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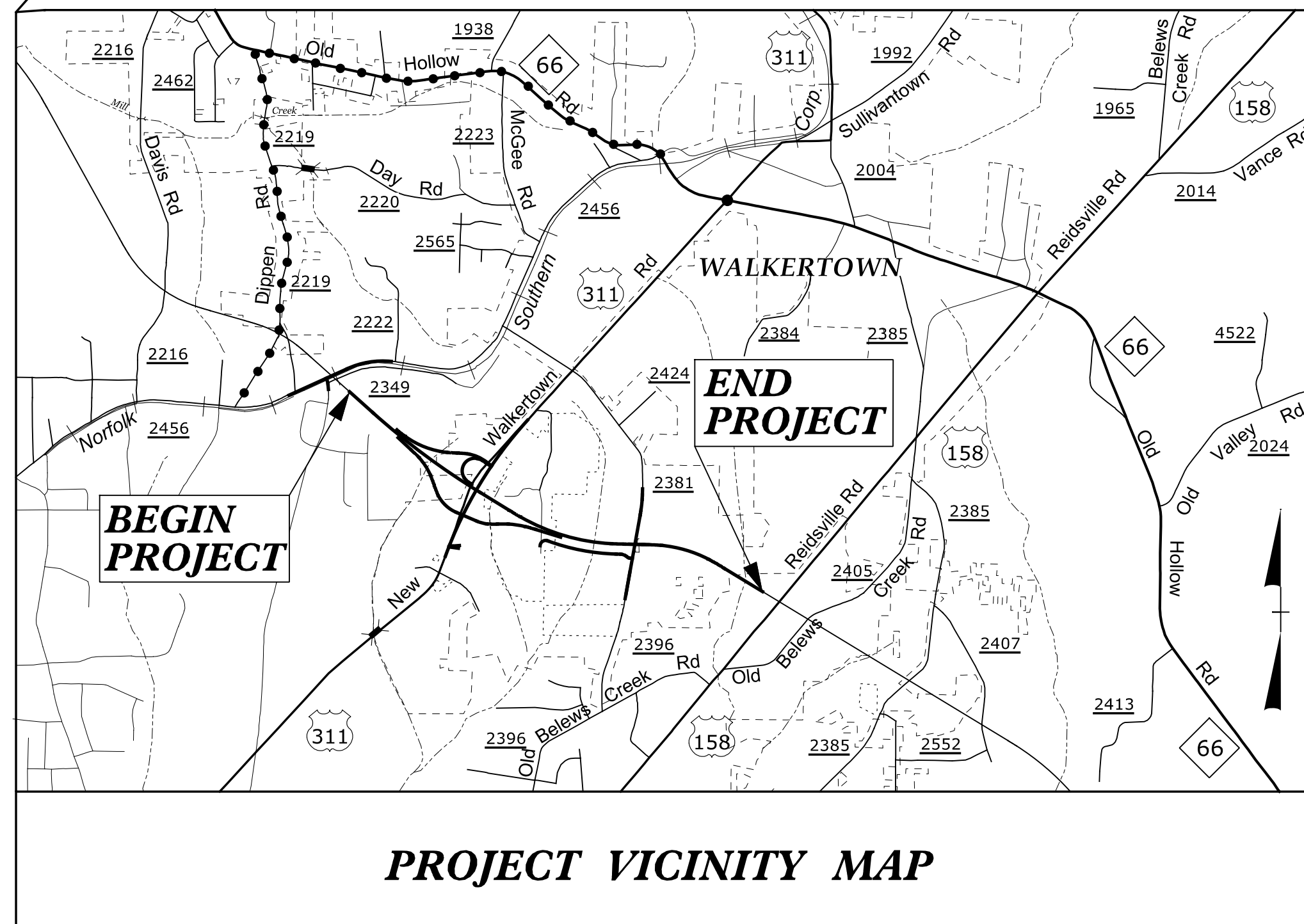
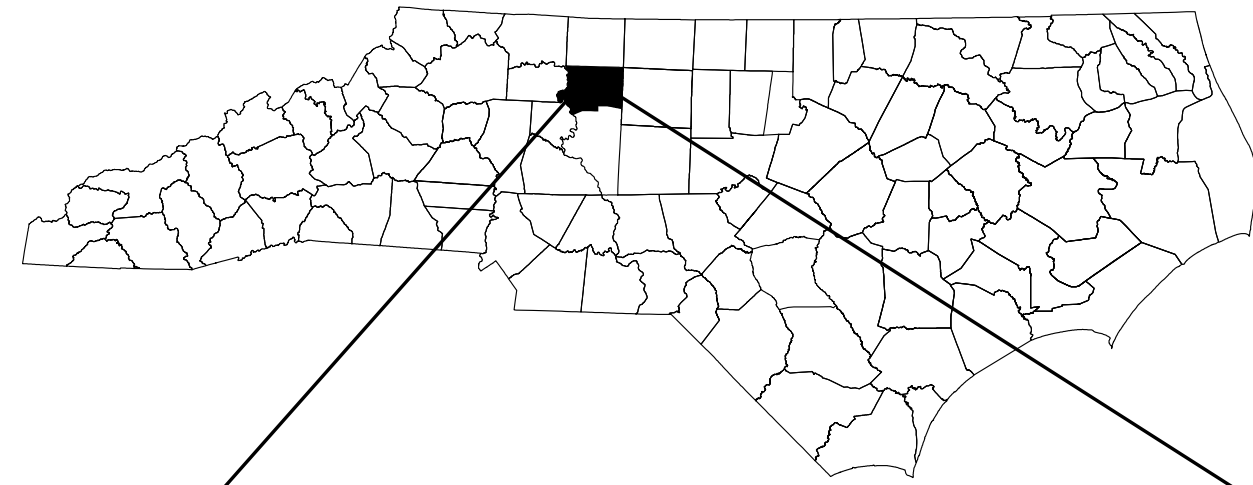
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

FORSYTH COUNTY

**LOCATION: WINSTON - SALEM NORTHERN BELTWAY (EASTERN SECTION)
FROM US 311 TO US 158 (FUTURE I-74)**

**TYPE OF WORK: WIDENING, GRADING, PAVING, DRAINAGE, SIGNING, SIGNALS,
ITS, CULVERTS AND STRUCTURES.**



PROJECT VICINITY MAP

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-2	TRANSPORTATION OPERATION PLAN (GENERAL NOTES, MANAGEMENT STRATEGIES, LOCAL NOTES)
TMP-2A	DETOUR PLAN OLD WALKERTOWN RD (SR 2456) CLOSURE
TMP-2B	OLD WALKERTOWN RD DETOUR SIGNING DETAIL
TMP-2C	ROAD CLOSURE SIGNS AND DETOUR SIGNS
TMP-2D	SPECIAL SIGN DESIGN
TMP-3	PHASING
TMP-4 THRU 9	PHASE I DETAILS
TMP-10 THRU 13	PHASE II DETAILS
TMP-14 THRU 19	PHASE III DETAILS
TMP-20	PHASE III PERMANENT BARRICADE LOCATIONS

SHEET NO.
TMP-1

U-2579C

TIP PROJECT:

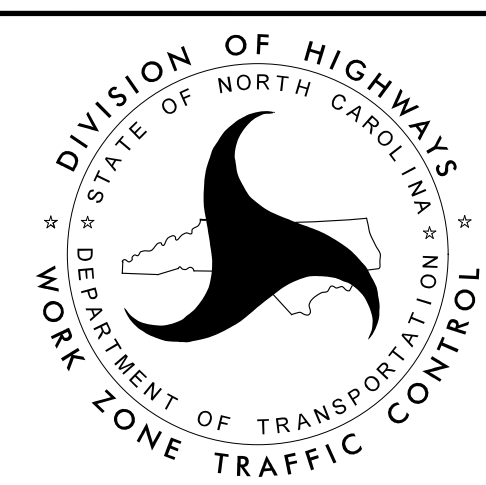
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APPROVED: *Michael T. Rzepka*
DATE: 7/5/2017

SEAL



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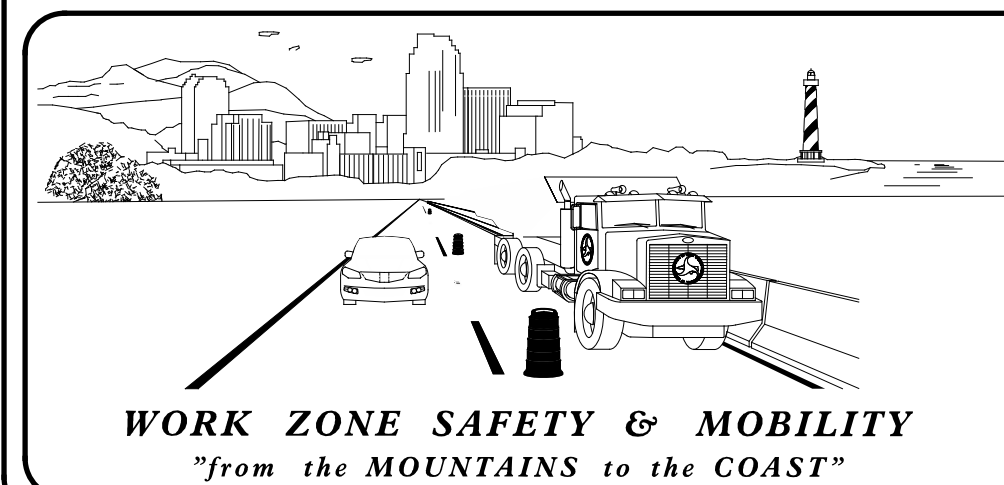


N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. HUMMER, PhD, PE STATE TRAFFIC MANAGEMENT ENGINEER
TRAFFIC CONTROL PROJECT ENGINEER

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A. LYUDMIRSKAYA TRAFFIC CONTROL DESIGN ENGINEER



7/5/2017
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ICA Engineering Inc

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
1101.04	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
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
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
1261.03	GUARDRAIL END DELINEATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- CONTINUING CONSTRUCTION
- WEDGING
- REMOVAL

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
<u>PAINT (4")</u>	
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PI	DOUBLE YELLOW CENTERLINE
<u>PAINT (24')</u>	
P2	WHITE STOP BAR
<u>TEMPORARY RAISED MARKERS</u>	
MH	YELLOW & YELLOW

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

APPROVED: DATE: 7/5/2017			ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING SCHEDULE
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MANAGEMENT STRATEGIES

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:

US 311(-Y1-):

TRAFFIC WILL BE MAINTAINED ON EXISTING US 311 AND A TEMPORARY ONSITE DETOUR UTILIZING LANE CLOSURES AND FLAGGING AS NECESSARY.

WILLISTON ROAD(-Y2-):

TRAFFIC WILL BE MAINTAINED ON EXISTING WILLISTON ROAD AND A TEMPORARY ONSITE DETOUR UTILIZING LANE CLOSURES AND FLAGGING AS NECESSARY.

OLD WALKERTOWN ROAD (-Y3-) AND NORTHAMPTON DRIVE 9-Y4-):

OLD WALKERTOWN ROAD WILL BE CLOSED TO TRAFFIC WITHIN THE PROJECT LIMITS FOR CONSTRUCTION. TRAFFIC WILL USE AN OFFSITE DETOUR CONSISTING OF SR 2219 (DIPPEN ROAD) AND NC 66. NORTHAMPTON DRIVE ACCESS TO OLD WALKERTOWN ROAD WILL BE CLOSED DURING THE SAME PERIOD.

LOCAL NOTES

- 1) MAINTAIN DRIVE ACCESS TO PROPERTIES DURING CONSTRUCTION AT ALL TIMES.
- 2) COORDINATE OPENING OF -L- AND RAMPS/LOOPS BETWEEN US 311 AND US 158. USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES TO KEEP CLOSED NEWLY CONSTRUCTED -L- WEST OF PROPOSED -Y1- (US 311) AND RAMPS -Y1RPB- AND -Y1RPC-.
- 3) COORDINATE WITH THE DIVISION TRAFFIC ENGINEER AND THE REGIONAL TRAFFIC ENGINEER FOR SIGNAL ACTIVATION ON US 311 (-Y1-) AT RAMP B (-Y1RPB-)/LOOP B (-Y1LPB-) AND RAMP C (-Y1RPC-)/RAMP D (-Y1RPD-) INTERSECTIONS.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US 311 (-Y1-)	WHEN SCHOOL IS IN SESSION, 6:00 AM - 9:00 AM, 3:00 PM - 6:00 PM
WILLISTON RD. (-Y2-)	WHEN SCHOOL IS IN SESSION, 6:00 AM - 9:00 AM, 3:00 PM - 6:00 PM

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

ROAD NAME	HOLIDAY
US 311 (-Y1-) WILLISTON RD. (-Y2-)	
	1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
	2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

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

- C) DO NOT CONDUCT SINGLE VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 311 (-Y1-)	WHEN SCHOOL IS IN SESSION, 6:00 AM - 9:00 AM, 3:00 PM - 6:00 PM
WILLISTON RD. (-Y2-)	WHEN SCHOOL IS IN SESSION, 6:00 AM - 9:00 AM, 3:00 PM - 6:00 PM

- D) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 311 (-Y1-)	WHEN SCHOOL IS IN SESSION, 6:00 AM - 9:00 AM, 3:00 PM - 6:00 PM
WILLISTON RD. (-Y2-)	WHEN SCHOOL IS IN SESSION, 6:00 AM - 9:00 AM, 3:00 PM - 6:00 PM

- E) 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

- F) 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.
- G) 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.
- H) 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.
- I) 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.
- J) 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.
- K) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.



PROJ. REFERENCE NO.	SHEET NO.
U-2579C	TMP-2

PAVEMENT EDGE DROP OFF REQUIREMENTS

- L) 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.
- M) 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

- N) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

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

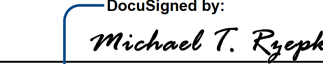
PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- Q) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

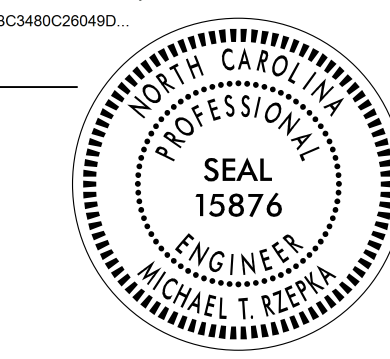
COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- R) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- S) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 311 AND WILLISTON ROAD.
- T) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

PAVEMENT MARKINGS AND MARKERS

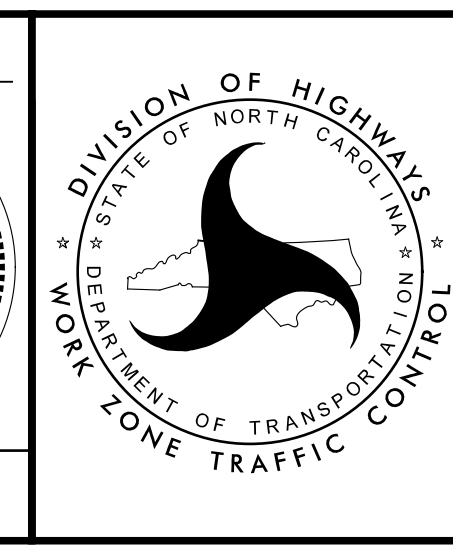
- U) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
US 311 (-Y1-)	PAINT	TEMPORARY RAISED
WILLISTON ROAD (-Y2-)	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 ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

APPROVED: 
DATE: 7/5/2017

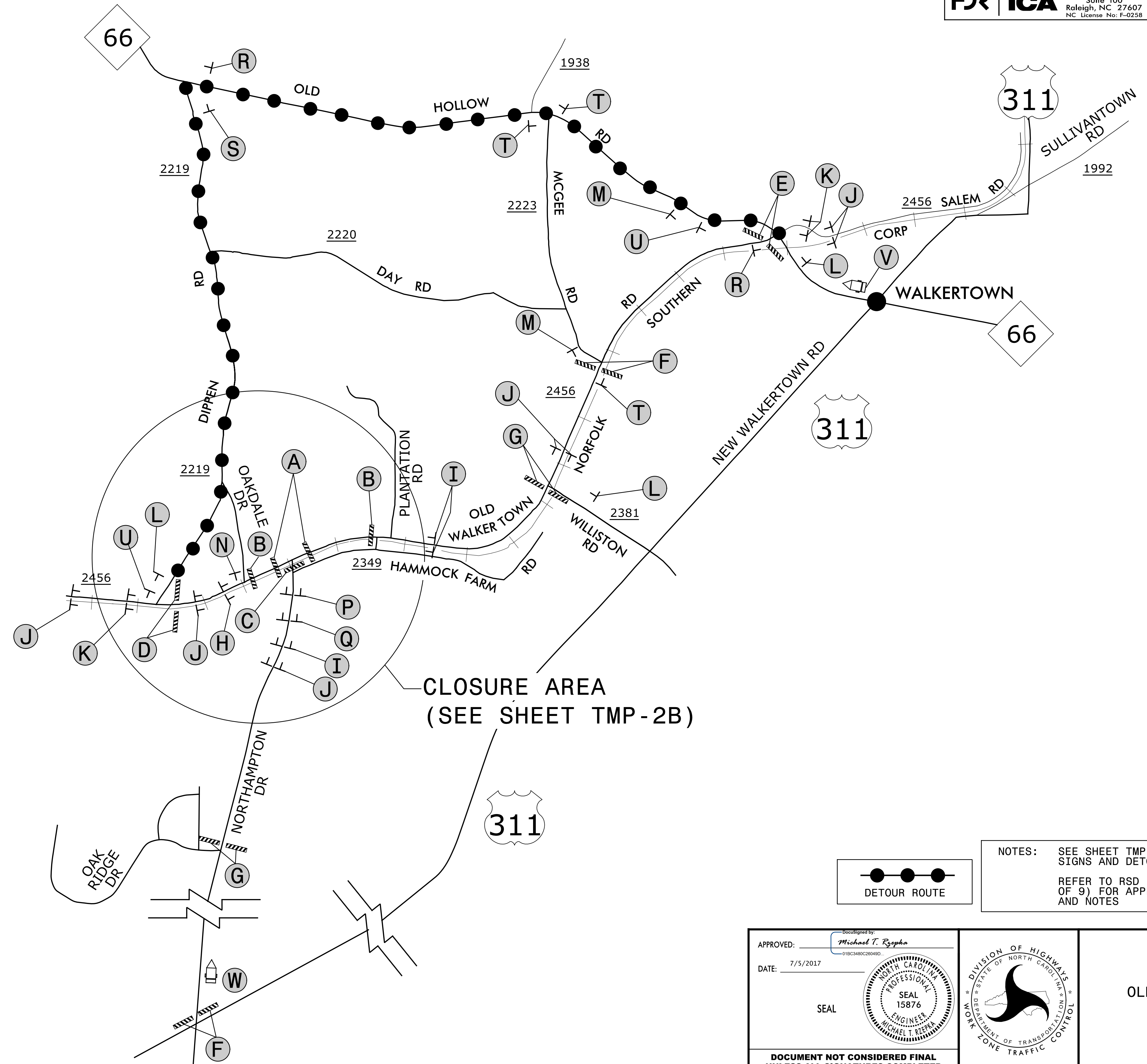
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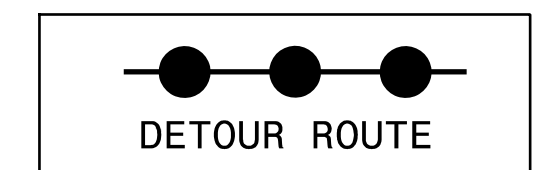


TRANSPORTATION OPERATIONS PLAN

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CLOSURE AREA
(SEE SHEET TMP-2B)



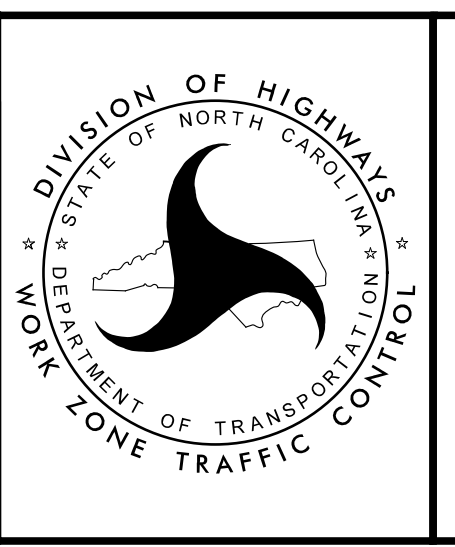
NOTES: SEE SHEET TMP-2C FOR ROAD CLOSURE SIGNS AND DETOUR SIGNS
 REFER TO RSD 1101.03, (SHEETS 1 & 2 OF 9) FOR APPLICABLE SIGN DISTANCES AND NOTES

APPROVED: *Michael T. Rzepka*
01BC3480C26049D

DATE: 7/5/2017

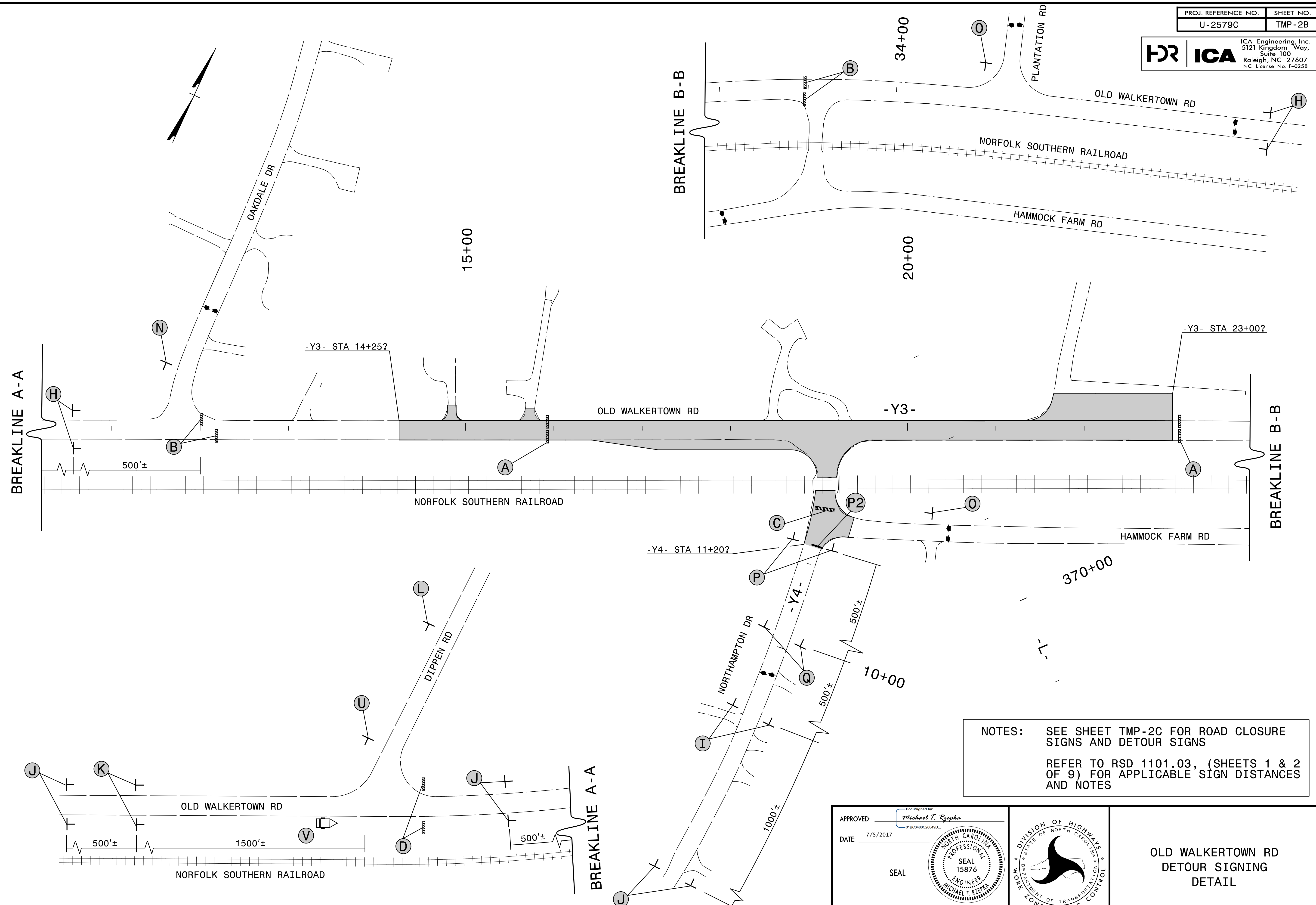
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DETOUR PLAN
 OLD WALKERTOWN RD
 (SR 2456)
 CLOSURE

