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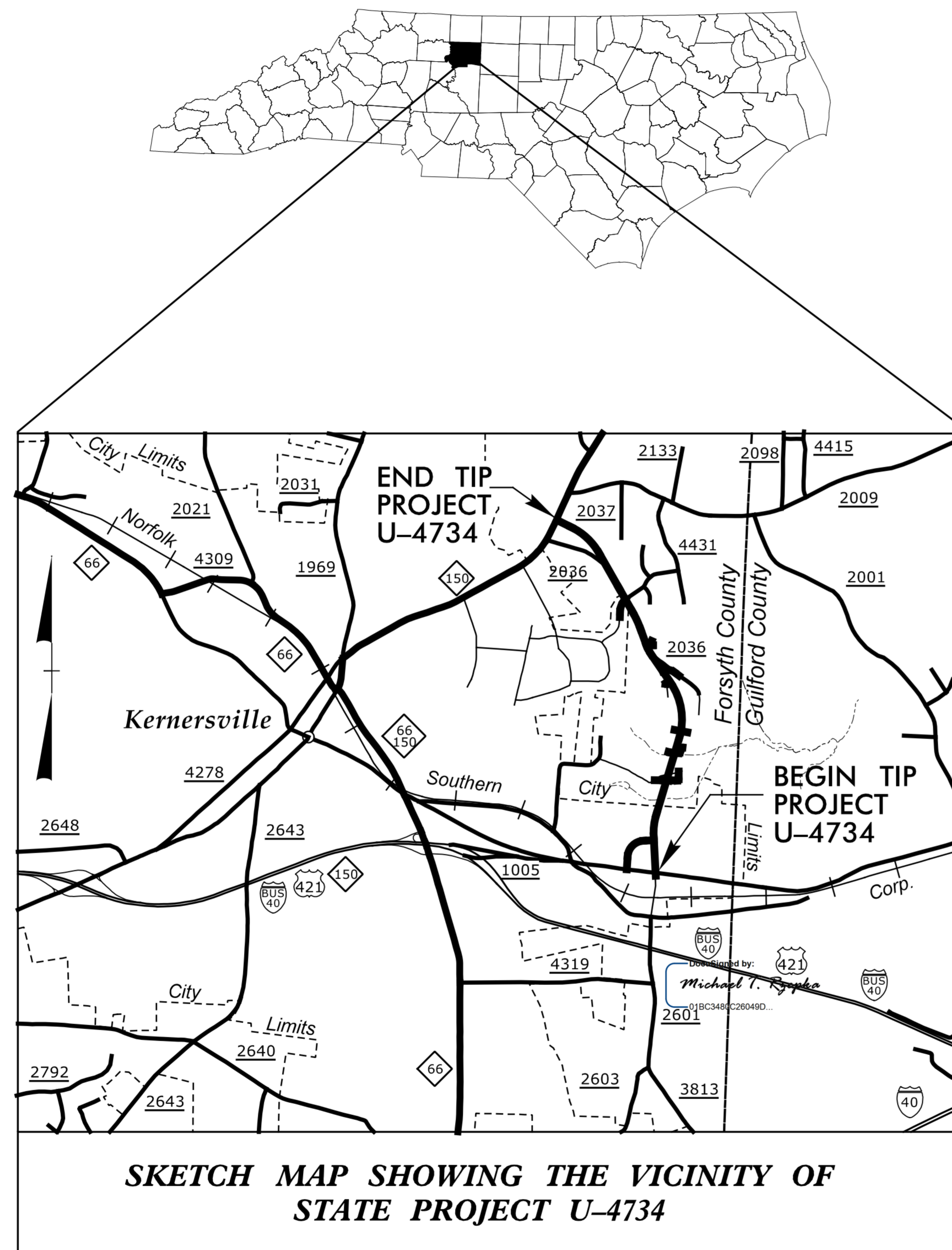
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

FORSYTH COUNTY



SKETCH MAP SHOWING THE VICINITY OF
STATE PROJECT U-4734

**LOCATION: KERNERSVILLE - SR 2601 (MACY GROVE RD) EXTENSION
FROM NORTH OF SR 1005 (EAST MOUNTAIN ST) TO NC 150
(NORTH MAIN ST)**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURES

INDEX OF SHEETS

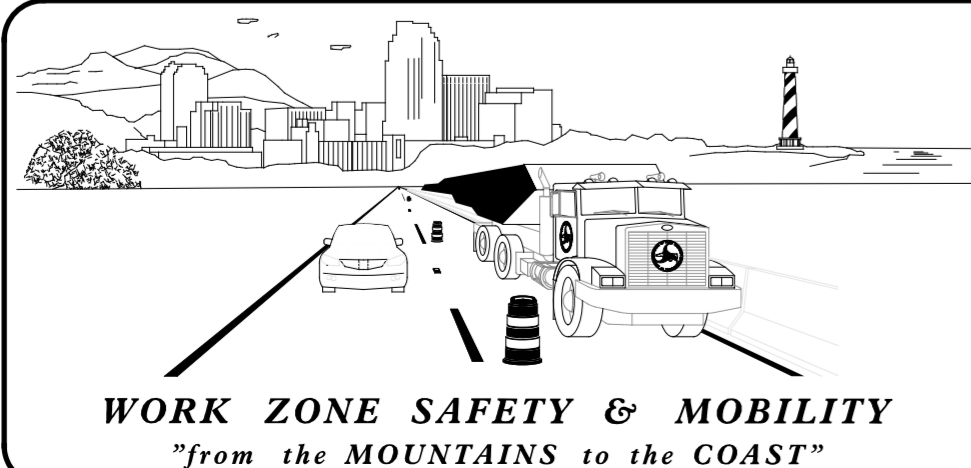
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	TRANSPORTATION OPERATIONS PLAN: MANAGEMENT STRATEGY, GENERAL NOTES, LOCAL NOTES
TMP-2A	DETOUR FOR COUNTY LINE ROAD CLOSURE
TMP-2B	DETOUR FOR MACY GROVE ROAD CLOSURE
TMP-3	PHASING
TMP-4 THRU 11	PHASE I, STEP 2 DETAILS
TMP-12	PHASE I, STEP 3 DETAIL
TMP-13 THRU 17	PHASE II DETAILS
TMP-18 THRU 24	PHASE III DETAILS

SHEET NO.
TMP-1

U-4734

TIP PROJECT:

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PLANS PREPARED BY:

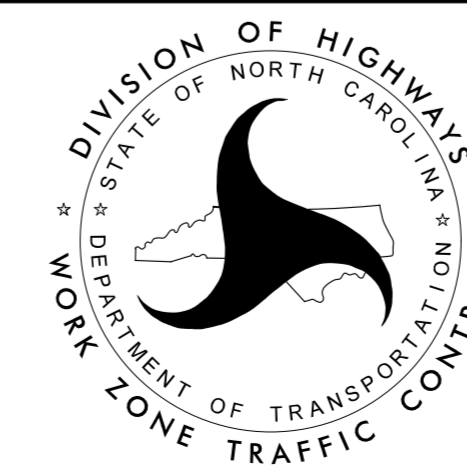
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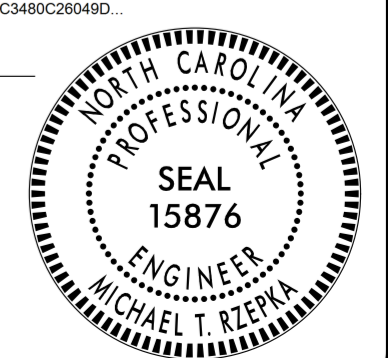
PROJECT DESIGN ENGINEER



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APPROVED: *Michael T. Rzepka*
DATE: 4/2/2018

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 2018 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
1101.03	TEMPORARY ROAD 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
1150.01	FLAGGERS
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

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
- CONTINUING CONSTRUCTION
- WEDGING/RESURFACING

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

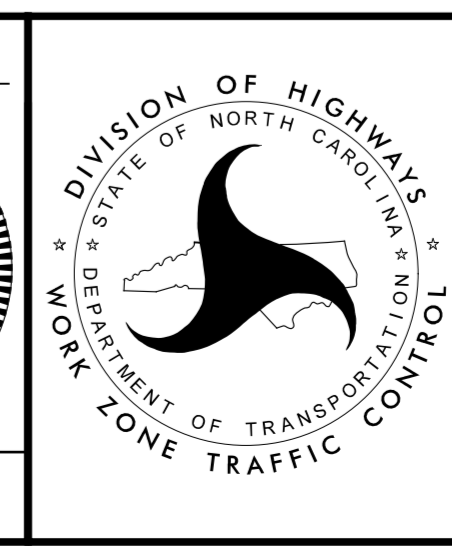
TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
<u>PAINT (4")</u>	
P8	2 FT.-6 FT./SP WHITE MINISKIP
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PD	3 FT.-9 FT./SP WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PI	DOUBLE YELLOW CENTERLINE
<u>PAINT (8")</u>	
P0	WHITE DIAGONAL
PP	YELLOW DIAGONAL
<u>PAINT (24")</u>	
P2	WHITE STOP BAR
<u>PAVEMENT MARKING SYMBOLS</u>	
QA	LEFT-TURN ARROW
QB	RIGHT-TURN ARROW
<u>TEMPORARY RAISED MARKERS</u>	
MH	YELLOW & YELLOW
MI	CRYSTAL & RED

APPROVED:
 DATE: 4/2/2018

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ROADWAY STANDARD DRAWINGS,
 LEGEND & TEMPORARY
 PAVEMENT MARKING
 SCHEDULE

4/2/2018
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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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
MACY GROVE RD NC 150 US 421	MONDAY-FRIDAY, 7:00AM - 9:00AM 4:00PM - 6:00PM

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

ROAD NAME

MACY GROVE RD
NC 150
US 421

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00AM DECEMBER 31st TO 6:00PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00PM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00AM THURSDAY AND 6:00PM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00AM FRIDAY TO 6:00PM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00AM THE DAY BEFORE INDEPENDENCE DAY AND 6:00PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00PM THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00AM FRIDAY AND 6:00PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00AM TUESDAY TO 6:00PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 421	MONDAY THRU SUNDAY 6:00AM TO 12:00AM	30 MINUTES OVERHEAD SIGN REMOVAL/ INSTALLATION

D) 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

- E) 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.
- F) 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.

G) 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.

H) 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.

I) 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.

J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON SR 2036 (SMITH EDWARDS RD).

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) 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.

L) 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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

N) 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.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

P) 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.

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

R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

S) 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 RADIUS, 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.

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



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PROJ. REFERENCE NO.	SHEET NO.
U-4734	TMP-2

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
MACY GROVE RD (EXTENSION) NC 150 (MAIN ST) SR 2036 (SMITH EDWARDS RD)	PAINT	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.

Y) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE MONOLITHIC ISLANDS.

MISCELLANEOUS

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

AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

MANAGEMENT STRATEGY

THE FOLLOWING LISTED STRATEGIES DERIVE FROM DETAILED DESIGN LEVEL ASSESSMENTS OF THE WORK ZONE IMPACTS CONDUCTED DURING THE DEVELOPMENTAL STAGES OF THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED MANAGEMENT STRATEGIES RELATIVE TO THIS TMP ARE AS FOLLOWS:

MACY GROVE ROAD (ALONG SMITH EDWARDS ROAD)

DAILY LANE CLOSURES AND TEMPORARY WIDENING OF EXISTING WILL BE USED TO BUILD THE SOUTHBOUND LANES OF -L-. TRAFFIC WILL SWITCHED TO SOUTHBOUND LANES TO COMPLETE NORTHBOUND LANES

MACY GROVE ROAD AT -Y7-

TRAFFIC WILL SHIFTED ON THE EXISTING PAVEMENT TO CONSTRUCT THE NEW INTERSECTION WIDENING AT EDGE AND ELEVATION. INTERSECTION WILL BE CLOSED TO COMPLETE TIE WORK IN ONE WEEKEND.

NC 150 & COUNTY LINE ROAD

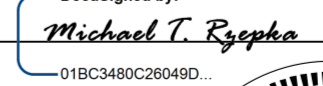
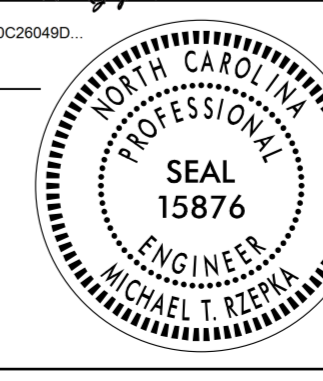
DAILY LANE CLOSURES WILL BE USED TO CONSTRUCT WIDENING ON NC 150 AND COUNTY LINE ROAD. COUNTY LINE ROAD WILL BE CLOSED TO REBUILD EXISTING PAVEMENT IN ONE WEEKEND.

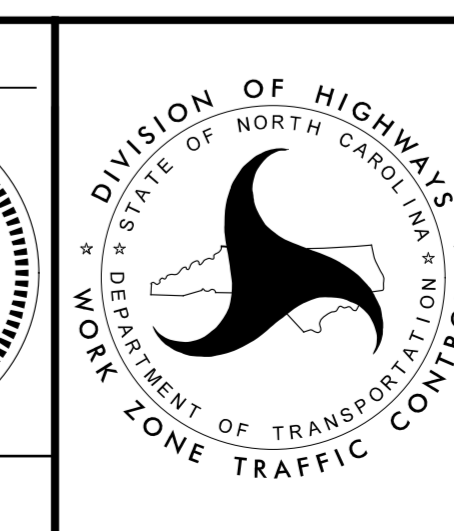
US 421

LONG-TERM LANE CLOSURES OF THE MEDIAN LANES WILL BE USED TO CONSTRUCT THE MEDIAN OVERHEAD SIGN SUPPORT. LANE CLOSURES AND TRAFFIC STOPPAGES WILL BE USED TO HANG OVERHEAD SIGNS.

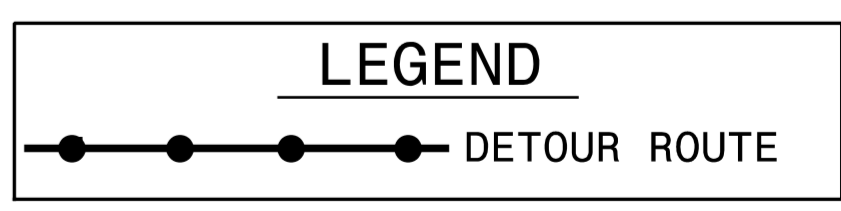
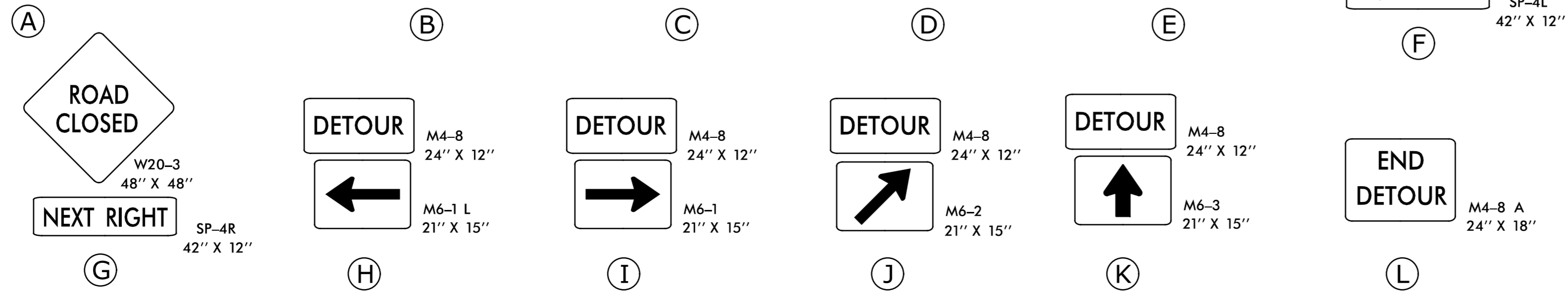
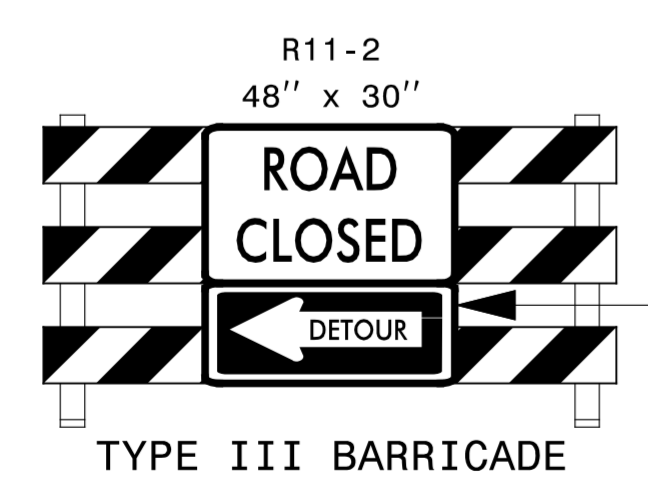
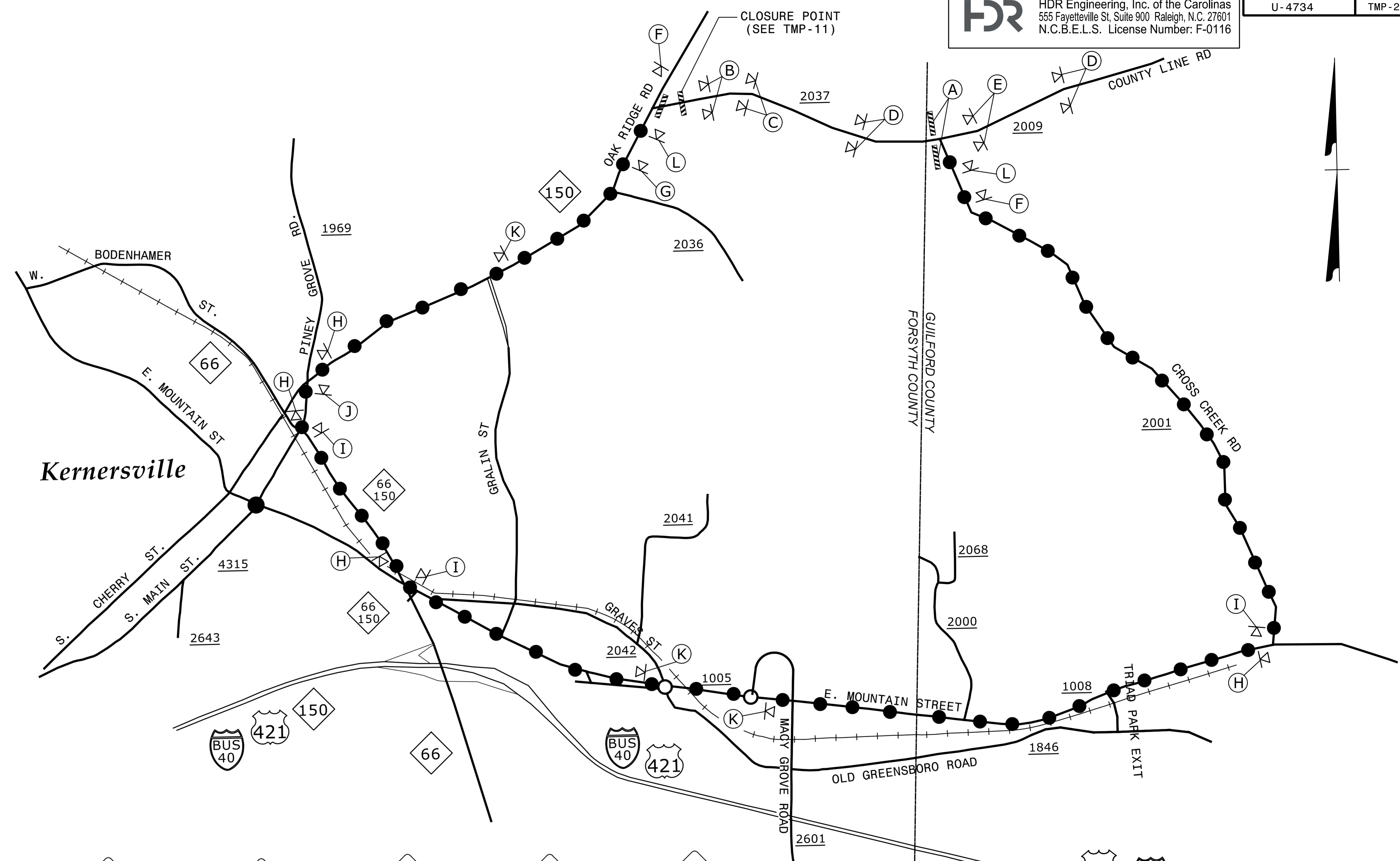
LOCAL NOTES

1) AT THE DIRECTION OF THE ENGINEER, PORTABLE CONCRETE BARRIER MAY BE INSTALLED IN CONJUNCTION WITH THE MEDIAN LANE CLOSURES ON US 421.

