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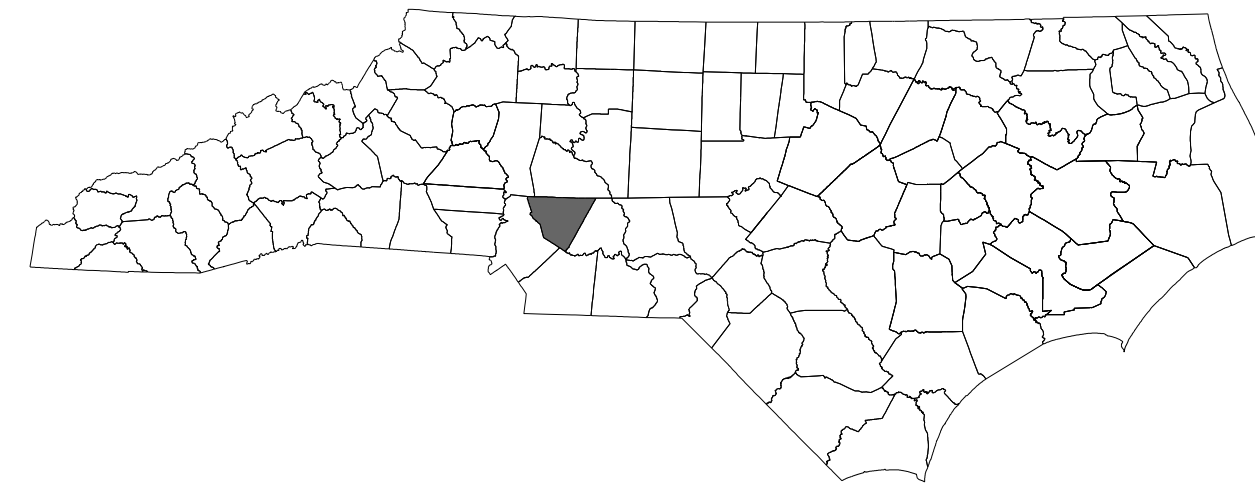
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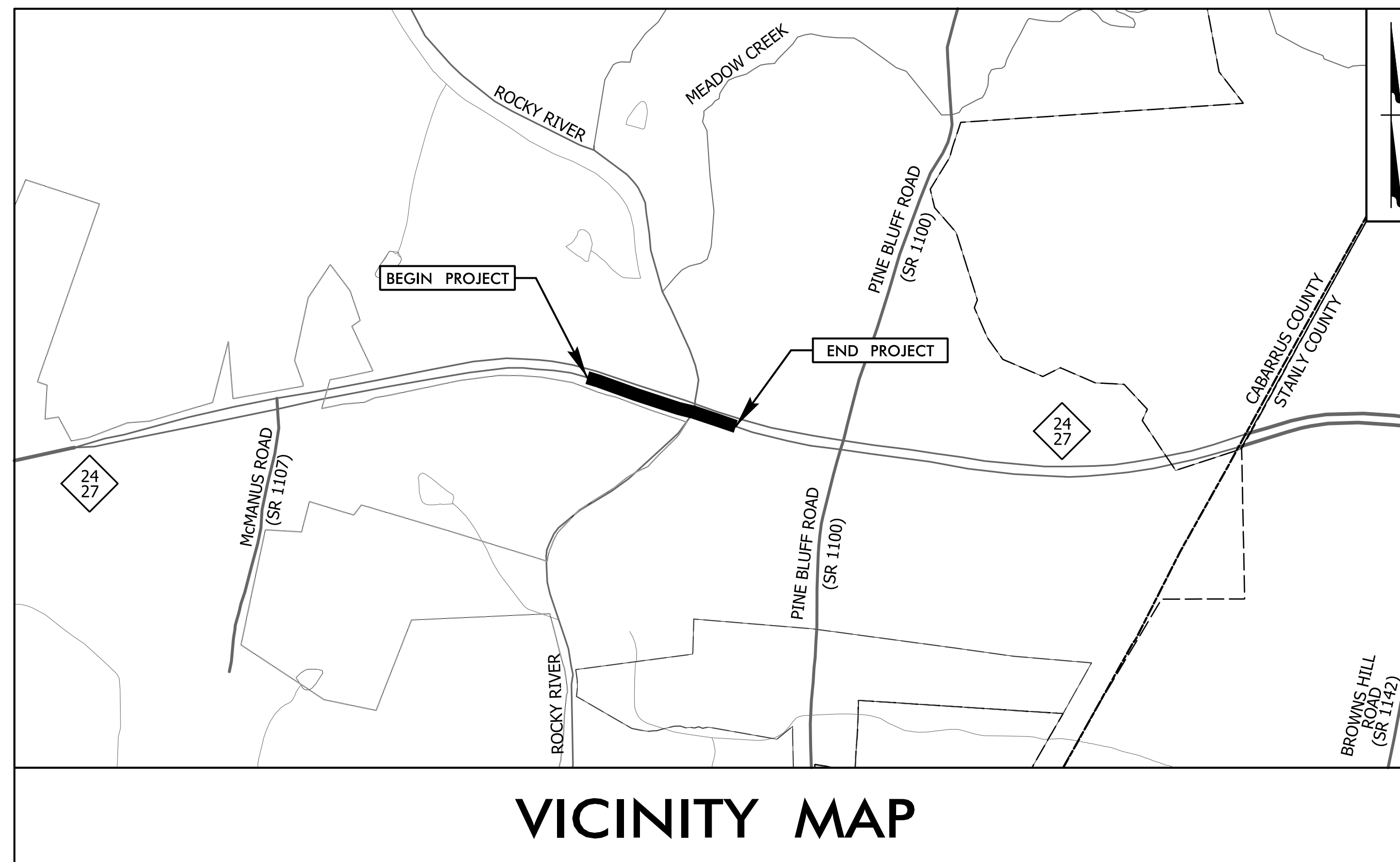
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**CABARRUS COUNTY**



**LOCATION: BRIDGE #022 OVER ROCKY RIVER ON (EASTBOUND NC 24/27)**



**VICINITY MAP**

**INDEX OF SHEETS**

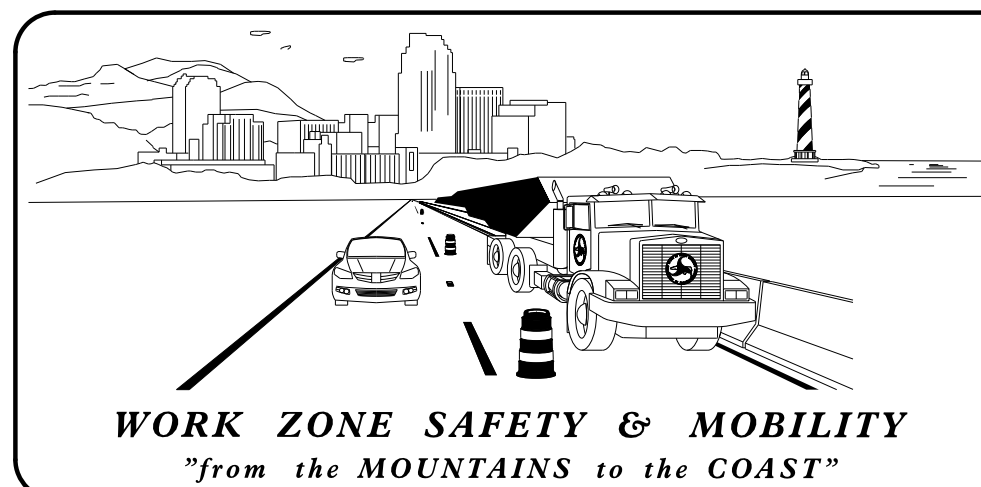
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	WORK ZONE TEMPORARY ASPHALT ISLAND
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 & 5	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-6, 7 & 8	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-9 & 10	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL
TMP-11 & 12	TEMPORARY TRAFFIC CONTROL PHASE IV DETAIL

SHEET NO.  
TMP-1

**B-5810**

**TIP PROJECT:**

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**PLANS PREPARED BY:**

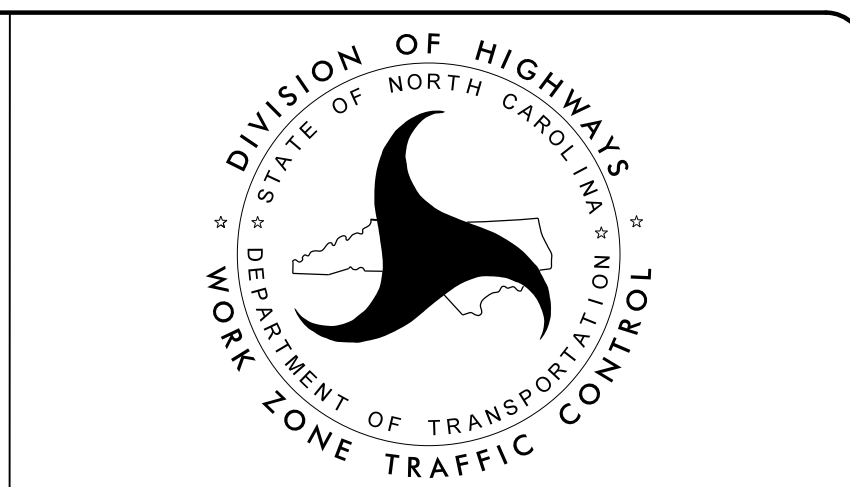
NIKKI T. HONEYCUTT, PE  
TRAFFIC ENGINEER

MAAMOUN K. ABDELAZIZ  
TRANSPORTATION DESIGNER

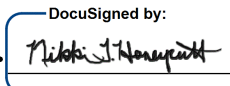
**NCDOT CONTACTS:**

KARMEN DAIS, PE  
PROJECT ENGINEER

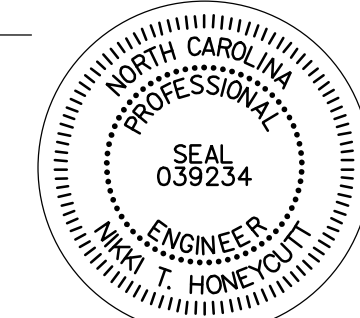
KARMEN DAIS, PE  
PROJECT DESIGN ENGINEER



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**APPROVED:**   
**DATE:** 3/4/2022

**SEAL**



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# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
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
1160.01	TEMPORARY CRASH CUSHION
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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

# 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

## 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

### PAINT 4"

- P1 WHITE EDGELINE (4")
- P2 WHITE SOLID LANE LINE (4")
- P3 10 FT. WHITE SKIP (4")
- P4 3 FT. - 9 FT./SP WHITE MINISKIP (4")
- P10 YELLOW EDGELINE (4")

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# PROJECT NOTES

## 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 UNDESIRE 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) MAINTAIN AT LEAST ONE LANE OF TRAVEL IN EACH DIRECTION AT ALL TIMES.
- B) 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.
- C) 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.
- D) 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.
- E) 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.
- F) 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

- G) 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.

