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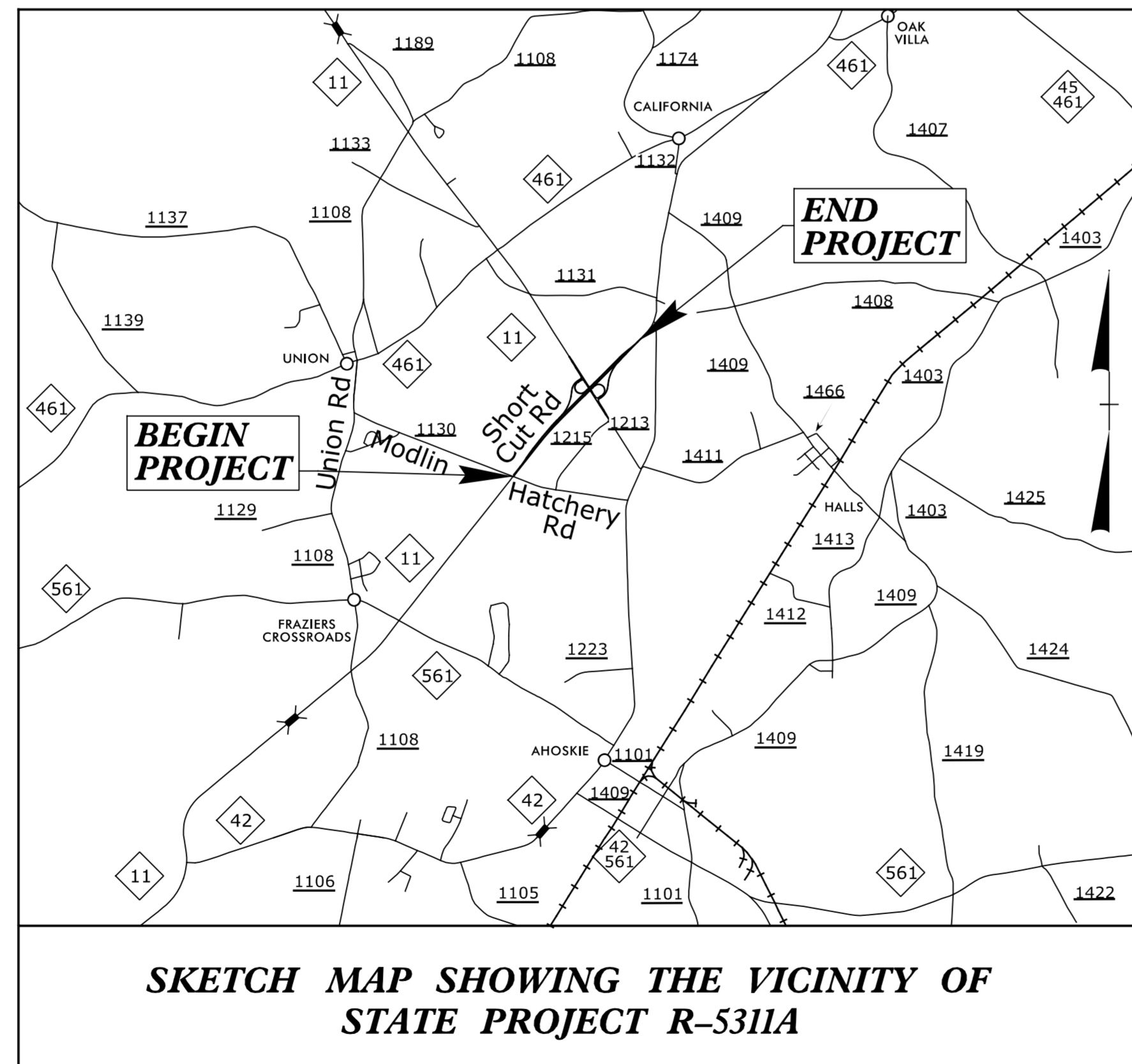
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

HERTFORD COUNTY

LOCATION: WEST OF MODLIN ROAD TO EAST OF NC 11/SR 1213 (OLD NC 11 ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURES



SKETCH MAP SHOWING THE VICINITY OF STATE PROJECT R-5311A

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-2 & TMP-2A	TRANSPORTATION OPERATIONS PLAN
TMP-2B	-Y2- NC 11 OVERNIGHT DETOUR
TMP-2C	-Y1- MODLIN HATCHERY ROAD DETOUR
TMP-2D	-Y1- MODLIN HATCHERY ROAD OVERNIGHT DETOUR
TMP-2E	MODLIN HATCHERY ROAD SIGN DESIGN
TMP-3	PHASING
TMP-4 THRU TMP-6	PHASE I DETAILS
TMP-7 & TMP-8	PHASE II DETAILS
TMP-9 & TMP-10	PHASE III DETAILS
TMP-11 THRU TMP-12	PHASE IV DETAILS

SHEET NO.
TMP-1

R-5311A

TIP PROJECT:

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APPROVED: Michael T. Rzepka
DATE: 3/22/2017

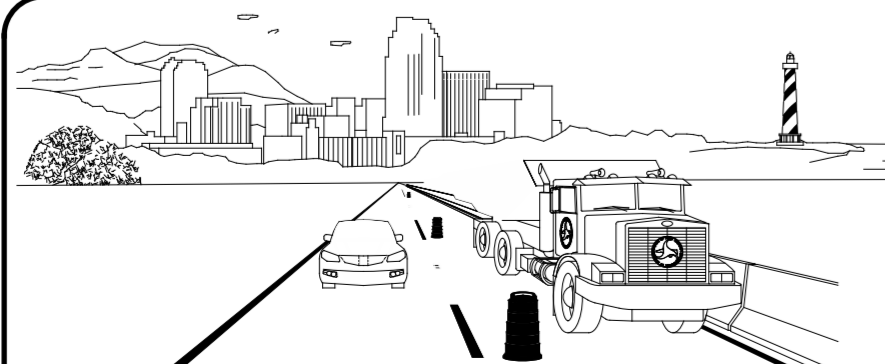
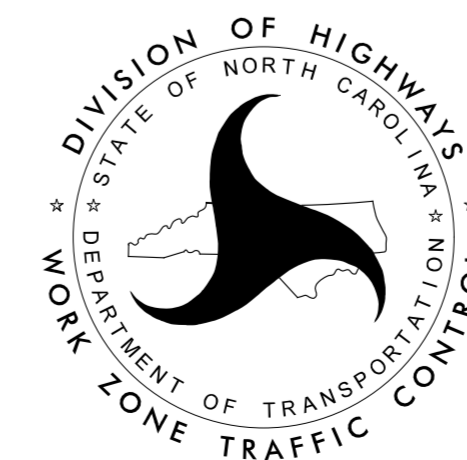
SEAL



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WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

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 JANUARY 2012 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
1101.11	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
1160.01	TEMPORARY CRASH CUSHION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
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.

- WORK AREA
- CONTINUING CONSTRUCTION
- REMOVAL
- TEMPORARY PAVEMENT

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

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
<u>PAINT (4")</u>	
P8	2 FT.-6 FT./SP WHITE MINISKIP
P9	2 FT.-6 FT./SP YELLOW MINISKIP
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PD	3FT.-9FT./SP WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PI	DOUBLE YELLOW CENTERLINE
<u>PAINT (8")</u>	
PN	WHITE GORELINE
PP	YELLOW DIAGONAL
<u>PAINT (24")</u>	
P2	WHITE STOPBAR
<u>SYMBOLS</u>	
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QN	24" YIELD LINE TRIANGLE

TEMPORARY RAISED MARKERS

MH	YELLOW & YELLOW
MI	CRYSTAL & RED

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APPROVED: <small>01BC349C26046D...</small> DATE: 3/22/2017 SEAL			ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING SCHEDULE
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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 UNDESIRABLE 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
NC 11 (-EL- & -L2-)	MONDAY THRU FRIDAY
NC 11 (-Y2-)	6:00 AM - 8:00 AM
SHORT CUT RD.	5:00 PM - 6:00 PM

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

ROAD NAME
NC 11 (-EL- & -L2-)
NC 11 (-Y2-)
SHORT CUT RD.

HOLIDAY

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

C) DO NOT CLOSE ROAD AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	OPERATION
NC 11 (-EL- & -L2-)	MONDAY THRU FRIDAY	GIRDER INSTALLATION
SHORT CUT RD.	6:00 AM - 7:00 PM	(OFFSITE DETOUR)

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.
- 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 NC 11 (-L2- & -Y2-) AND SHORTCUT ROAD.

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 TWENTY ONE (21) 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 BARRIER

S) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

T) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.


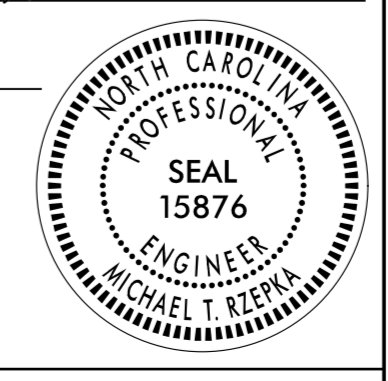

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

U) 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.

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

APPROVED:  DATE: 3/22/2017 <div style="text-align: center;">  </div>		<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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GENERAL NOTES (CONT'D)

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
NC 11 SHORCUT ROAD	PAINT PAINT	TEMPORARY RAISED TEMPORARY RAISED

- X) 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.
- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- AA) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS.

MISCELLANEOUS

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

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:

NC 11 (-L- & -Y2-)

TRAFFIC WILL BE MAINTAINED IN EXISTING PATTERN WITH DAILY LANE CLOSURES TO FOR PROPOSED AND TEMPORARY WIDENING, INCLUDING RAMPS AND LOOPS, AND CONSTRUCTION OF ONSITE (-Y1DET-) DETOUR. -Y2- STRUCTURE WORK CAN PROCEED BEHIND TEMPORARY BARRIER.

TRAFFIC (-Y2-) WILL BE PLACED ON AN ON-SITE DETOUR UNTIL ENOUGH OF -Y2- AND RAMP B/LOOP B IS COMPLETED TO CARRY TRAFFIC.

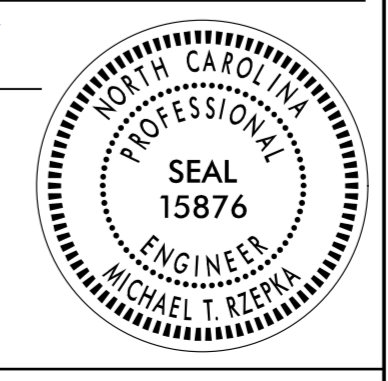
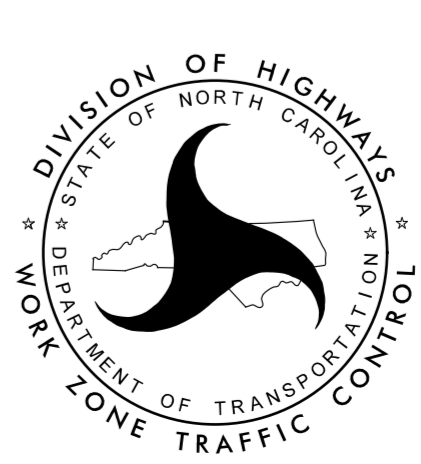
-Y2- STRUCTURE AND ROADWAY APPROACHES WILL BE COMPLETED WITH NC 11 TRAFFIC SHIFTED TO COMPLETED QUADRANT B RAMP/LOOP. OVERNIGHT CLOSURES OF SHORT CUT ROAD, WITH OFFSITE DETOUR, WILL BE IMPLEMENTED FOR OVERHEAD GIRDER INSTALLATION.