APPROVED: 
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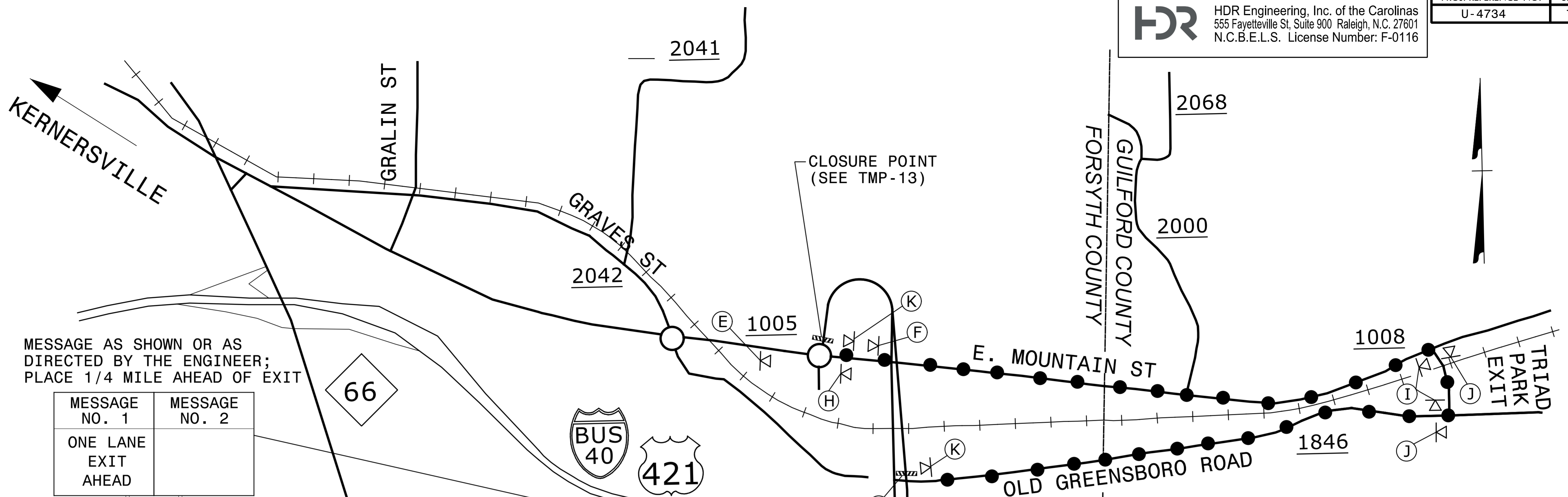


TRANSPORTATION
OPERATIONS
PLAN



APPROVED: <i>Michael T. Repka</i> DATE: 4/2/2018 SEAL			<p align="center">DETOUR FOR COUNTY LINE ROAD</p>
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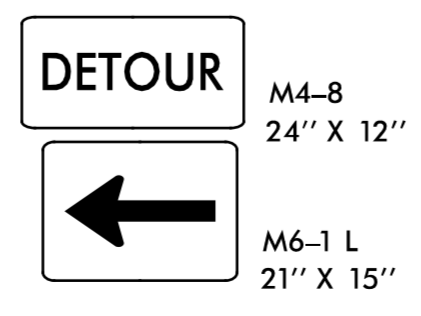
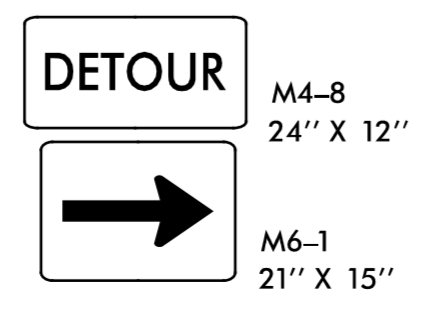
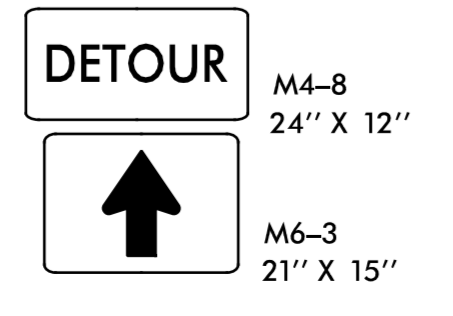
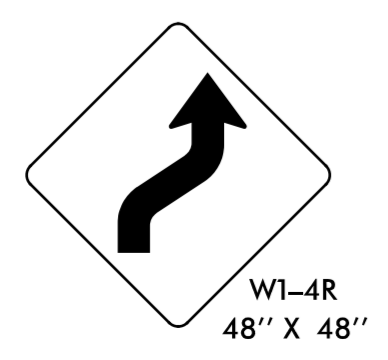
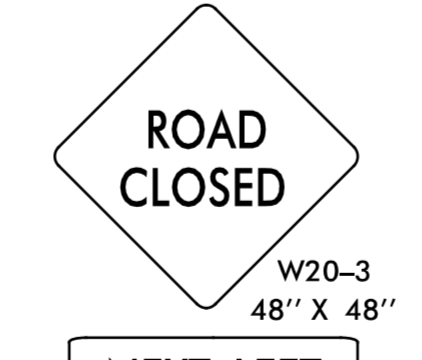
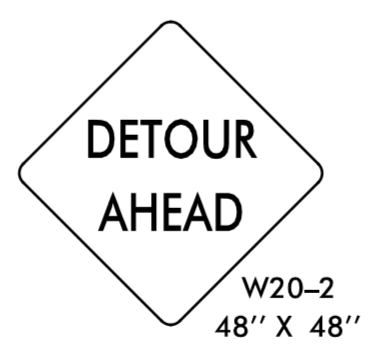
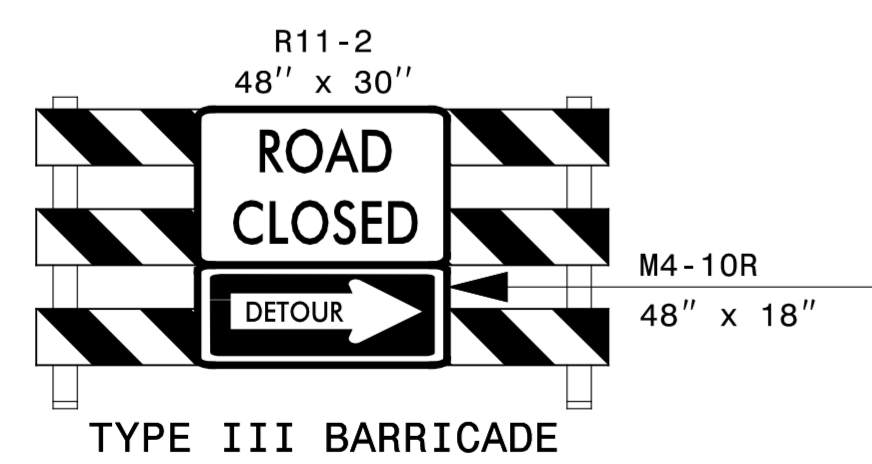


MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER; PLACE 1/4 MILE AHEAD OF EXIT

MESSAGE NO. 1	MESSAGE NO. 2
ONE LANE EXIT AHEAD	

CHANGEABLE MESSAGE SIGN

SB US 421 OVERHEAD SIGN COVER ARROW DURING ROAD CLOSURE



APPROVED: *Michael T. Rzepka*

DATE: 4/2/2018

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DETOUR FOR MACY GROVE ROAD

4/2/2018 M:\TrafficControl\TCP\4734_tmp_detour_2b.dgn
 ICA Engineering

PHASING

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N.C.B.E.L.S. License Number: F-0116

PROJ. REFERENCE NO.	SHEET NO.
U-4734	TMP-3

PHASE I

NOTE: ALL ASPHALT CONSTRUCTION IS UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE IN PHASE I THROUGH PHASE III, STEP 2.

STEP 1

INSTALL ALL WORK ZONE ADVANCE WARNING SIGNS ON MACY GROVE RD., NC 150 (MAIN ST.), SR 2036 (SMITH EDWARDS RD.), SR 2037 (COUNTY LINE RD.), HUNTINGTON RUN LN., AND HOLLOW CREEK RD. USING RSD 1101.02 (SHEET 3 OF 3).

STEP 2

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING, INCLUDING PROPOSED BRIDGE (STA 38+00±) AND CULVERT (STA 28+00±) (SEE SHEETS TMP-4 THRU 10):

-L- STA 19+00± TO -L- STA 61+50±
-L- STA 74+00± TO -L- STA 85+00±, LEFT

-L- STA 89+00± TO -L- STA 102+00±

-Y8- STA 10+60± TO -Y8- STA 12+40±

-Y9- FROM -L- TO -Y9- STA 11+75±

USING RSD 1101.02 (SHEET 1 OF 14), BEGIN CONSTRUCTION OF PROPOSED WIDENING OF EXISTING PAVEMENT AT THE FOLLOWING LOCATIONS (SEE SHEETS TMP-4 AND 11):

-L- STA 11+75± TO -L- STA 19+00±, RIGHT
-Y7- STA 18+00± TO -L-, LEFT
-Y14- FROM -Y13- TO -Y14- STA 14+03±, LEFT & RIGHT

USING RSD 1101.02 (SHEET 1 OF 14), BEGIN CONSTRUCTION OF PROPOSED WIDENING AT THE FOLLOWING LOCATIONS. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN CROSS-SLOPE (SEE SHEETS TMP-6, 8 THRU 11):

-L- STA 83+50± TO -L- STA 89+00±, RIGHT
-Y9- STA 11+75± TO STA 13+00±, RIGHT
-Y10- STA 13+00± TO -Y10- STA 13+90±, LEFT & RIGHT
-Y13- STA 12+00± TO -Y13- STA 28+23±, LEFT & RIGHT

USING RSD 1101.02 (SHEET 1 OF 14), CONSTRUCT TEMPORARY WIDENING OF EXISTING SR 2036 (SMITH EDWARDS RD.) FROM -L- STA 62+00± TO -L- STA 73+88± (SEE SHEETS TMP-7 & 8).

INSTALL AND COVER DETOUR SIGNING FOR PHASE I, STEP 4 ROAD CLOSURE (SEE SHEETS TMP-2A & 2B).

STEP 3

USING RSD 1101.02 (SHEET 1 OF 14), PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AND SHIFT TRAFFIC ONTO TEMPORARY WIDENING. AWAY FROM TRAFFIC, CONSTRUCT PROPOSED -L- FROM -L- STA 61+50± TO -L- STA 74+00±, LEFT (SEE SHEET TMP-12).

COMPLETE CONSTRUCTION AT THE FOLLOWING LOCATIONS BEGUN IN PHASE I, STEP 2:

-L- STA 89+00± TO -L- STA 102+00±, RIGHT LANES (NORTHBOUND)
-L- STA 83+50± TO -L- STA 89+00±, WIDENING RIGHT
-Y13- STA 12+00± TO -Y13- STA 28+23±, WIDENING LEFT & RIGHT

WORK IN PHASE I, STEP 4 MAY OCCUR CONCURRENTLY WITH PHASE I, STEP 3 WORK.

COMPLETE THE FOLLOWING WORK IN PHASE I, STEP 4 BEGINNING FRIDAY AT 6:00 PM AND ENDING ON THE FOLLOWING MONDAY AT 7:00 AM (61 HOURS).

STEP 4

A) USING RSD 1101.03 (SHEET 1 OF 9), UNCOVER DETOUR SIGNING AND CLOSE SR 2037 (COUNTY LINE RD.) AT NC 150 (MAIN ST.) (SEE SHEET TMP-2A).

B) AWAY FROM TRAFFIC, PERFORM THE FOLLOWING (SEE SHEET TMP-11):

- RECONSTRUCT -Y14- FROM -Y13- TO -Y14- STA 11+50±.
- COMPLETE -Y14- WIDENING FROM -Y13- TO -Y14- STA 14+03±, LEFT & RIGHT, BEGUN IN PHASE I, STEP 2
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y14- (SEE SHEET TMP-14 FOR MARKING LAYOUT AND TRAFFIC PATTERN)

C) OPEN SR 2037 (COUNTY LINE RD.) AT NC 150 (MAIN ST.) TO TRAFFIC AND REMOVE DETOUR SIGNING.

PHASE II

STEP 1

USING RSD 1101.02 (SHEET 1 OF 14), COMPLETE THE FOLLOWING (SEE SHEETS TMP-14 THRU 17) :

- WEDGE TIE FROM EXISTING SMITH EDWARDS RD. TO -L- (RIGHT LANES) FROM -L- STA 83+66± TO -L- STA 86+50±
- INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AND TIE TO EXISTING ON -L- & -Y13-
- SHIFT TRAFFIC INTO A 2-LANE/2-WAY PATTERN ON -L- FROM -L- STA 83+66± TO -Y13- (NC 150), AND TEMPORARY PATTERN ON -Y13-

STEP 2

AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING (SEE SHEETS TMP-14 & 15):

-L- STA 85+00± TO -L- STA 89+00±, LEFT
-Y12- STA 12+15± TO -Y12- STA 13+27± (CUL-DE-SAC)

INSTALL AND COVER DETOUR SIGNING FOR PHASE II, STEP 3 ROAD CLOSURE.

COMPLETE THE FOLLOWING BEGUN IN PHASE I:

-L- STA 11+75± TO -L- STA 19+00±, WIDENING RIGHT
-L- STA 58+50± TO -L- STA 60+00±, RIGHT
-L- STA 58+50± TO -L- STA 85+00±, LEFT
-L- STA 89+00± TO -L- STA 102+00±, LEFT
-Y7- STA 18+00± TO -L-, WIDENING LEFT
-Y9- FROM -L- TO -Y9- STA 13+00±
-Y10- STA 13+00± TO -Y10- STA 13+90±, LEFT & RIGHT

WORK IN PHASE II, STEP 3 MAY OCCUR CONCURRENTLY WITH PHASE II, STEP 1 AND STEP 2 WORK.

COMPLETE THE FOLLOWING WORK IN PHASE II, STEP 3 BEGINNING FRIDAY AT 6:00 PM AND ENDING ON THE FOLLOWING MONDAY AT 7:00 AM (61 HOURS).

STEP 3

A) USING RSD 1101.03 (SHEET 1 OF 9), UNCOVER DETOUR SIGNING AND CLOSE MACY GROVE RD. FROM INTERCHANGE OFF-RAMP AT 40BUS. TO EAST MOUNTAIN RD. (SEE SHEETS TMP-2B).

B) AWAY FROM TRAFFIC, PERFORM THE FOLLOWING (SEE SHEET TMP-13):

- REMOVE EXISTING MEDIAN BARRIER ON -L- & -Y7-
- WEDGE EXISTING MACY GROVE RD. AND TIE TO PROPOSED WIDENING BEGUN IN PHASE I
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- AND -Y7- (SEE SHEET TMP-18 FOR MARKING LAYOUT AND TRAFFIC PATTERN)

C) OPEN MACY GROVE RD. (-L-) AND -Y7- TO TRAFFIC AND REMOVE DETOUR SIGNING.

PHASE III

STEP 1

USING RSD 1101.02 (SHEET 1 OF 14), COMPLETE THE FOLLOWING (SEE SHEETS TMP-19 THRU 24):

- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- FROM -L- STA 59+50± TO -Y13- (SOUTHBOUND LANES) AND ON -Y9- AND TIE TO EXISTING.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS TO OPEN RIGHT-TURN LANE AND EXTEND PAINTED ISLAND ON -Y13-.
- SHIFT TRAFFIC INTO A 2-LANE/2-WAY PATTERN FROM ON -L- FROM -L- STA 59+50± TO -Y13- (NC 150) IN SOUTHBOUND LANES AND ON -Y9-. OPEN RIGHT-TURN LANE ON -Y13-.

STEP 2

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 14), CONSTRUCT THE FOLLOWING (SEE SHEETS TMP-18 & 20 THRU 22):

-L- STA 11+75± TO -Y7- STA 18+00±, LEFT OF -L-/RIGHT OF -Y7-
-L- STA 11+75± TO -Y7- STA 13+00±, MEDIAN
-L- STA 61+50± TO -L- STA 87+15±, RIGHT
-Y11- FROM -L- TO -Y11- STA 11+30±, WEDGING AND WIDENING LEFT & RIGHT

COMPLETE REMAINING CONSTRUCTION BEGUN IN PHASE I.

INSTALL PROPOSED SIGNALS ON -L- AT -Y7- AND -Y13-, AND ON -Y13- AT -Y14- AND KEEP DEACTIVATED (SEE SIGNAL PLANS).

NOTES - INSTALL ALL WORK ZONE ADVANCE WARNING SIGNS USING RSD 1101.01 (SHEET 1 OF 3) ON US 421 PRIOR TO THE WORK PERFORMED IN PHASE III, STEPS 3 & 4.
- WORK IN PHASE III, STEP 3 MAY OCCUR CONCURRENTLY WITH PHASE III, STEP 1 AND STEP 2 WORK.

COMPLETE THE WORK IN PHASE III, STEP 3 IN 21 CONSECUTIVE CALENDAR DAYS

STEP 3

USING RSD 1101.02 (SHEET 4 OF 14), CLOSE MEDIAN LANE IN EACH DIRECTION OF US 421 AND CONSTRUCT MEDIAN SUPPORT FOR OVERHEAD SIGN ON NORTHBOUND US 421 AT EXIT TO MACY GROVE ROAD. REPLACE GUARDRAIL REMOVED DURING CONSTRUCTION (SEE LOCAL NOTE 1) (SEE SIGNING PLANS FOR LOCATION).

STEP 4

USE RSD 1101.02 (SHEET 4 OF 14) AND/OR RSD 1101.03 (SHEET 9 OF 9) AS NECESSARY AND COMPLETE INSTALLATION OF OVERHEAD SIGN STRUCTURE ON NORTHBOUND US 421 AT EXIT TO MACY GROVE ROAD.

STEP 5

USING RSD 1101.02 (SHEET 1 OF 14), PERFORM THE FOLLOWING:

- PLACE FINAL LAYER OF SURFACE COURSE ON -L- AND -Y- LINES
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS
- SHIFT TRAFFIC TO FINAL PATTERN ON -L- AND ALL -Y- LINES
- ACTIVATE PROPOSED SIGNALS ON -L- AT -Y7- AND -Y13-, AND ON -Y13- AT -Y14-

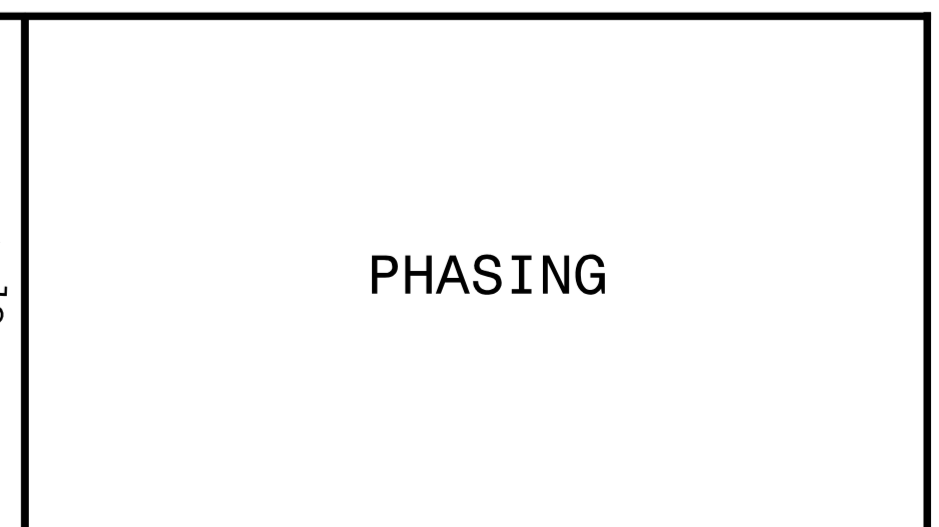
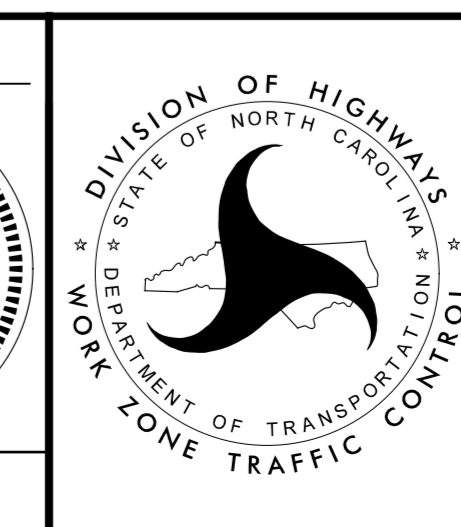
STEP 6

REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES.

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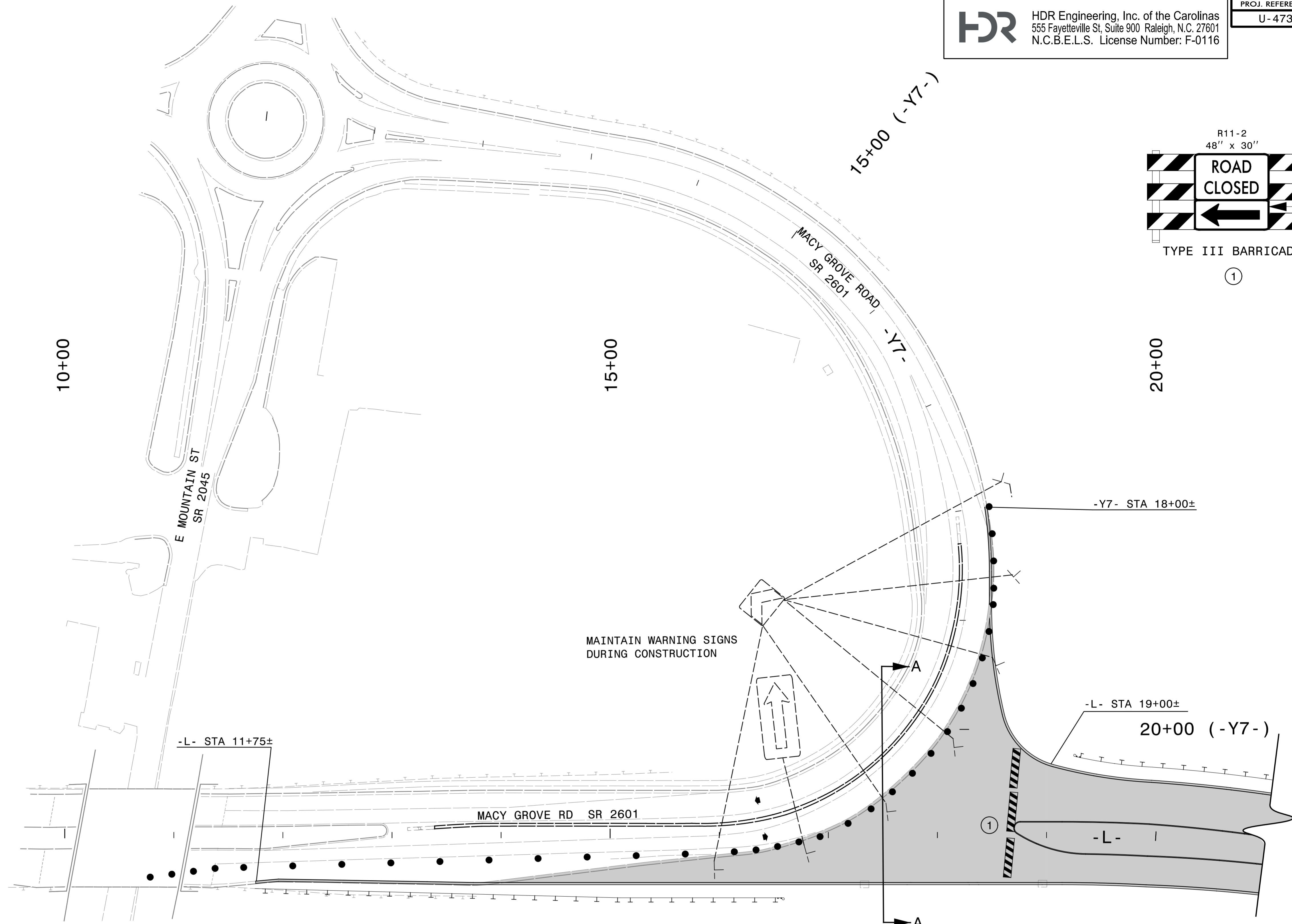
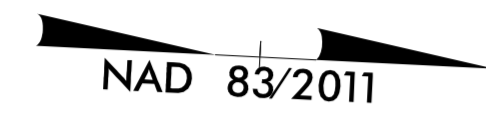


