

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4255	TCP-1

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

B-4255

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- ROADWAY DESIGN 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
1101.11	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	FLAGGERS
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
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, INDEX OF SHEETS, AND PAVEMENT MARKING SCHEDULE
TCP-2	PROJECT NOTES
TCP-3	PHASING
TCP-4	PHASE I
TCP-5	PHASE II
TCP-6	TEMPORARY OFFSITE DETOUR AND SIGNING DETAIL
TCP-7	PHASE III
TCP-8	WORK ZONE WARNING SIGN DETAIL

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE III BARRICADE
 - DRUM
 - STATIONARY SIGN
 - PORTABLE SIGN
 - CRASH CUSHION
 - FLAGGER

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM/QUANTITY BREAKDOWN	TOTAL QUANTITY
PAVEMENT MARKING LINES			
PAINT 4"			
PA	WHITE EDGELINE	8,400 LF	16,800 LF
PI	YELLOW DOUBLE CENTER	8,400 LF	
EPOXY 4"			
EA	WHITE EDGELINE	1,920 LF	1,920 LF
EPOXY 4"			
EI	YELLOW DOUBLE CENTER	1,920 LF	1,920 LF
PAVEMENT MARKERS			
TEMPORARY RAISED			
MH	YELLOW/YELLOW	114 EA	114 EA
SNOWPLOWABLE			
ME	YELLOW/YELLOW	12 EA	12 EA

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
DATE: 4/4/06	
SEAL:	J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	M. McDIARMID, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	C. B. HOWARD TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	M. D. STOKES TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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TIP PROJECT:

PHASING

PROJ. REFERENCE NO. B-4255	SHEET NO. TCP-3
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PHASE I

NOTE: MAINTAIN TRAFFIC ACCESS TO THE DRIVEWAYS LOCATED WITHIN THE PROJECT LIMITS.

IF GUARDRAIL INSTALLATION CANNOT BE COMPLETED IN A CONTINUOUS MANNER, PROTECT THE EXPOSED END OF THE GUARDRAIL WITH A TMIA IF THE EXPOSED END IS WITHIN 30 FEET OF THE TRAVELWAY UNTIL THE GUARDRAIL INSTALLATION CAN BE COMPLETED.

- STEP 1: - INSTALL ADVANCED WORK ZONE WARNING SIGNS ON NC 801 IN ACCORDANCE WITH SHEET TCP-8.
- STEP 2: - AWAY FROM TRAFFIC, INSTALL THE TEMPORARY 24 INCH CORRUGATED STEEL PIPE AT -DET- STA. 16+55 +/-.
- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9, CONSTRUCT THE ONSITE DETOUR AND BRIDGE UP TO EDGE AND ELEVATION OF EXISTING ROADWAY INCLUDING THE DETOUR GUARDRAIL AS SHOWN ON TCP-4 FROM -DET- STA. 10+00 +/- TO -DET- STA. 19+33 +/- . PLACE TYPE III BARRICADES AND DRUMS TO CLOSE THE DETOUR TO TRAFFIC.
 - INSTALL AND COVER WORK ZONE SIGNING FOR THE ONSITE DETOUR TRAFFIC. SEE SHEET TCP-5.
- STEP 3: - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9, TIE-IN DETOUR WITH EXISTING ROADWAY AND PLACE PAINT PAVEMENT MARKINGS (EDGE LINE AND DOUBLE YELLOW CENTERLINE) AND TEMPORARY PAVEMENT MARKERS. SEE SHEET TCP-5 AND ROADWAY STANDARD DRAWING 1101.03, SHEET 3 OF 9, FOR PAVEMENT MARKING AND MARKER DETAILS.

PHASE II

- STEP 1: - UNCOVER SIGNING FOR DETOUR AND USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9, SHIFT TRAFFIC ONTO CONSTRUCTED DETOUR. PLACE TYPE III BARRICADES AND DRUMS TO CLOSE -L- TO TRAFFIC AS SHOWN ON SHEET TCP-5.
- STEP 2: - CONSTRUCT THE -L- BRIDGE AND THE PROPOSED -L- ROADWAY UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA. 16+90 +/- TO -L- STA. 23+50 +/- . SEE SHEET TCP-5.
- INSTALL ALL PROPOSED GUARDRAIL EXCEPT FOR THE RIGHT SIDE NORTHBOUND GUARDRAIL LOCATED FROM -L- STA. 15+15 +/- TO -L- STA. 17+42 +/- . PROTECT TRAFFIC FROM THE EXPOSED BRIDGE RAILING WITH A TEMPORARY CRASH CUSHION AS SHOWN ON SHEET TCP-5.
- STEP 3: - USING SHEET TCP-6 AND ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9, INSTALL AND COVER OFFSITE DETOUR SIGNING AND TEMPORARY ROAD CLOSURE SIGNING.



