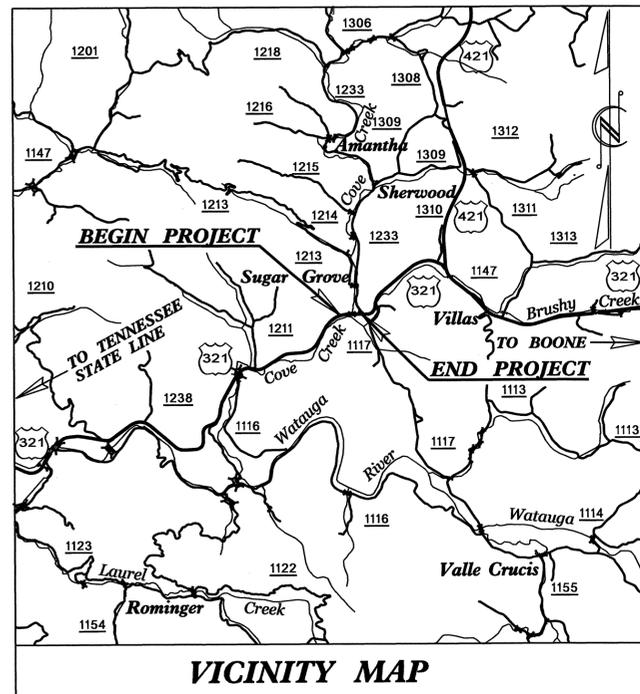


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**WATAUGA COUNTY**



VICINITY MAP

**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-1B, TMP-1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-2	PHASING
TMP-3	PHASE I DETAILS
TMP-4	PHASE II DETAILS
TMP-5	PHASE III DETAILS

SHEET NO.  
TMP-1

B-4668

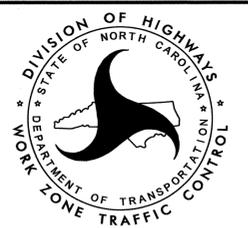
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kbrodwell AT 12/24/13



**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561  
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 TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
KEN BROADWELL TRAFFIC CONTROL DESIGN ENGINEER



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

SEAL

# 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	ADVANCE 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
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT & TEMPORARY

# LEGEND

## GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL

## TEMPORARY PAVEMENT MARKINGS/MARKERS

- PAINT 4"
- PA WHITE EDGELINE
  - PD 2 FT. WHITE MINISKIP
  - PI YELLOW DOUBLE CENTER
  - P4 24" WHITE STOPBAR

- PAINT MARKING SYMBOLS
- QB RIGHT TURN ARROW
  - QD COMBO STRAIGHT LEFT TURN ARROW

- COLD APPLIED PLASTIC - TYPE IV (REMOVEABLE TAPE)
- CA WHITE EDGELINE
  - CI YELLOW DOUBLE CENTER

- PAVEMENT MARKERS
- MH YELLOW / YELLOW TEMPORARY RAISED
  - MI CRYSTAL / RED TEMPORARY RAISED

## TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM    SKINNY DRUM    TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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# TRANSPORTATION OPERATIONS

## CONSTRUCTION

REPLACE EXISTING BRIDGE NO. 29 UTILIZING ON-SITE DETOUR.

## TMP DESIGN PARAMETERS

THIS PROJECT CONTAINS DAILY LANE CLOSURE TIME RESTRICTIONS AND HOLIDAY LANE CLOSURE TIME RESTRICTIONS (SEE SHEET TMP-1B).

## GENERAL OUTLINE

1. CONSTRUCT THE TEMPORARY DETOUR BRIDGE AND APPROACHES AWAY FROM TRAFFIC BEHIND DRUMS AND USING FLAGGING OPERATIONS.
2. SHIFT TRAFFIC TO TEMPORARY DETOUR, CONSTRUCT PROPOSED BRIDGE AND APPROACHES AWAY FROM TRAFFIC BEHIND GUARDRAIL AND DRUMS, AND USING FLAGGING OPERATIONS.
3. SHIFT TRAFFIC TO THE PROPOSED BRIDGE AND APPROACHES THEN REMOVE THE DETOUR BRIDGE AND APPROACHES AWAY FROM TRAFFIC BEHIND GUARDRAIL AND DRUMS, AND USING FLAGGING OPERATIONS.
4. INSTALL FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS/MARKERS USING FLAGGING OPERATIONS. REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO THE FINAL TRAFFIC PATTERN.

# 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
1. US 321 (-L-)	MONDAY THROUGH FRIDAY 7:00 A.M. - 8:30 A.M. 2:30 P.M. - 4:00 P.M.

