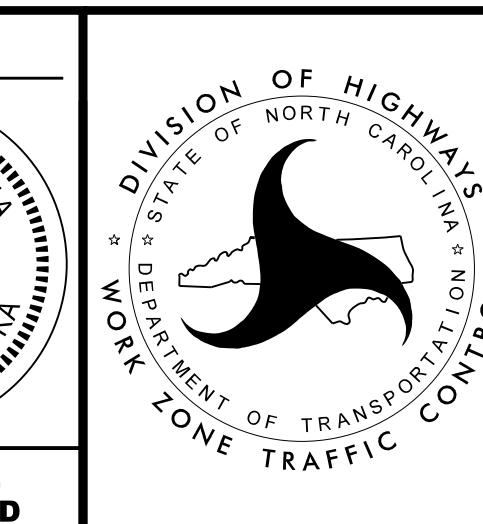
APPROVED: *Michael T. Ryepka*

DATE: 11/24/2025

SEAL

NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
MICHAEL T. RYEPKA  
15876

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



PHASING



HDR

HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

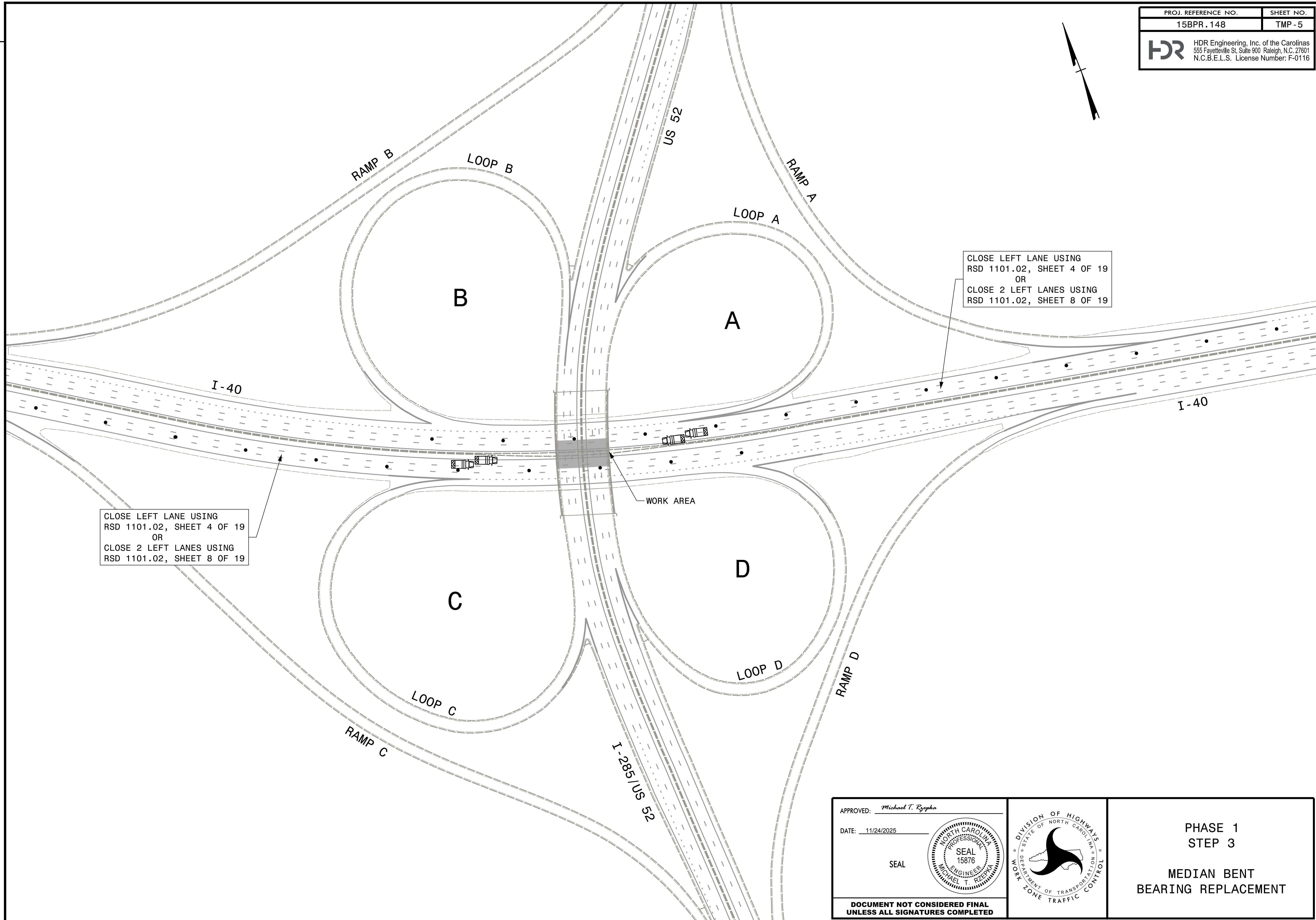
---

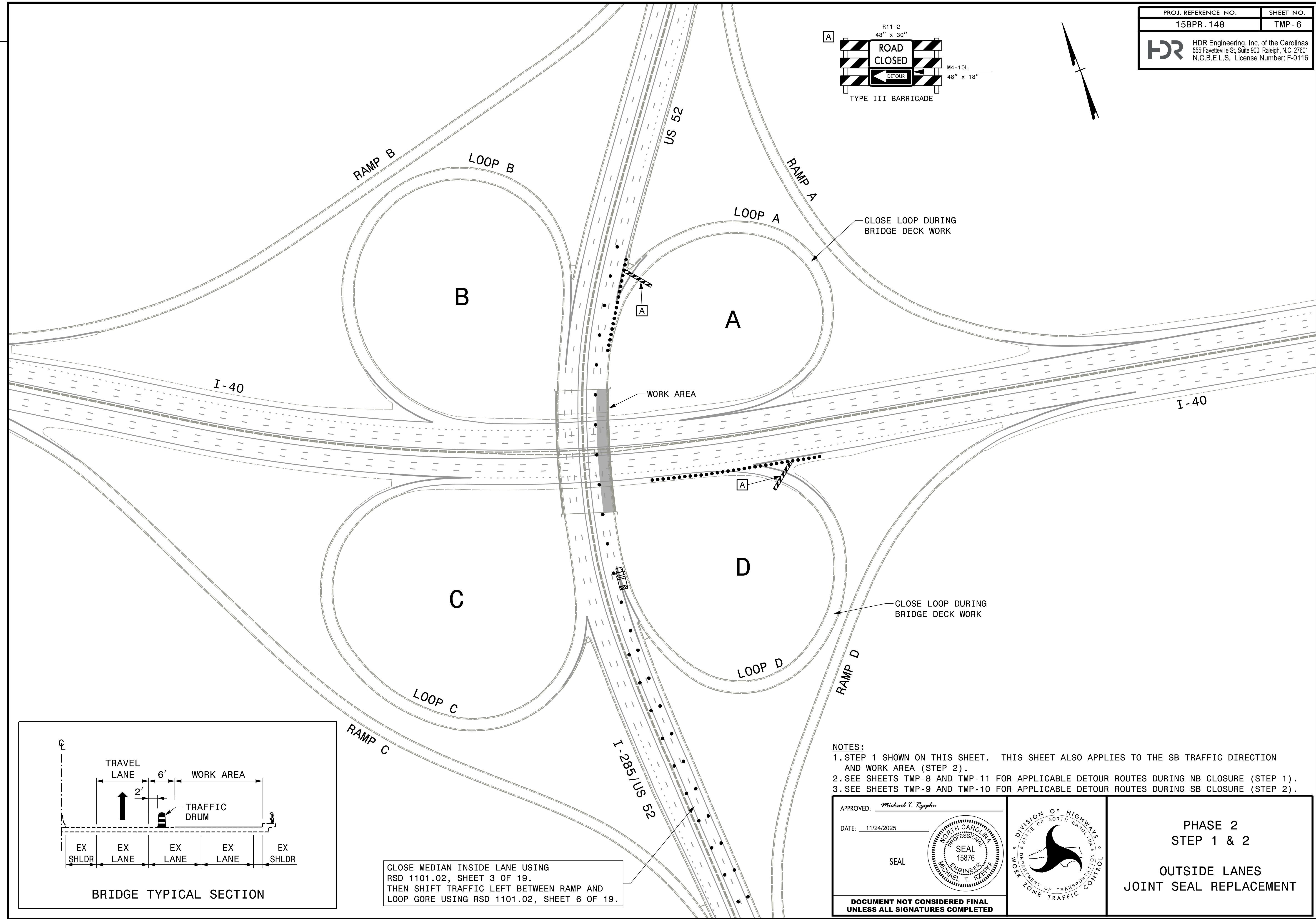
---

---

## REVISI観

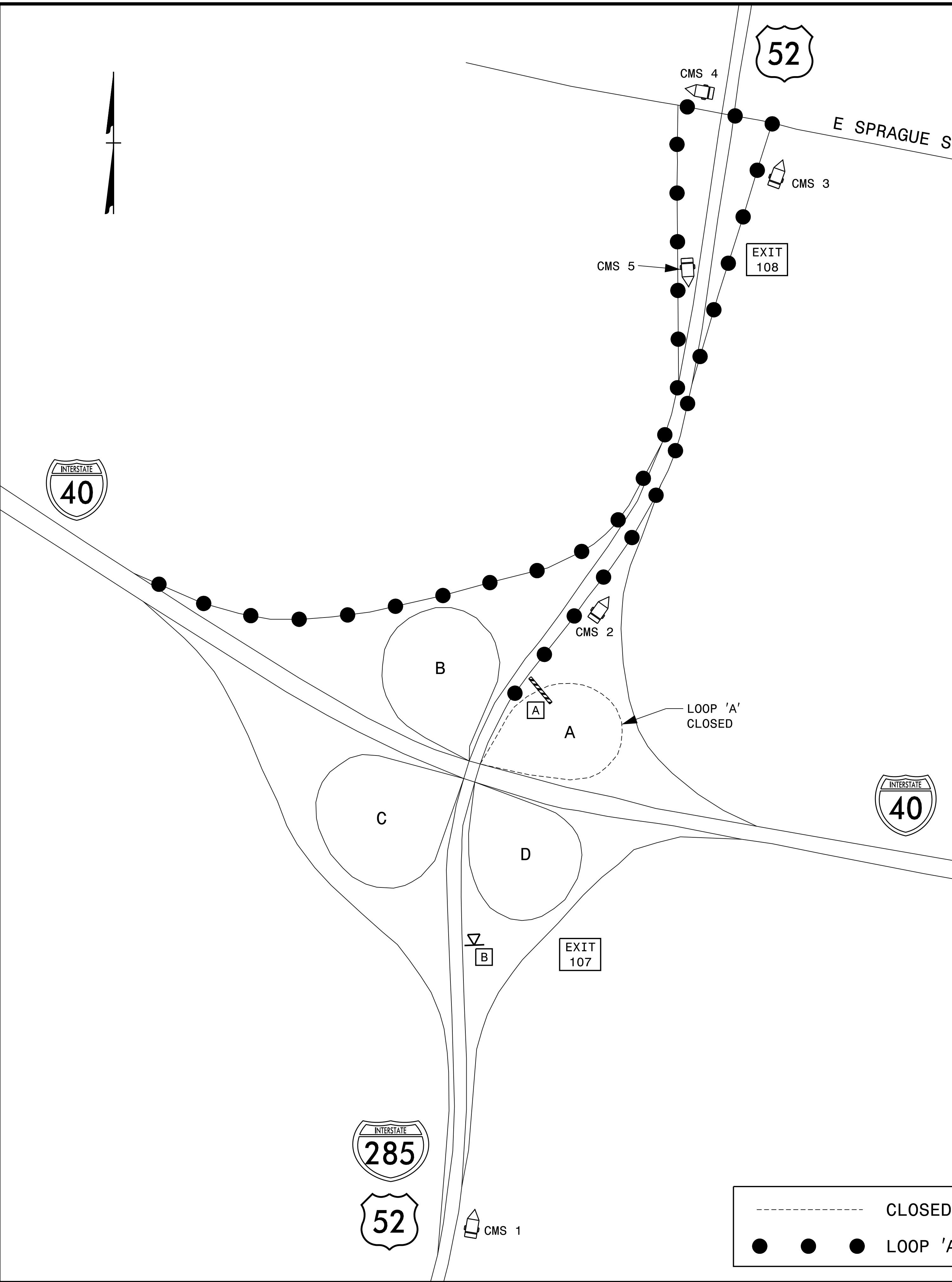
PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
JSER: \$USER\$ DATE: 11/24/2025 TIME: 11:47:13 AM  
