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# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-3809	TCP-01

# PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

# BEAUFORT COUNTY

## ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	<u>TITLE</u>
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS

## INDEX OF SHEETS

#### SHEET NO.

#### TITLE

TCP - 1

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS

TCP-2

GENERAL NOTES AND PHASING

TCP-3

OFFSITE DETOUR SIGNING AND ROAD CLOSURE SIGNING

# **LEGEND**

#### **GENERAL**

DIRECTION OF TRAFFIC FLOW

PROPOSED PVMT. ----- EXIST. PVMT.



REMOVAL OF EXISTING PAVEMENT

#### TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

CONE

SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

— STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

-~ CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

\_\_\_ FLAGGER

#### PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS

### TEMP. PAVEMENT MARKING SCHEDULE DESCRIPTION QUANTITY BREAKDOWN TOTAL QUANTITY PAINT (4") WHITE EDGELINE 10400 LF DOUBLE YELLOW CENTERLINE 10400 LF 20800 LF TEMPORARY RAISED PAVEMENT MARKERS YELLOW/YELLOW 35 EA 35 EA

APPROVED: Samuery 11 2010	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
STATE OF THE STATE	J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
SEAL SEAL	J. S. KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
OZZIO4	D. A. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. KITE LINE	D. V. JOYNER TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

PROJ. REFERENCE NO.	SHEET NO.
B-3809	TCP-02
	101 02

# 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.

#### LANE AND SHOULDER CLOSURE REQUIREMENTS (FOR SR 1716)

- A) 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.
- B) 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.
- C) 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.

#### PAVEMENT EDGE DROP OFF REQUIREMENTS (FOR SR 1716)

D) 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 COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

#### TRAFFIC PATTERN ALTERATIONS

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

#### SIGNING

- F) STATE FORCES WILL BE RESPONSIBLE FOR PROVIDING PERMANENT SIGNING.
- G) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING
  TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

STATE FORCES WILL BE RESPONSIBLE FOR PROVIDING SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE.

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

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

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

#### TRAFFIC CONTROL DEVICES

- J) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT. OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- K) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

#### PAVEMENT MARKINGS AND MARKERS

L) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLANS.

# PHASING

#### PHASE I

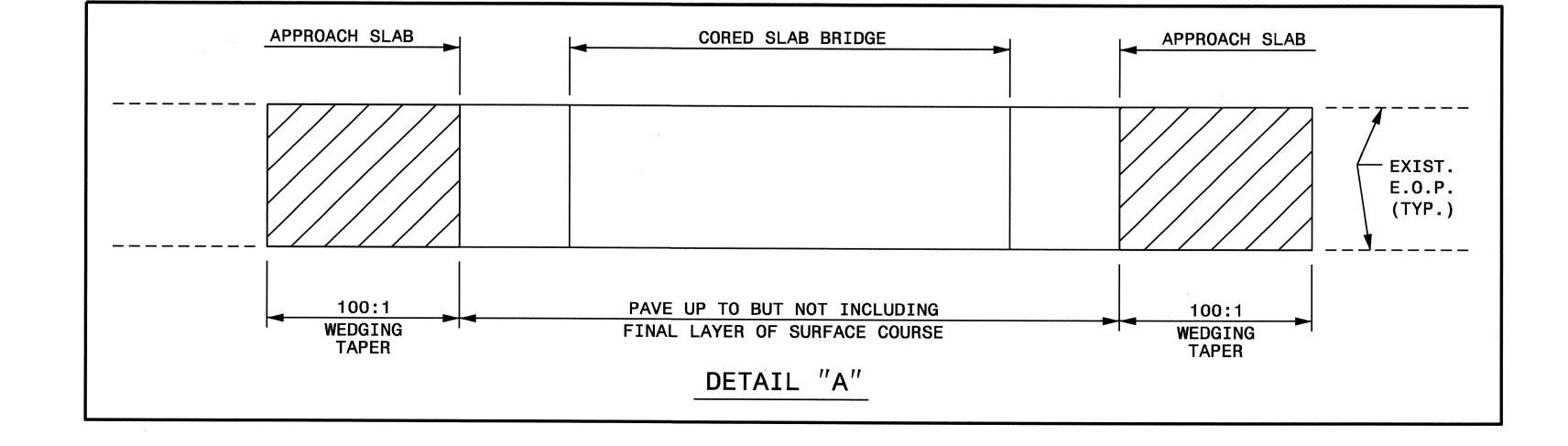
STEP 1 -- CLOSE NC 99 (-L-) FROM -L- STA. 19+00 +/- TO STA. 36+50 +/- AND DETOUR TRAFFIC IN ACCORDANCE WITH TCP-3 AND RSD 1101.03, SHEET 1. MAINTAIN ACCESS TO DRIVEWAYS WITHIN THE CLOSURE AND SR 1716 (FOREMAN LANE).