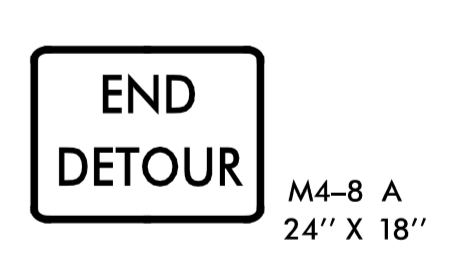
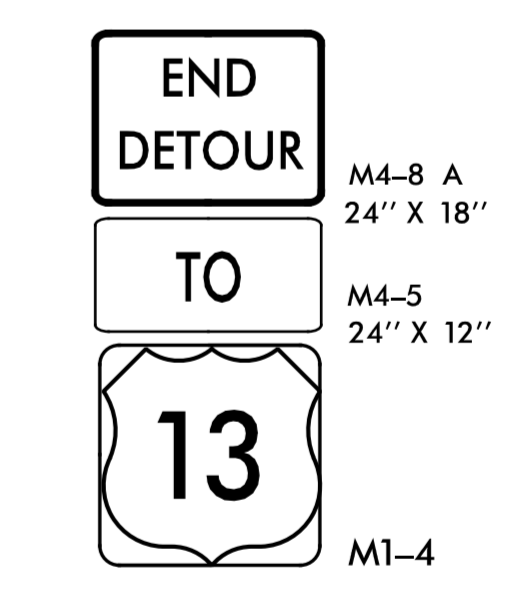
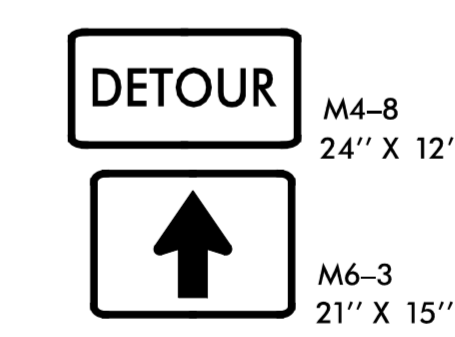
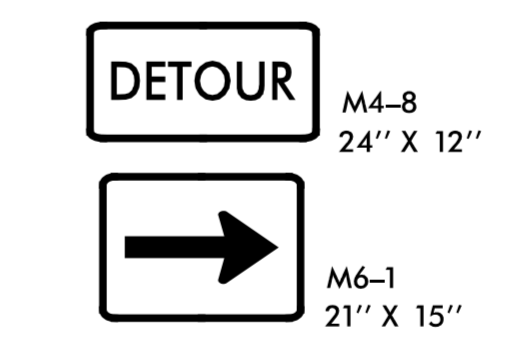
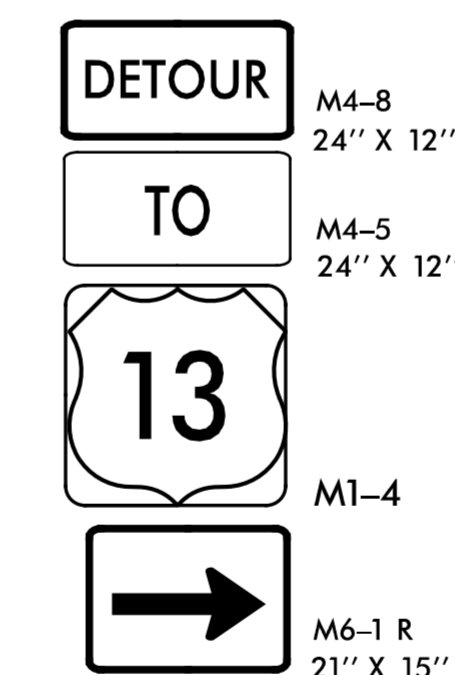
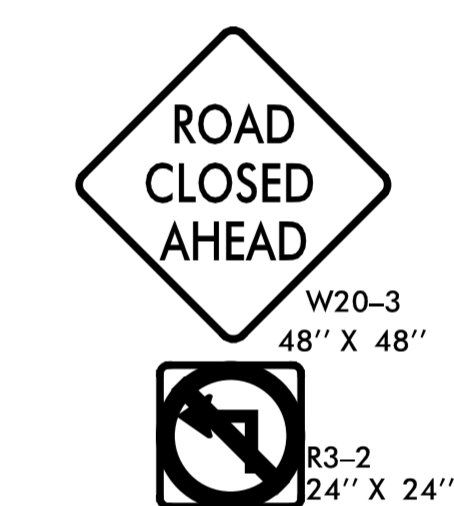
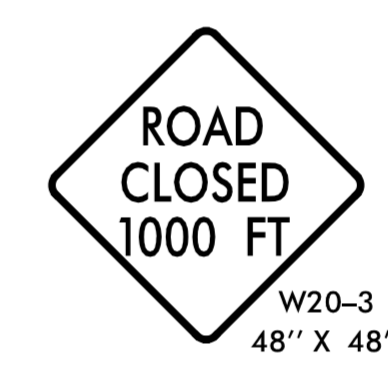
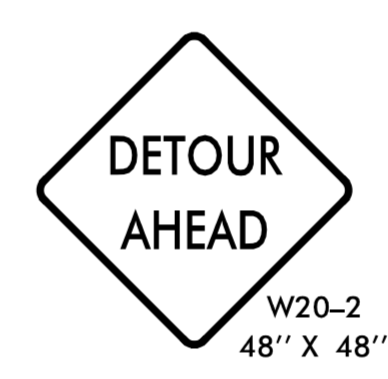
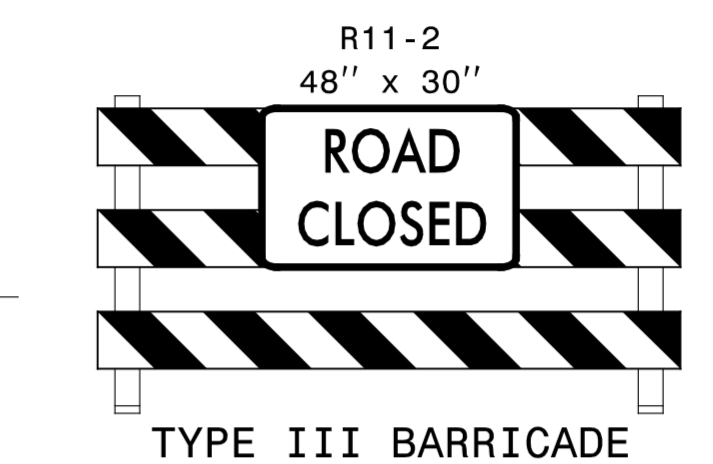
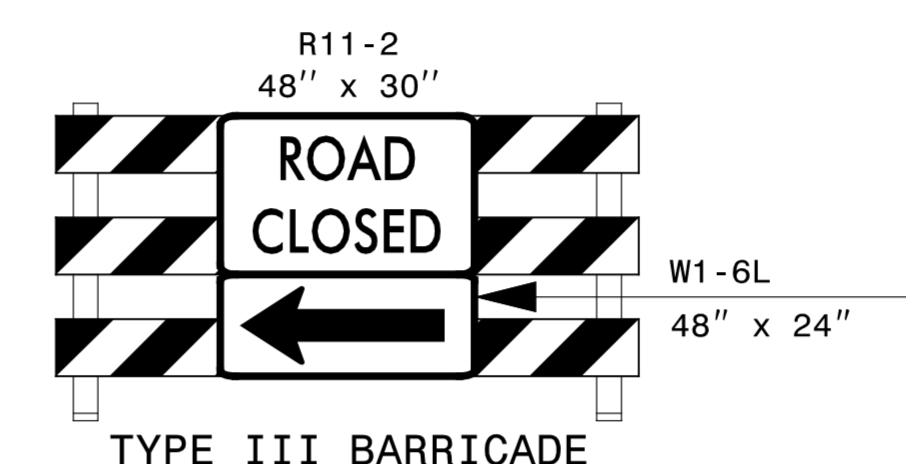
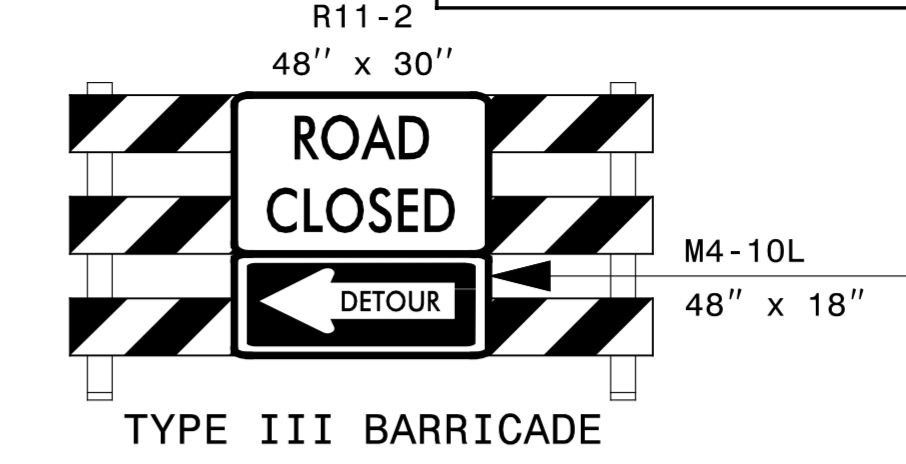
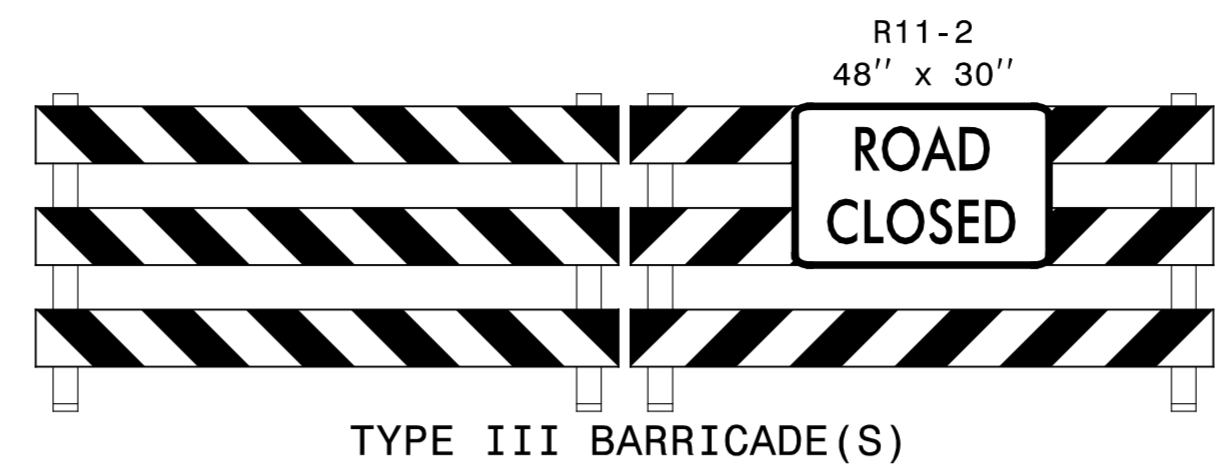
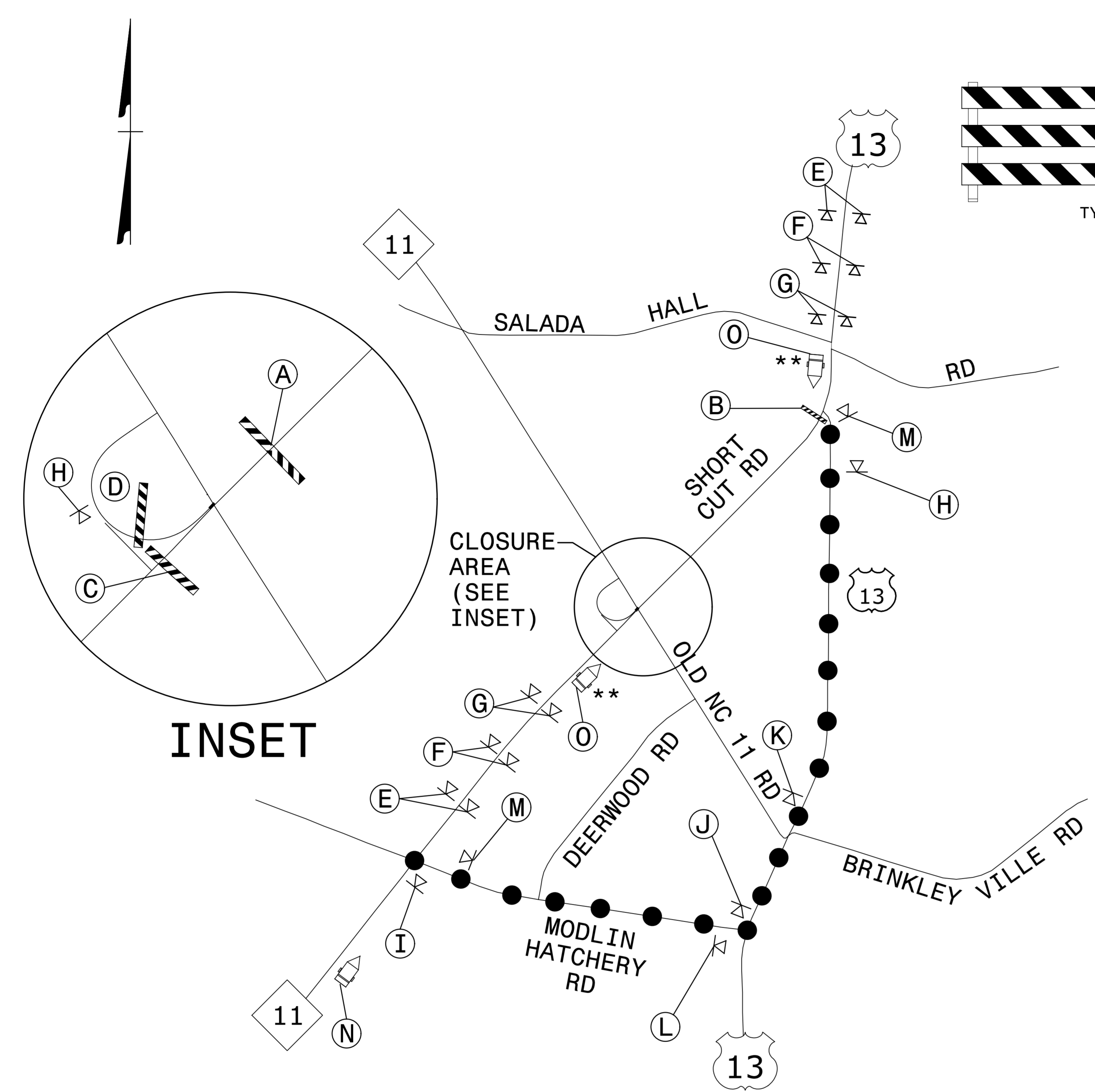
MODLIN HATCHERY ROAD (-Y1-)

MODLIN HATCHERY ROAD WILL BE CLOSED AT NC 11 FOR CONSTRUCTION OF ROADWAY APPROACHES AND STRUCTURE OVER NC 11. OFFSITE DETOUR WILL BE USED. OVERNIGHT CLOSURES OF NC 11, WITH OFFSITE DETOUR, WILL BE IMPLEMENTED FOR OVERHEAD GIRDER INSTALLATION.

LOCAL NOTE

- 1) EXISTING TRAFFIC SIGNAL AT NC 11/NC 561 INTERSECTION WILL BE ADJUSTED BY NCDOT PERSONNEL FOR USE DURING DETOUR SHOWN ON SHEET TMP-2D FOR OVERHEAD GIRDER INSTALLATION. CONTACT NCDOT FOR THIS OPERATION WHEN GIVING NOTIFICATION FOR ALTERING TRAFFIC PATTERN IN NOTE 'M'.

<p>APPROVED: <i>Michael T. Rzepka</i> 01BC3480C28049D</p> <p>DATE: 3/22/2017</p> <p style="text-align: center;">SEAL</p>			<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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** NOTE - CHANNELIZE TRAFFIC TO LEFT TURN LANE WITH DRUMS

MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

MESSAGE NO. 1	MESSAGE NO. 2
SHORTCUT ROAD CLOSED	TO US 13 NEXT RIGHT

CHANGEABLE MESSAGE SIGN

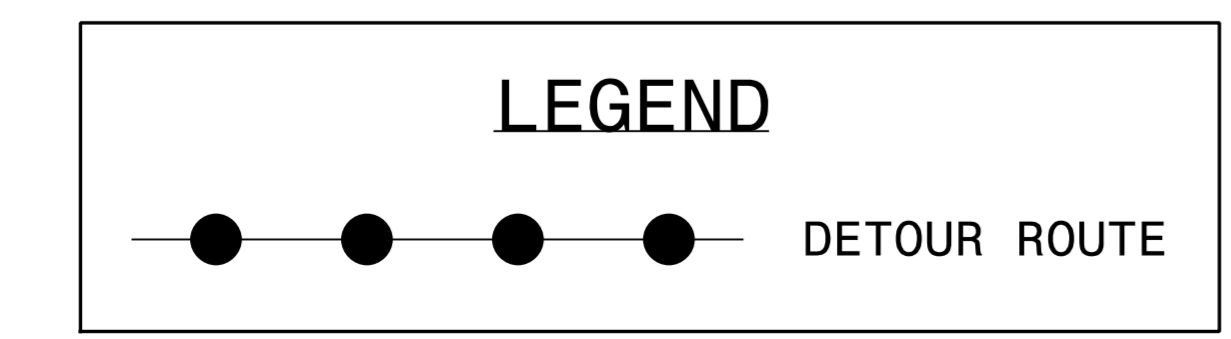
DELINEATE WITH DRUMS

MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED	ALL TRAFFIC NEXT LFT

CHANGEABLE MESSAGE SIGN

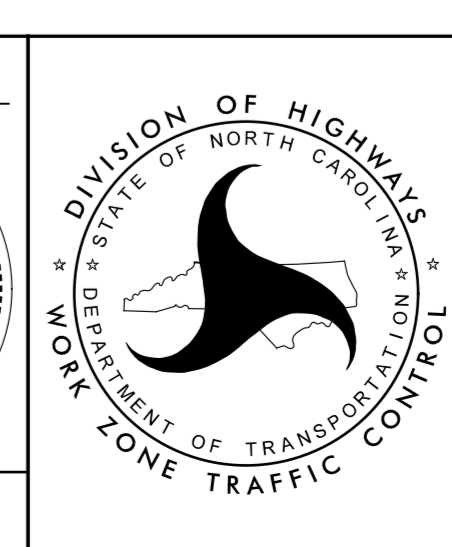
DELINEATE WITH DRUMS



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DATE: 3/22/2017

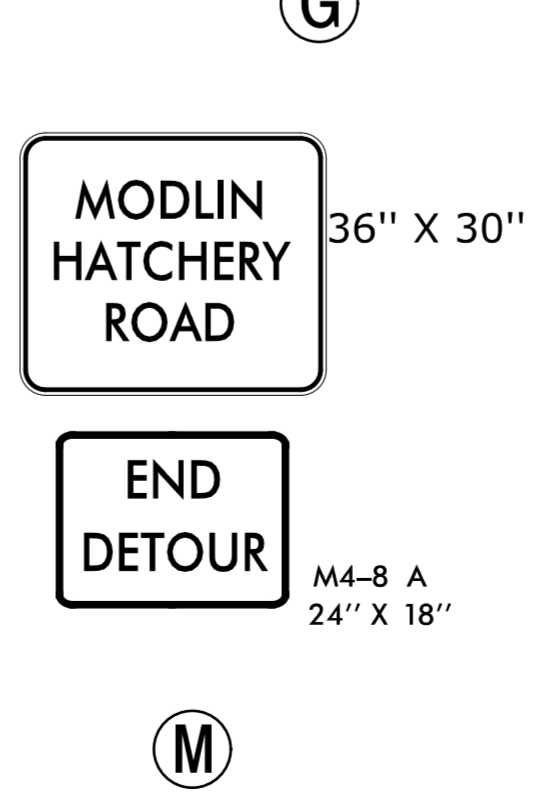
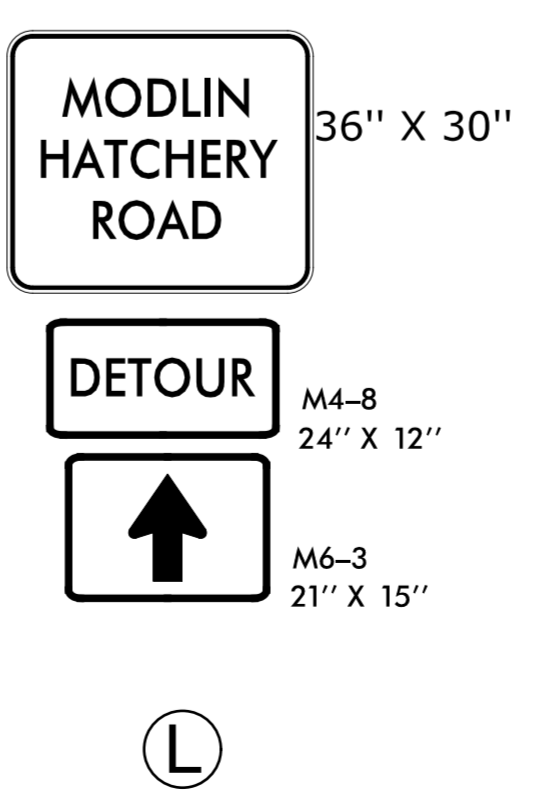
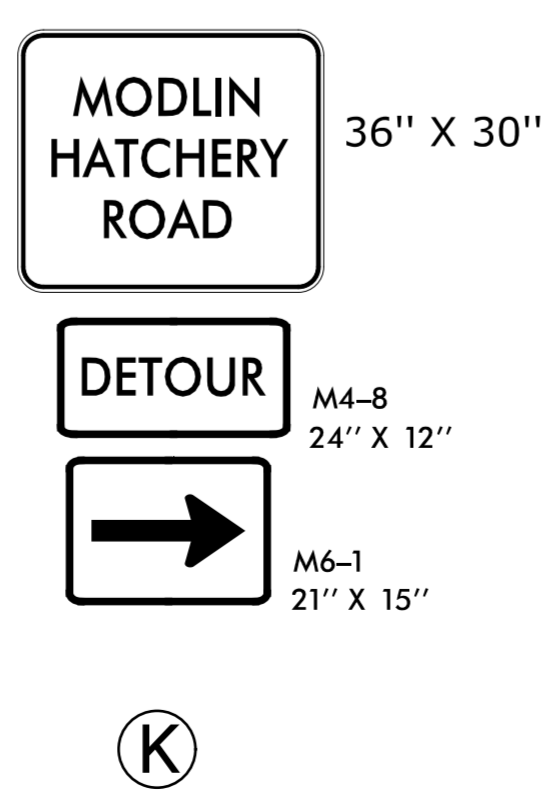
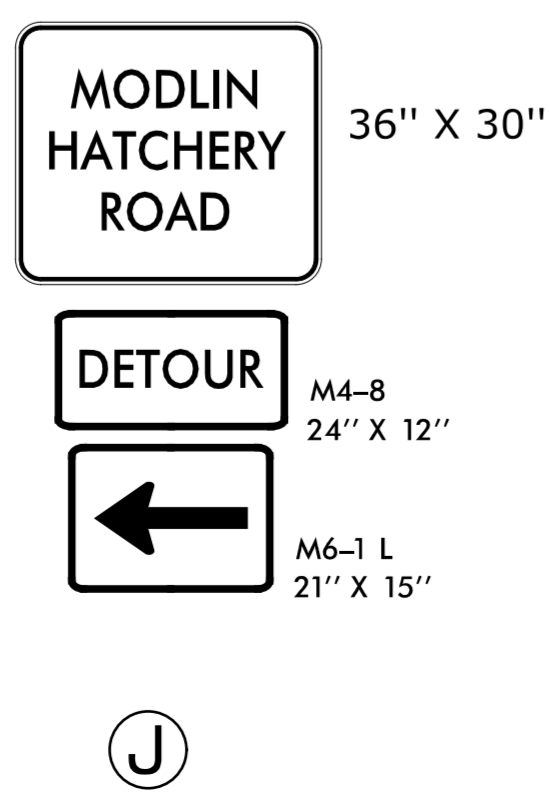
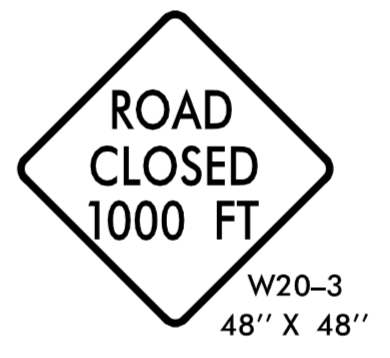
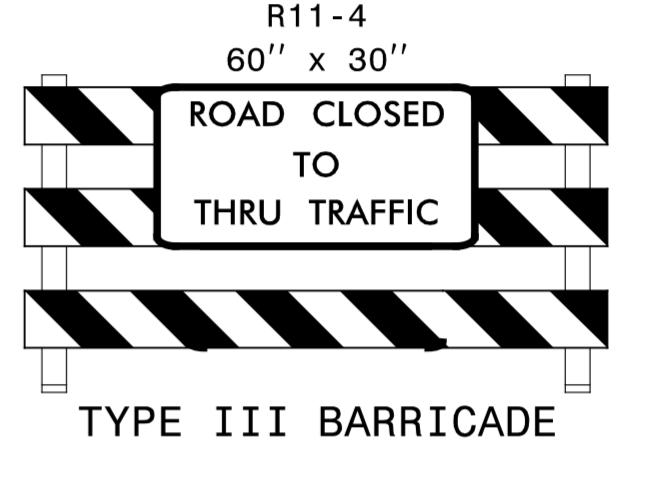
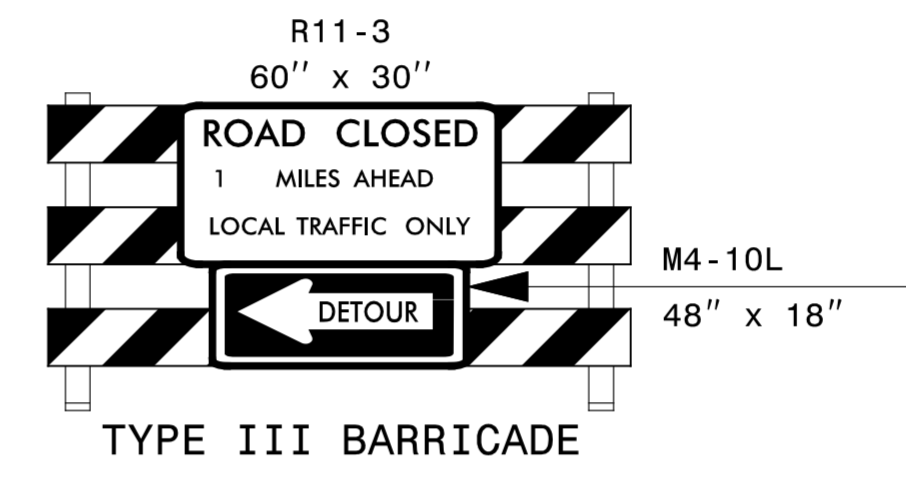
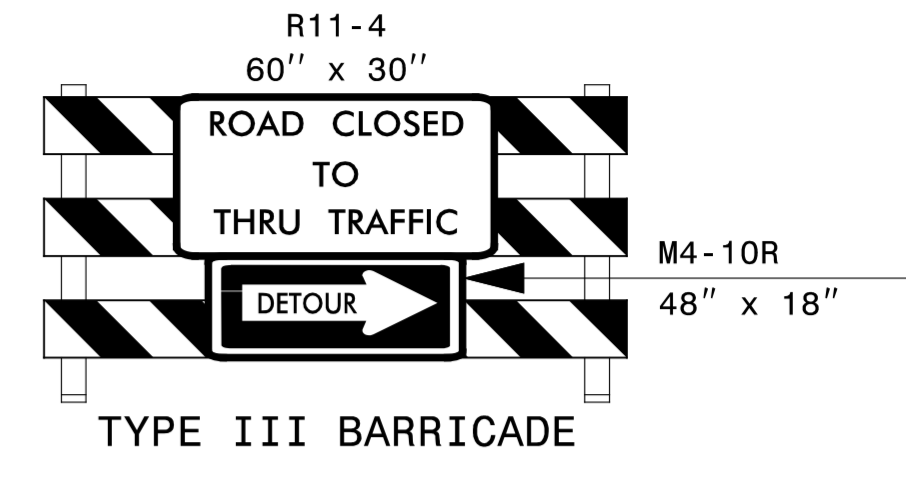
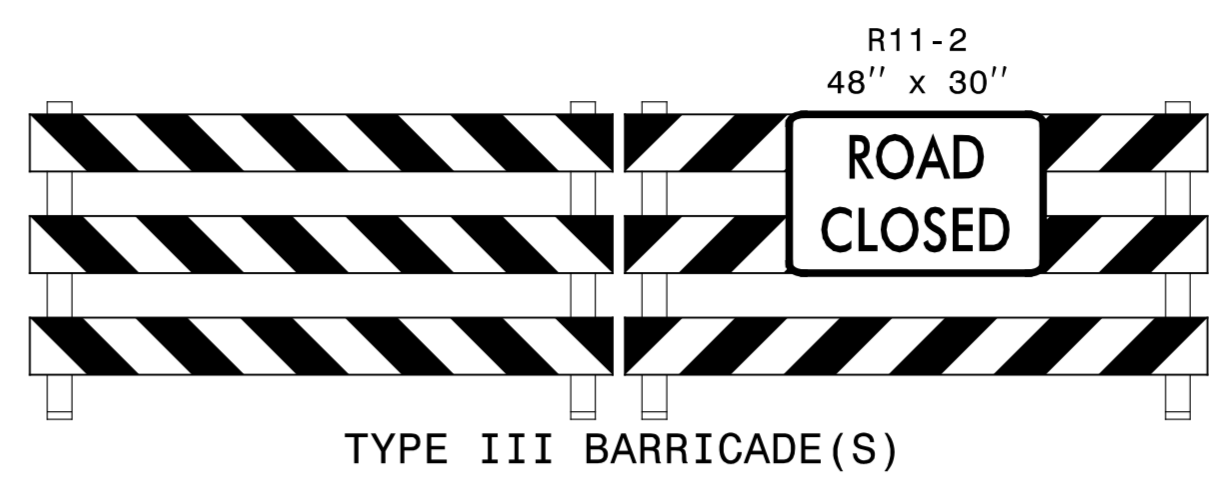
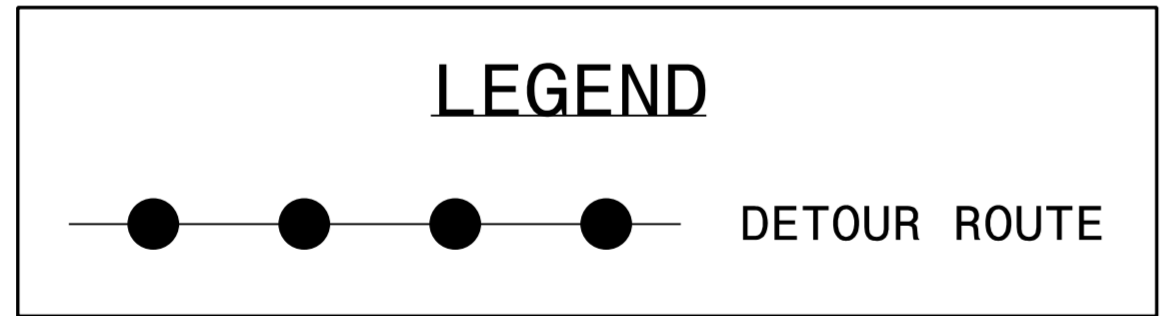
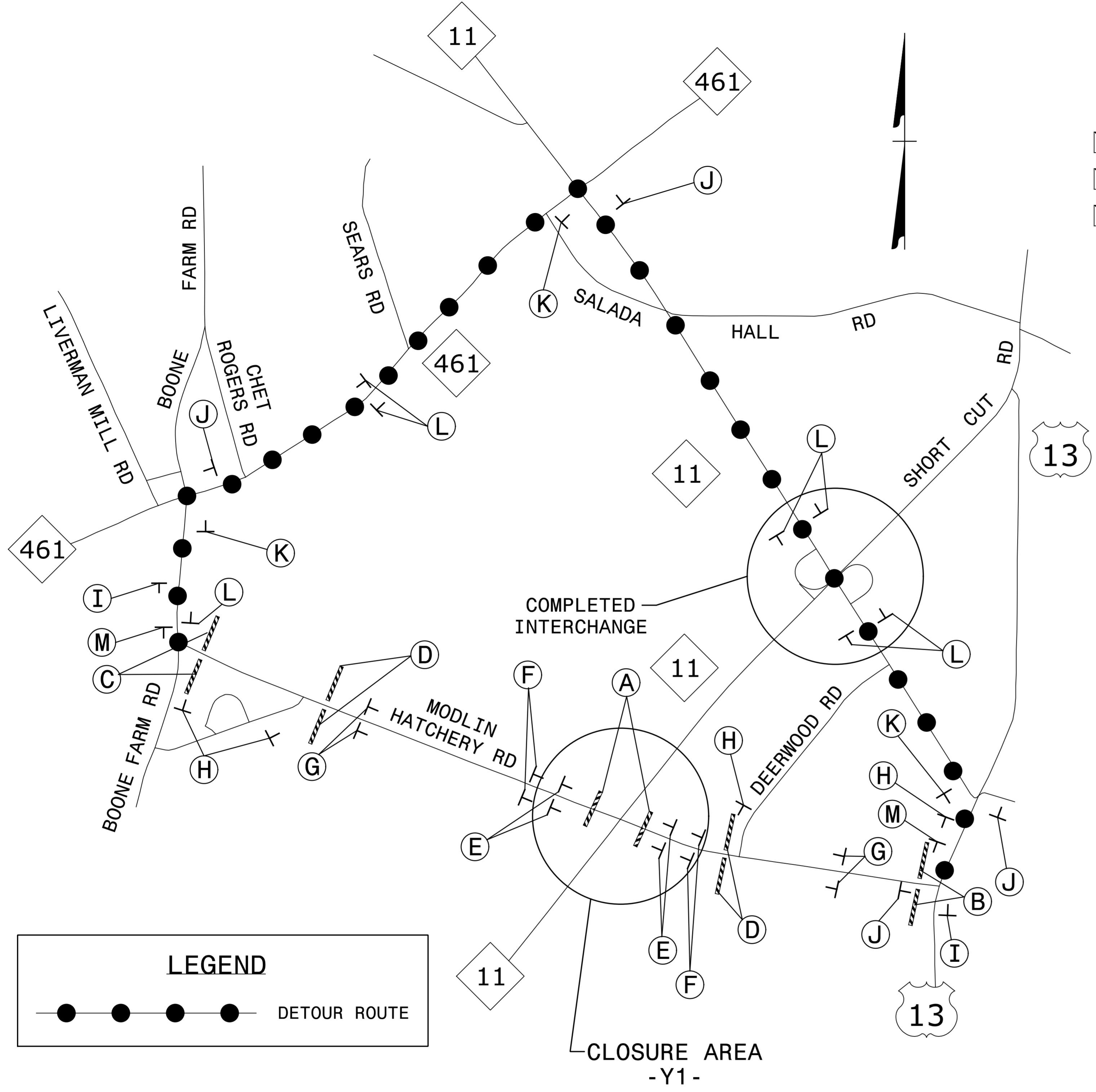
SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DETOUR FOR SHORTCUT ROAD CLOSURE (OVERNIGHT)

3/22/2017 R:\TrafficControl\TCP\5311a_tmp_y2overnite_detour_2b.dgn ICA Engineering

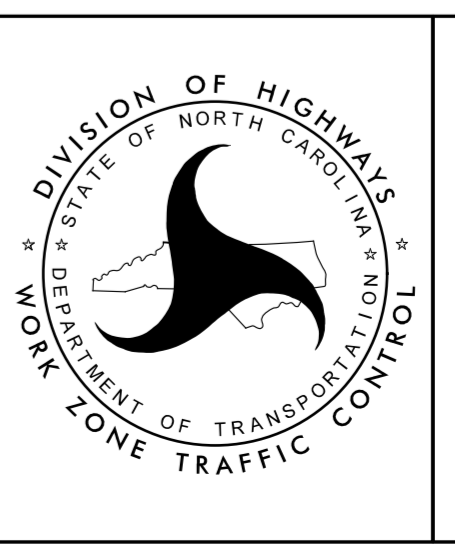


SEE SHEET TMP-2E FOR SIGN DESIGN

APPROVED: *Michael T. Rzepka*
DATE: 3/22/2017

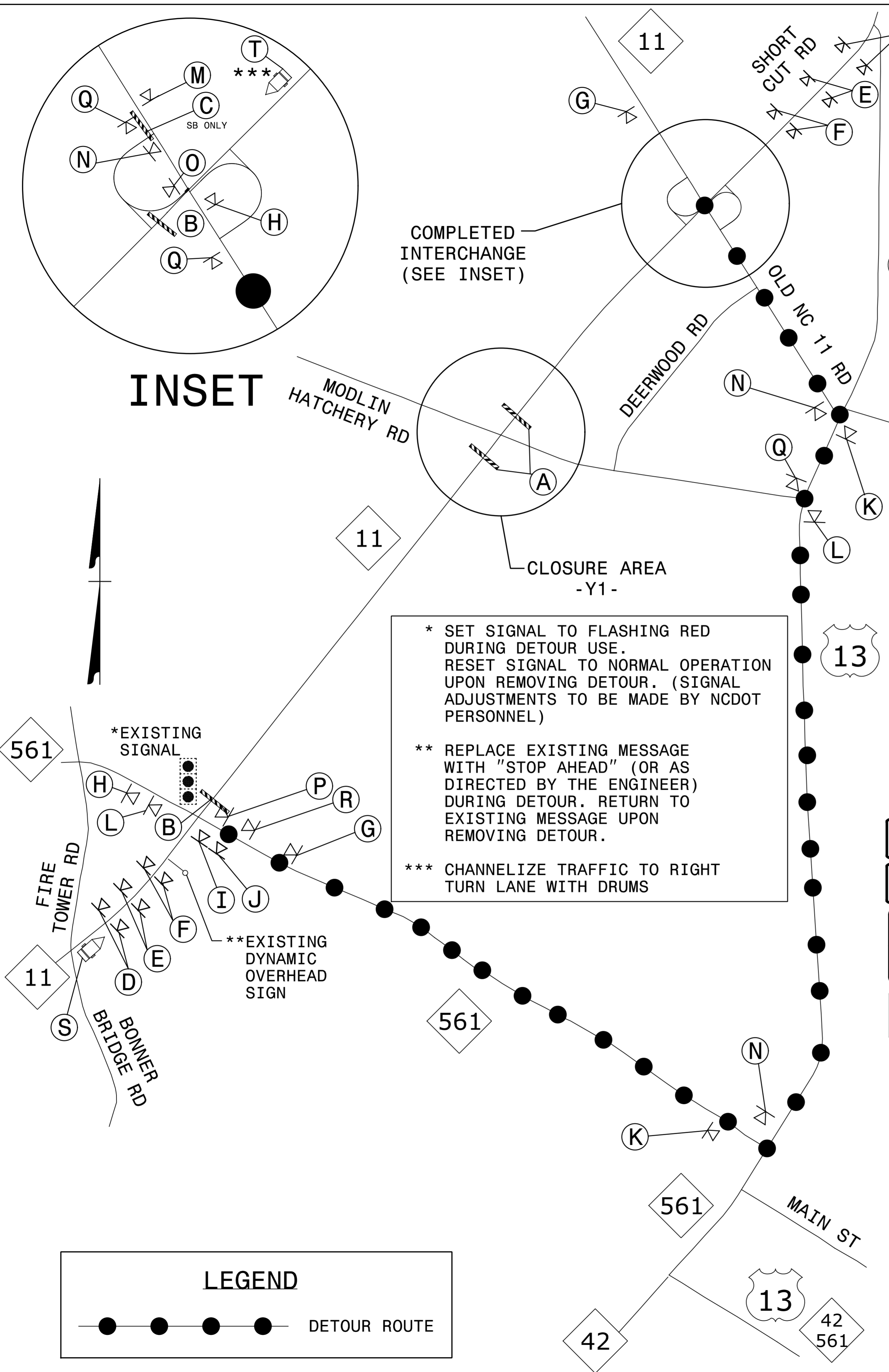
SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DETOUR FOR -Y1- MODLIN HATCHERY ROAD CLOSURE

3/22/2017 R:\Traffic\TrafficControl\TCP\5311a_tmp_y1closure_detour_2c.dgn ICA Engineering