ILE: pw:\pwhdruseas01a.intranet.hdr:HDR\_US\_East\_01A\Documents\3322\10447  
PENTABLE: NCDOT\_tcp.tbl



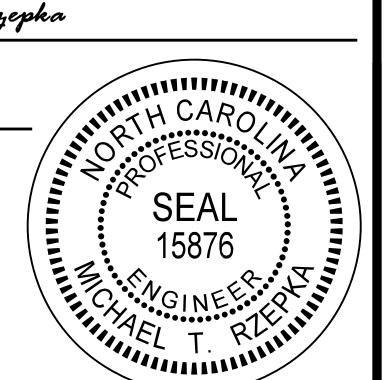




## REVISIONS

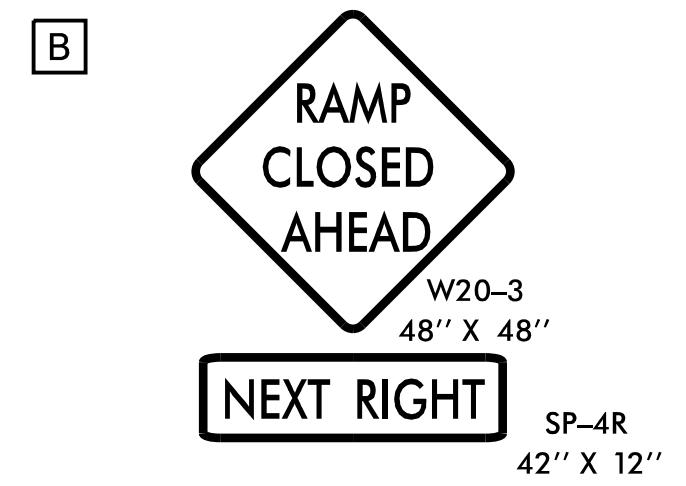
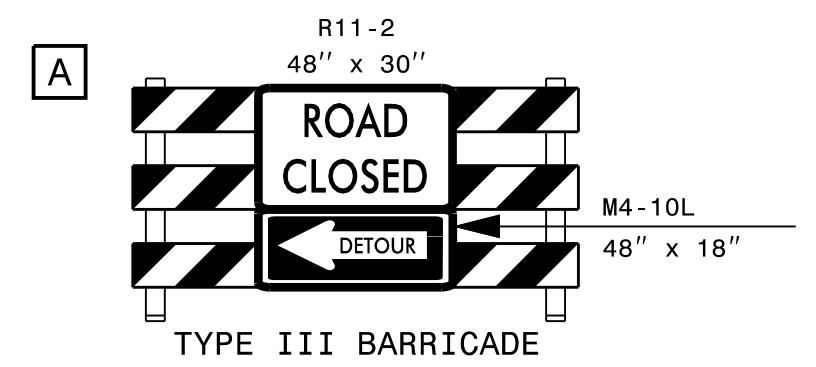