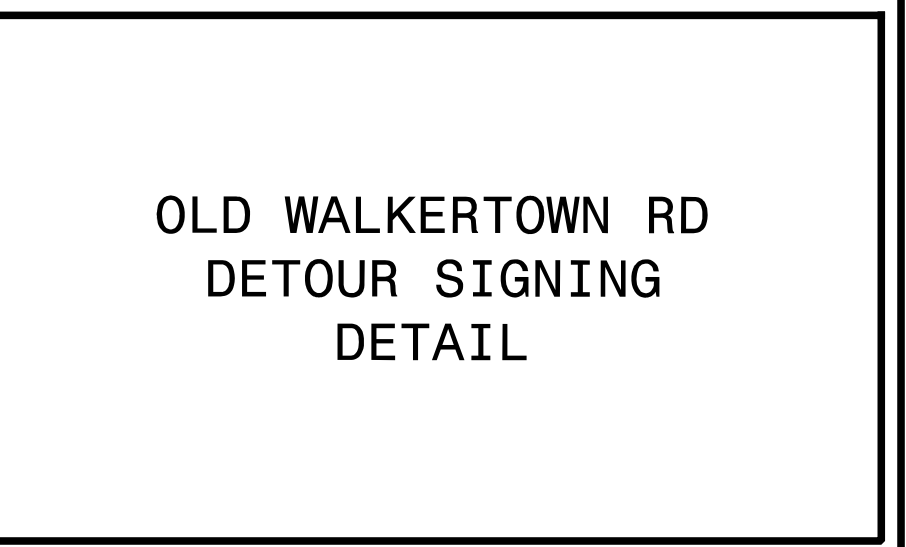
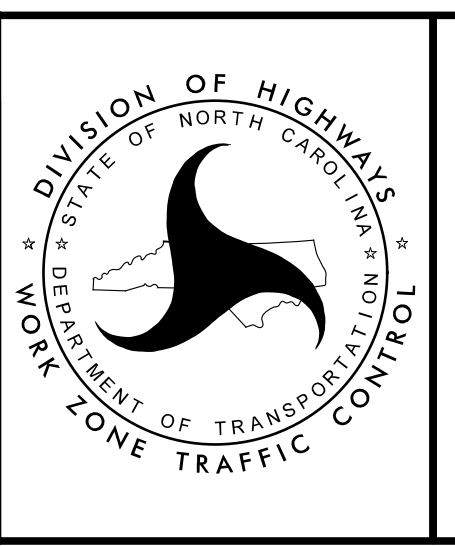
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NOTES: SEE SHEET TMP-2C FOR ROAD CLOSURE SIGNS AND DETOUR SIGNS
 REFER TO RSD 1101.03, (SHEETS 1 & 2 OF 9) FOR APPLICABLE SIGN DISTANCES AND NOTES

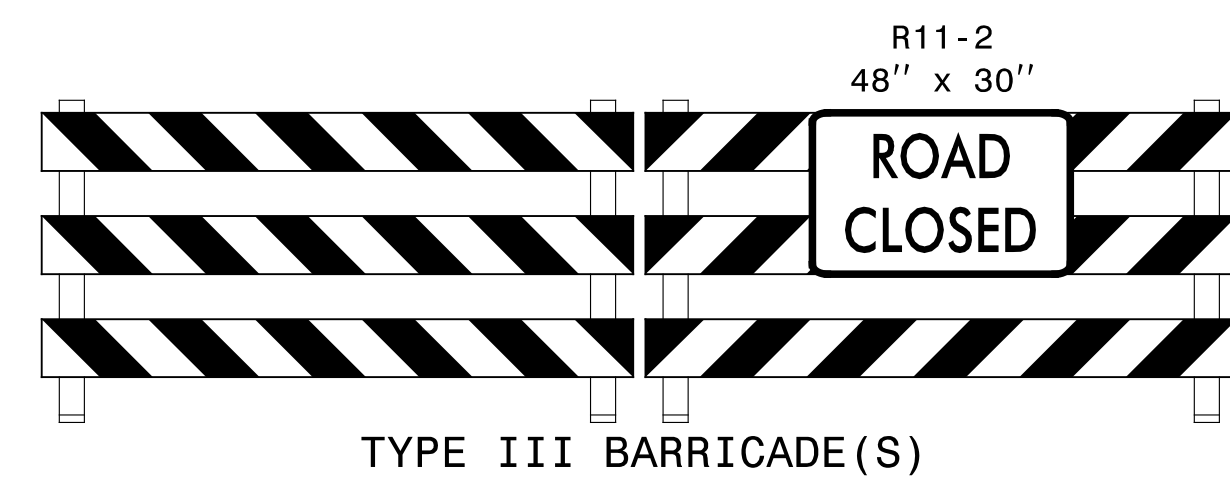
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 DATE: 7/5/2017
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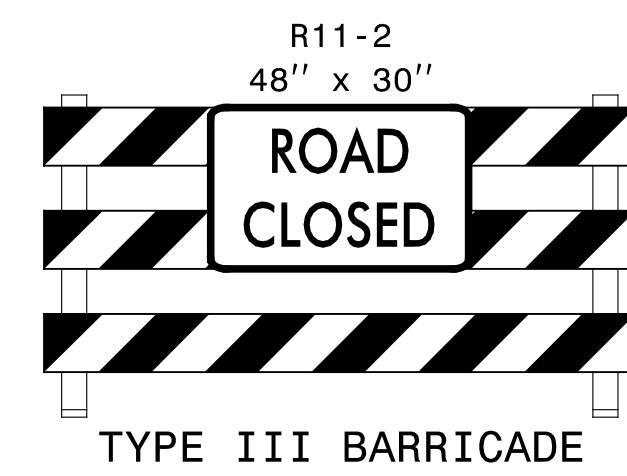


OLD WALKERTOWN RD
 DETOUR SIGNING
 DETAIL

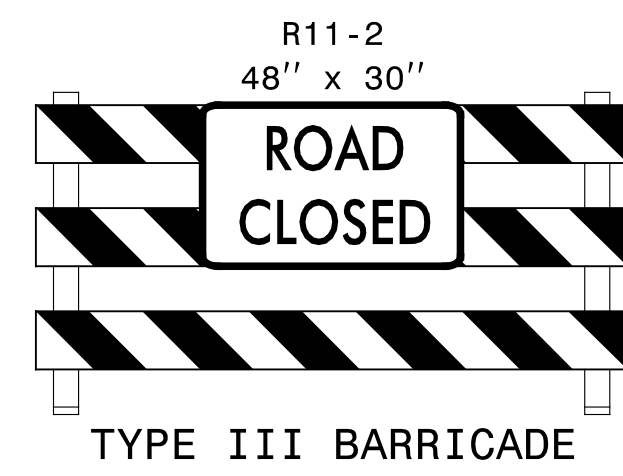
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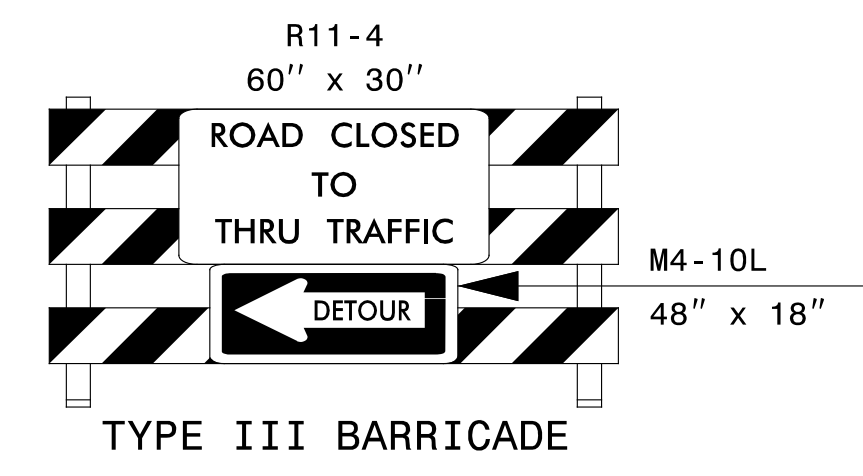
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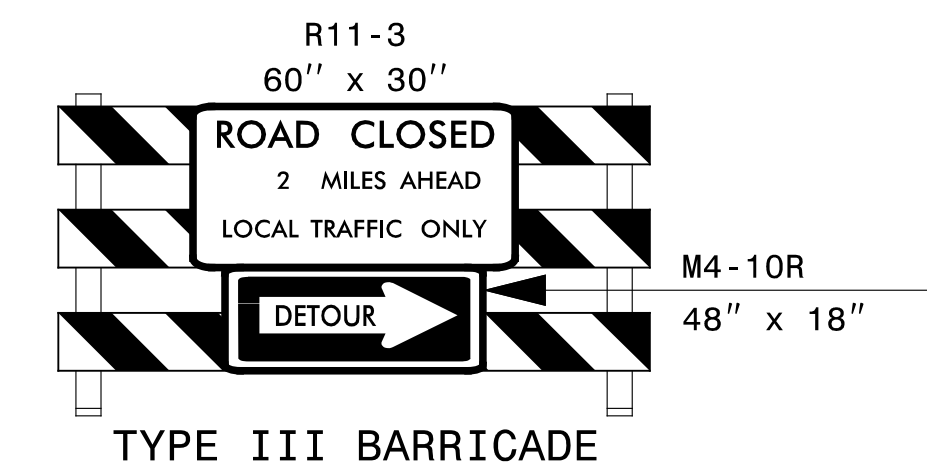
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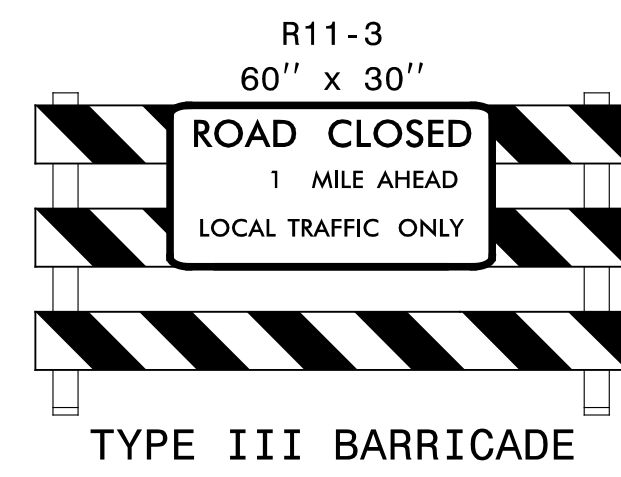
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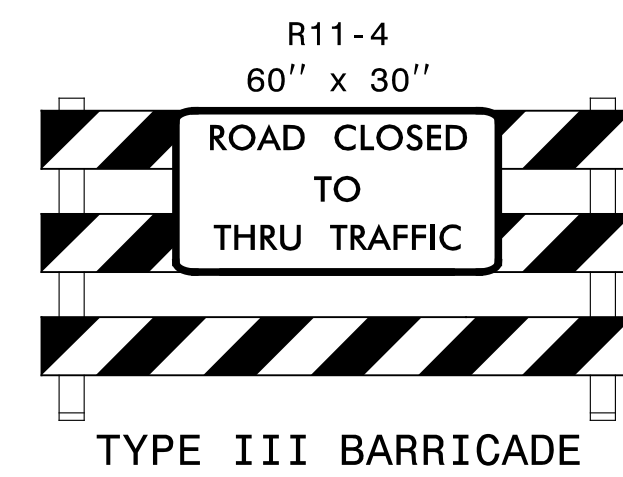
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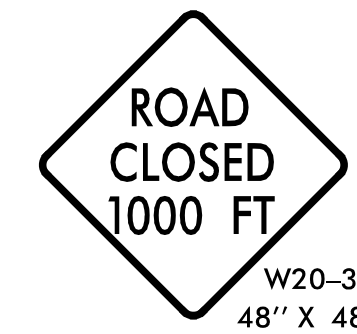
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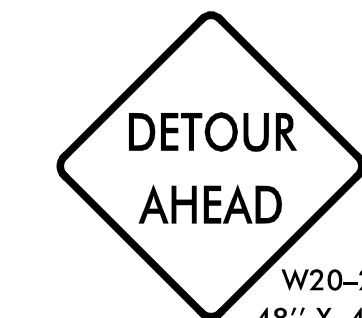
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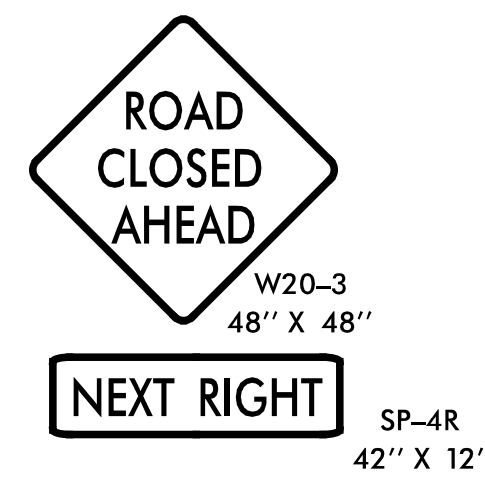


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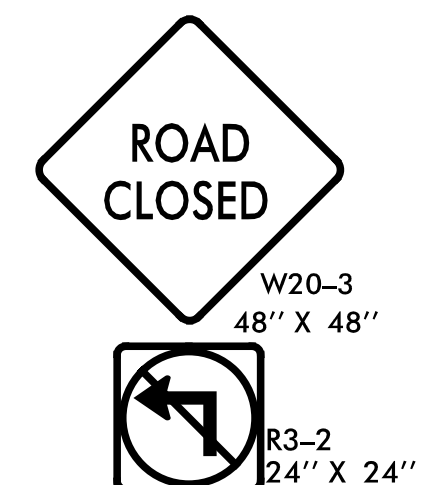


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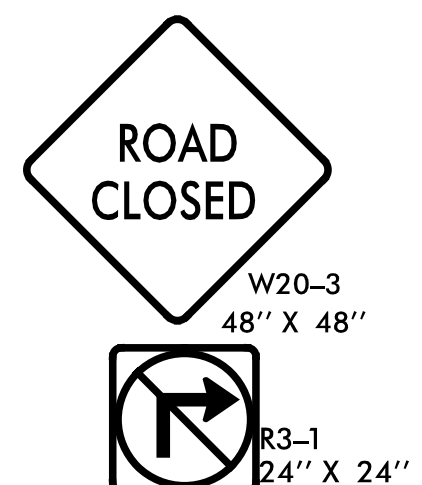
MESSAGES AS SHOWN OR AS DIRECTED BY THE ENGINEER



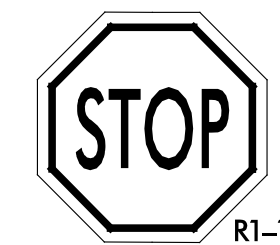
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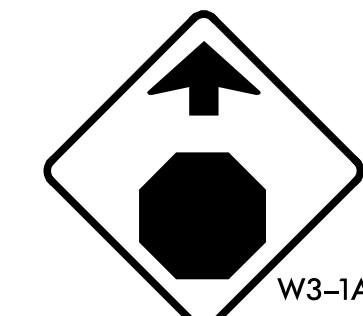
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(O)



(P)



(Q)

MESSAGE NO. 1	MESSAGE NO. 2
OLD WLKRTOWN TO CLOSE	ON (DATE)

CHANGEABLE MESSAGE SIGN

(V)

MESSAGE NO. 1	MESSAGE NO. 2
ACCESS TO OLD WLKRTOWN	TO CLOSE ON (DATE)

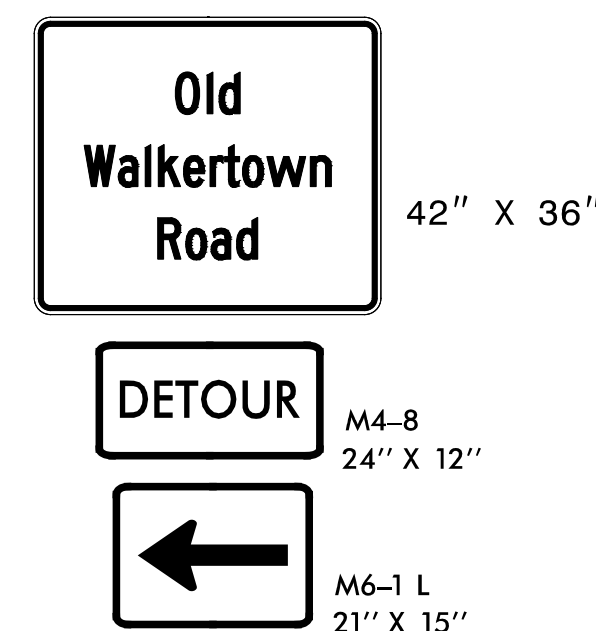
CHANGEABLE MESSAGE SIGN

(W)

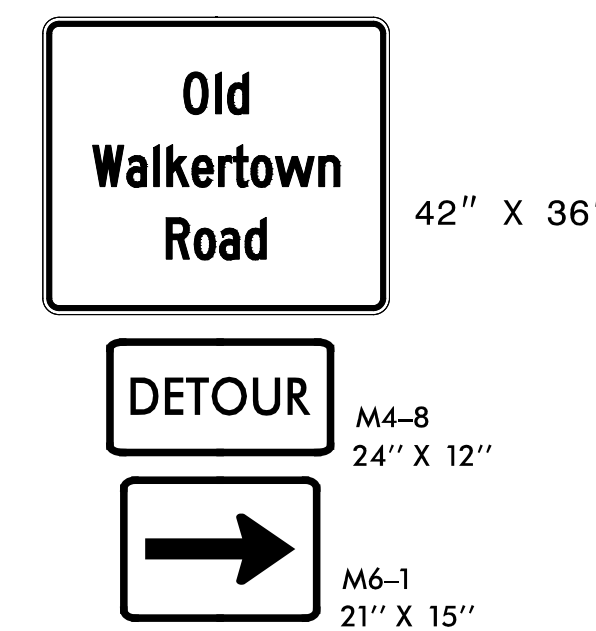
ACTIVATE CMS 7 DAYS PRIOR TO ROAD CLOSURE

REMOVE CMS AFTER ROAD CLOSURE

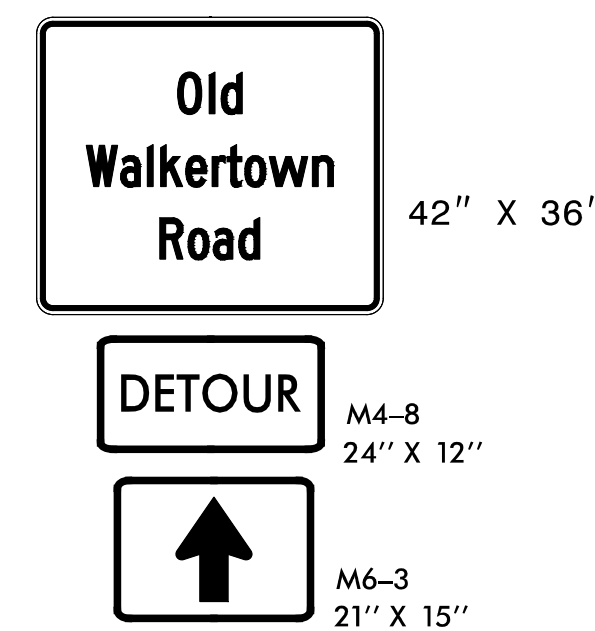
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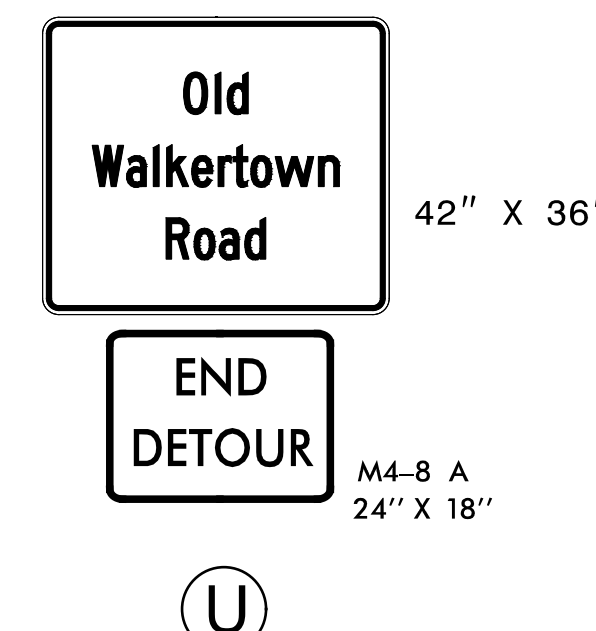
(R)



(S)

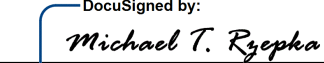


(T)



(U)

NOTE: SEE SHEET TMP-2D FOR SPECIAL SIGN DESIGN

APPROVED: 
DATE: 7/5/2017

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ROAD CLOSURE SIGNS AND DETOUR SIGNS

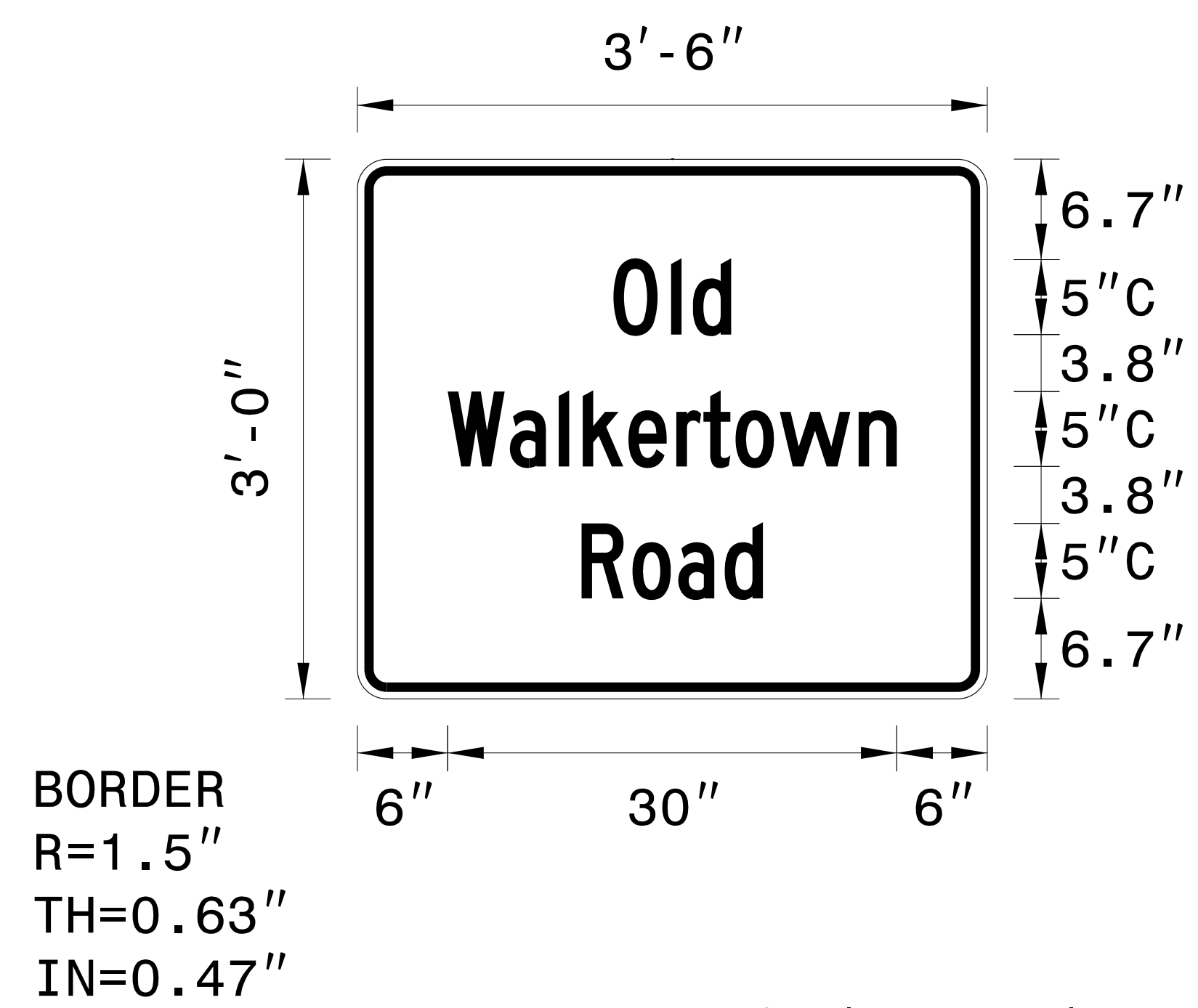
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 TYPE: STATIONARY COPY COLOR: Black
 QUANTITY: SEE PLANS
 SIGN WIDTH: 3'-6"
 HEIGHT: 3'-0"
 TOTAL AREA: 10.5 Sq.Ft.
 BORDER TYPE: INSET
 RECESS: 0.47"
 WIDTH: 0.63"
 RADII: 1.5"
 NO. Z BARS:
 LENGTH:

