

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**CATAWBA, GASTON AND IREDELL  
COUNTIES**



BRIDGE #142 CATAWBA, SEE SHEET TMP-3

BRIDGE #149 GASTON, SEE SHEET TMP-4

BRIDGE #104 IREDELL, SEE SHEET TMP-5

**INDEX OF SHEETS**

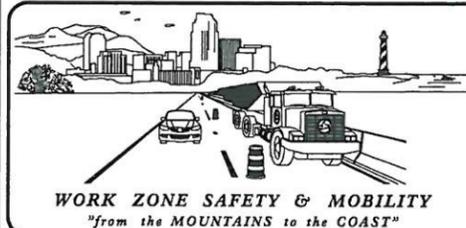
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	ROADWAY STANDARD DRAWINGS, DETAIL AND LEGEND
TMP-2	GENERAL NOTES
TMP-2A	GENERAL NOTES (CONT'D)
TMP-3	BRIDGE #142 CATAWBA COUNTY PHASING
TMP-3A	BRIDGE #142 CATAWBA COUNTY DETAIL
TMP-4	BRIDGE #149 GASTON COUNTY PHASING
TMP-4A - 4D	BRIDGE #149 GASTON COUNTY DETAILS
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TMP-5A - 5C	BRIDGE #104 IREDELL COUNTY DETAILS

SHEET NO.  
TMP-1

**12B.103611**

**TIP PROJECT:**

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL  
1561 MAIL SERVICE CENTER (MSC) RALPH, NC 27689-1561  
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)  
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER  
G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER  
J. W. GILSTRAP *JWG* TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
S.N. GREEN TRAFFIC CONTROL DESIGN ENGINEER



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## ROADWAY STANDARD DRAWINGS

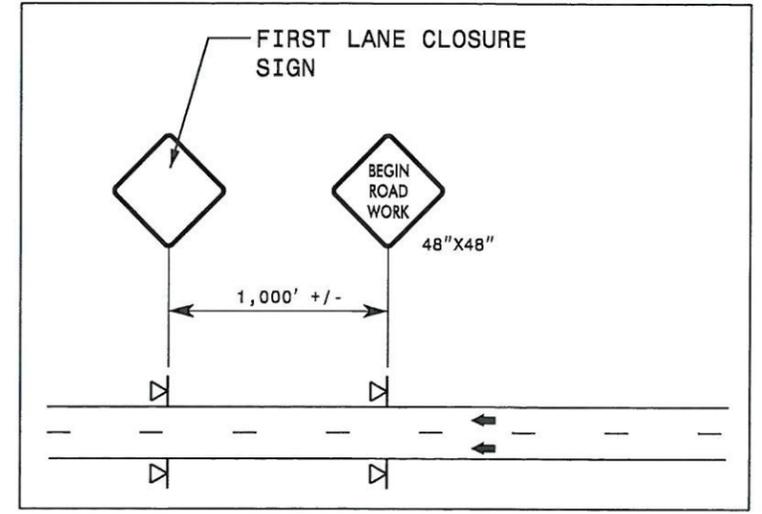
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
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	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION

## LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
- 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
- SIGNALS**
- EXISTING

## BEGIN ROADWORK SIGN DETAIL



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APPROVED: _____	DATE: _____	
ROADWAY STANDARD DRAWINGS, DETAIL & LEGEND		

# 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 UNDESIRABLE 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
ONE LANE ON SB I-85	MONDAY THRU FRIDAY, 5:00AM TO 10:00PM SATURDAY & SUNDAY, 7:00AM TO 10:00PM
TWO LANES ON SB I-85	MONDAY THRU FRIDAY, 5:00AM TO 12:00 MIDNIGHT SATURDAY & SUNDAY, 6:00AM TO 12:00 MIDNIGHT
NB US-321	MONDAY THRU SUNDAY, 6:00AM TO 8:00PM
WB US-64/90	MONDAY THRU SUNDAY, 6:00AM TO 8:00PM

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

- ROAD NAME
1. I-85
  2. US-321
  3. US-64/90

### 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 5:00AM DECEMBER 31st TO 10:00PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 5:00AM THURSDAY AND 10:00PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00AM FRIDAY TO 10:00PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00AM THE DAY BEFORE INDEPENDENCE DAY AND 10:00PM THE DAY AFTER INDEPENDENCE DAY.  
  
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 10:00PM THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00AM FRIDAY AND 10:00PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00AM TUESDAY AND 10:00PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 10:00PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR ANY NASCAR EVENT, AT THE CHARLOTTE MOTOR SPEEDWAY, BETWEEN THE HOURS OF 5:00AM THE THURSDAY BEFORE THE WEEKEND OF THE EVENT AND 10:00PM THE FOLLOWING MONDAY AFTER THE EVENT.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85SB	NEVER
US-321	NEVER
US-64/90	NEVER

### 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) 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.

### TRAFFIC PATTERN ALTERATIONS

- I) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

- J) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLANS.  
  
PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.
- K) 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.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