NOTES:  
 1. CMS PLACEMENT & MESSAGE AT THE DISCRETION OF THE ENGINEER.  
 2. DELINEATE CMS BOARD WITH DRUMS.

APPROVED: <i>Michael T. Ryepka</i>	DATE: 11/24/2025	
SEAL	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
		
US 52 LOOP 'A' OVERNIGHT CLOSURE		

PROJ. REFERENCE NO. 15BPR.148	SHEET NO. TMP-8
----------------------------------	--------------------

**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, NC 27601  
 N.C.B.E.L.S. License Number: F-0116



CMS 1

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 107B	FOLLOW DETOUR AHEAD
CLOSED	

CHANGEABLE MESSAGE SIGN

CMS 2

MESSAGE NO. 1	MESSAGE NO. 2
I-40 WEST DETOUR	USE EXIT 108

CHANGEABLE MESSAGE SIGN

CMS 3 & 4

MESSAGE NO. 1	MESSAGE NO. 2
I-40 W DETOUR	I-40 W DETOUR
<-----	<-----

CHANGEABLE MESSAGE SIGN

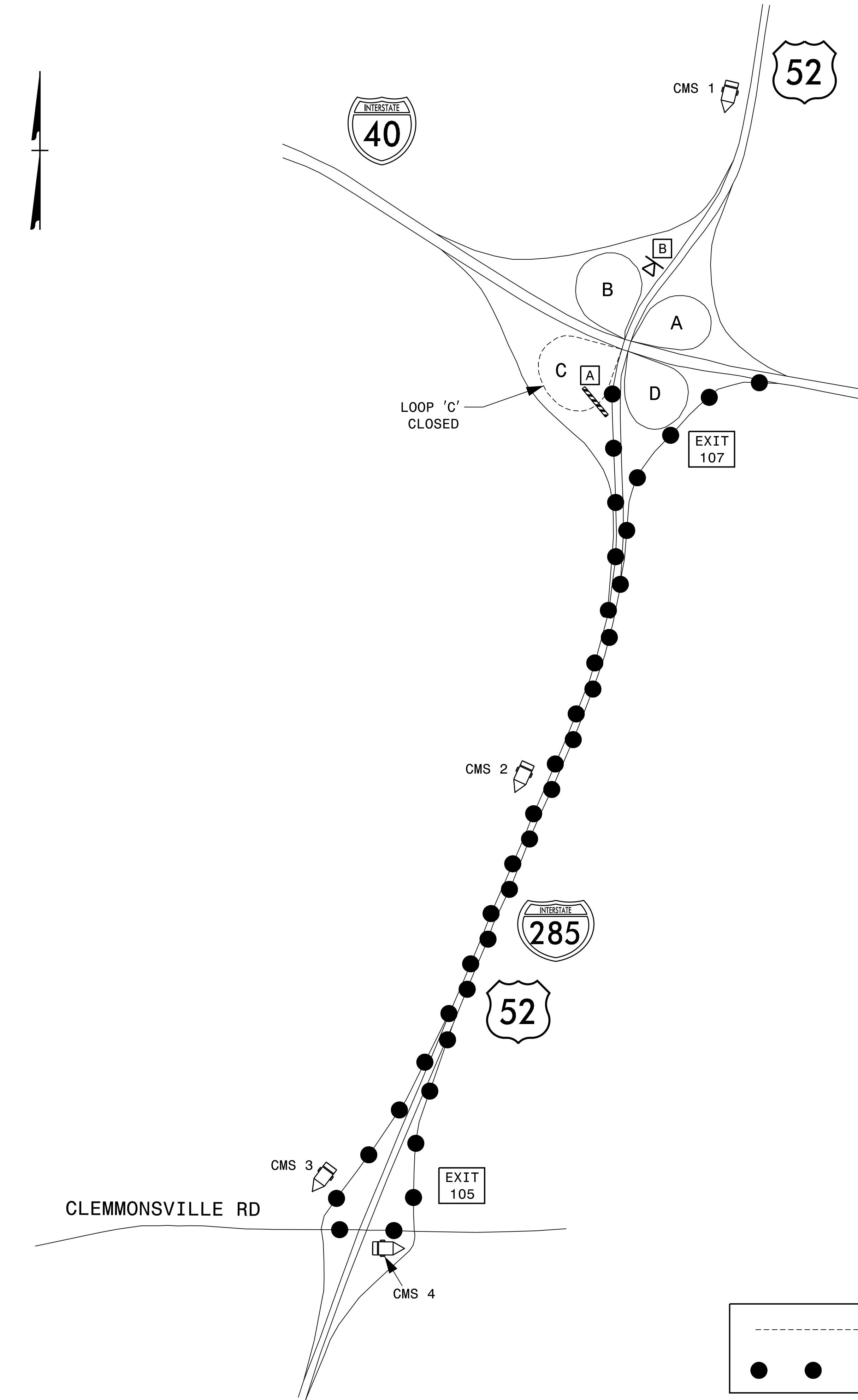
