

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4034	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
BUNCOMBE COUNTY**

B-4034

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 JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
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	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY & PERMANENT)
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, TEMPORARY PAVEMENT MARKING SCHEDULE AND INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASING
TCP-4	DETAIL 1
TCP-5	DETAILS 2 AND 3
TCP-6	OFFSITE DETOUR AND ROAD CLOSURE SIGNING FOR -Y1-
TCP-7	ADVANCED WORK ZONE WARNING SIGNS
SD-1	SPECIAL SIGN DESIGN

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAVEMENT MARKINGS	PAY ITEM QUANTITY BREAKDOWN	TOTAL
PA	WHITE EDGE LINE (2X)	PAINT (4")	10340 FT	10340 FT
PI	DOUBLE YELLOW CENTER LINE (2X)	PAINT (4")	3410 FT	6820 FT
			TOTAL:	17160 FT
P4	WHITE STOPBAR (X2)	PAINT (24")	45 FT	45 FT
			TOTAL:	45 FT
MARKERS				
MH	YELLOW & YELLOW	TEMPORARY RAISED PAVEMENT MARKERS	15 EA	15 EA
			TOTAL:	15 EA

NOTE:
FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS, AND 3X IMPLIES THREE APPLICATIONS.

APPROVED: _____ DATE: _____	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT	
	STUART BOURNE, PE	TRAFFIC CONTROL ENGINEER
	JOSEPH ISHAK, PE	TRAFFIC CONTROL PROJECT ENGINEER
	JENNIFER PORTANOVA, PE	TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	ALLA LYUDMIRSKAYA	TRAFFIC CONTROL DESIGN ENGINEER

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TIP PROJECT:

PHASING

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER

- STEP 1:**
 USING RSD 1101.02, SHEET 1 OF 9, PERFORM THE FOLLOWING:
- INSTALL ADVANCE WORK ZONE WARNING SIGNS AS SHOWN ON SHEET TCP-7
 - INSTALL AND COVER ONSITE AND OFFSITE DETOUR SIGNS AS SHOWN ON SHEETS TCP-5 AND TCP-6
 - BEGIN INSTALLATION OF TEMPORARY SIGNALS AT BEGINNING AND END OF TEMPORARY ONSITE DETOUR. SEE SIGNALS PLANS.

- STEP 2:**
- 1) USING RSD 1101.03, SHEET 1 OF 9, SHEETS TCP-6 AND SD-1, PLACE TYPE III BARRICADES TO CLOSE SR 1102 (DAVIS CHAPEL RD.) TO TRAFFIC. UNCOVER OFFSITE DETOUR SIGNS, INSTALLED IN STEP 1, AND PLACE TRAFFIC ON TEMPORARY OFFSITE DETOUR VIA SR 1103 (DAVIS CREEK RD.) AND NC 151 (PISGAH HWY)

- 2) - AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING: SEE ROADWAY, HYDRAULICS, AND STRUCTURES PLANS AND SHEET TCP-4.
 - TEMPORARY ONSITE DETOUR FROM -DET- STA.11+00+/- (-L- STA.15+20+/-) TO DET- STA.16+50+/- (-L- STA.20+50+/-) INCLUDING STRUCTURE FROM -DET- STA.13+60+/- TO -DET- STA.14+45+/-
 - PROPOSED AND TEMPORARY DRAINAGE
 - PROPOSED -Y1- FROM -Y1- STA.10+50+/- TO -Y1- STA.12+50+/-
 - PROPOSED -Y2- UP TO EXISTING NC 151 FROM -Y2- STA.10+16+/- TO -Y2- STA.11+73+/-

- USING RSD 1101.02, SHEET 1 OF 9, COMPLETE AND COVER INSTALLATION OF TEMPORARY SIGNALS AT BEGINNING AND END OF TEMPORARY ONSITE DETOUR. SEE SIGNALS PLANS.

