

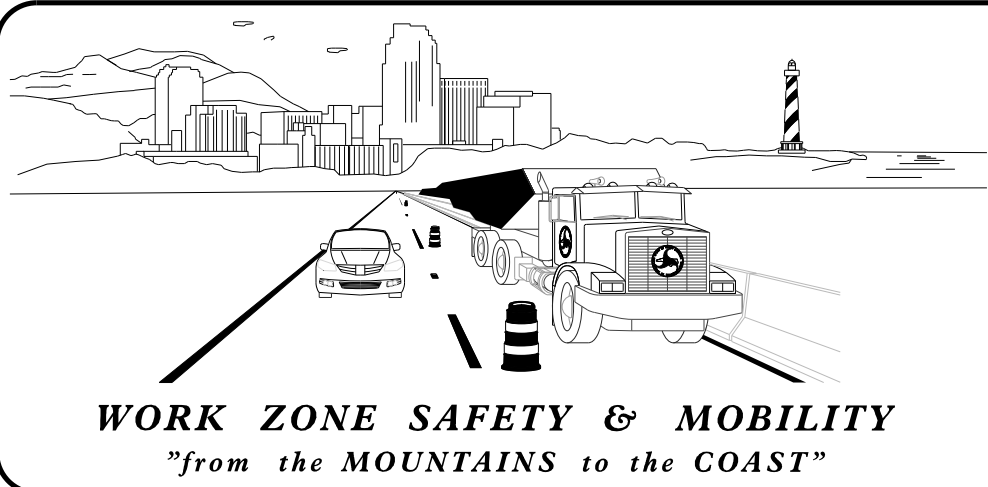
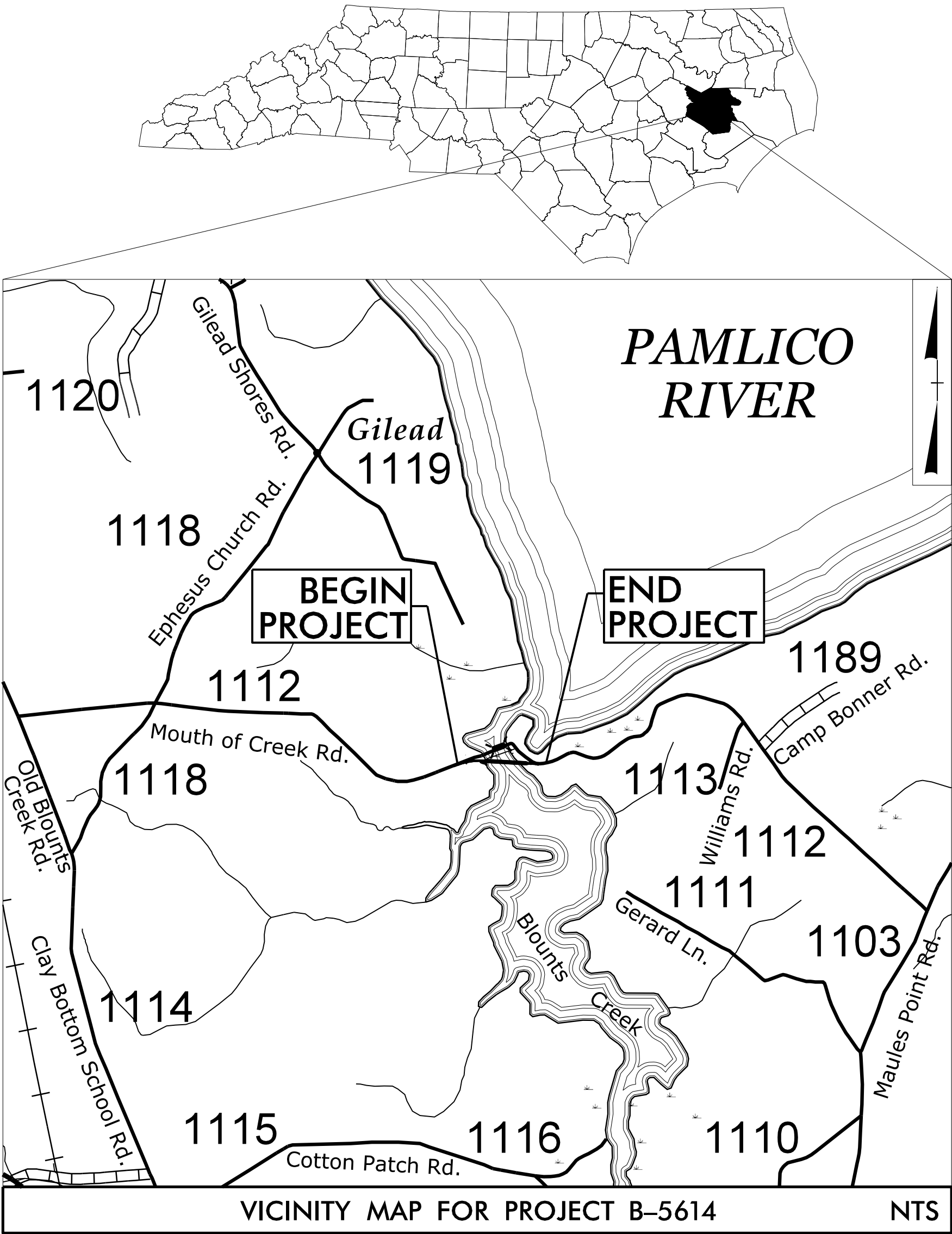
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BEAUFORT COUNTY