CMS 5

MESSAGE NO. 1	MESSAGE NO. 2
I-40 W DETOUR	STAY IN LANE

CHANGEABLE MESSAGE SIGN

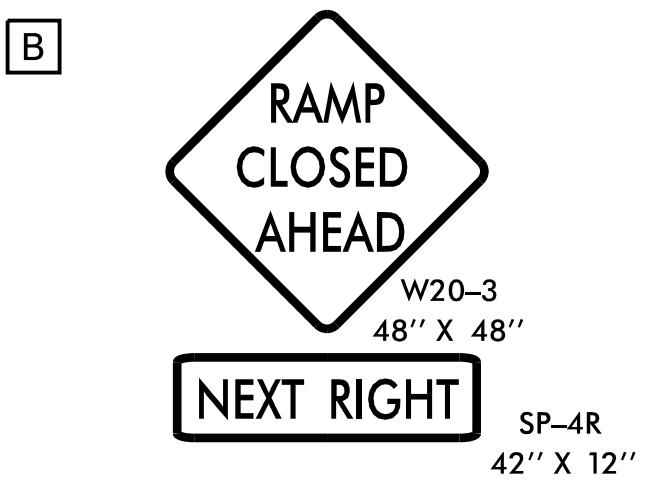
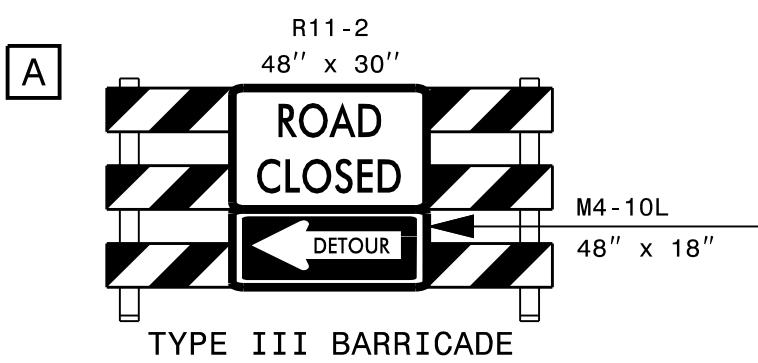


## REVISIONS



PROJ. REFERENCE NO. 15BPR.148 SHEET NO. TMP-10

**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, NC 27601  
 N.C.B.E.L.S. License Number: F-0116



CMS 1

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 107A	FOLLOW DETOUR AHEAD
CLOSED	

CHANGEABLE MESSAGE SIGN

CMS 2

MESSAGE NO. 1	MESSAGE NO. 2
I-40 EAST DETOUR	USE EXIT 105

CHANGEABLE MESSAGE SIGN

CMS 3 & 4

MESSAGE NO. 1	MESSAGE NO. 2
I-40 E DETOUR	I-40 E DETOUR
<-----	<-----

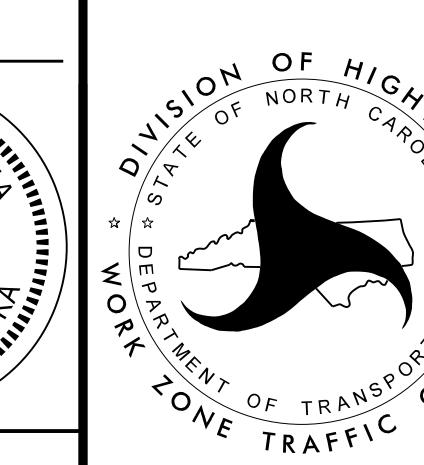
CHANGEABLE MESSAGE SIGN

NOTES:  
 1. CMS PLACEMENT & MESSAGE AT THE DISCRETION OF THE ENGINEER.  
 2. DELINEATE CMS BOARD WITH DRUMS.