WORK IN CONTINUOUS MANNER TO COMPLETE STEP 3, AND SHIFT TRAFFIC ONTO TEMPORARY ONSITE DETOUR

- STEP 3:**
- 1) USING RSD 1101.02, SHEET 1 OF 9, AS NEEDED, COMPLETE CONSTRUCTION OF THE FOLLOWING:
 - TEMPORARY DRAINAGE
 - TEMPORARY ONSITE DETOUR, INCLUDING STRUCTURE WORK, AND TIE IN WITH EXISTING NC 151 AT -DET- STA.11+00+/- AND -DET- STA.16+50+/-.
 - PROPOSED -Y2- FROM STA.10+16+/- TO STA.11+73+/- . CLOSE EXISTING DRIVEWAY AND PLACE TRAFFIC ON -Y2- .
 - 2) PLACE TEMPORARY PAVEMENT MARKING (PAINT) ON THE TEMPORARY ONSITE DETOUR FROM -DET- STA.10+00+/- TO -DET- STA.17+77+/-

- 3) UNCOVER ONSITE DETOUR SIGNS, INSTALLED IN STEP 1, AND SHIFT NC 151 TRAFFIC ONTO TEMPORARY ONSITE DETOUR IN ONE-LANE, TWO-WAY TEMPORARY PATTERN AS SHOWN ON SHEET TCP-5, DETAIL 2. UNCOVER AND ACTIVATE TEMPORARY SIGNALS AT BEGINNING AND END OF TEMPORARY ONSITE DETOUR.

- STEP 4:**
 AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:
 SEE ROADWAY, HYDRAULICS, AND STRUCTURES PLANS.
- COMPLETE PROPOSED DRAINAGE
 - REMOVE EXISTING STRUCTURE AND CONSTRUCT PROPOSED STRUCTURE AND APPROACHES UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA.13+50+/- TO -L- STA.22+00+/- .

WORK IN CONTINUOUS MANNER TO SHIFT TRAFFIC ONTO PROPOSED -L-

- STEP 5:**
 USING RSD 1101.02, SHEET 1 OF 9, AS NEEDED, PERFORM THE FOLLOWING:
- 1) CONSTRUCT TIE IN OF PROPOSED -L- AT -L- STA.15+20+/- AND -L- STA.20+50+/- .
 - 2) PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND TEMPORARY PAVEMENT MARKERS (TEMPORARY RAISED) ON -L- FROM STA.13+50+/- TO STA.22+00+/- .
 - 3) REMOVE ONSITE DETOUR SIGNS AND TEMPORARY SIGNALS AT BEGINNING AND END OF TEMPORARY ONSITE DETOUR.
 - 4) PLACE TRAFFIC IN TWO-LANE, TWO-WAY PATTERN ON PROPOSED -L- FROM STA.13+50+/- TO STA.22+00+/- AS SHOWN ON SHEET TCP-5, DETAIL 3.

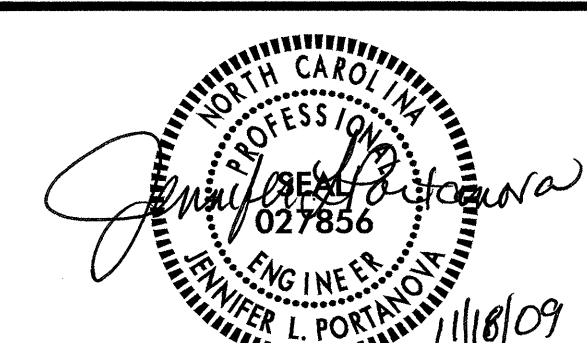

- STEP 6:**
 - USING RSD 1101.02, SHEET 1 OF 9, PERFORM THE FOLLOWING:
- 1) COMPLETE CONSTRUCTION OF PROPOSED -Y1- UP TO AND INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y1- STA.10+00+/- TO -Y1- STA.11+77+/- , AND TIE IN WITH -L- AT -L- STA.16+75+/- LT.