WORKING IN A CONTINUOUS MANNER, THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN PHASE II STEP 4, A THRU E IN 60 CONSECUTIVE HOURS BEGINNING ON A FRIDAY AT 6:00 P.M. AND FINISHING THE FOLLOWING MONDAY AT 6:00 A.M. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 4: A) - UNCOVER OFFSITE DETOUR SIGNING AND TEMPORARY ROAD CLOSURE SIGNING. USING ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9, SHIFT TRAFFIC TO OFFSITE DETOUR AND INSTALL BARRICADES TO CLOSE NC 801 AS SHOWN ON TCP-6.
- B) - CONSTRUCT THE TIE-INS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA. 15+00 +/- TO 16+90 +/- AND FROM -L- STA. 23+50 +/- TO 24+60 +/- .
- C) - INSTALL RIGHT SIDE NORTHBOUND GUARDRAIL LOCATED FROM -L- STA. 15+32 +/- TO -L- STA. 17+55 +/- . SEE SHEET TCP-7.
- REMOVE ONSITE DETOUR SIGNING THAT WAS INSTALLED AS SHOWN ON SHEET TCP-5.
 - PLACE TYPE III BARRICADES AND DRUMS TO CLOSE ONSITE DETOUR TO TRAFFIC AS SHOWN ON SHEET TCP-7.
- D) - PLACE PAINT PAVEMENT MARKINGS (EDGE LINE AND DOUBLE YELLOW CENTERLINE) AND TEMPORARY PAVEMENT MARKERS AND TIE-IN TEMPORARY PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES. SEE SHEET TCP-7 FOR FOR PAVEMENT MARKING DETAILS.
- E) - REMOVE BARRICADES USED TO CLOSE NC 801, REMOVE OFFSITE DETOUR SIGNING AND TEMPORARY ROAD CLOSURE SIGNING AND OPEN NC 801 TO TRAFFIC.