APPROVED: *Michael T. Ryepka*  
 DATE: 11/24/2025

SEAL

NORTH CAROLINA  
 PROFESSIONAL  
 ENGINEER  
 MICHAEL T. RYEPKA  
 15876



US 52  
 LOOP 'C'  
 OVERNIGHT CLOSURE

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

The diagram illustrates a Type III Barricade (R11-2) with a central 'ROAD CLOSED' sign and a lower 'DETOUR' sign. The barricade is 48" x 30" and is supported by four M4-10L legs. The 'DETOUR' sign is 48" x 18". A letter 'A' is in a box in the top left corner.

**RAMP  
CLOSED  
AHEAD**

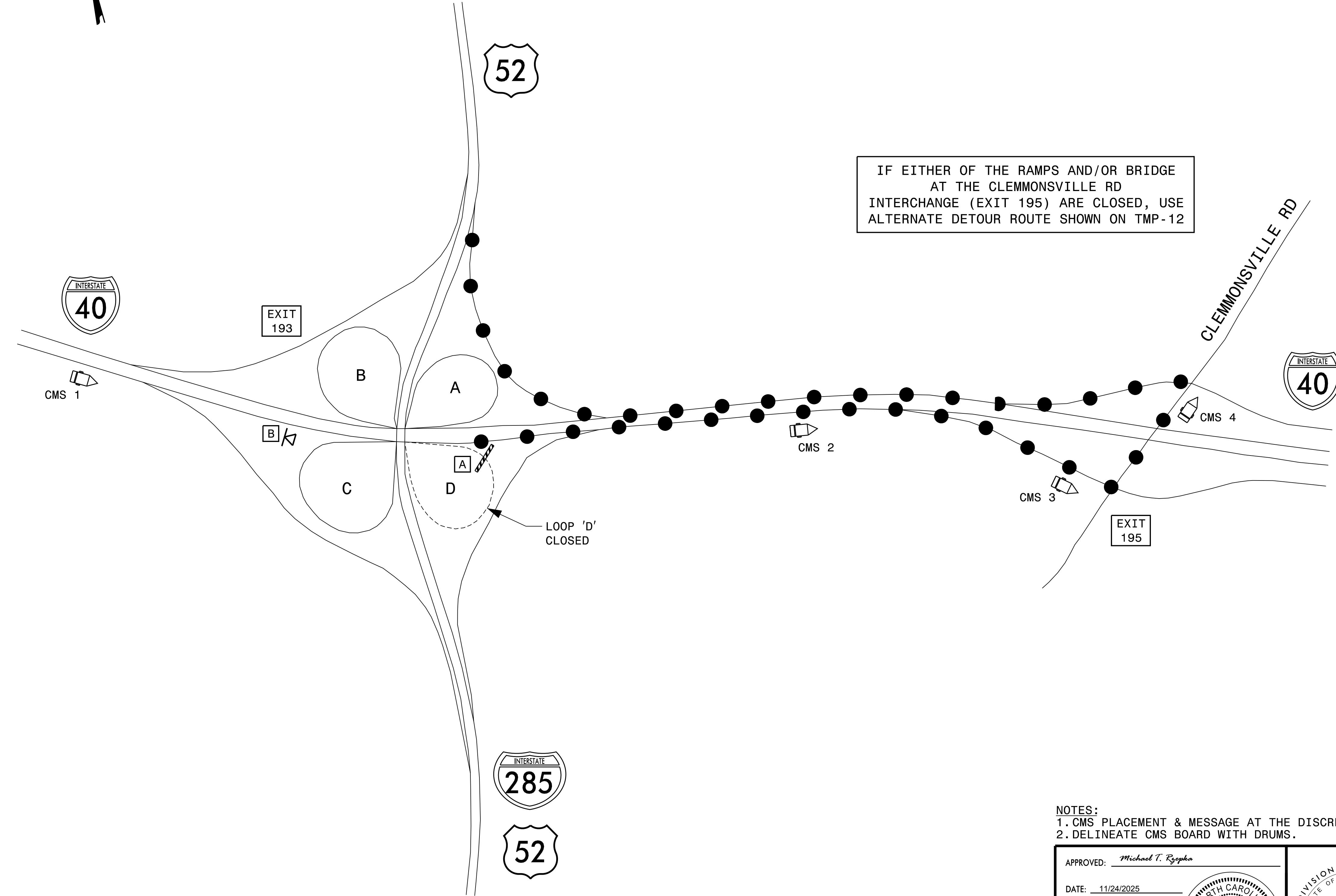
W20-3  
48'' X 48''

**NEXT RIGHT**

SP-4R  
42'' X 12''

