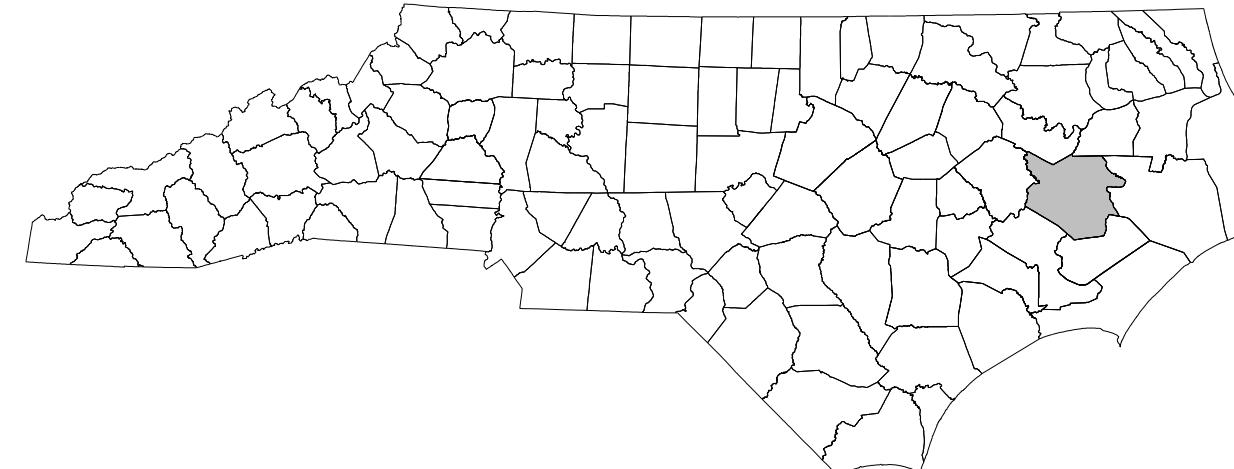


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

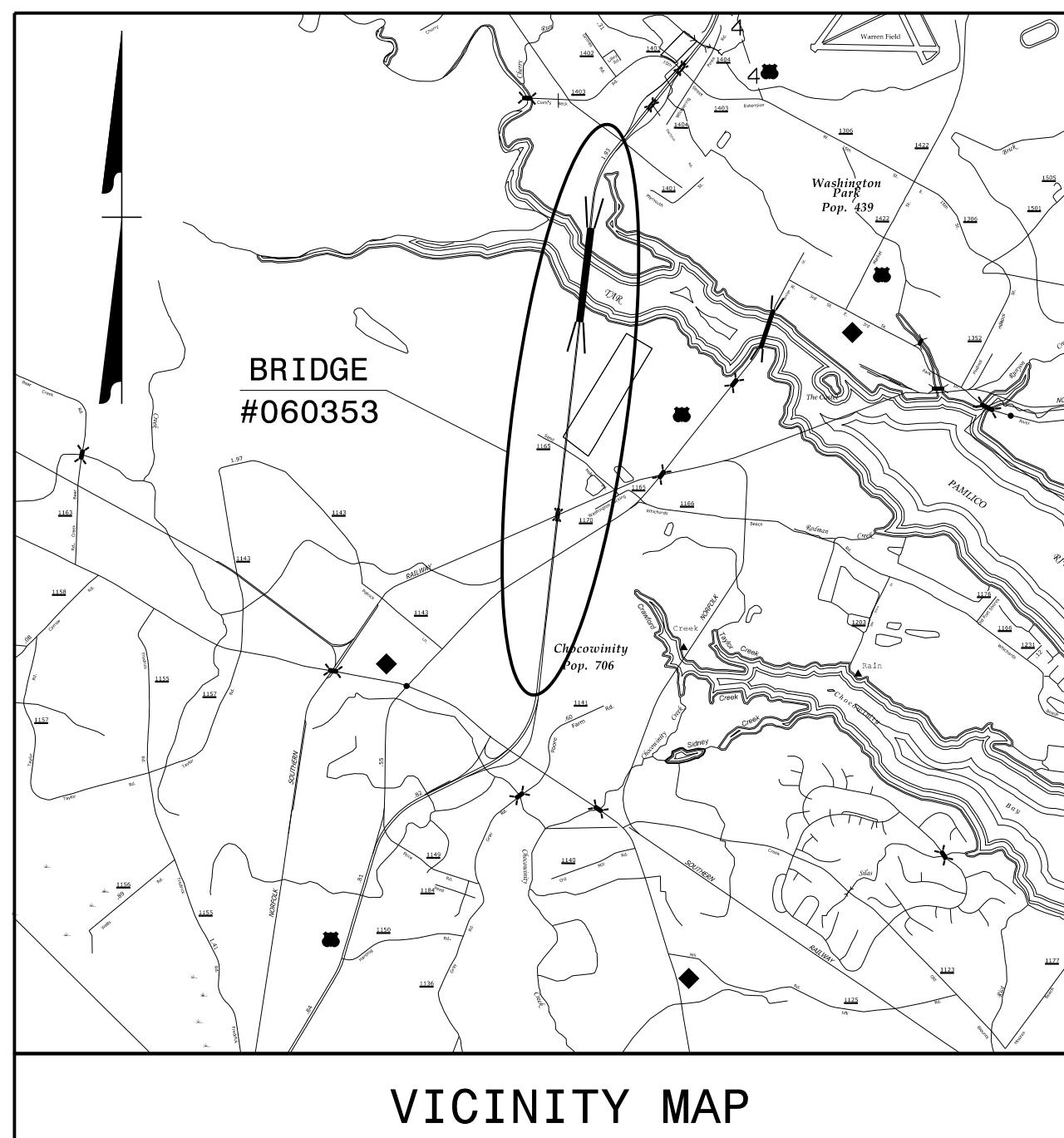
BEAUFORT COUNTY



LOCATION: BRIDGE NO. 353 OVER US 17 BUS & TAR RIVER ON US 17

TYPE OF WORK: BRIDGE PRESERVATION:

SILANE DECK, BARRIER, AND GIRDER TREATMENT, BRIDGE DECK JOINT REPLACEMENT, SHOTCRETE, EPOXY INJECTION



INDEX OF SHEETS

SHEET NO.

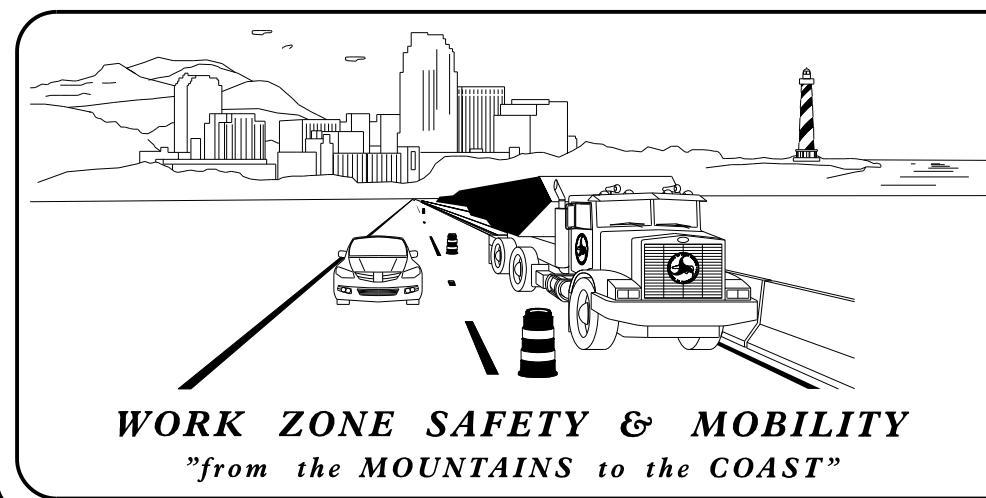
TITLE

TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND PAVEMENT MARKING SCHEDULE
TMP-2 - TMP-2A	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL AND LOCAL NOTES)
TMP-3	TYPICAL SECTIONS AND PHASING

15BPR.137

TIP PROJECT:

10/20/2025
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User:wmdebrew



PLANS PREPARED BY:

WILLIAM DEBREW
DESIGN ENGINEER

NCDOT CONTACTS:

KARMEN MILLER, PE
PROJECT ENGINEER
ALLA LYUDMIRSKAYA
PROJECT DESIGN ENGINEER



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

APPROVED: *Karmen Miller*
4FD58C1BB149C...