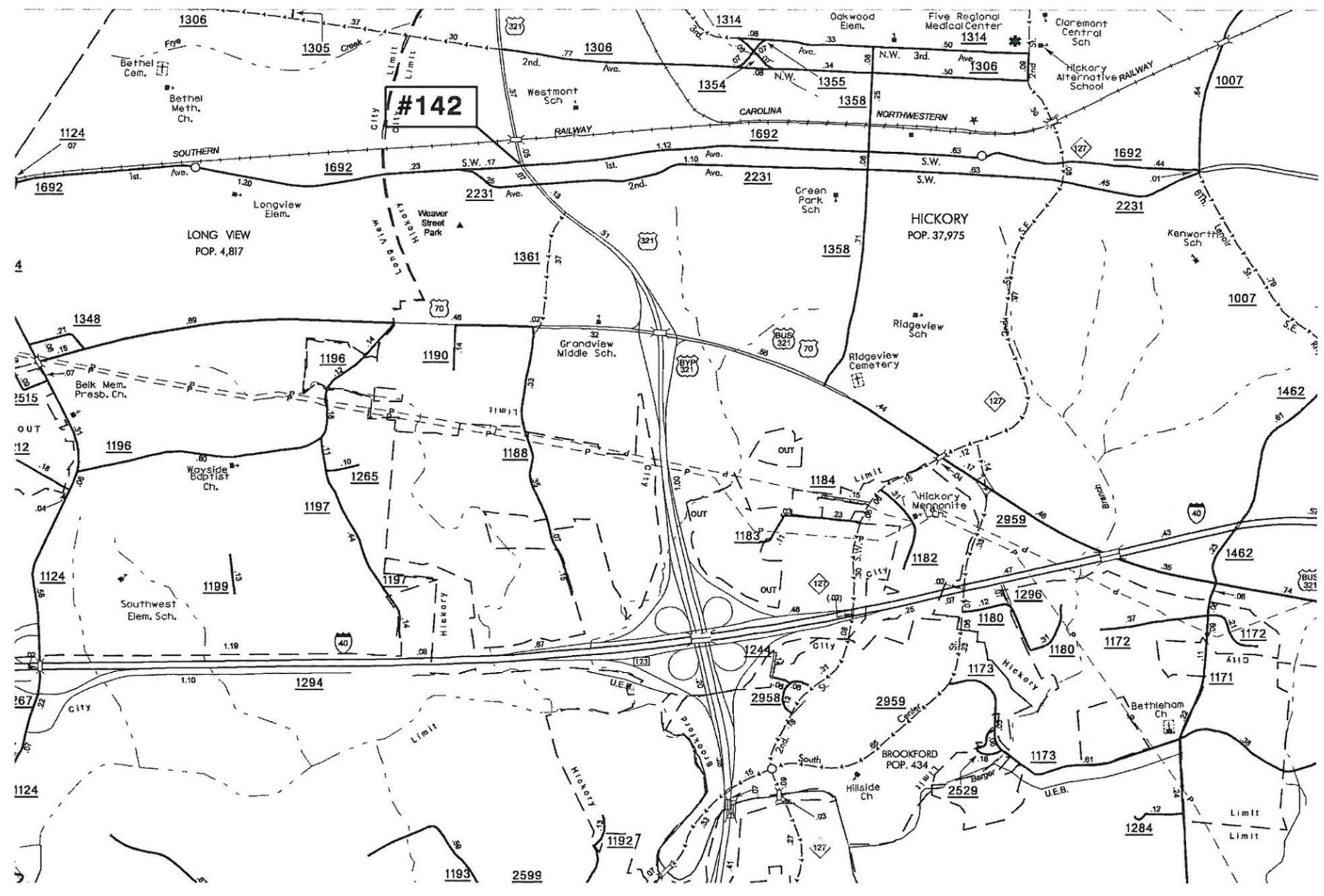
- M) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS) FOR ADDITIONAL REQUIREMENTS.
- N) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 1000 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### MISCELLANEOUS

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

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APPROVED: _____ DATE: _____  		<h2 style="margin: 0;">GENERAL NOTES</h2>
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## PHASING

NOTE: THE CONTRACTOR SHALL ONLY WORK IN ONE BRIDGE LOCATION AT A TIME, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.

### PHASE I

STEP 1: - CONTRACTOR SHALL, USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15 & SHEET TMP-3A, TO CLOSE EITHER LANE OF NB US-321 AND PERFORM REQUIRED WORK AS STATED IN THE CONTRACT.

NOTE: THE CONTRACTOR SHALL INSTALL "BEGIN ROAD WORK" SIGN(S) PRIOR TO FIRST LANE CLOSURE SIGN(S) AS SHOWN IN DETAIL ON SHEET TMP-1A.

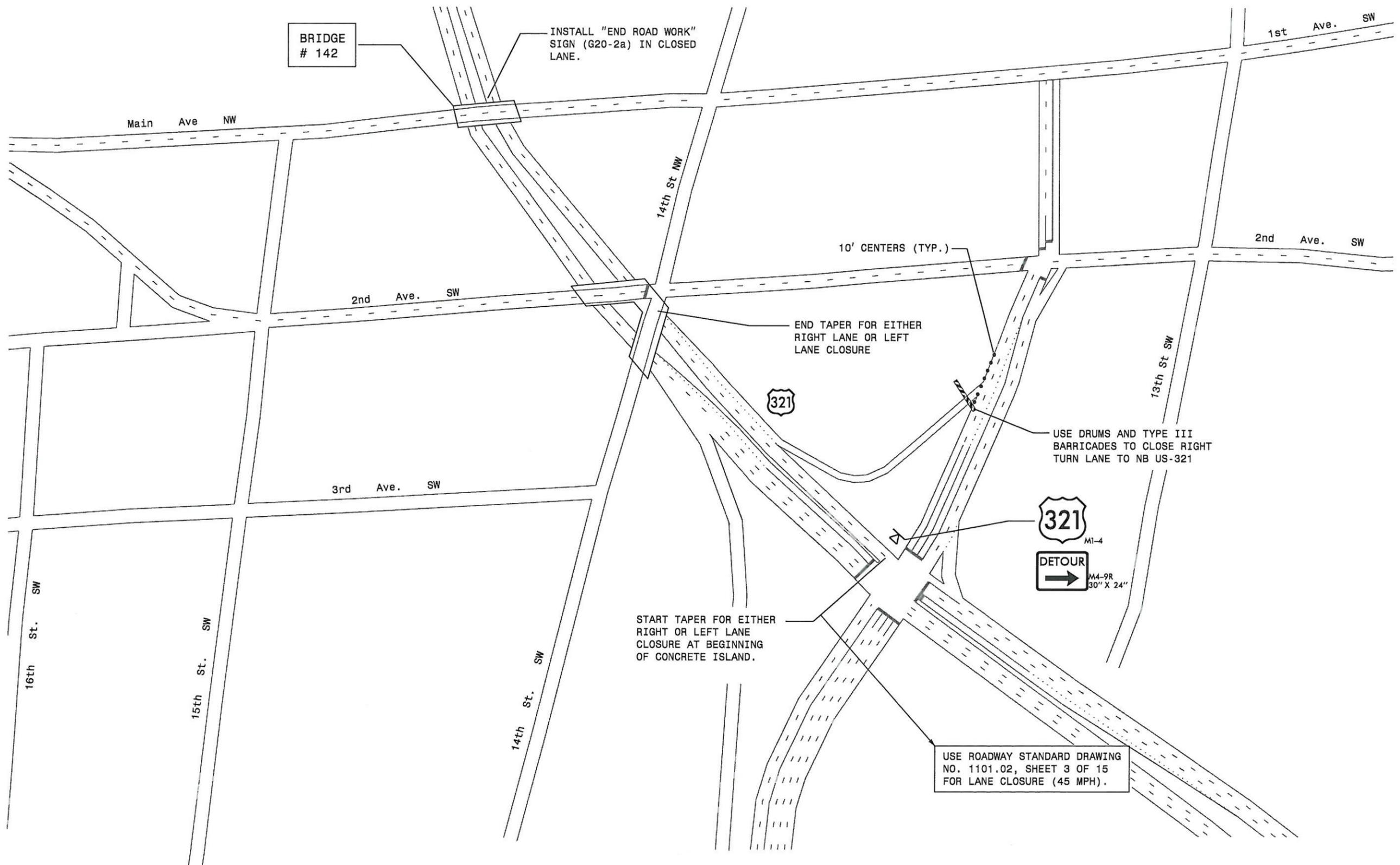
NOTE: AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL DRUMS & TYPE III BARRICADES TO CLOSE THE RIGHT TURN LANE FROM 13TH STREET SW TO NB US-321 AND INSTALL DETOUR SIGNS AS SHOWN ON SHEET TMP-3A.