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

### ROAD NAME

1. US 321 (-L-)

### HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATE UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 4:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 4:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 4:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 4:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 4:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 4:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 4:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 4:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 4:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

- C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. US 321 (-L-)	ANYTIME

- D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
1. US 321 (-L-)	MONDAY THROUGH FRIDAY 7:00 A.M. TO 8:30 A.M. 2:30 P.M. TO 4:00 P.M.	TRAFFIC OPERATIONS, GIRDER INSTALLATION

- E) 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

- F) 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.
- G) 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.
- H) 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.
- I) 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.
- J) 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) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

## PAVEMENT EDGE DROP OFF REQUIREMENTS

- L) 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 A 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.
- M) 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) A MINIMUM OF 200 FEET IN ADVANCE OF THE UNEVEN AREA.

## TRAFFIC PATTERN ALTERATIONS

- N) NOTIFY THE ENGINEER A MINIMUM OF TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

APPROVED: _____	DATE: _____		TRANSPORTATION OPERATIONS AND GENERAL NOTES
			

## GENERAL NOTES cont'd

### SIGNING

- O) 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.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

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

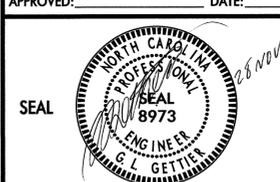
### PAVEMENT MARKINGS AND MARKERS

- T) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLANS.
- U) 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>
1. ALL ROADS	PAINT	TEMPORARY RAISED
2. PROPOSED NEW BRIDGE	COLD APPLIED PLASTIC - TYPE IV (REMOVABLE TAPE)	TEMPORARY RAISED

- V) 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.
- W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

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## PHASING

### PHASE I

- STEP 1: - CONTRACTOR SHALL PLACE "ROAD WORK AHEAD" AND "END ROAD WORK" SIGNS AS SHOWN ON RSD 1101.01 SHEET 3 OF 3.
- STEP 2: - CONTRACTOR SHALL INSTALL "STOP AHEAD" AND "STOP" SIGNS ON -Y- AND PLACE TEMPORARY PAVEMENT MARKINGS ON -Y- (SEE SHEET TMP-3). THIS STOP CONDITION WILL REMAIN IN EFFECT THROUGHOUT PROJECT CONSTRUCTION.
- STEP 3: - CONTRACTOR SHALL, AWAY FROM TRAFFIC AND USING LANE CLOSURES PER RSD 1101.02 SHEET 1 OF 15:
- CONSTRUCT THE ON-SITE DETOUR BRIDGE AND APPROACHES UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE TO THE EDGE AND ELEVATION OF EXISTING ROADWAY FROM STA. 10+00.05 -DET- TO STA. 22+18.52 -DET- AS SHOWN ON SHEET TMP-3 AND THE CONSTRUCTION PLANS.
  - INSTALL THE LEFT SECTION OF THE 48" PIPE FROM APPROXIMATELY THE CENTER LINE OF US-321 (-L-) NORTH.
  - CONSTRUCT -Y-, INCLUDING 18" PIPE, FROM EXISTING -L- TO STA. 12+00 -Y- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEET TMP-3 AND THE CONSTRUCTION PLANS.
  - CONSTRUCT -DRIVE- AS SHOWN ON SHEET TMP-3 AND THE CONSTRUCTION PLANS.
- STEP 4: - CONTRACTOR SHALL, AWAY FROM TRAFFIC AND USING LANE CLOSURES PER RSD 1101.02 SHEET 1 OF 15, INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS AS SHOWN ON SHEET TMP-4 THEN SHIFT TRAFFIC ONTO THE DETOUR (-DET-).

### PHASE II

- STEP 1: - CONTRACTOR SHALL, AWAY FROM TRAFFIC AND USING LANE CLOSURES PER RSD 1101.02 SHEET 1 OF 15:
- DEMOLISH THE EXISTING BRIDGE AND CONSTRUCT THE PROPOSED BRIDGE AND APPROACHES UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEET TMP-4 AND THE CONSTRUCTION PLANS).
  - INSTALL THE REMAINDER OF THE 48" PIPE (SEE SHEET TMP-4 AND THE CONSTRUCTION PLANS).