- H) 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) 350 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- J) 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.
- K) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### 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 ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN OPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

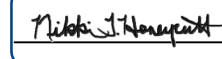
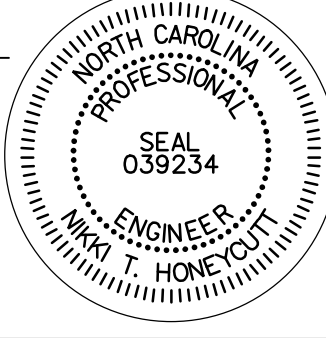

- N) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
NC 24/27 EASTBOUND (-L-)	PAINT	NONE
NC 24/27 WESTBOUND (-XL-)	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.

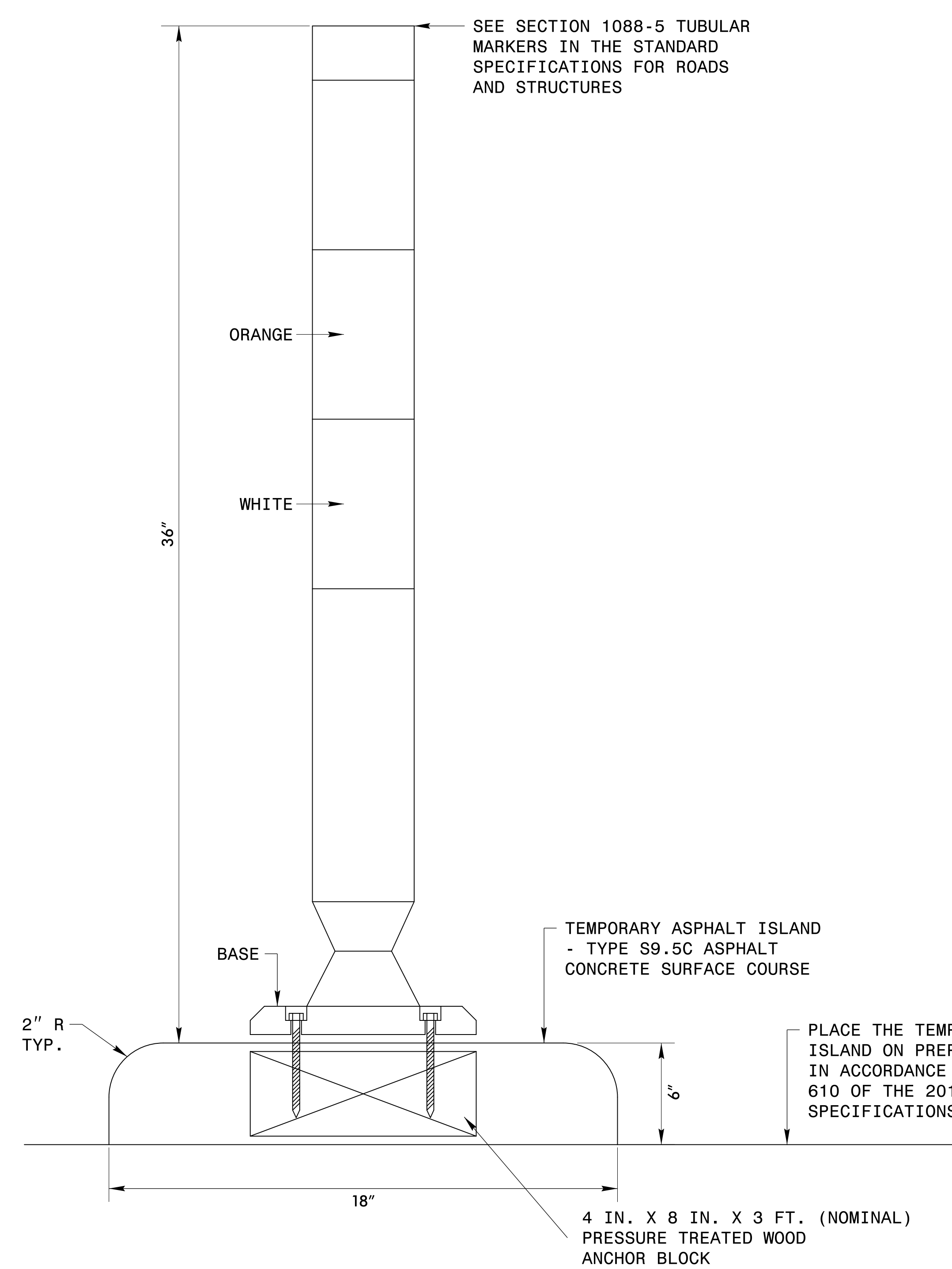
## LOCAL NOTES

1. CONTACT CABARRUS COUNTY EMERGENCY SERVICES AND SCHOOLS AT LEAST ONE MONTH PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BUILD AS MUCH AS POSSIBLE AWAY FROM TRAFFIC.
3. TRANSPORT OF MOBILE HOMES WILL NOT BE ALLOWED ON THIS ROUTE DURING CONSTRUCTION. THE DIVISION WILL MAKE NECESSARY CONTACT TO ALERT USERS.

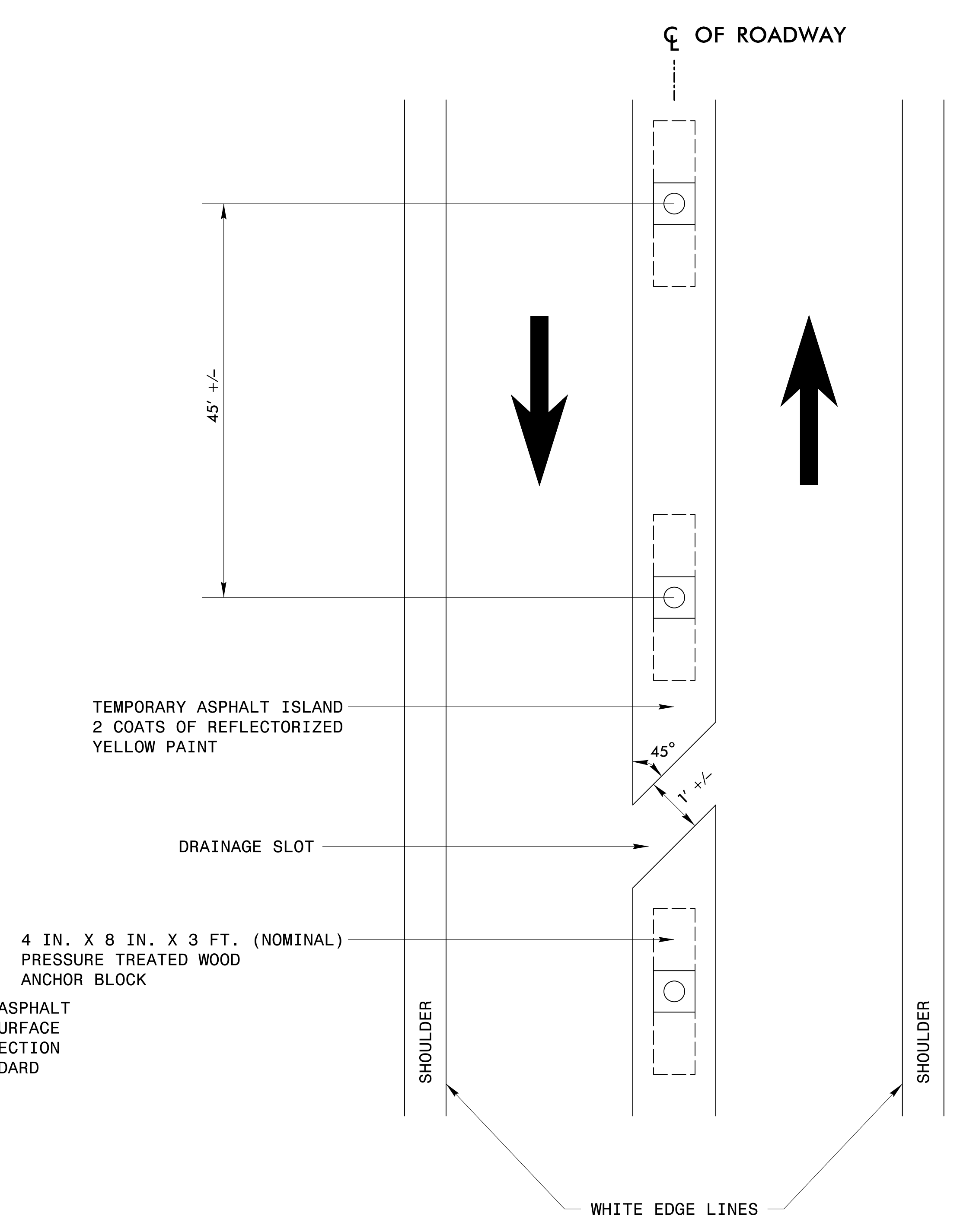
<p>APPROVED: </p> <p>DATE: 6/3/2022</p> <p style="text-align: center;">SEAL</p>			<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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### SECTION VIEW



### TOP VIEW



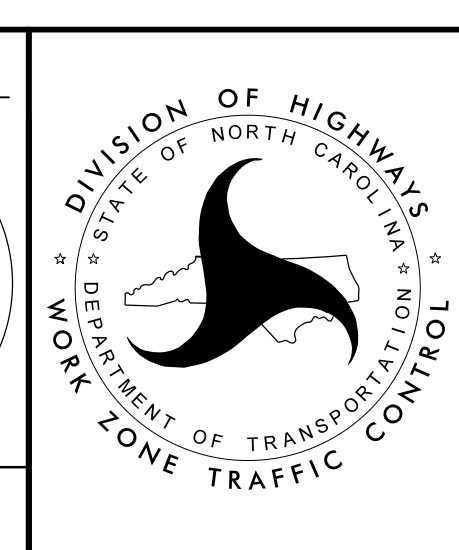
### GENERAL NOTES

- DRAINAGE SLOTS SHALL BE LOCATED IN AREAS OF ROADWAY SUPERELEVATION AS DETERMINED ON SITE. THE SLOTS SHALL BE ANGLED IN THE SAME DIRECTION AS THE WATER FLOW, AT APPROXIMATELY A 45 DEGREE ANGLE.
- ISLAND SHALL BE PAINTED WITH 2 COATS OF REFLECTORIZED YELLOW PAINT. PRECAUTIONS SHALL BE TAKEN TO PREVENT OVERSPRAY ONTO THE ADJACENT PAVEMENT.
- ISLAND MAY BE REMOVED BY SCRAPING FROM ROADWAY SURFACE WITH A FRONT-END LOADER.
- HORIZONTAL DRAINAGE SLOTS ON TEMPORARY ASPHALT ISLAND, 4" X 12" SLOTS WITH 20' +/- SPACING FROM -XL- STA. 13+41 TO -XL- STA. 19+21 AND FROM -XL- STA. 26+73 TO -XL- STA. 32+33.

