

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4204	TCP-01

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

B-4204

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
1101.05	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 AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY AND PERMANENT)
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS AND TEMPORARY PAVEMENT MARKING/MARKER SCHEDULE
TCP-2	GENERAL NOTES AND LOCAL NOTE
TCP-3	PHASING
TCP-4	PHASE I DETAIL
TCP-5	PHASE II DETAIL
TCP-6	ADVANCE WORK ZONE WARNING SIGNS

TEMPORARY PAVEMENT MARKING/MARKER SCHEDULE

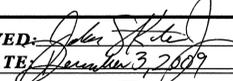
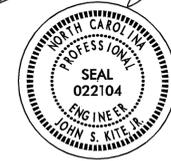
DESCRIPTION	QUANTITY BREAKDOWN	TOTAL QUANTITY
	PAINT (4")	
PA WHITE EDGELINE	14760 LF	
PD 2' WHITE MINI SKIP LINE	150 LF	
PE WHITE SOLID LANE LINE	400 LF	
PI YELLOW DOUBLE CENTER LINE	15360 LF	30670 LF
	PAINT (8")	
PV YELLOW SINGLE DIAGONAL LINE	170 LF	170 LF
	PAINT (24")	
P4 WHITE TRANSVERSE BAND	200 LF	200 LF
	PAINT MARKING SYMBOLS	
QA LEFT TURN SYMBOLS	8 EA	8 EA
	PAINT MARKING CHARACTERS	
QI ALPHANEUMERIC CHARACTERS	24 EA	24 EA
	TEMPORARY RAISED PAVEMENT MARKERS	
MH YELLOW & YELLOW	160 EA	160 EA

LEGEND

- GENERAL**
- ← DIRECTION OF TRAFFIC FLOW
 - ↖ NORTH ARROW
 - PROPOSED PVMT. - - - - - EXIST. PVMT.
 - WORK AREA
 - ▨ REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- I TYPE I BARRICADE
 - II TYPE II BARRICADE
 - ▨ TYPE III BARRICADE
 - ▲ CONE
 - DRUM
 - ↖● FLASHING ARROW PANEL (TYPE C)
 - TYPE 'B' WARNING LIGHT
 - ⊥ 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

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akpatel AT WZTC244748

APPROVED:  DATE: <u>December 3, 2009</u>	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER J. STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER DON PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER ASHVIN PATEL, P.E. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
B-4204	TCP-2
MONTGOMERY	

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

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC-109	MONDAY THRU FRIDAY 7:00AM TO 8:30AM

B) 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

C) 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.

D) 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.

E) 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.

F) 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.

G) DO NOT INSTALL MORE THAN 1 SIMULTANEOUS LANE CLOSURES, IN ANY ONE DIRECTION, ON NC-109.

PAVEMENT EDGE DROP OFF REQUIREMENTS

H) 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 WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

I) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

K) 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.

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

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

TRAFFIC CONTROL DEVICES

N) SPACE CHANNELIZING DEVICES IN WORK AREAS AS SHOWN IN THE TRAFFIC CONTROL DETAILS, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

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

P) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

Q) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.

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

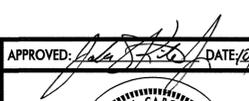
ROAD NAME	MARKING	MARKER
NC-109	PAINT	TEMPORARY RAISED

S) PLACE TWO INITIAL APPLICATIONS OF PAINT ON THE DETOUR. PLACE A THIRD APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER

T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

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TRAFFIC CONTROL PHASING

PHASE I

- STEP 1 -- INSTALL ADVANCED WORK ZONE WARNING SIGNS (SEE TCP-6)
- STEP 2 -- USING FLAGGERS, CONSTRUCT THE PROPOSED NC-109 DETOUR (-DET-) UP TO THE EDGE AND ELEVATION OF NC-109. (SEE ROADWAY PLANS; RSD 1101.02, SHEET 1 AND TCP-4)
- INSTALL & COVER ONSITE DETOUR SIGNING AS SHOWN ON RSD 1101.03, SHEET 3. (ADD ADVISORY SPEED PANELS W13-1, 45 MPH)

WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK OF STEP 3 THRU 5 IN A SINGLE WORK PERIOD

- STEP 3 -- PLACE TRAFFIC IN A ONE LANE, TWO WAY PATTERN IN THE EXISTING SOUTHBOUND LANE AND TIE-IN THE NORTHBOUND LANE OF THE DETOUR (-DET-). PLACE TEMPORARY EDGELINE, DOUBLE YELLOW CENTERLINE (2 APPLICATIONS) AND TEMP. RAISED MARKERS. (SEE RSD 1101.02, SHEET 1; RSD 1101.03, SHEET 3 AND TCP-5)
- STEP 4 -- PLACE TRAFFIC IN A ONE LANE, TWO WAY PATTERN IN THE DETOUR (-DET-) NORTHBOUND LANE AND TIE-IN THE DETOUR SOUTHBOUND LANE AND PLACE TEMP. EDGELINE (2 APPLICATIONS). (SEE RSD 1101.02, SHEET 1; RSD 1101.03, SHEET 3 AND TCP-5)
- STEP 5 -- UNCOVER SIGNS & OPEN THE DETOUR (-DET-) TO A TWO LANE TWO WAY PATTERN AND CLOSE THE EXISTING ALIGNMENT. (SEE RSD 1101.03, SHEET 3 AND TCP-5)

PHASE II

- STEP 1 -- CONSTRUCT PROPOSED NC-109 (BRIDGE AND APPROACHES) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, OMITTING THE TIE-IN AREAS (SEE ROADWAY PLANS; RSD 1101.02, SHEET 1)

WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK OF STEP 2 THRU 4 IN A SINGLE WORK PERIOD