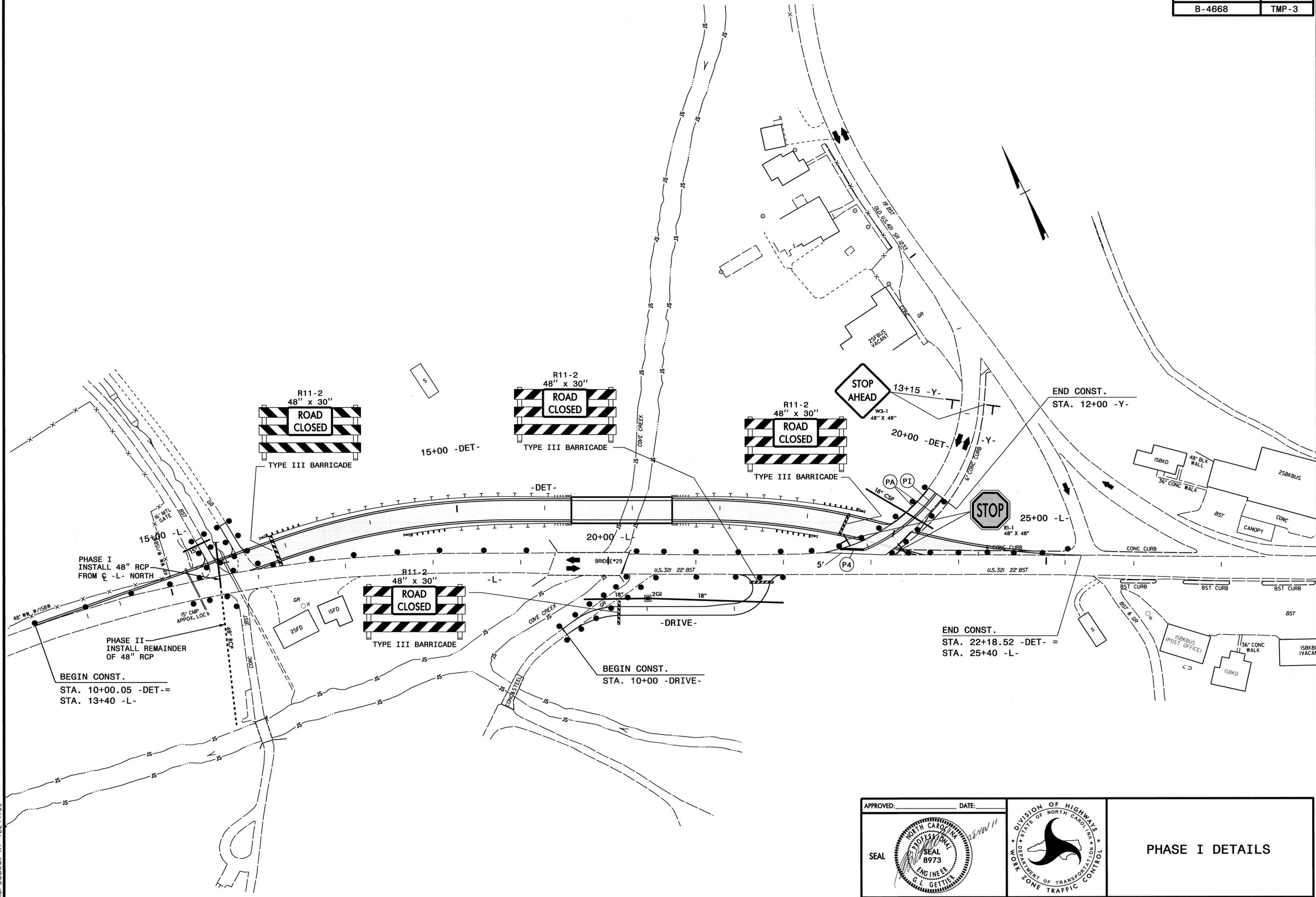
### PHASE III

- STEP 1: - CONTRACTOR SHALL, AWAY FROM TRAFFIC AND USING LANE CLOSURES PER RSD 1101.02 SHEET 1 OF 15 INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS AND PLACE TRAFFIC ONTO THE NEW BRIDGE AND APPROACHES (SEE SHEET TMP-5).
- STEP 2: - CONTRACTOR SHALL, AWAY FROM TRAFFIC AND USING LANE CLOSURES PER RSD 1101.02 SHEET 1 OF 15:
- DEMOLISH THE DETOUR BRIDGE AND APPROACHES.
  - CONSTRUCT DRIVEWAY TIE-IN LEFT OF STA. 15+50 -L- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE CONSTRUCTION PLANS).
  - CONSTRUCT DRIVEWAY TIE-IN LEFT OF STA. 15+90 -L- (SEE CONSTRUCTION PLANS).
- STEP 3: - CONTRACTOR SHALL, USING LANE CLOSURES PER RSD 1101.02 SHEET 1 OF 15, PAVE THE FINAL LAYER OF SURFACE COURSE ON -L-, -Y- AND THE DRIVEWAY LEFT OF STA. 15+50 -L-, INSTALL THE FINAL PAVEMENT MARKINGS AND FINAL PAVEMENT MARKERS AS SHOWN ON THE PAVEMENT MARKING PLANS, REMOVE REMAINING TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN TO THE FINAL TRAFFIC PATTERN.