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2
 1. Legend and border shall be direct applied black non-reflective sheeting.
 2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: mtr CHECKED BY: DATE: Apr 04, 2017
 PROJECT ID: U-2579C DIV: 9



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

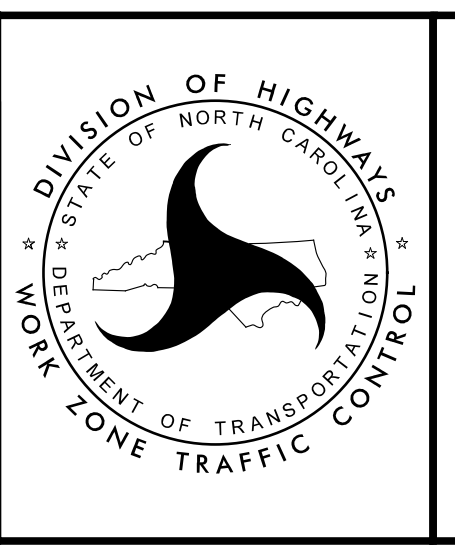
Letter spacings are to start of next letter													Series/Size
	o	l	d										Text Length
17.1	3.9	1.4	2.6	17.1									C 2000
													7.9
	W	a	l	k	e	r	t	o	w	n			C 2000
6	4.2	3.3	1.6	3.1	3.2	1.8	2.1	3	5.3	2.6	6		30
	R	o	a	d									C 2000
15	3.4	3.1	3.1	2.6	14.9								12.1

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NORTH CAROLINA D.O.T. SIGN DETAIL

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APPROVED: *Michael T. Rzepka*
 DATE: 7/5/2017
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DIVISION OF HIGHWAYS
 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

SPECIAL SIGN DESIGN

PHASING



ICA Engineering, Inc.
5121 Kingdom Way,
Suite 100
Raleigh, NC 27607
NC License No. F-0258

PROJ. REFERENCE NO.	SHEET NO.
U-2579C	TMP-3

NOTES:

- RSD REFERS TO ROADWAY STANDARD DRAWING.
- UNLESS OTHERWISE SPECIFIED, CONSTRUCTION FOR PHASE I THROUGH PHASE III, STEP 2 IS UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE.
- CONSTRUCTION ON US 311 (-Y1-) AND WILLISTON ROAD (-Y2-) MAY BE PERFORMED INDEPENDENTLY OF ONE ANOTHER.
- CONSTRUCTION OF OLD WALKERTOWN ROAD (-Y3-) AND NORTHAMPTON DRIVE (-Y4-) TIE (PHASE I, STEP 3) MAY BE PERFORMED INDEPENDENTLY OF THE CONSTRUCTION ON US 311 (-Y1-) AND WILLISTON ROAD (-Y2-).

PHASE I

STEP 1

INSTALL ALL ADVANCE WORK ZONE WARNING SIGNS ON -Y1- (US 311) AND -Y2- (WILLISTON RD) ACCORDING TO RSD 1101.01 (SHEET 3 OF 3).

STEP 2

USING RSD 1101.02 (SHEET 1 OF 15) AND AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING (SEE LOCAL NOTE 1)(SEE SHEETS TMP-4 THRU TMP-6 & TMP-9 AND ROADWAY PLANS):

- L- STA 373+00± TO -L- STA 385+00± (GRADING ONLY)
- L- STA 385+00± TO -L- STA 406+50±
- L- STA 408+50± TO -L- STA 424+50±
- L- STA 426+50± TO -L- STA 446+00±
- L- STA 449+25± TO -L- STA 478+00±
- Y1- STA 11+00± TO -Y1- STA 23+40± (RIGHT SIDE WIDENING, UP TO EDGE AND ELEV. OF EXISTING)
- Y1- STA 23+40± TO -Y1- STA 34+00± (INCLUDING STRUCTURE)
- Y1RPB- STA 10+00± TO -Y1RPB- STA 31+20±
- Y1LPB- STA 11+00± TO -Y1LPB- STA 20+50±
- Y1RPC- STA 10+00± TO -Y1RPC- STA 32+00±
- Y1RPD- STA 10+00± TO -Y1RPD- STA 14+10±
- Y1RPD- STA 16+10± TO -Y1RPD- STA 32+50±
- Y2- STA 10+00± TO -Y2- STA 15+00± (WEDGING & WIDENING, LEFT & RIGHT SIDES)
- SRSA-
- INSTALLATION OF SIGNAL FRAMEWORK AT -Y1- INTERCHANGE.

USING RSD 1101.02 (SHEET 1 OF 15) AND AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE LOCAL NOTE 1)(SEE SHEETS TMP-6 THRU 9):

- Y1DET- STA 15+95± TO -Y1DET- STA 18+46± (WIDENING UP TO EDGE & ELEV. OF EXIST.)
- Y1DET- STA 18+46± TO -Y1DET- STA 30+60±
- Y1DET- STA 30+60± TO -Y1DET- STA 33+50± (WIDENING UP TO EDGE & ELEV. OF EXIST.)
- Y2DET- STA 15+00± TO -Y2DET- STA 16+60± (WIDENING UP TO EDGE & ELEV. OF EXIST.)
- Y2DET- STA 16+60± TO -Y2DET- STA 26+43±
- Y2DET- STA 26+43± TO -Y2DET- STA 28+00± (WIDENING UP TO EDGE & ELEV. OF EXIST.)

AWAY FROM TRAFFIC, BEGIN INSTALLATION OF ITS (SEE ITS PLANS).

INSTALL DETOUR SIGNS FOR -Y3- DETOUR AND COVER. INSTALL AND ACTIVATE CMS BOARDS 7 DAYS BEFORE CLOSING OLD WALKERTOWN ROAD (-Y3-). (SEE SHEETS TMP-2A THRU 2D).

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 3 IN THIRTY (30) CONSECUTIVE CALENDAR DAYS (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES).

STEP 3

UNCOVER OFFSITE DETOUR SIGNS INSTALLED IN STEP 2 (SEE SHEETS TMP-2A & 2B). USING RSD 1101.03 (SHEET 1 OF 9), CLOSE -Y3- FROM -Y2- STA 12+00± TO -Y2- STA 33+00± AND -Y4- ACCESS TO -Y3- (SEE SHEET TMP-2B).

AWAY FROM TRAFFIC, CONSTRUCT -Y3- STA 14+25± TO STA 23+00± AND -Y4- STA 11+20± TO -Y3-, INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEET TMP-2B).

PLACE PERMANENT MARKINGS AND MARKERS PER FINAL SIGNING AND DELINEATION PLANS AND OPEN -Y3- & -Y4- TO TRAFFIC. REMOVE OFFSITE DETOUR SIGNS AND DEVICES.

PHASE II

STEP 1

USING RSD 1101.02 (SHEET 1 OF 15), WEDGE PAVEMENT TIE TO -Y1DET-, PLACE TEMPORARY MARKINGS AND MARKERS ON -Y1DET- AND TIE TO EXISTING, AND SHIFT TRAFFIC ONTO -Y1DET-. CLOSE EXISTING US 311 ROADWAY AT DETOUR LIMITS TO TRAFFIC (SEE SHEETS TMP-10 & 11).

USING RSD 1101.02 (SHEET 1 OF 15), WEDGE PAVEMENT TIE TO -Y2DET-, PLACE TEMPORARY MARKINGS AND MARKERS ON -Y2DET- AND TIE TO EXISTING, AND SHIFT TRAFFIC ONTO -Y2DET-. CLOSE EXISTING WILLISTON ROAD AT DETOUR LIMITS TO TRAFFIC (SEE SHEETS TMP-12 & 13).

STEP 2

AWAY FROM TRAFFIC, CONSTRUCT -Y2- STRUCTURE (SEE SHEET TMP-13).

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT THE FOLLOWING (SEE LOCAL NOTE 1)(SEE SHEETS TMP-10 THRU 13):

- Y1- STA 34+00± TO -Y1- STA 49+25±
- Y2- STA 15+00± TO -Y2- STA 26+50±

COMPLETE CONSTRUCTION OF -Y1- AND -SRSA- BEGUN IN PHASE I.

PHASE III

COMPLETE THE WORK REQUIRED IN PHASE III, STEP 1A IN ONE WEEKEND FROM 6:00PM FRIDAY TO 6:00AM THE FOLLOWING MONDAY (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES).

STEP 1A

USING RSD 1101.02 (SHEET 1 OF 15), PLACE TEMPORARY MARKINGS AND MARKERS ON -Y1- AND TIE TO EXISTING MARKINGS. SHIFT TRAFFIC TO -Y1- IN THE TEMPORARY PATTERN SHOWN (SEE SHEETS TMP-14 THRU 17). CLOSE -Y1DET- TO TRAFFIC.

COMPLETE THE WORK REQUIRED IN PHASE III, STEP 1B IN ONE WEEKEND FROM 6:00PM FRIDAY TO 6:00AM THE FOLLOWING MONDAY (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES).

STEP 1B

USING RSD 1101.02 (SHEET 1 OF 15), PLACE TEMPORARY MARKINGS AND MARKERS ON -Y2- AND TIE TO EXISTING MARKINGS. SHIFT TRAFFIC TO FINAL PATTERN ON -Y2- AND CLOSE -Y2DET- TO TRAFFIC (SEE SHEETS TMP-18 & 19). OPEN -SRSA-. CLOSE EXISTING DILLON FARM ROAD AT -L-.

STEP 2

USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT -Y1- STA 11+00± TO -Y1- STA 23+40± (LEFT SIDE WIDENING, SHOULDER WORK, PAVEMENT REMOVAL AND WEDGING OF -Y1-)(SEE SHEETS TMP-14 THRU 17).

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), REMOVE -Y1DET- AND -Y2DET- (SEE SHEETS TMP-14 THRU 19).

AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT REMAINING SECTIONS OF THE FOLLOWING:

- L- STA 406+50± TO -L- STA 408+50±
 - L- STA 424+50± TO -L- STA 426+50±
 - L- STA 446+00± TO -L- STA 449+25±
 - Y1RPB- STA 31+20± TO -Y1RPB- STA 32+80±
 - Y1LPB- STA 20+50± TO -Y1LPB- STA 22+10±
 - Y1RPC- STA 32+00± TO -Y1RPC- STA 33+00±
 - Y1RPD- STA 14+10± TO -Y1RPD- STA 16+10±
- TURNAROUND ON EXISTING DILLON FARM ROAD

COMPLETE THE CONSTRUCTION OF -L-, -Y1RPB-, -Y1LPB-, -Y1RPC-, -Y1RPD- BEGUN IN PHASE I, INCLUDING SIGNAL FRAMEWORK AT -Y1- INTERCHANGE.

COMPLETE INSTALLATION OF ITS.

STEP 3

AT -Y1- LOCATION, USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING:

- CONSTRUCT MONOLITHIC ISLANDS ON -Y1- (SEE ROADWAY PLANS)
- PLACE FINAL LAYER OF SURFACE COURSE ON -Y1-
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON -Y1- PER FINAL PAVEMENT MARKING PLANS AND SHIFT TRAFFIC TO FINAL PATTERN.

AT -Y2- LOCATION, USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING:

- PLACE FINAL LAYER OF SURFACE COURSE ON -Y2-
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS PER FINAL PAVEMENT MARKING PLANS.

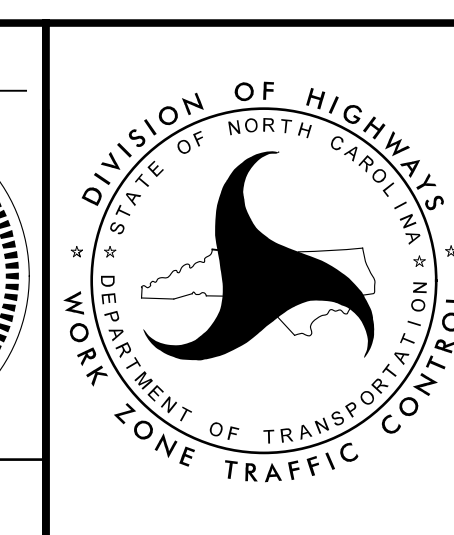
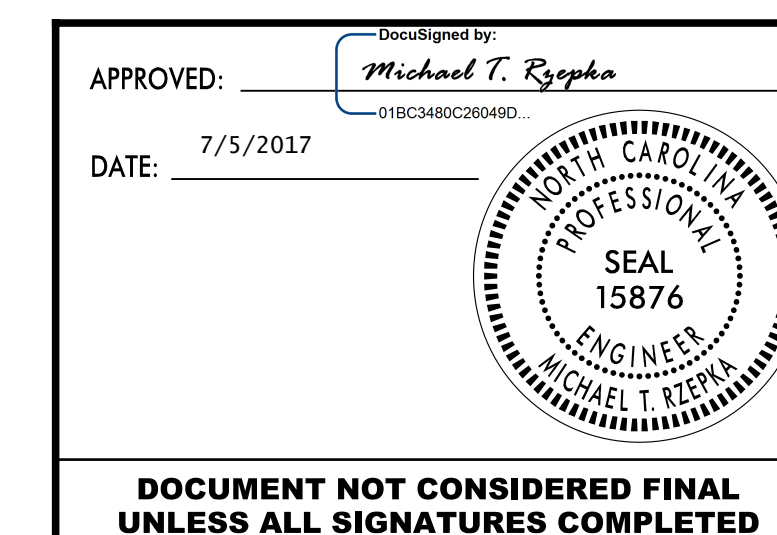
ON -L- AND -Y1- RAMPS & LOOPS, AWAY FROM TRAFFIC COMPLETE THE FOLLOWING:

- PLACE FINAL LAYER OF SURFACE COURSE ON -Y1- RAMPS AND LOOPS.
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS PER FINAL PAVEMENT MARKING PLANS.
- OPEN -L- FROM -Y1- TO US 158, -Y1LPB- AND -Y1RPD- TO FINAL PATTERN. -L- WEST OF -Y1-, -Y1RPB- AND -Y1RPC- TO REMAIN CLOSED (SEE SHEET TMP-20 AND LOCAL NOTES 2 & 3).
- INSTALL SIGNING OVERLAYS ON OVERHEAD SIGNS AT MAINLINE AND US 421 INTERCHANGE, USING RSD 1101.02 (SHEETS 4 & 10) (SEE SIGNING PLANS FOR SIGN LOCATIONS).

STEP 4

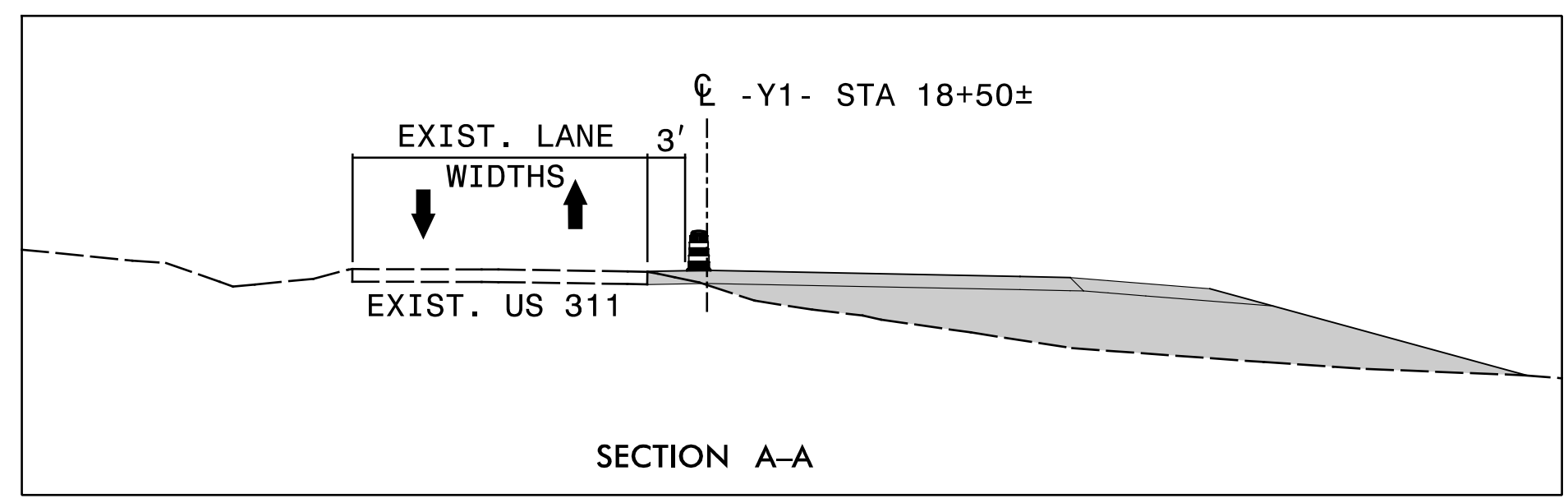
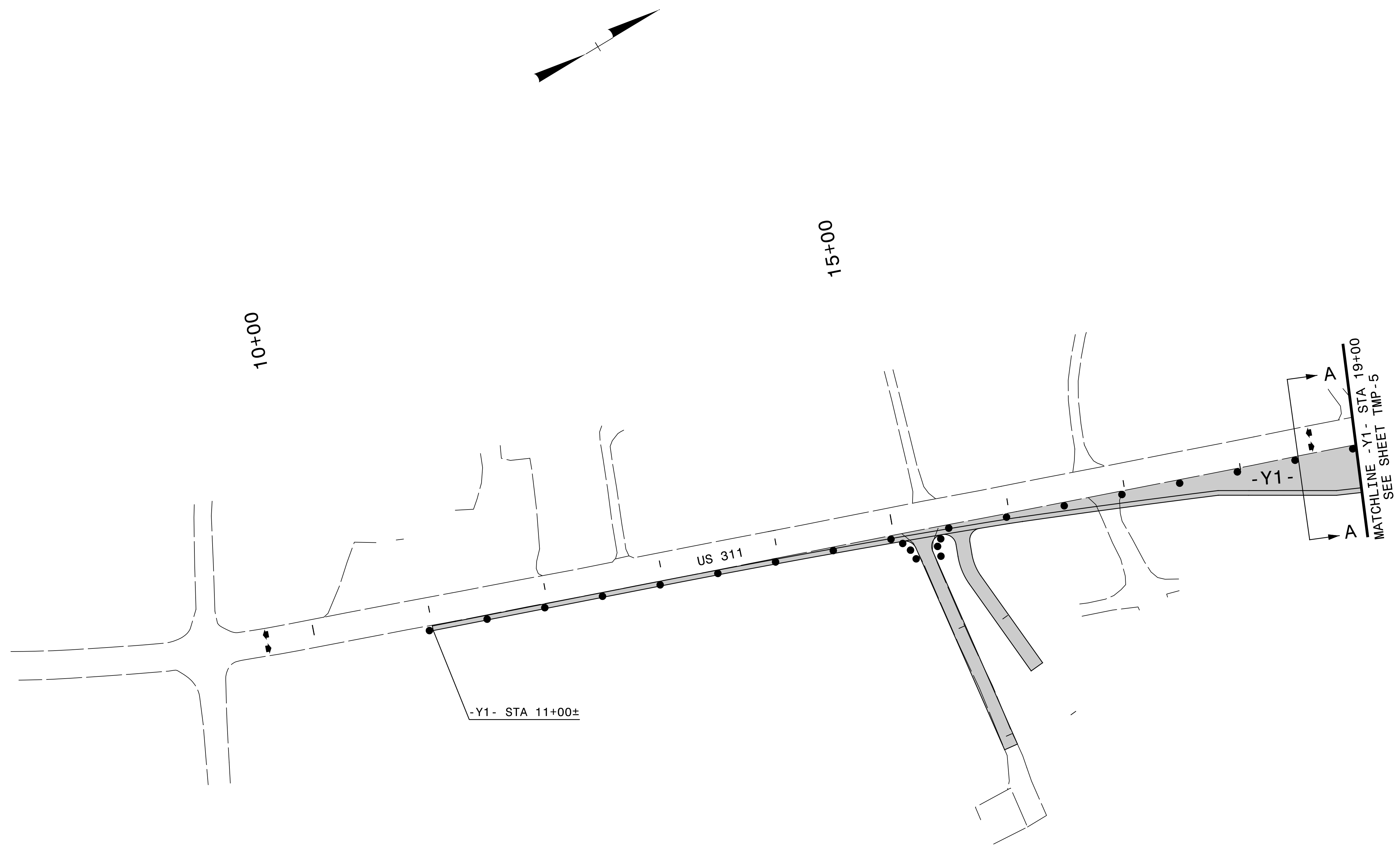
REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