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DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

TEMPORARY ASPHALT ISLAND

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# PROJECT PHASING

## PHASE I

- STEP 1: INSTALL WORK ZONE WARNING SIGNS ON -L- (NC 24 / 27) AS REQUIRED IN PROJECT NOTES
- STEP 2: USING RSD 1101.02, SHEET 3 OF 14, PERFORM THE FOLLOWING: (SEE SHEETS TMP-4 AND TMP-5)
- AWAY FROM TRAFFIC CONSTRUCT -XL- ALIGNMENT FROM -XL- STA 11+48± TO -XL- STA 18+17± AND -XL- STA 28+48± TO -XL- STA 32+56
  - CONSTRUCT ASPHALT ISLAND FROM -XL- STA 30+15± TO -XL- STA 32+34±

## PHASE II

- STEP 1: USING RSD 1101.03, SHEET 4 OF 9, PERFORM THE FOLLOWING: (SEE SHEETS TMP-6, TMP-7 AND TMP-8)
- INSTALL THE WESTBOUND LANE CLOSURE SHIFTING TRAFFIC TO A SINGLE WESTBOUND LANE OF NC 24 / 27 AS SHOWN ON SHEETS TMP-7 AND TMP-8
- STEP 2: AWAY FROM TRAFFIC:
- CONSTRUCT ASPHALT ISLAND FROM -XL- STA 13+40± TO -XL- STA 30+15±
  - PLACE TEMPORARY PAVEMENT MARKINGS ALONG WESTBOUND NC 24 / 27
  - PLACE TEMPORARY PAVEMENT MARKING ALONG THE -XL- ALIGNMENT
  - MODIFY EXISTING GUARDRAIL (RE-LAP FOR EASTBOUND DIRECTION)

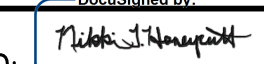
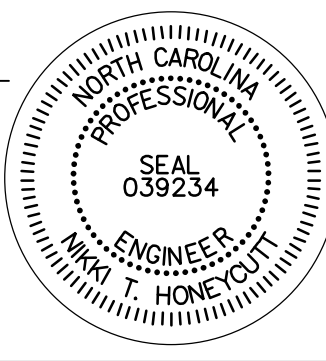

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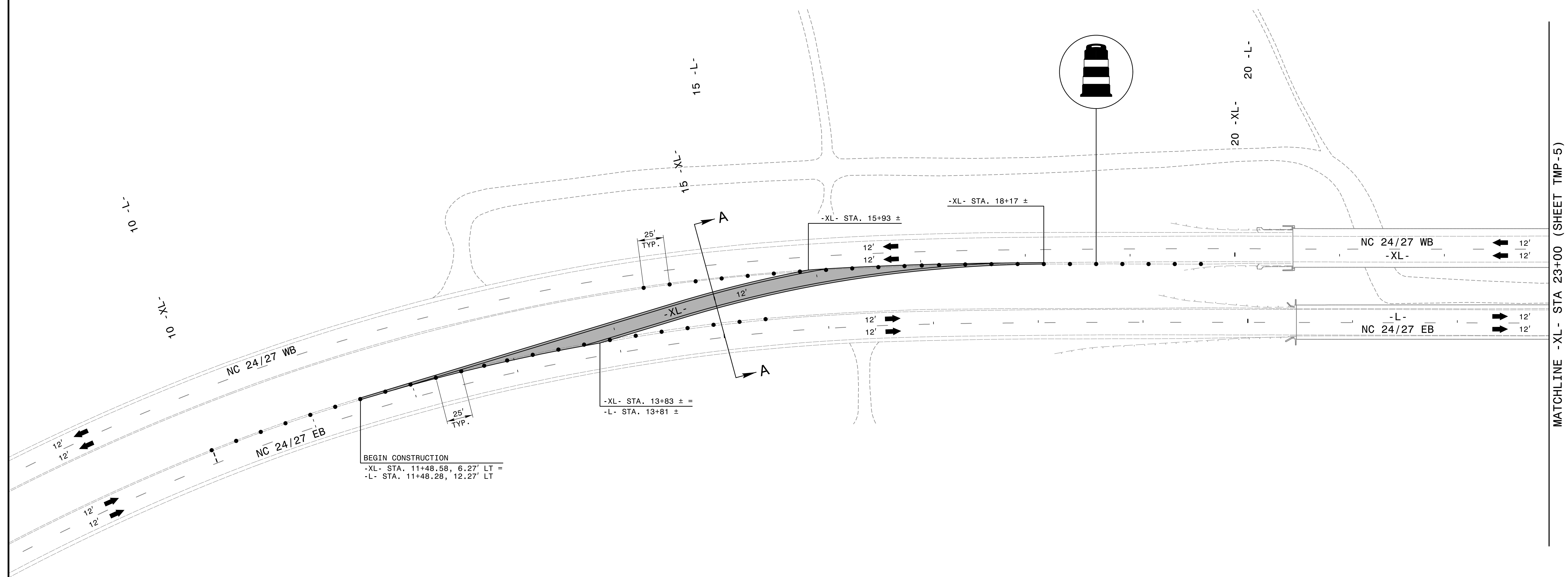
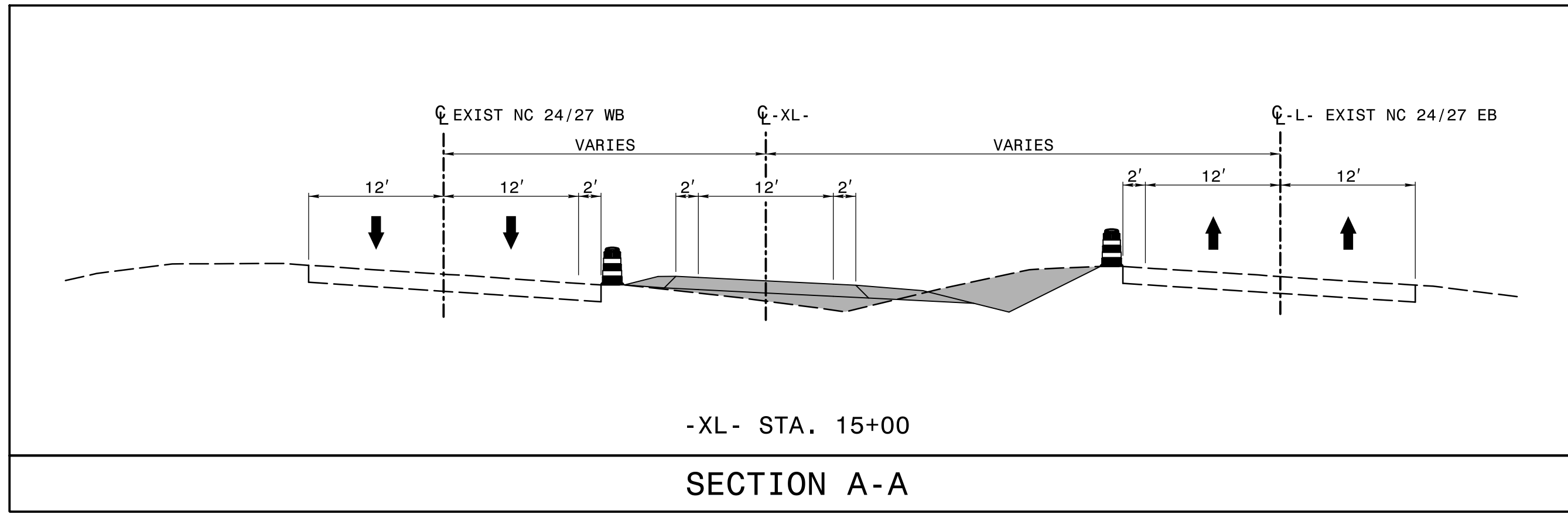
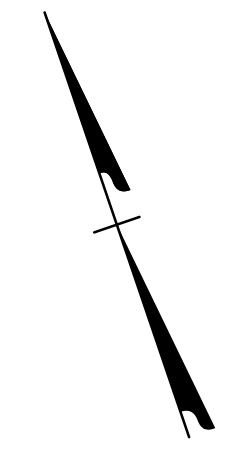
- STEP 1: USING RSD 1101.03, SHEET 4 OF 9, PERFORM THE FOLLOWING: (SEE SHEETS TMP-9 AND TMP-10)
- INSTALL THE EASTBOUND LANE CLOSURE SHIFTING TRAFFIC ONTO A SINGLE EASTBOUND LANE OF NC 24 / 27
  - SHIFT EASTBOUND TRAFFIC ONTO THE -XL- ALIGNMENT
- STEP 2: AWAY FROM TRAFFIC: (SEE SHEETS TMP-9 AND TMP-10)
- DEMOLITION OF EASTBOUND NC 24 / 27 EXISTING BRIDGE TO BE COMPLETED BETWEEN SEPTEMBER 1ST AND MARCH 31ST
  - CONSTRUCT THE EASTBOUND NC 24 / 27 PROPOSED BRIDGE
  - PROPOSED ROADWAY ALIGNMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE
  - PLACE TEMPORARY PAVEMENT MARKING PAINT IN SAME CONFIGURATION AS FINAL PAVEMENT MARKINGS ON EASTBOUND NC 24 / 27 BRIDGE

## PHASE IV

- STEP 1: USING RSD 1101.02, SHEET 3 OF 14, PERFORM THE FOLLOWING: (SEE SHEETS TMP-11 AND TMP-12)
- REMOVE THE EASTBOUND SINGLE LANE CLOSURE USED TO SHIFT TRAFFIC ONTO THE CROSSOVER
  - REMOVE ALL CONFLICTING PAVEMENT MARKINGS
  - SHIFT TRAFFIC ONTO THE NEW ROADWAY AND BRIDGE PROVIDING TWO EASTBOUND LANES
- STEP 2: USING RSD 1101.02, SHEET 3 OF 14, PERFORM THE FOLLOWING: (SEE SHEETS TMP-11 AND TMP-12)
- REMOVE -XL- DETOURS
  - REMOVE ASPHALT ISLAND INSTALLED IN PHASES 1 & 2
  - RETURN GUARDRAIL ON NC 24/27 WESTBOUND TO THE ORIGINAL CONFIGURATION
  - REMOVE TEMPORARY PAINT PAVEMENT MARKINGS USED FOR LANE SHIFTS AND LANE CLOSURES AND COMPLETE PAVEMENT REPAIRS AFTER REMOVAL AS NEEDED
  - INSTALL PAVEMENT MARKINGS IN THE ORIGINAL CONFIGURATIONS WHERE TEMPORARY PAVEMENT MARKINGS WERE USED FOR LANE SHIFTS AND LANE CLOSURES
  - REMOVE WESTBOUND TEMPORARY LANE CLOSURE AND OPEN TWO LANES TO WESTBOUND TRAFFIC
- STEP 3: PLACE EASTBOUND NC 24 / 27 FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS (SEE PAVEMENT MARKING PLANS)
- STEP 4: REMOVE ALL TRAFFIC CONTROL DEVICES