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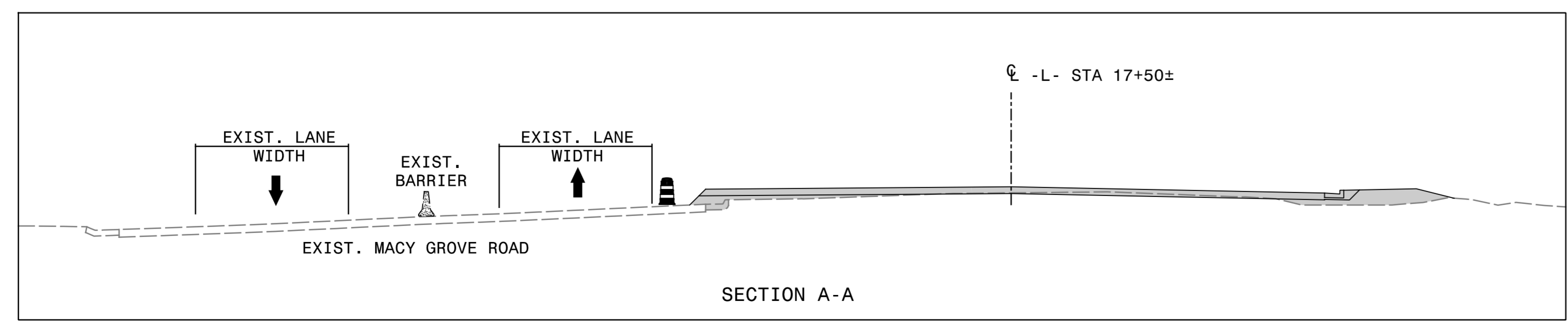
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U-4734	TMP-4



MAINTAIN WARNING SIGNS DURING CONSTRUCTION

MAINTAIN WARNING SIGNS DURING CONSTRUCTION



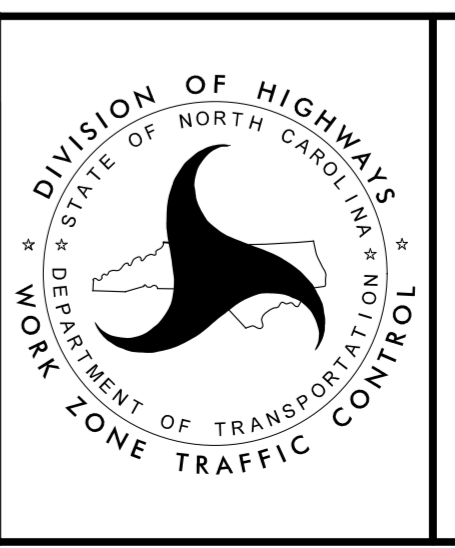
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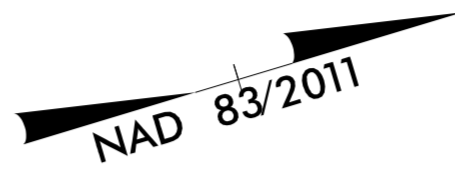
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DIVISION OF HIGHWAYS
 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

PHASE I, STEP 2 DETAIL

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35+00

40+00

45+00

MAINTAIN ACCESS
 ON EXISTING DRIVE
 UNTIL ACCESS CAN
 BE MAINTAINED
 USING PROPOSED
 DRIVE TIES

-Y8- STA 10+60±

-8X-

MATCHLINE -L- STA. 45+50
 SEE SHEET TMP-6

PROPOSED BRIDGE

MACY GROVE RD SR 2601

-Y8- STA 12+40±

GREENWAY

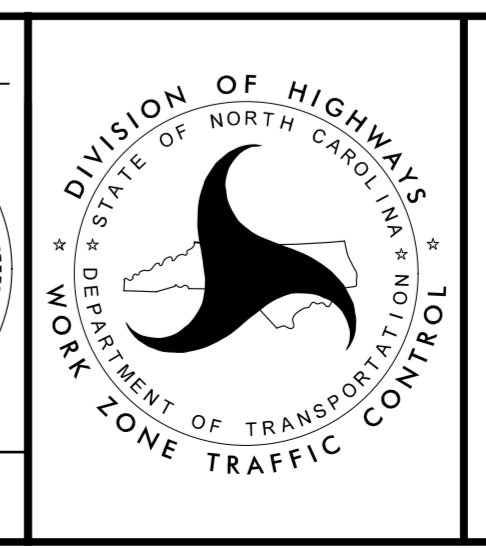
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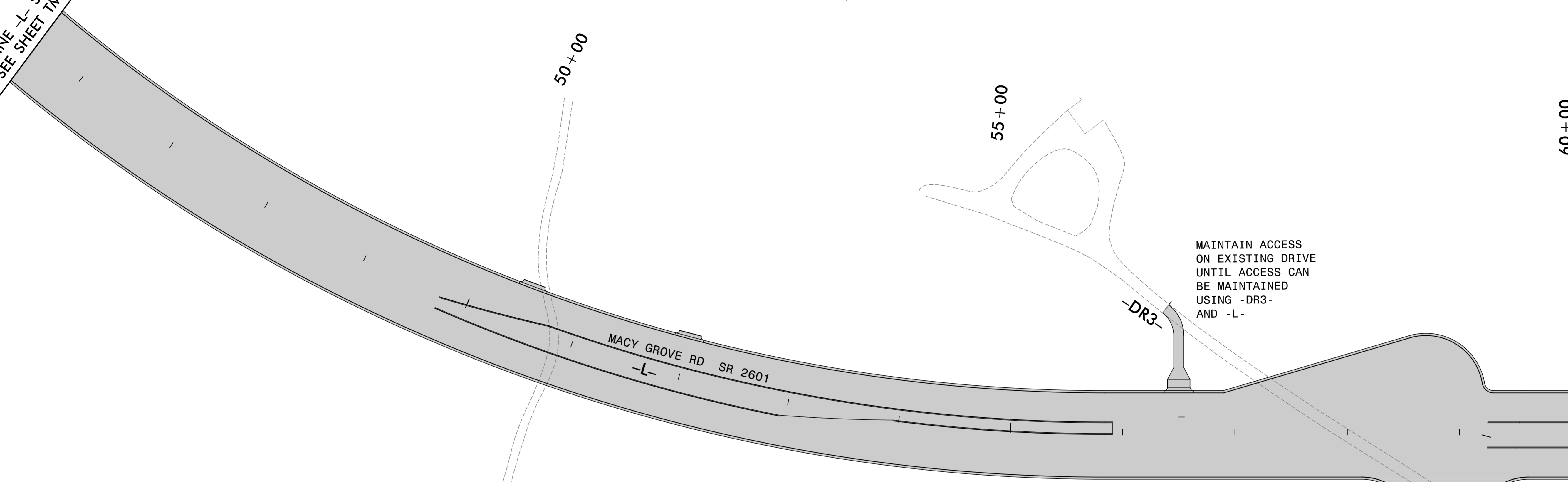


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U-4734	TMP-6

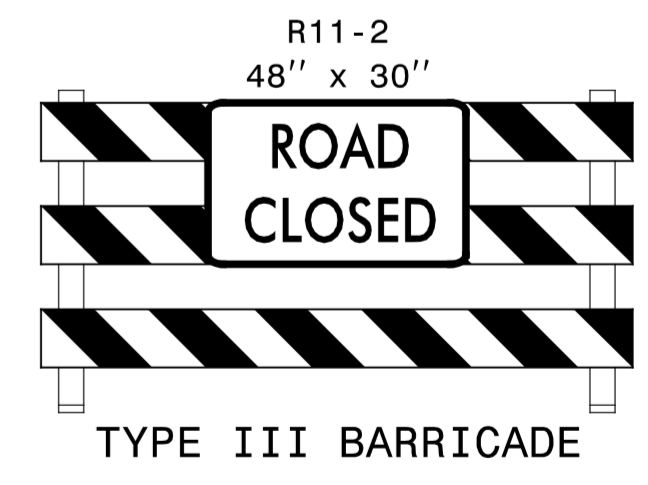


MATCHLINE -L- STA. 45+50
 SEE SHEET TMP-5



MAINTAIN ACCESS
 ON EXISTING DRIVE
 UNTIL ACCESS CAN
 BE MAINTAINED
 USING -DR3-
 AND -L-

MATCHLINE -L- STA. 60+00
 SEE SHEET TMP-7



①

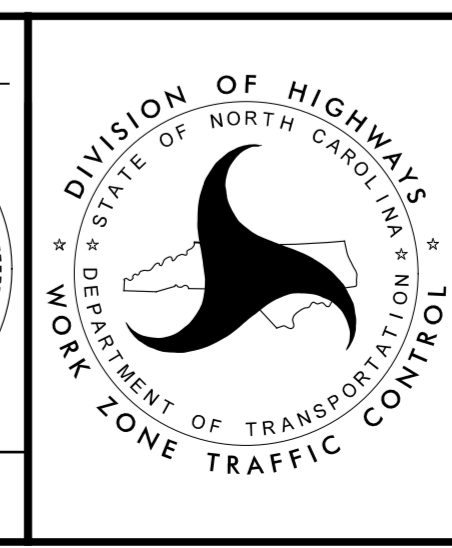
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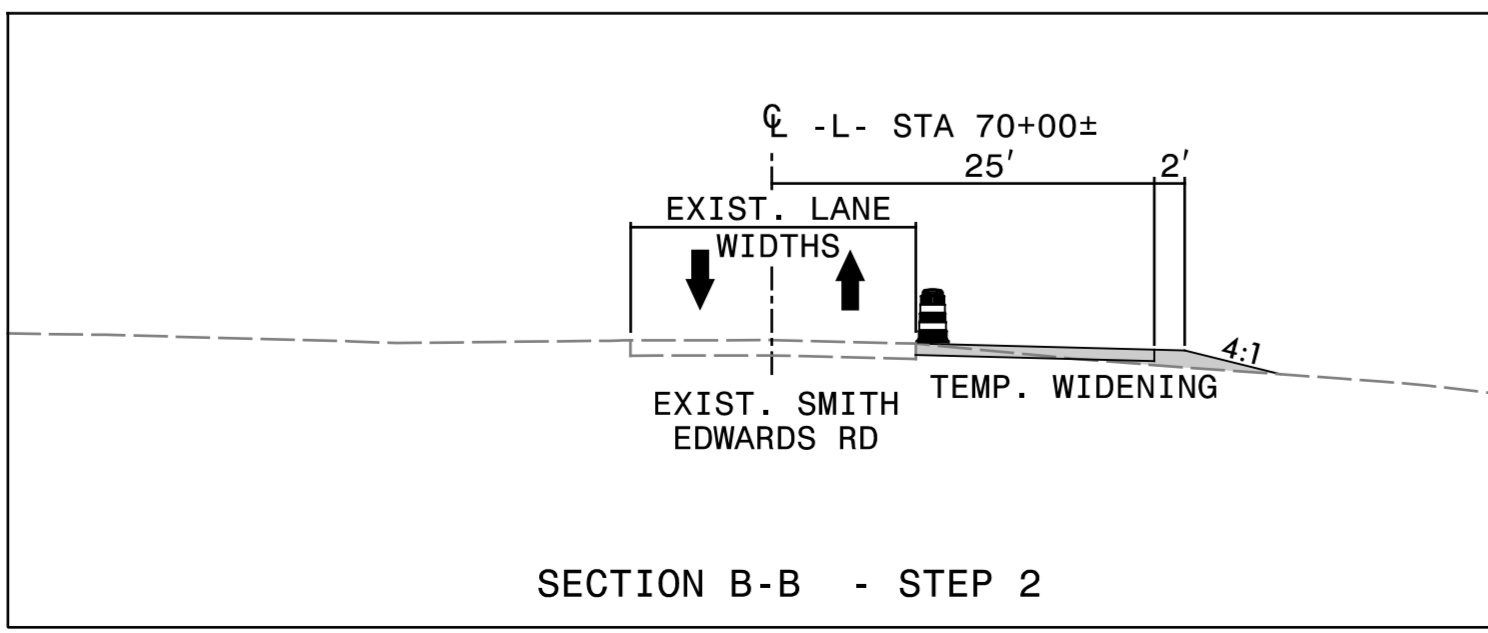
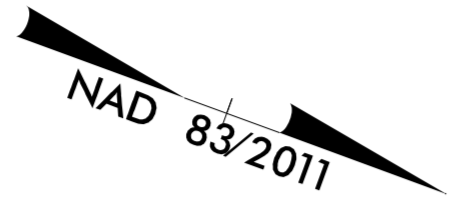
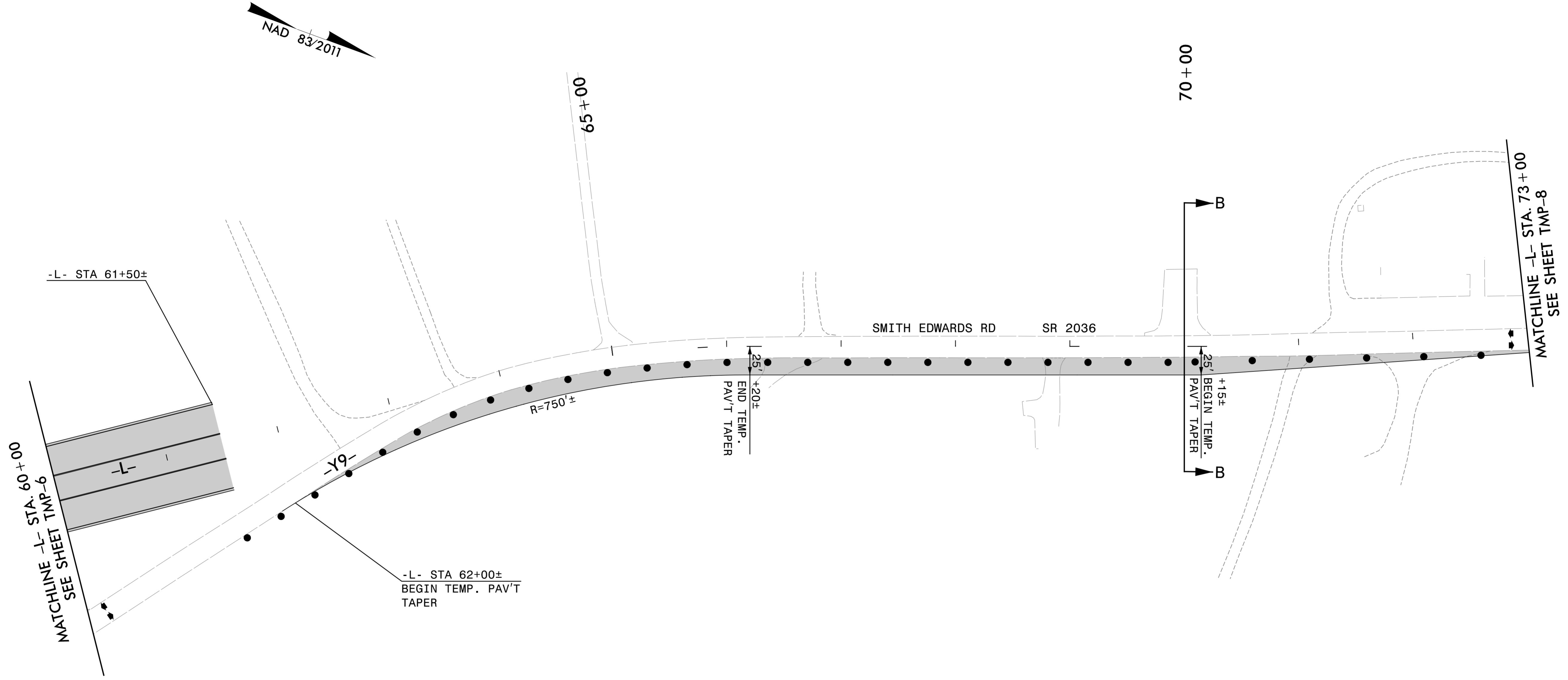


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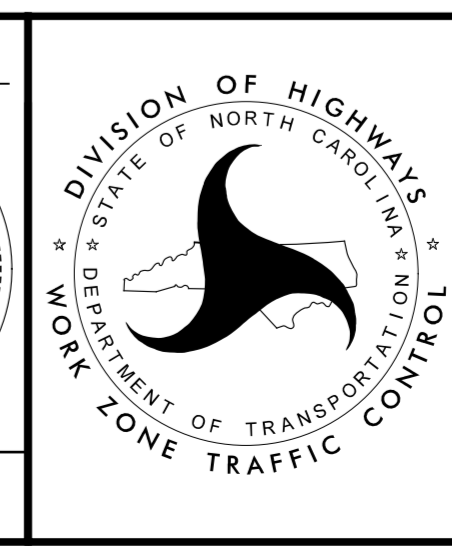


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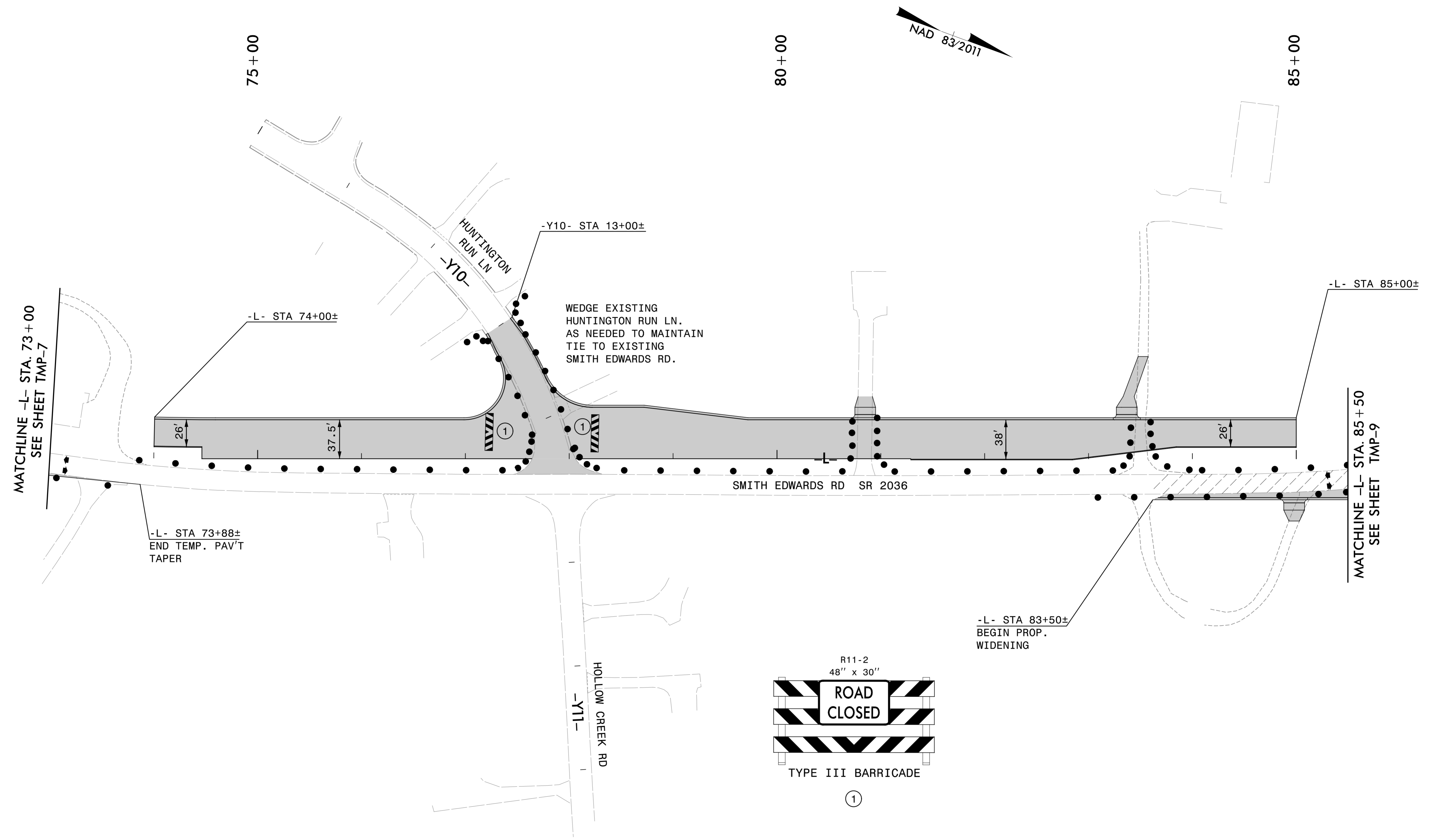