- 2) USING FINAL PAVEMENT MARKING PLANS, PLACE PAVEMENT MARKING AND MARKERS ON -Y1- FROM STA.10+00+/- TO STA.11+77+/- , OPEN Y1 TO THE PROPOSED TRAFFIC PATTERN, AND REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

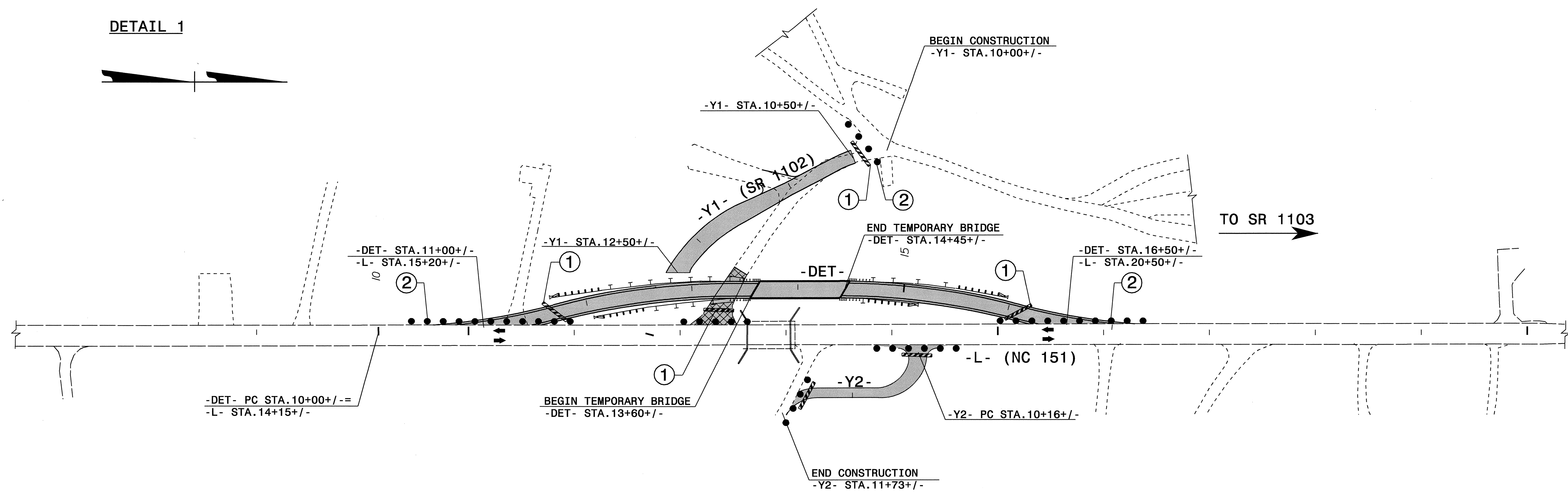
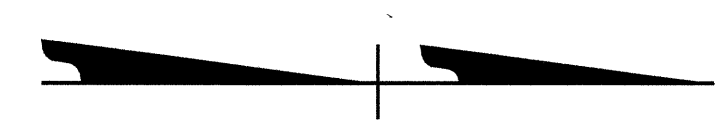
- USING RSD 1101.02, SHEET 1 OF 9, AND FINAL PAVEMENT MARKING PLANS, PLACE FINAL SURFACE COURSE AND FINAL PAVEMENT MARKING ON -L- FROM STA.13+50+/- TO STA.22+00+/- .

- STEP 7:**
 REMOVE TEMPORARY ONSITE DETOUR, TEMPORARY STRUCTURE AND ALL TRAFFIC CONTROL DEVICES.