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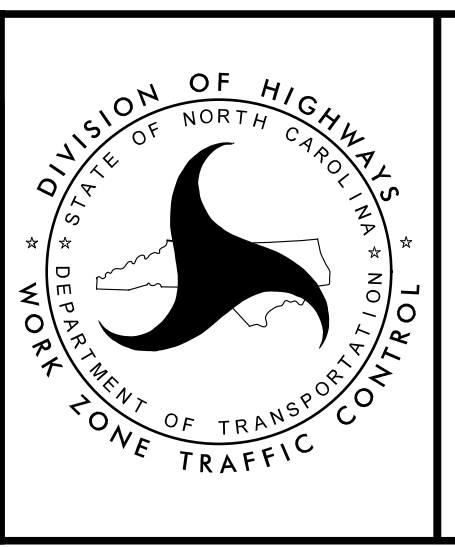
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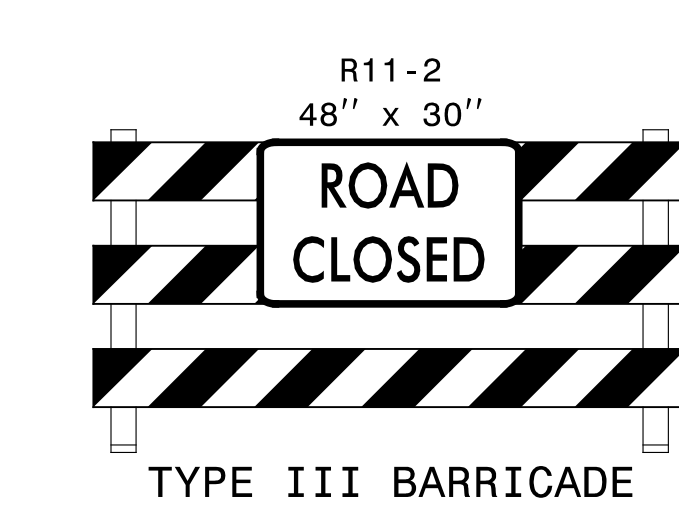
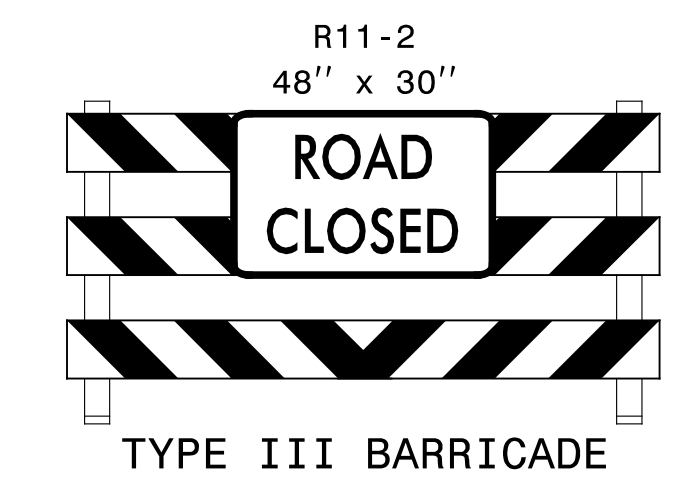
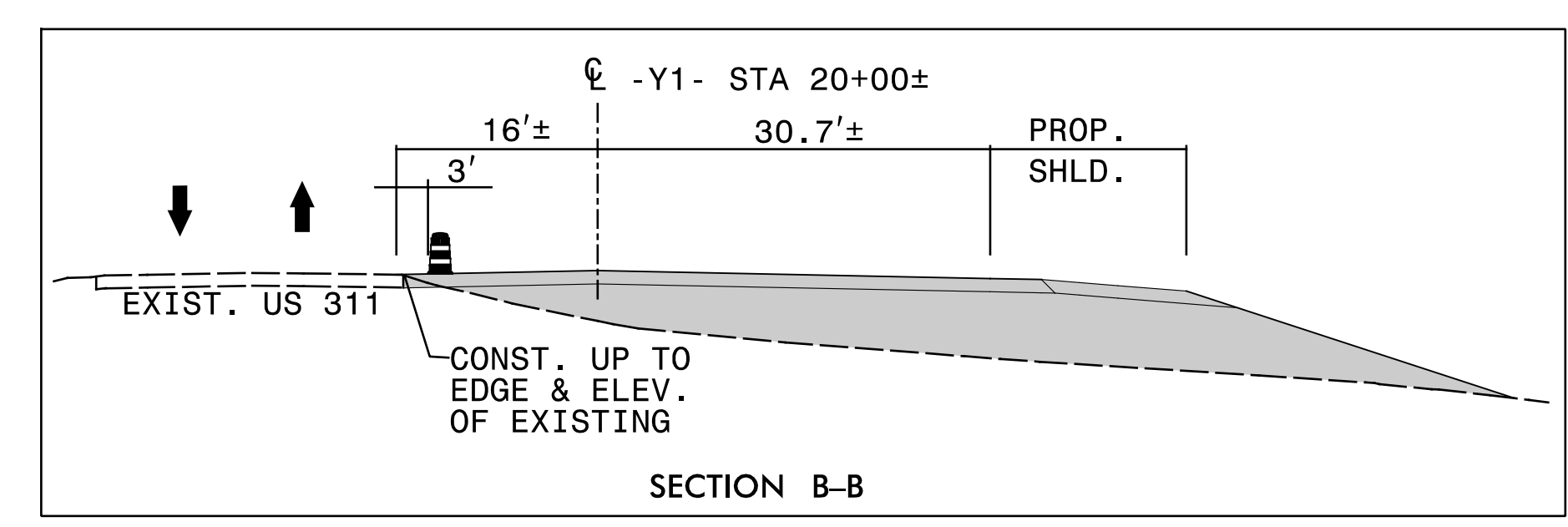
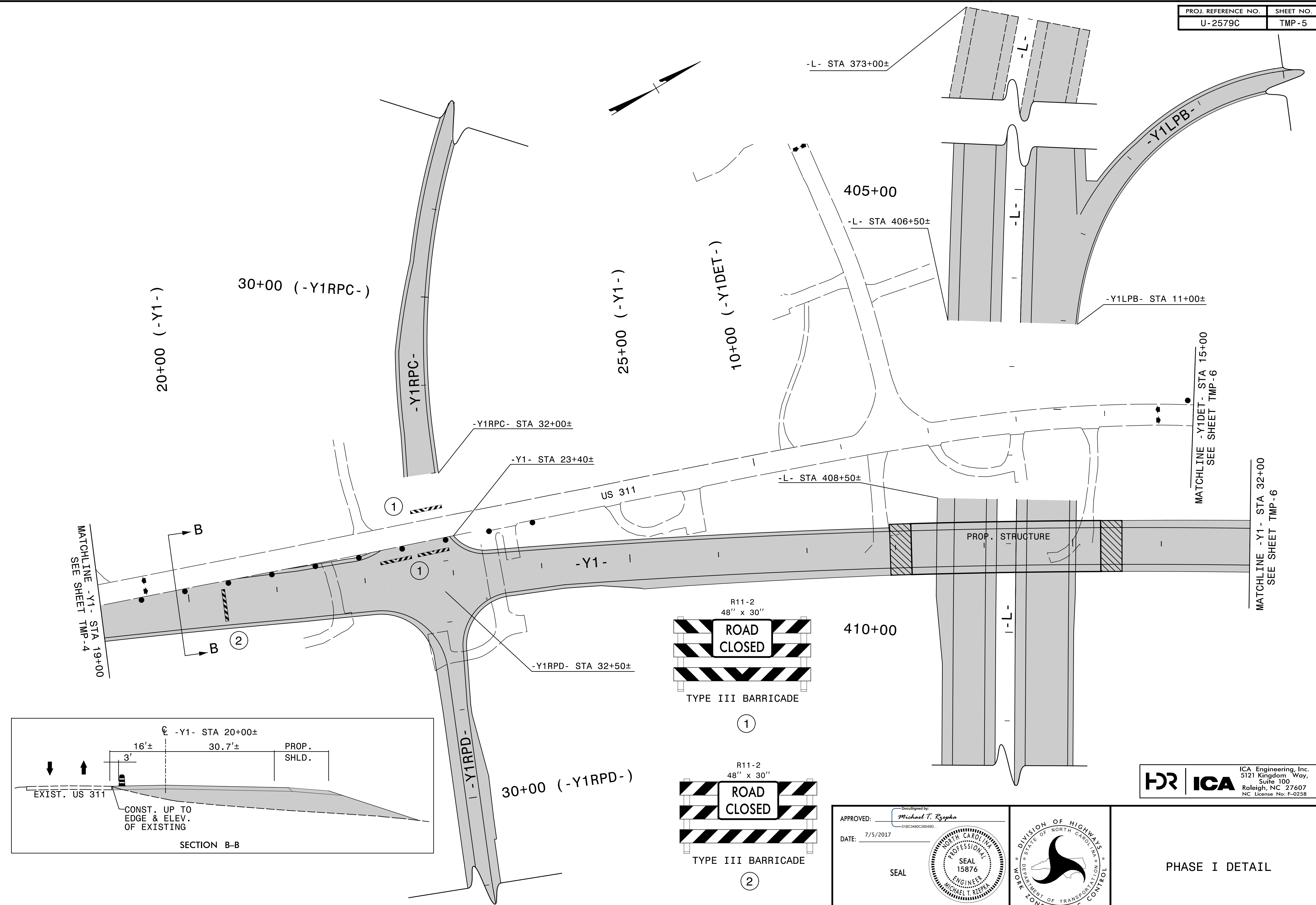
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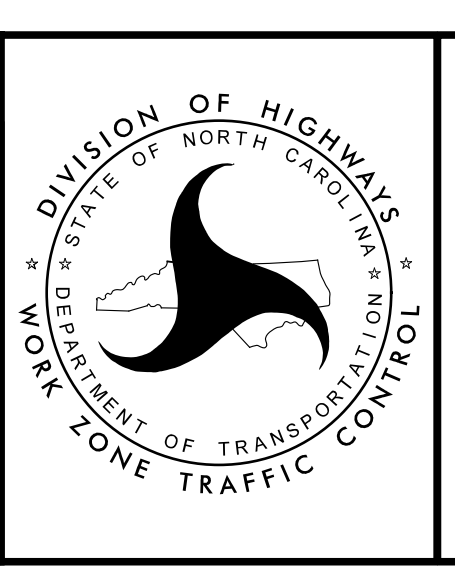
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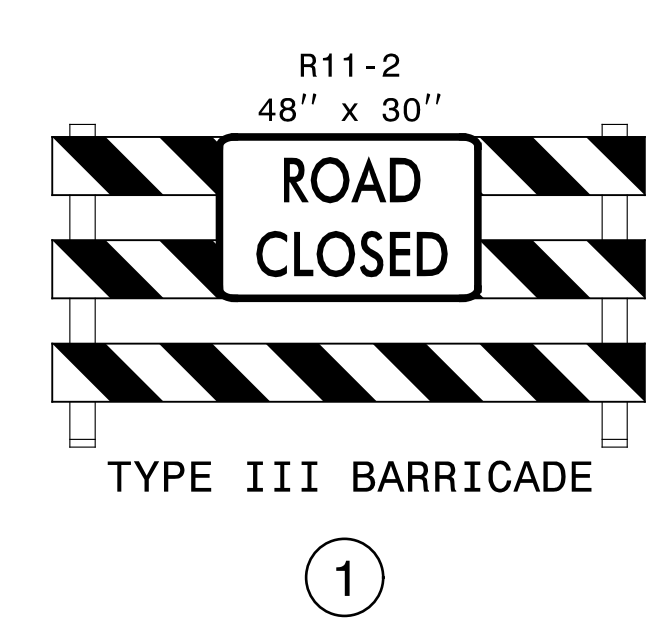
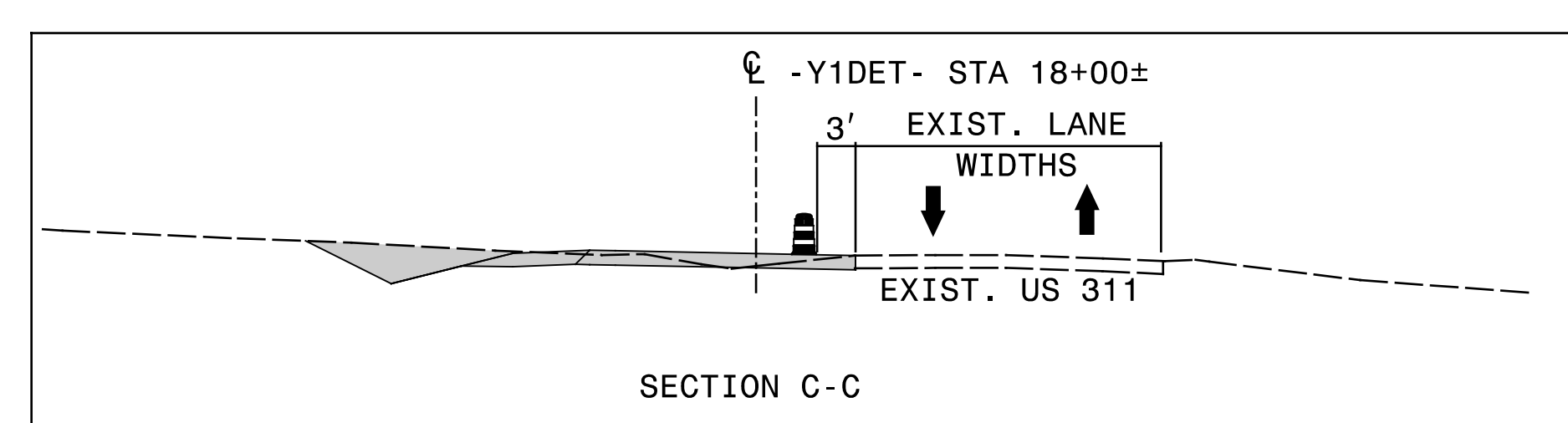
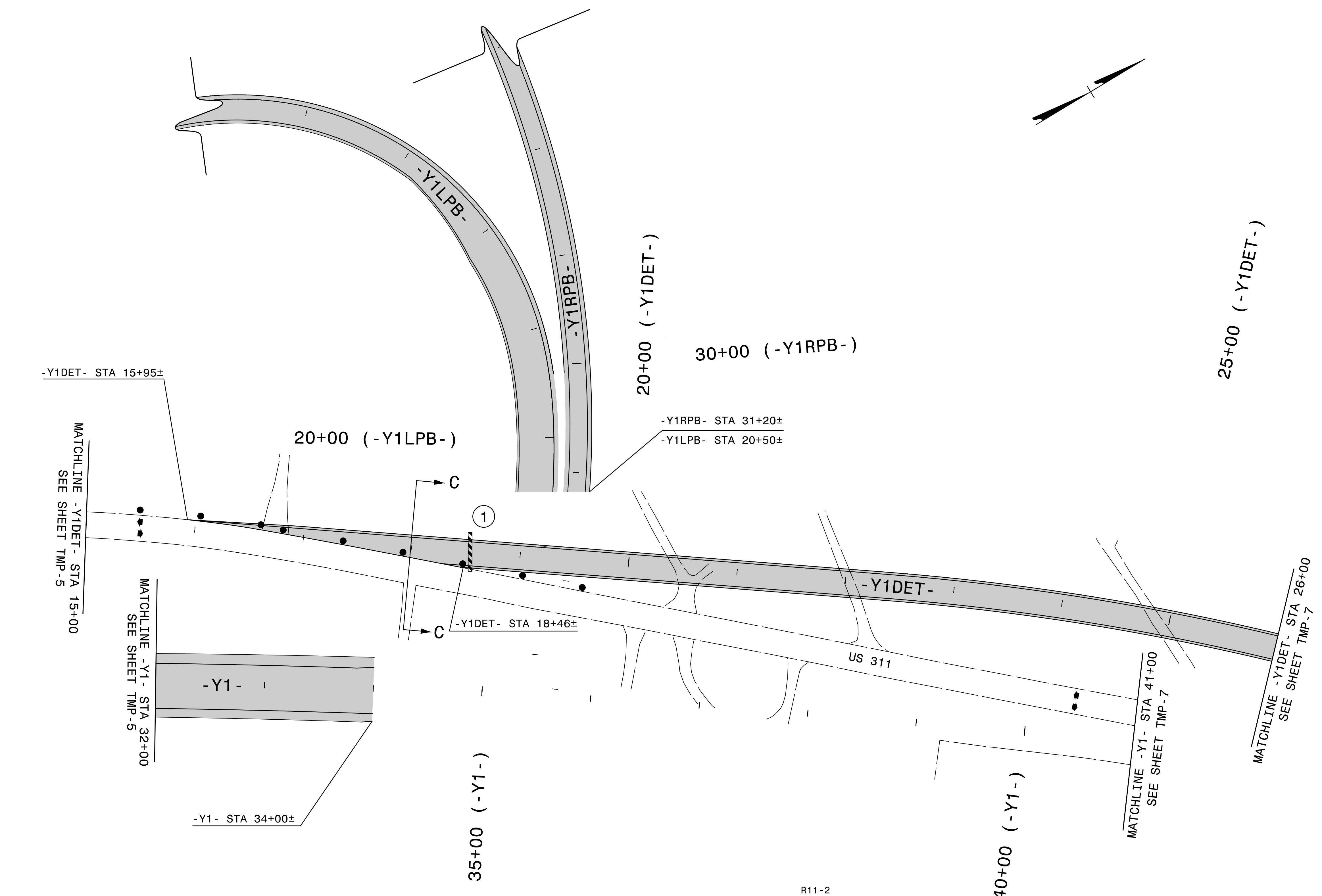
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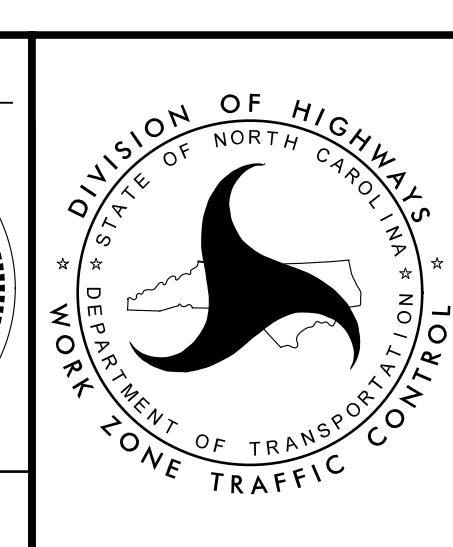
ICA Engineering, Inc.
 5121 Kingdom Way,
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 Raleigh, NC 27607
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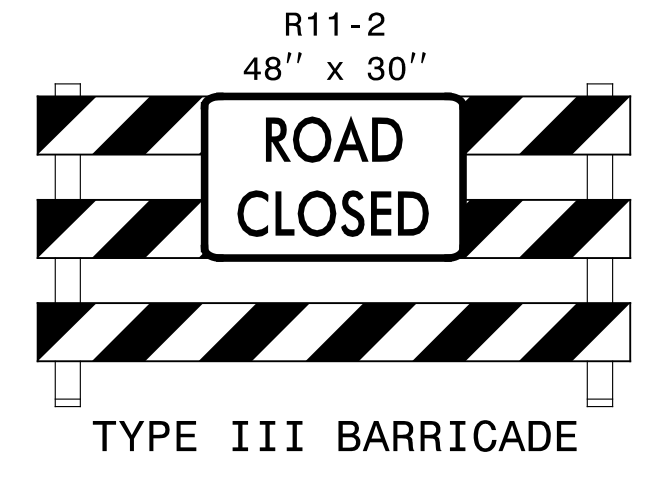
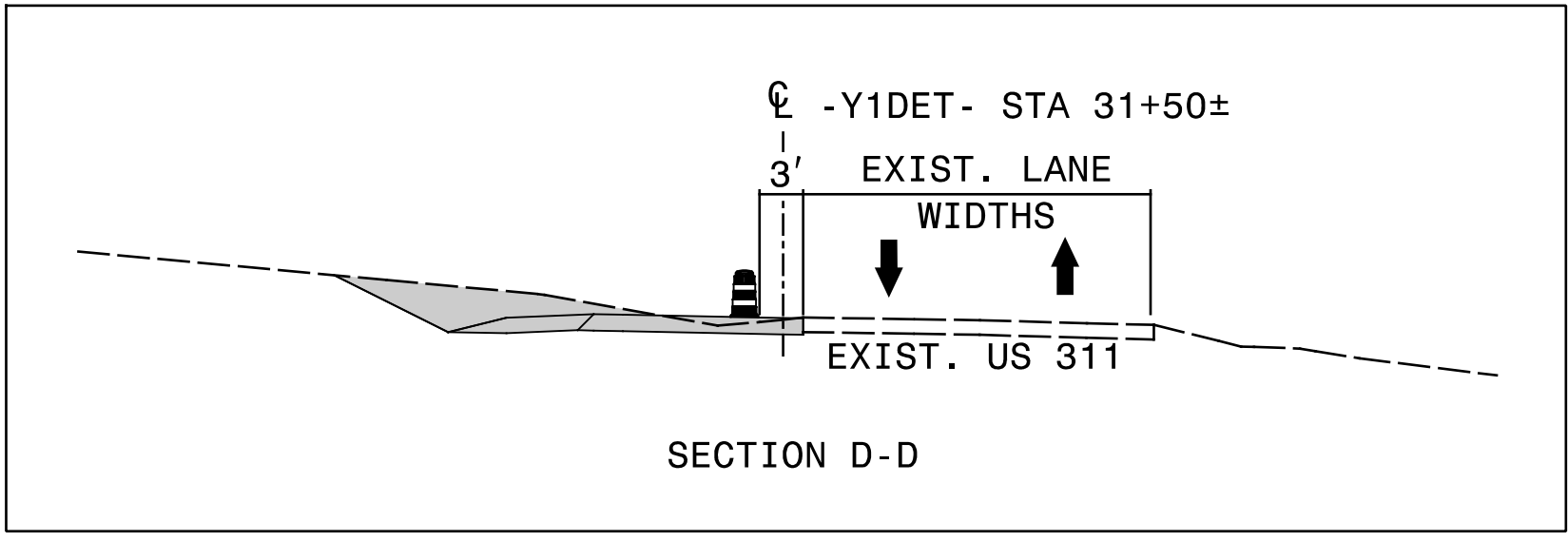
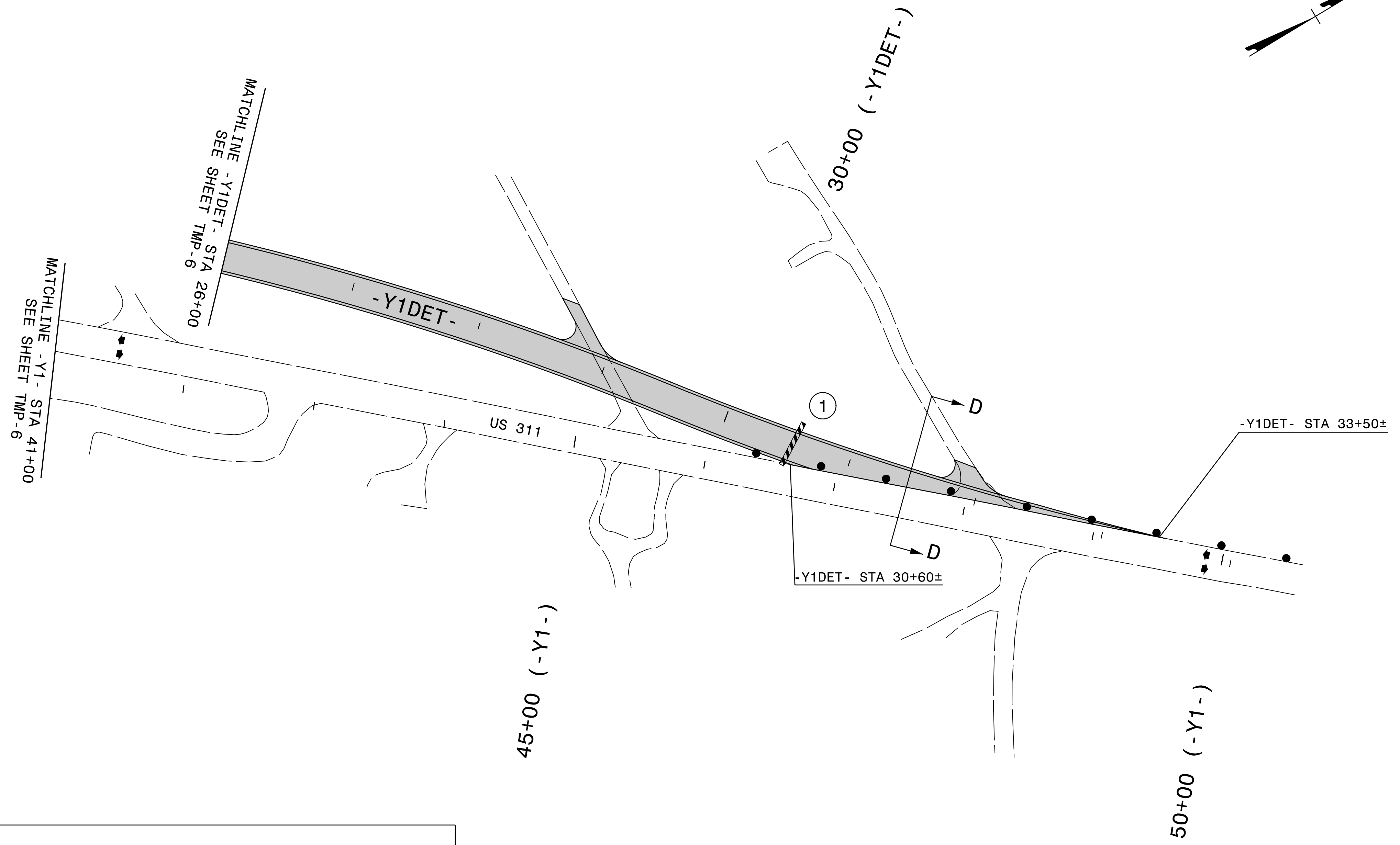