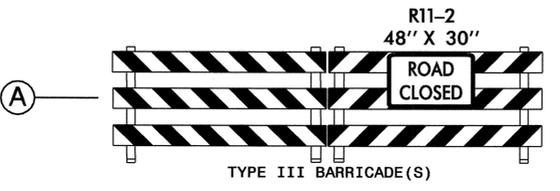
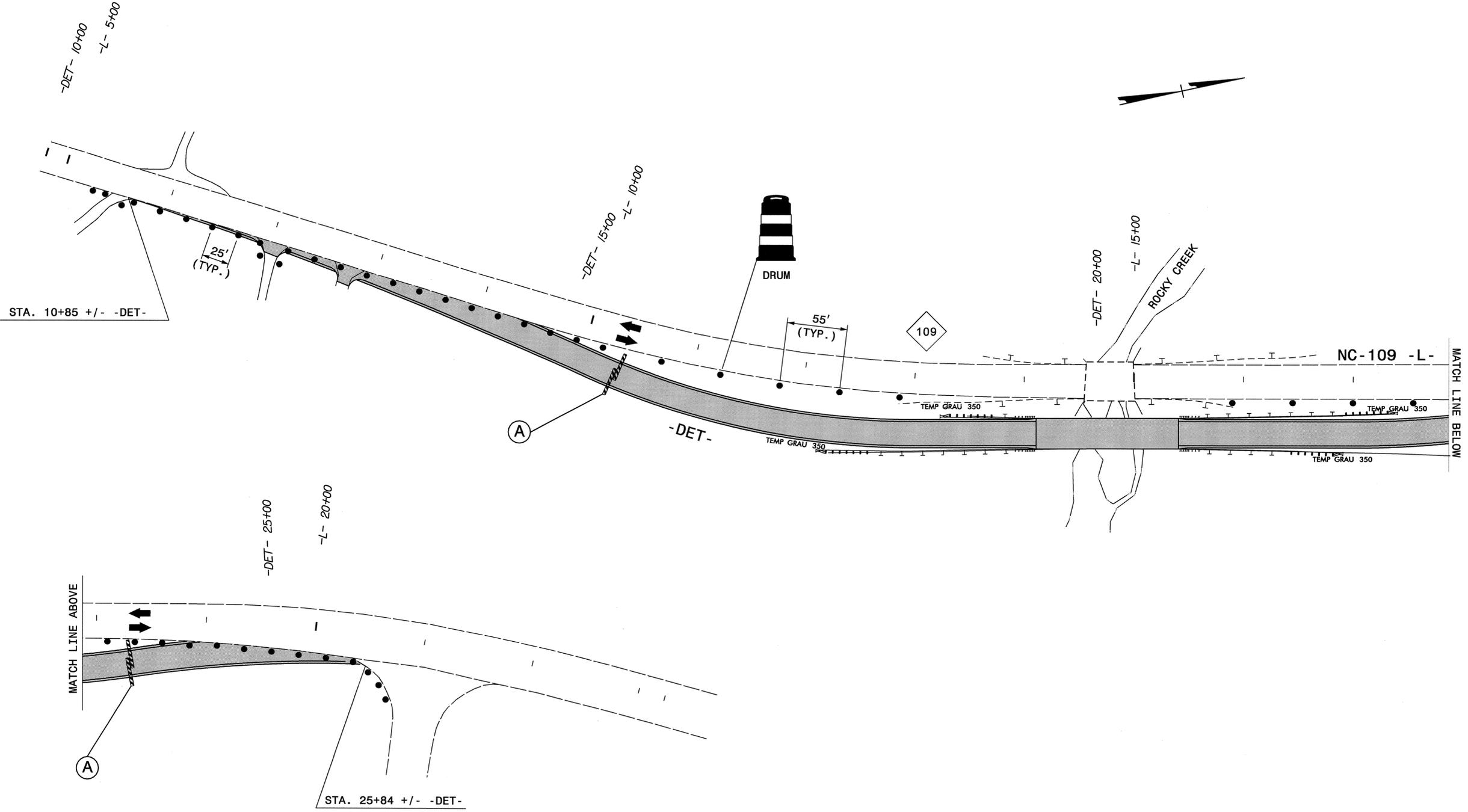
- STEP 2 -- PLACE TRAFFIC IN A ONE LANE, TWO WAY PATTERN IN THE DETOUR (-DET-) NORTHBOUND LANE AND CONSTRUCT THE TIE-IN WITH THE PROPOSED NC 109 SOUTHBOUND LANE. PLACE TEMPORARY EDGE LINE AND DOUBLE YELLOW CENTERLINE (SINGLE APPLICATION) ON THE PROPOSED SOUTHBOUND LANE OF NC 109 (SEE RSD 1101.02, SHEET 1)
- STEP 3 -- PLACE TRAFFIC IN A ONE LANE, TWO WAY PATTERN IN THE PROPOSED SOUTHBOUND LANE OF NC 109 AND CONSTRUCT THE TIE-IN WITH THE PROPOSED NC 109 NORTHBOUND LANE. PLACE TEMPORARY EDGELINE (SINGLE APPLICATION) ON THE PROPOSED NORTHBOUND LANE OF NC 109 (SEE RSD 1101.02, SHEET 1)
- STEP 4 -- OPEN NC-109 TO A TWO LANE, TWO WAY PATTERN AND CLOSE THE DETOUR (-DET-) TO TRAFFIC (SEE RSD 1101.03, SHEET 3)

PHASE III

- STEP 1 -- USING FLAGGERS, REMOVE DETOUR (-DET-) STRUCTURES AND APPROACHES (SEE RSD 1101.02, SHEET 1)
- STEP 2 -- USING FLAGGERS, PLACE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND PERMANENT RAISED MARKERS ON NC-109 (SEE RSD 1101.02, SHEET 1; PAVEMENT MARKING PLANS)
- STEP 3 -- REMOVE ALL TRAFFIC CONTROL DEVICES