LOCATION: BRIDGE #060009 OVER BLOUNTS CREEK  
ON SR 1112 (MOUTH OF THE CREEK ROAD)

TYPE OF WORK: DRAINAGE, GRADING, PAVING,  
AND STRUCTURE



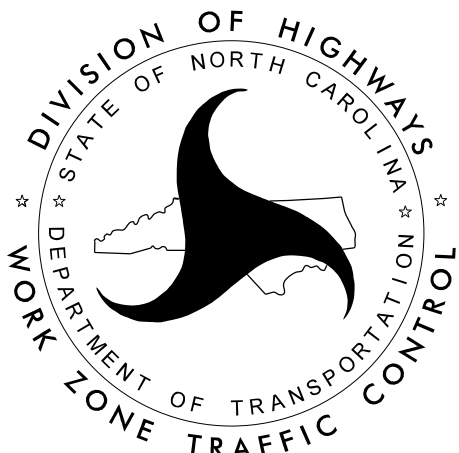
PLANS PREPARED BY:

DAVID RUGGLES, PE

MICHAEL BURNS, PE

NCDOT CONTACTS:

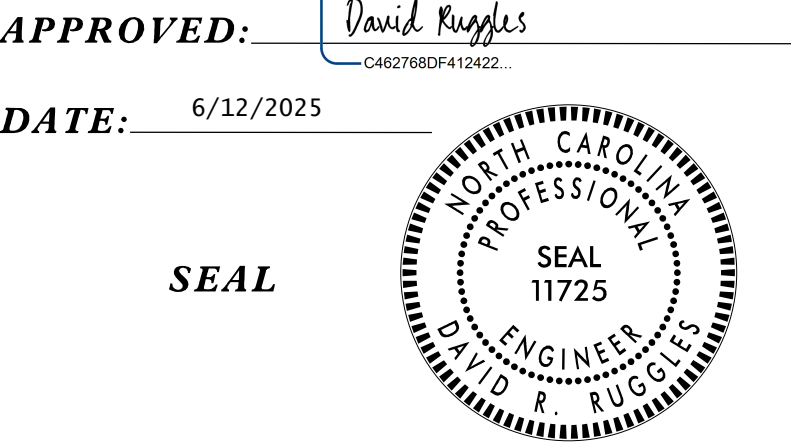
DAVID STUTTS, PE  
PROJECT ENGINEER



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-1B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES, MANAGEMENT STRATEGIES, AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	TEMPORARY TRAFFIC CONTROL PHASE 1 DETAILS
TMP-4 TO TMP-5	TEMPORARY TRAFFIC CONTROL PHASE 2 DETAILS
TMP-6 TO TMP-7	TEMPORARY TRAFFIC CONTROL PHASE 3 DETAILS
TMP-8 TO TMP-9	TEMPORARY TRAFFIC CONTROL PHASE 4 DETAILS

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SHEET NO.  
TMP-1

B-5614

TIP PROJECT:

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:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

WEDGING

TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

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

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

P1	PAINT WHITE EDGELINE (4")	4671 LF
P13	PAINT YELLOW DOUBLE CENTER (4")	4626 LF

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ROADWAY STANDARD  
DRAWINGS & 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 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

- 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 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.

- C) 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.

- D) 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.

- E) 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.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- F) 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.

- G) 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) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- I) 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.
- J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- K) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 1000 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

- L) 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.

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

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
SR 1112 (MOUTH OF THE CREEK ROAD)	PAINT	NONE
BRIDGE	PAINT	NONE

- O) 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.

- P) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- Q) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

## MANAGEMENT STRATEGIES

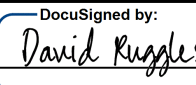
DURING CONSTRUCTION OF PROPOSED STRUCTURE BRIDGE No. 9 OVER BLOUNT'S CREEK, SR 1112 (MOUTH OF THE CREEK RD.) WILL BE OPEN TO THROUGH TRAFFIC.THROUGH TRAFFIC ON SR 1112 WILL BE MAINTAINED ON THE EXISTING STRUCTURE WHILE THE PROPOSED STRUCTURE IS BEING BUILT. ONCE THE PROPOSED STRUCTURE IS COMPLETED, TRAFFIC WILL BE SHIFTED TO THE PROPOSED STRUCTURE AND THE EXISTING STRUCTURE SHALL BE REMOVED.