DATE: 11/25/2025

SEAL



SHEET NO.
TMP-1

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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
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
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

PAVEMENT MARKING SCHEDULE

TEMPORARY PAVEMENT MARKING

C20 COLD APPLIED PLASTIC TYPE 4 (REM. TAPE), WHITE EDGELINE (6")

C30 COLD APPLIED PLASTIC TYPE 4 (REM. TAPE), YELLOW EDGELINE (6")

FINAL PAVEMENT MARKING

V20 POLYUREA (6") WHITE EDGELINE

V22 POLYUREA (6") 10 FT. WHITE SKIP LINE

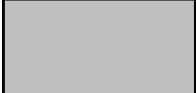
V30 POLYUREA (6") YELLOW EDGELINE

FINAL PAVEMENT MARKERS

MB CRYSTAL & RED, PERMANENT RAISED

LEGEND

GENERAL

- ← DIRECTION OF TRAFFIC FLOW
- (pedestrian) DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- ~~~~ TEMP. SHORING (LOCATION PURPOSES ONLY)
-  WORK AREA
-  REMOVAL
-  COMPLETED REHAB WORK
-  USER DEFINED (IF NEEDED)

SIGNALS

PAVEMENT MARKINGS

— EXISTING LINES
— TEMPORARY LINES

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  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



MANAGEMENT STRATEGIES

- USING LANE CLOSURES, COMPLETE ALL REQUIRED BRIDGE PRESERVATION WORK ON BRIDGE #060353 ON US 17 & US 17 BUS OVER TAR RIVER.

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 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

US 17 & US 17 BUS

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 6:00 AM DECEMBER 31st TO 10:00 PM JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 10:00 PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 10:00 PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 10:00 PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 10:00 PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 10:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 10:00 PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 10:00 PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 10:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

GENERAL NOTES CONTINUED

B) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 17	MONDAY THROUGH FRIDAY 6:00AM TO 10:00PM	30 MIN. SHOTCRETE, SILANE PREP AND, APPLICATION
US 17 BUS	AND SATURDAY & SUNDAY 7:00AM TO 10:00PM	

C) 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

D) 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.

E) 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.

F) 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. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

G) 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.

H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 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 COMPAKTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) 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) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

L) 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.

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

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

TRAFFIC CONTROL DEVICES

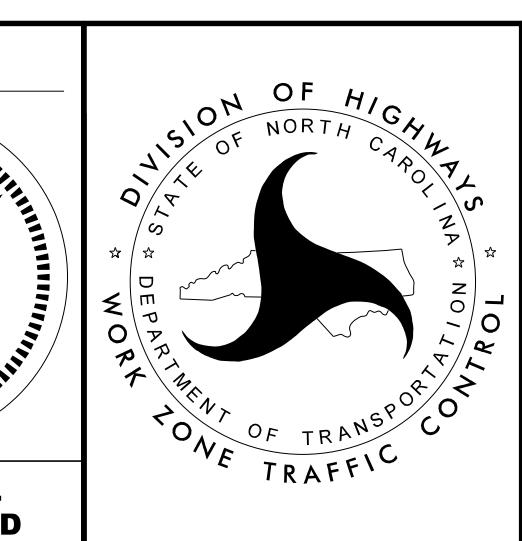
O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135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

P) 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.