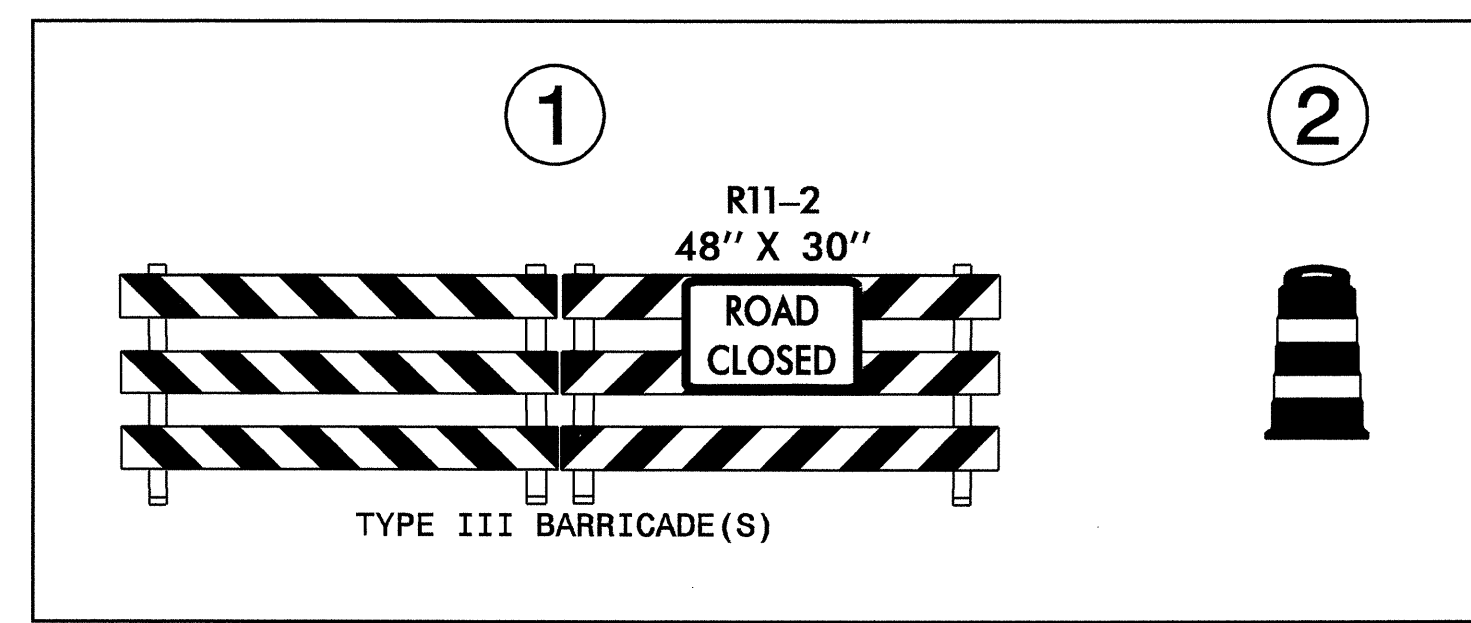
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		DESIGN BY: AYL	
		REVIEWED BY: JLP	
			