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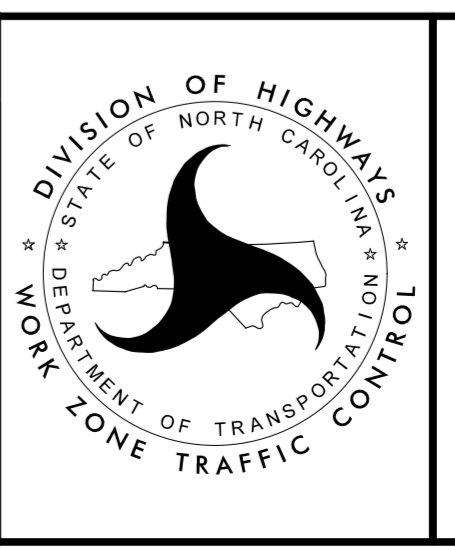
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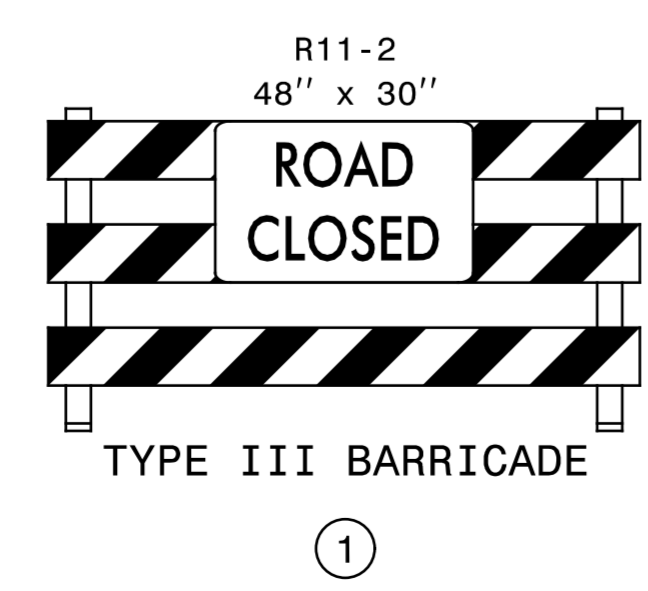
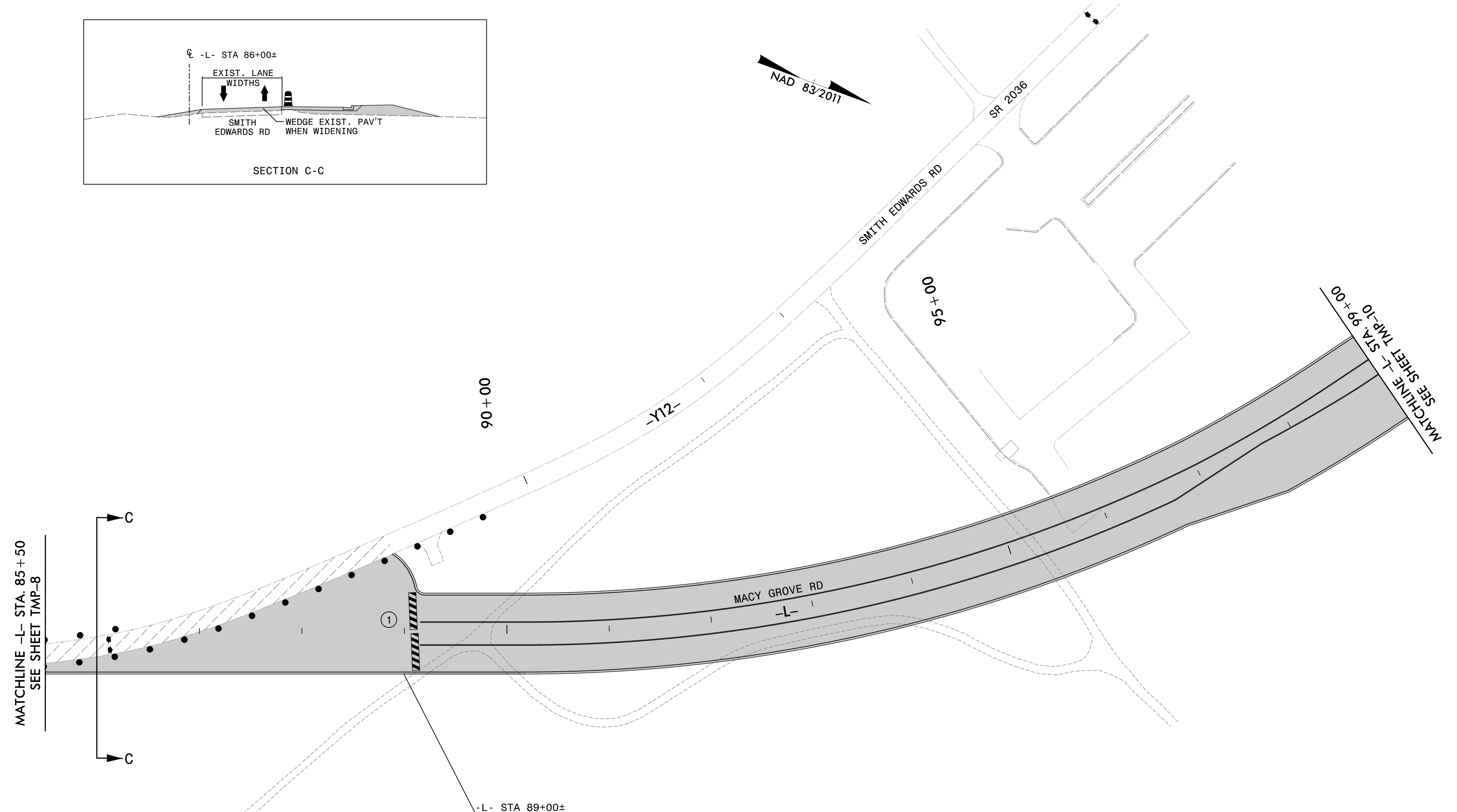
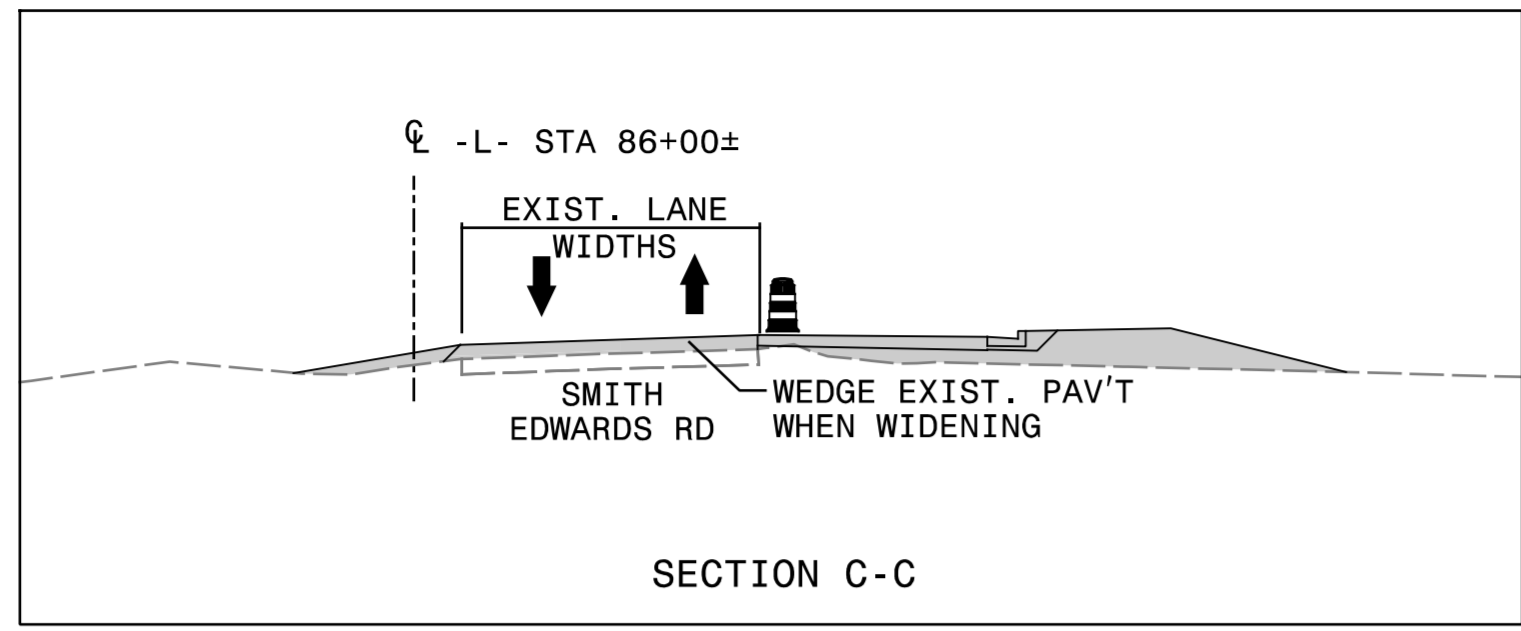
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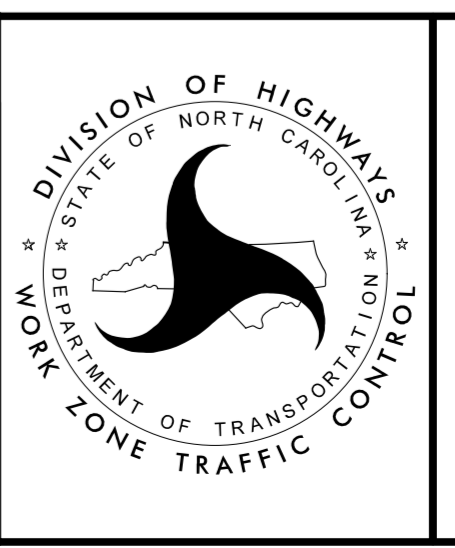
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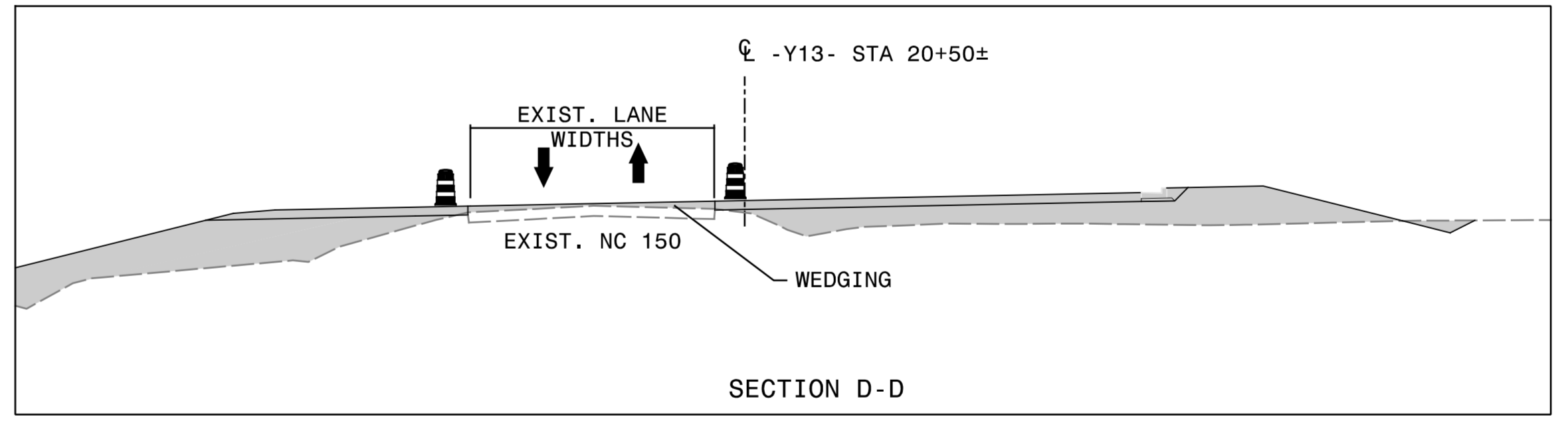
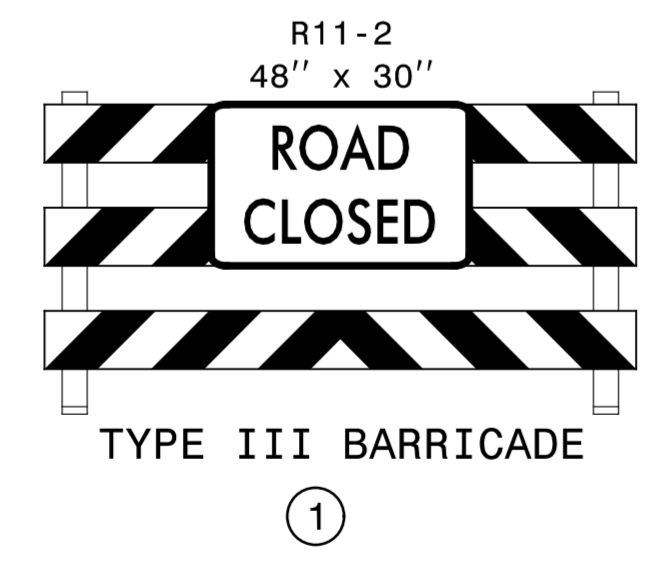
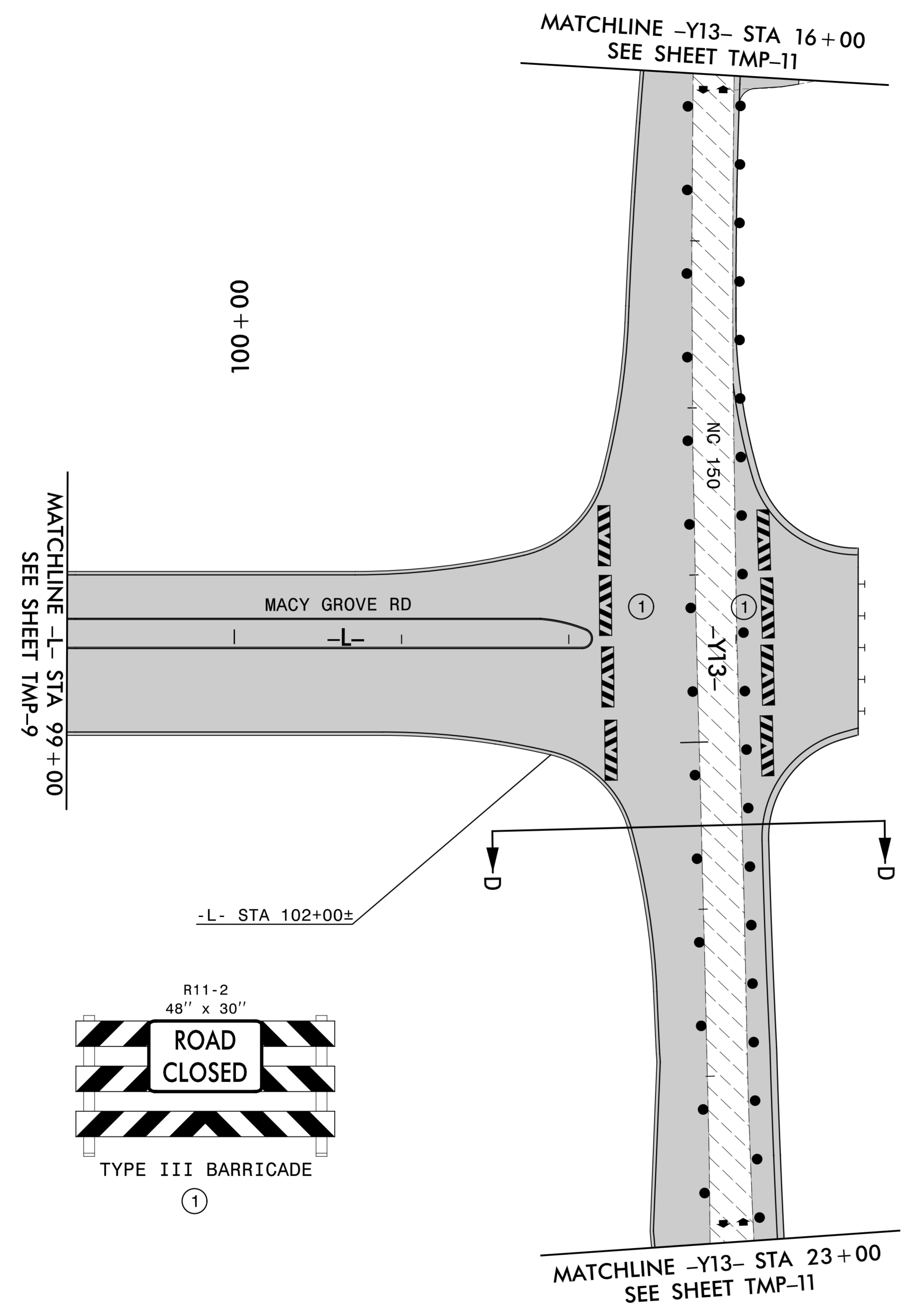
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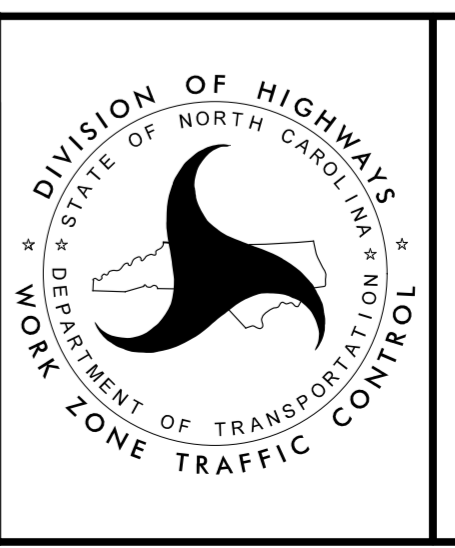
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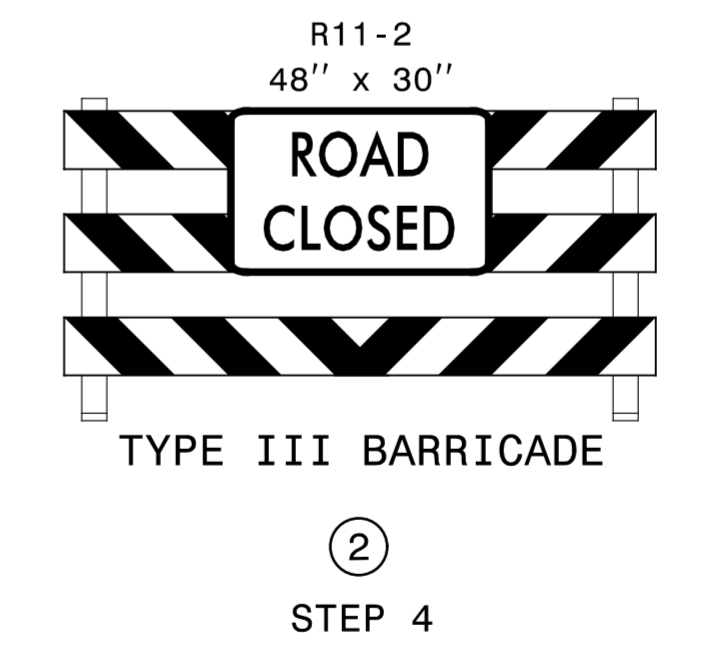
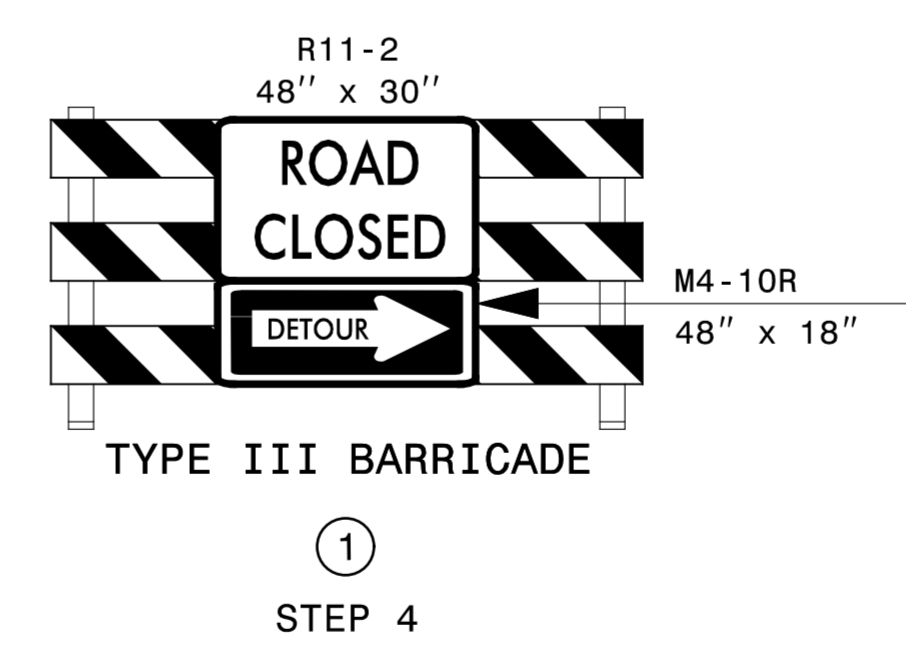
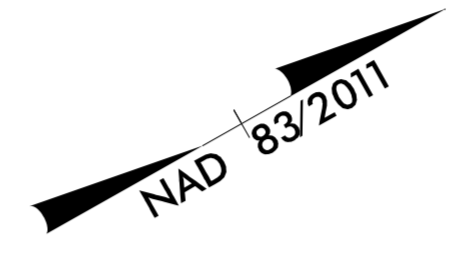
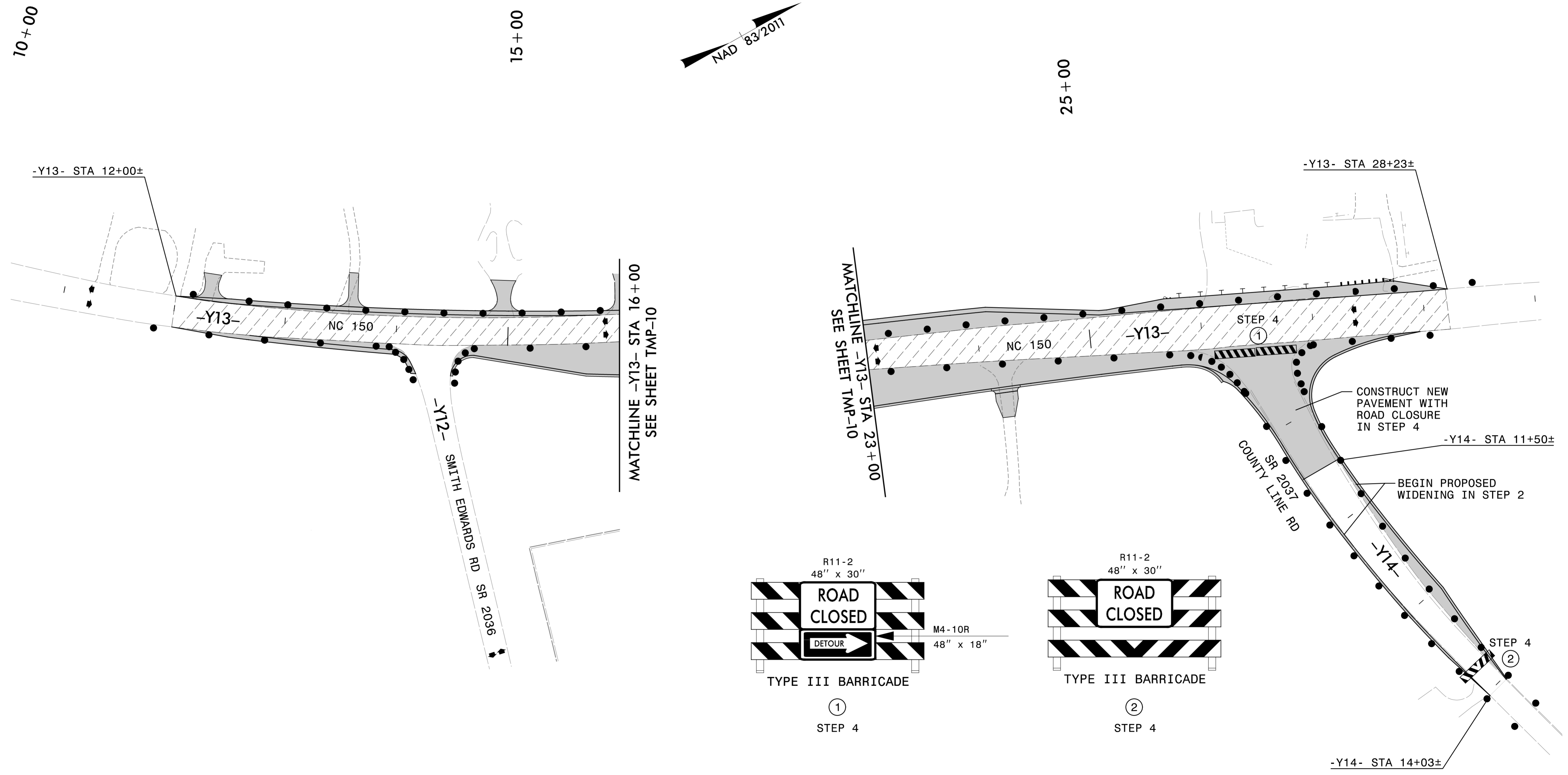
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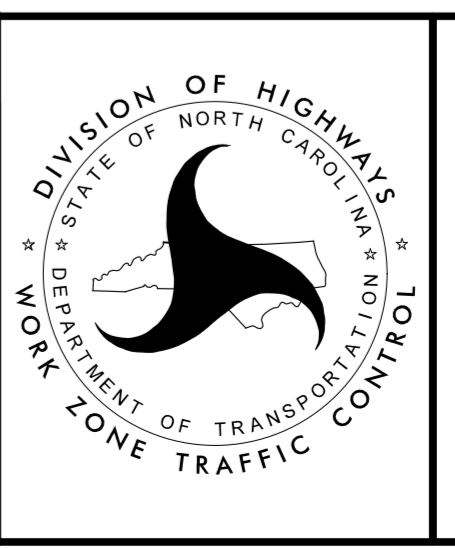