DocuSigned by:
Karmen Miller
4F1D588C1BB149C

APPROVED: _____
DATE: 12/04/2025
046203

SEAL
KARMEN MILLER
PROFESSIONAL
ENGINEER



TRANSPORTATION
OPERATION
PLAN

GENERAL NOTES CONTINUED

PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
US 17 (ON STRUCTURE)	COLD APPLIED PLASTIC TYPE IV (6")	NA

R) INSTALL FINAL PAVEMENT MARKINGS AND FINAL PAVEMENT MARKERS ON STRUCTURE ALONG US 17 AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
US 17 (ON STRUCTURE)	POLYUREA (6")	PERMANENT RAISED

S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

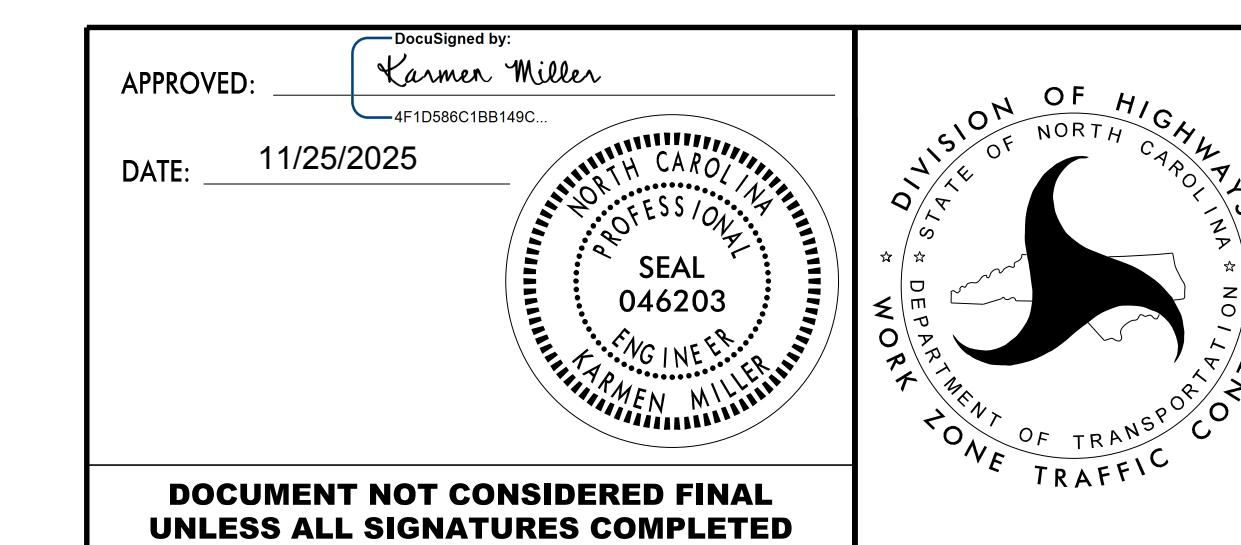
T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