DETAIL 1

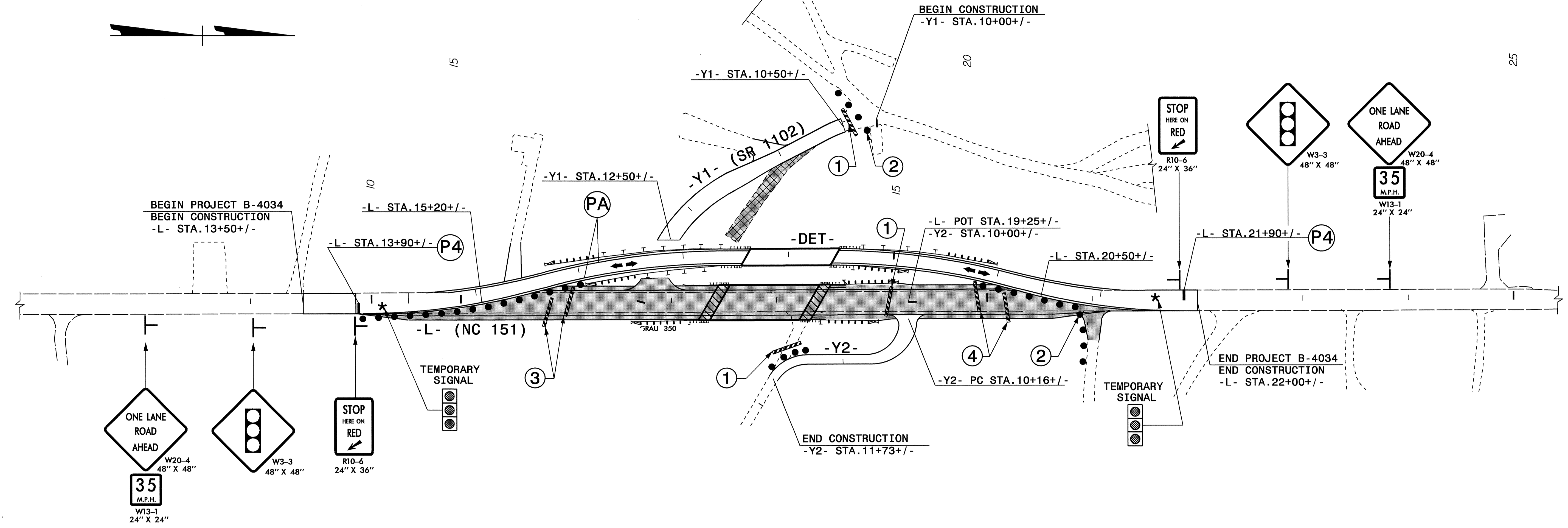


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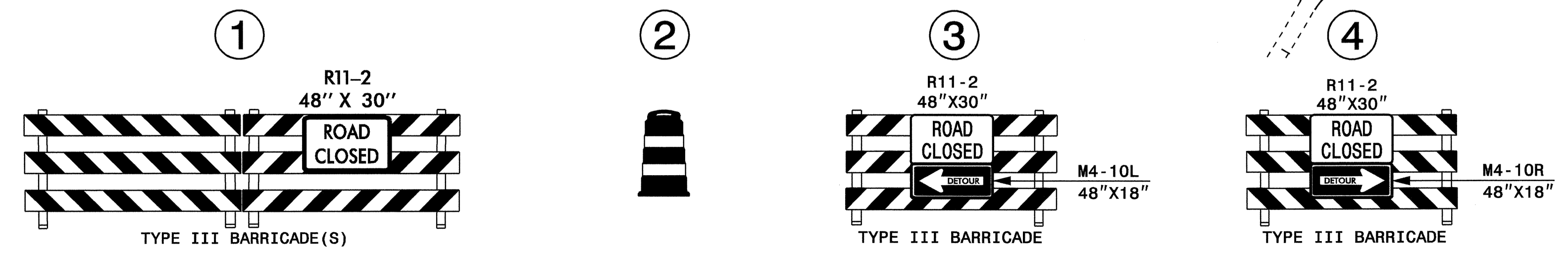
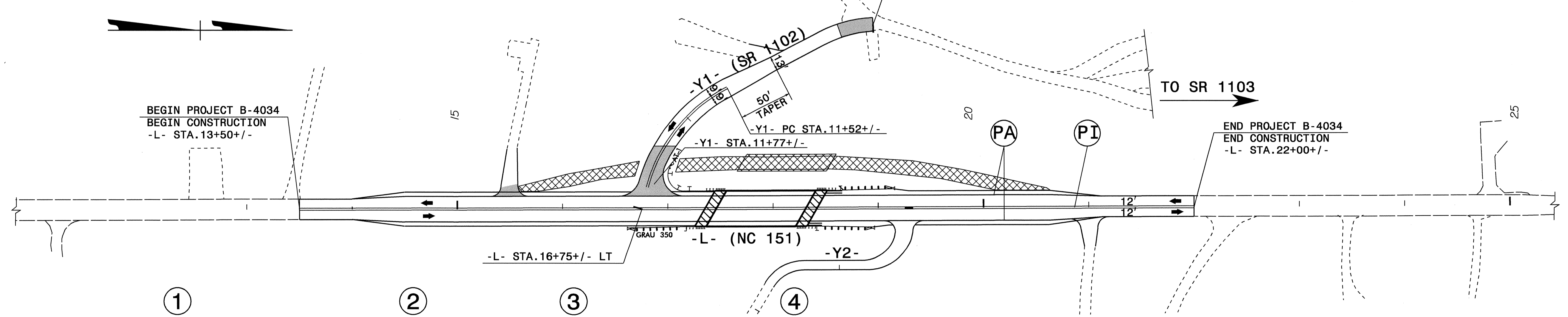