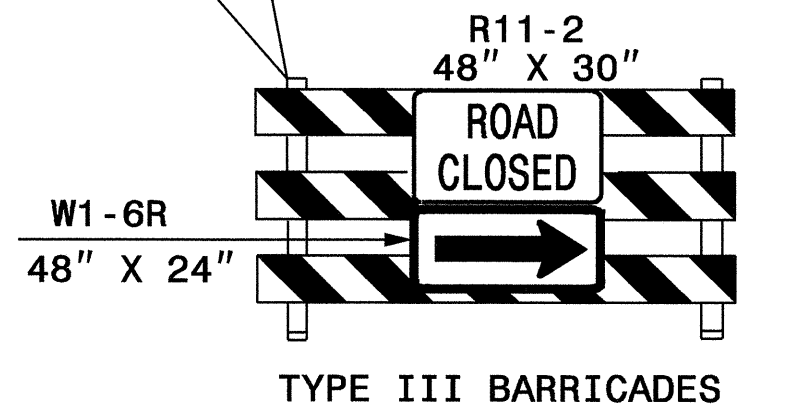
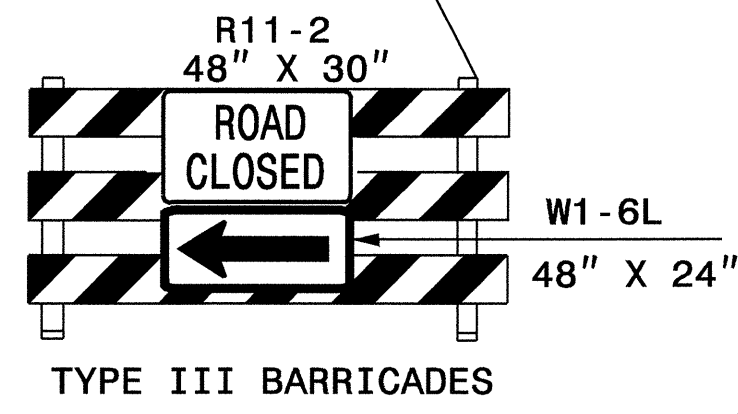
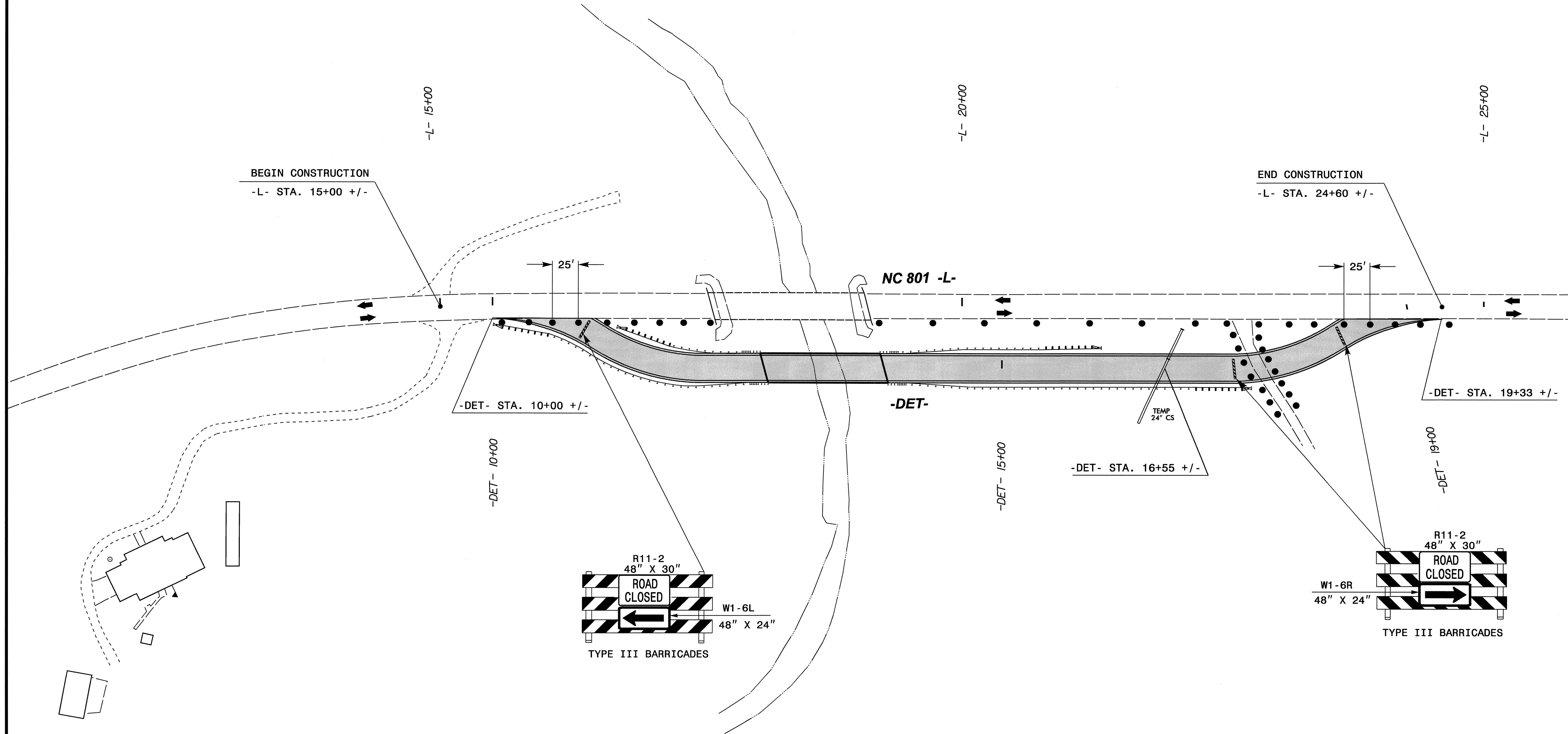
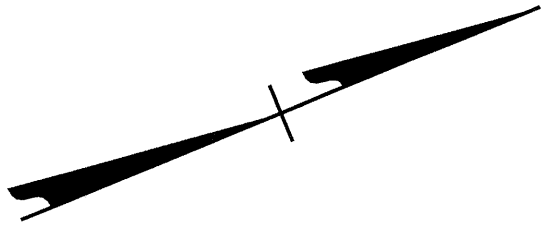
PHASE III