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PROFESSIONAL ENGINEER
SEAL 15876
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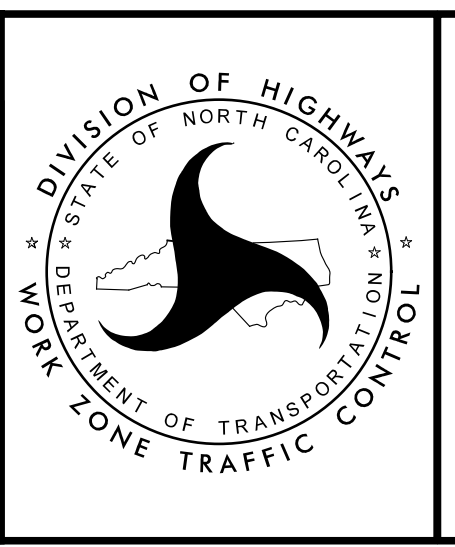
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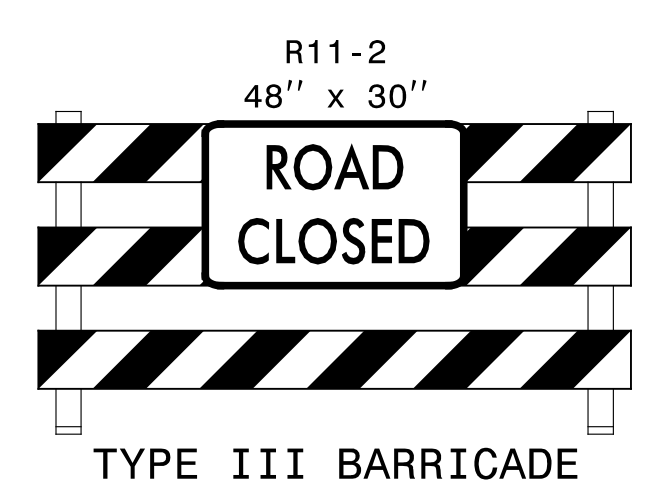
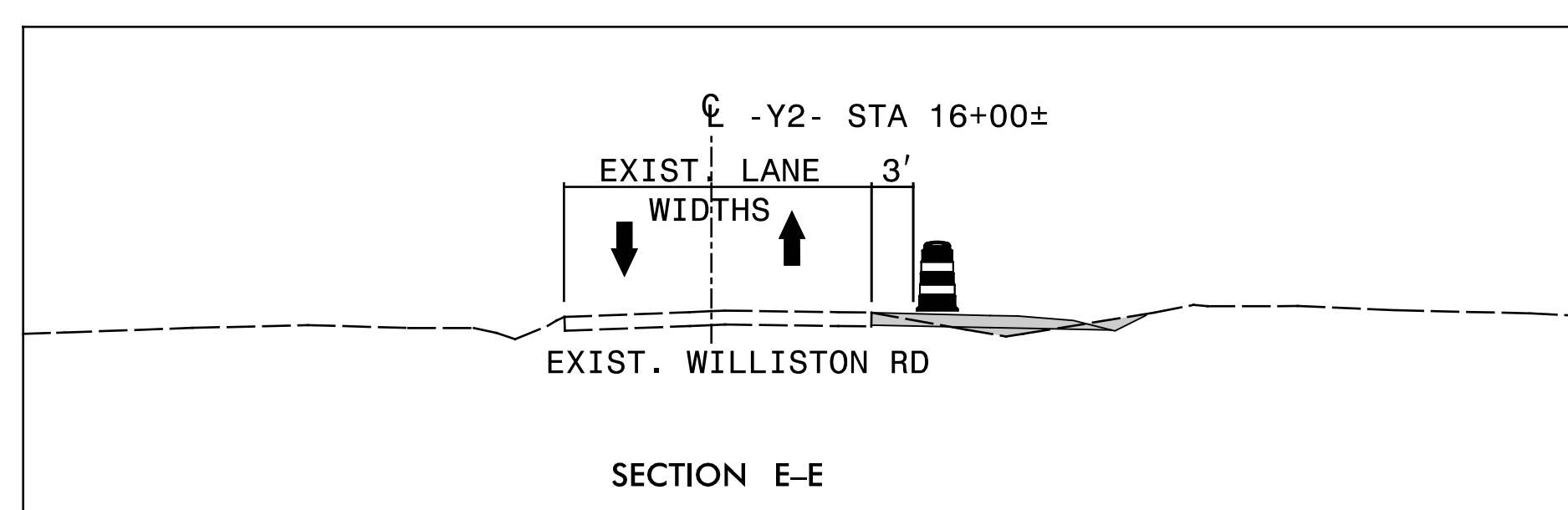
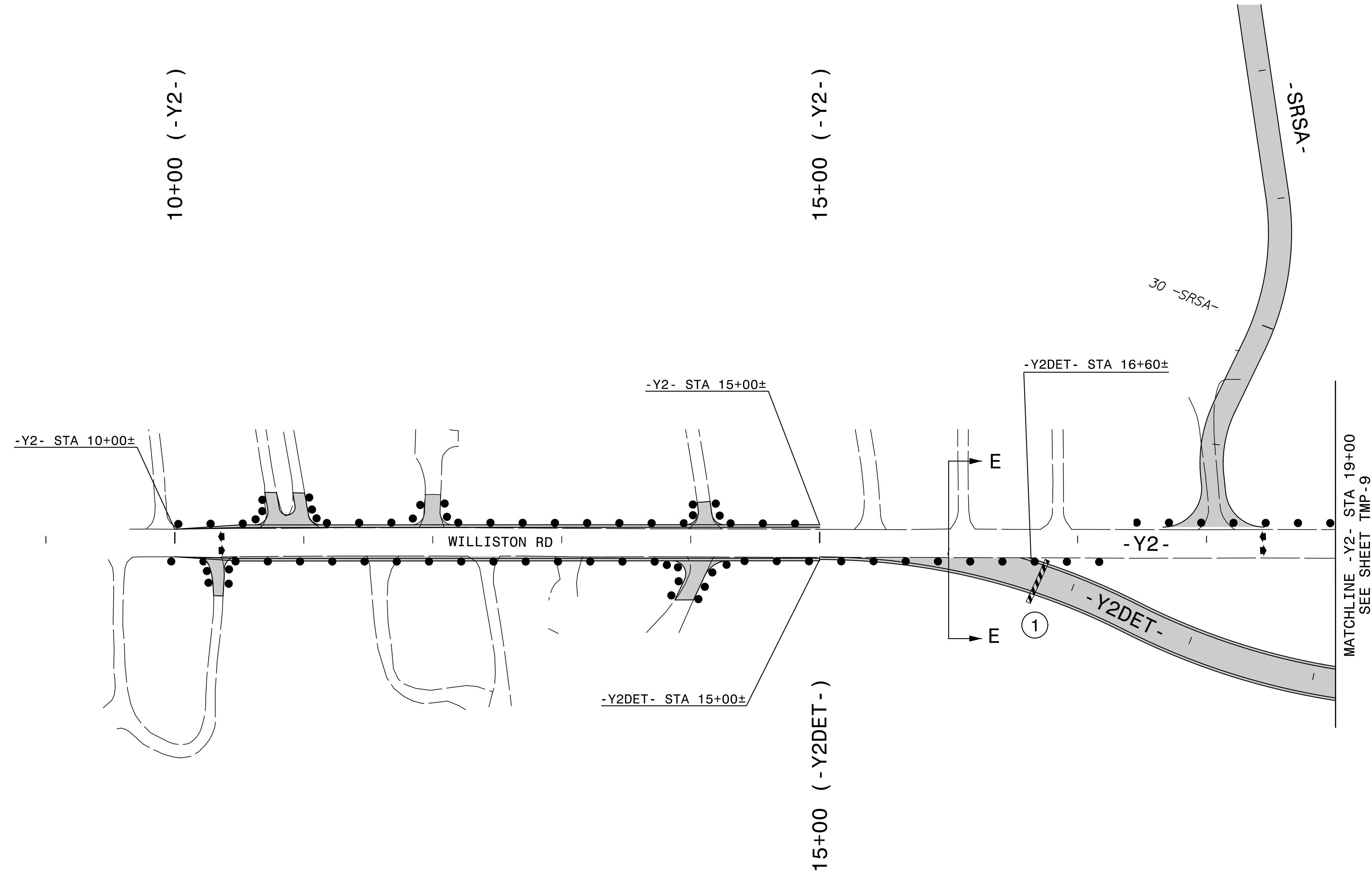
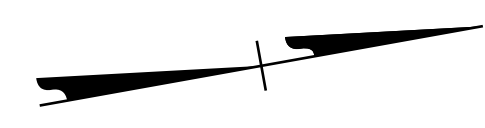
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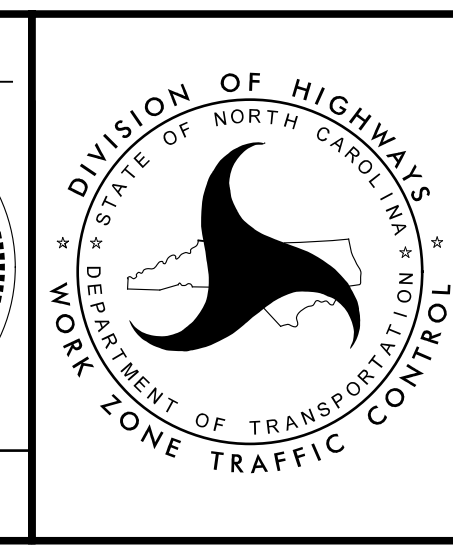
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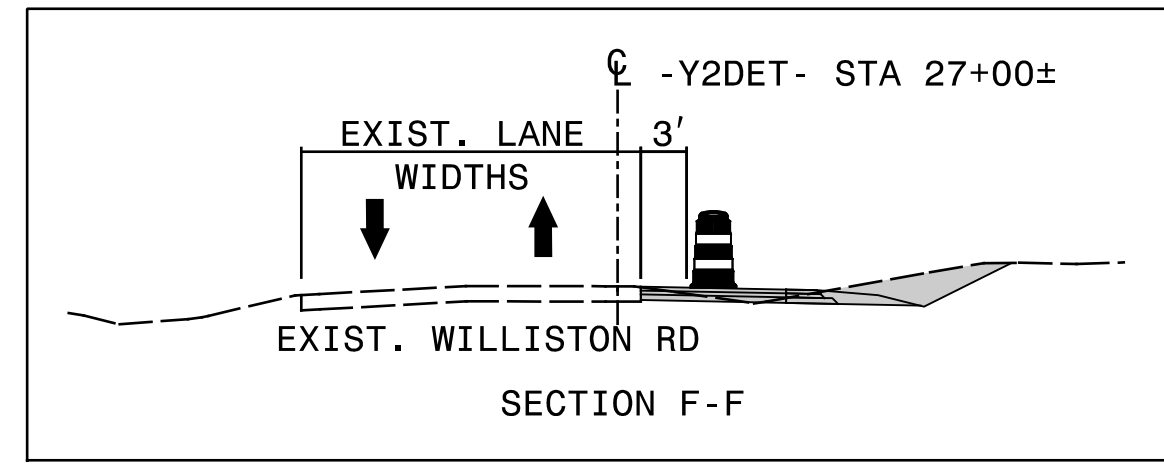
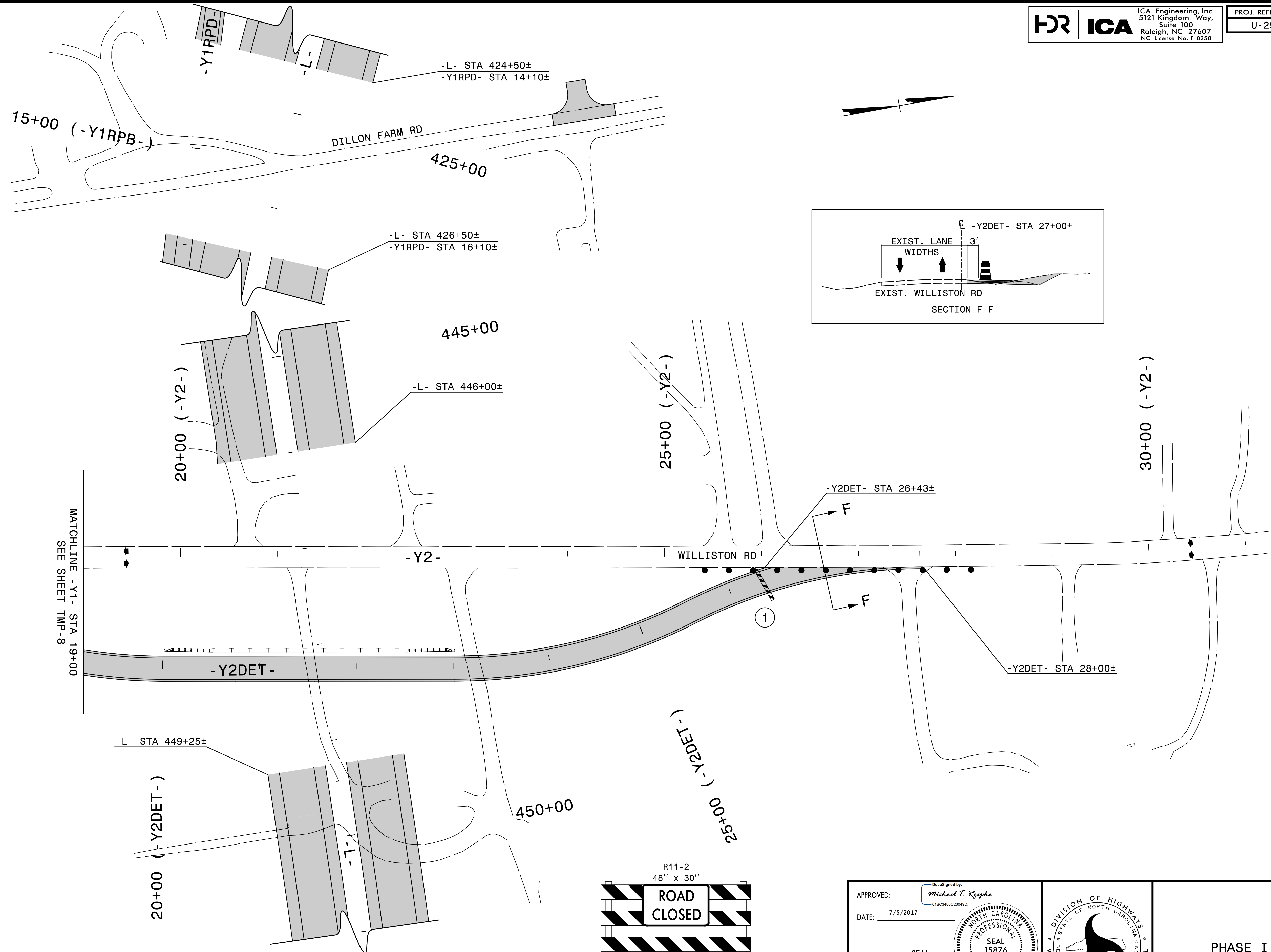
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Professional Engineer Seal: MICHAEL T. REPHA, 15876

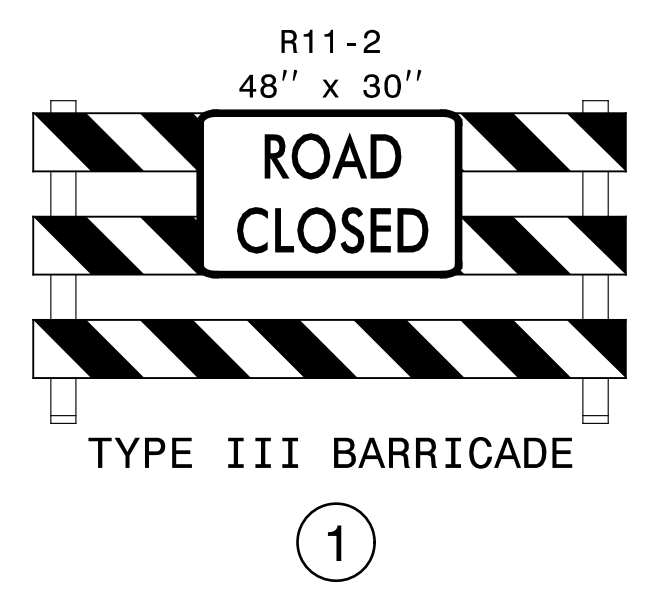


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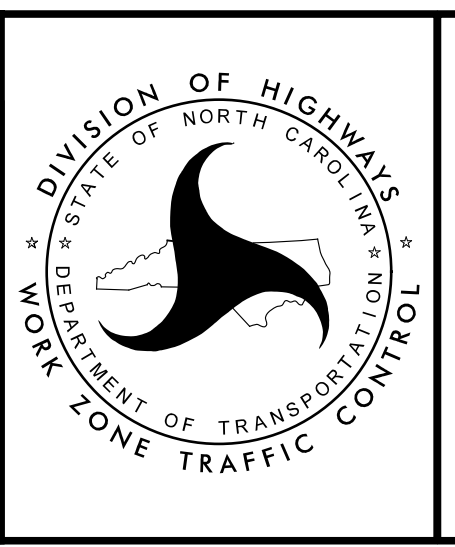


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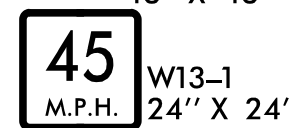
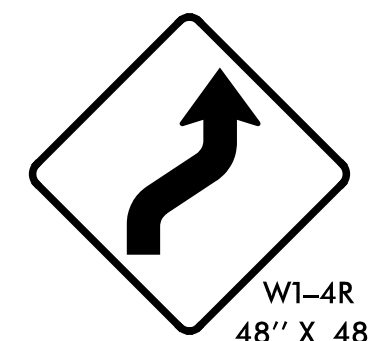
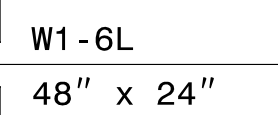
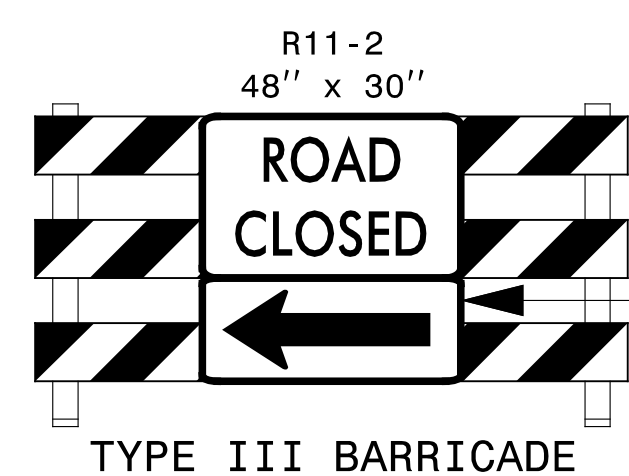
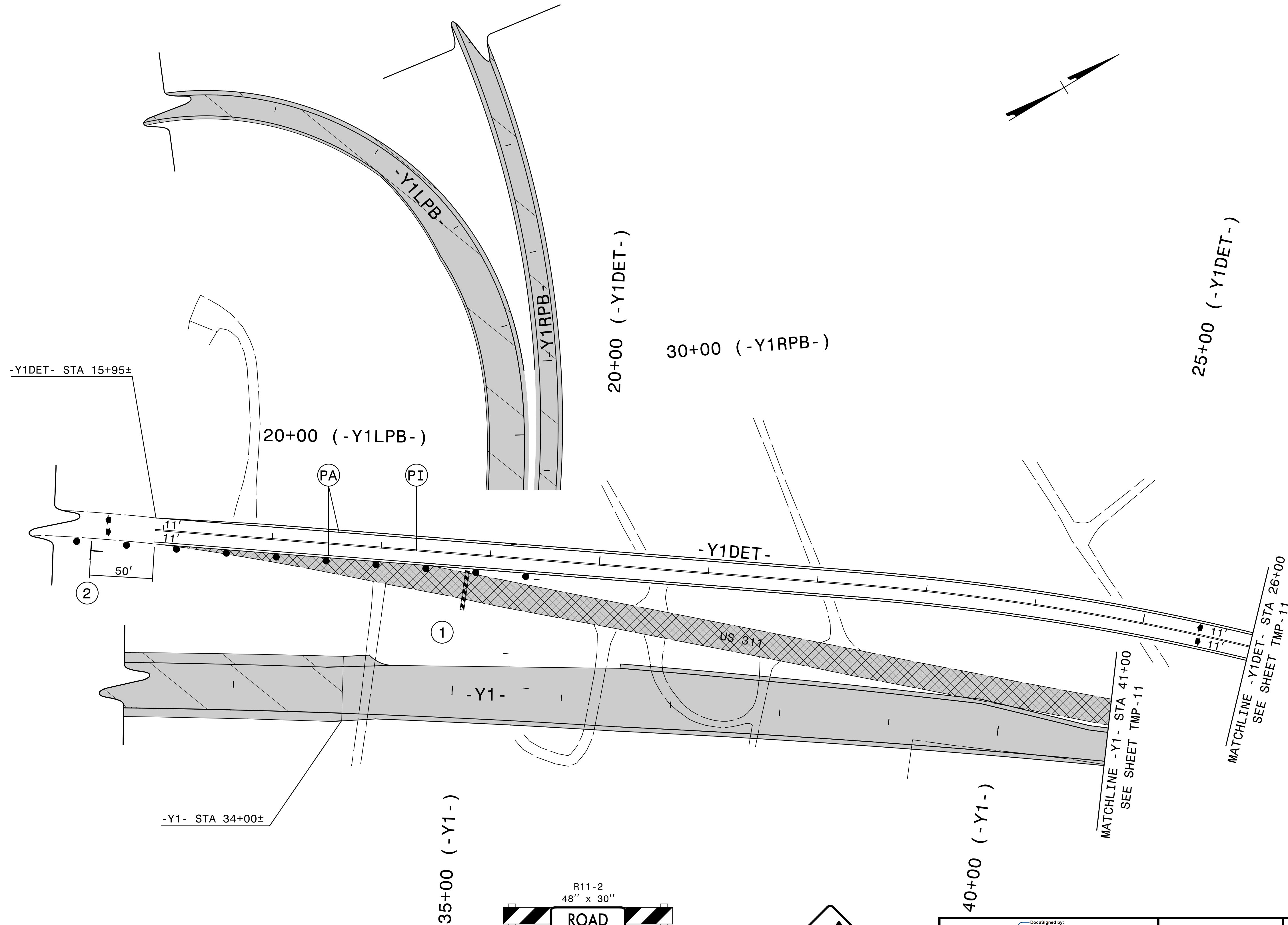