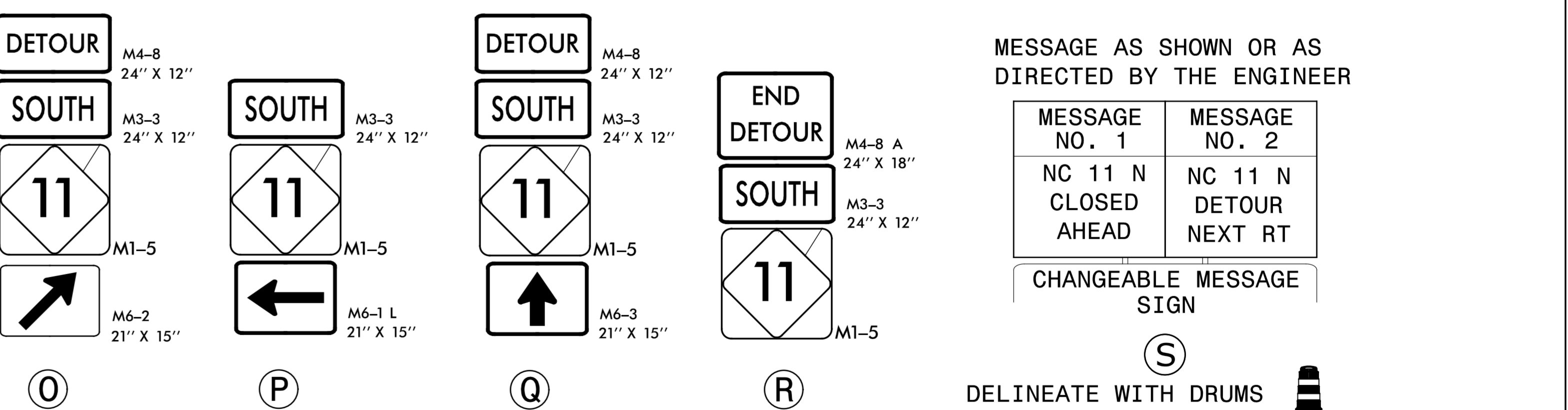
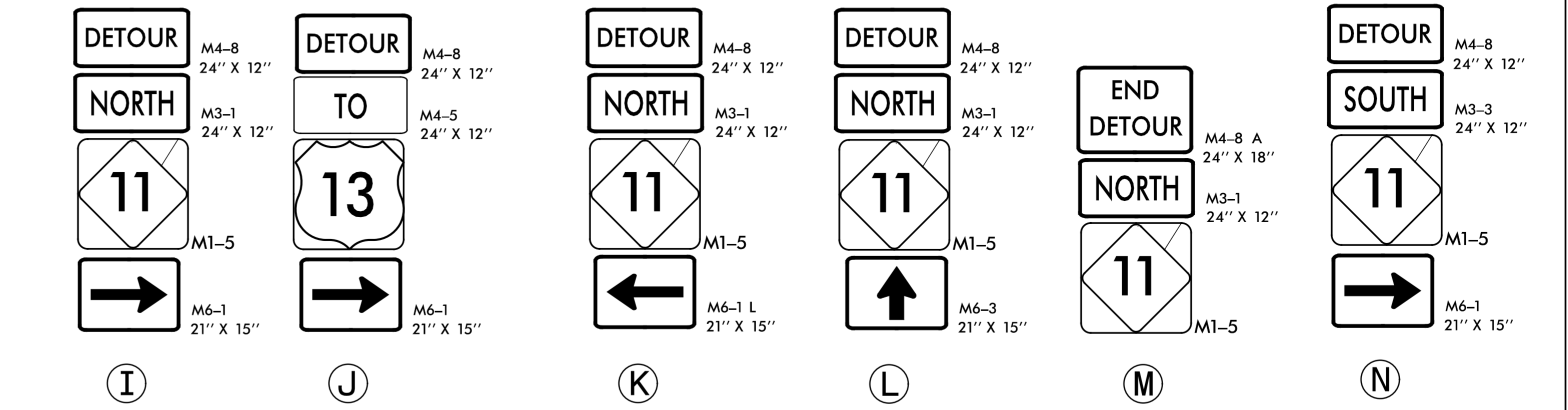
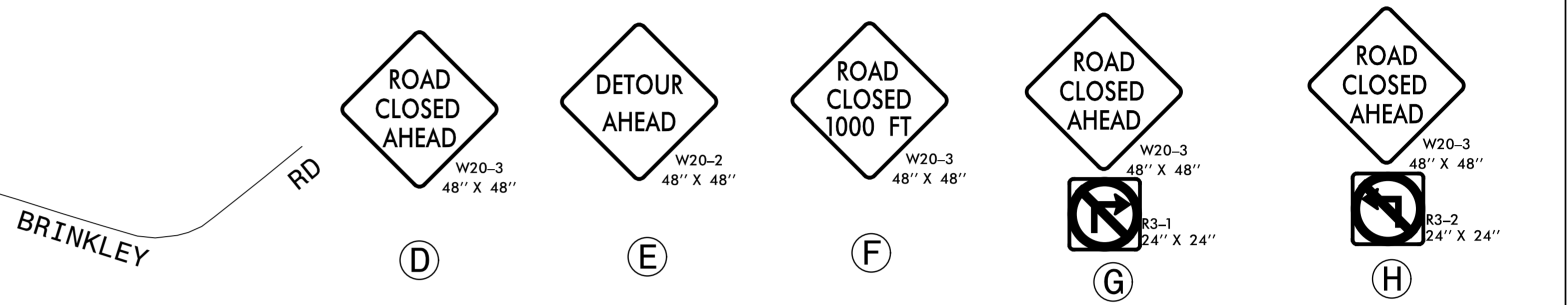
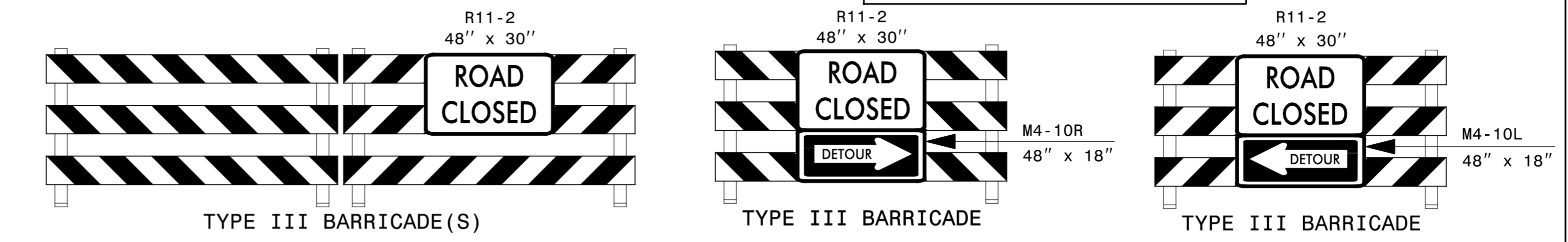
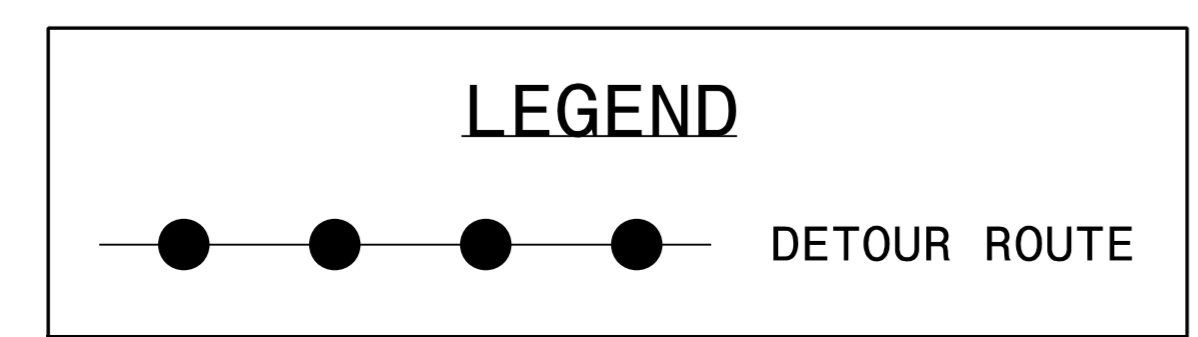


INSET

COMPLETED INTERCHANGE (SEE INSET)

CLOSURE AREA -Y1-

* SET SIGNAL TO FLASHING RED DURING DETOUR USE. RESET SIGNAL TO NORMAL OPERATION UPON REMOVING DETOUR. (SIGNAL ADJUSTMENTS TO BE MADE BY NCDOT PERSONNEL)
 ** REPLACE EXISTING MESSAGE WITH "STOP AHEAD" (OR AS DIRECTED BY THE ENGINEER) DURING DETOUR. RETURN TO EXISTING MESSAGE UPON REMOVING DETOUR.
 *** CHANNELIZE TRAFFIC TO RIGHT TURN LANE WITH DRUMS



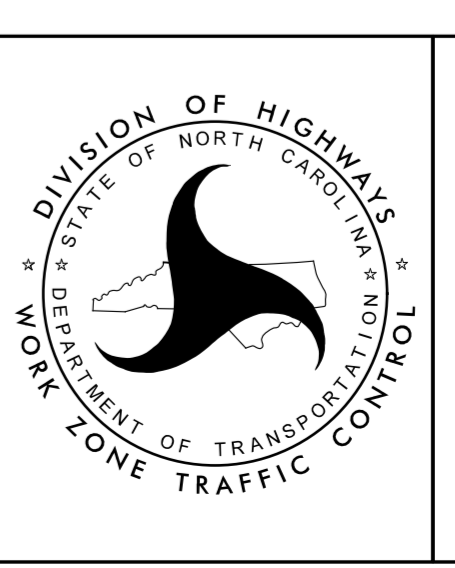
MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED	ALL TRAFFIC NEXT RT

CHANGEABLE MESSAGE SIGN

DELINEATE WITH DRUMS

APPROVED: *Michael T. Respha*
 DATE: 3/22/2017
 SEAL



DETOUR FOR NC 11 CLOSURE AT MODLIN HATCHERY ROAD (OVERNIGHT)

3/22/2017 R:\Traffic\TrafficControl\TCP\5311a_tmp_ylovernite_detour_2d.dgn ICA Engineering

SIGN NUMBER: MODLIN HATCHERY BACKG COLOR: **Fluorescent Orange**
 TYPE: **STATIONARY** COPY COLOR: **Black**
 QUANTITY: **SEE PLANS**

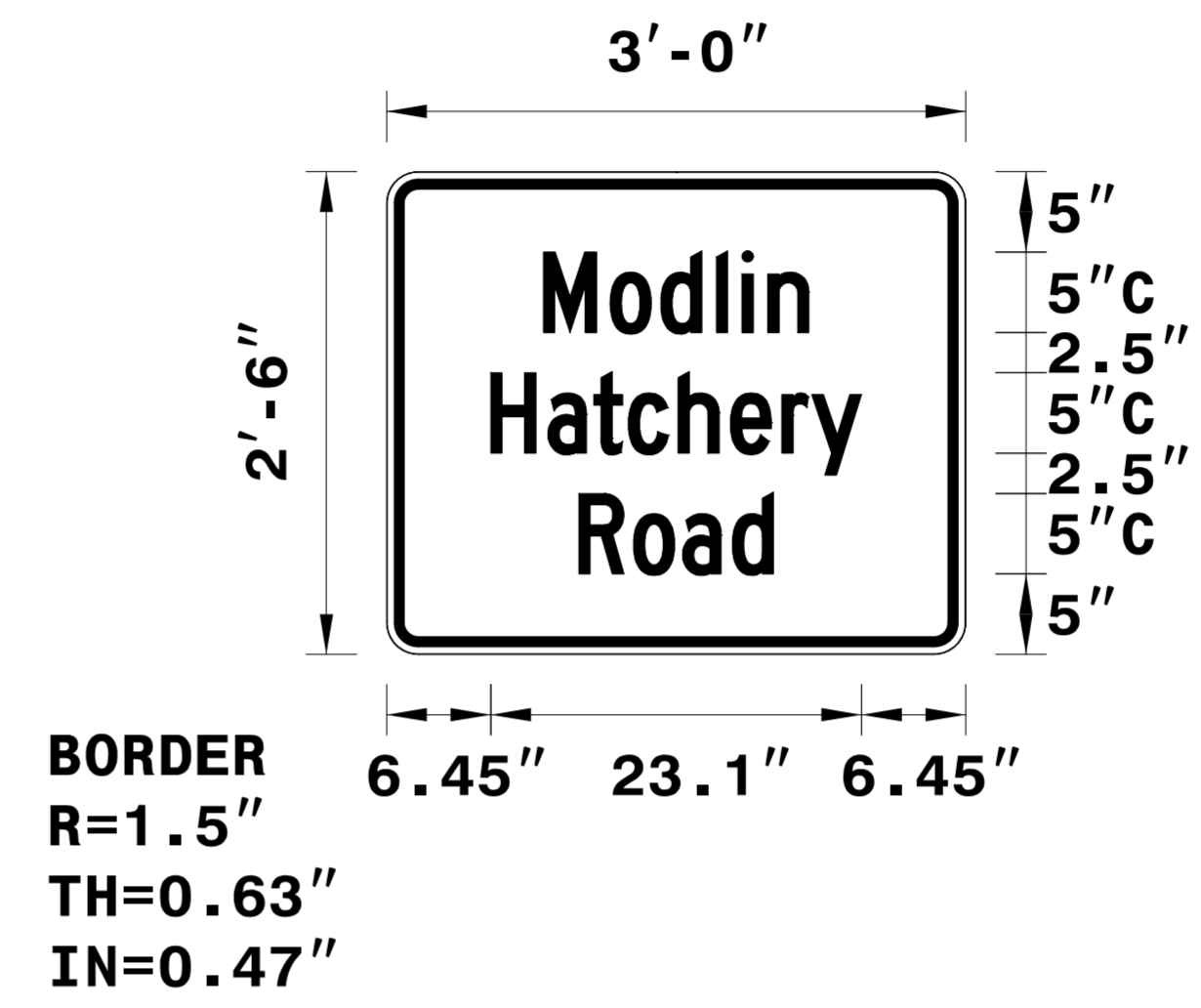
SYMBOL	X	Y	WID	HT

SIGN WIDTH: **3'-0"**
 HEIGHT: **2'-6"**
 TOTAL AREA: **7.5 Sq.Ft.**

BORDER TYPE: **INSET**
 RECESS: **0.47"**
 WIDTH: **0.63"**
 RADII: **1.5"**

NO. Z BARS: MAT'L: **0.080" (2.0 mm) ALUMINUM**
 LENGTH:

DESIGN BY: **ACP** CHECKED BY: **MTR** DATE: **Sep 12, 2016**
 PROJECT ID: **R-5311A** DIV: **1**



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	Letter Spacing										Series/Size	
	M	o	d	l	i	n					Text Length	
	9.7	4.2	3.2	3.4	1.6	1.6	2.6	9.8				C 2000
												16.5
		H	a	t	c	h	e	r	y			C 2000
	6.5	3.5	2.9	2.1	3.1	3.3	3.2	1.9	3.1	6.5		23.1
		R	o	a	d							C 2000
	12	3.4	3.1	3.1	2.6	12						12.1

FILENAME: r5311a_tmp_spec_sign_2e NORTH CAROLINA D.O.T. SIGN DETAIL

3/22/2017 R:\Traffic\TrafficControl\TCP\R5311a_tmp_spec_sign_2e.dgn ICA Engineering

APPROVED: <i>Michael T. Reppha</i> <small>DocuSigned by: Michael T. Reppha 01BC3480C28049D...</small> DATE: 3/22/2017 SEAL			MODLIN HATCHERY ROAD SIGN DESIGN
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PHASING

NOTES: - RSD REFERS TO ROADWAY STANDARD DRAWINGS
- ASPHALT CONSTRUCTION UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE FROM PHASE I THROUGH PHASE IV, STEP 2

PHASE I

STEP 1

USING RSD 1101.01 (SHEET 3 OF 3), INSTALL ALL ADVANCED WORK ZONE WARNING SIGNS.

STEP 2

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT THE FOLLOWING (SEE SHEETS TMP-4 & 5):

-DET1- STA 10+35± TO -DET1- STA 29+90± AND TIE TO EXISTING NC 11
-L2- STA 19+80± TO -L2- STA 23+91± (LT)

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), BEGIN CONSTRUCTION OF THE FOLLOWING (SEE SHEETS TMP-4 THRU TMP-6):

-L2- STA 10+00± TO -L2- STA 23+91± WEDGE & WIDEN RT
-Y2RPB- STA 10+20± TO -Y2LPB-
-Y2LPB- STA 10+75± TO -Y2LPB- STA 21+75±
-Y2- STA 51+60± TO -Y2- STA 65+40± (INCL. END BENT #2)
-Y2RPD- STA 10+15± TO -Y2LPD-
-Y2LPD- STA 11+15± TO -Y2-
TEMPORARY WIDENING -EL- STA 352+70± TO -L2- STA 11+00± (RT)
TEMPORARY WIDENING -Y2RPB- STA 10+20± TO -Y2RPB- STA 12+00± (RT)

USING RSD 1101.02 (SHEET 1 OF 15), INSTALL PORTABLE CONCRETE BARRIER (PCB) AND BEGIN CONSTRUCTION OF -Y2- END BENT #2, INCLUDING SINGLE-FACED BARRIER AND GUARDRAIL (SEE SHEET TMP-4).

PHASE II

STEP 1

USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING IN A CONTINUOUS MANNER (SEE SHEETS TMP-7 & TMP-8):

- A) REMOVE EXISTING INTERSECTION MARKINGS AND MARKERS ON -L2- AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS FOR THE -DET1- INTERSECTION AND SHIFT TRAFFIC TO TEMPORARY PATTERN SHOWN
- B) PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -DET1- AND TIE TO EXISTING NC 11 (-Y2-) AND SHIFT NC 11 (-Y2-) TRAFFIC ONTO -DET1-
- C) CLOSE EXISTING NC 11 (-Y2-) AT -L2-

DEACTIVATE AND REMOVE EXISTING FLASHING SIGNAL.

STEP 2

AWAY FROM TRAFFIC USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT -Y2- FROM -Y2- STA 35+00± TO -Y2- STA 46+25± (RT) AND TIE TO PHASE I CONSTRUCTION OF -Y2LPB- (SEE SHEETS TMP-7 & TMP-8).

COMPLETE -L2-, -Y2RPB-, -Y2LPB-, TEMPORARY WIDENING OF -EL- AND -Y2RPB-, AND END BENT #2, INCLUDING SINGLE-FACED BARRIER AND GUARDRAIL BEGUN IN PHASE I.

PHASE III

STEP 1

USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING IN A CONTINUOUS MANNER (SEE SHEETS TMP-9 & TMP-10):

- A. RESET PHASE I PCB TO PHASE III LOCATION ALONG -L2-
- B. REMOVE EXISTING MARKINGS AND MARKERS, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L2- FOR THE -Y2RPB- INTERSECTION AND SHIFT TRAFFIC TO TEMPORARY PATTERN ON NC 11 (-L2-) AS SHOWN
- C. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y2RPB-, -Y2LPB- AND -Y2- AND TIE TO TEMPORARY MARKINGS ON -Y2- AND SHIFT TRAFFIC TO A TEMPORARY 2-LANE/2-WAY PATTERN AS SHOWN
- D. PLACE TEMPORARY PAVEMENT MARKINGS AND OPEN -Y2LPB-
- E. CLOSE -DET1-

STEP 2

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT THE FOLLOWING (SEE SHEETS TMP-9 & TMP-10):

-L2- STA 15+40± TO -L2- STA 20+30± (LT)
-Y2- STA 35+00± TO -Y2- STA 46+25± (LT)
-Y2- STA 46+25± TO -Y2- STA 51+60±

BEHIND BARRIER, CONSTRUCT -Y2- STRUCTURE (SEE SHEET TMP-9). UTILIZE OVERNIGHT ROAD CLOSURE WITH OFF-SITE DETOUR FOR GIRDER INSTALLATION (SEE SHEETS TMP-2, NOTE 'C' AND SHEET TMP-2B FOR DETOUR ROUTE AND DETOUR SIGNING).

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), REMOVE -DET1-.

COMPLETE REMAINING CONSTRUCTION BEGUN IN PHASE I.

PHASE IV

STEP 1

USING RSD 1101.02 (SHEET 1 OF 15), REMOVE TEMPORARY WIDENING OF -L2- & -Y2RPB-.