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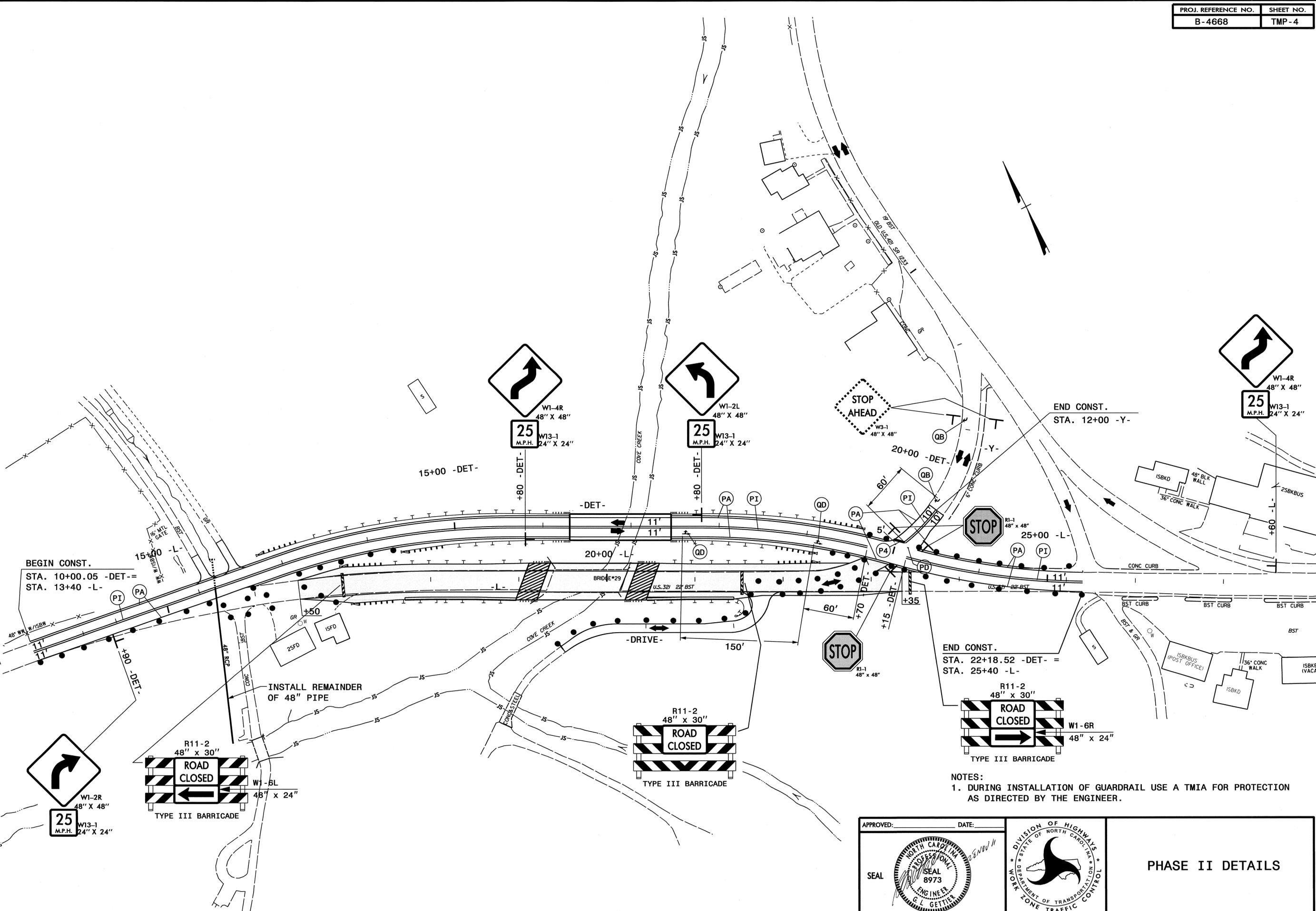


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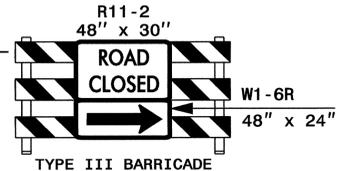
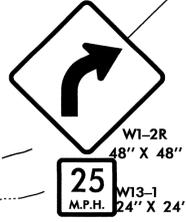
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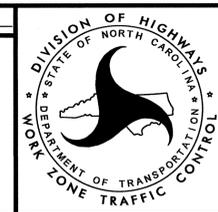
BEGIN CONST.  
STA. 10+00.05 -DET- =  
STA. 13+40 -L-