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MICHAEL T. RESPHA
PROFESSIONAL ENGINEER
SEAL 15876
NORTH CAROLINA

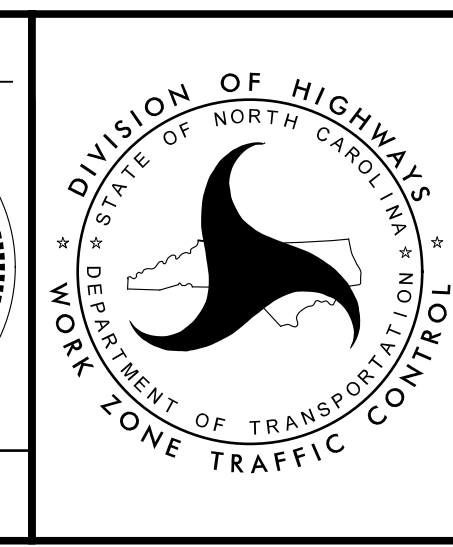
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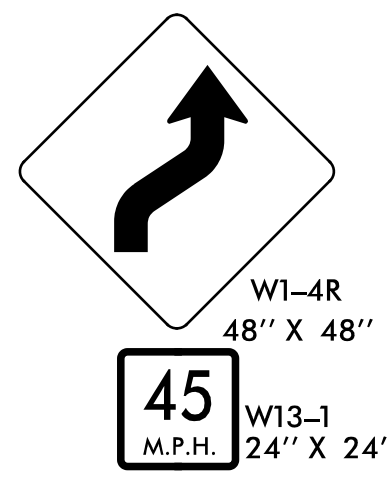
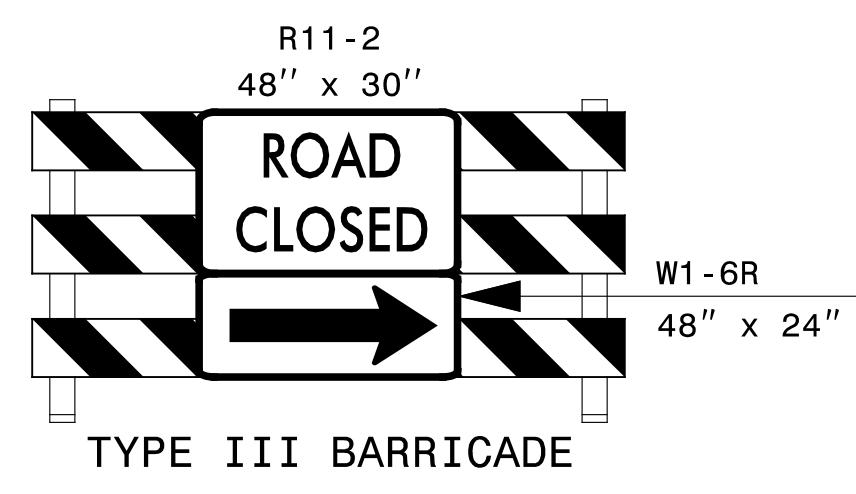
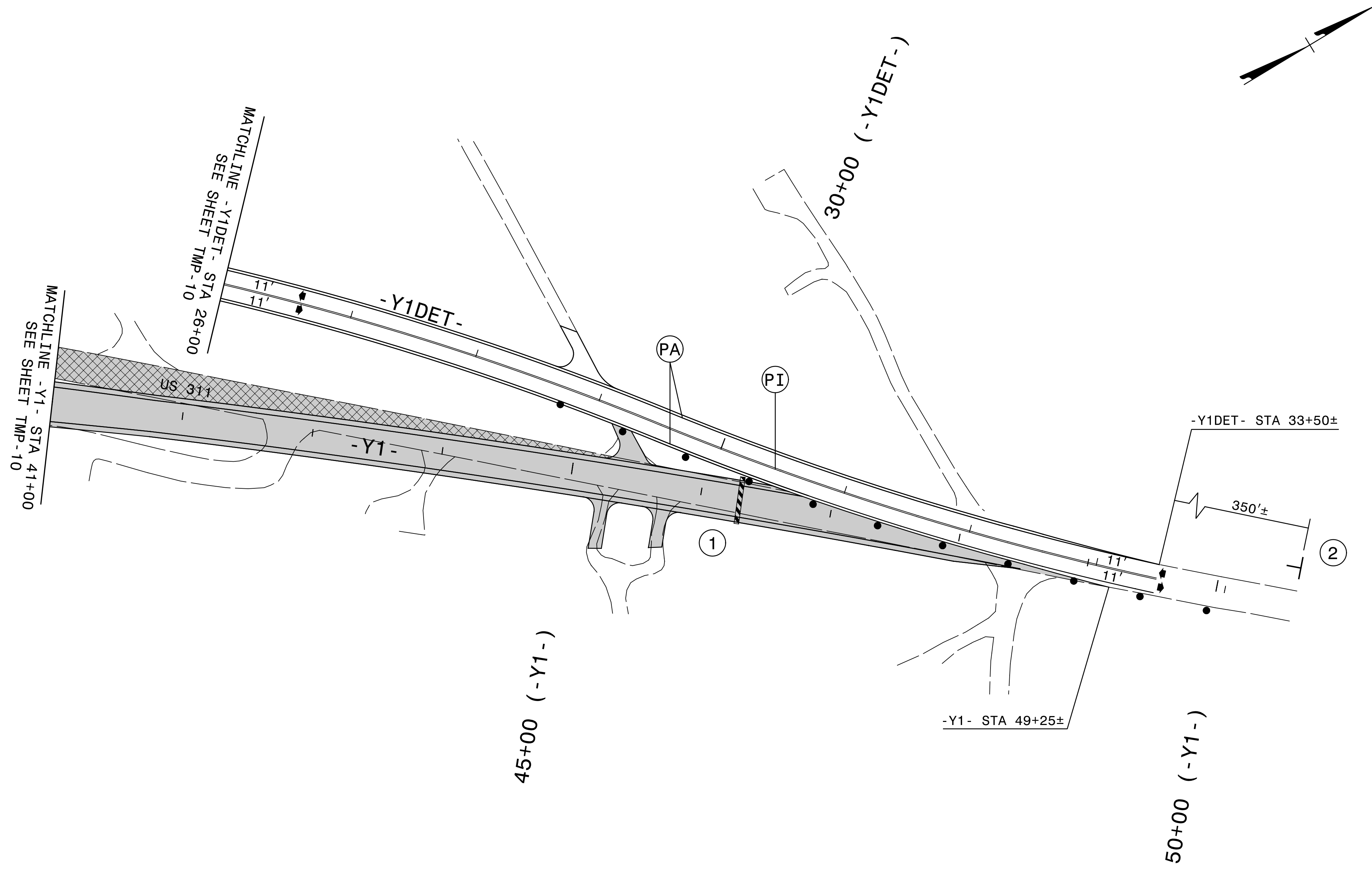


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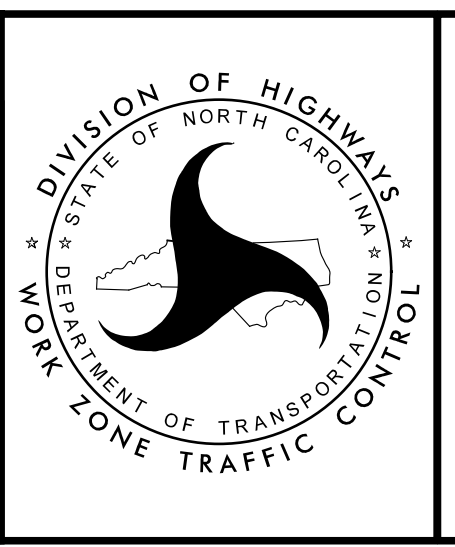


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DATE: 7/5/2017

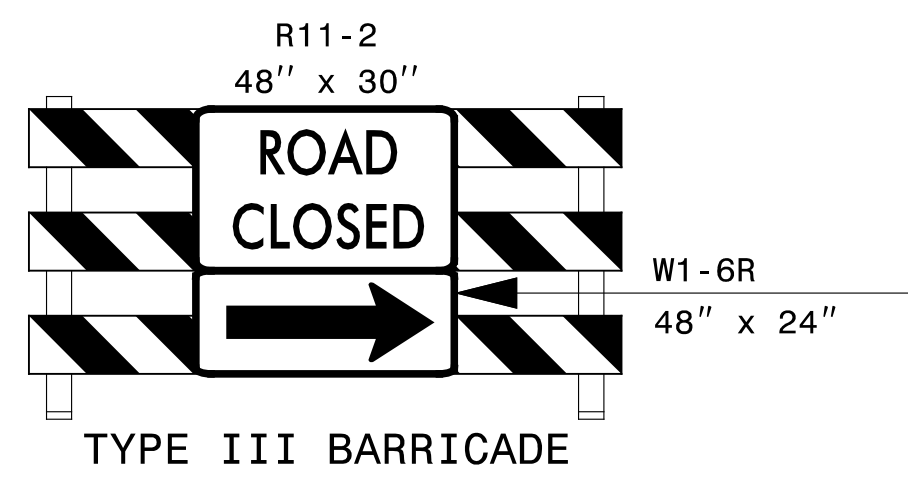
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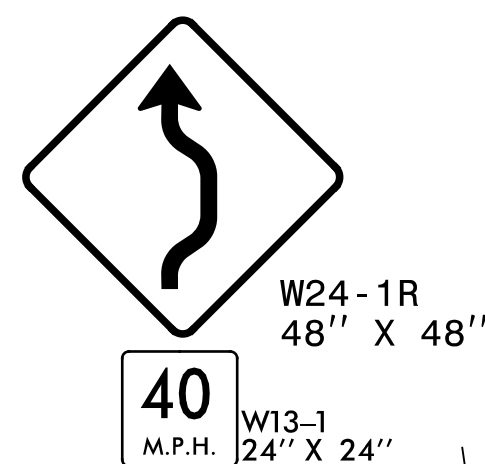


PHASE II DETAIL

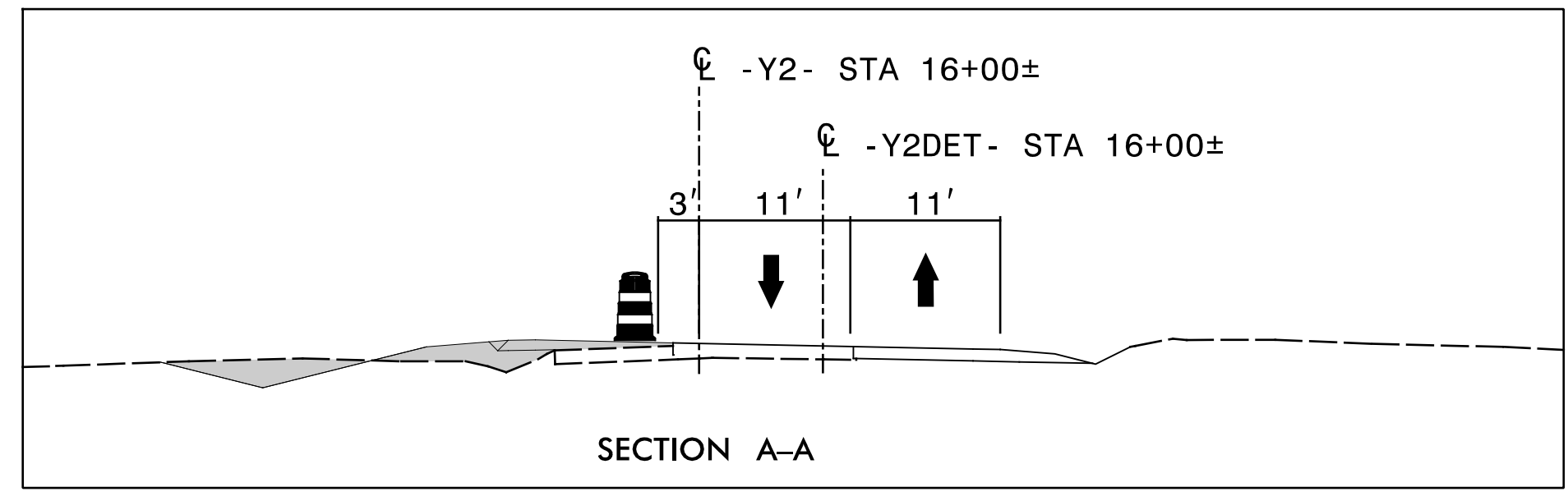
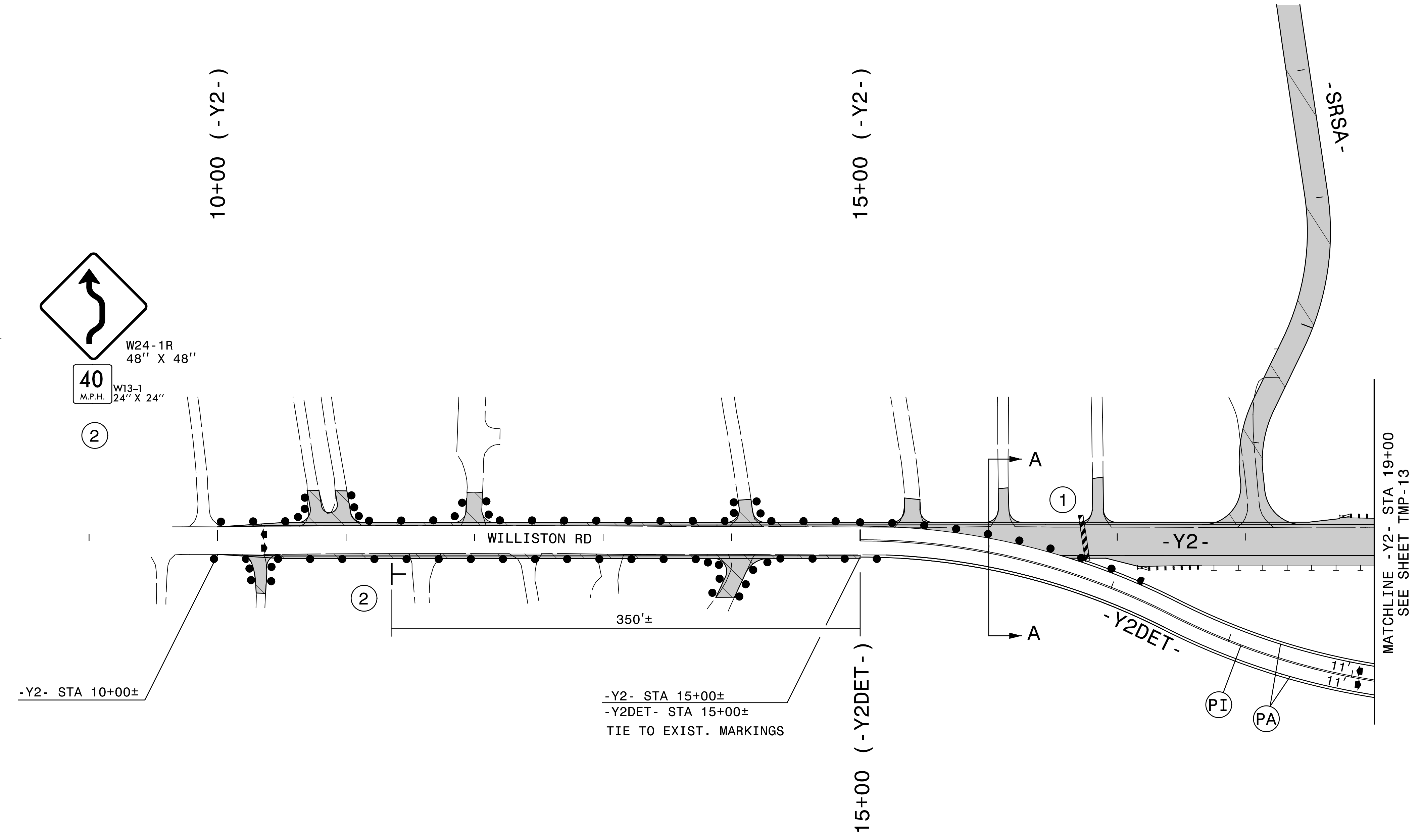
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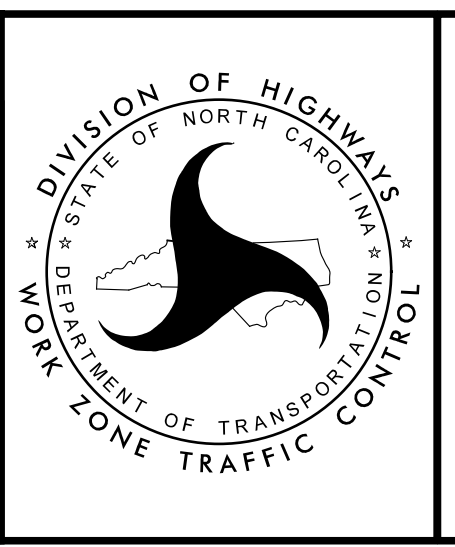
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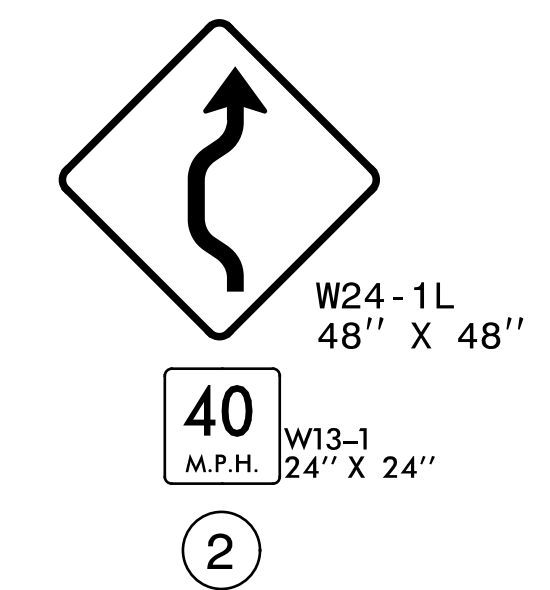
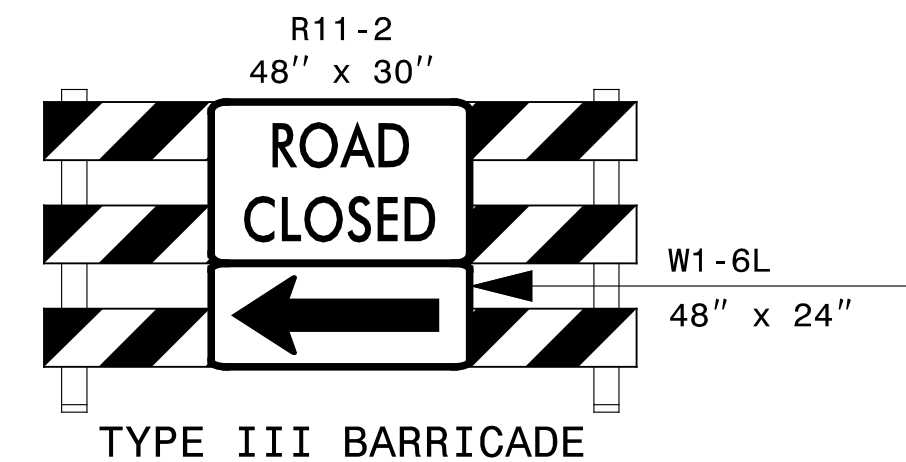
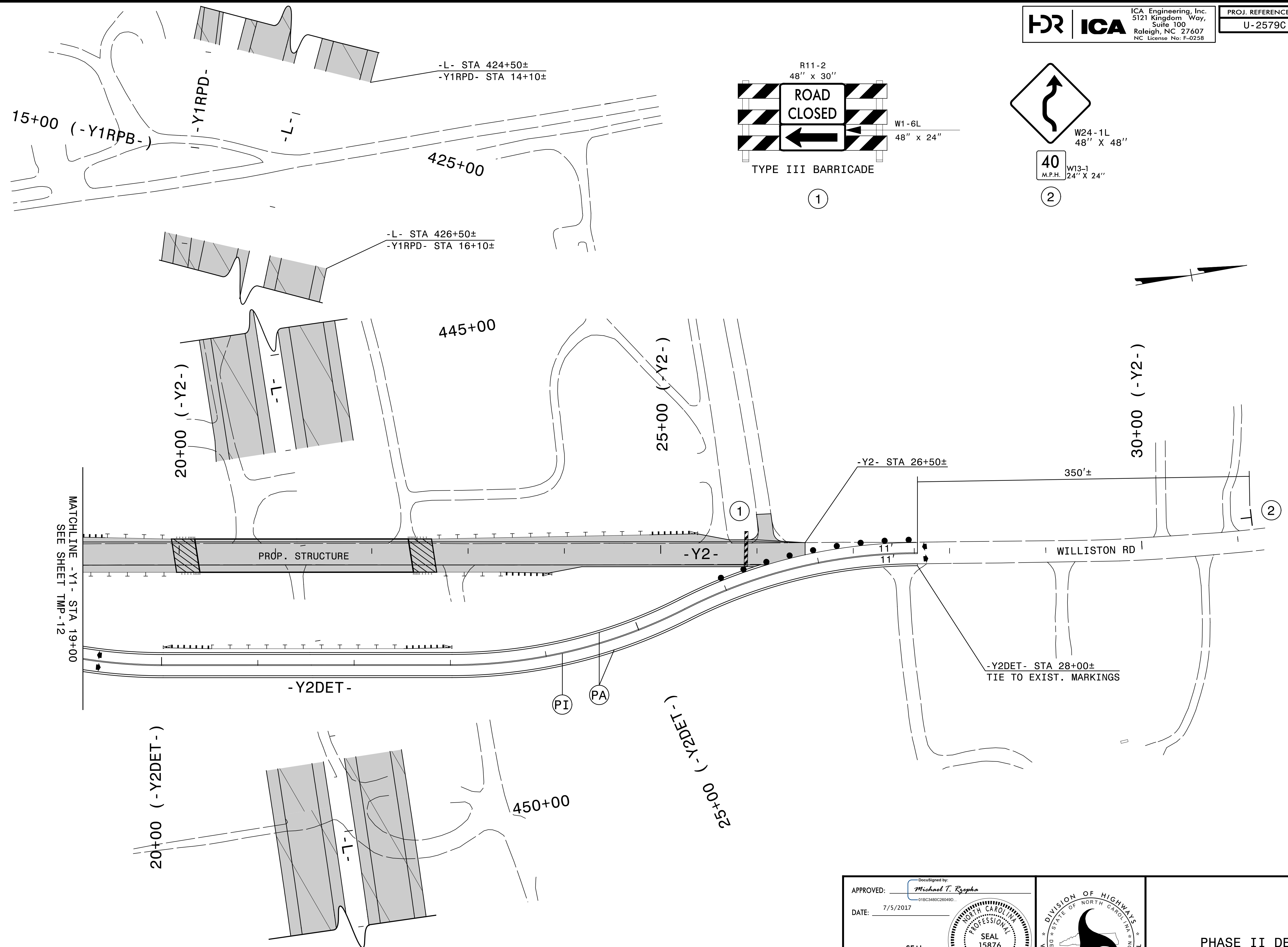


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DEPARTMENT OF TRANSPORTATION
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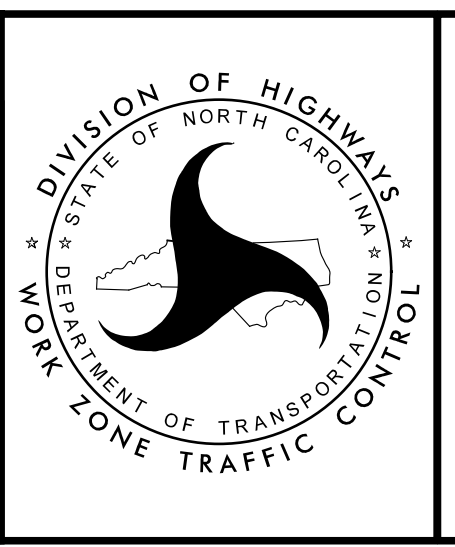
APPROVED: *Michael T. Rzepka*
DocuSigned by:
Michael T. Rzepka
018C3480C26049D...