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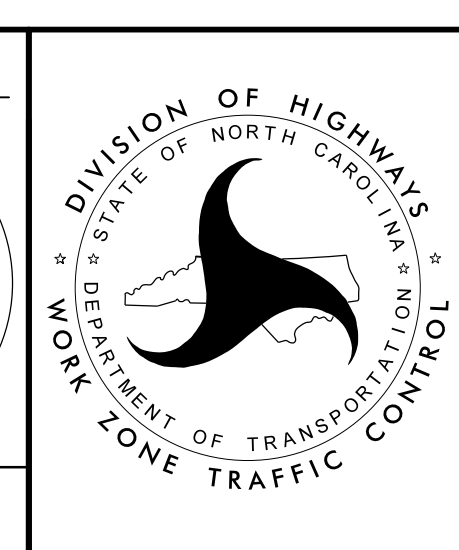


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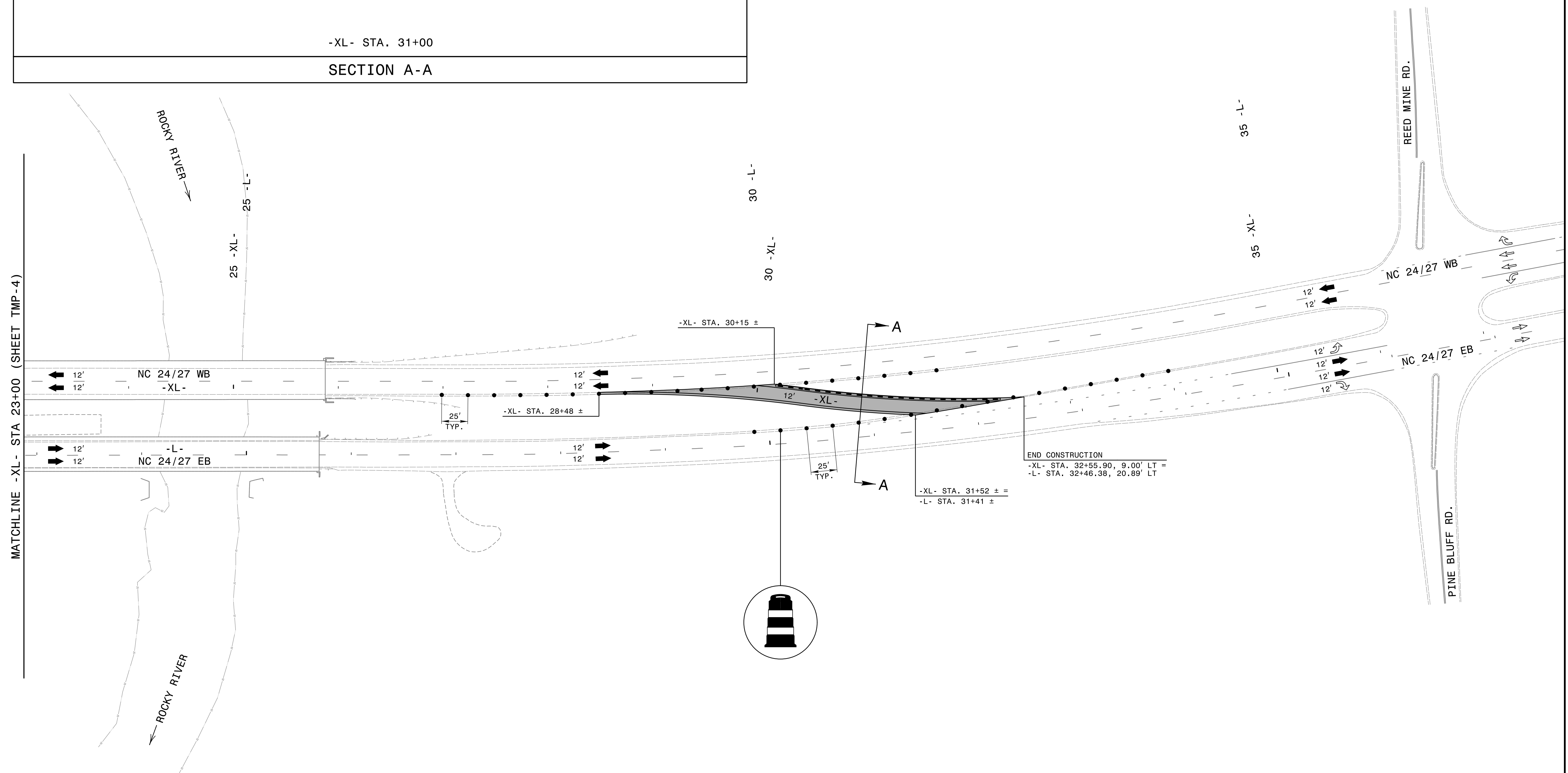
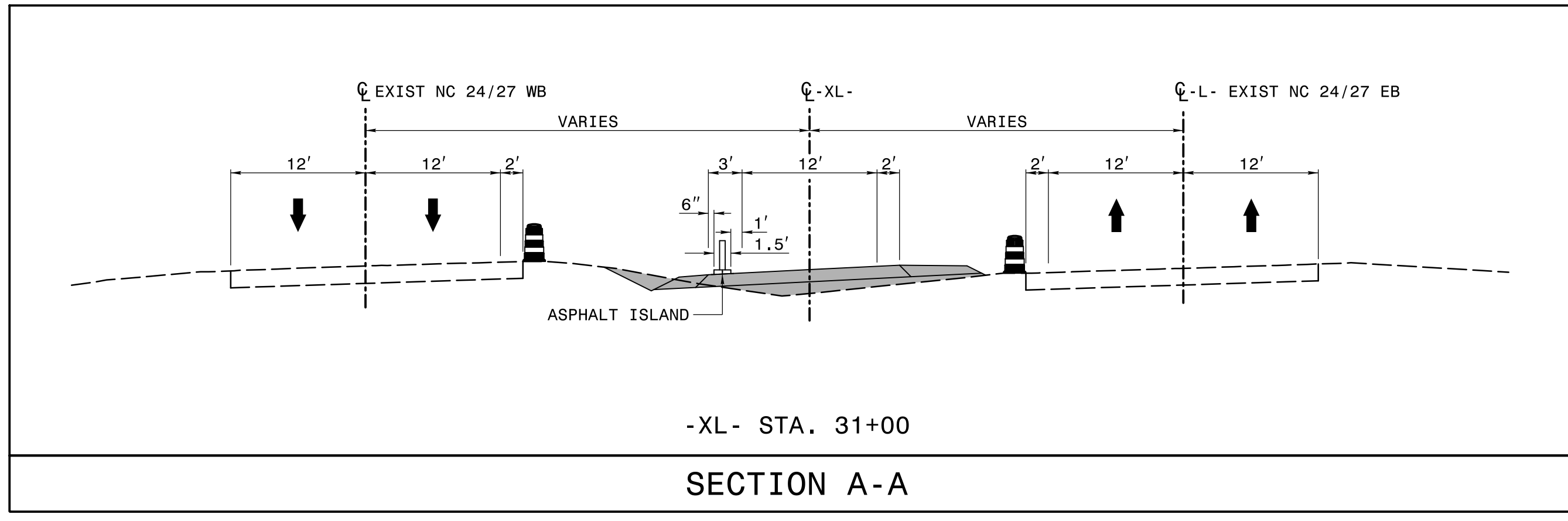
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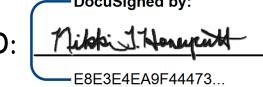
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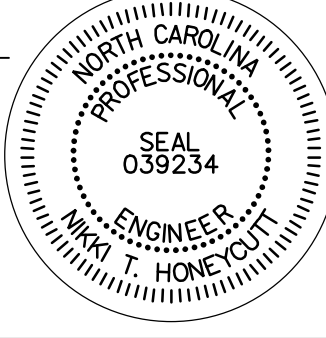
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 PHASE I DETAIL