**B**

CMS 1	
MESSAGE NO. 1	MESSAGE NO. 2
EXIT	FOLLOW
193B	DETOUR
CLOSED	AHEAD



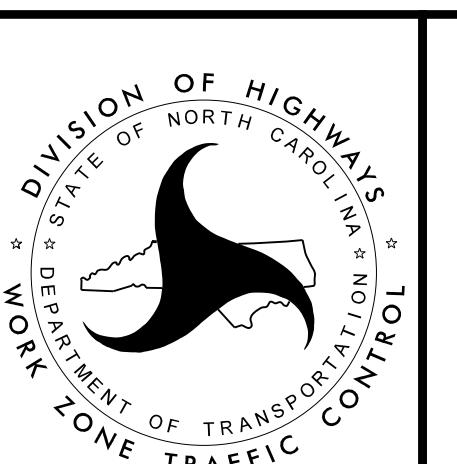
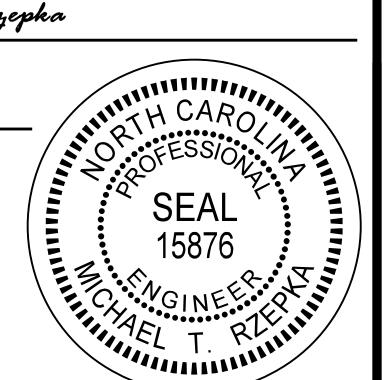
IF EITHER OF THE RAMPS AND/OR BRIDGE  
AT THE CLEMMONSVILLE RD  
INTERCHANGE (EXIT 195) ARE CLOSED, USE  
ALTERNATE DETOUR ROUTE SHOWN ON TMP-12