- STEP 1: - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9, REMOVE DETOUR AND FINISH REMAINING CONSTRUCTION OF -L- ROADWAY AND STRUCTURE.
- STEP 2: - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9, PLACE FINAL LAYER OF SURFACE COURSE, EPOXY PAVEMENT MARKINGS AND SNOWPLOWABLE MARKERS.
- REMOVE ALL REMAINING TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN -L- TO TRAFFIC.

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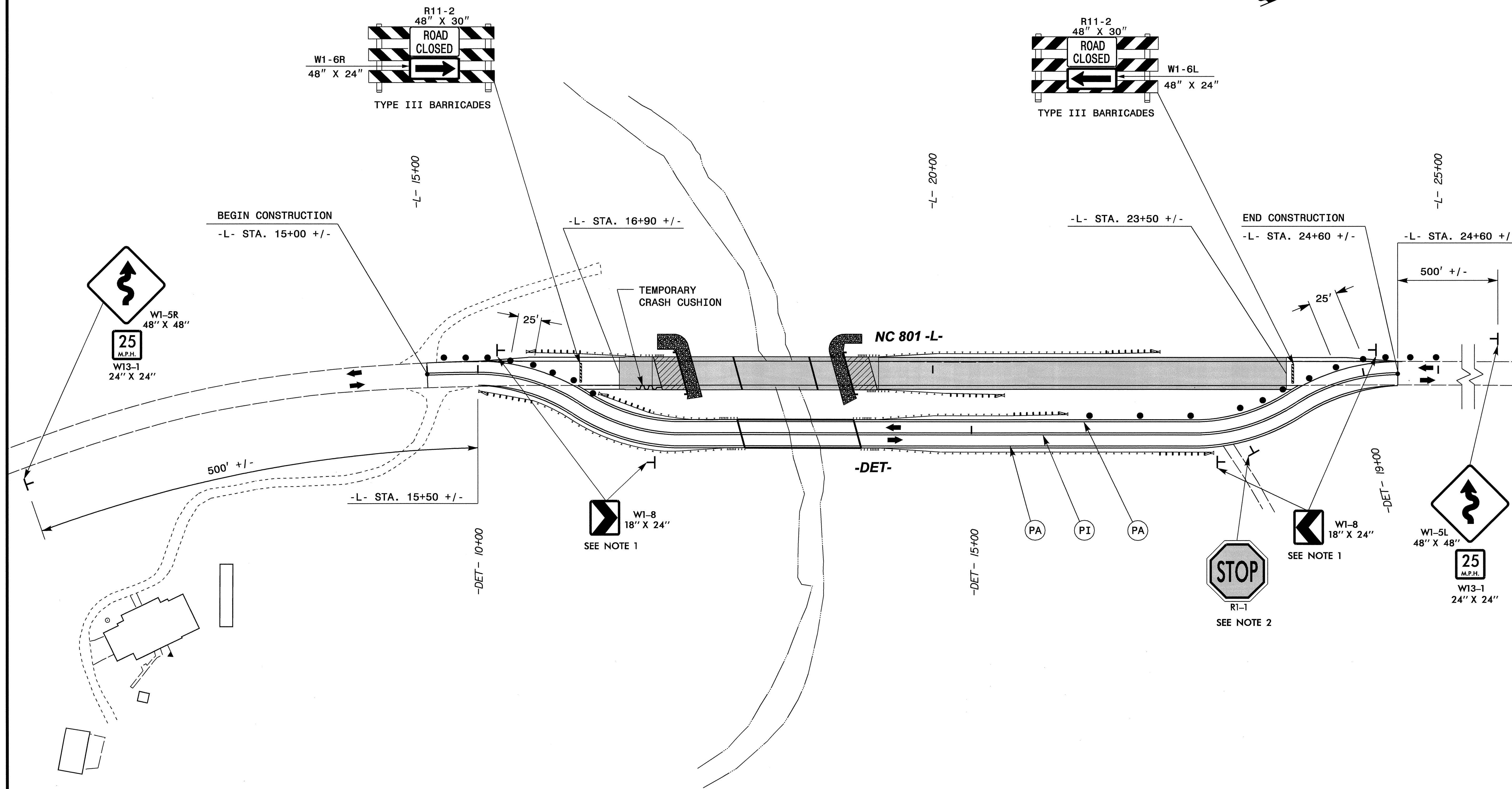
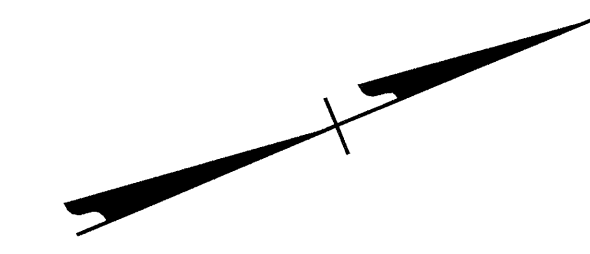
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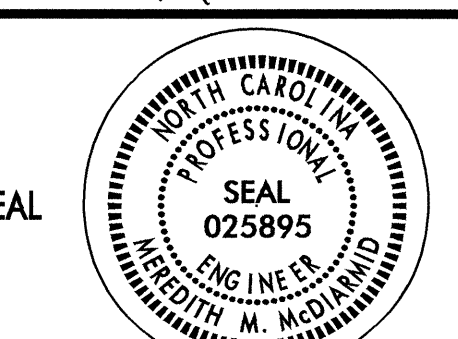