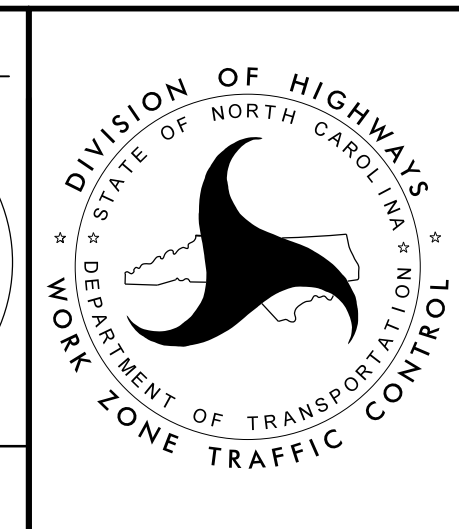
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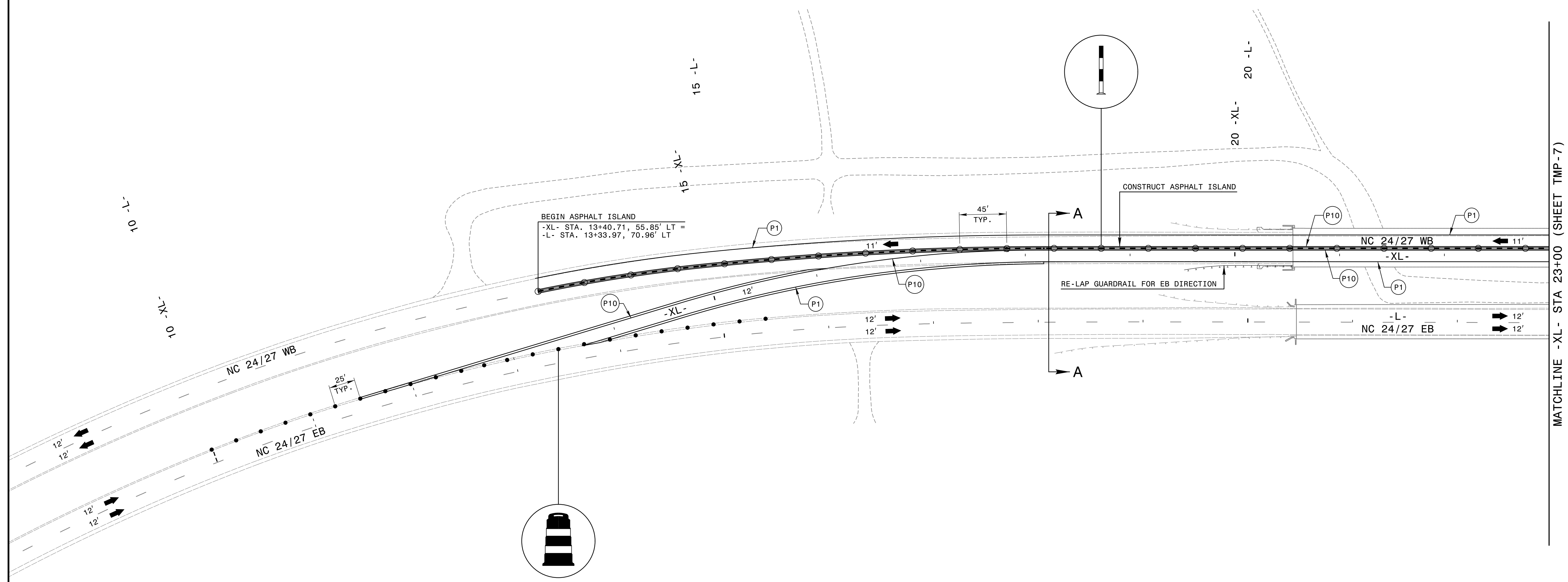
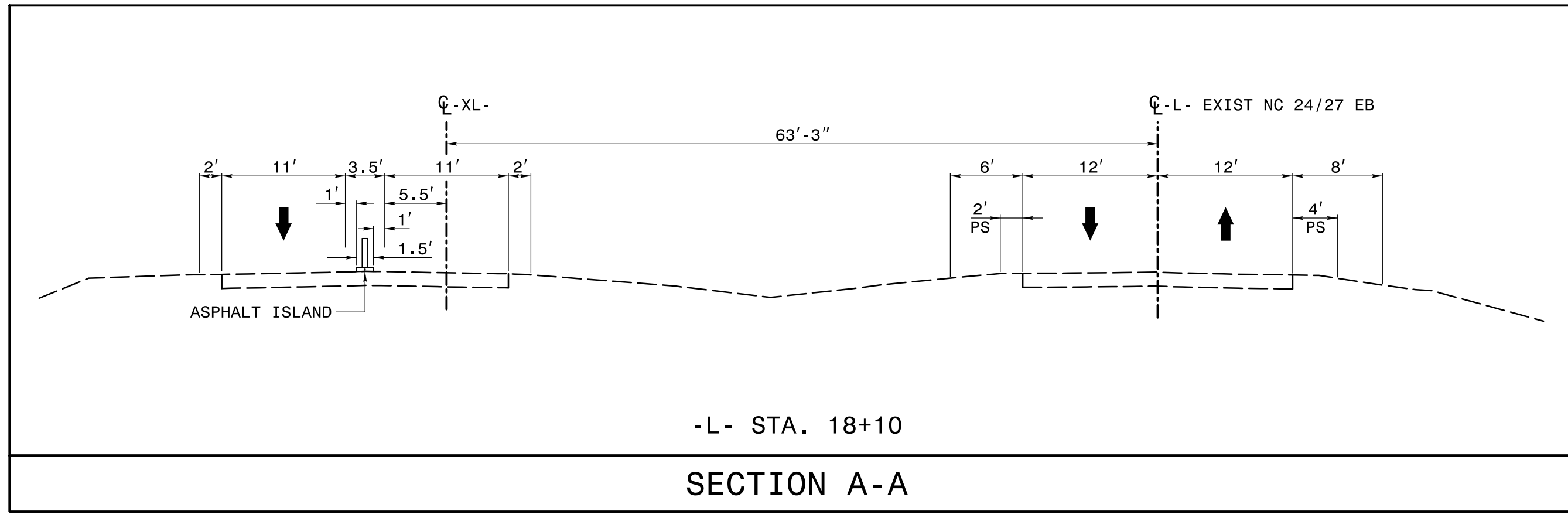


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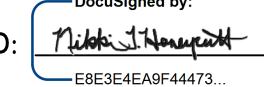
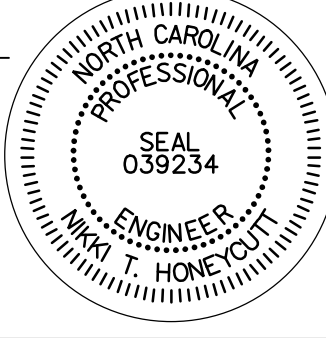



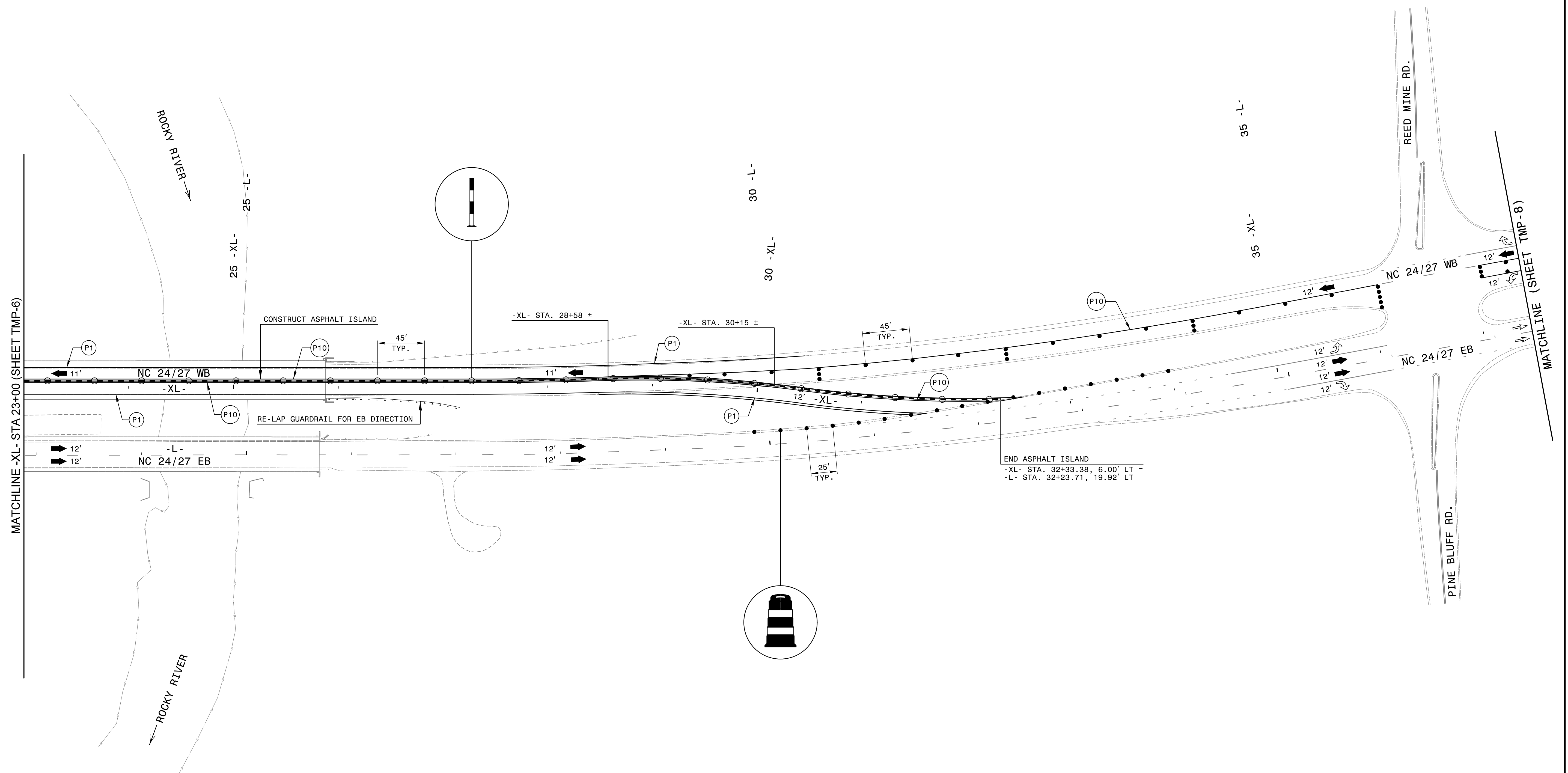
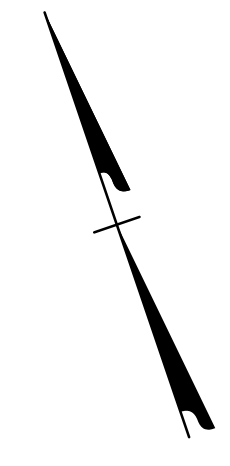
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CONTROL  
PHASE I DETAIL**



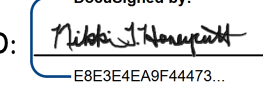


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APPROVED:  DATE: 3/4/2022  SEAL			<b>TEMPORARY TRAFFIC CONTROL          PHASE II DETAIL</b>
<b>DOCUMENT NOT CONSIDERED FINAL          UNLESS ALL SIGNATURES COMPLETED</b>			



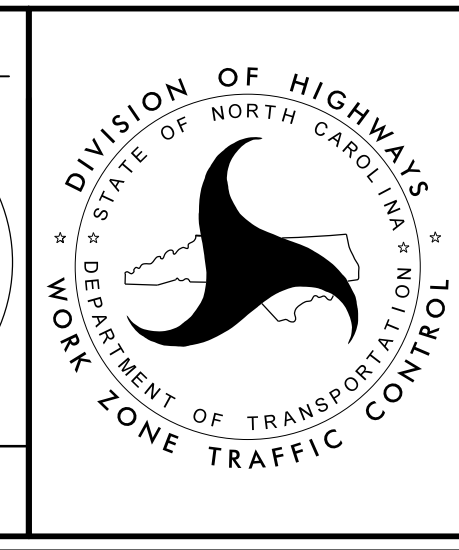
3/4/2022  
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 MooreDS