STEP 2: - AT THE END OF THE WORK PERIOD, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN BRIDGE #142 LOCATION TO TRAFFIC.

STEP 3: - REPEAT PHASE I, STEPS 1 & 2 UNTIL ALL REQUIRED CONTRACT WORK IS COMPLETED.

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<h3>BRIDGE #142</h3> <h3>CATAWBA COUNTY</h3> <h3>PHASING</h3>			



BRIDGE # 142

INSTALL "END ROAD WORK" SIGN (G20-2a) IN CLOSED LANE.

10' CENTERS (TYP.)

END TAPER FOR EITHER RIGHT LANE OR LEFT LANE CLOSURE

USE DRUMS AND TYPE III BARRICADES TO CLOSE RIGHT TURN LANE TO NB US-321

START TAPER FOR EITHER RIGHT OR LEFT LANE CLOSURE AT BEGINNING OF CONCRETE ISLAND.

USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15 FOR LANE CLOSURE (45 MPH).

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APPROVED:	DATE:		<b>BRIDGE #142 LANE CLOSURES</b>
	2 APR 13		

# PHASING

NOTE: THE CONTRACTOR SHALL ONLY WORK IN ONE BRIDGE LOCATION AT A TIME, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.

NOTE: USE EXISTING OVERHEAD DYNAMIC MESSAGE SIGNS ON I-85, AS DIRECTED BY THE ENGINEER, TO INFORM & ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS DURING CONSTRUCTION.

## PHASE I

STEP 1: - THE CONTRACTOR SHALL UTILIZE PHASE I, STEP 1A OR STEP 1B TO PERFORM THE WORK AS STATED IN THE CONTRACT.

NOTE: IF REQUIRED FOR PAINTING PURPOSES ONLY, THE CONTRACTOR MAY UTILIZE RSD 1101.02, SHEET 4 OF 15, TO CLOSE THE LEFT LANE OF SB I-85 UNDER BRIDGE #149 AND INSTALL WORK ZONE SIGNS ALONG ON-RAMP FROM NC 273 (EXIT 27) AS SHOWN ON SHEET TMP-4A.

A. - CONTRACTOR SHALL, USING SHEET TMP-4B TO CLOSE THE RIGHT LANE OF SB I-85 UNDER BRIDGE #149 AND PERFORM REQUIRED WORK AS STATED IN THE CONTRACT.

NOTE: THE CONTRACTOR SHALL INSTALL WORK ZONE SIGNS ALONG ON-RAMP FROM NC 273 (EXIT 27) AS SHOWN ON SHEET TMP-4A.

NOTE: CONTRACTOR SHALL MAINTAIN ACCESS TO OFF-LOOP TO BELMONT-MT. HOLLY ROAD (EXIT 26).

B. - CONTRACTOR SHALL, USING SHEET TMP-4C TO CLOSE THE RIGHT TWO LANES OF SB I-85 UNDER BRIDGE #149 AND PERFORM REQUIRED WORK AS STATED IN THE CONTRACT.

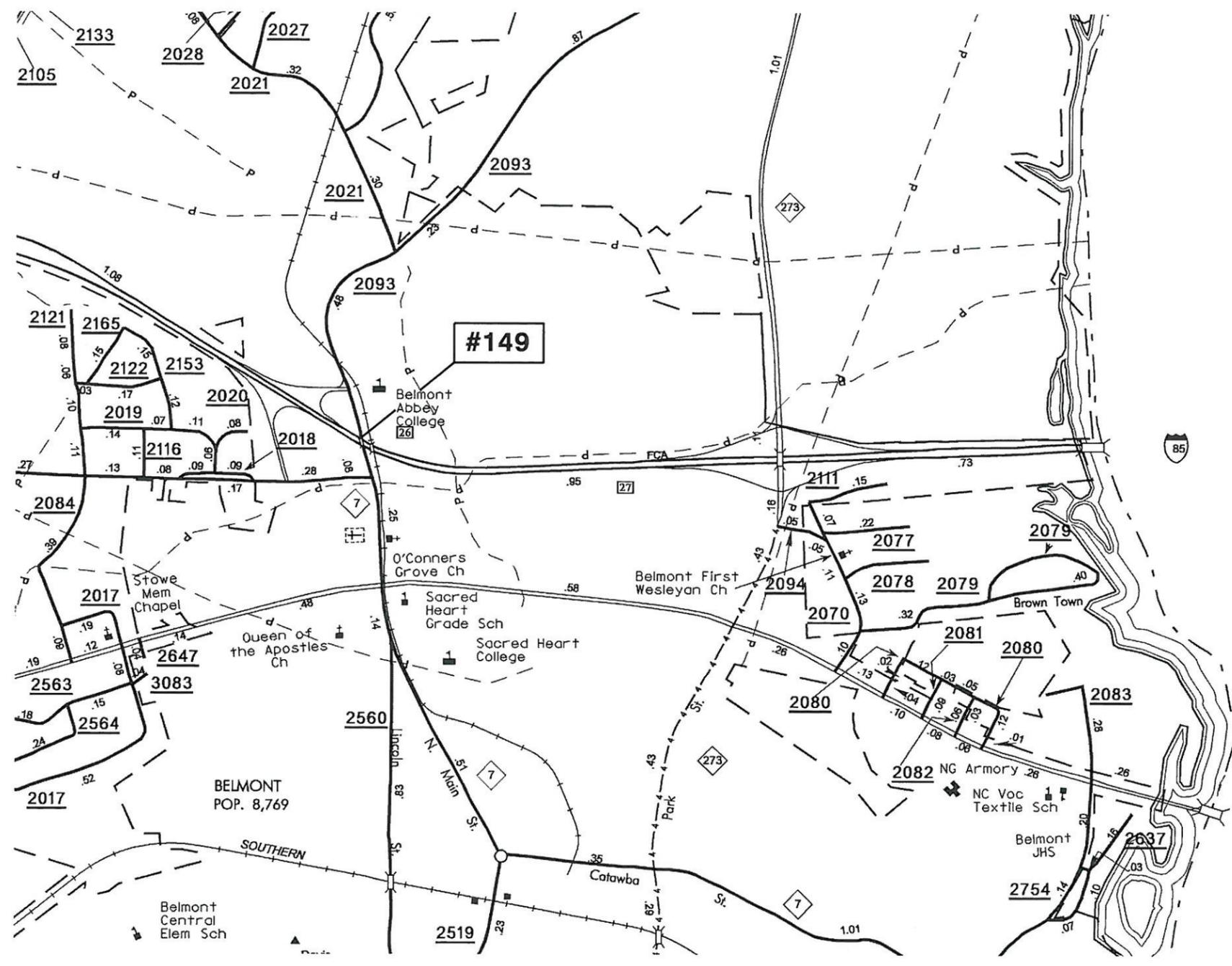
NOTE: THE CONTRACTOR SHALL CLOSE THE ON-RAMP FROM NC 273 (EXIT 27) AND INSTALL OFF-SITE DETOUR SIGNS AS SHOWN ON SHEET TMP-4D.