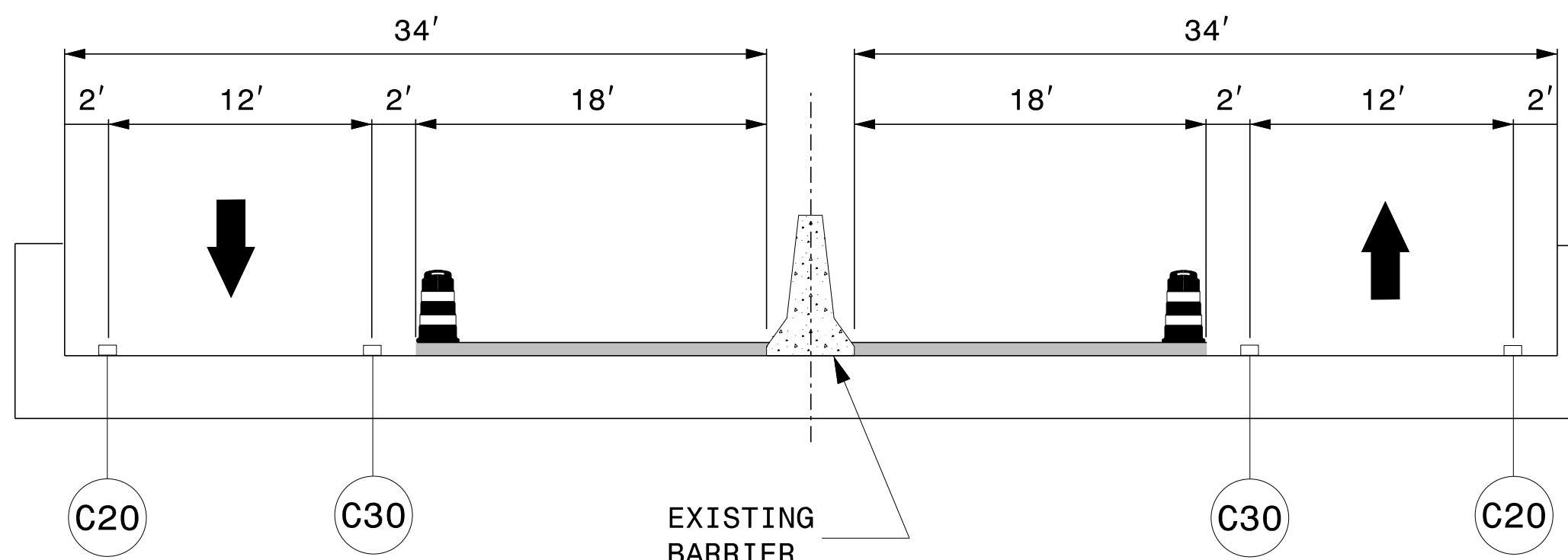
MISCELLANEOUS

U) 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.

LOCAL NOTES

1. CONTRACTOR SHALL PERFORM ALL WORK AS SHOWN IN THE CONTRACT AND STRUCTURES PLANS IN ACCORDANCE WITH ALL COAST GUARD REGULATIONS & REQUIREMENTS.
2. CONTRACTOR SHALL REVIEW AND RECORD THE EXISTING PAVEMENT MARKINGS AND MARKERS PRIOR TO CONSTRUCTION. USE THIS RECORD OF EXISTING PAVEMENT MARKINGS AND MARKERS IN CONJUNCTION WITH THE ROADWAY STANDARD DRAWINGS TO RE-ESTABLISH THE EXISTING PAVEMENT MARKINGS AND MARKERS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. AT THE END OF EACH WORK PERIOD REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN OBLITERATED BY WORK OPERATIONS. REMOVE ANY TRAFFIC CONTROL DEVICES REMAINING ON THE TRAVEL LANES AND RESTORE EXISTING TRAFFIC PATTERN.
4. CONTRACTOR SHALL, WHEN NOTIFIED, ASSIST WIDE LOAD VEHICLES THRU THE WORK AREA. THIS ASSISTANCE MAY REQUIRE THAT TRAFFIC BE STOPPED IN ONE DIRECTION UNTIL THE WIDE LOAD VEHICLES HAVE CLEARED THE WORK AREA.
5. USE SEQUENTIAL FLASHING WARNING LIGHTS ON TAPERED DRUMS.