DATE: 7/5/2017

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15876
MICHAEL T. RZEPKA
ENGINEER
NORTH CAROLINA

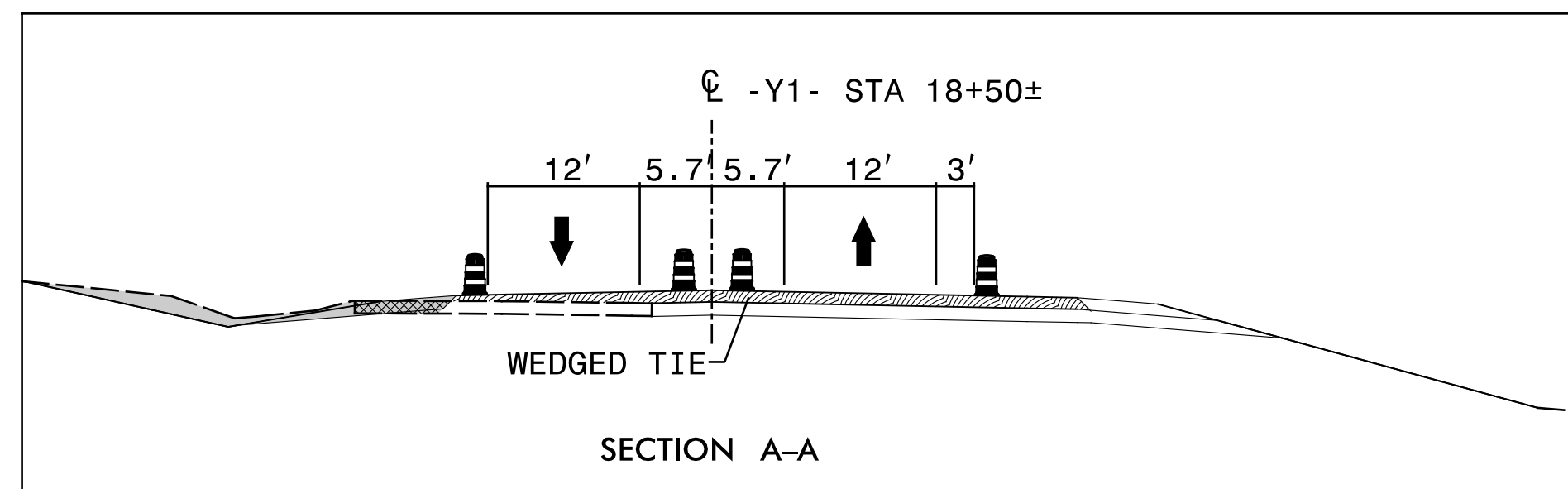
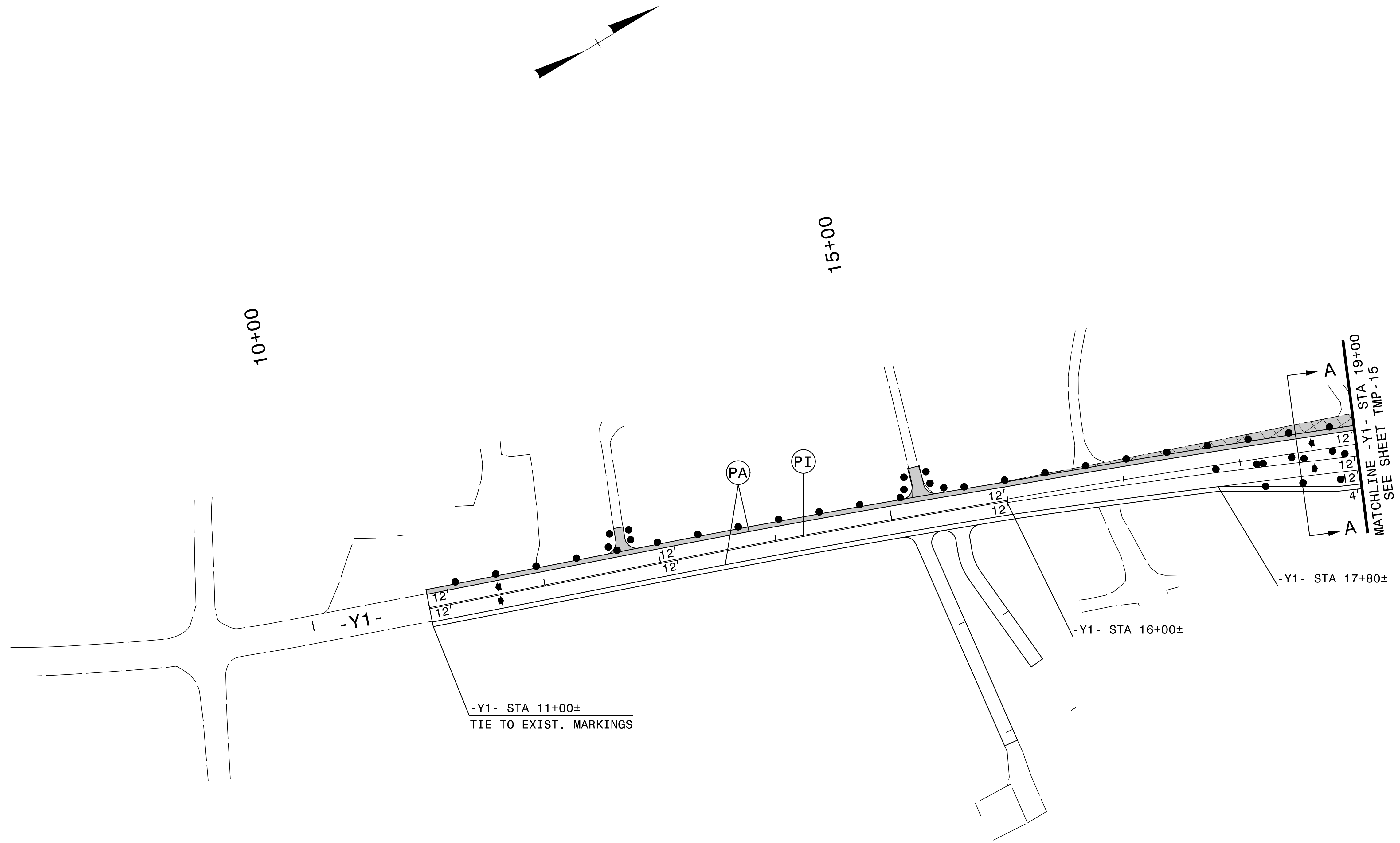
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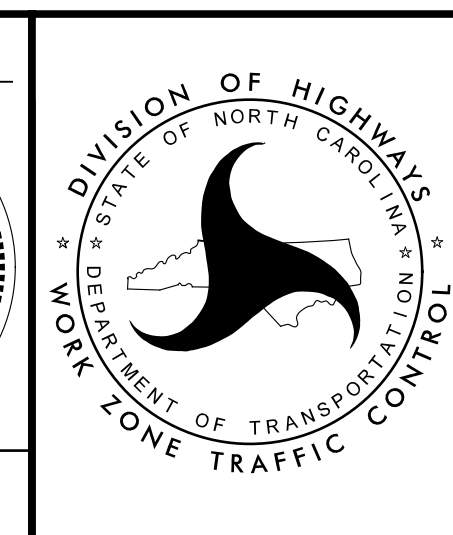
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01BC3480C28049D

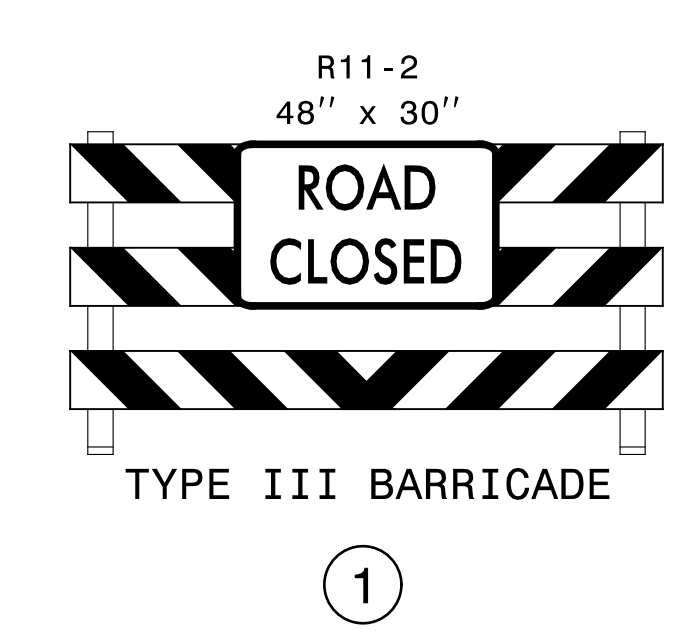
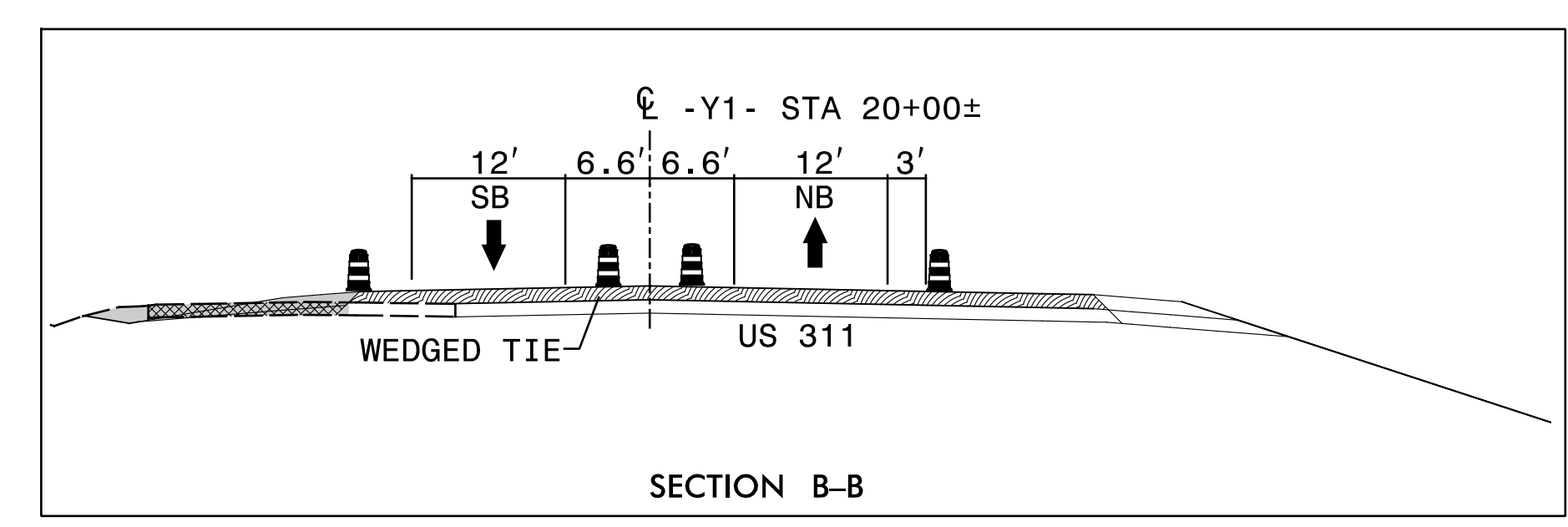
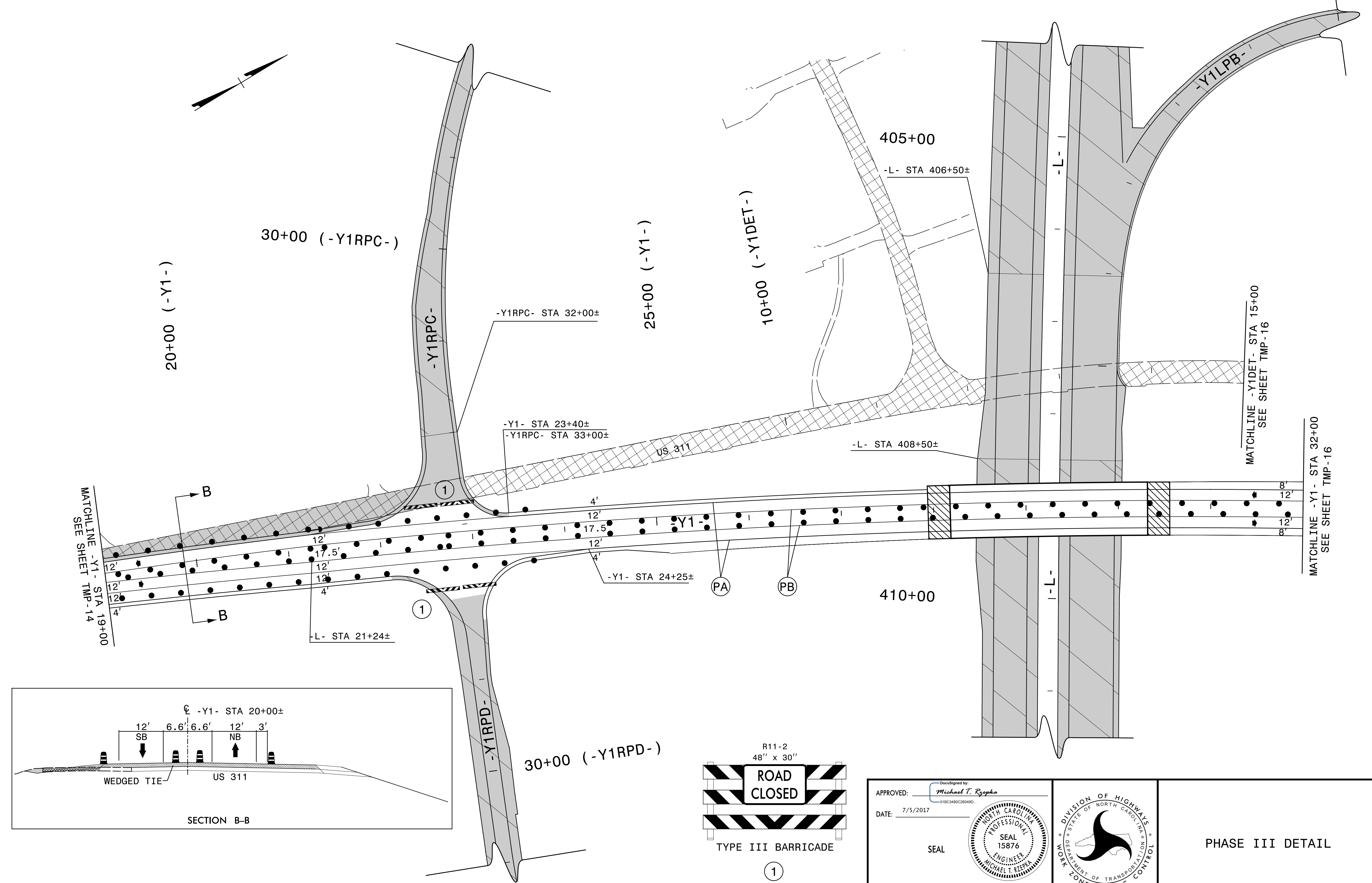
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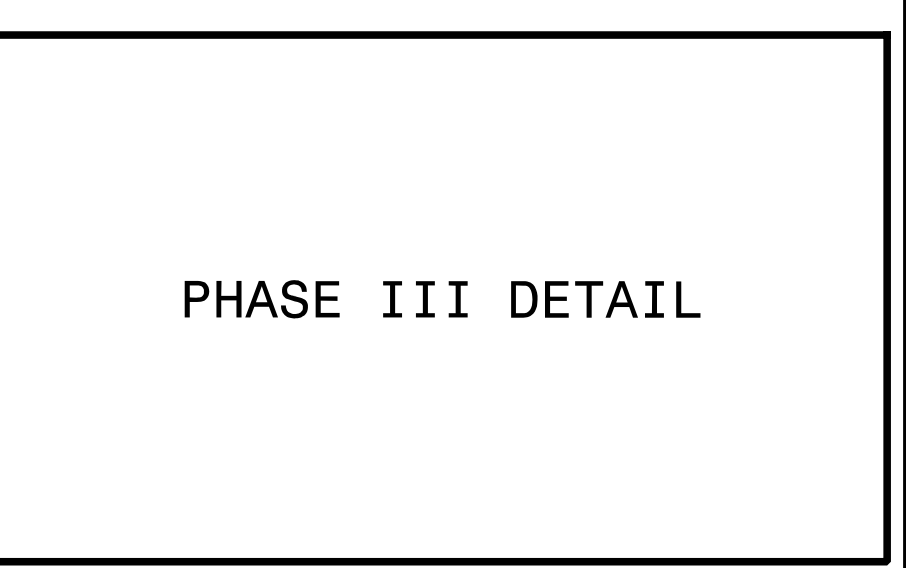
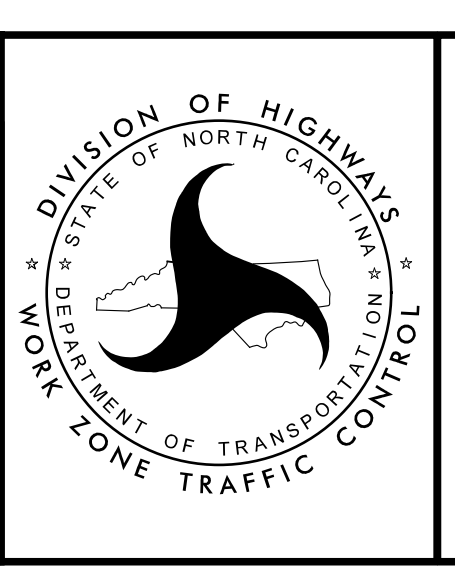
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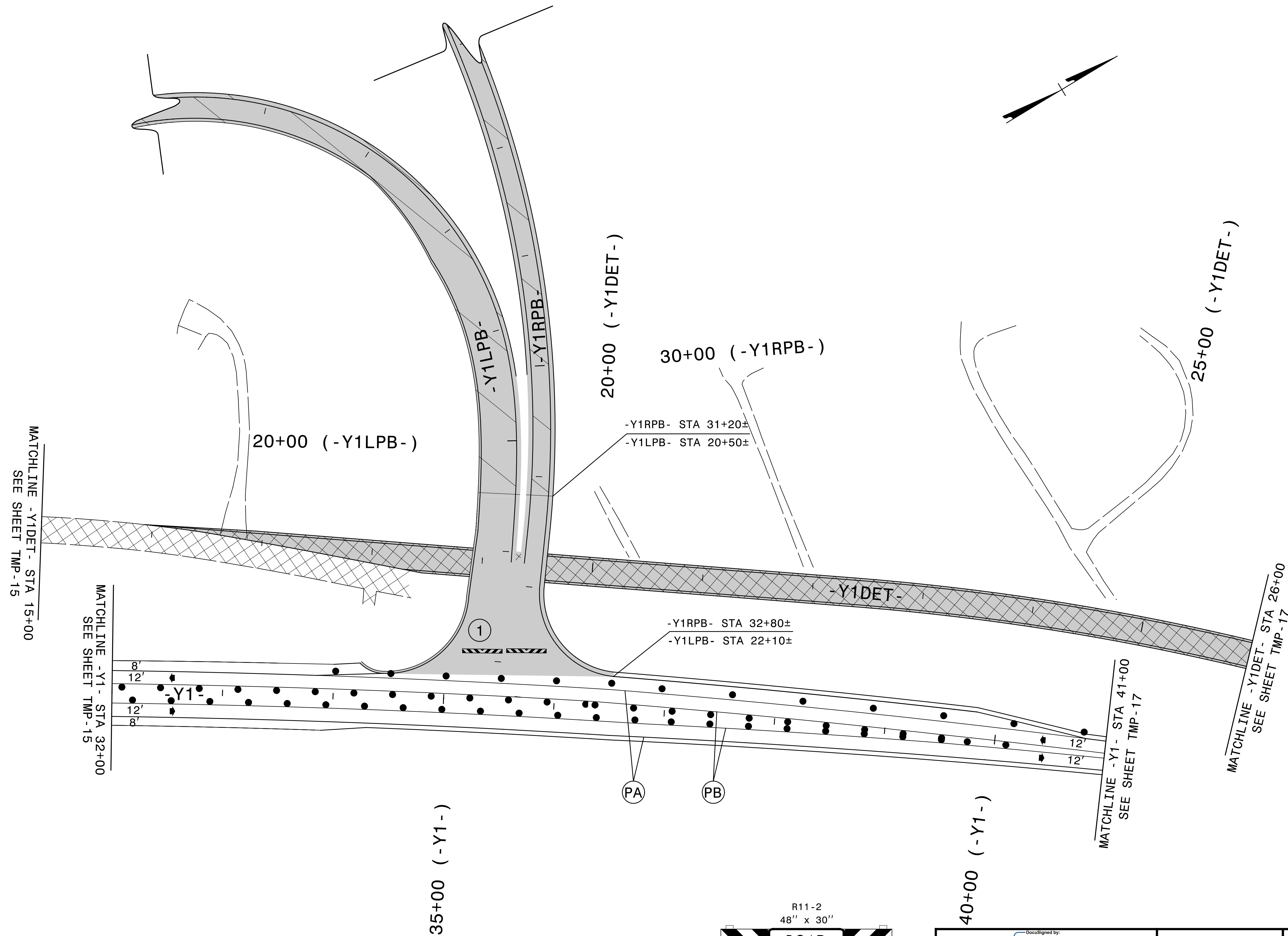
PHASE III DETAIL



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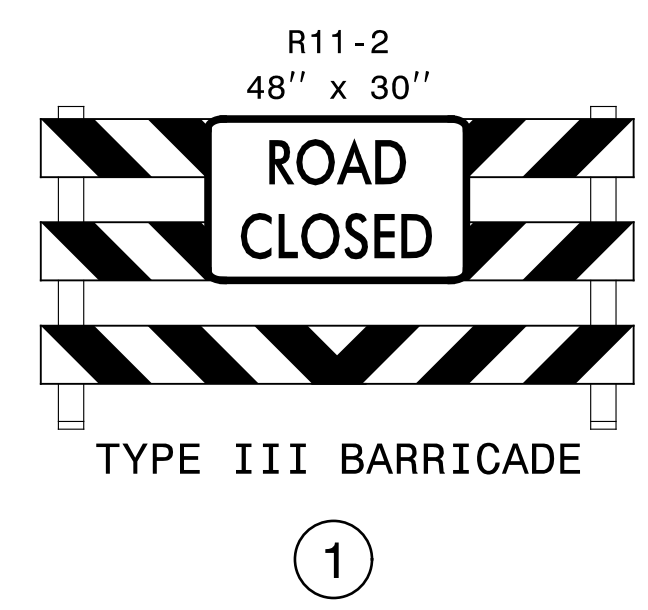


MATCHLINE -Y1DET- STA 15+00
SEE SHEET TMP-15

MATCHLINE -Y1- STA 32+00
SEE SHEET TMP-15

MATCHLINE -Y1- STA 41+00
SEE SHEET TMP-17

MATCHLINE -Y1DET- STA 26+00
SEE SHEET TMP-17

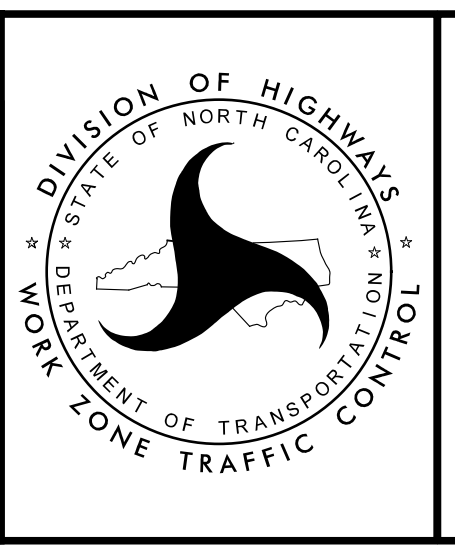


40+00 (-Y1-)

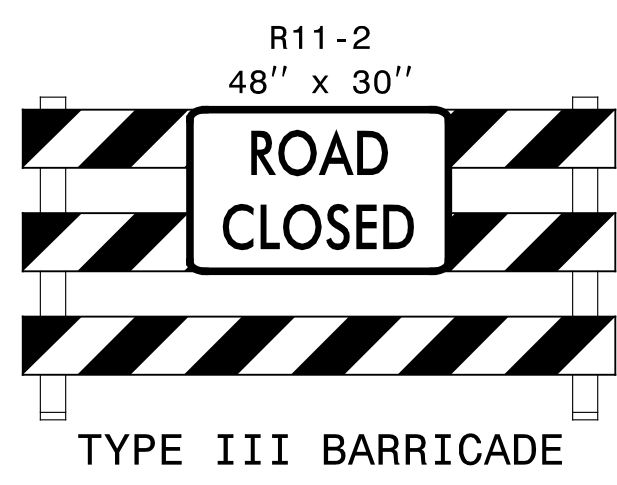
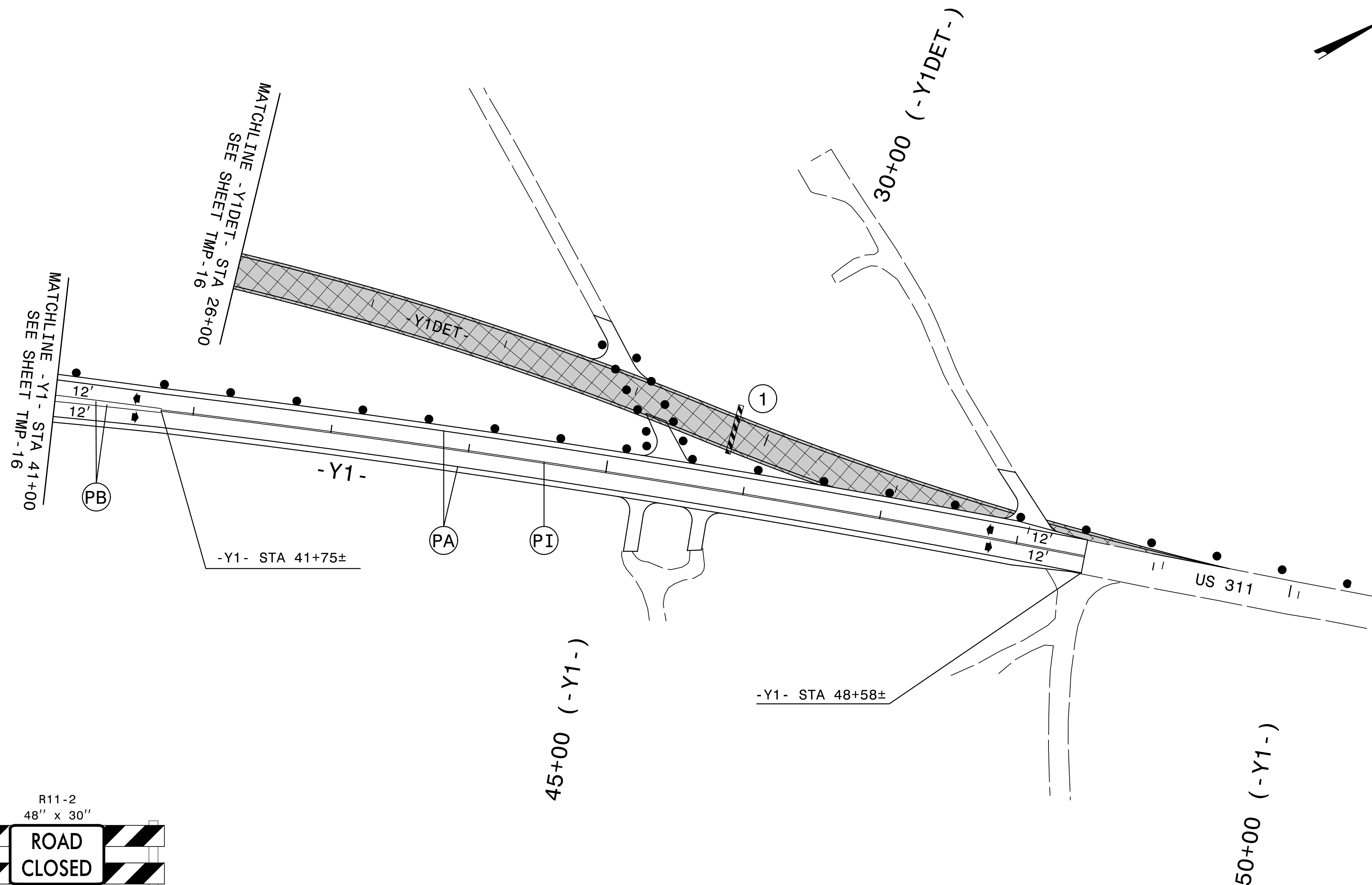
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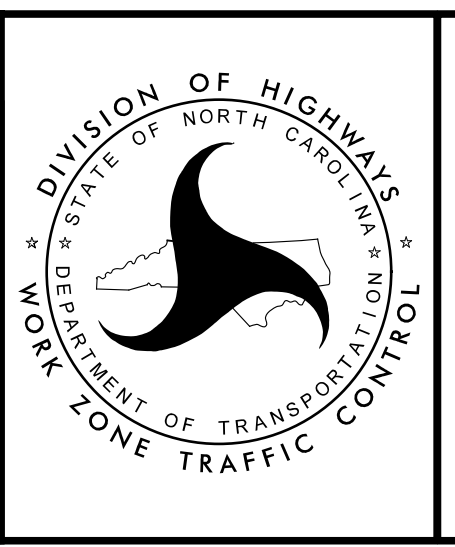
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 019C3480C280490...