NOTE: THE CONTRACTOR SHALL INSTALL WORK ZONE SIGNS ALONG ON-RAMPS FROM TRUCK WEIGH STATION (FOR RIGHT TWO LANE CLOSURE) AS SHOWN ON SHEET TMP-4A.

NOTE: CONTRACTOR SHALL MAINTAIN ACCESS TO OFF-LOOP TO BELMONT-MT. HOLLY ROAD (EXIT 26).

STEP 2: - AT THE END OF THE WORK PERIOD, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN BRIDGE #149 LOCATION TO TRAFFIC.

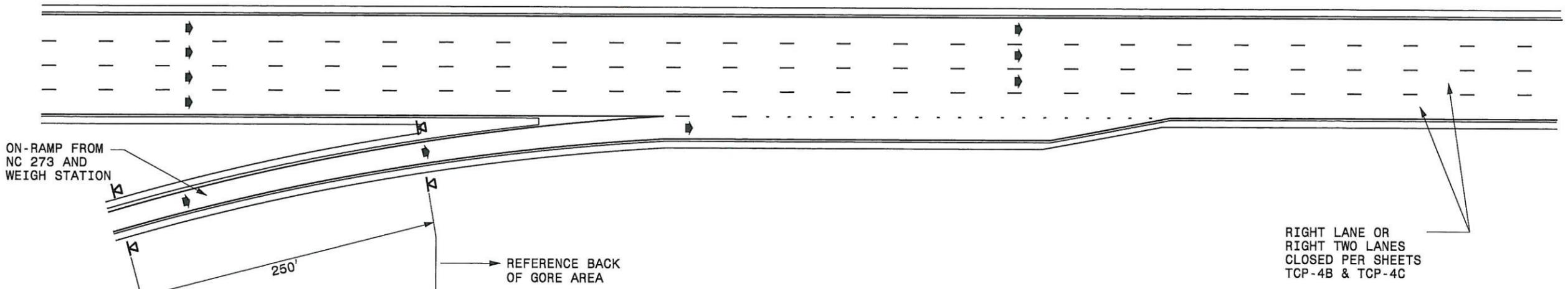
STEP 3: - REPEAT PHASE I, STEPS 1A, 1B & 2 UNTIL ALL REQUIRED CONTRACT WORK IS COMPLETED.



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APPROVED: _____ DATE: _____		<p>BRIDGE #149 GASTON COUNTY PHASING</p>

I-85 SOUTHBOUND



ON-RAMP FROM NC 273 AND WEIGH STATION

250'

REFERENCE BACK OF GORE AREA

RIGHT LANE OR RIGHT TWO LANES CLOSED PER SHEETS TCP-4B & TCP-4C



INSTALL WITH TMP-4B WHEN RIGHT LANE IS CLOSED

OR



INSTALL WITH TMP-4C WHEN RIGHT TWO LANES ARE CLOSED

OR

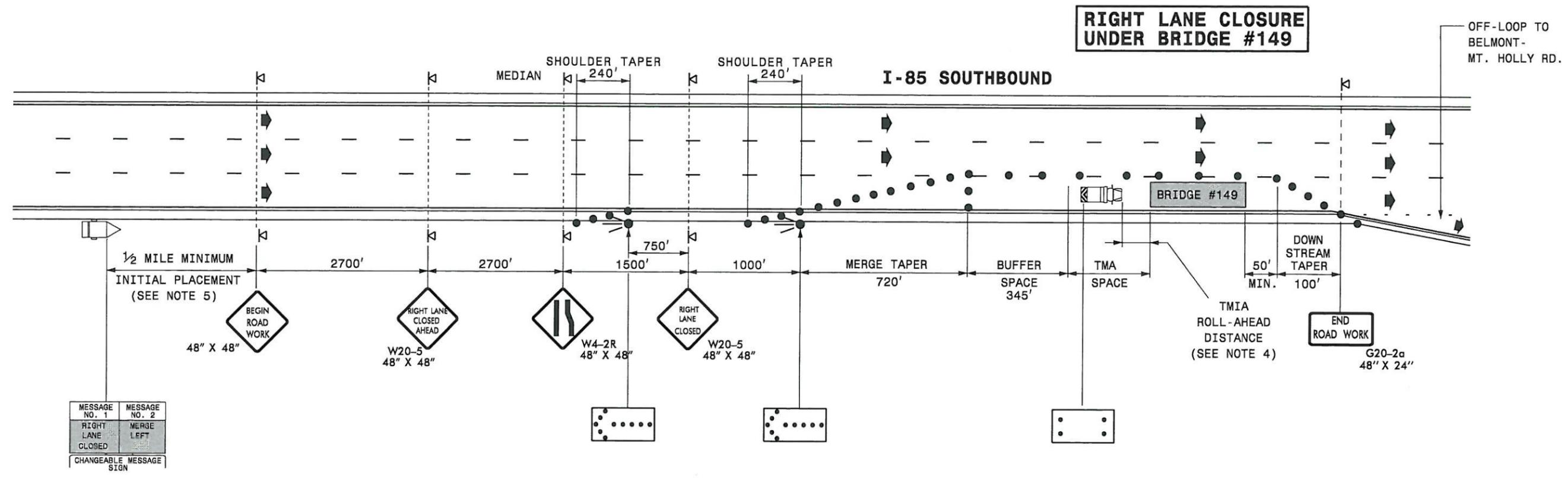


INSTALL WITH ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 15, FOR PAINTING OPERATIONS.