APPROVED:   
 DATE: 3/4/2022

SEAL

**ERIC E. HAYS**  
 ENGINEER  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 039234  
 WAKE COUNTY

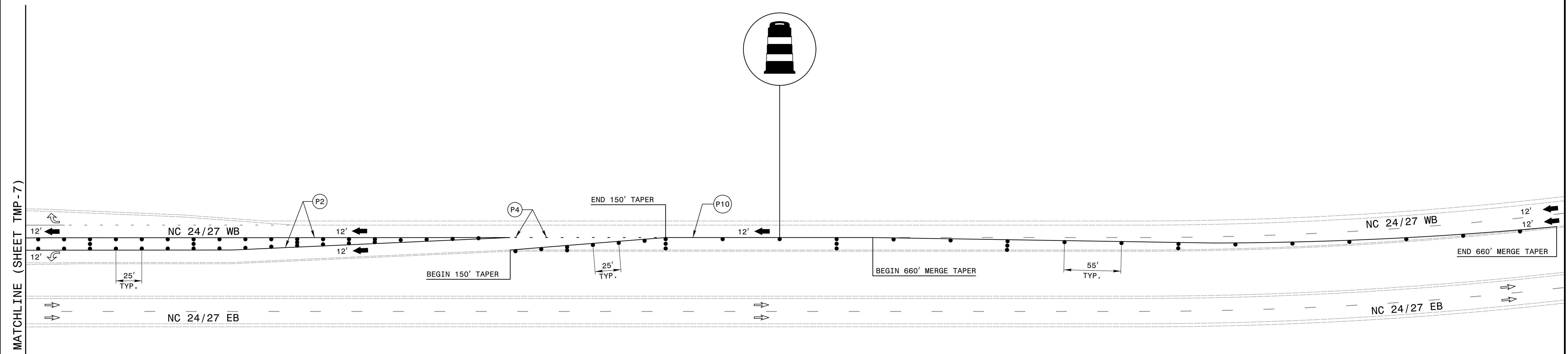
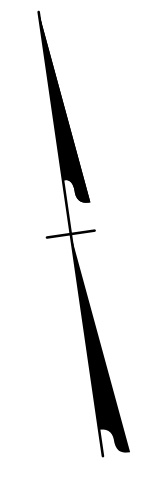
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 UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY TRAFFIC CONTROL  
 PHASE II DETAIL**

PROJ. REFERENCE NO.	SHEET NO.
B-5810	TMP-8

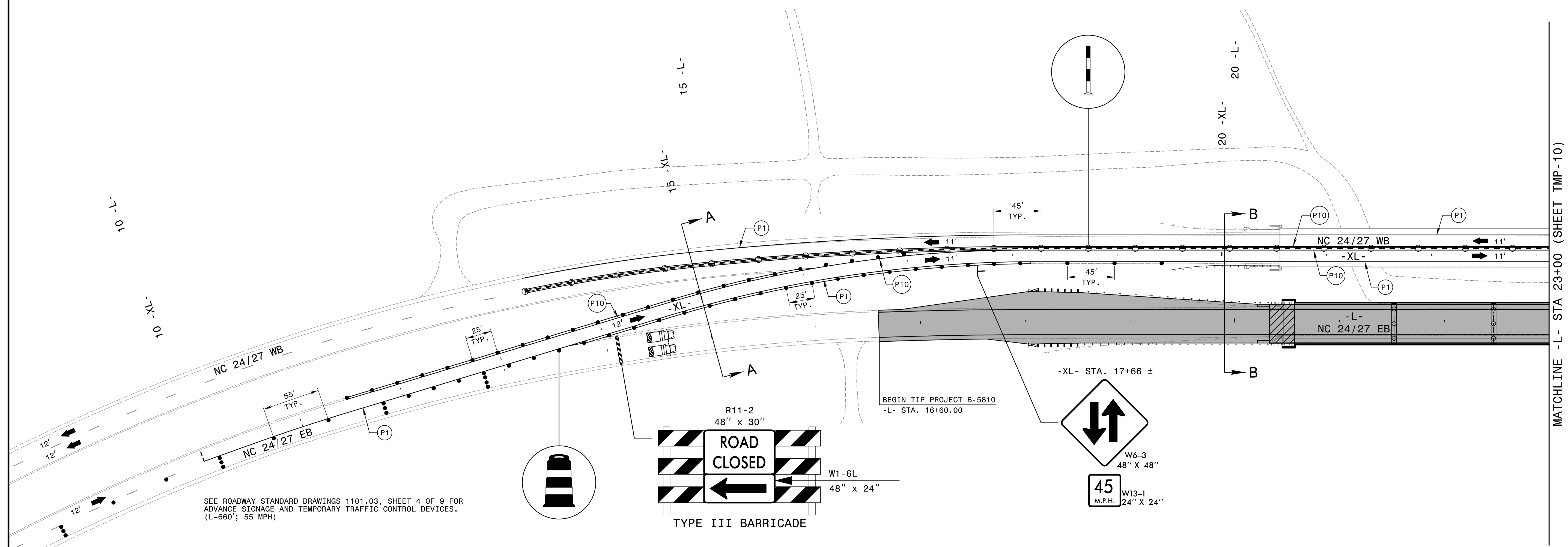
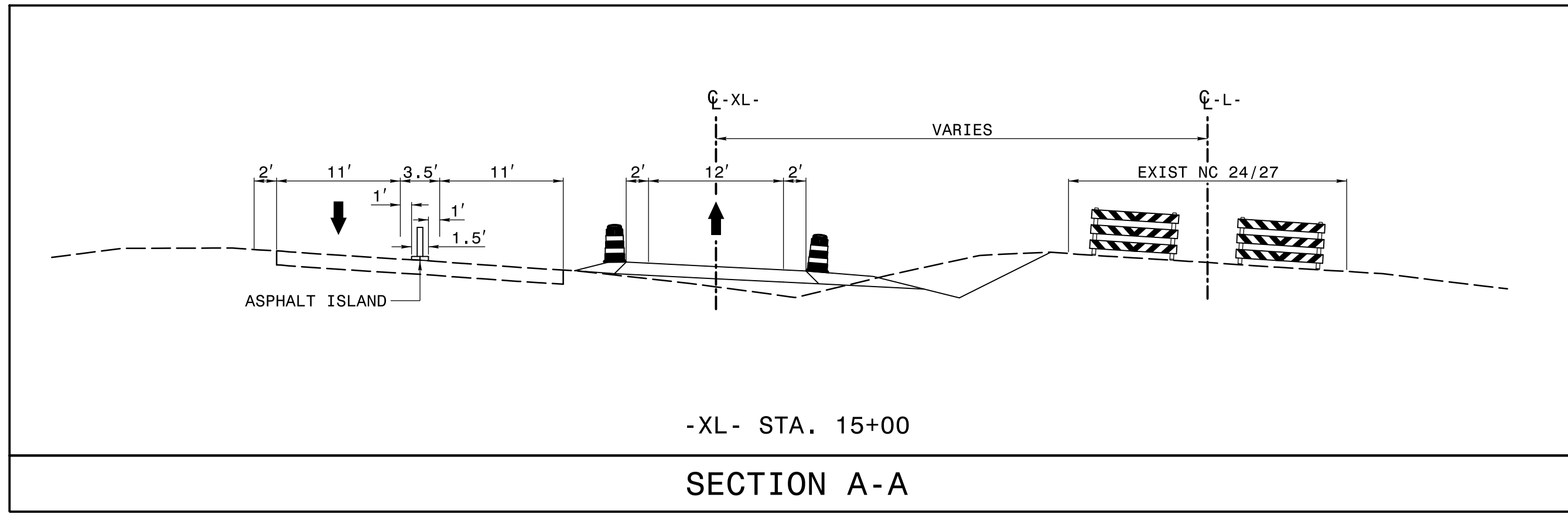
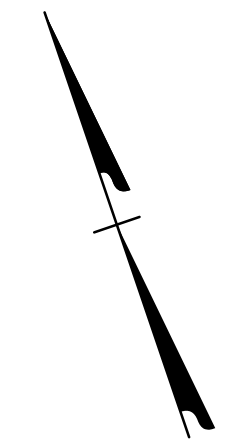
**STV** 100 Years  
 STV Engineers, Inc.  
 300 West Trade St., Suite 715  
 Charlotte, NC 28202  
 NC License Number F-0991



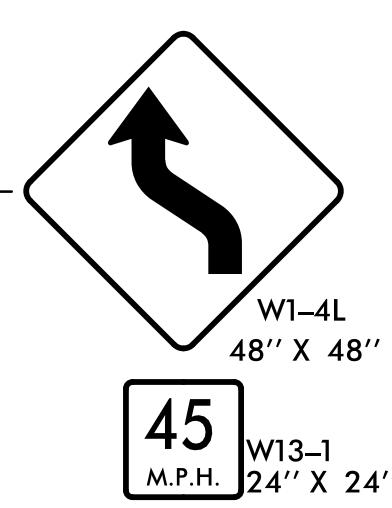
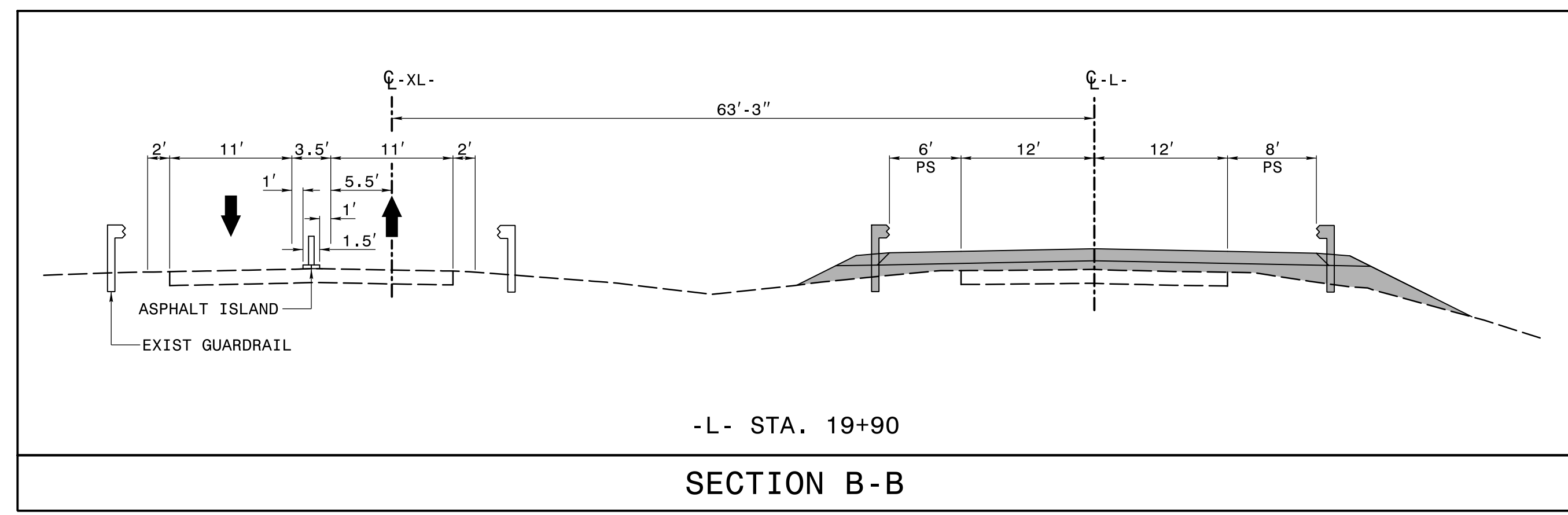
SEE ROADWAY STANDARD DRAWINGS 1101.03, SHEET 4 OF 9 FOR  
 ADVANCE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES.  
 (L=660'; 55 MPH)