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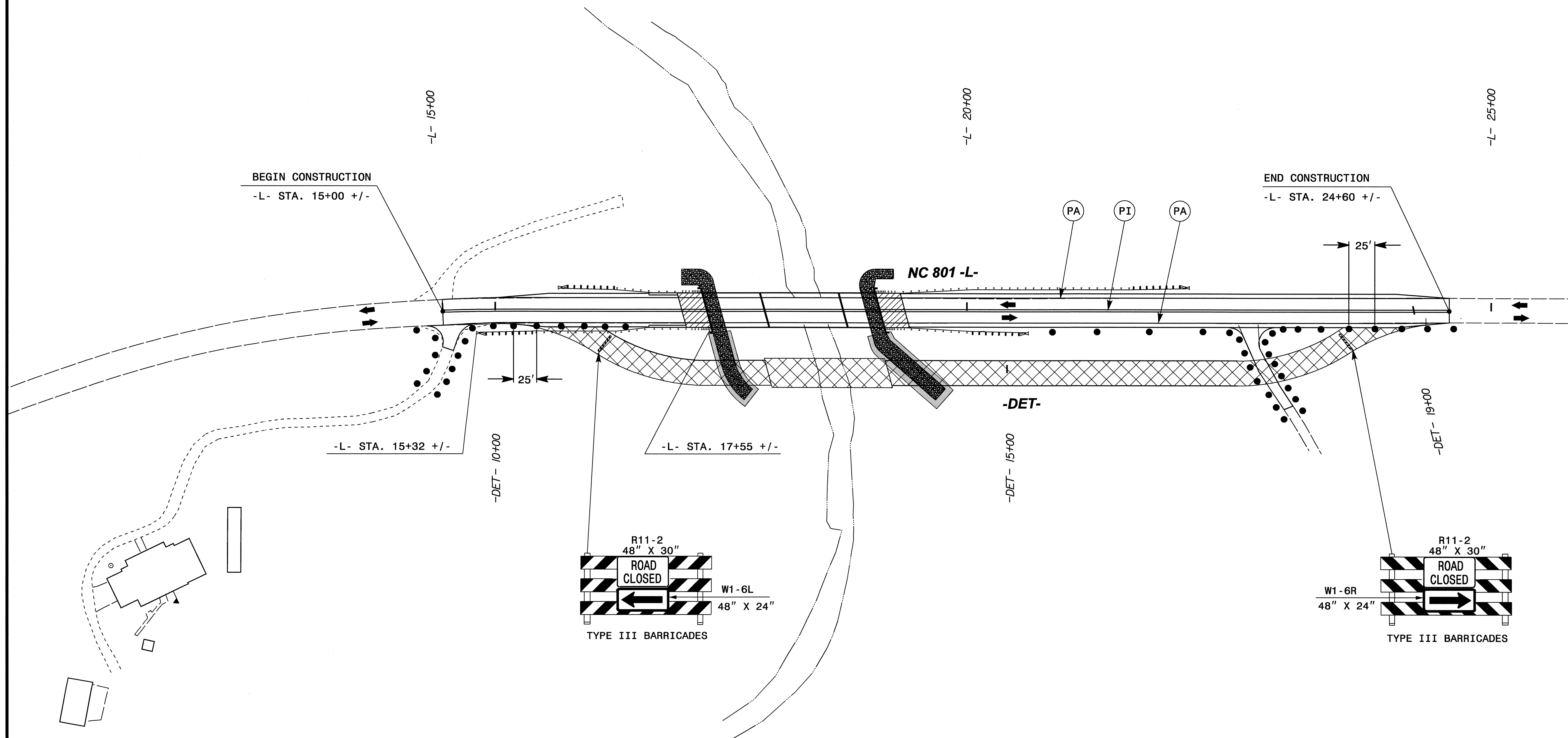
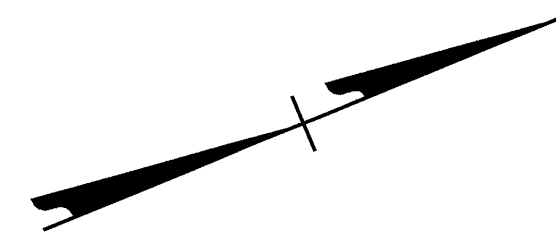