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DETAIL 2



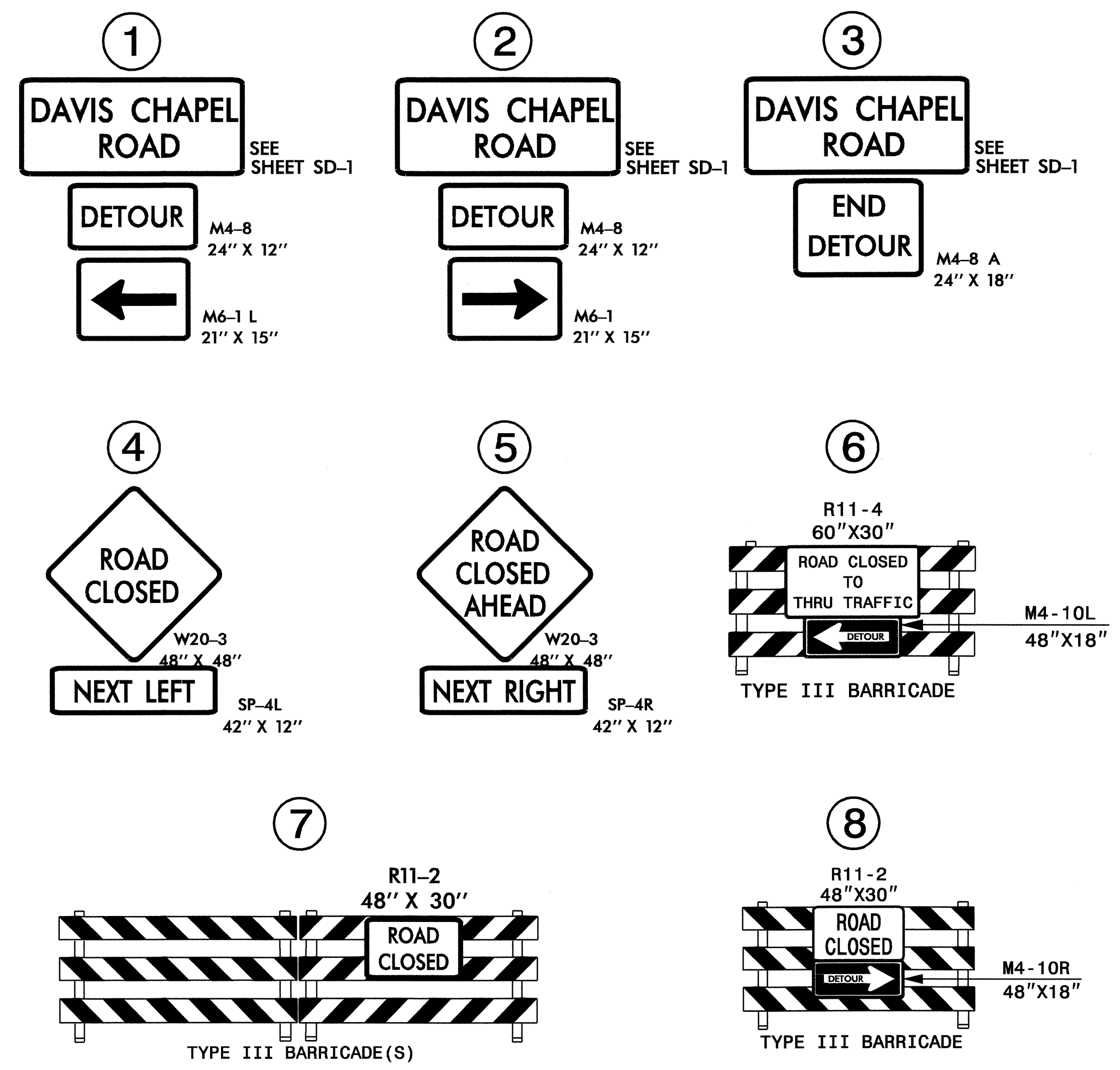
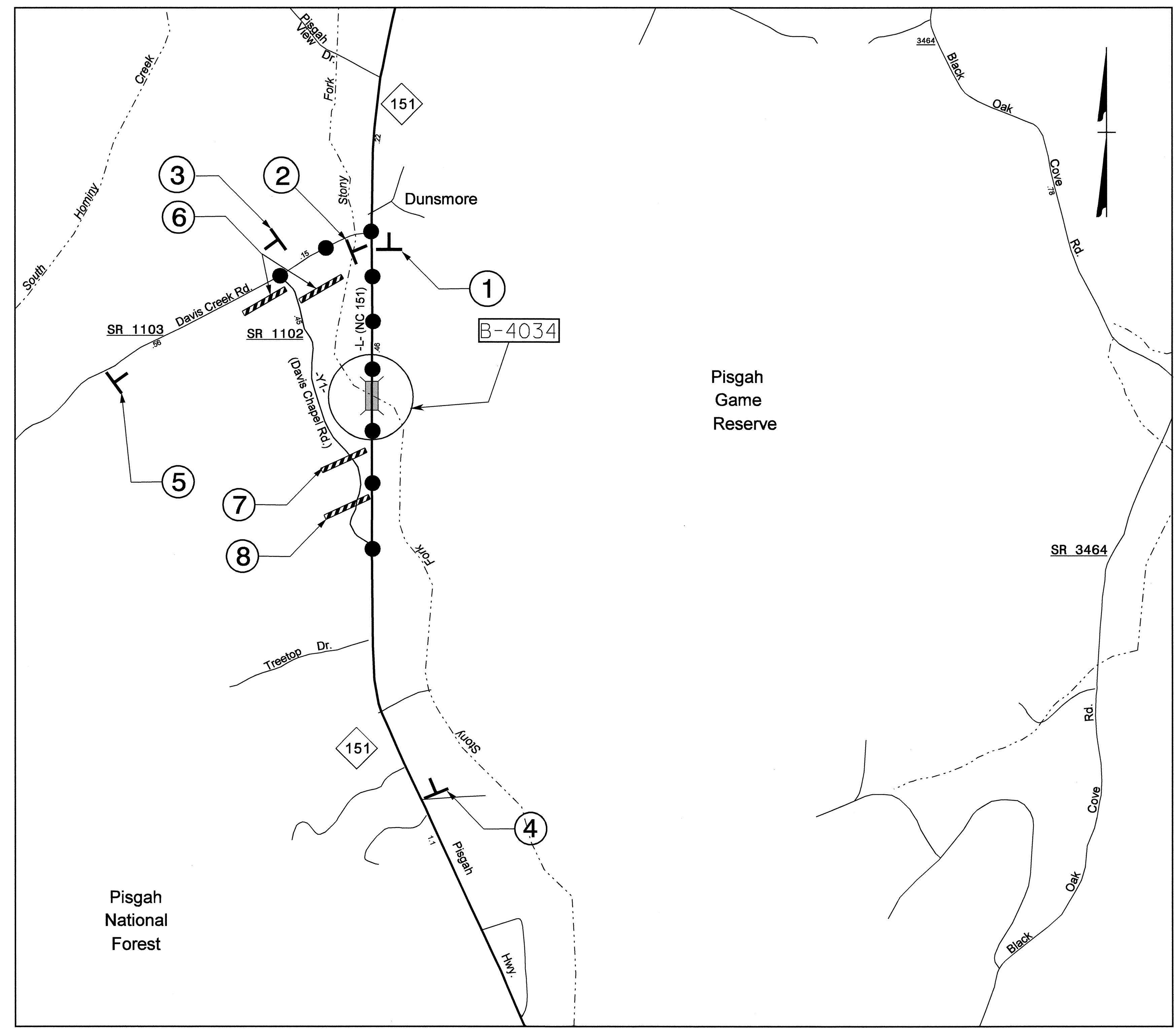
DETAIL 3