USING RSD 1101.02 (SHEET 1 OF 15), REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TEMPORARY MARKINGS IN FINAL PATTERN ON -L2-, -Y2-, -Y2RPB-, -Y2LPB-, -Y2RPD- AND -Y2LPD- (SEE PAVEMENT MARKING PLANS). SHIFT TRAFFIC TO FINAL PATTERN ON -L2- (NORTH OF BRIDGE), -Y2-, -Y2RPB- AND -Y2LPB-. OPEN -Y2- (SOUTH OF BRIDGE), -Y2RPD- AND -Y2LPD- TO FINAL PATTERN.

STEP 2

USING RSD 1101.03, CLOSE ACCESS FROM -Y1- (MODLIN HATCHERY ROAD) TO NC 11 (-EL-) AND DETOUR TRAFFIC OFF-SITE (SEE SHEETS TMP-11 & 12 AND TMP-2C FOR DETOUR ROUTE AND SIGNING).

USING RSD 1101.02 (SHEET 1 OF 15), RESTRIPE NC 11 TO SHIFT LANES AND INSTALL PCB ALONG NC 11 (-EL-).

AWAY FROM TRAFFIC, CONSTRUCT -Y1- STA 13+75± TO -Y1- STA 36+85±, INCLUDING -Y1- STRUCTURE (SEE SHEETS TMP-11 & TMP-12). UTILIZE OVERNIGHT ROAD CLOSURE WITH OFF-SITE DETOUR FOR GIRDER INSTALLATION (SEE SHEETS TMP-2, NOTE 'C' & TMP-2D FOR DETOUR ROUTE AND SIGNING, AND LOCAL NOTE 1).

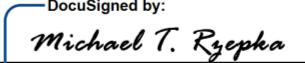
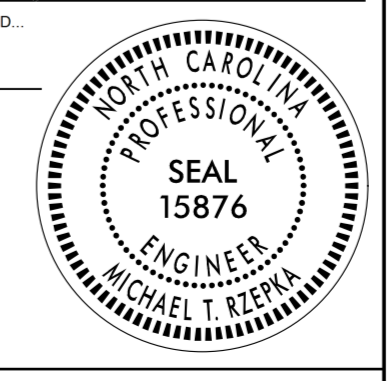
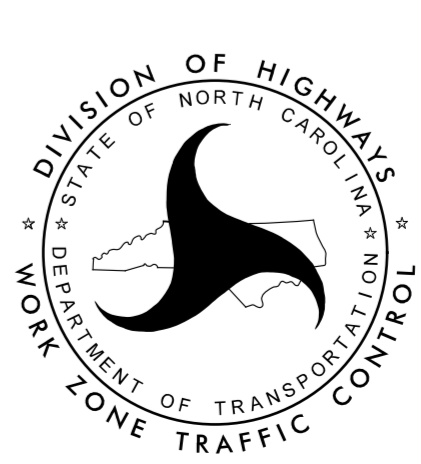
REOPEN -Y1- IN FINAL PATTERN AND REMOVE DETOUR.

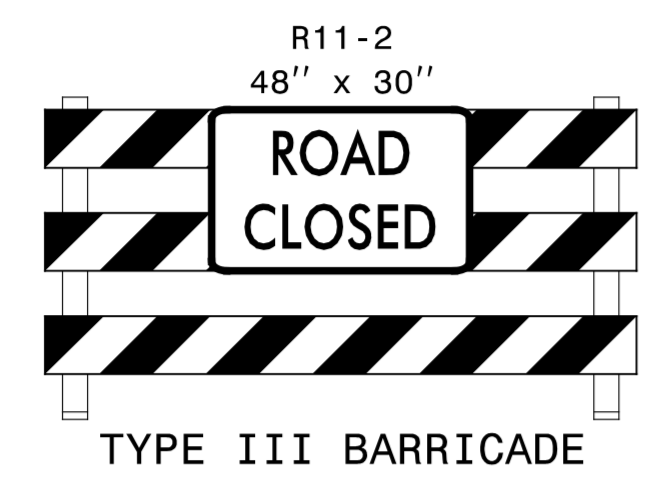
USING RSD 1101.02 (SHEET 1 OF 15), REMOVE PCB ALONG -EL- AT -Y1- AND REMOVE ANY REMAINING EXISTING PAVEMENT AT ALONG -EL- AT -Y1- (SEE ROADWAY PLANS).

STEP 3

USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT MONOLITHIC ISLANDS ON -Y2- AND LOOPS B AND D, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS ON -L2-, -EL-, -Y1-, -Y2-, AND ALL RAMPS AND LOOPS. REMOVE ALL TRAFFIC CONTROL DEVICES.

3/22/2017
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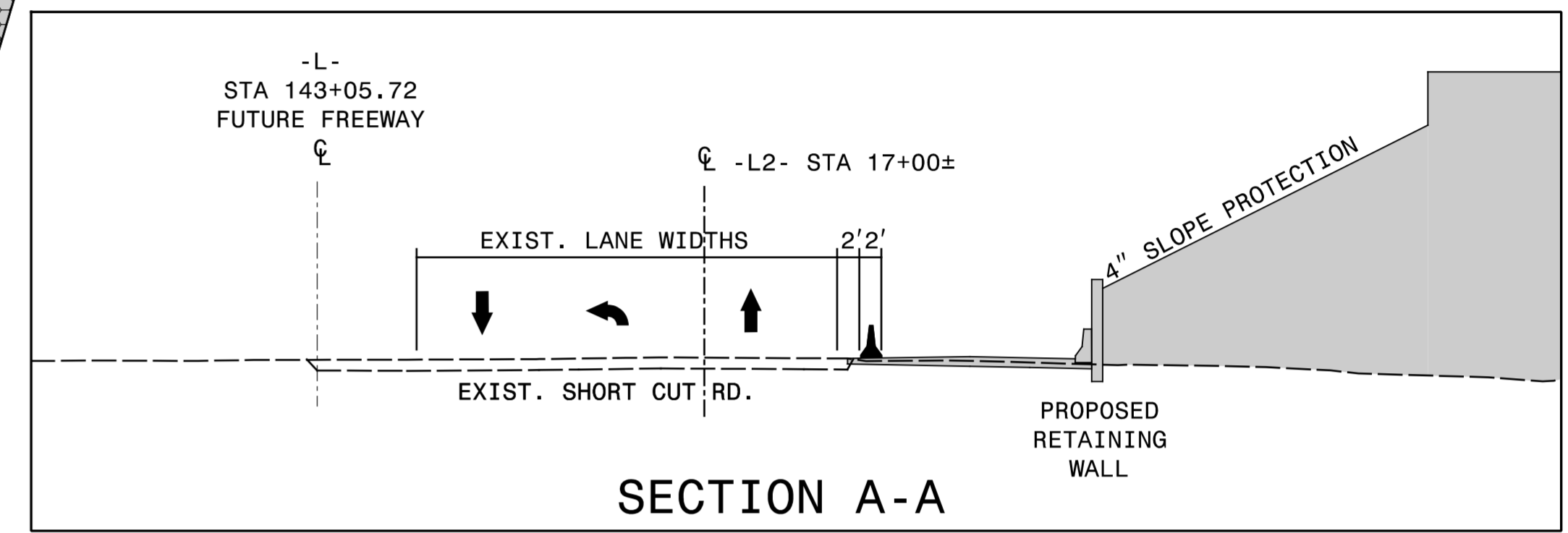
END TEMP. WIDENING
-Y2RPB- STA 12+00±

15+00 (-Y2LPB-)

20+00 (-Y2LPB-)
-Y2LPB- STA 21+75±

MATCHLINE -Y2- STA 45+00
SEE SHEET TMP-5

45+00 (-Y2-)
25+00 (-DET1-)



MATCHLINE -L2- STA 11+00
SEE THIS SHEET

BEGIN TEMP. WIDENING
-Y2RPB- STA 10+20±

-Y2LPB- STA 10+75±

-L2-

-DET1- STA 29+90±

END CONSTRUCTION
-L2- STA 23+91±

-L2- STA 19+80±

SHORTCUT RD

END BENT #2

-Y2- STA 51+60±

-L2- STA 13+50±
BEGIN PCB
6' OFFSET

-L2- STA 14+00±
PCB 2' OFFSET

-Y2LPD- STA 11+15±

-L2- STA 19+20±
END PCB
2' OFFSET

-Y2RPD- STA 10+15±

-EL- POT STA 355+00 LB=
-L2- PC STA 10+00 LA

319+00
(-EL-)

MATCHLINE -L2- STA 11+00
SEE THIS SHEET

-EL-

-L2-

BEGIN TEMP. WIDENING
-EL- STA 352+70±

END TEMP. WIDENING
-L2- STA 11+00±

OVERLAY EXISTING ROAD
-EL- STA 310+00 TO 355+00

-EL- STA 318+20±

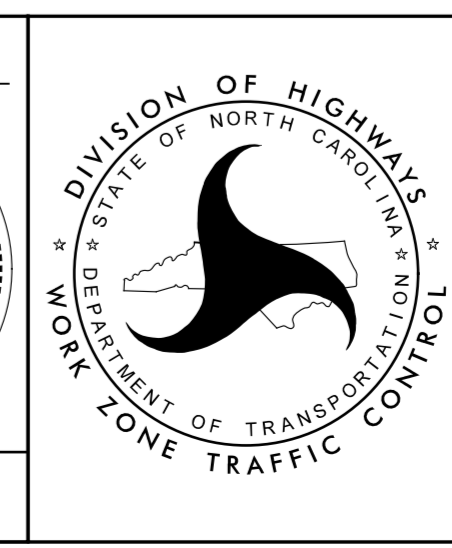
MATCHLINE -Y2- STA 54+00
SEE SHEET TMP-6

MATCHLINE -Y2RPD- STA 12+25
SEE SHEET TMP-6

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DATE: 3/22/2017

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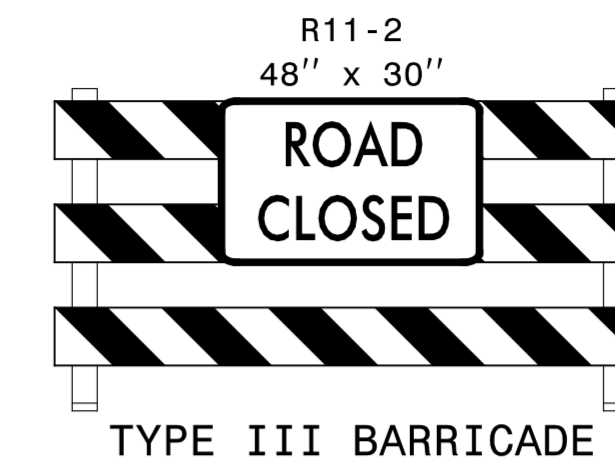
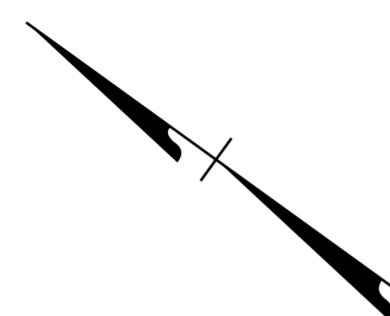
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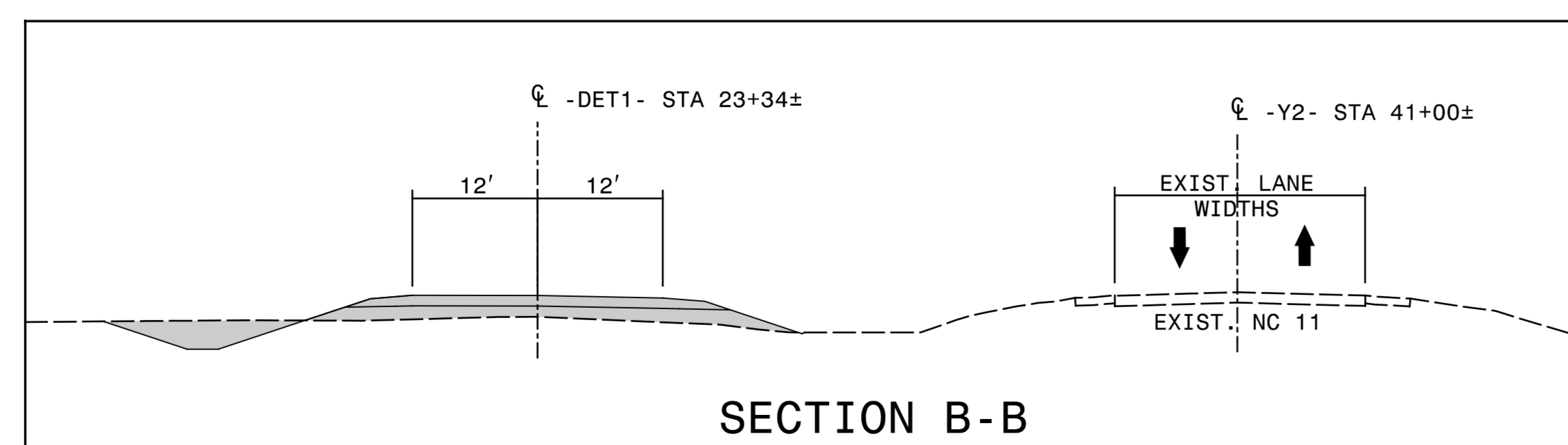
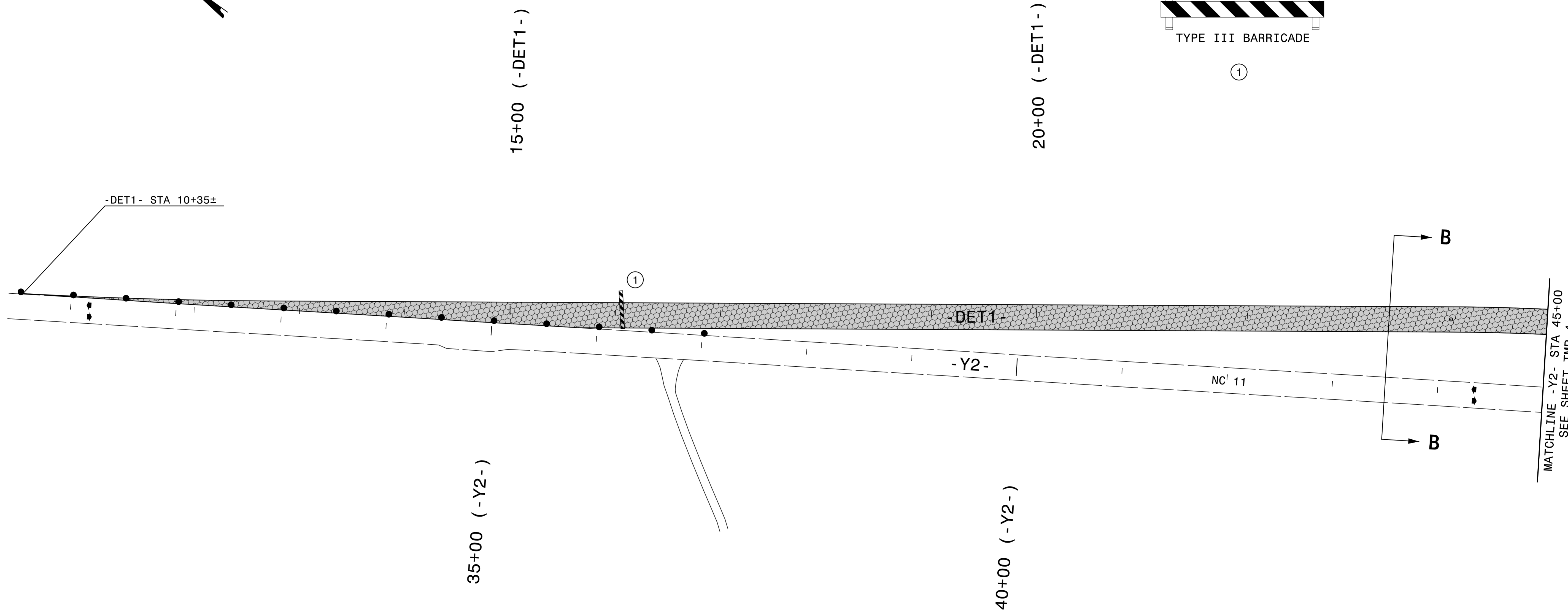
PHASE I DETAIL

DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

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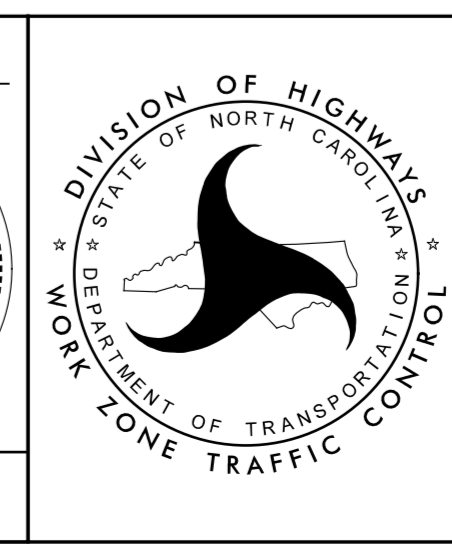