ACCESS TO ALL RESIDENCES WITHIN THE PROJECT LIMITS MUST BE MAINTAINED AT ALL TIMES.

## LOCAL NOTES


- NOTIFY THE BEAUFORT COUNTY SCHOOLS TRANSPORTATION DIRECTOR OF THE BRIDGE REMOVAL 30 DAYS PRIOR TO ROAD CLOSURE.
- NOTIFY THE BEAUFORT COUNTY EMERGENCY MANAGEMENT SERVICES DIRECTOR OF BRIDGE REMOVAL 30 DAYS PRIOR TO ROAD CLOSURE.
- REFERENCE BOATER SAFETY PLAN FOR APPLICABLE CONSTRUCTION INFORMATION IN ORDER TO ENSURE THAT RECREATIONAL BOAT TRAFFIC IS MAINTAINED DURING CONSTRUCTION OF PROPOSED BRIDGE.



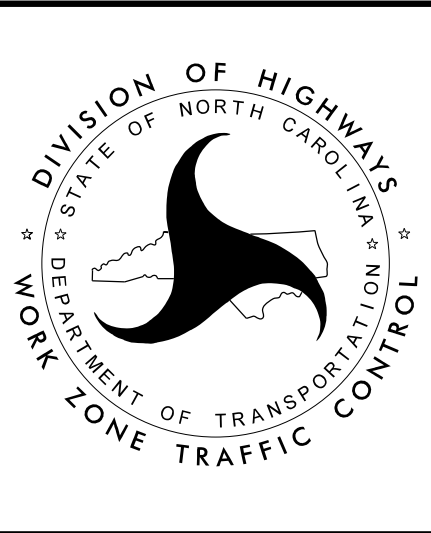
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TRANSPORTATION  
OPERATIONS  
PLAN

PHASING

PHASE 1

STEP 1  
USING ROADWAY STANDARD DRAWING (RSD) 1101.01 SHEET 3 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ALONG SR 1112 (MOUTH OF THE CREEK ROAD).

STEP 2  
USING RSD 1101.02 SHEET 1 OF 19 AND SHEET TMP-03, CONSTRUCT THE PROPOSED TEMPORARY PAVEMENT AND -L- EMBANKMENT FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT:  
- -L- STA. 16+31 +/- TO -DRIVE- STA. 10+00 +/- (TEMPORARY DRIVEWAY)  
- -DRIVE- STA. 10+00 +/- TO -DRIVE- STA. 11+95 +/- (DRIVEWAY)

PHASE 2

STEP 1  
USING RSD 1101.02 SHEET 1 OF 19 AND SHEETS TMP-04 AND TMP-05, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT:  
- -L- STA. 13+50 +/- TO -L- STA. 17+76 +/- (PROPOSED ROADWAY APPROACH)  
- -L- STA. 17+76 +/- TO -L- STA. 27+38 +/- (PROPOSED BRIDGE NO. 09)  
- -L- STA. 27+38 +/- TO -L- STA. 29+13 +/- (PROPOSED ROADWAY APPROACH)  
- -Y1- STA. 10+00 +/- TO -Y1- STA. 10+35 +/-

REFERENCE BOATER SAFETY PLAN FOR APPLICABLE CONSTRUCTION INFORMATION IN ORDER TO ENSURE THAT RECREATIONAL BOAT TRAFFIC IS MAINTAINED DURING CONSTRUCTION OF PROPOSED BRIDGE.

PHASE 3

IN A SINGLE AND CONTINUOUS OPERATION COMPLETE THE FOLLOWING STEPS:  
STEP 1  
USING RSD 1101.02 SHEET 1 OF 19 AND SHEETS TMP-06 AND TMP-07, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT, WEDGING ABOVE THE EXISTING PAVEMENT AS NEEDED:  
- -L- STA. 11+00 +/- TO -L- STA. 14+50 +/-  
- -Y1- STA. 10+35 +/- TO -Y1- STA. 12+50 +/-  
- -L- STA. 28+75 +/- TO -L- STA. 32+00 +/-  
- EXISTING ALIGNMENT WEDGING TO MAINTAIN TRAFFIC.

STEP 2  
CONSTRUCT TEMPORARY PAVEMENT MARKINGS ACCORDING TO TMP-06 AND TMP-07.

STEP 3  
SHIFT TRAFFIC INTO A TWO-LANE TWO-WAY PATTERN ALONG THE NEWLY CONSTRUCTED -L- (SR 1112 / MOUTH OF THE CREEK ROAD) AND CLOSE THE EXISTING ROADWAY.