LEGEND	
●	DRUM
◀	PORTABLE SIGN
→	DIRECTION OF TRAFFIC FLOW

APPROVED:	DATE:		BRIDGE #149 ON-RAMP DETAIL

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**NOTES**

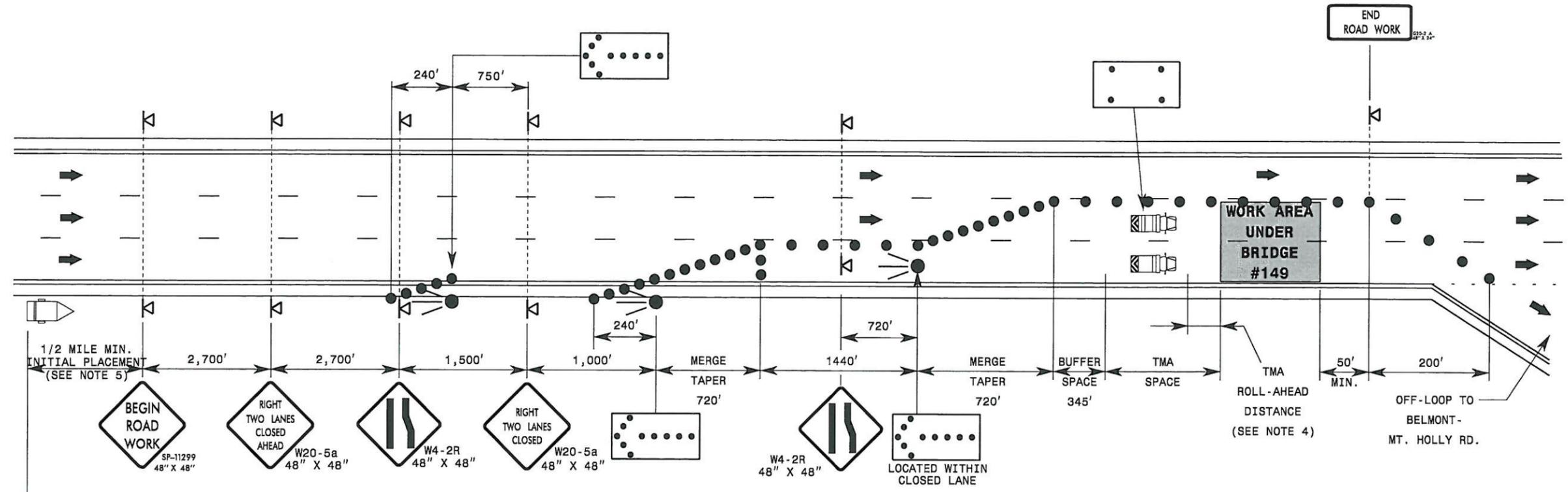
- 1- PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET (SEE STD. 1101.11 SHEET 2).
- 2- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 3- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.
- 5- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.

**LEGEND**

- FLASHING ARROW BOARD (TYPE C)
- FLASHING ARROW BOARD, TYPE "C" (96"X48" MIN.), "CAUTION MODE"
- TRUCK MOUNTED ATTENUATOR(TMA)
- CHANGEABLE MESSAGE SIGN (CMS)
- DRUM
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

APPROVED:	DATE:		<p>BRIDGE #149 TEMPORARY LANE CLOSURE RIGHT LANE CLOSED</p>

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MESSAGE NO. 1	MESSAGE NO. 2
RIGHT TWO LANES	CLOSED NEXT 3 MILES

CHANGEABLE MESSAGE SIGN

**GENERAL NOTES**

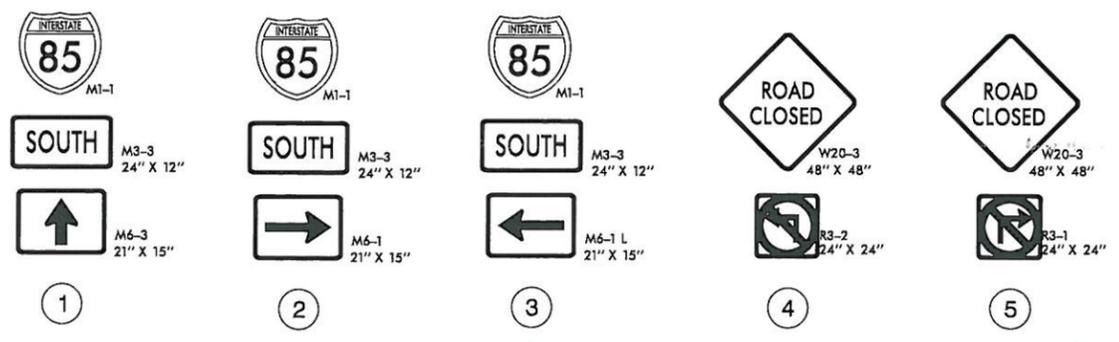
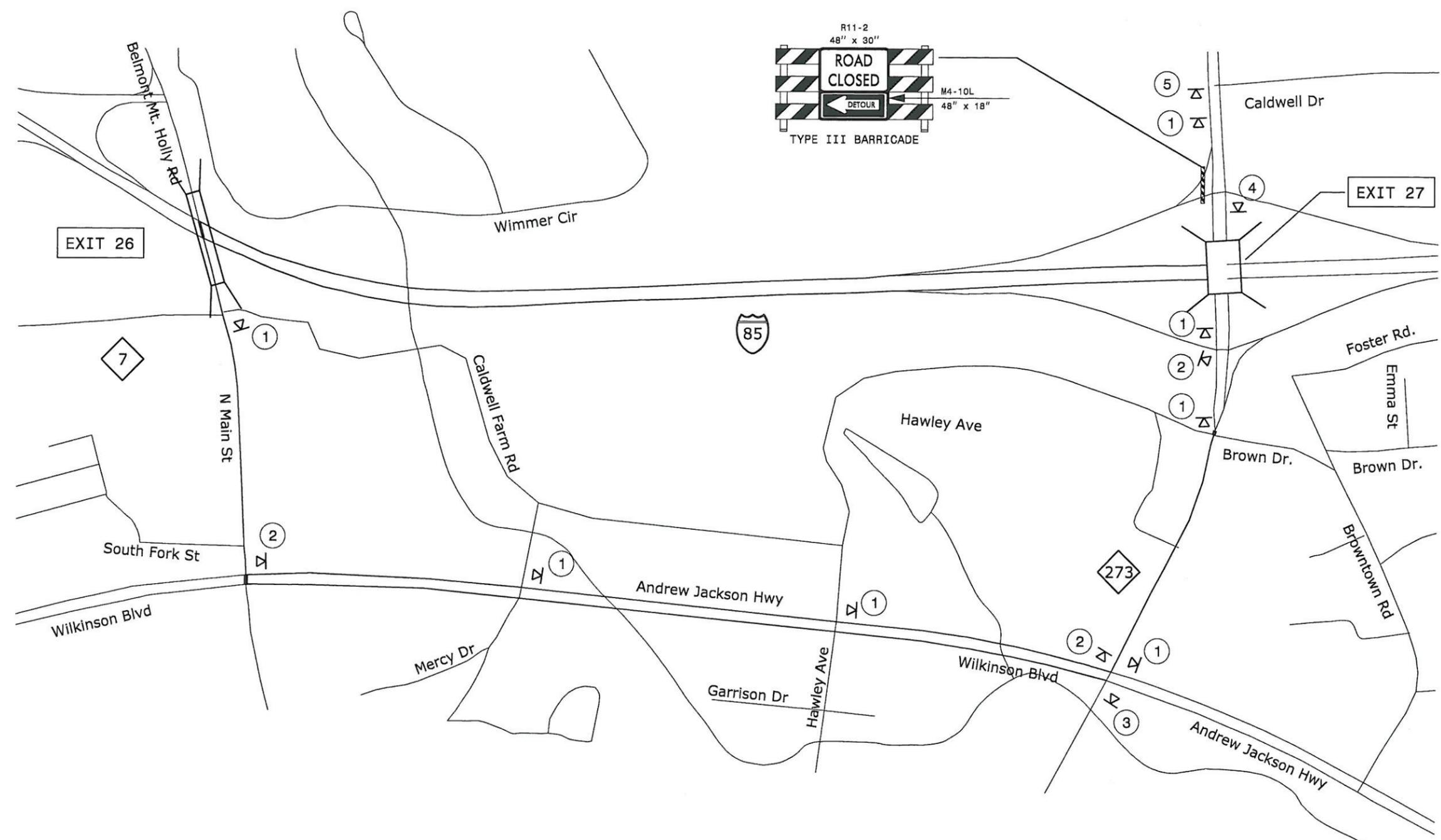
1- REFER TO NOTES ON SHEET TMP-4B.