SECTION B-B

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DATE: 3/22/2017

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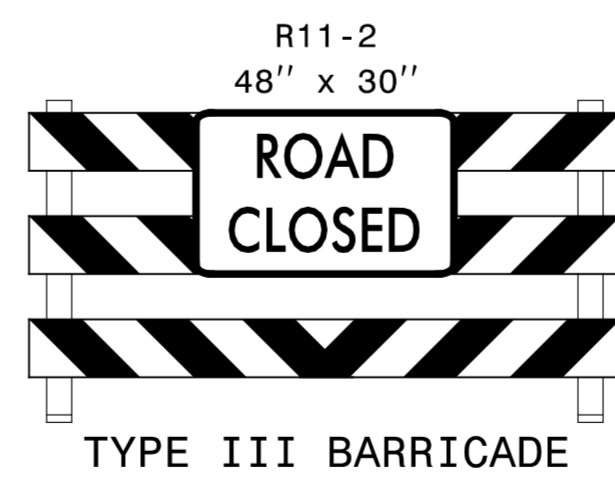
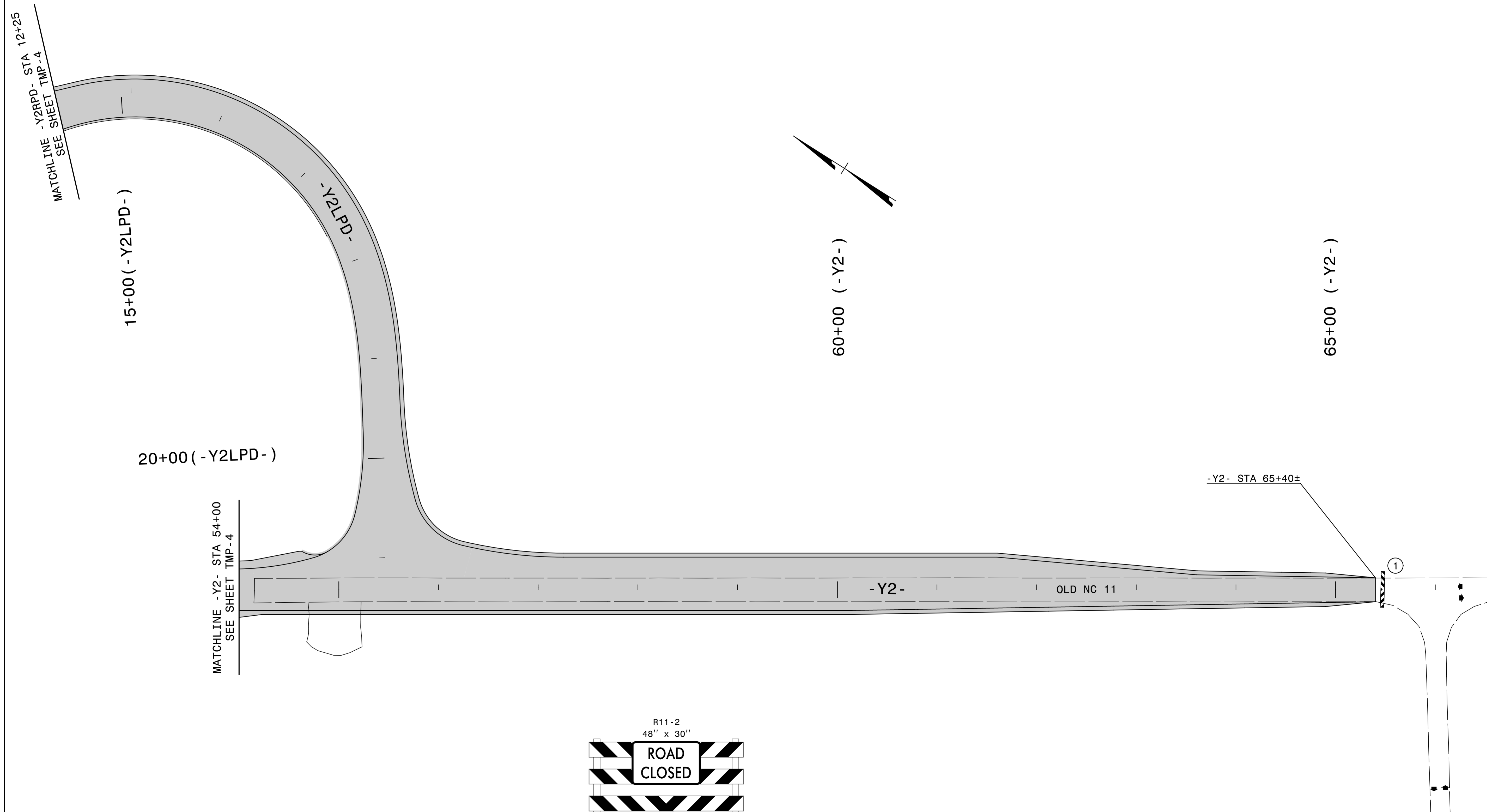


PHASE I DETAIL

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3/22/2017
 R:\Traffic\TrafficControl\TCP\F5311a_tmp_pi_dtl.dgn
 ICA Engineering



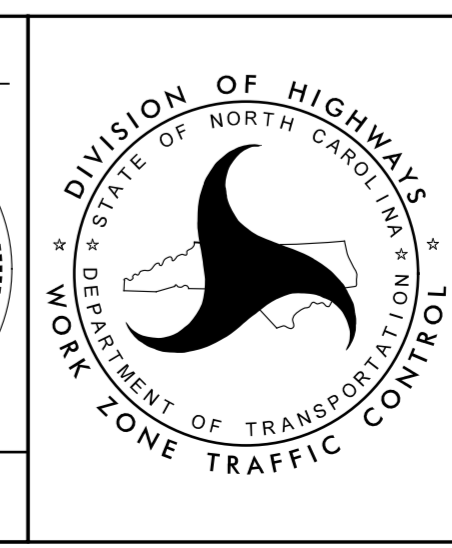
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DocuSigned by: Michael T. Ryepka
 01BC3480C28049D

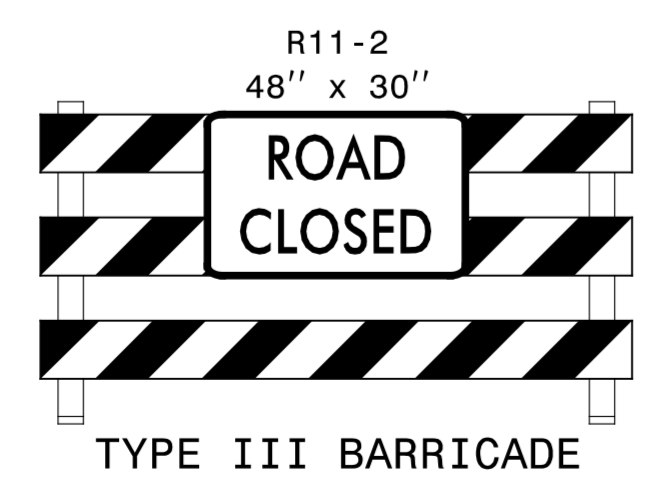
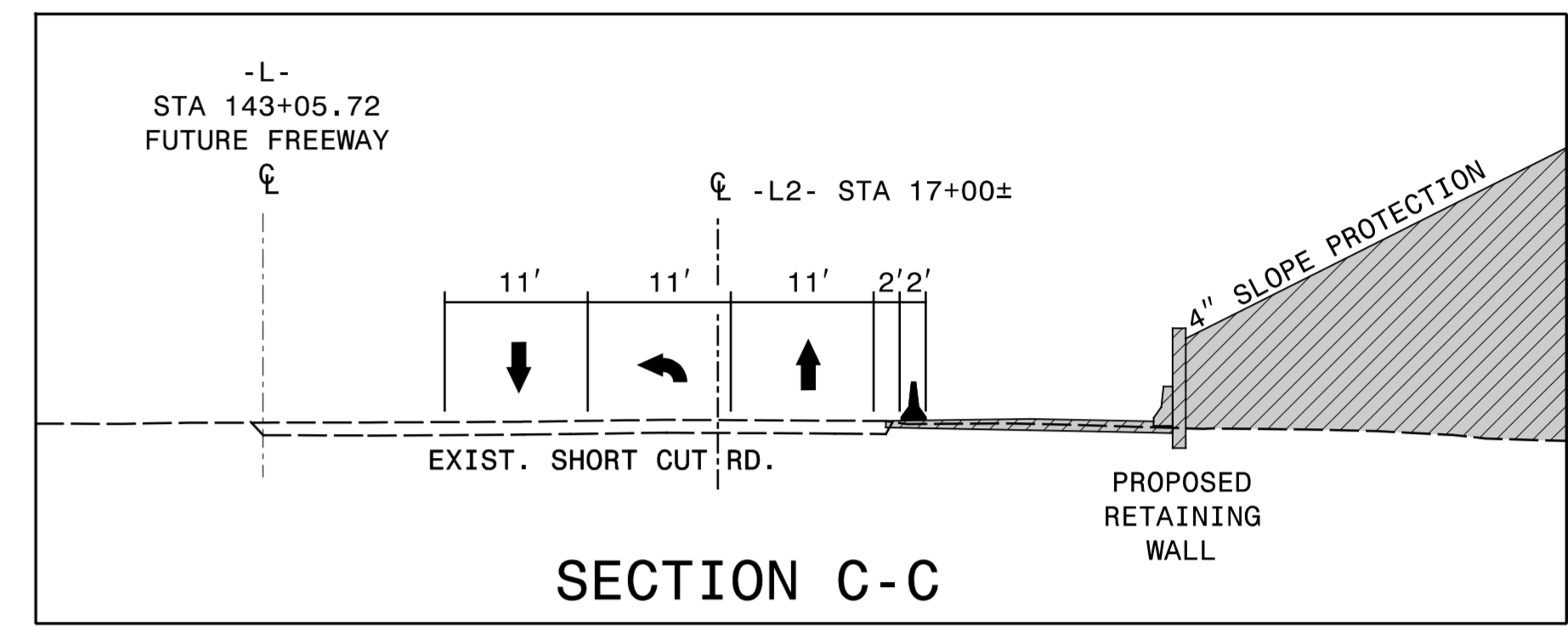
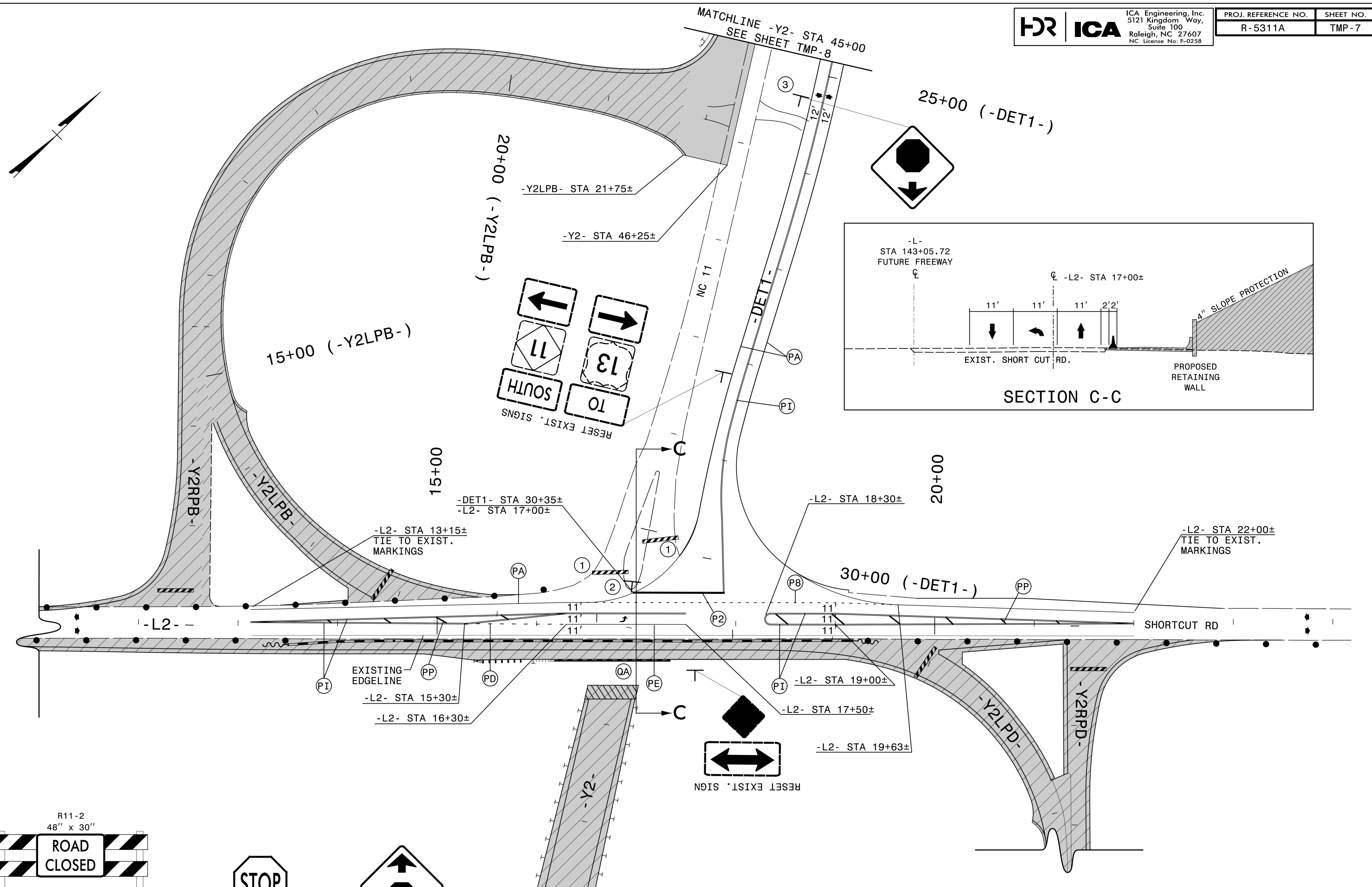
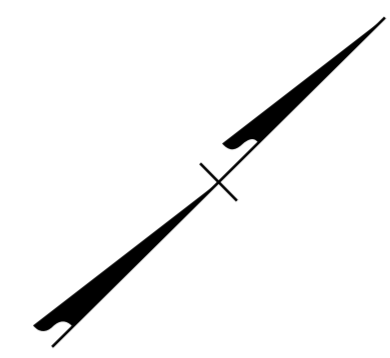
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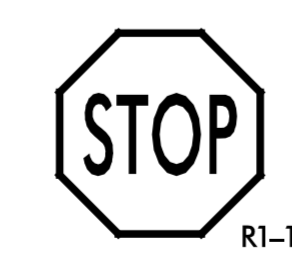
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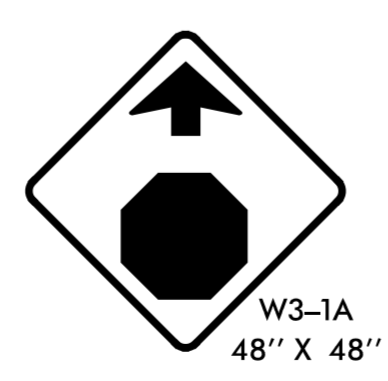
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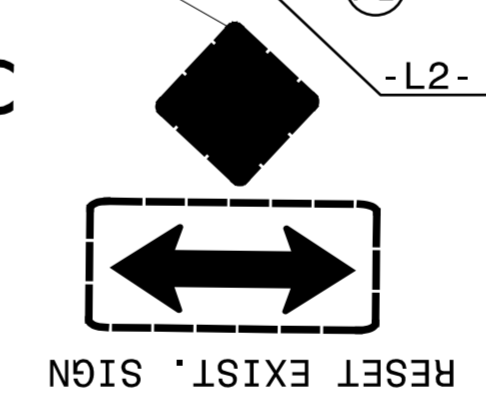
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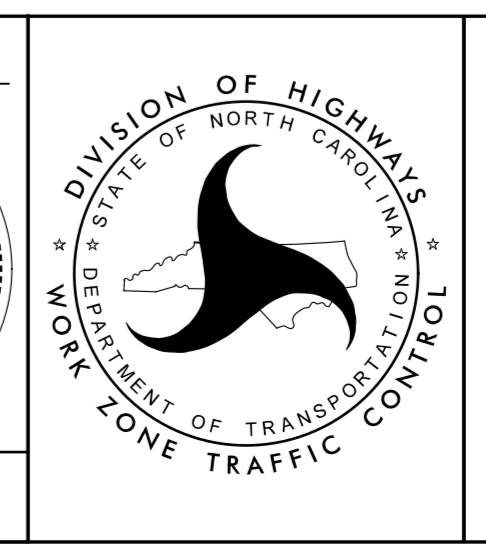
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DATE: 3/22/2017