- 1-PLACE CHEVRON SIGNS (W1-8) ALONG CURVES UNTIL THE CHANGE IN ALIGNMENT ELIMINATES THE NEED FOR THE SIGNS.
- 2-INSTALL STATIONARY STOP SIGN SO IT DOES INTERFERE OR BLOCK THE VIEW OF THE CHEVRON SIGNS.


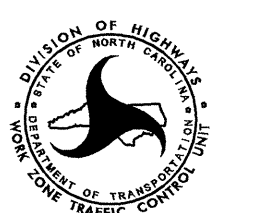
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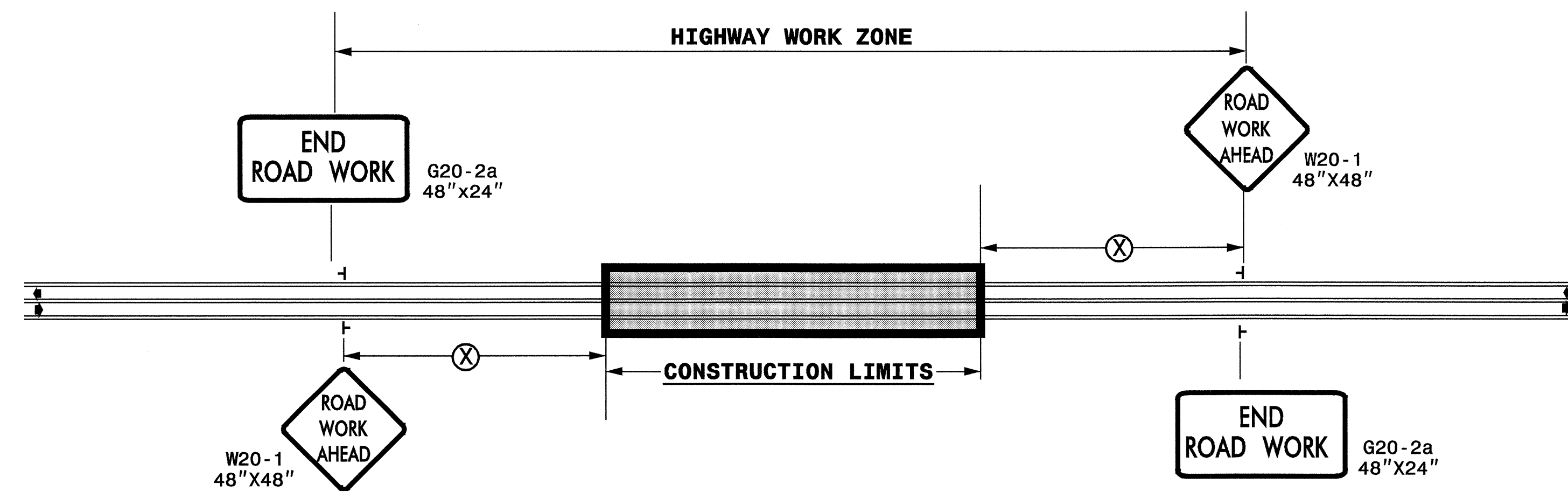
-DET- REMOVAL AND STRUCTURE COMPLETION