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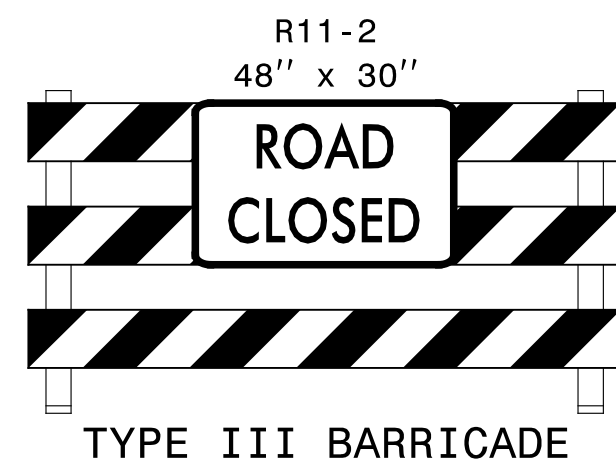
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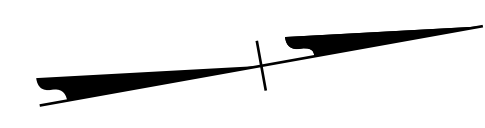


PHASE III DETAIL

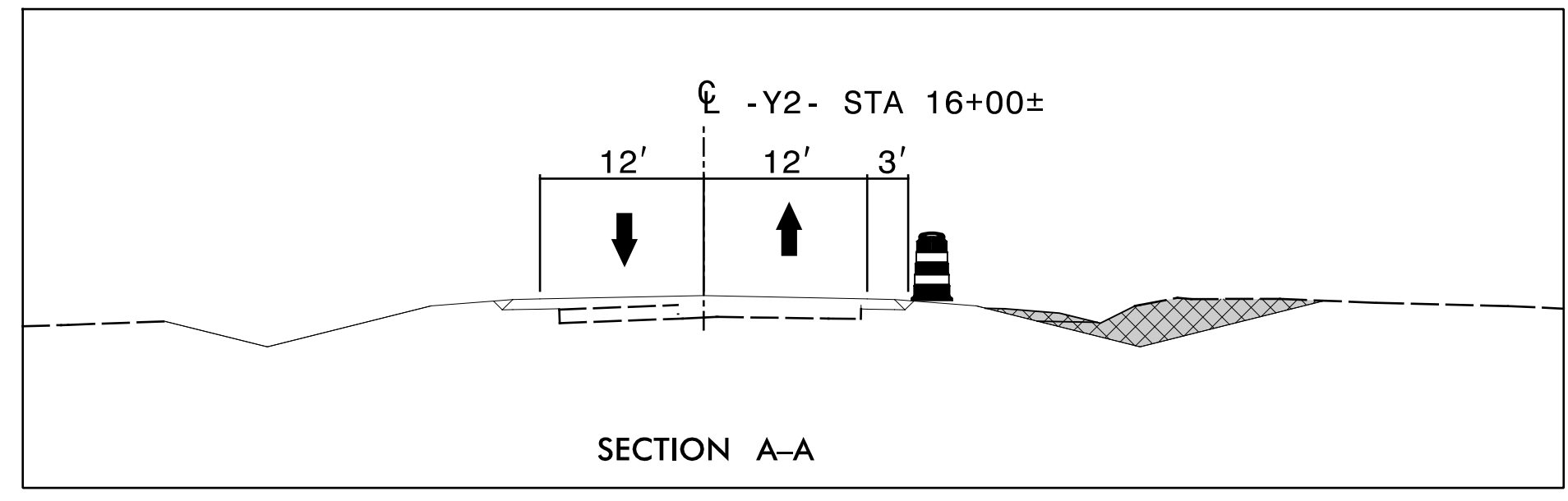
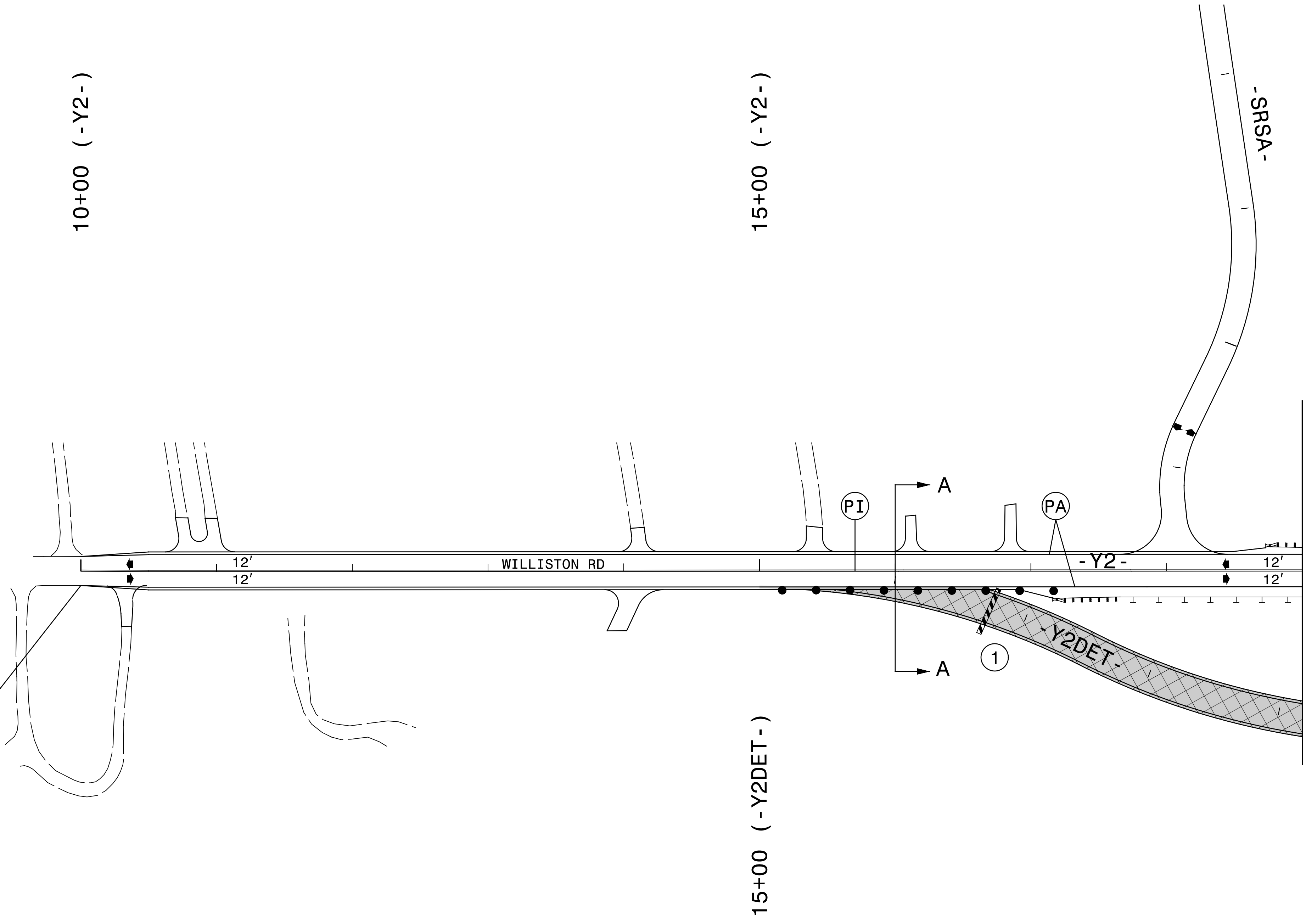
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-Y2- STA 10+00±
TIE TO EXIST. MARKINGS

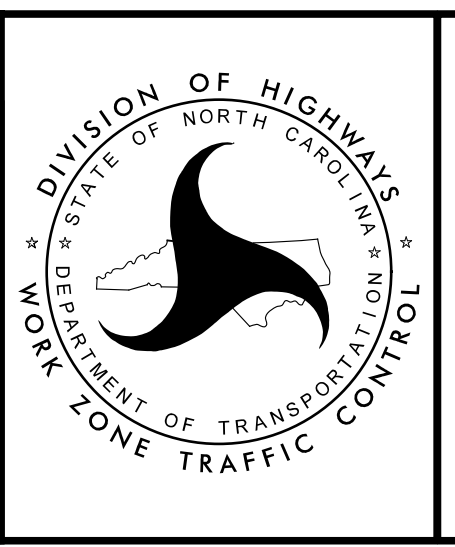


SECTION A-A

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DocuSigned by:
Michael T. Rzepka
01BC3480C28046D...

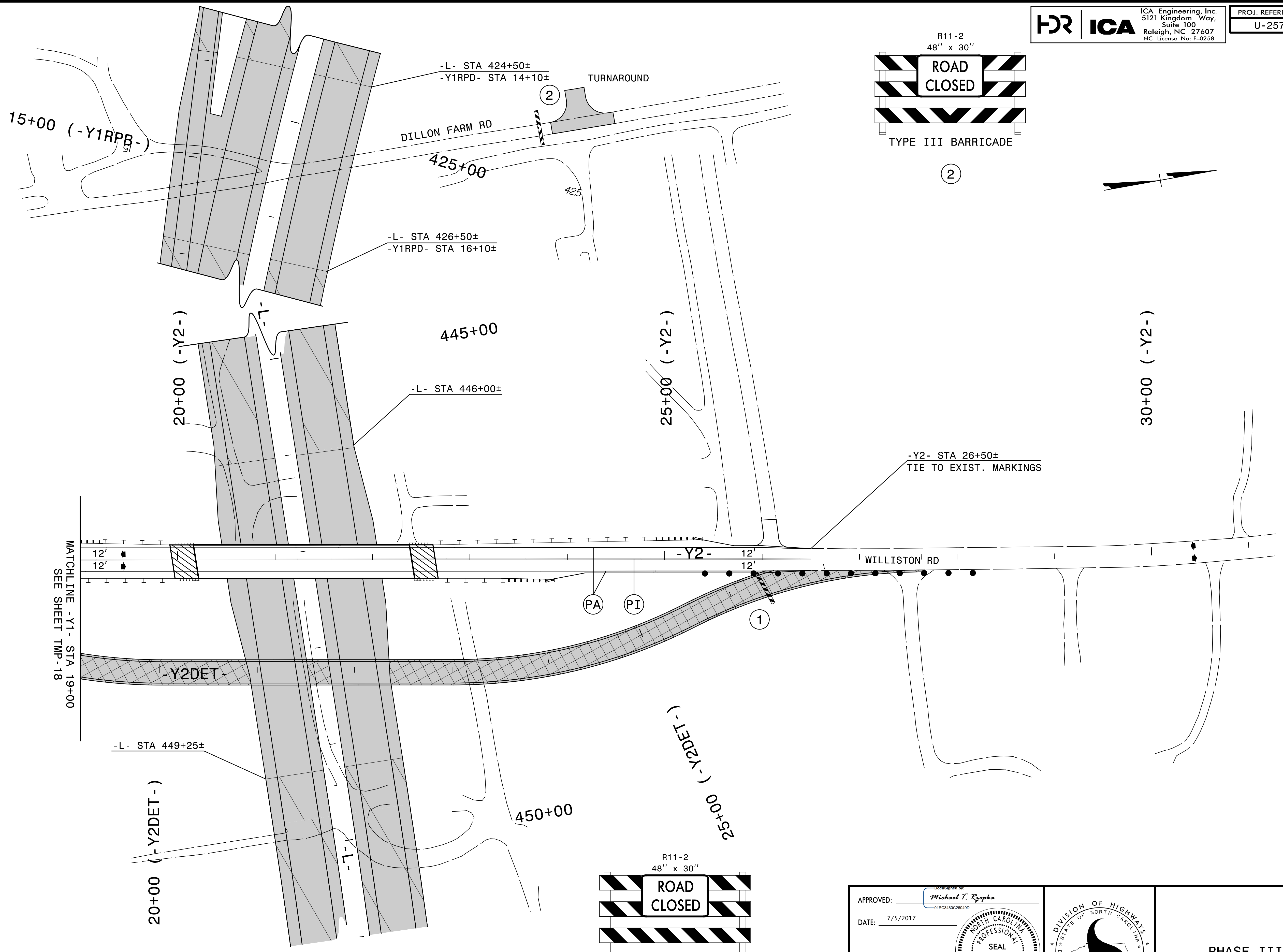
DATE: 7/5/2017

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PHASE III DETAIL

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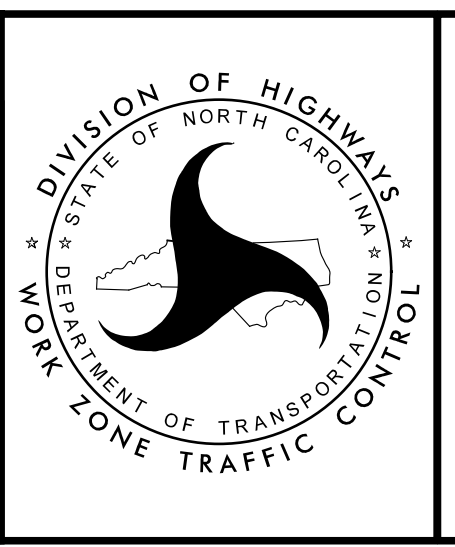
MATCHLINE -Y1- STA 19+00
SEE SHEET TMP-18

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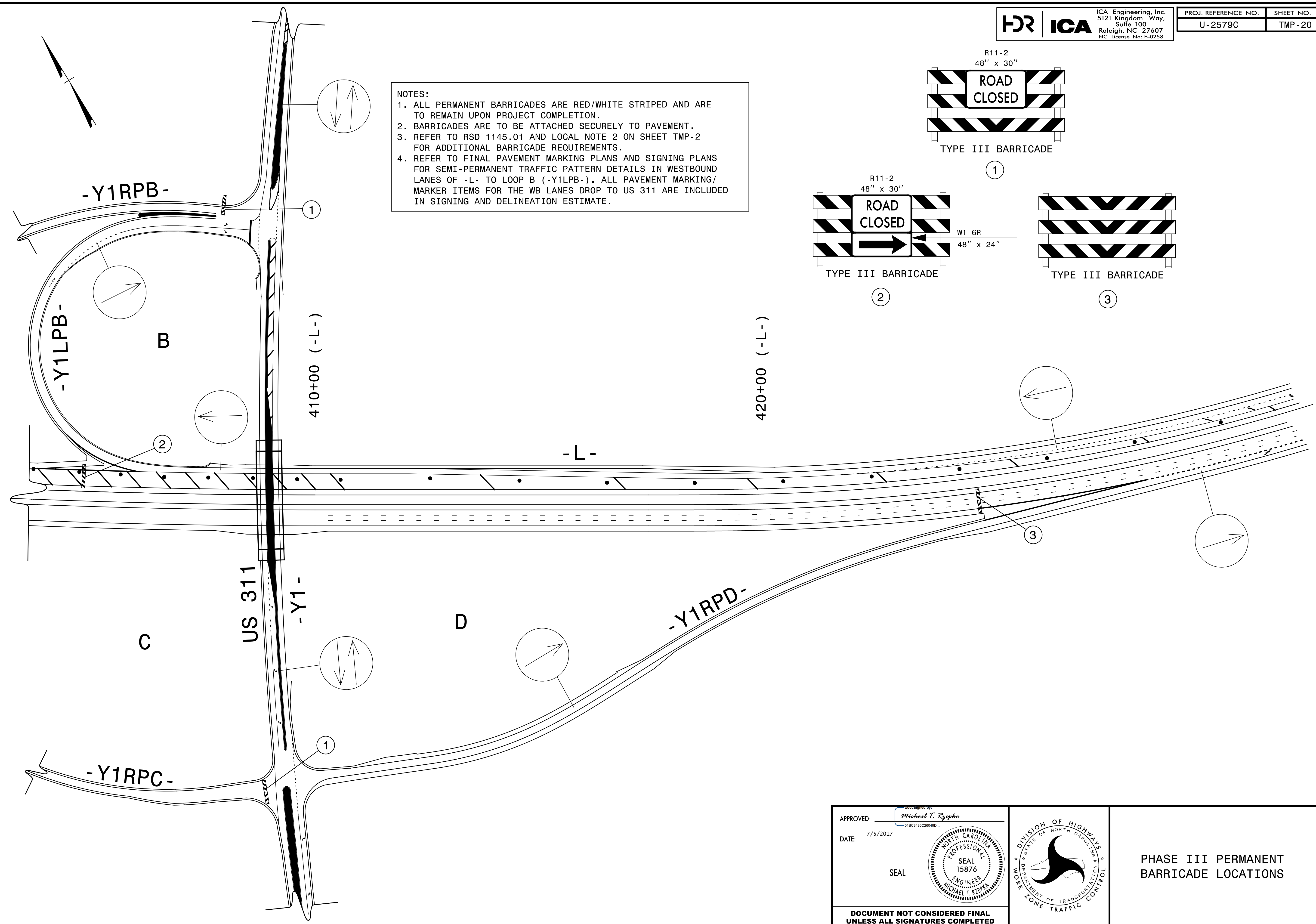
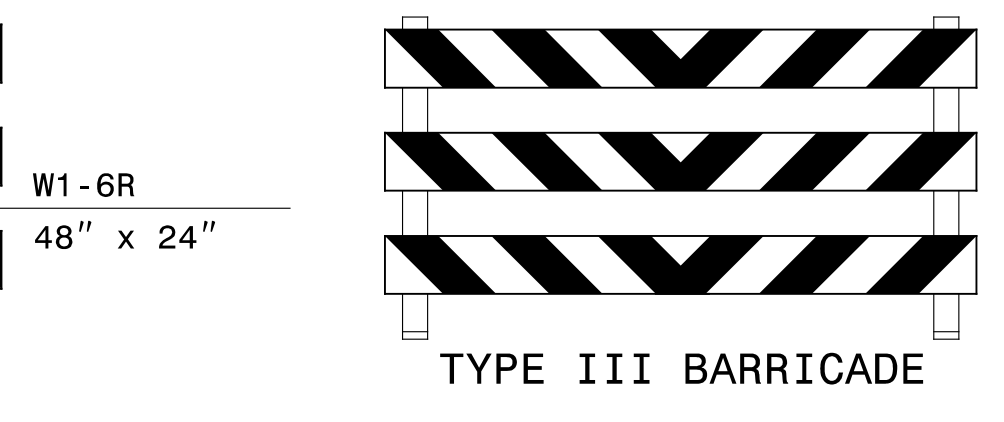
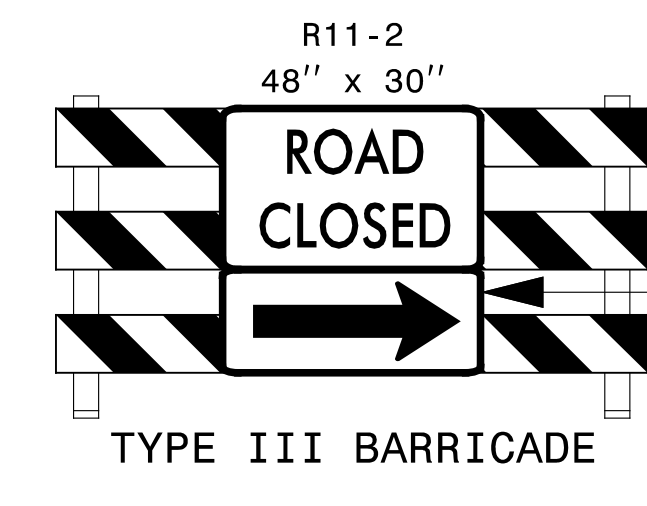
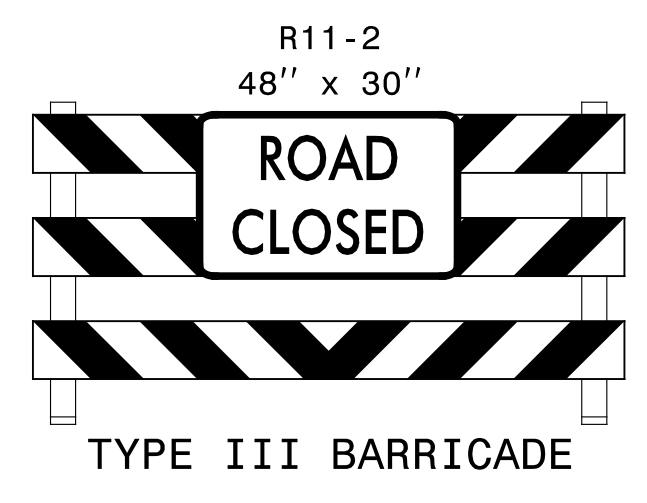


PHASE III DETAIL

Seal of the Division of Highways, State of North Carolina, Department of Transportation, Work Zone Traffic Control.

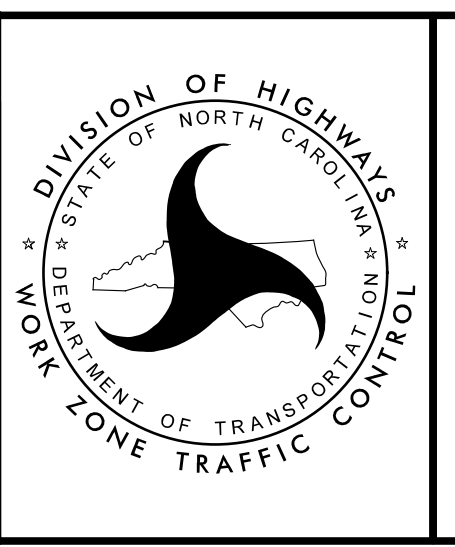
NOTES:

1. ALL PERMANENT BARRICADES ARE RED/WHITE STRIPED AND ARE TO REMAIN UPON PROJECT COMPLETION.
2. BARRICADES ARE TO BE ATTACHED SECURELY TO PAVEMENT.
3. REFER TO RSD 1145.01 AND LOCAL NOTE 2 ON SHEET TMP-2 FOR ADDITIONAL BARRICADE REQUIREMENTS.
4. REFER TO FINAL PAVEMENT MARKING PLANS AND SIGNING PLANS FOR SEMI-PERMANENT TRAFFIC PATTERN DETAILS IN WESTBOUND LANES OF -L- TO LOOP B (-Y1LPB-). ALL PAVEMENT MARKING/MARKER ITEMS FOR THE WB LANES DROP TO US 311 ARE INCLUDED IN SIGNING AND DELINEATION ESTIMATE.



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PHASE III PERMANENT
 BARRICADE LOCATIONS