PHASE 4

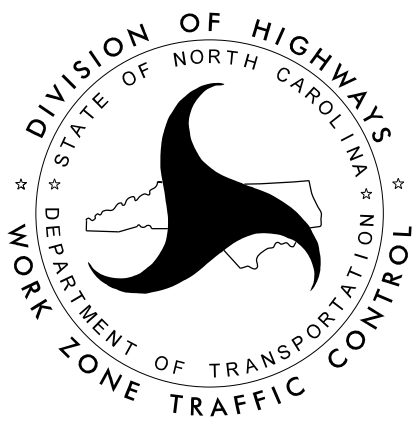
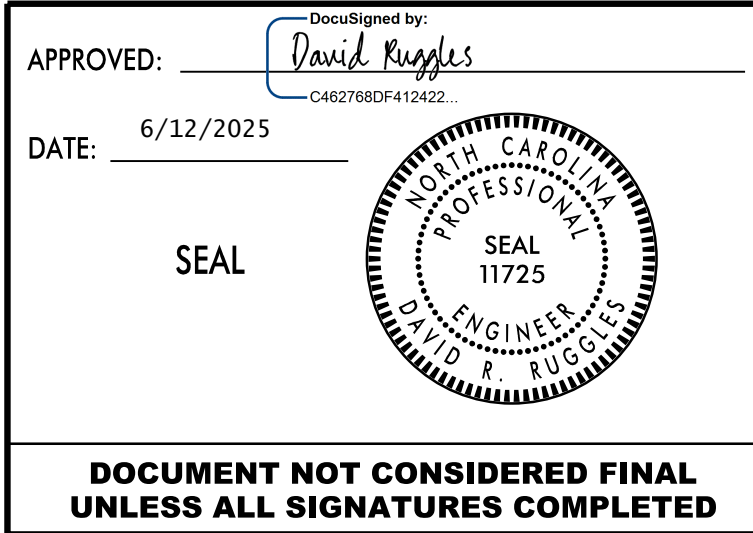
STEP 1  
USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-08 THRU TMP-09, REMOVE EXISTING ASPHALT PAVEMENT AS WELL AS THE EXISTING BRIDGE NO. 09 STRUCTURE FROM THE FOLLOWING LOCATIONS:  
- -L- STA. 12+12 +/- TO -L- STA. 14+70 +/-  
- -L- STA. 16+31 +/- TO -L- STA. 16+50 +/- (ALONG DRIVEWAY)  
- -L- STA. 17+60 +/- TO -L- STA. 23+80 +/- (EXISTING BRIDGE NO. 09)  
- -Y1- STA. 11+00 +/- TO -L- STA. 30+19 +/-

REFERENCE BOATER SAFETY PLAN FOR APPLICABLE CONSTRUCTION INFORMATION IN ORDER TO ENSURE THAT RECREATIONAL BOAT TRAFFIC IS MAINTAINED DURING REMOVAL OF EXISTING BRIDGE.

STEP 2  
USING RSD 1101.02 SHEET 1 OF 14, CONSTRUCT THE FINAL LAYER OF ASPHALT FROM:  
- -L- STA. 11+00.00 TO -L- STA. 32+00.00  
- -Y1- STA. 10+00.00 TO -Y1- STA. 12+50.00  
- DRIVEWAY CONNECTION ROAD

STEP 3  
CONSTRUCT THE FINAL PAVMENT MARKINGS ACCORDING TO THE FINAL PAVEMENT MARKING PLAN.