**LEGEND**

- FLASHING ARROW BOARD (TYPE C)
- FLASHING ARROW BOARD, TYPE "C" (96"X48" MIN.), "CAUTION MODE"
- TRUCK MOUNTED ATTENUATOR (TMA)
- DRUM
- PORTABLE SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- DIRECTION OF TRAFFIC FLOW

APPROVED:	DATE: APR 13		<p><b>BRIDGE #149 RIGHT TWO LANES CLOSED</b></p>
SEAL			

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APPROVED:	DATE:		<b>BRIDGE #149 ON-RAMP CLOSED DETOUR</b>

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# PHASING

NOTE: THE CONTRACTOR SHALL ONLY WORK IN ONE BRIDGE LOCATION AT A TIME, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.

## PHASE I

STEP 1: - CONTRACTOR SHALL, USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15 AND SHEETS TMP-5A & TMP-5B, TO CLOSE EITHER LANE OF WB US-64/90 AND PERFORM REQUIRED WORK AS STATED IN THE CONTRACT.

NOTE: THE CONTRACTOR SHALL INSTALL "BEGIN ROAD WORK" SIGN(S) PRIOR TO FIRST LANE CLOSURE SIGN(S) AS SHOWN IN DETAIL ON SHEET TMP-1A.

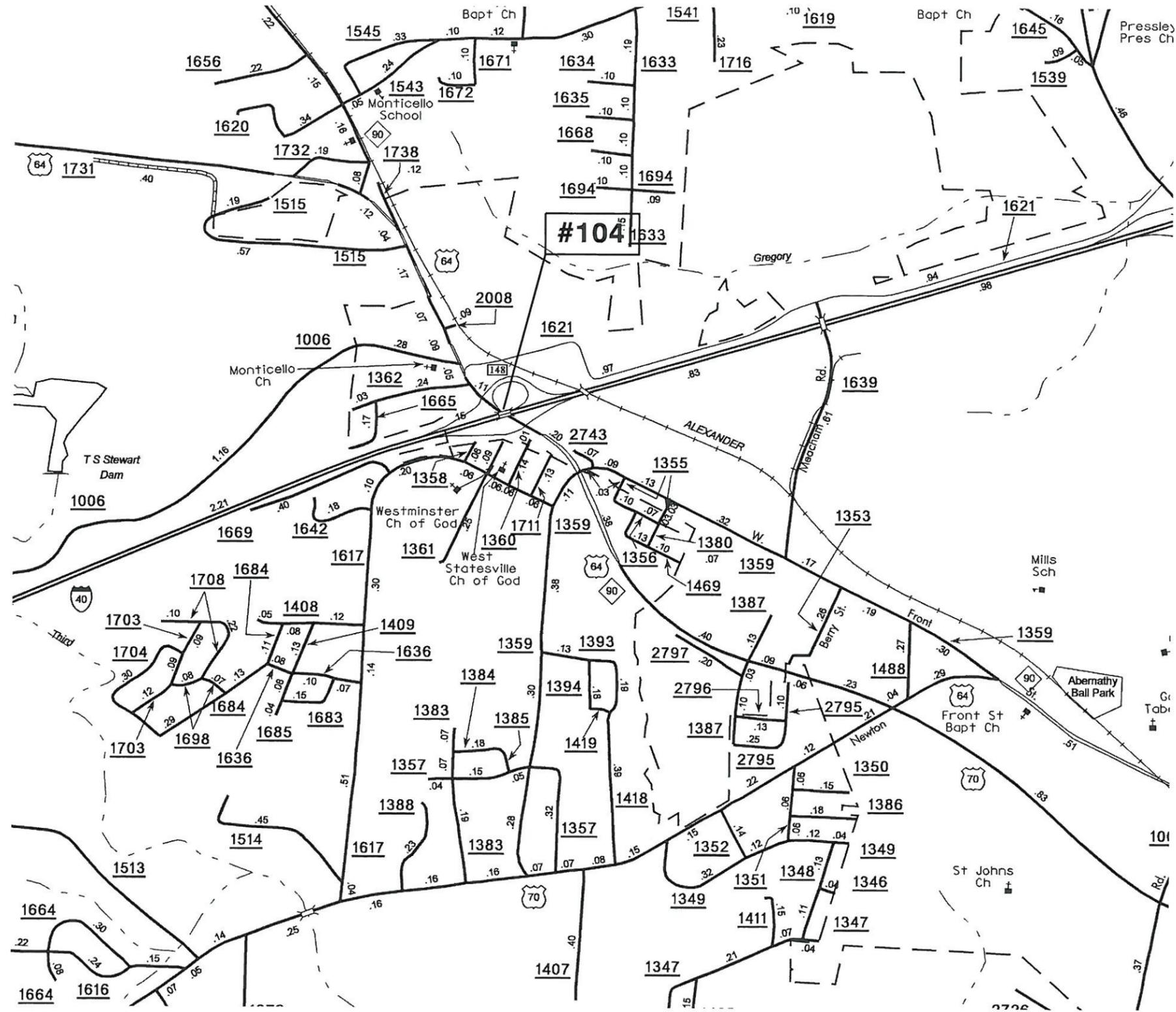
NOTE: CONTRACTOR SHALL MAINTAIN ACCESS TO ON-LOOP TO WB I-40 AND ON-RAMP TO EB I-40.