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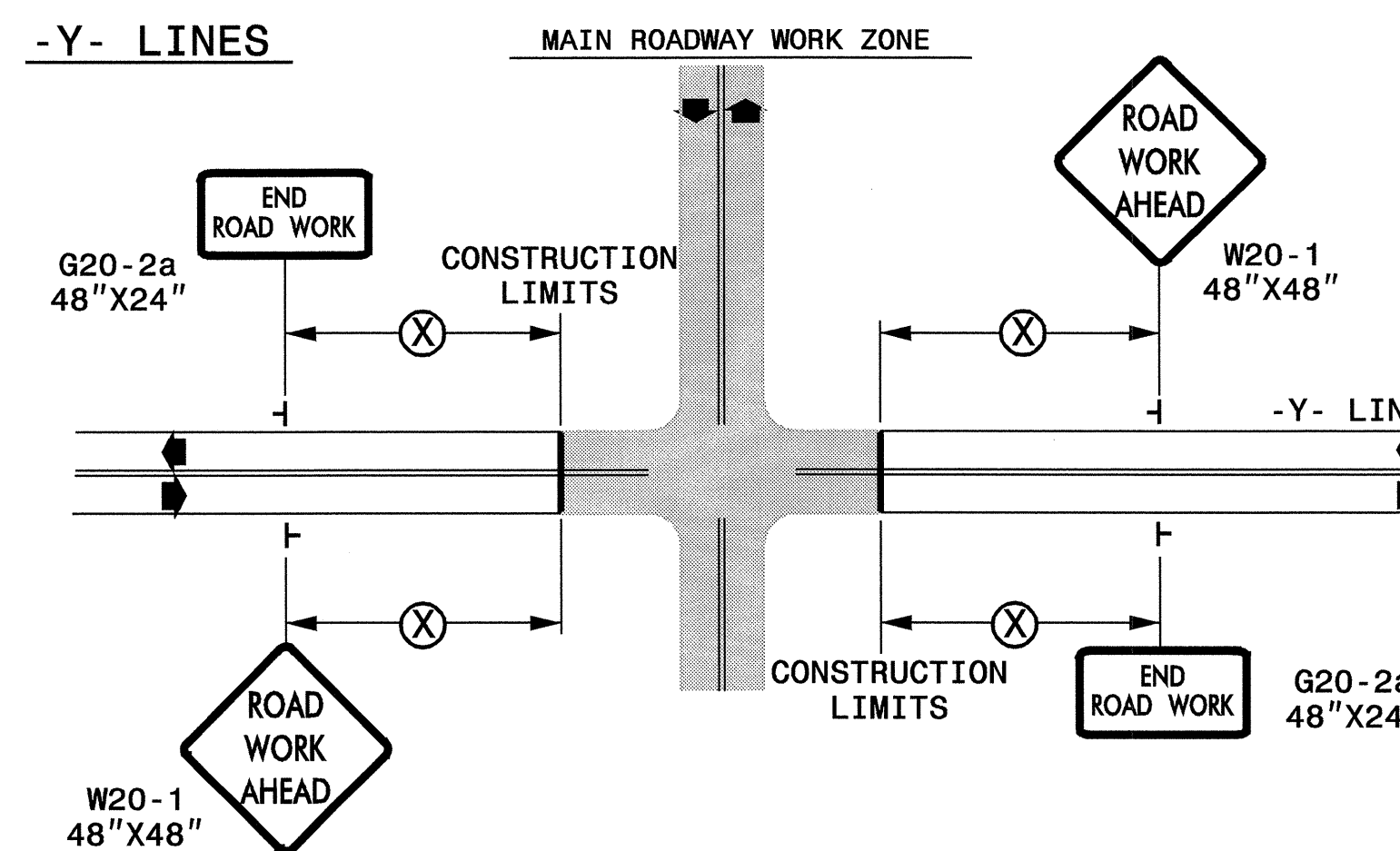
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

└ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>[Signature]</i> DATE: 4/1/01	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
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