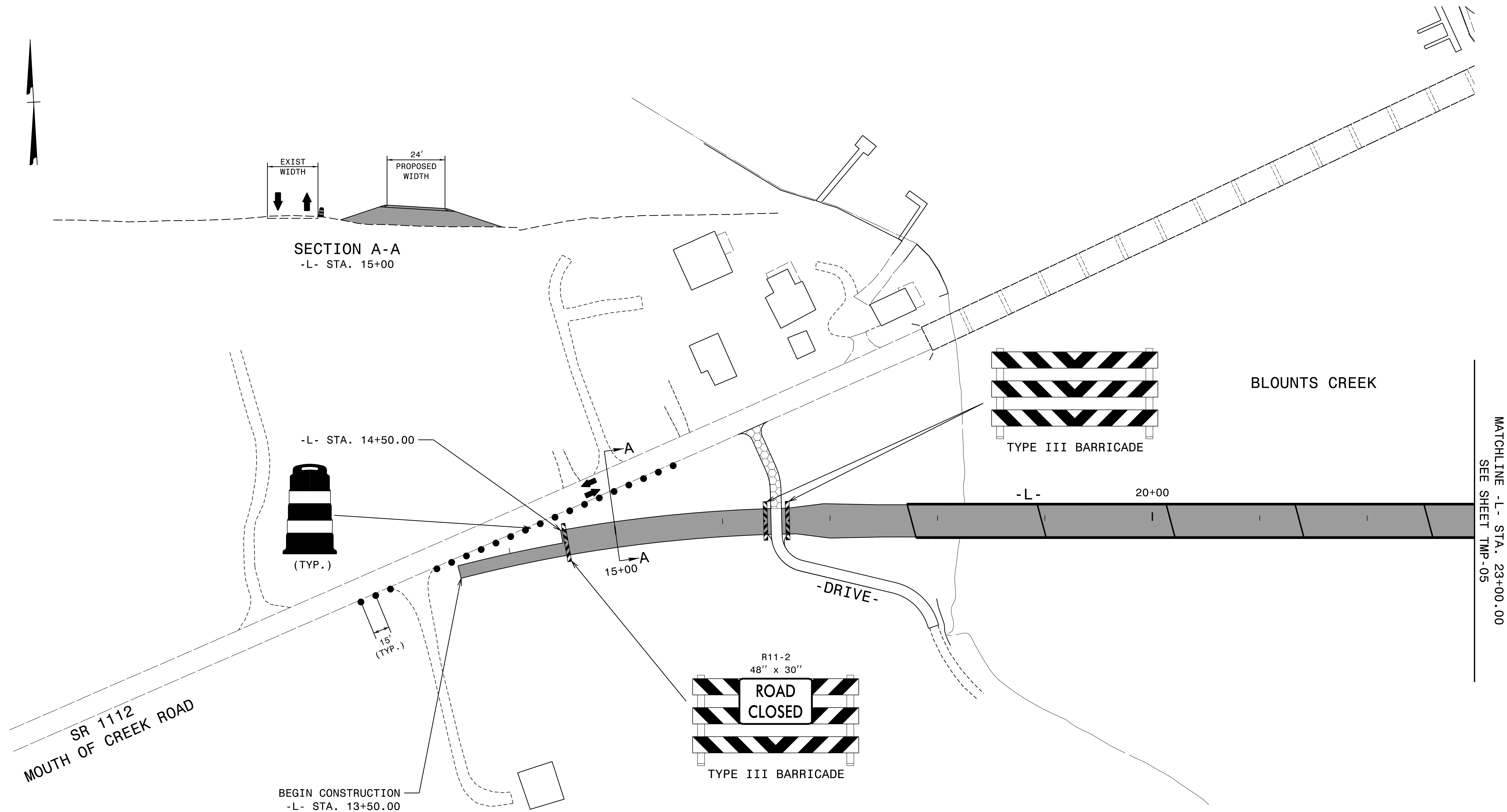
STEP 4  
REMOVE ANY REMAINING WORK ZONE TRAFFIC CONTROL DEVICES FROM THE PROJECT LIMITS.



TRANSPORTATION  
OPERATIONS  
PLAN





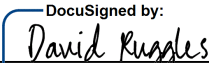


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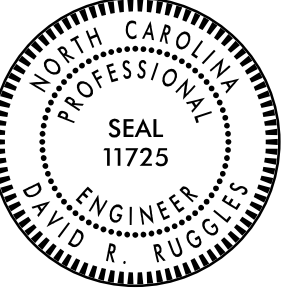