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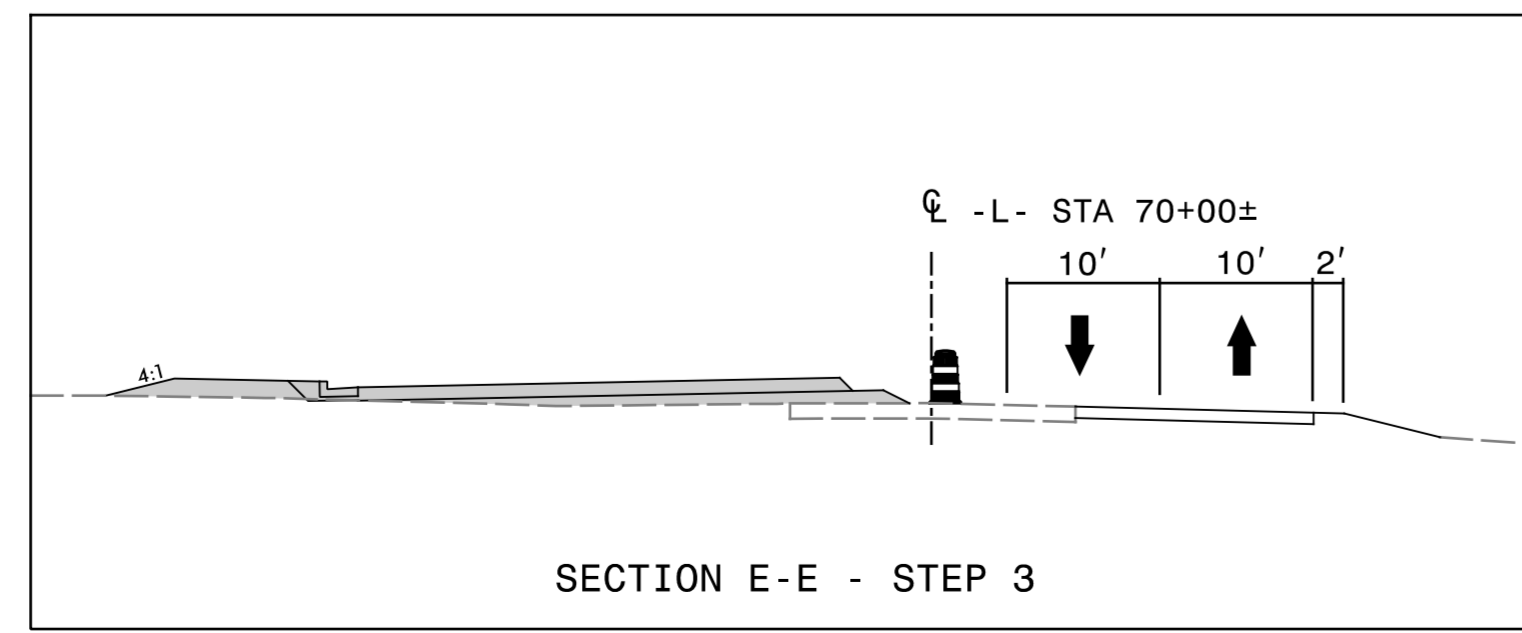
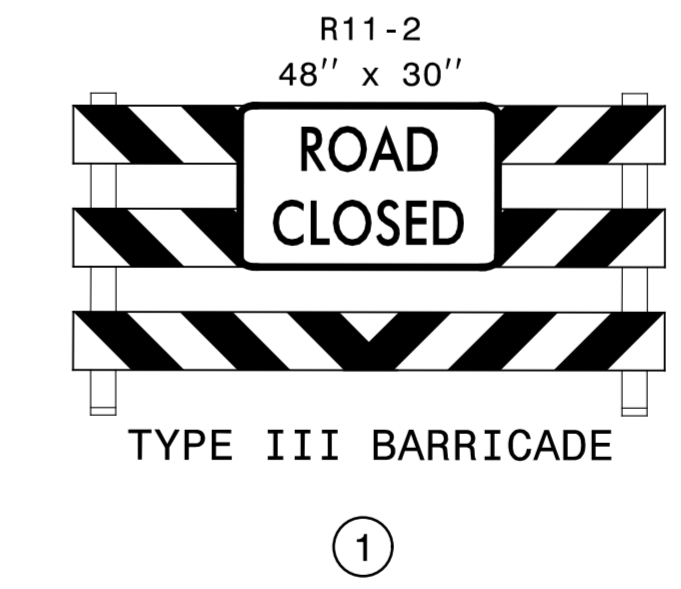
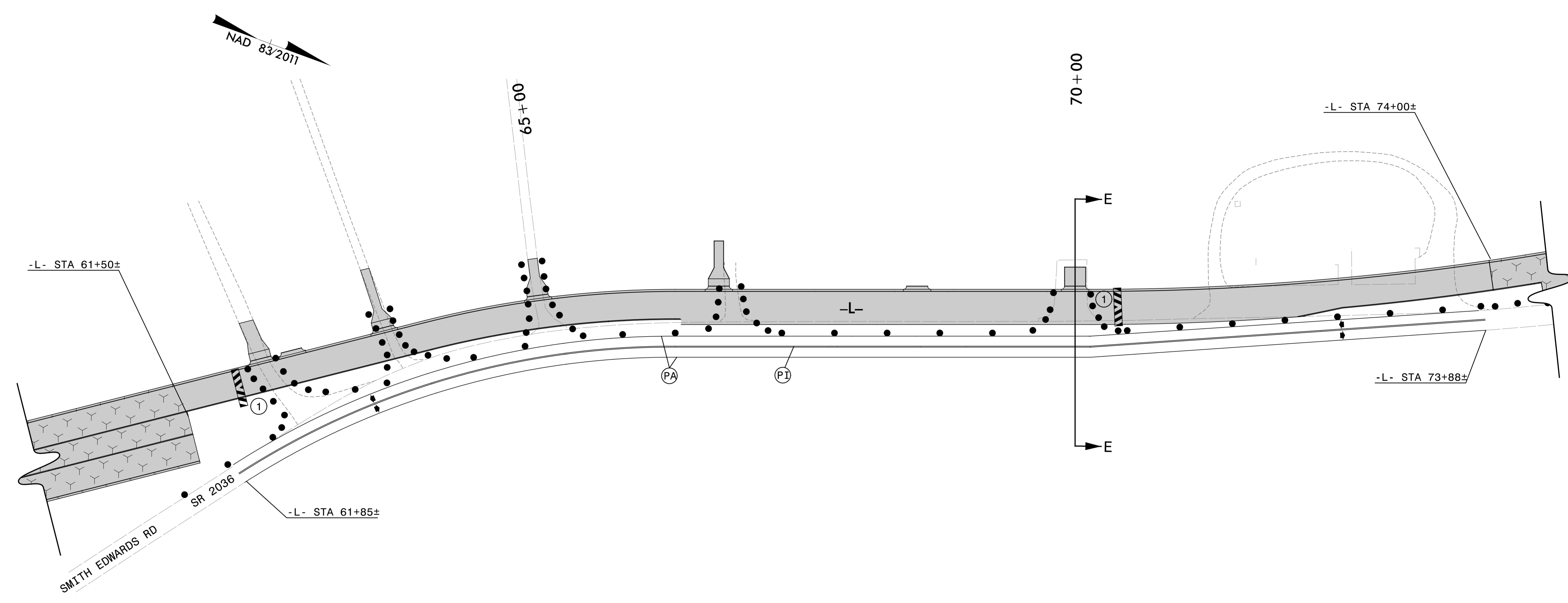


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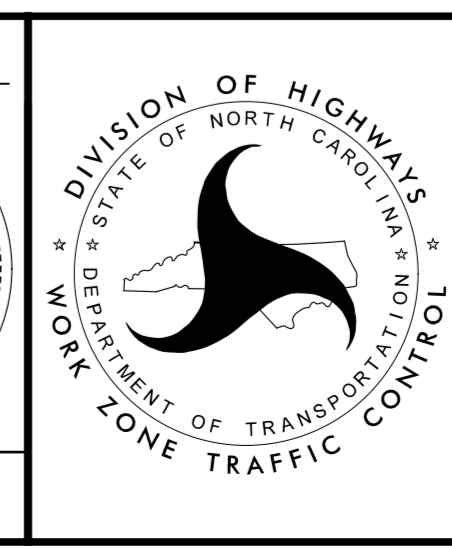
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U-4734	TMP-12



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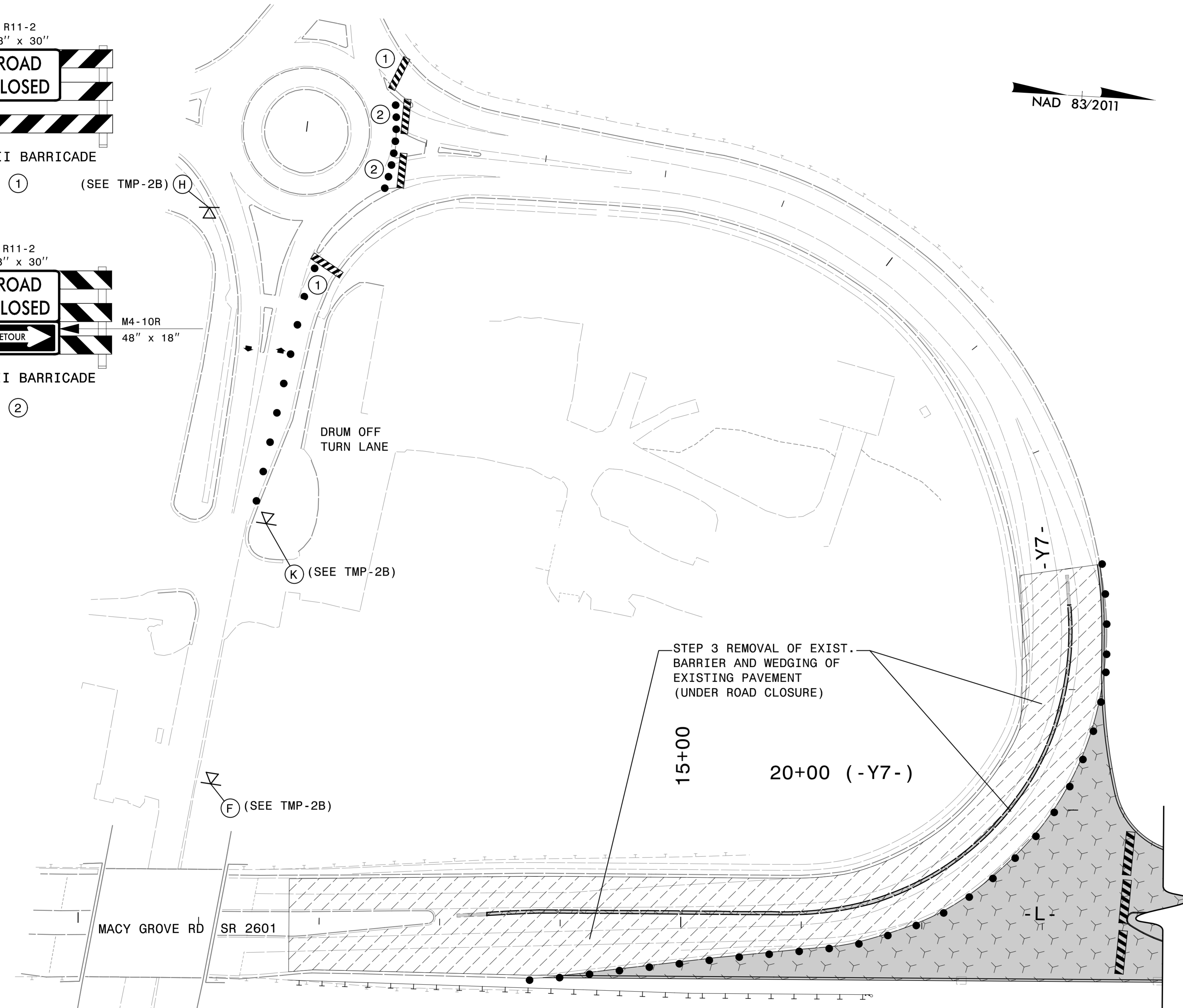
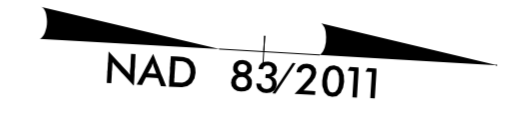
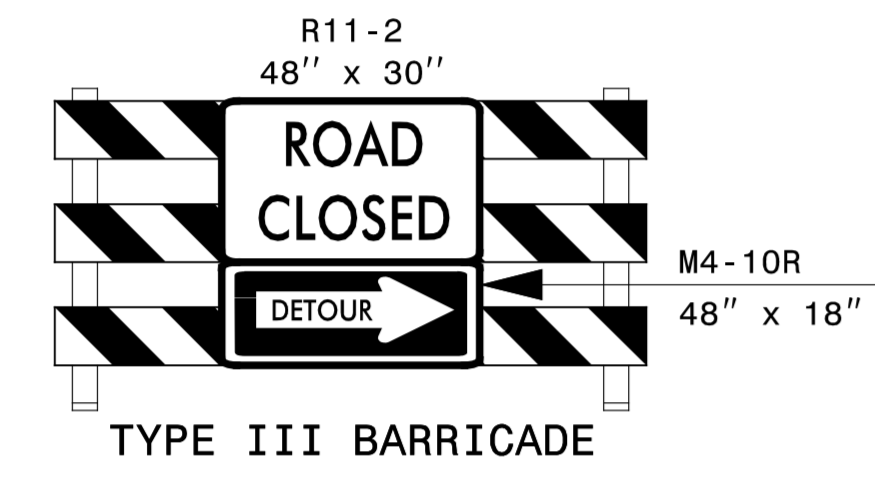
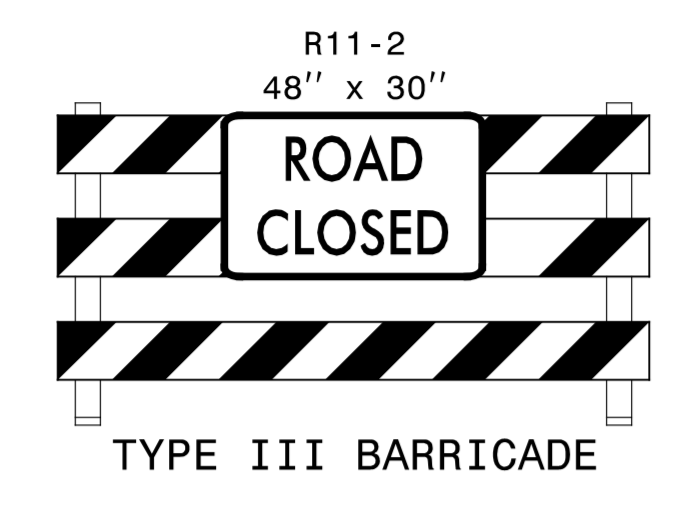
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PHASE I STEP 3
DETAIL

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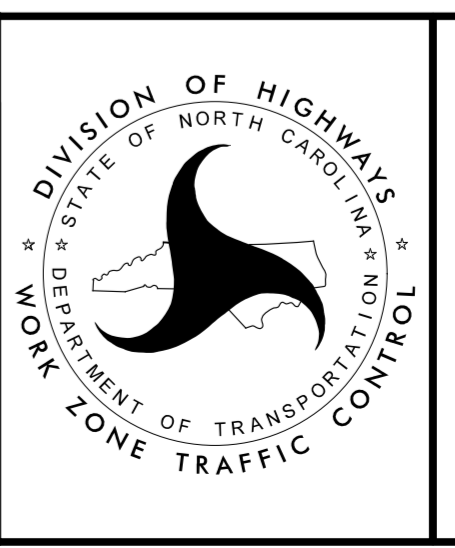
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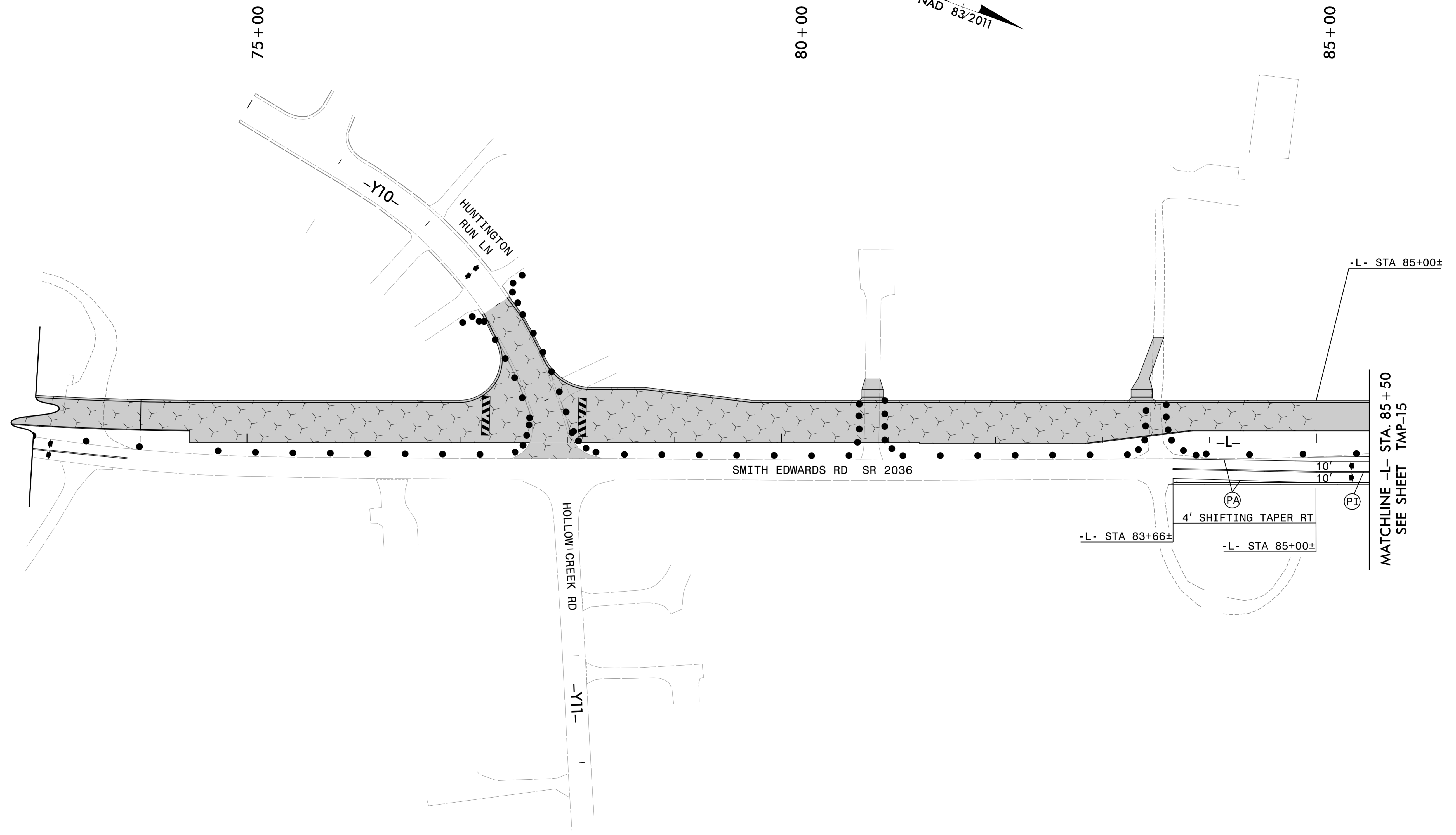