**PHASE 1
TRAFFIC PATTERN**

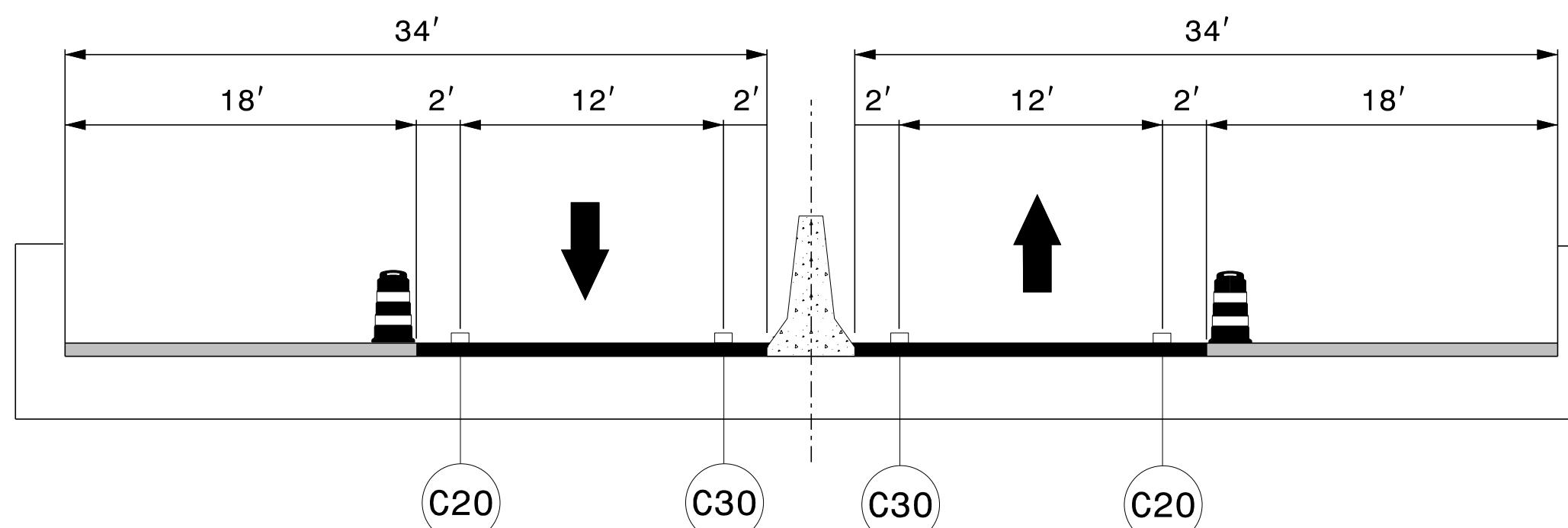
NOTE:
SKINNY DRUMS MAY BE USED IN LIEU OF DRUMS IN TANGENT SECTIONS OF LANE CLOSURES AT 80' SPACING.

* USING RSD 1101.01, SHEET 1 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON US 17, & US 17 BUS.

PHASE 1 TRAFFIC PATTERN:

USING RSD 1101.02, SHEET 4 OF 19, AND RSD 1101.03, SHEET 9 OF 9 AS NECESSARY, PERFORM THE FOLLOWING:

- INSTALL TEMPORARY PAVEMENT MARKINGS ON US 17 AS SHOWN, AND SHIFT TRAFFIC ONTO OUTSIDE LANES IN TEMPORARY PATTERN.
- PERFORM THE REQUIRED REPAIR/CONSTRUCTION BRIDGE WORK ON INSIDE LANES.
- INSTALL TEMPORARY PAVEMENT MARKINGS ON NEWLY CONSTRUCTED INSIDE LANES OF US 17.