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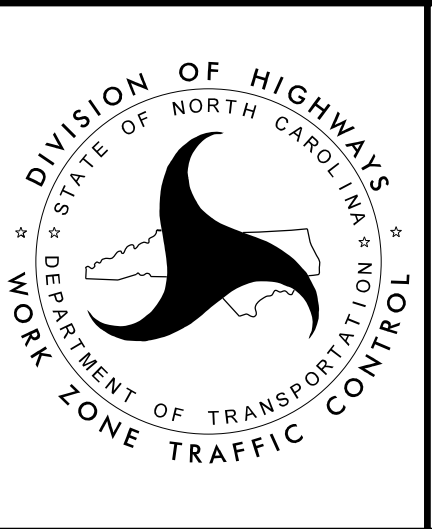
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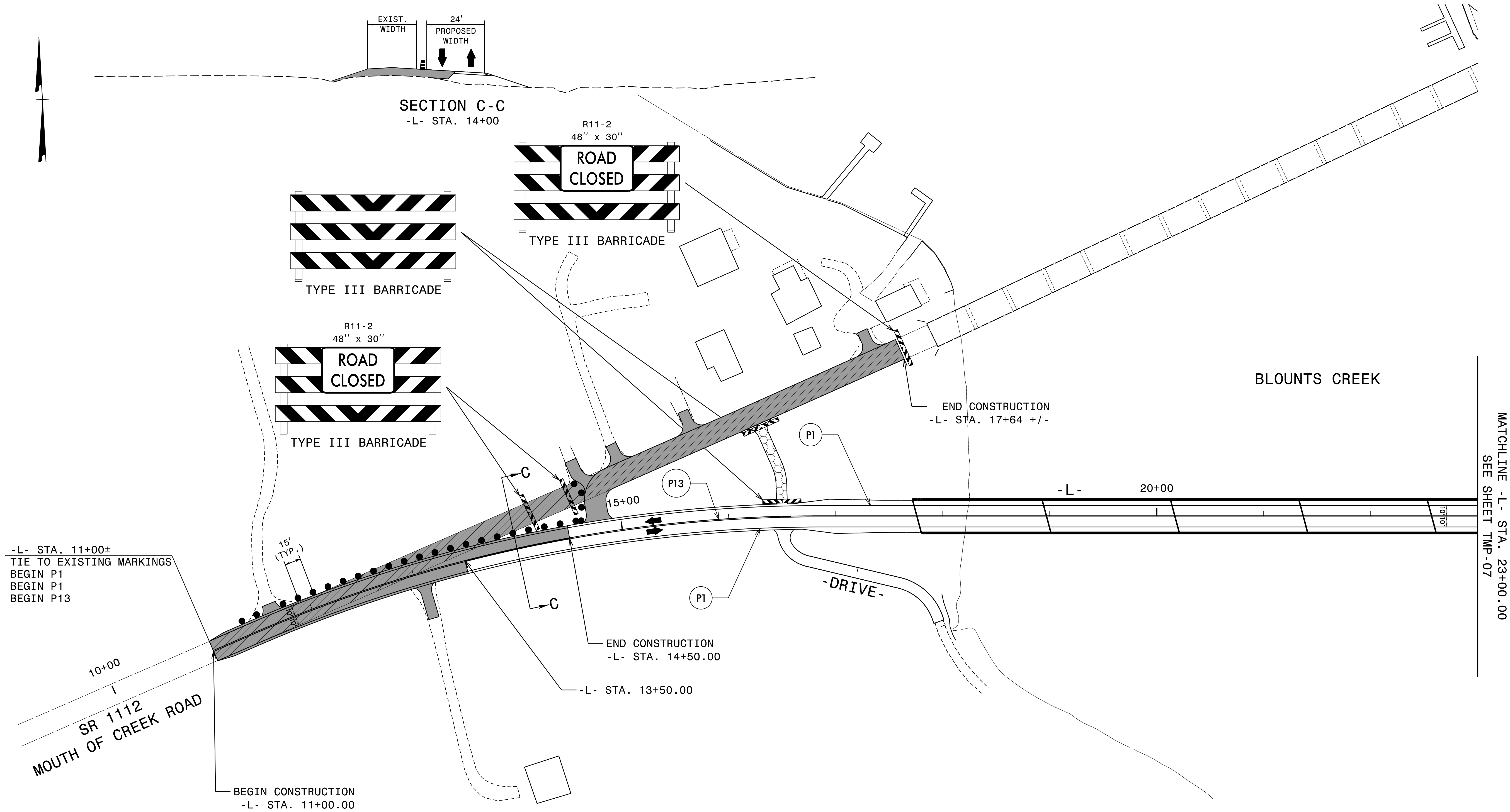
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**TEMPORARY TRAFFIC  
CONTROL PHASE 2  
DETAIL**







-L- STA. 11+00±  
TIE TO EXISTING MARKINGS  
BEGIN P1  
BEGIN P1  
BEGIN P13

SR 1112  
MOUTH OF CREEK ROAD

BEGIN CONSTRUCTION  
-L- STA. 11+00.00

END CONSTRUCTION  
-L- STA. 14+50.00

END CONSTRUCTION  
-L- STA. 17+64 +/-

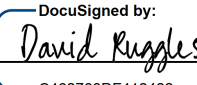
MATCHLINE -L- STA. 23+00.00  
SEE SHEET TMP-07