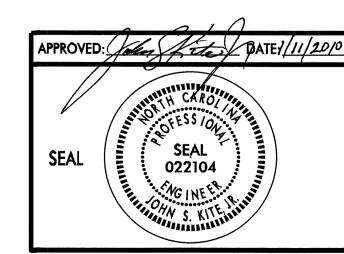
NOTE: STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

- STEP 2 -- AWAY FROM TRAFFIC, CONSTRUCT PROPOSED BRIDGE AND APPROACHES, UP TO BUT INCLUDING THE FINAL LAYER OF SURFACE COURSE, INCLUDING THE INSTALLATION OF PROPOSED GUARDRAIL FROM -L- STA. 19+80 +/- TO STA. 38+00 +/-. TAPER WEARING SURFACE 100:1 TO MATCH EXISTING PAVEMENT. SEE DETAIL "A", THIS SHEET.
- STEP 3 -- USING FLAGGERS, CONTRACTOR MAY BEGIN CONSTRUCTION OF PROPOSED WIDENING AND FULL DEPTH PAVED SHOULDERS UP TO THE EDGE AND ELEVATION OF EXISTING NC 99 (-L-) FROM -L- STA. 38+00 +/- TO 44+42 +/-. REPLACE DAMAGED OR DESTROYED WHITE EDGE LINES WITH A SINGLE APPLICATION OF 4" WHITE PAINT. MAINTAIN DRUMS ON THE SHOULDERS AT 50 FOOT SPACING DURING CONSTRUCTION. (SEE RSD 1101.02, SHEET 1.)
- STEP 4 -- PLACE TEMPORARY PAINT PAVEMENT MARKINGS AND TEMPORARY RAISED MARKERS FOR A 2 LANE, 2 WAY TRAFFIC PATTERN FROM -L- STA. 19+00 +/- TO STA. 36+50 +/-.
- STEP 5 -- COVER/REMOVE DETOUR SIGNING AND RE-OPEN NC 99 TO TRAFFIC.

PHASE II

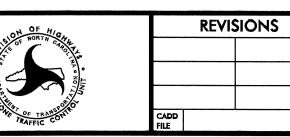
- STEP 1 -- COMPLETE THE WORK BEGUN IN PHASE I, STEP 3.
- STEP 2 -- USING FLAGGERS, COMPLETE PAVING OPERATIONS
  THROUGH THRU THE FINAL LAYER OF SURFACE COURSE
  AND PLACE FINAL MARKINGS AND MARKERS THROUGHOUT
  THE PROJECT LIMITS. (SEE RSD 1101.02, SHEET 1.)
- STEP 3 -- REMOVE ALL TRAFFIC CONTROL DEVICES.