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U-4734	TMP-14

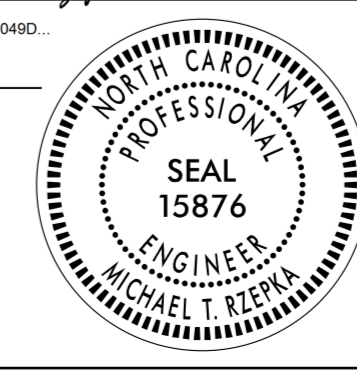


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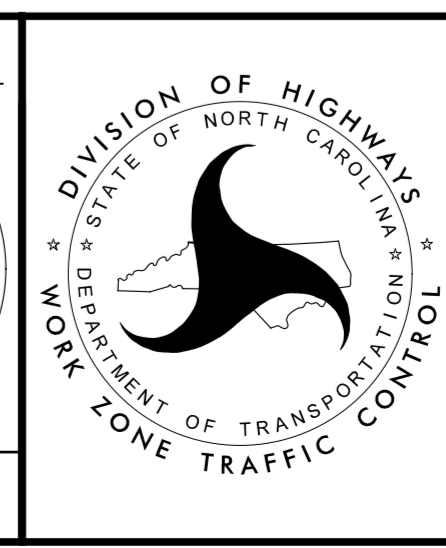
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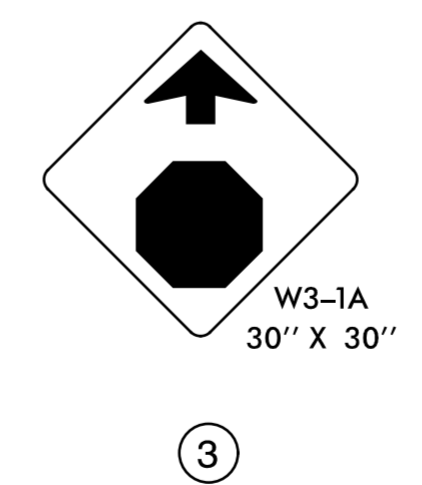
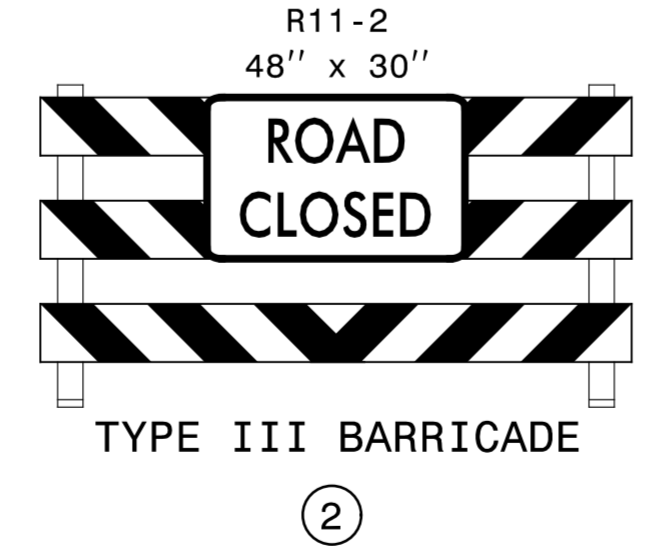
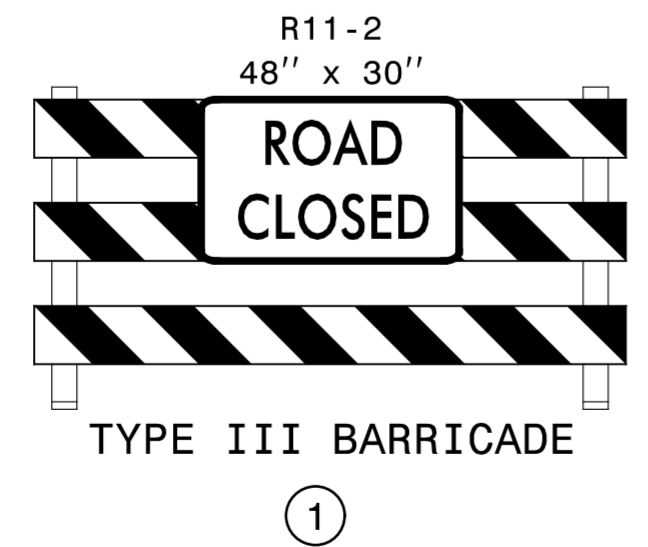
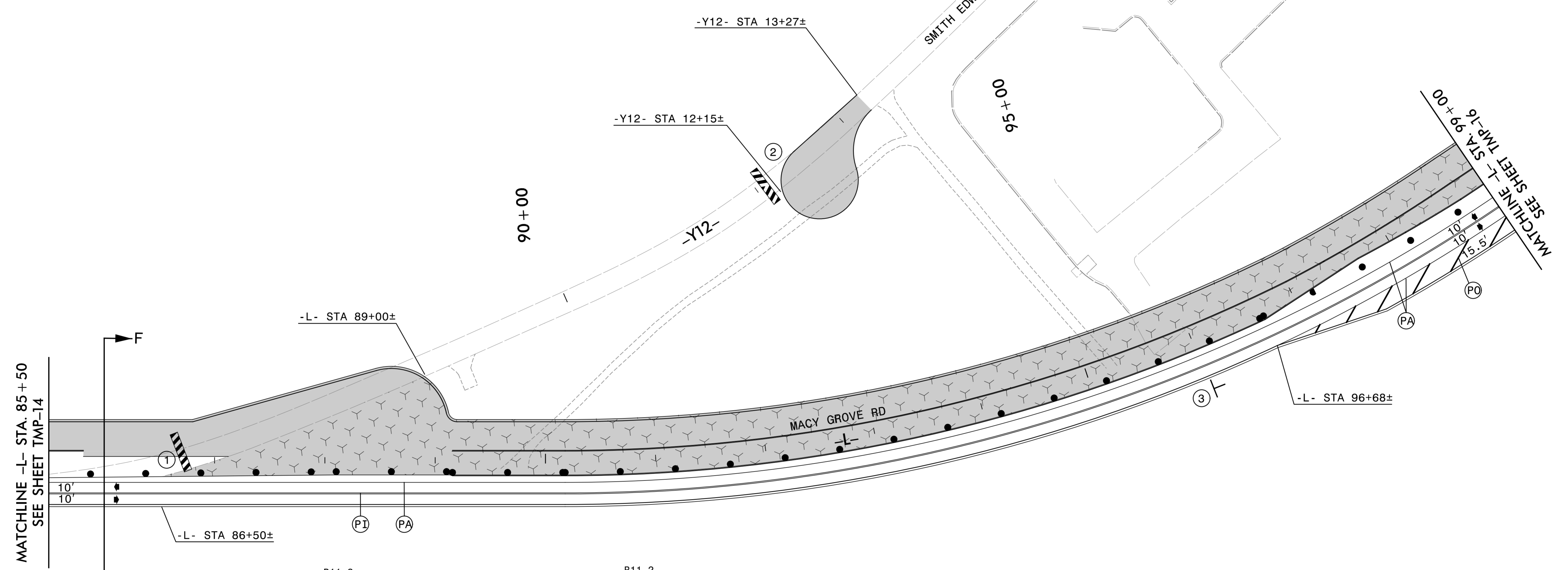
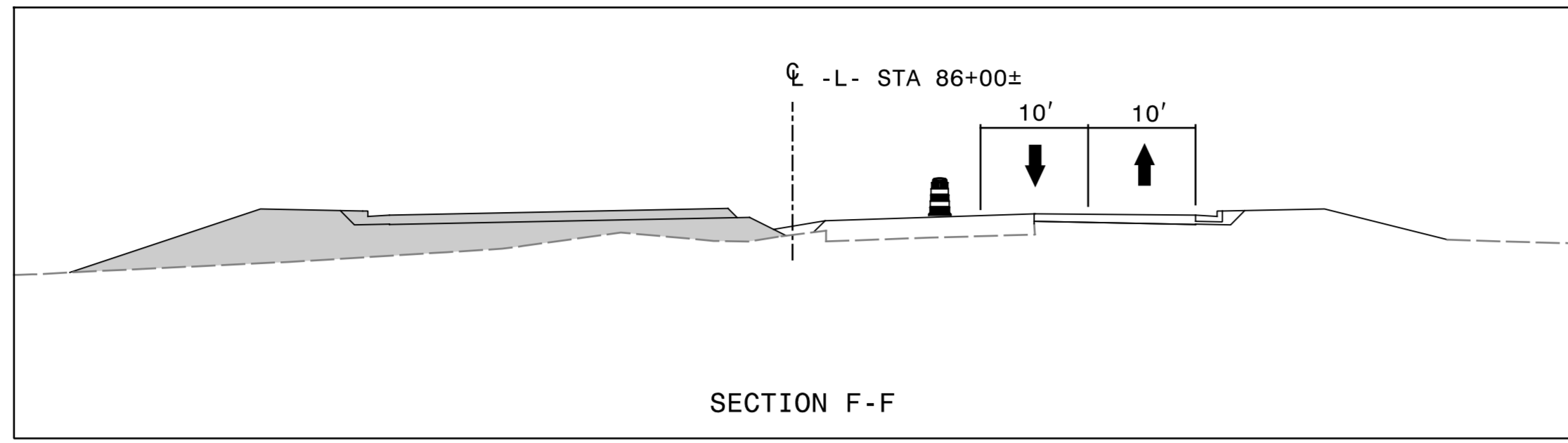


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PROJ. REFERENCE NO.	SHEET NO.
U-4734	TMP-15

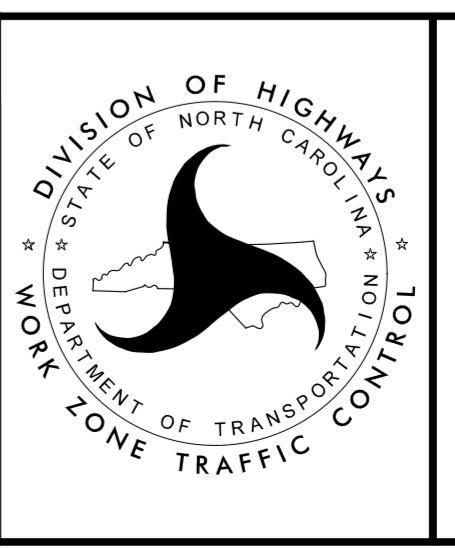


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DocuSigned by: Michael T. Egegho
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DATE: 4/2/2018

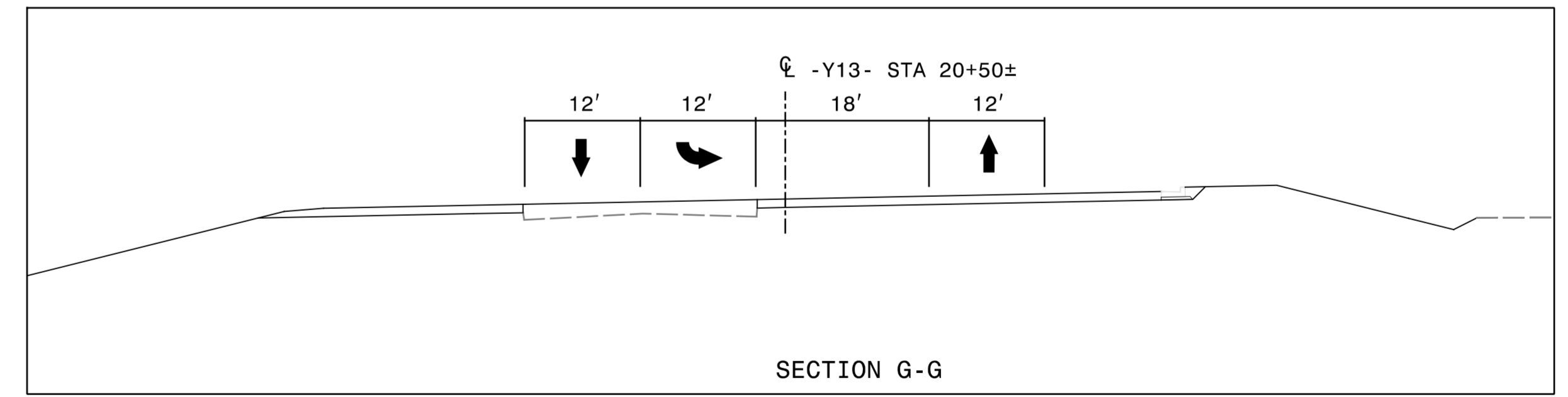
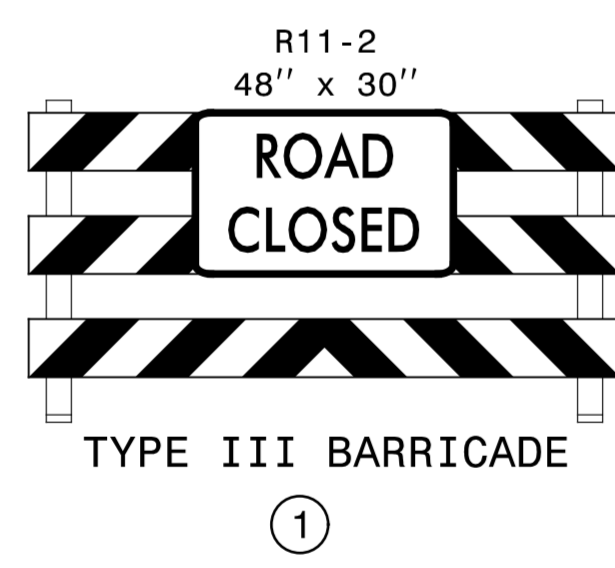
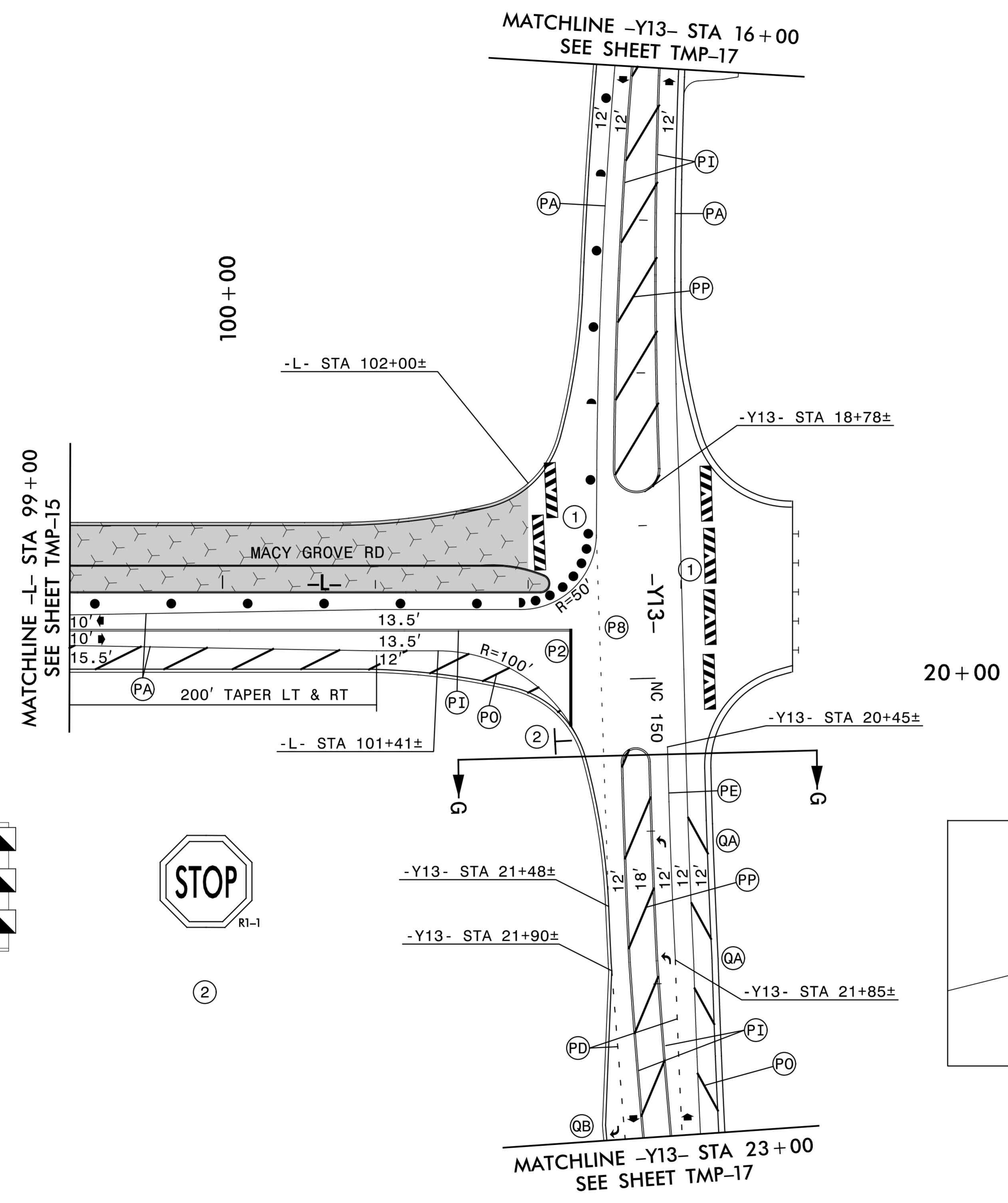
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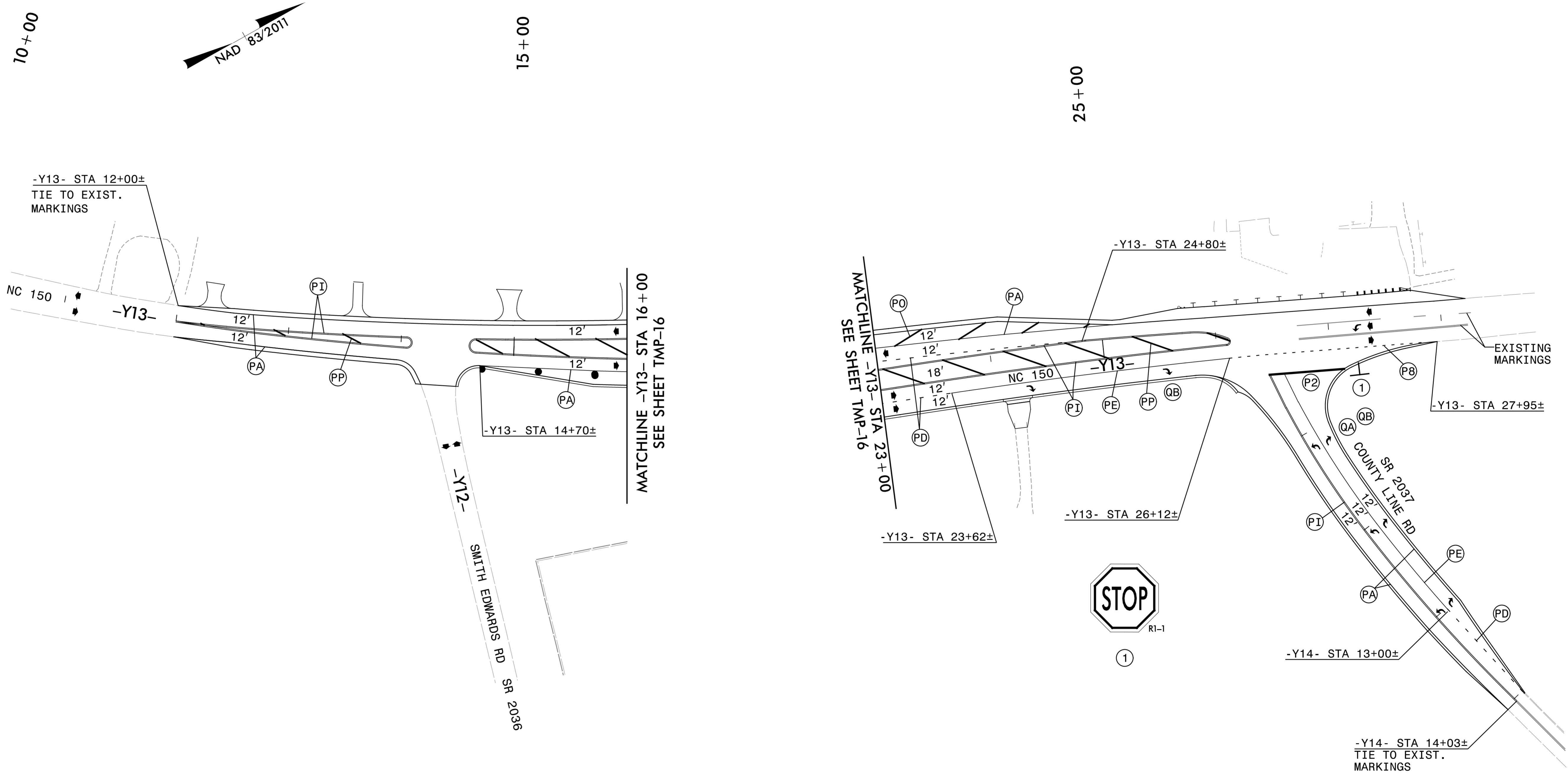
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PROJ. REFERENCE NO.	SHEET NO.
U-4734	TMP-17