----- CLOSED ROAD  
● ● LOOP 'D' DETOUR ROUTE

NOTES:  
1. CMS PLACEMENT & MESSAGE AT THE DISCRETION OF THE ENGINEER.  
2. DELINEATE CMS BOARD WITH DRUMS

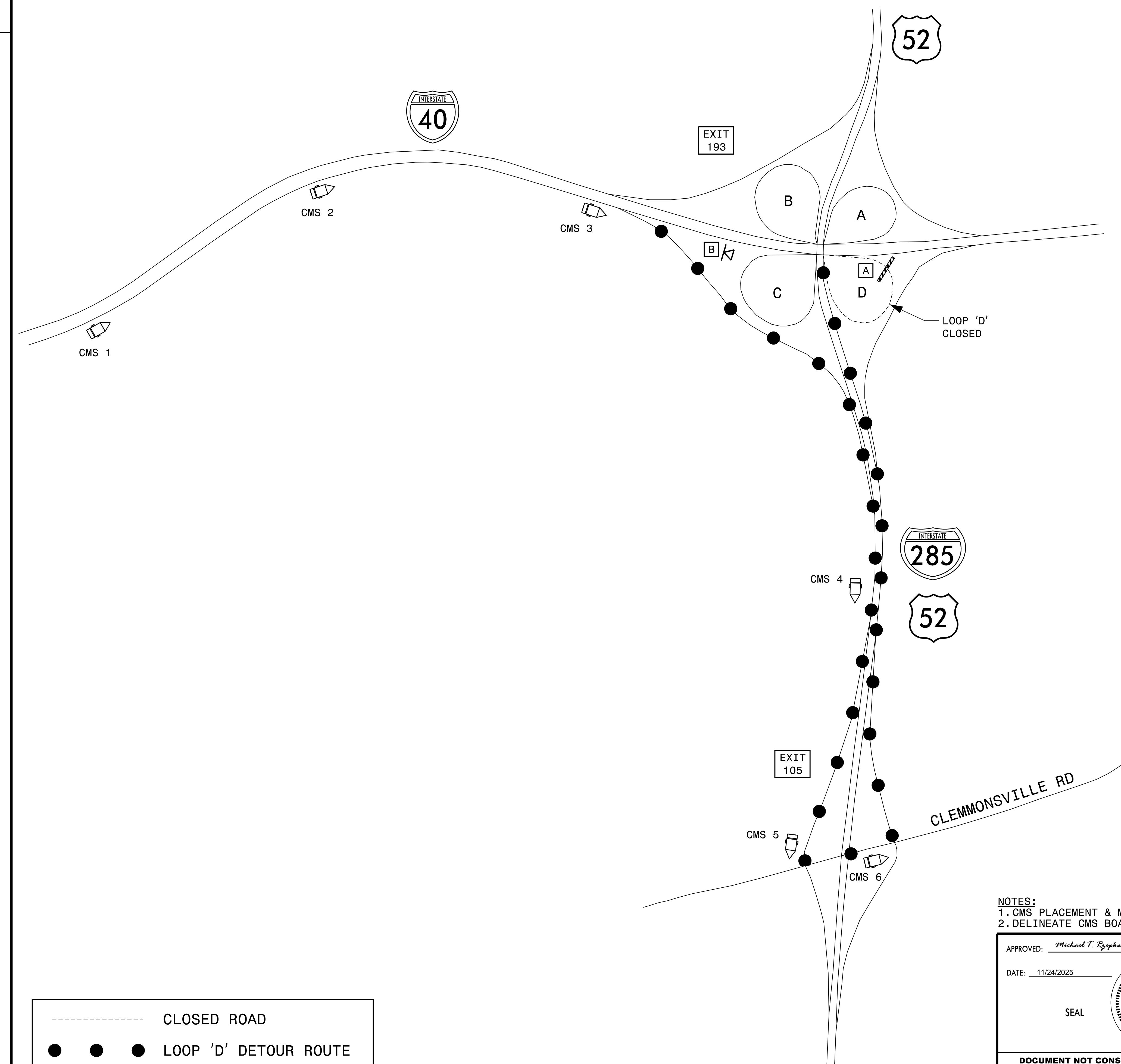
APPROVED *Michael T. Ruehka*

DATE: 11/20/2022



US 52  
LOOP 'D'  
OVERNIGHT CLOSURE

## REVISIONS

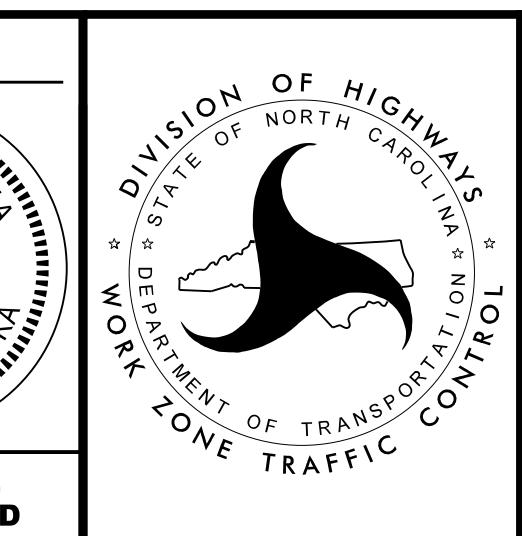


NOTES:  
 1. CMS PLACEMENT & MESSAGE AT THE DISCRETION OF THE ENGINEER.  
 2. DELINEATE CMS BOARD WITH DRUMS.

APPROVED: Michael T. Ryepka  
 DATE: 11/24/2025

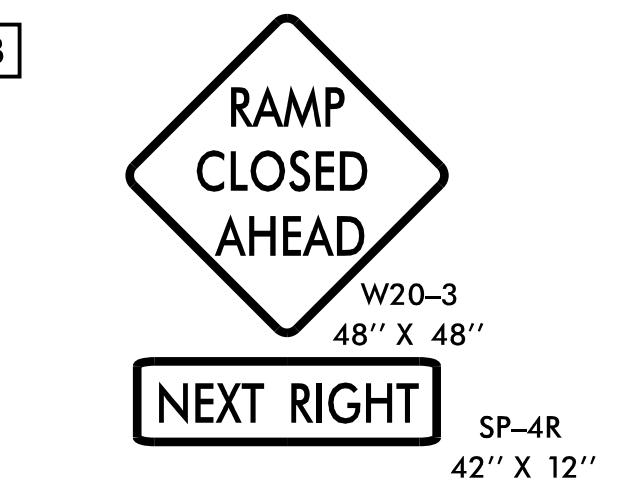
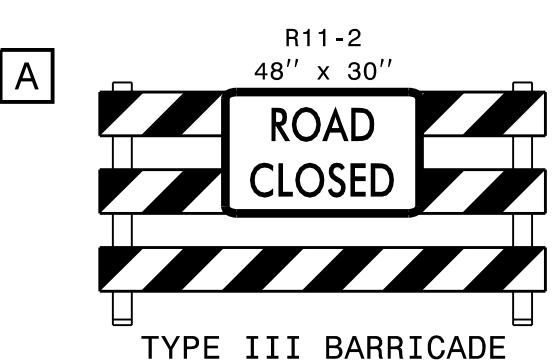
SEAL

15876  
 MICHAEL T. RYEPKA  
 ENGINEER  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL



DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

PROJ. REFERENCE NO. 15BPR.148 SHEET NO. TMP-12  
**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, NC 27601  
 N.C.B.E.L.S. License Number: F-0116



CMS 1

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 193B	FOLLOW DETOUR AHEAD
CLOSED	

CHANGEABLE MESSAGE SIGN

CMS 2

MESSAGE NO. 1	MESSAGE NO. 2
US 52 NORTH	USE EXIT 193A
DETOUR	

CHANGEABLE MESSAGE SIGN

CMS 3 & 4

MESSAGE NO. 1	MESSAGE NO. 2
US 52 N DETOUR	US 52 N DETOUR
----->	----->

CHANGEABLE MESSAGE SIGN

CMS 5 & 6

MESSAGE NO. 1	MESSAGE NO. 2
US 52 N DETOUR	US 52 N DETOUR
<-----	<-----

CHANGEABLE MESSAGE SIGN

US 52  
 LOOP 'D'  
 OVERNIGHT CLOSURE  
 ALTERNATE ROUTE