NOTE: AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL DRUMS TO CLOSE THE RIGHT TURN ACCELERATION LANE FROM WEST FRONT STREET TO WB US-64/90 AS SHOWN ON SHEET TMP-5C.

NOTE: AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL A DOUBLE ROW OF DRUMS TO EXTEND MEDIAN CONCRETE ISLAND TO PREVENT U-TURNS FROM EB US-64/90 AS SHOWN ON SHEETS TMP-5A & TMP-5B. CONTRACTOR SHALL MAINTAIN LEFT TURN MOVEMENT TO ON-RAMP TO EB I-40.

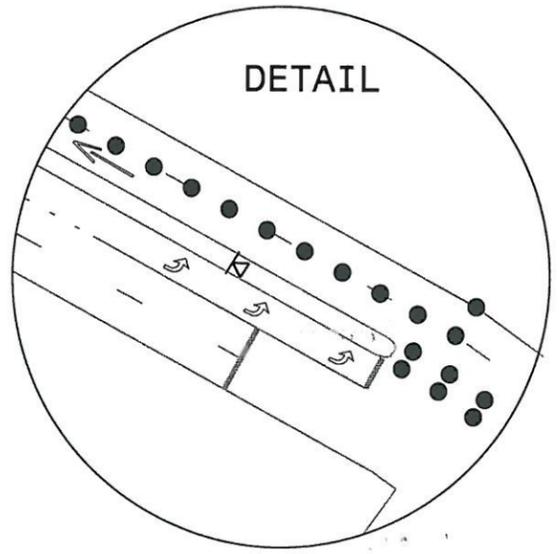
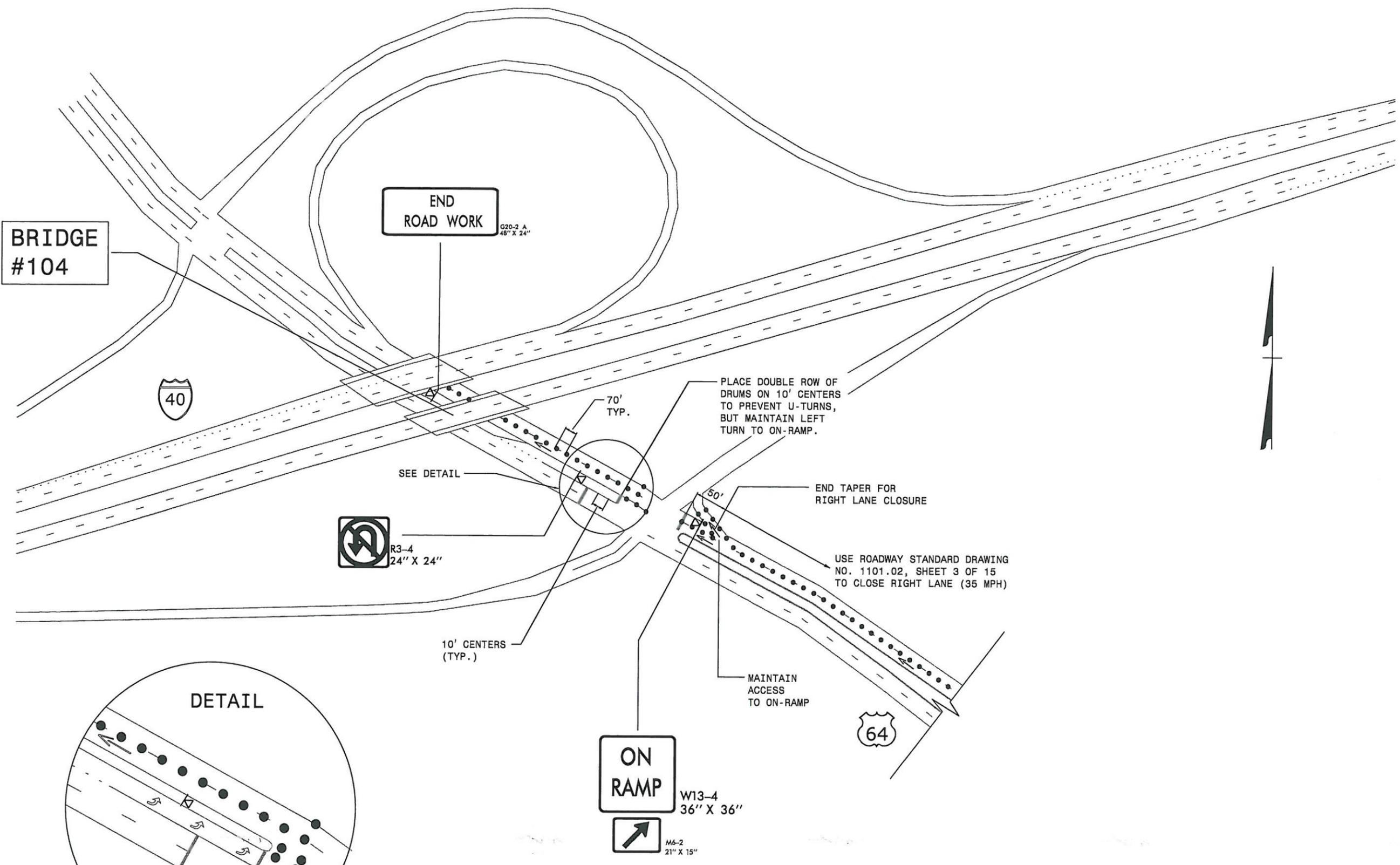
STEP 2: - AT THE END OF THE WORK PERIOD, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN BRIDGE #104 LOCATION TO TRAFFIC.

STEP 3: - REPEAT PHASE I, STEPS 1 & 2 UNTIL ALL REQUIRED CONTRACT WORK IS COMPLETED.