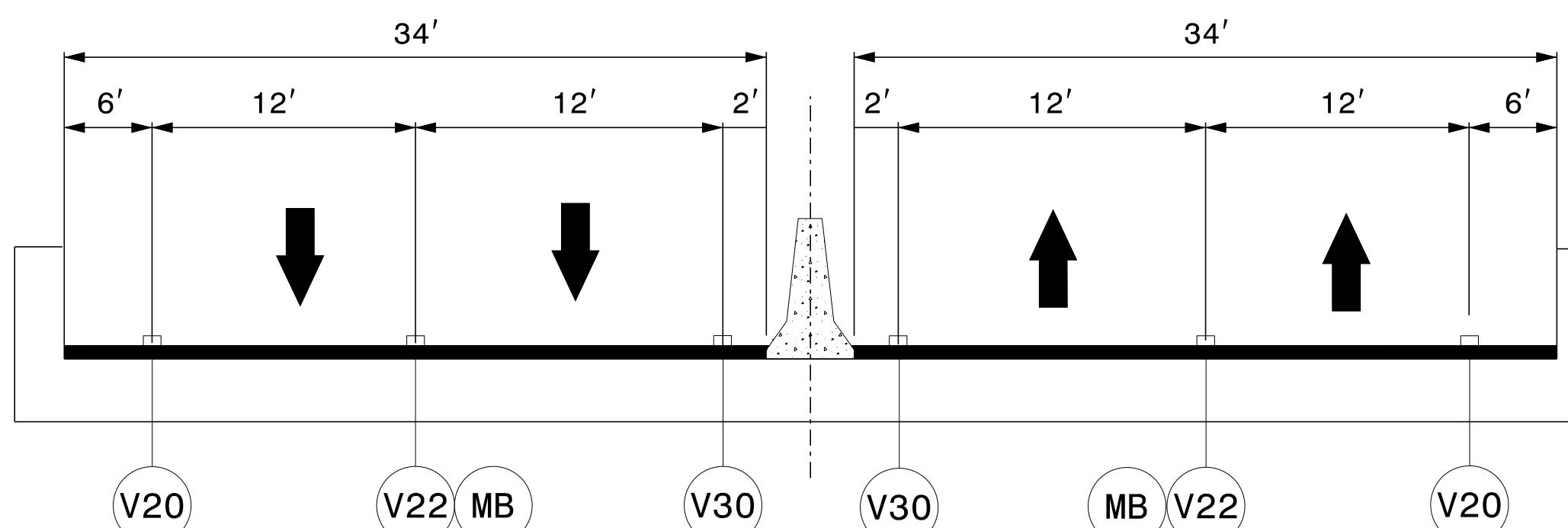


**PHASE 2
TRAFFIC PATTERN**

PHASE 2 TRAFFIC PATTERN:

USING RSD 1101.02, SHEET 4 OF 19, AND RSD 1101.03, SHEET 9 OF 9 AS NECESSARY, PERFORM THE FOLLOWING:

- SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED INSIDE LANES OF US 17 IN TEMPORARY PATTERN AS SHOWN.
- PERFORM THE REQUIRED REPAIR/CONSTRUCTION BRIDGE WORK ONTO OUTSIDE LANES.



**PHASE 3
TRAFFIC PATTERN**

PHASE 3 TRAFFIC PATTERN:

USING RSD 1101.02, SHEET 4 OF 19, AND RSD 1101.03, SHEET 9 OF 9 AS NECESSARY, PERFORM THE FOLLOWING:

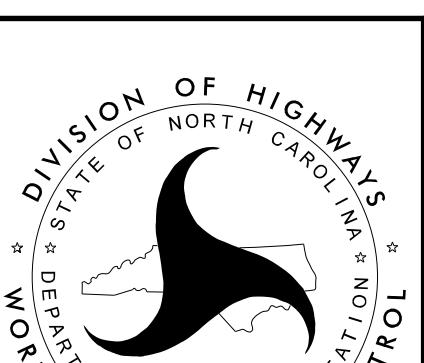
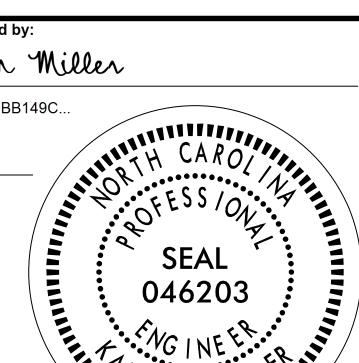
- INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ON THE FINAL SURFACE COURSE OF US 17, AND PLACE TRAFFIC IN THE EXISTING PATTERN AS SHOWN.
- REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

TEMPORARY PAVEMENT MARKING LEGEND	FINAL PAVEMENT MARKING LEGEND	FINAL PAVEMENT MARKERS LEGEND
COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) WHITE EDGELINE (6")	POLYUREA (6") WHITE EDGELINE	CRYSTAL & RED, PERMANENT RAISED
COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) YELLOW EDGELINE (6")	POLYUREA (6") 10 FT. WHITE SKIP LINE POLYUREA (6") YELLOW EDGELINE	

DocuSigned by:
Kammen Miller
4FD0586C1BB149C..

APPROVED:

DATE: 11/25/2025



**TYPICAL SECTIONS
AND PHASING**