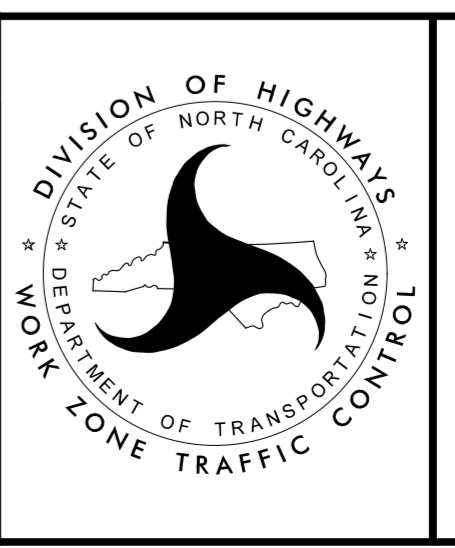
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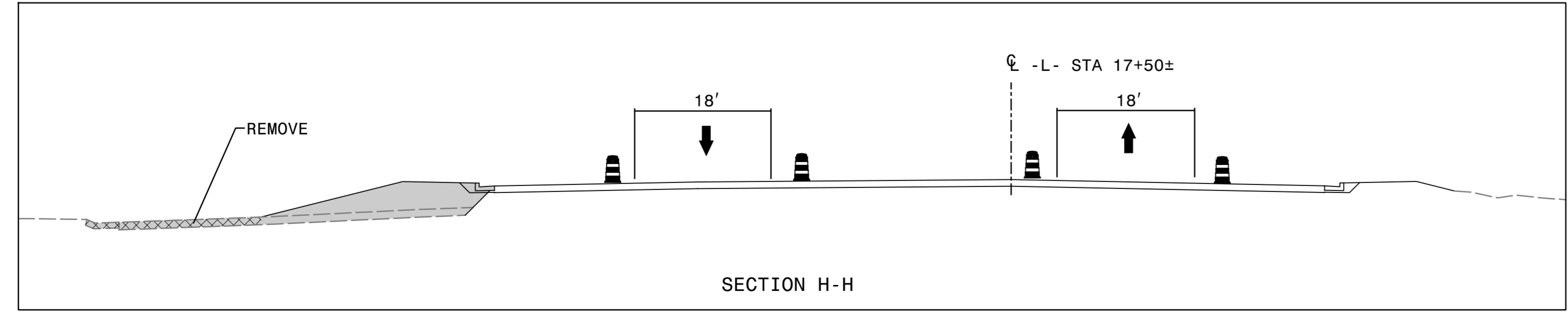
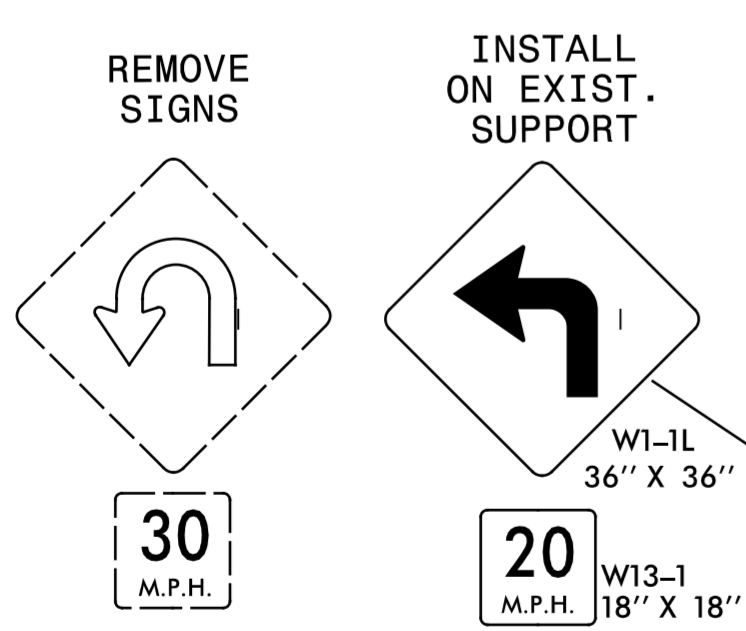
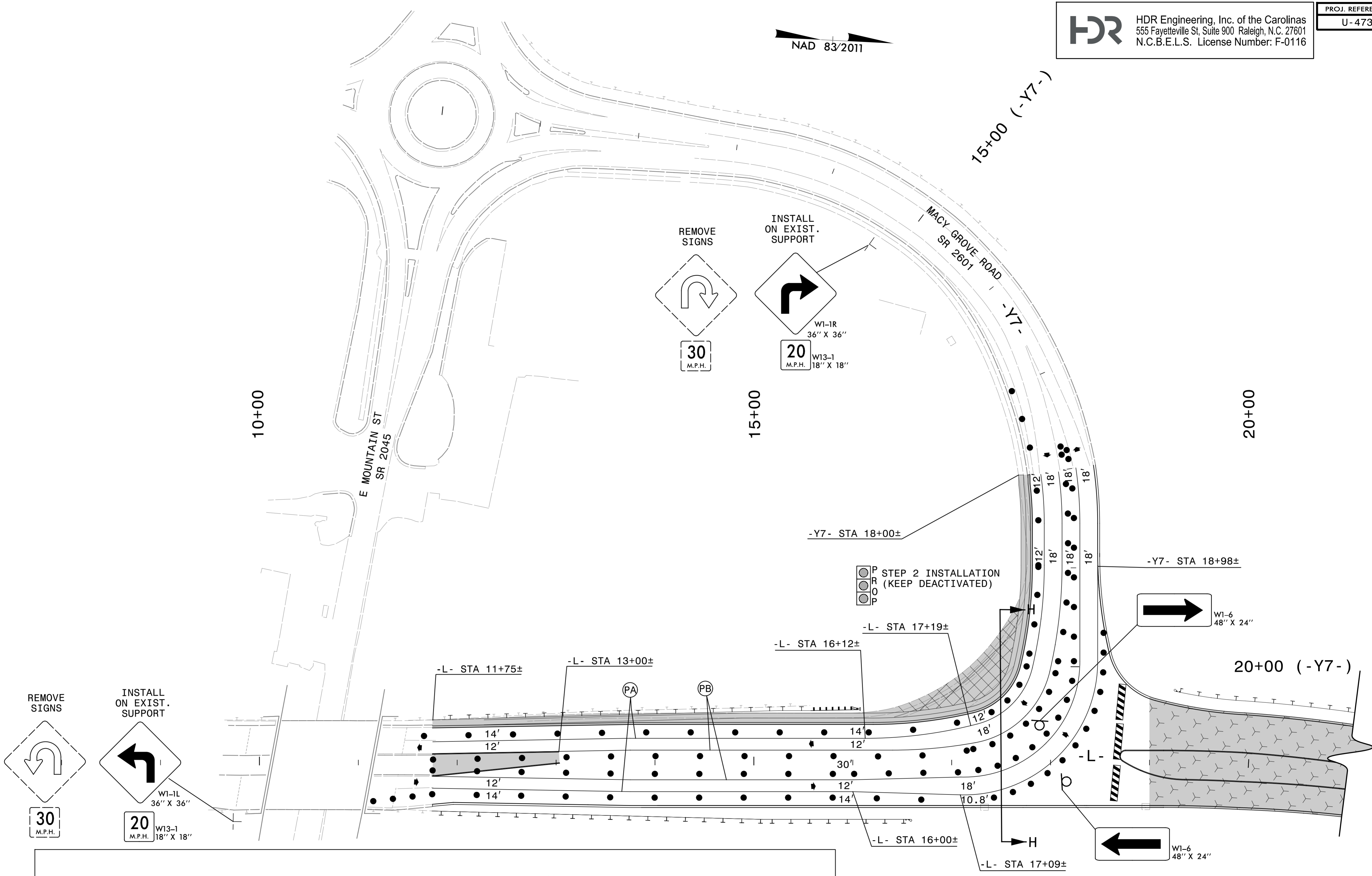
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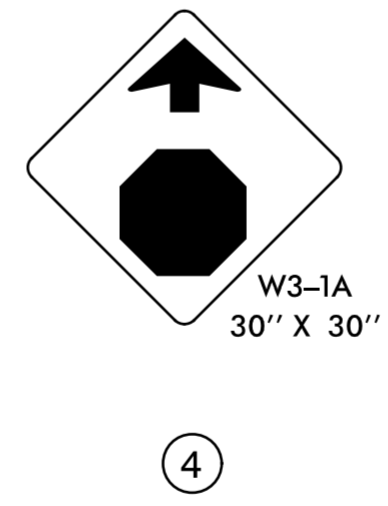
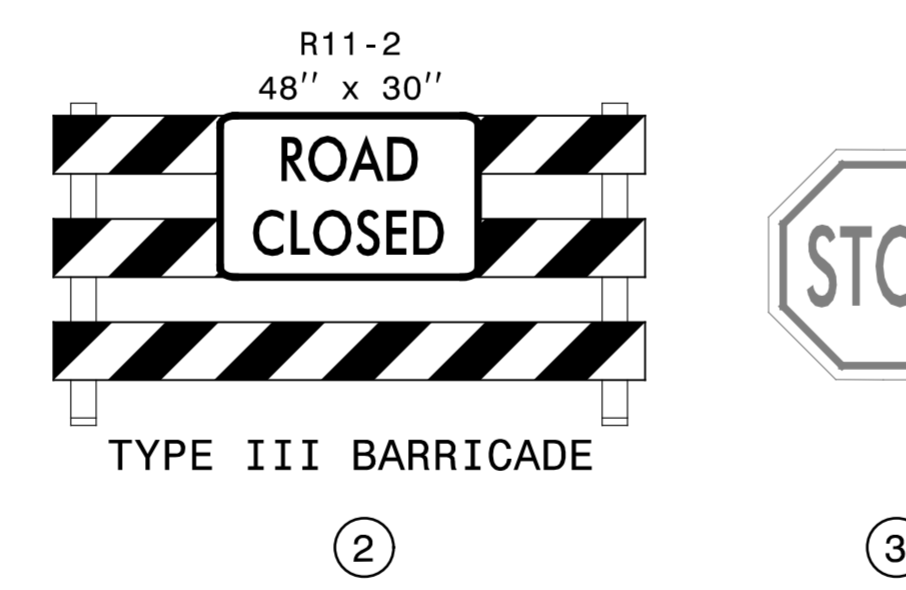
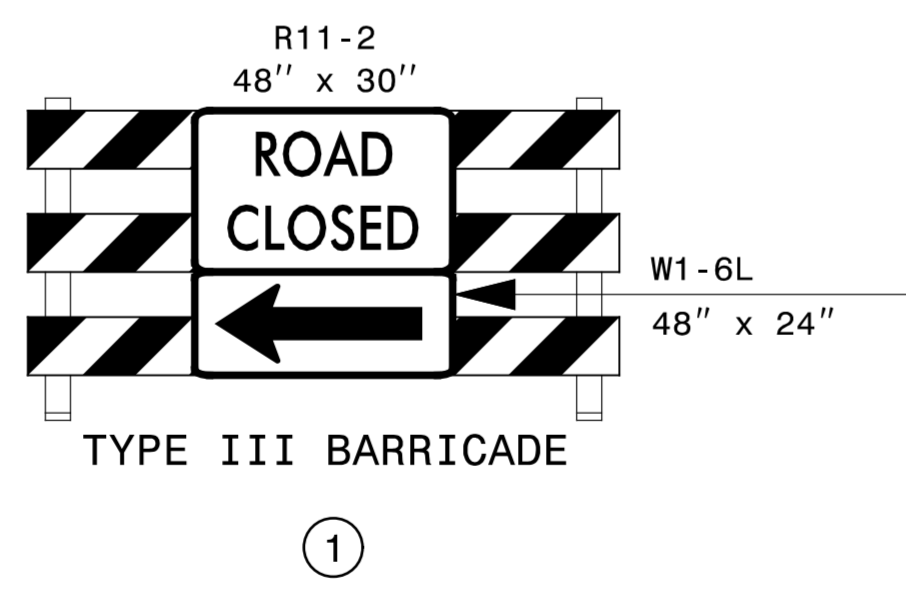
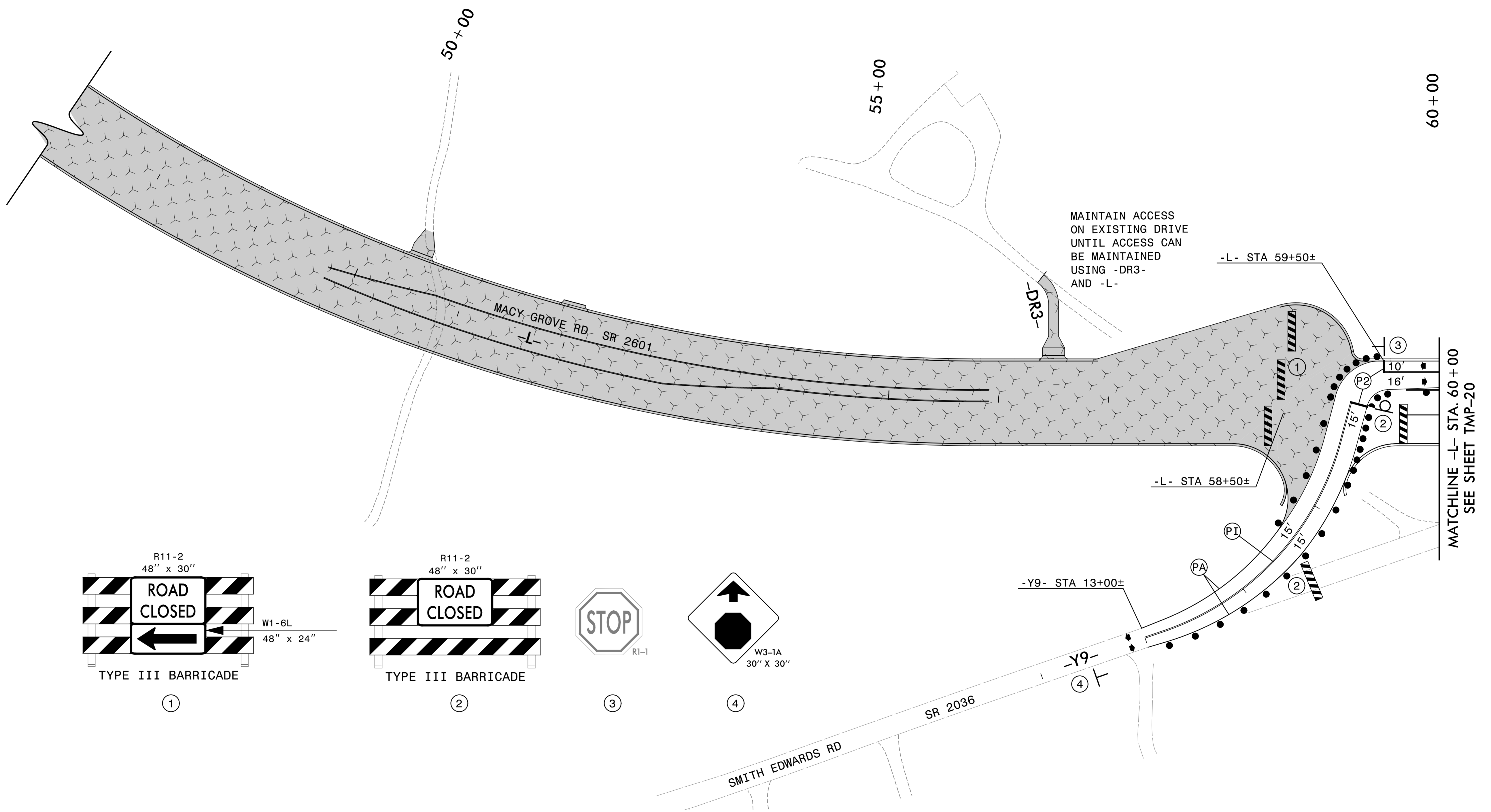
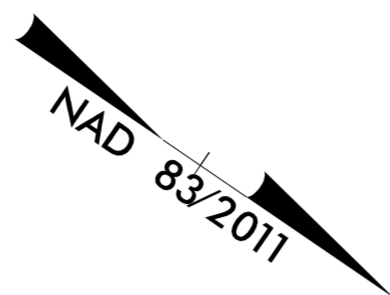
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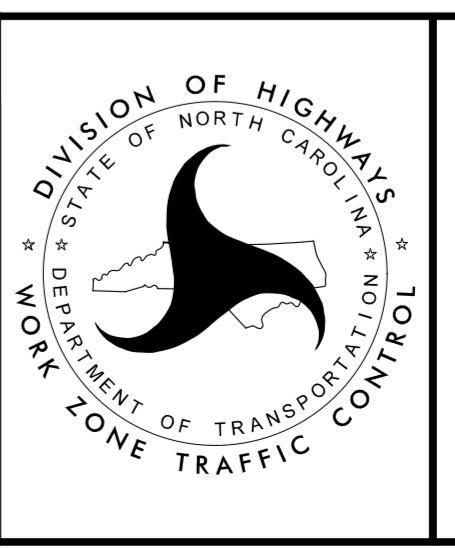


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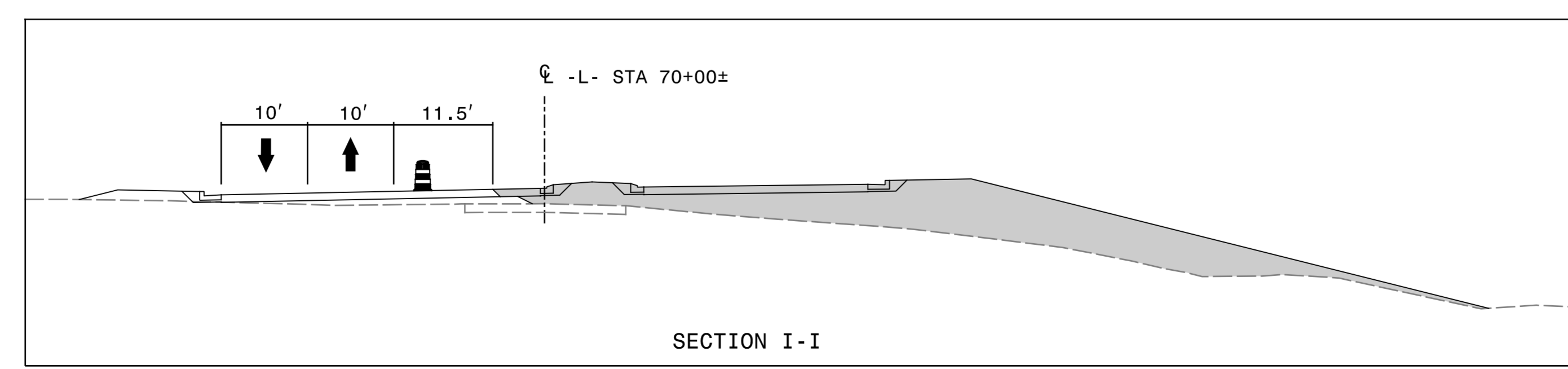
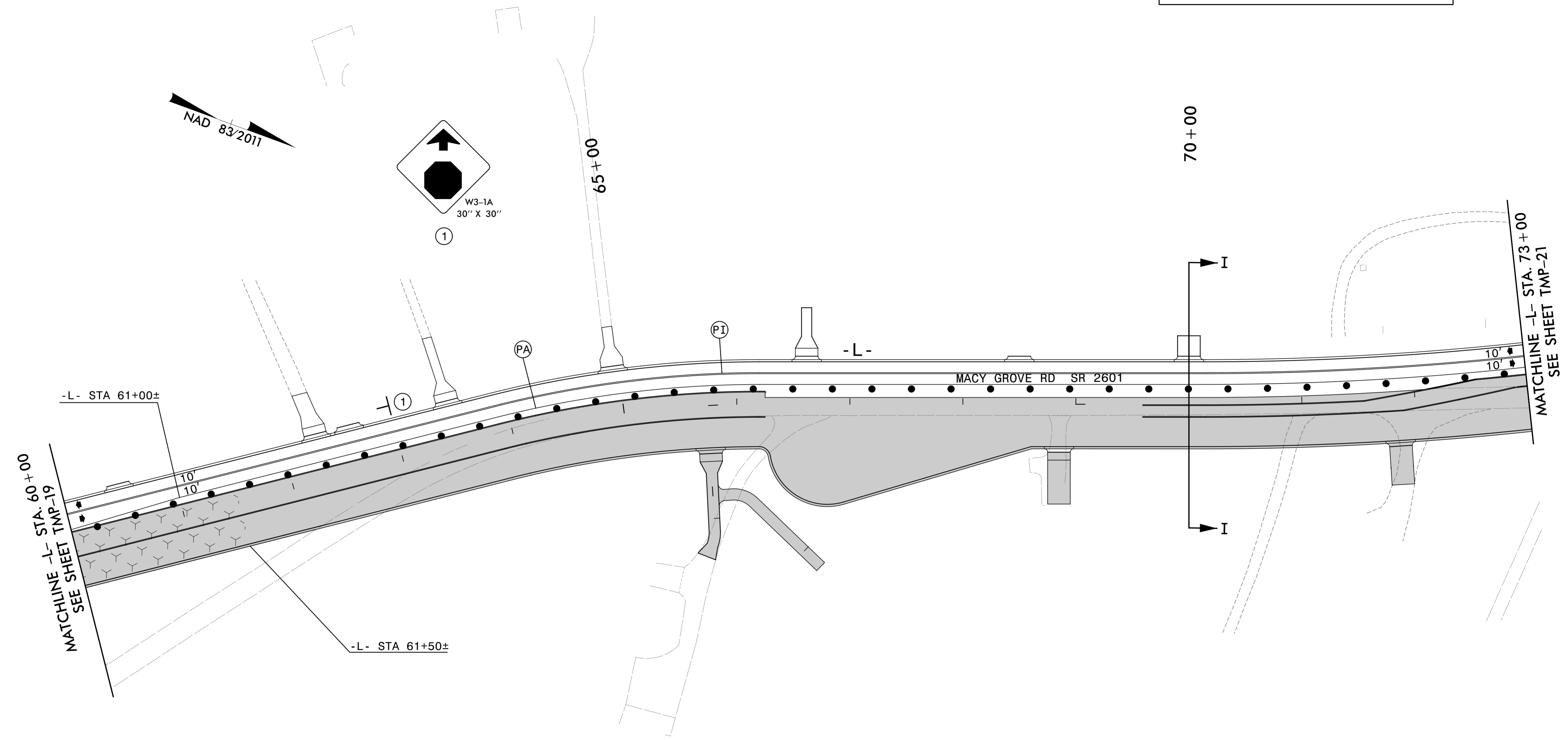
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 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL



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PROJ. REFERENCE NO.	SHEET NO.
U-4734	TMP-20