3/4/2022  
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 MooreDS

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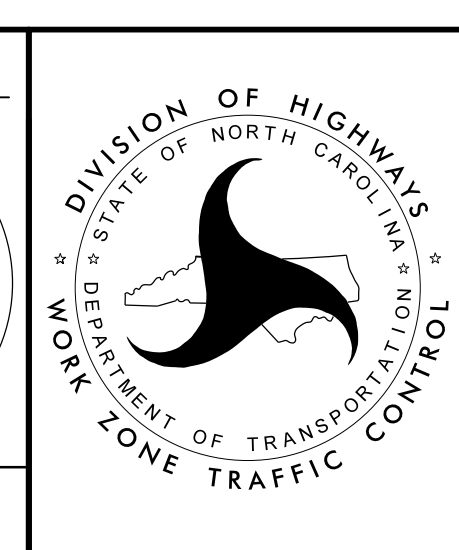
SEE ROADWAY STANDARD DRAWINGS 1101.03, SHEET 4 OF 9 FOR ADVANCE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES. (L=660'; 55 MPH)



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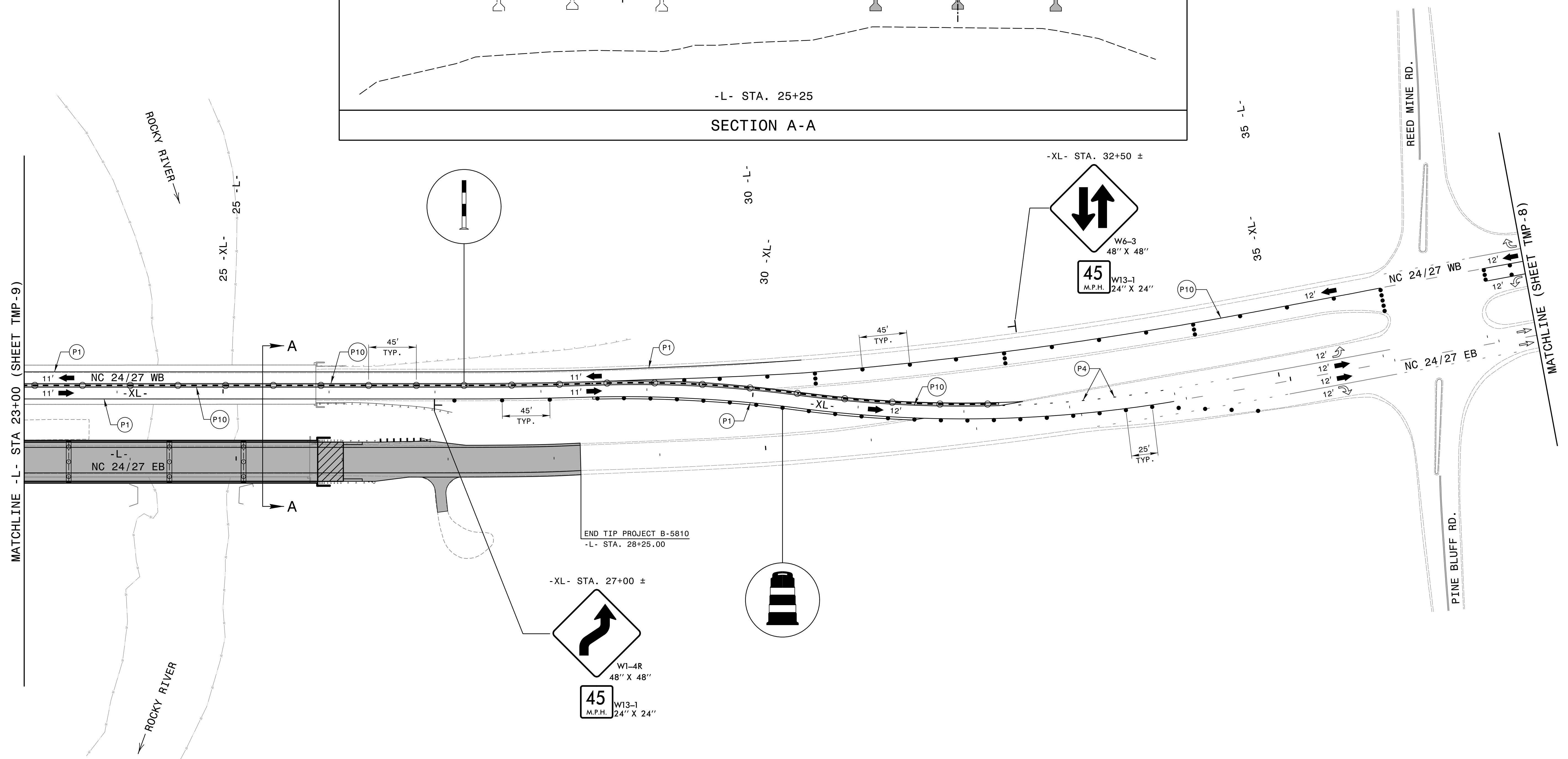
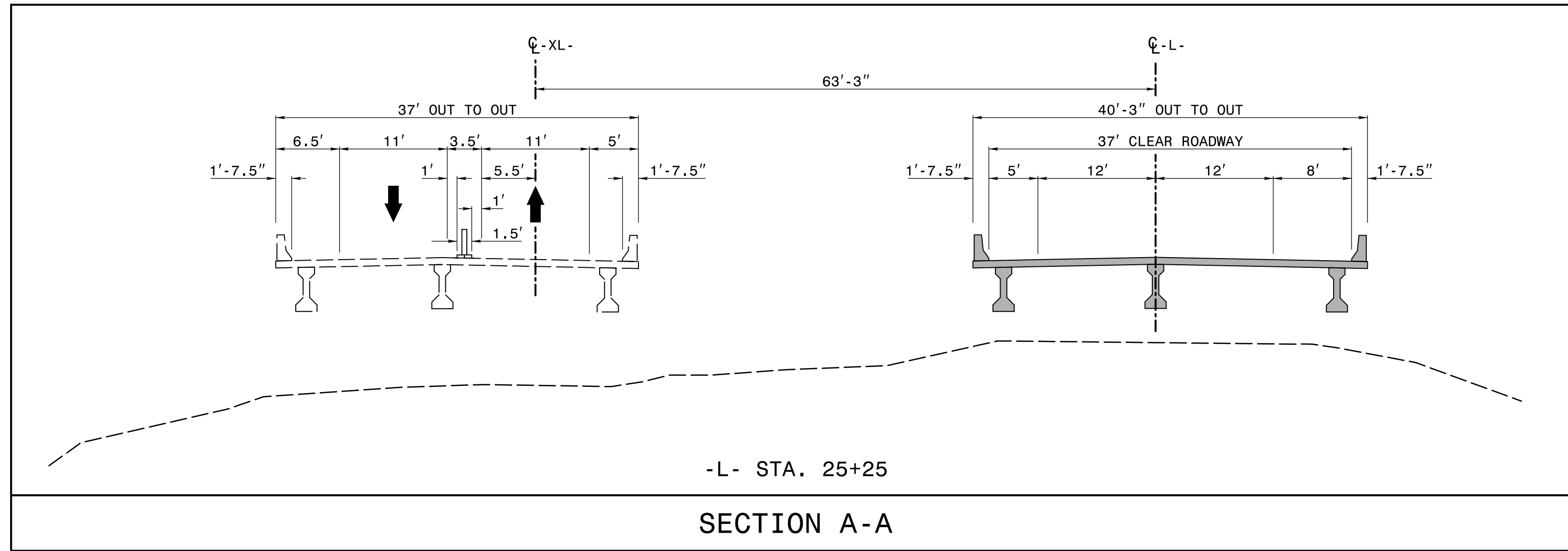


DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

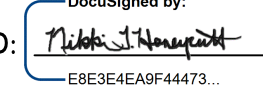
TEMPORARY TRAFFIC CONTROL  
PHASE III DETAIL

3/4/2022 R:\TrafficControl\top\shp\B5810\_rdy\_tmp-09.dgn Moor-EDS

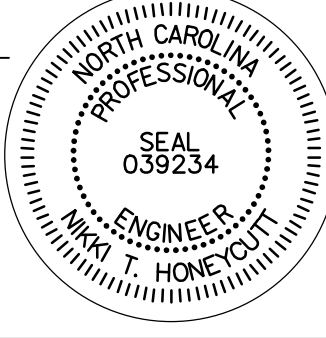
MATCHLINE -L- STA 23+00 (SHEET TMP-10)



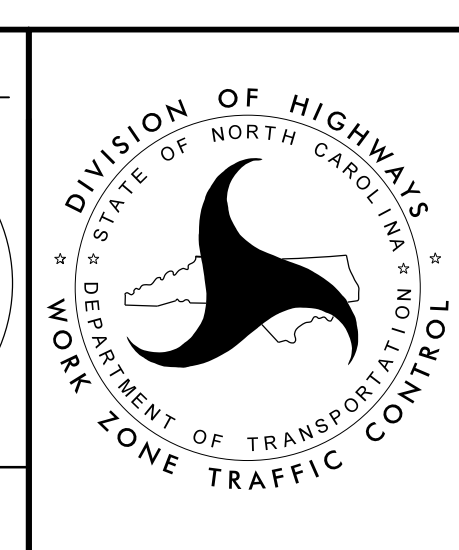
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 DATE: 3/4/2022