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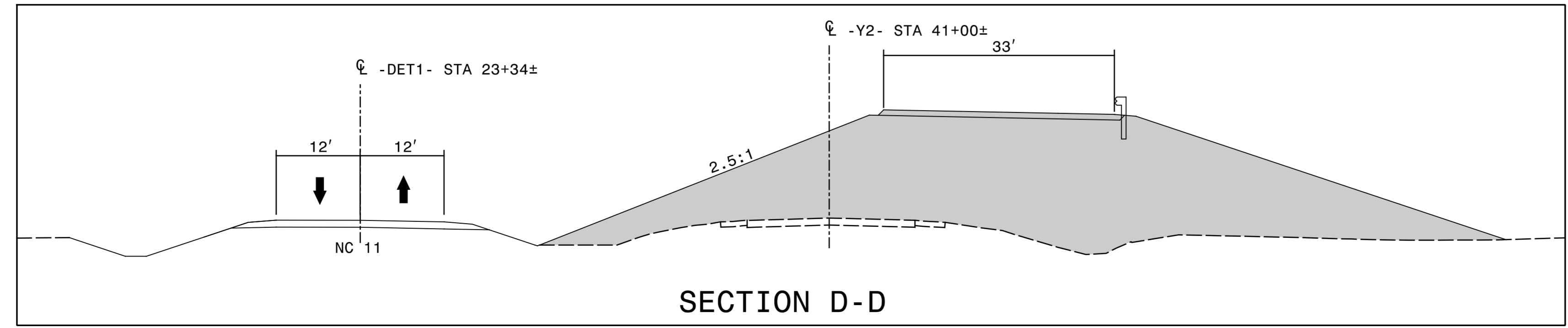
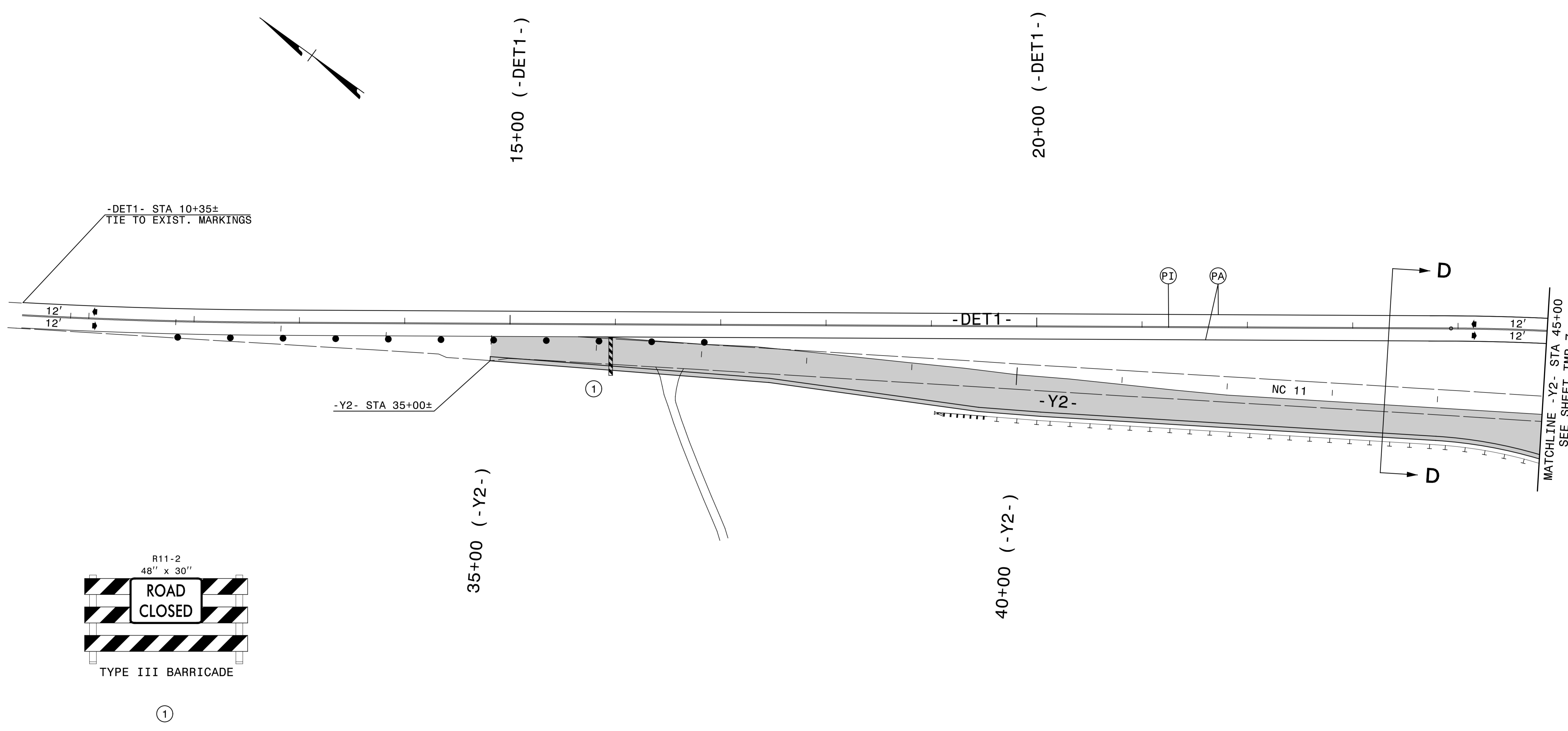
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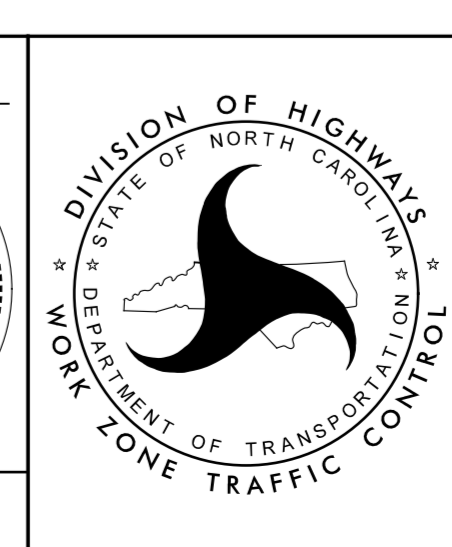
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
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WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

3/22/2017
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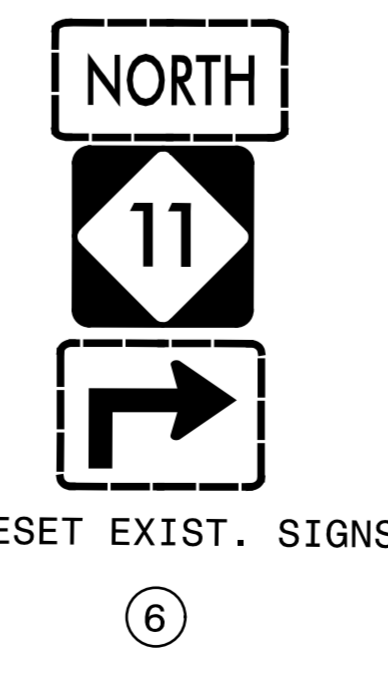
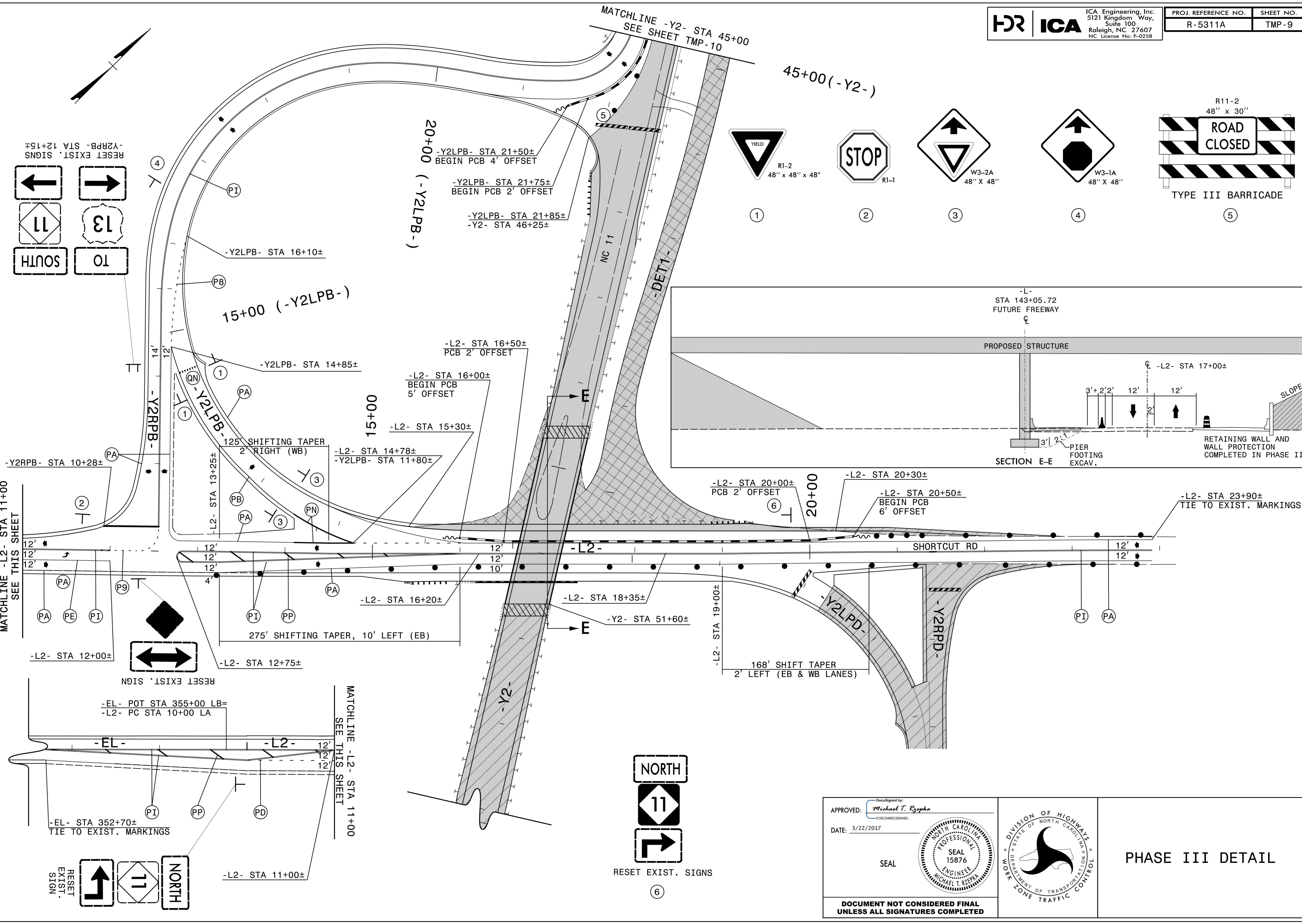
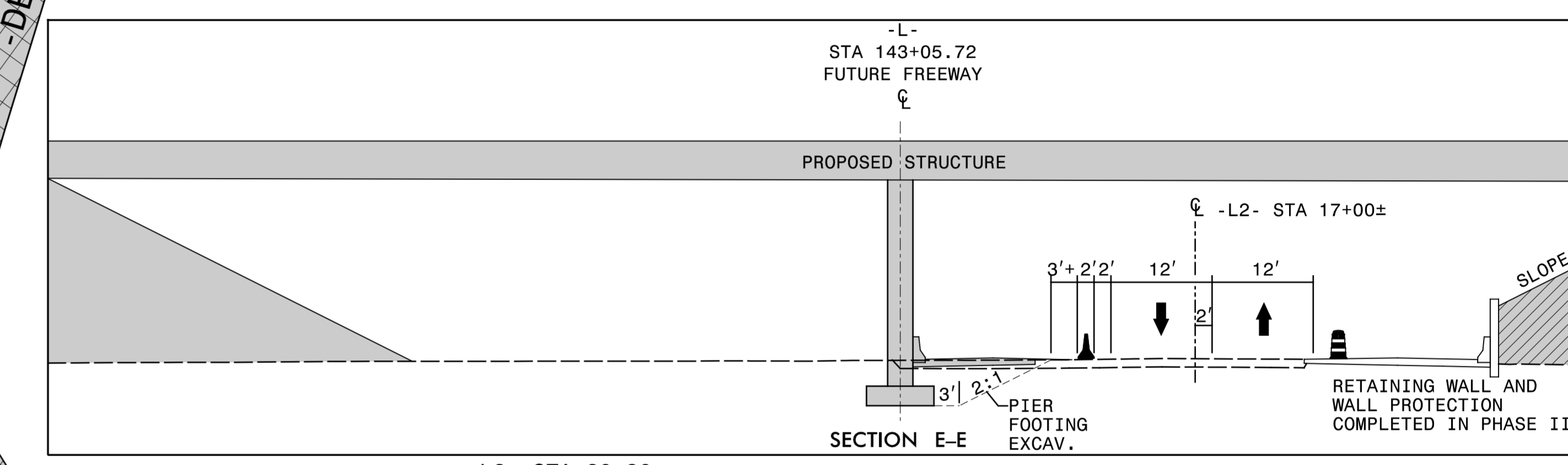
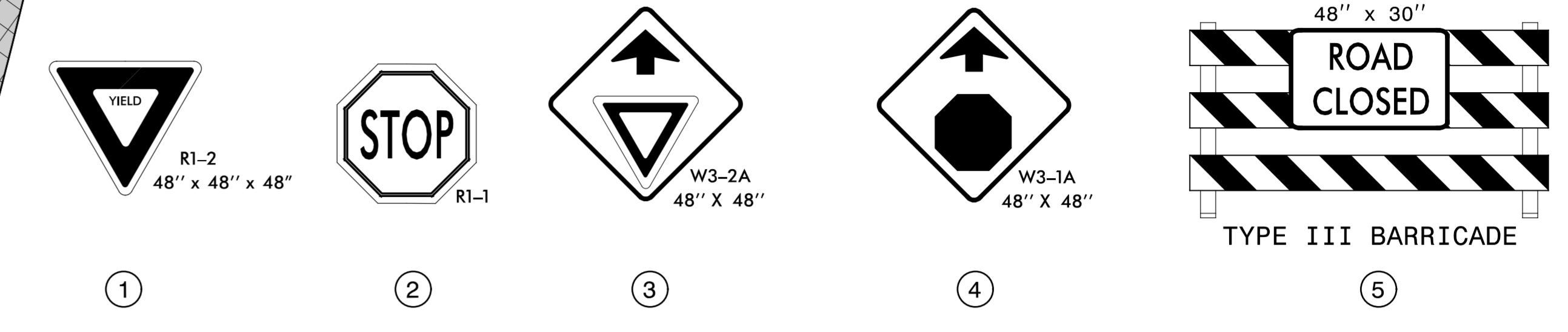
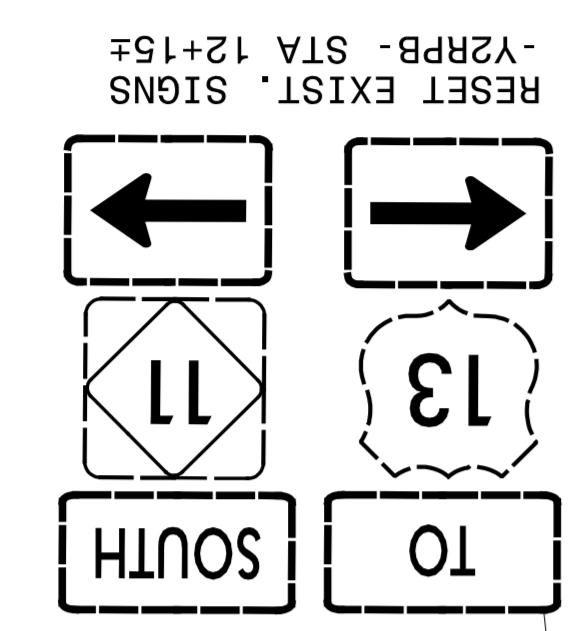


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PHASE II DETAIL

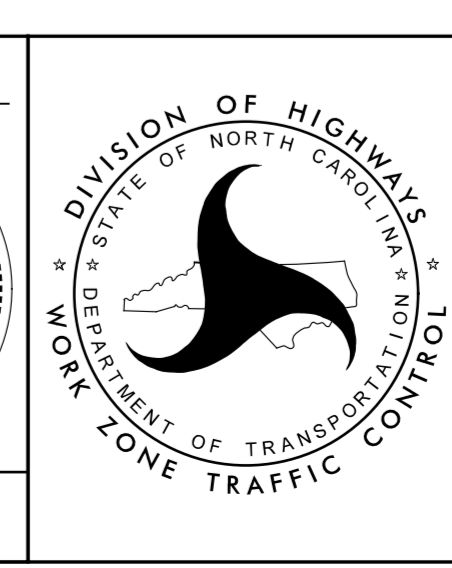
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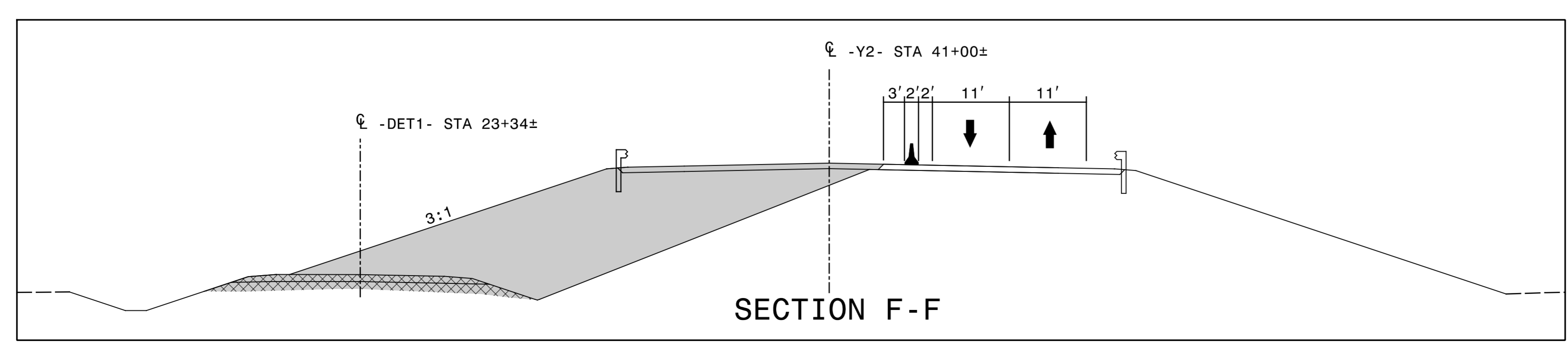
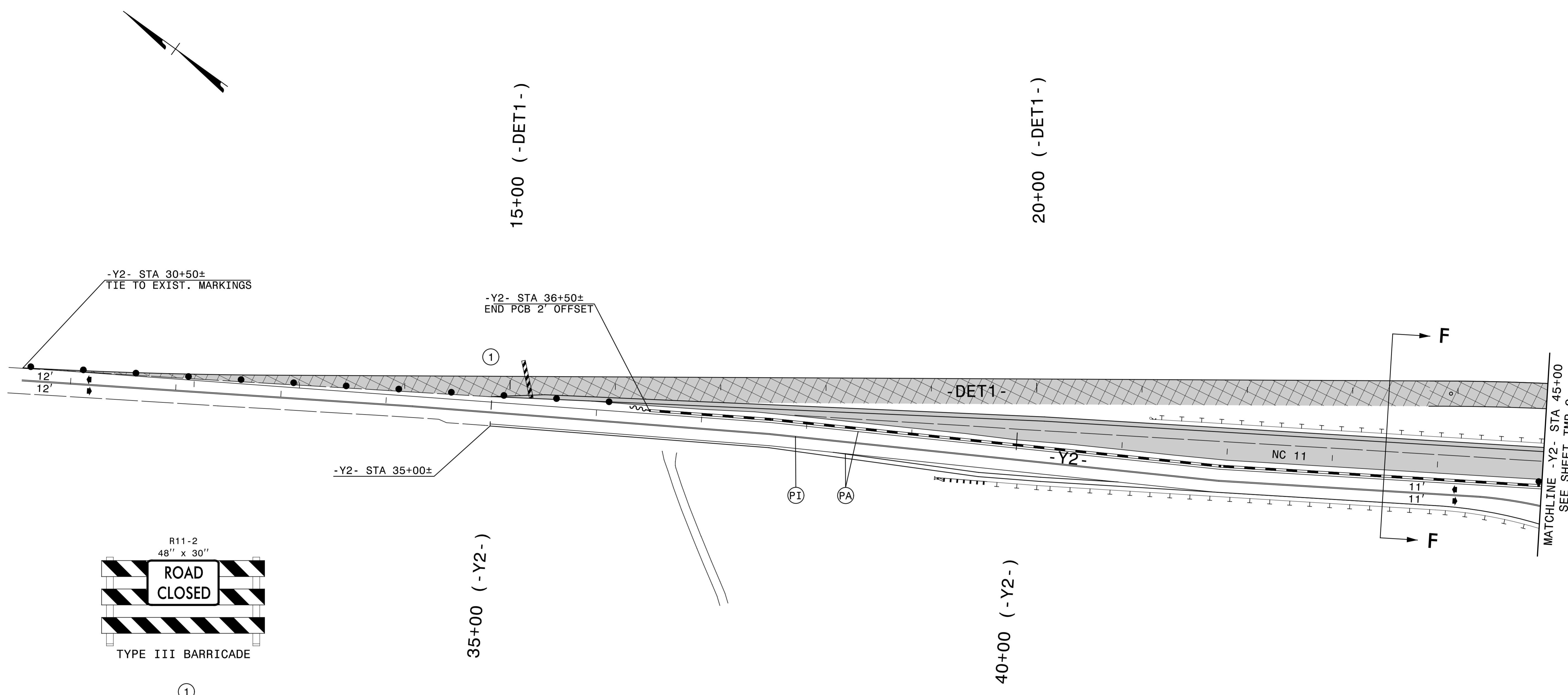
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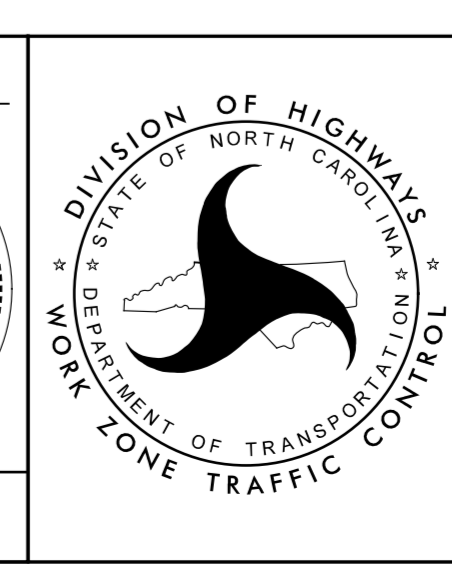
PHASE III DETAIL