SECTION I-I

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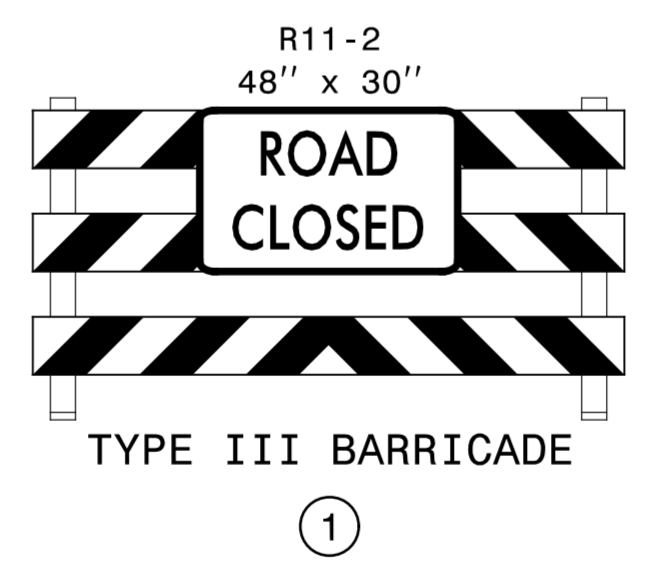
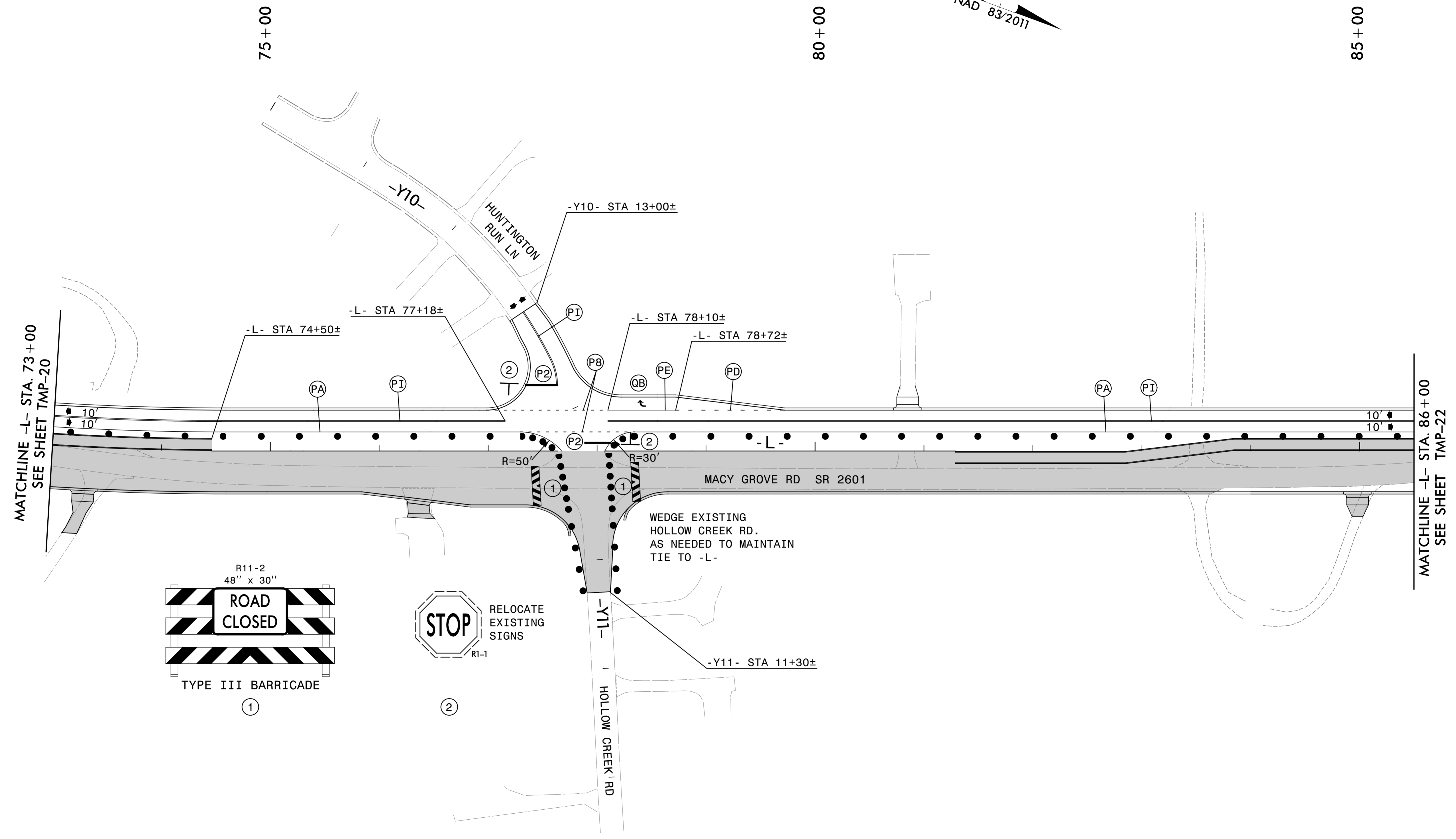
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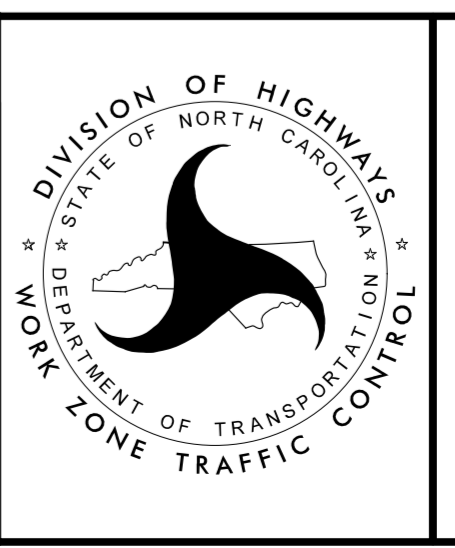


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 018C3480C28049D

DATE: 4/2/2018

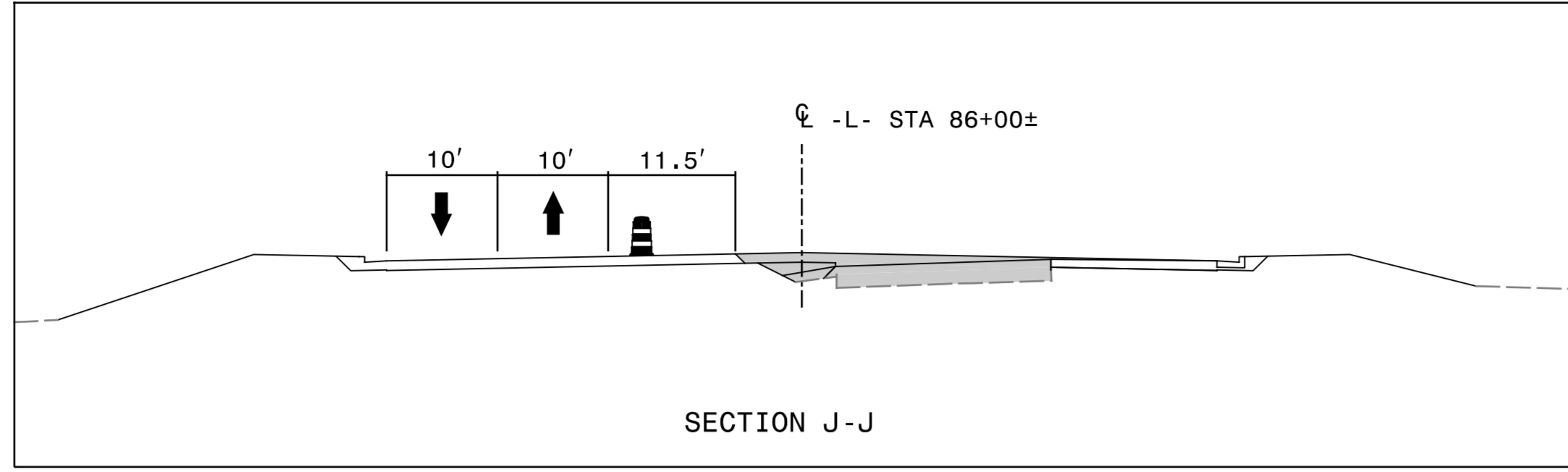
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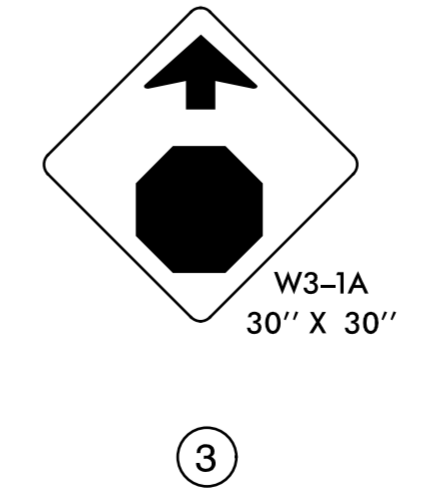
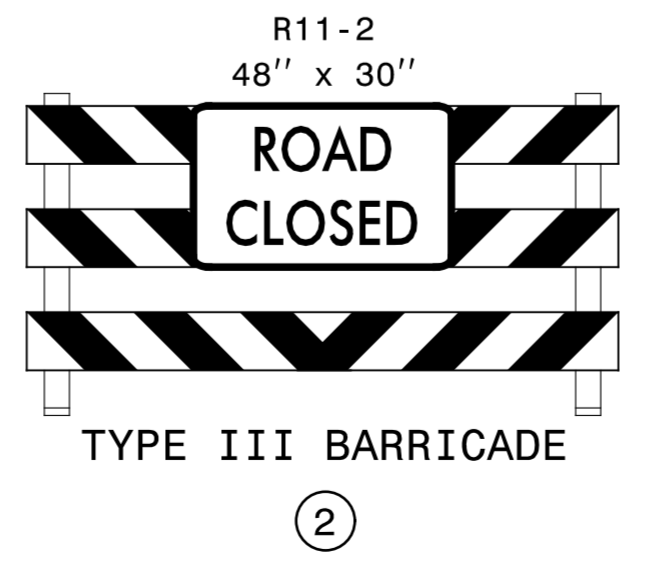
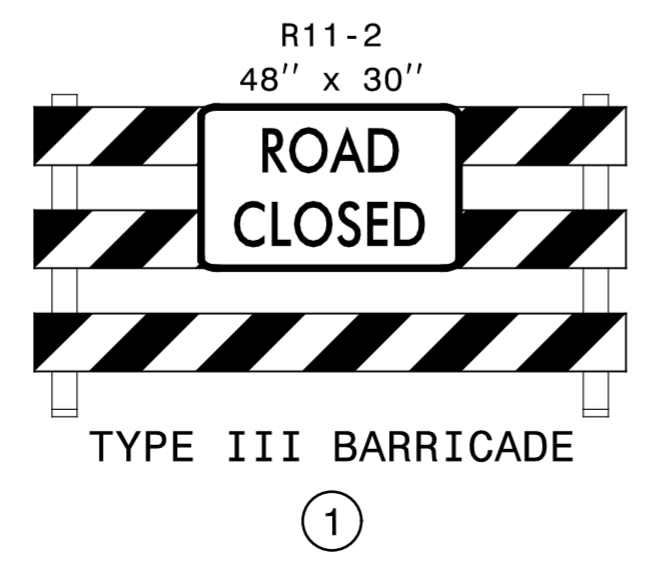
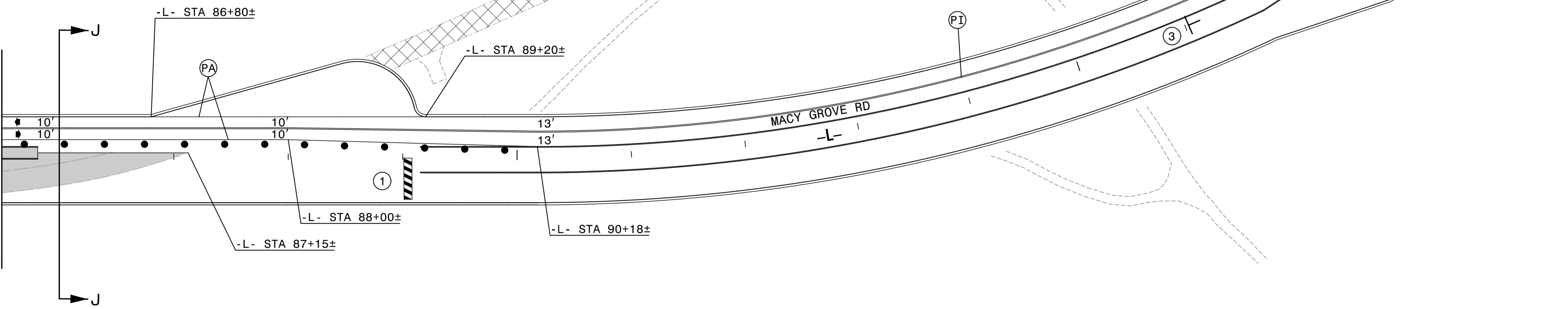


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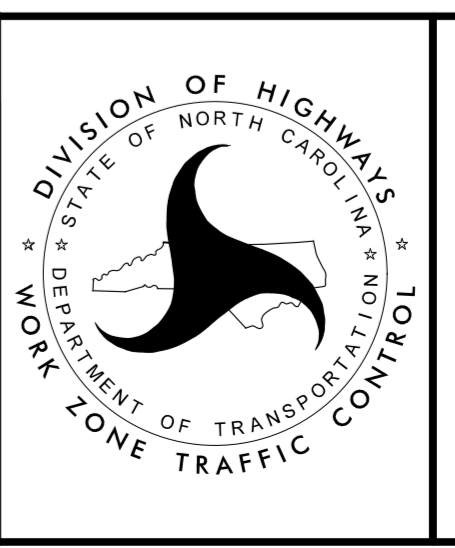
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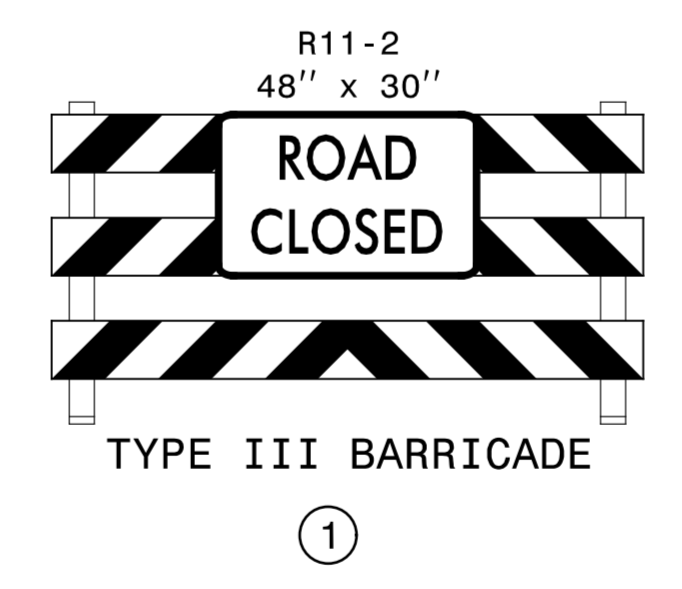
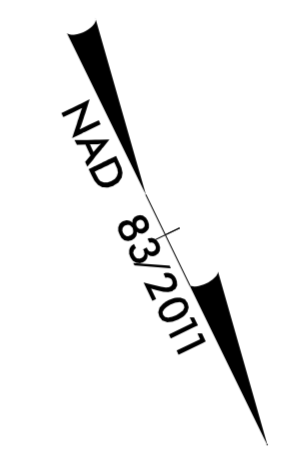
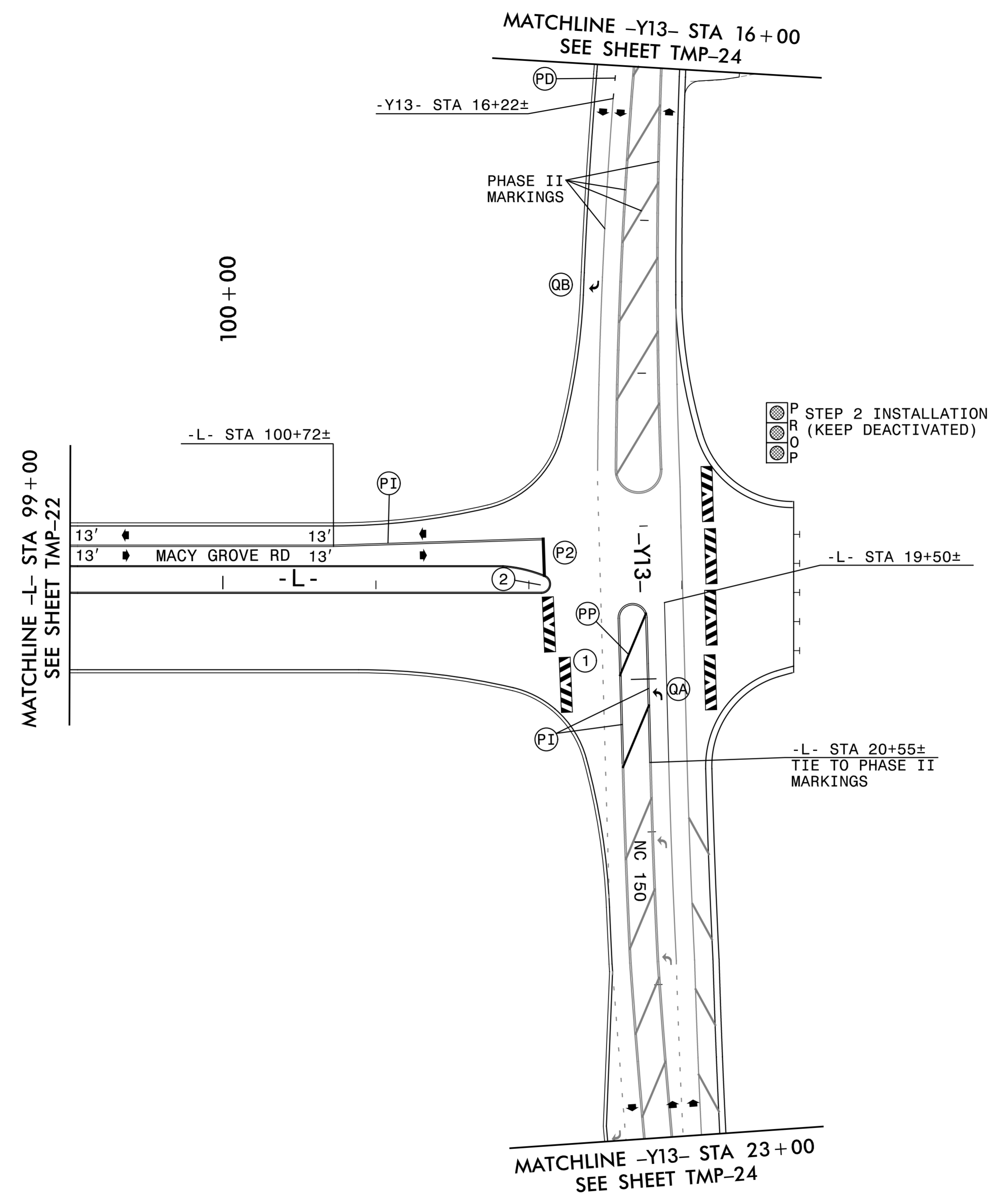


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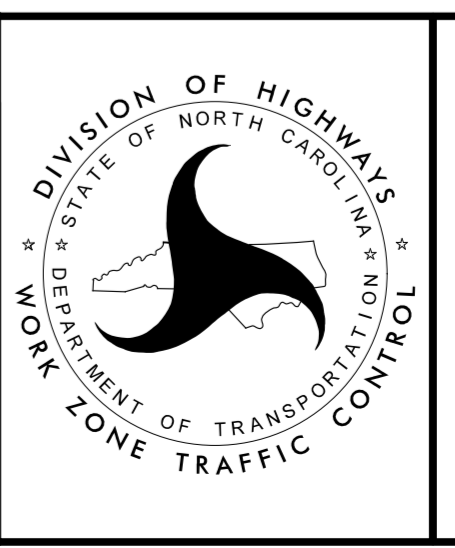


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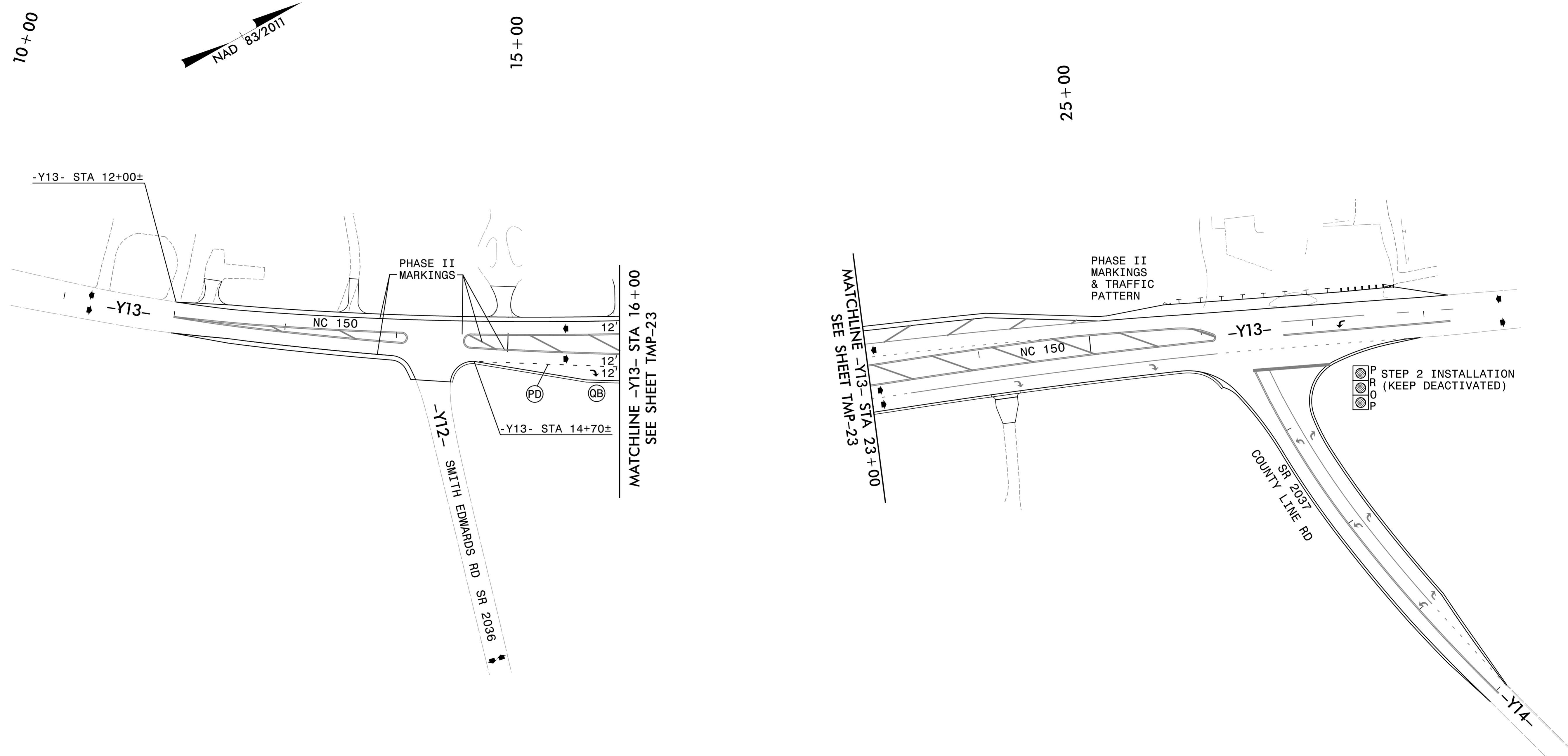
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PROJ. REFERENCE NO.	SHEET NO.
U-4734	TMP-24

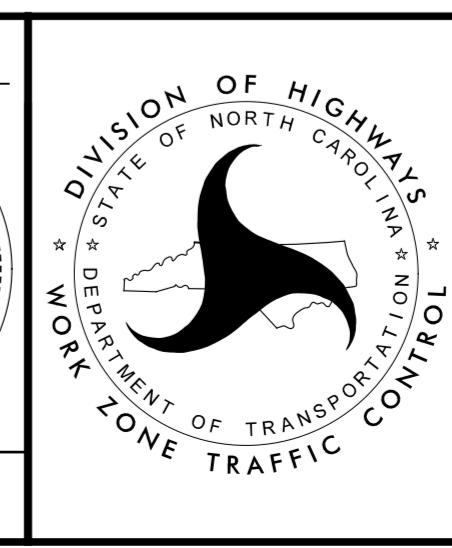


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