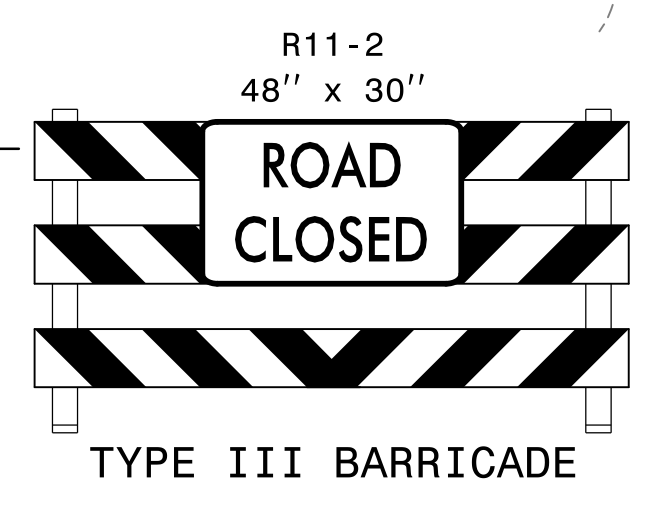
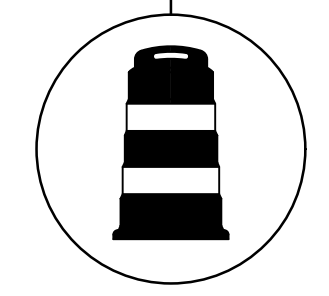
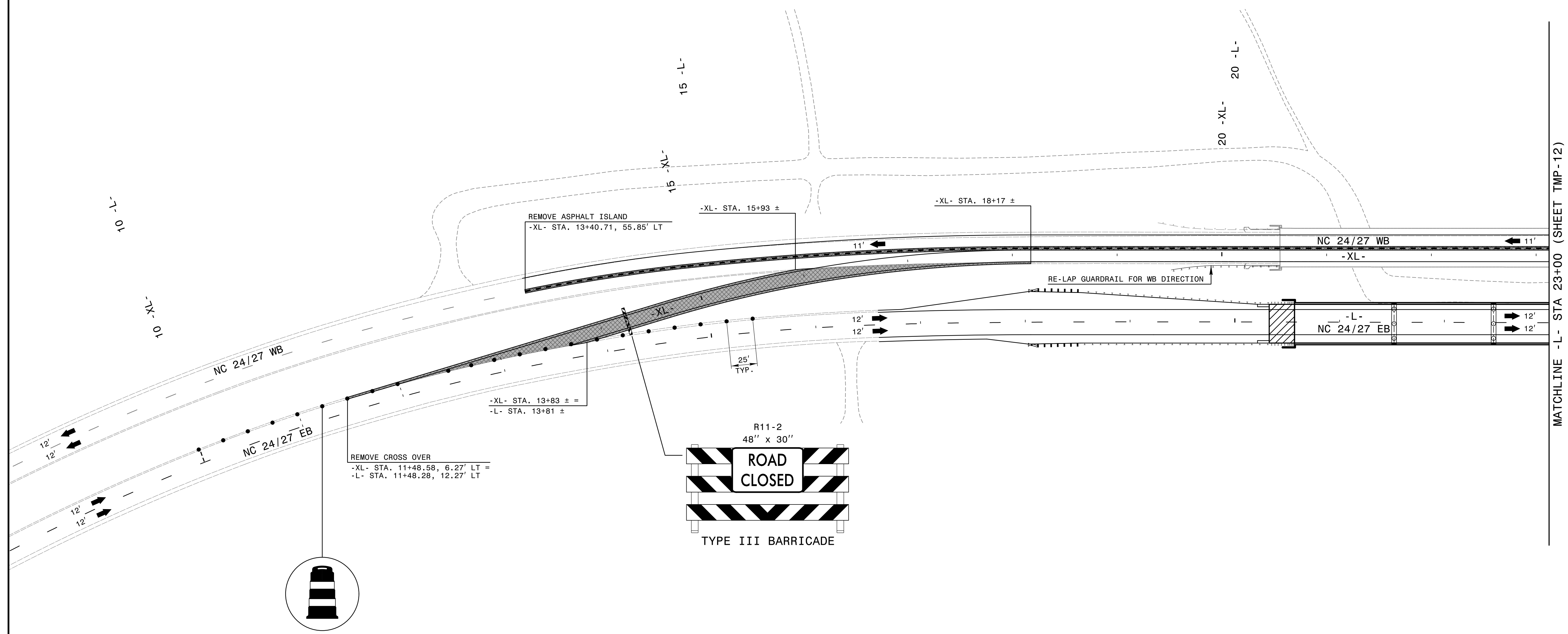
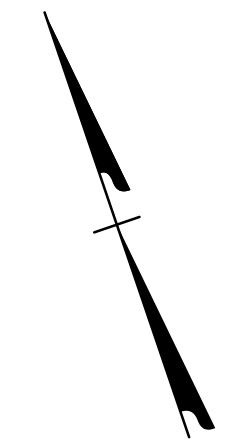
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**TEMPORARY TRAFFIC CONTROL  
PHASE III DETAIL**

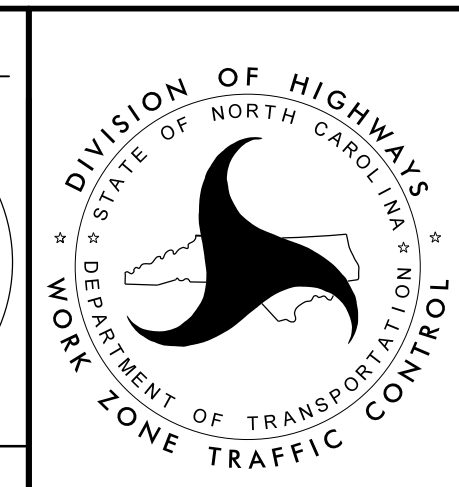
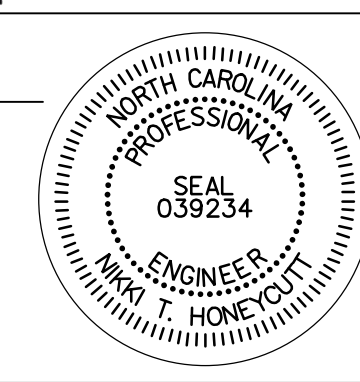


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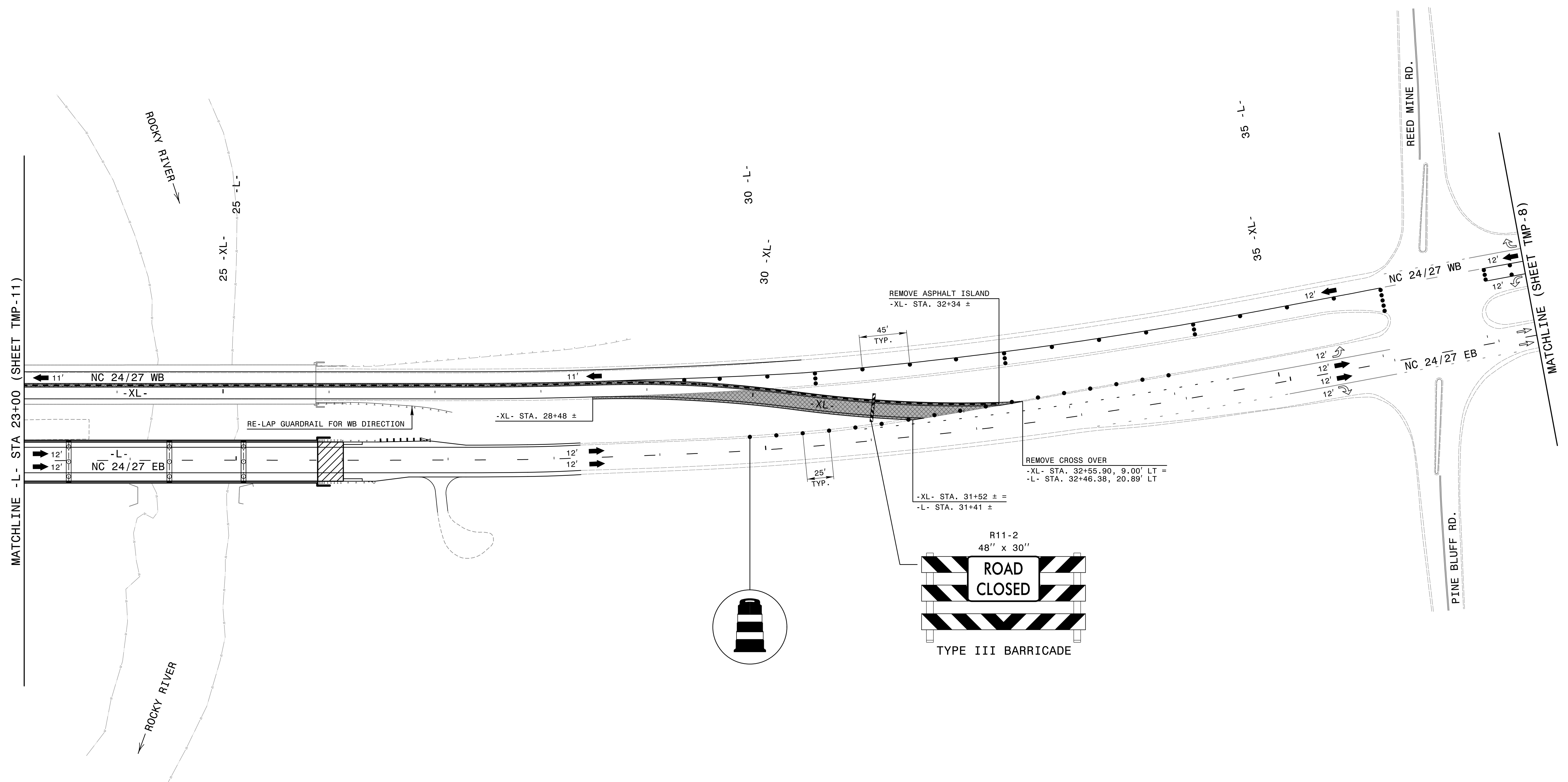
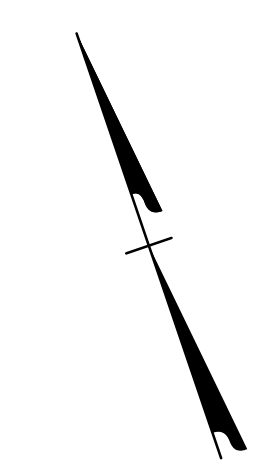
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 DATE: 3/4/2022

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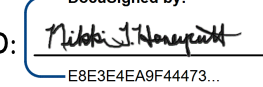
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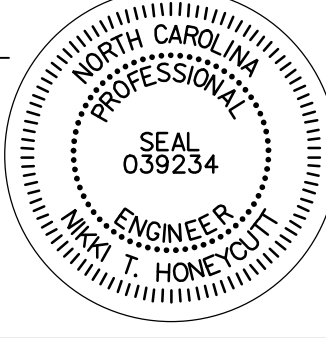
TEMPORARY TRAFFIC CONTROL  
 PHASE IV DETAIL



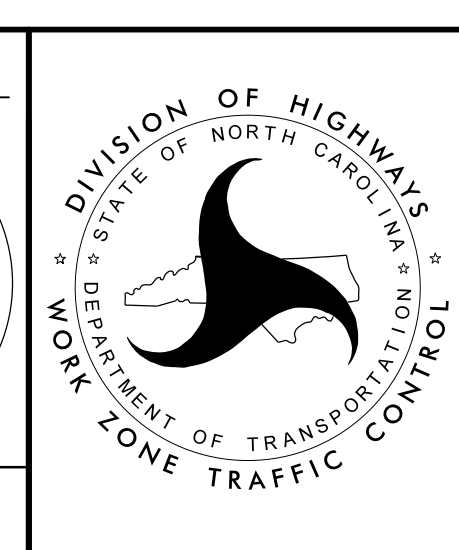
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 Moor-EDS

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TEMPORARY TRAFFIC CONTROL  
 PHASE IV DETAIL