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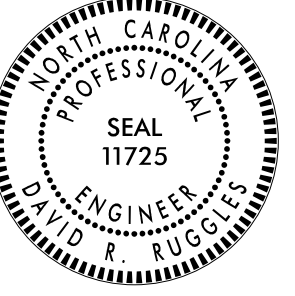
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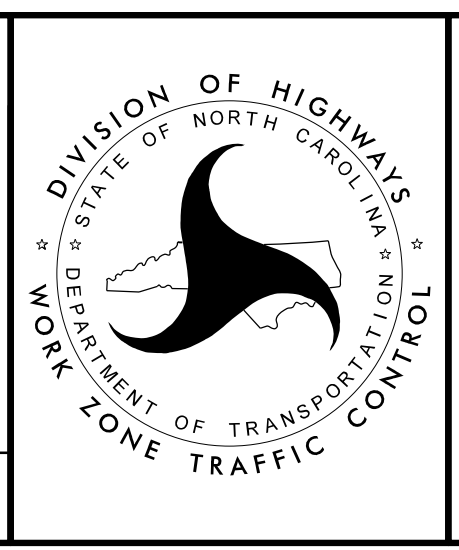
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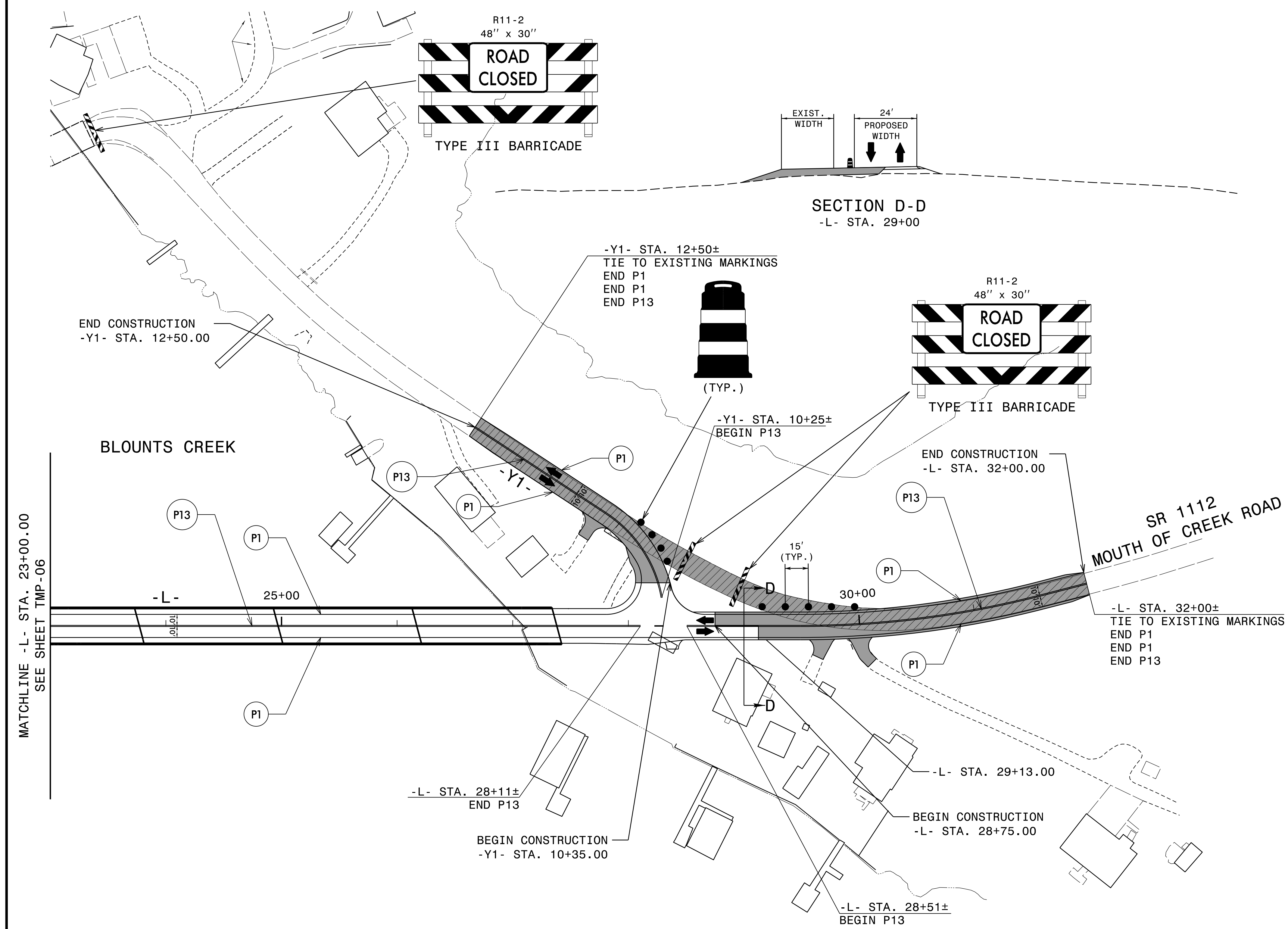


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**TEMPORARY TRAFFIC  
CONTROL PHASE 3  
DETAIL**



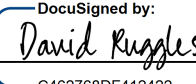


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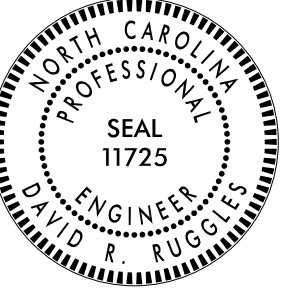