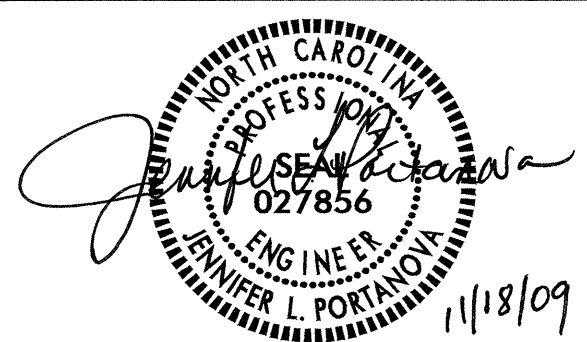
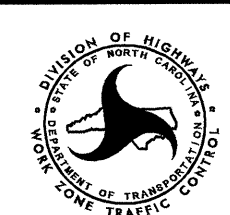
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VICINITY MAP: BUNCOMBE CO.



NOTES:
 1. SEE RSD 1101.03, SHEET 1 OF 9, FOR ALL OTHER REQUIRED SIGNS, NOTES AND PLACEMENT.
 2. SEE SHEET SD-1 FOR SPECIAL SIGN DESIGN.

APPROVED:	DATE:	OFFSITE DETOUR AND ROAD CLOSURE SIGNING FOR -Y1-	
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REVIEWED BY: JLP			

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