END CONST.  
STA. 22+18.52 -DET- =  
STA. 25+40 -L-



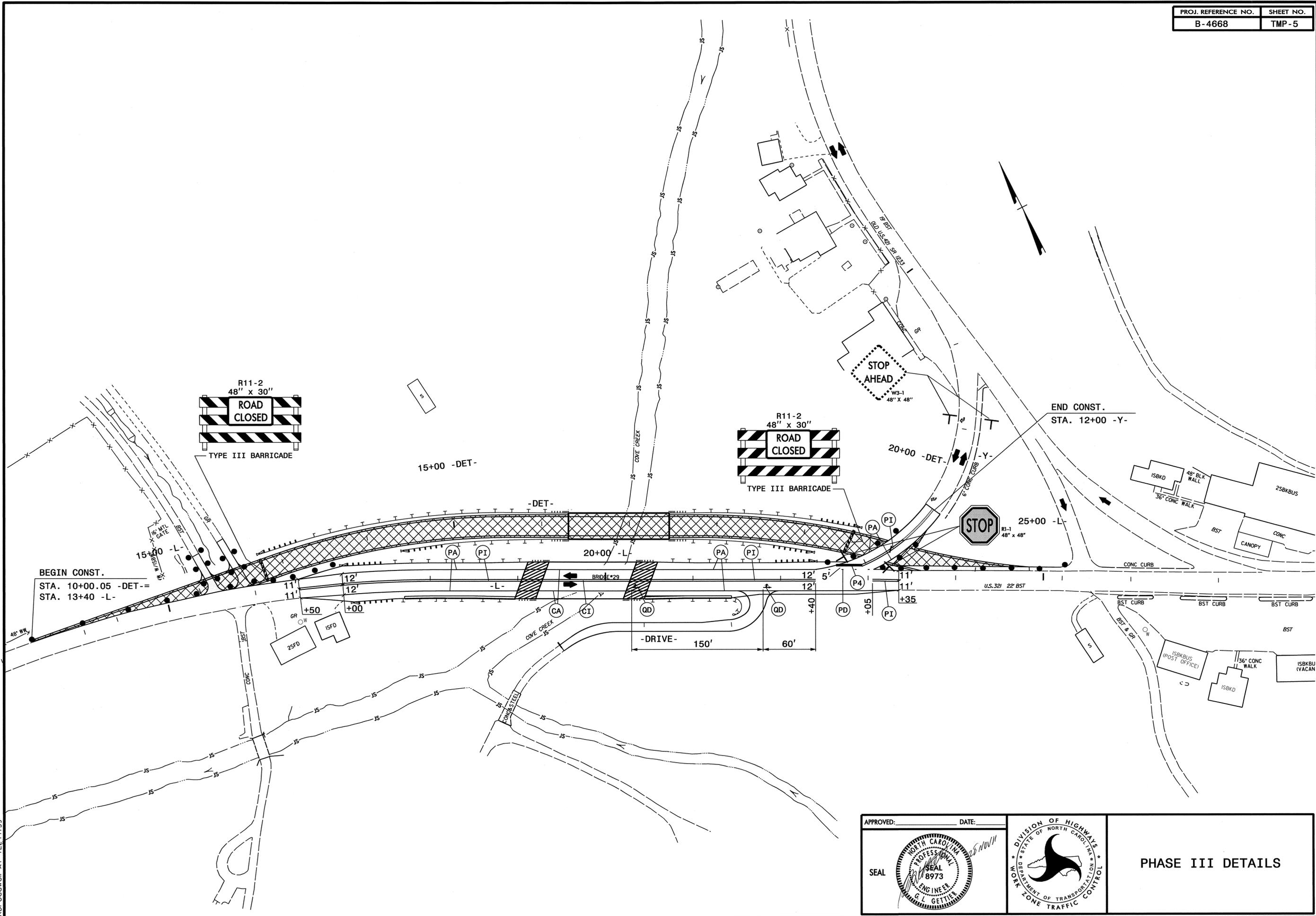
NOTES:  
1. DURING INSTALLATION OF GUARDRAIL USE A TMIA FOR PROTECTION AS DIRECTED BY THE ENGINEER.

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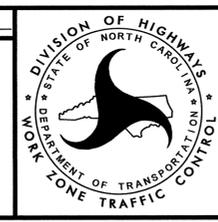
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**PHASE III DETAILS**