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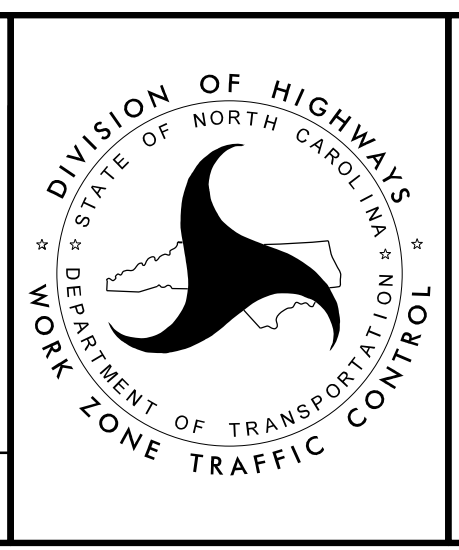
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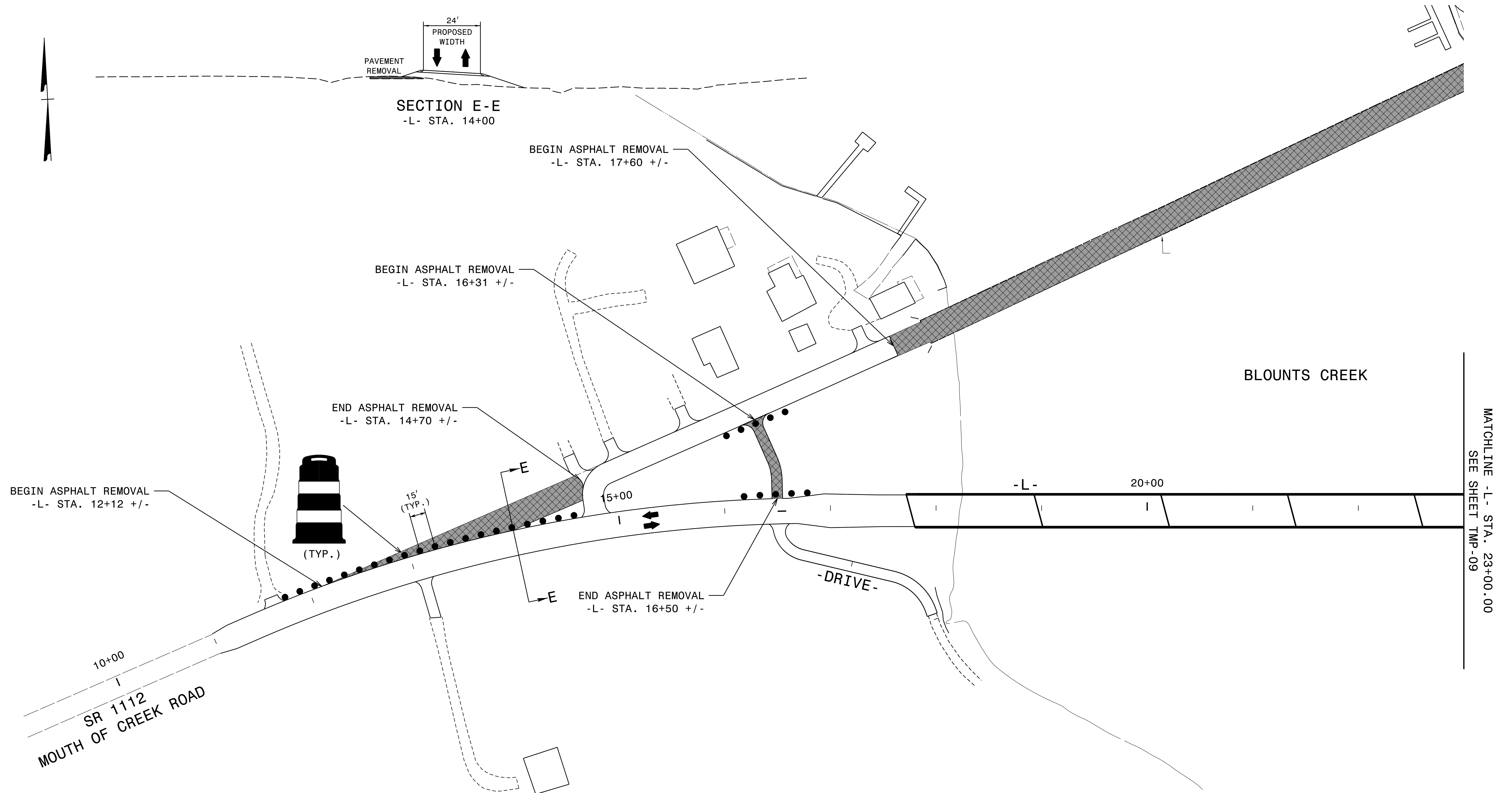
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TEMPORARY TRAFFIC  
CONTROL PHASE 3  
DETAIL

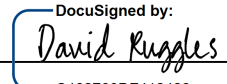


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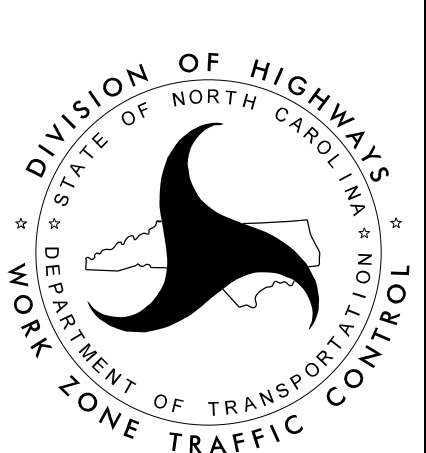
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**TEMPORARY TRAFFIC  
CONTROL PHASE 4  
DETAIL**