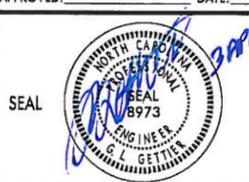
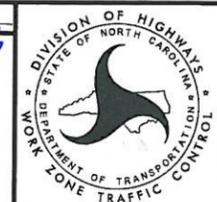


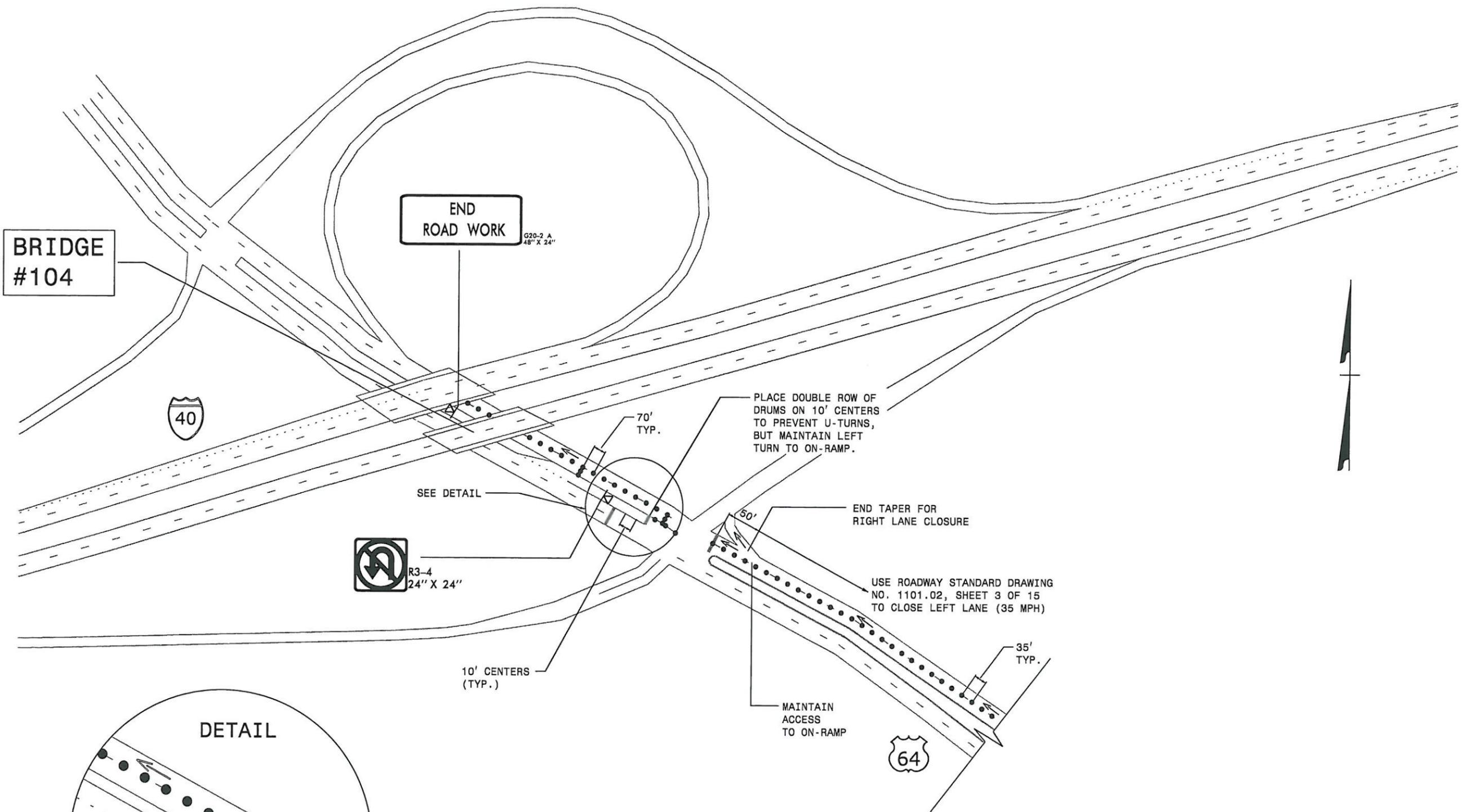
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APPROVED: _____	DATE: _____		
<p><b>BRIDGE #104</b>  <b>IREDELL COUNTY</b>  <b>PHASING</b></p>			



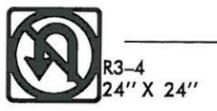
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 sngreen AT TE265817

APPROVED: _____ DATE: _____ 		BRIDGE #104 RIGHT LANE CLOSURE
--	---	--------------------------------------



BRIDGE #104

END ROAD WORK  
G20-2 A  
48" X 24"



SEE DETAIL

70' TYP.

PLACE DOUBLE ROW OF DRUMS ON 10' CENTERS TO PREVENT U-TURNS, BUT MAINTAIN LEFT TURN TO ON-RAMP.

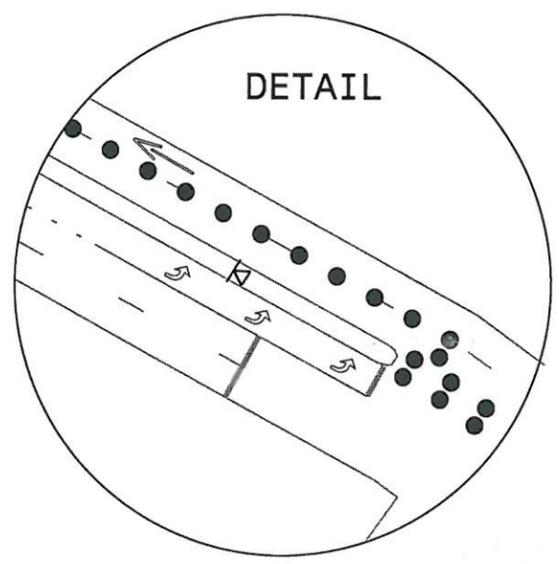
END TAPER FOR RIGHT LANE CLOSURE

USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15 TO CLOSE LEFT LANE (35 MPH)

10' CENTERS (TYP.)

MAINTAIN ACCESS TO ON-RAMP

35' TYP.



DETAIL

02-APR-2013 10:31  
 \\DOT\OFFS\ROAD\GROUPS-WZ\TCCC\TMU\WZTC\Design\Group3\Squad3B\Special\Projects\12B.103611\TMP\TCP\12B.103611\_TMP\_TMP-5B.dgn  
 AT TE265817  
 sngr.een

APPROVED:	DATE:		BRIDGE #104 LEFT LANE CLOSURE



DRUM OFF RIGHT TURN  
ACCELERATION LANE FOR  
BOTH RIGHT OR LEFT  
LANE CLOSURE



W20-5 R  
48" X 48"



M5-1 R  
21" X 15"



W4-5P  
24" X 30"

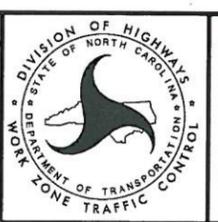
W Front St

Bristol Dr

Garner Bypass Blvd

02-APR-2013 10:31  
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 sngrreen AT TE265817

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_



**BRIDGE #104  
RIGHT ACCELERATION  
LANE CLOSED  
AT US-64/90 &  
W. FRONT ST  
INTERSECTION**