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

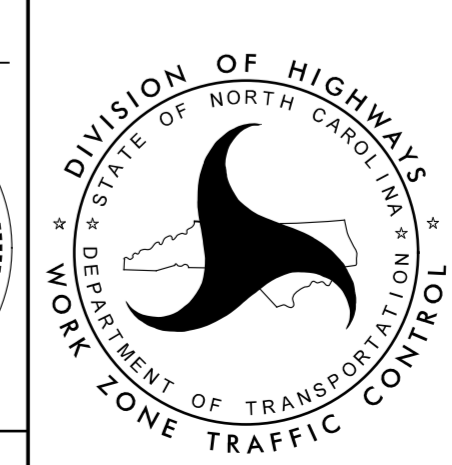
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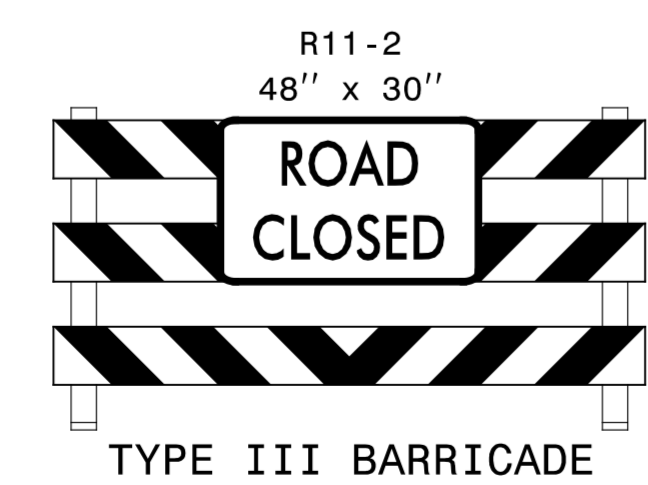
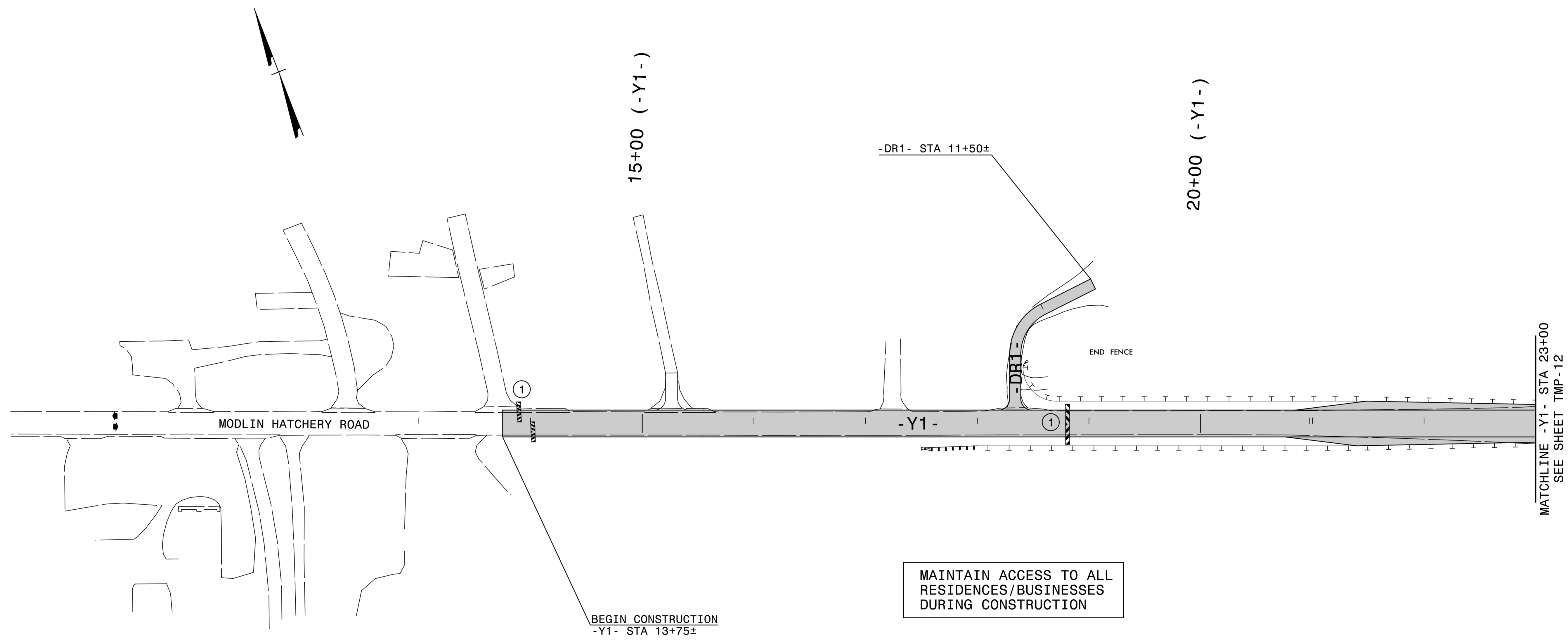


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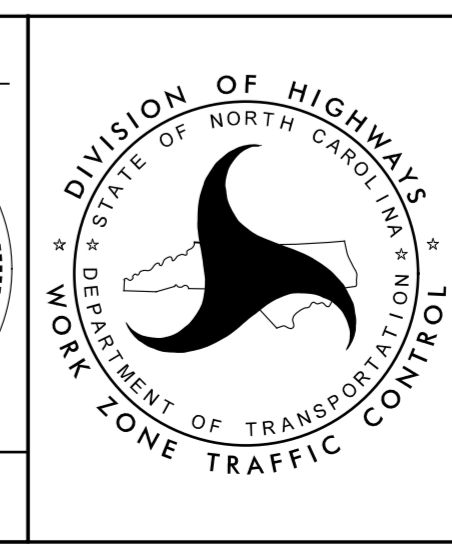


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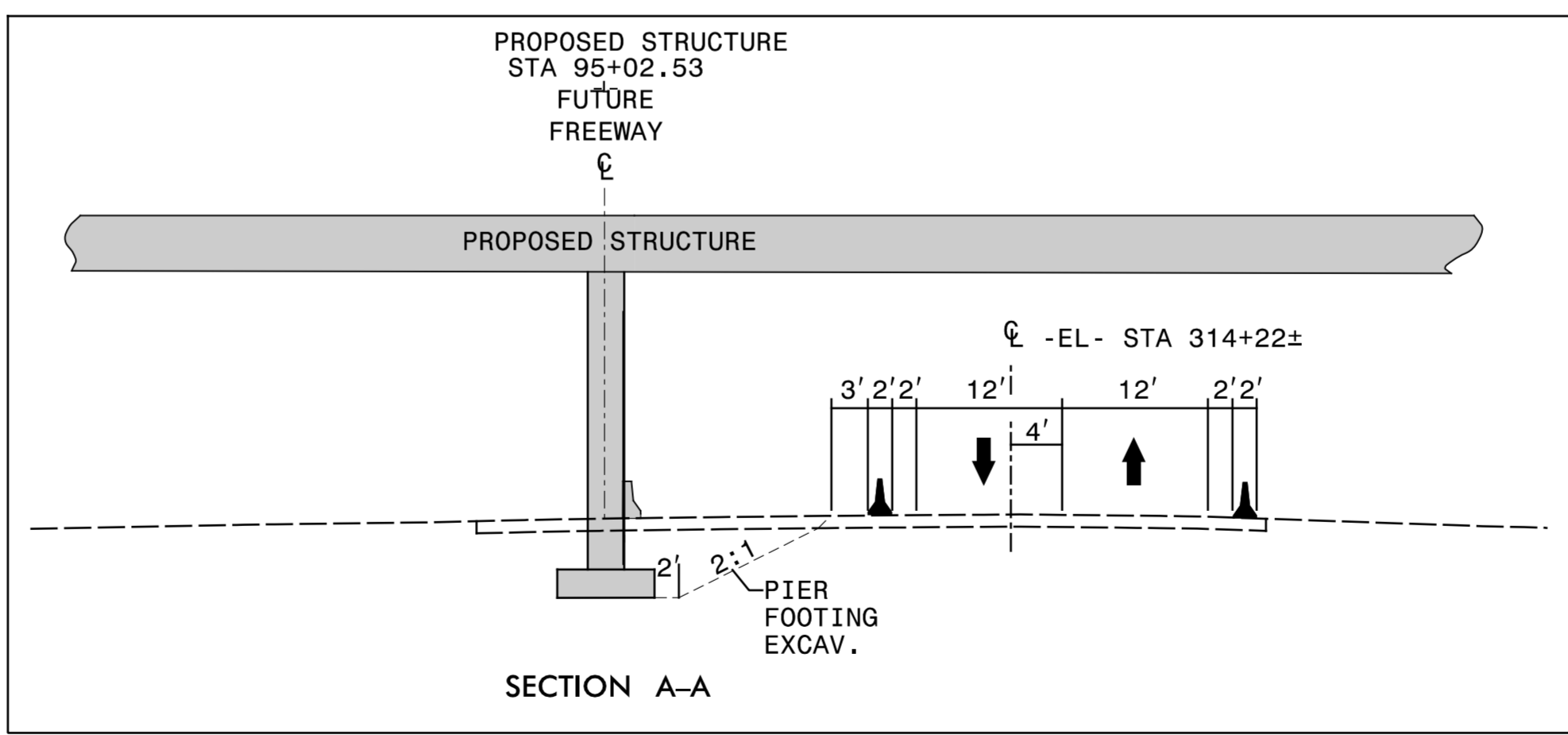
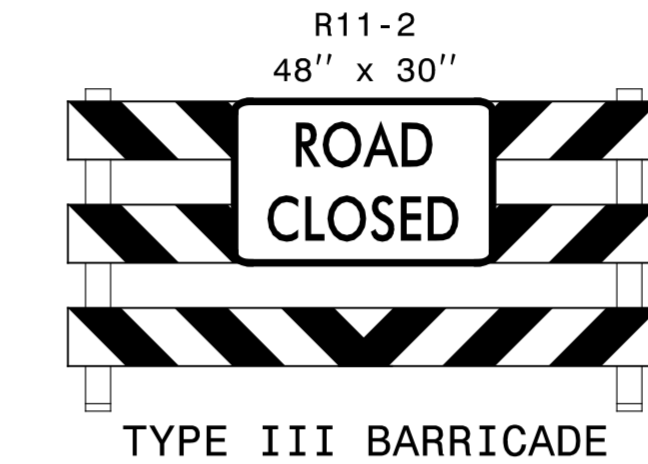
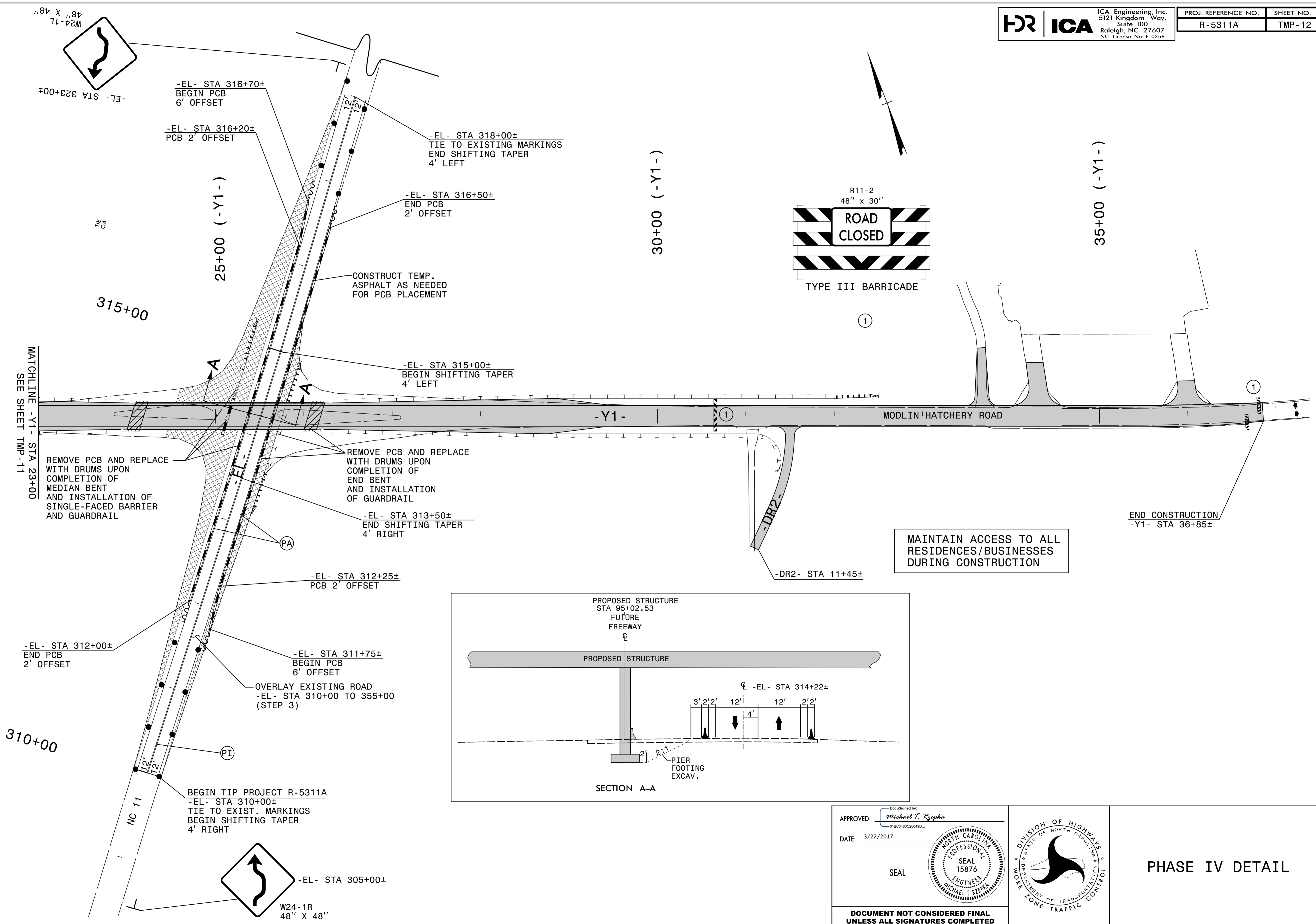
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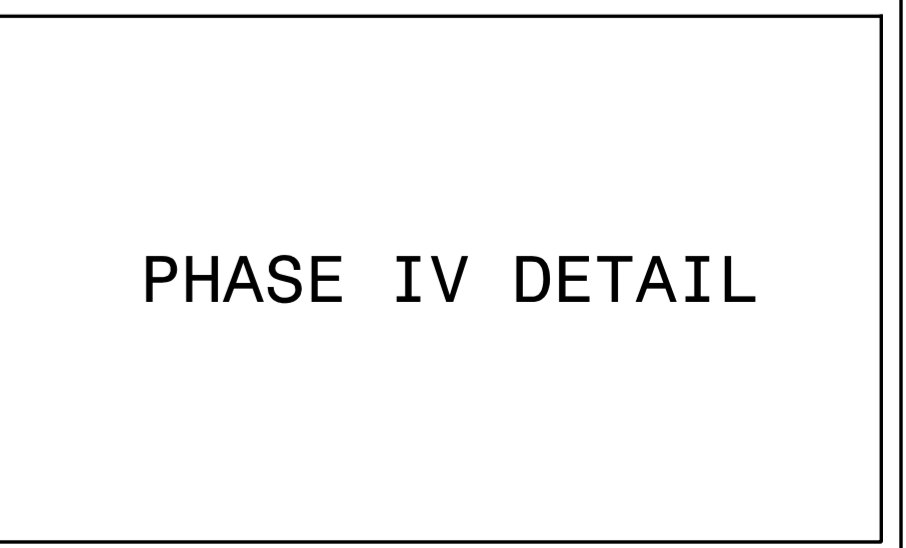
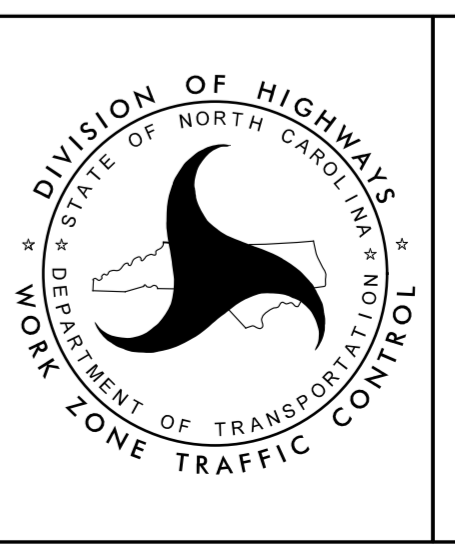


PHASE IV DETAIL

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