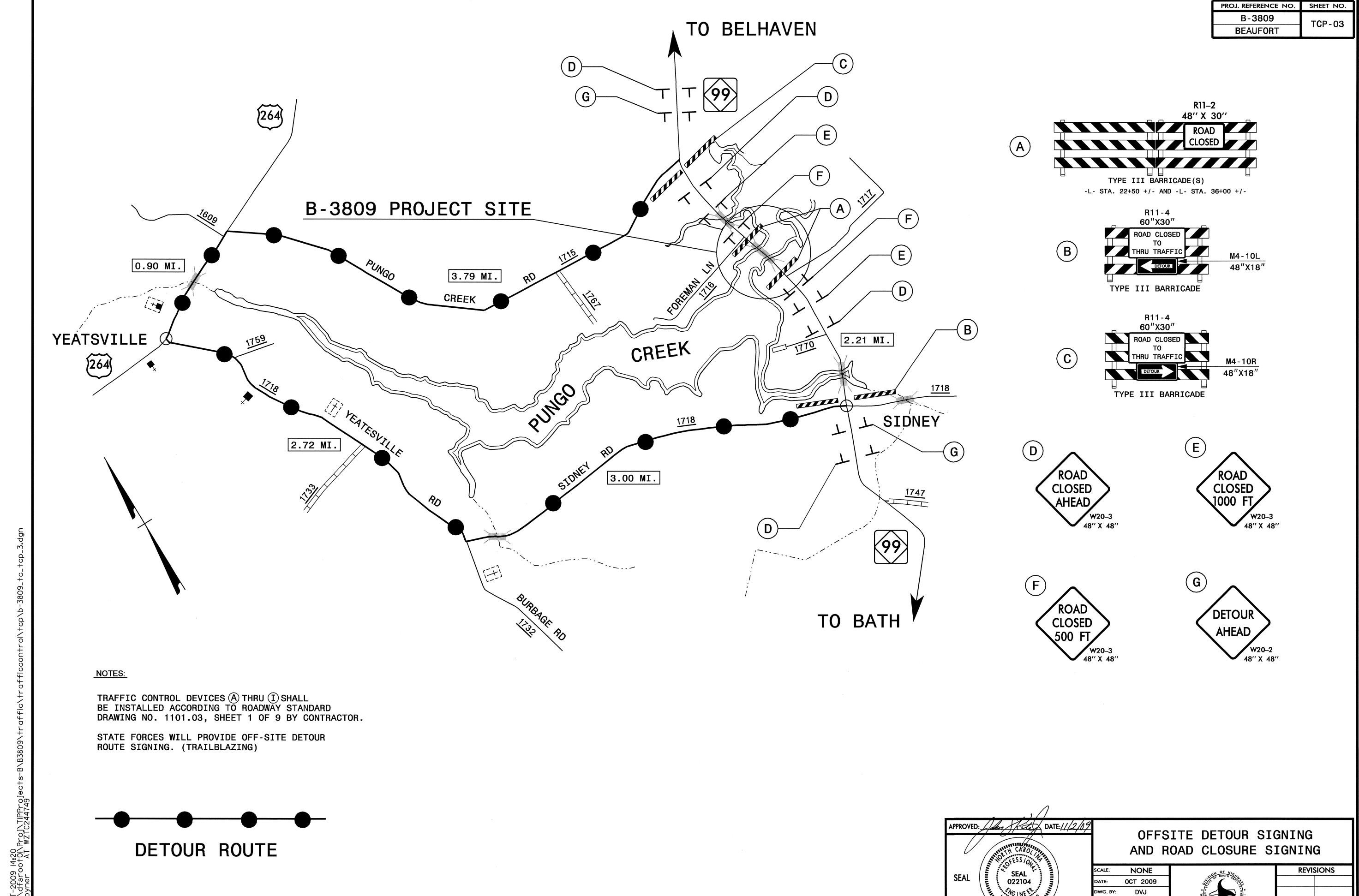


GENERAL NOTES AND PHASING

NONE	ON OF HIG
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DVJ	\$ (°)
DVJ	
Y: DAP	ONE TRANSPORTED



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DESIGN BY: DVJ