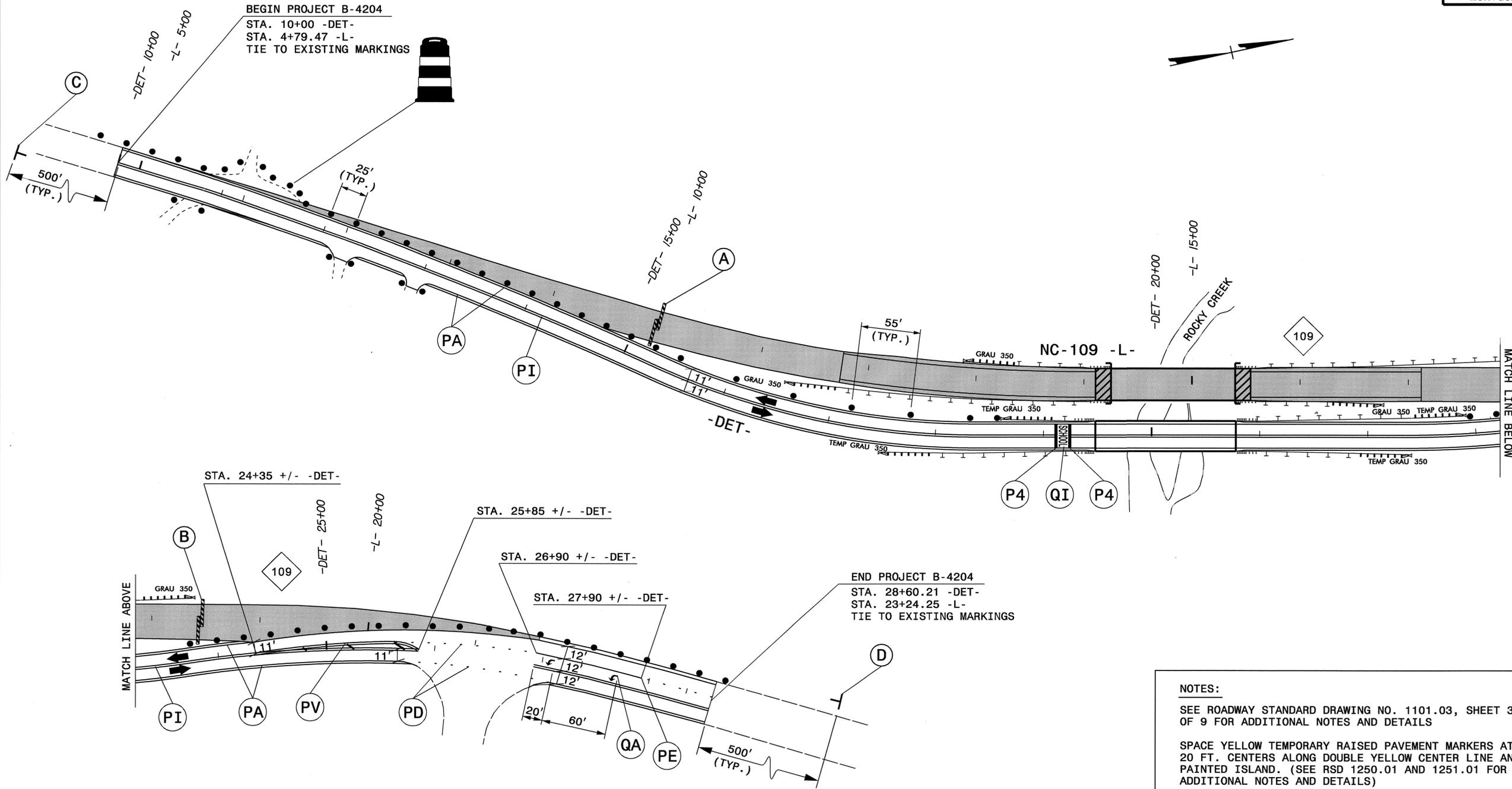
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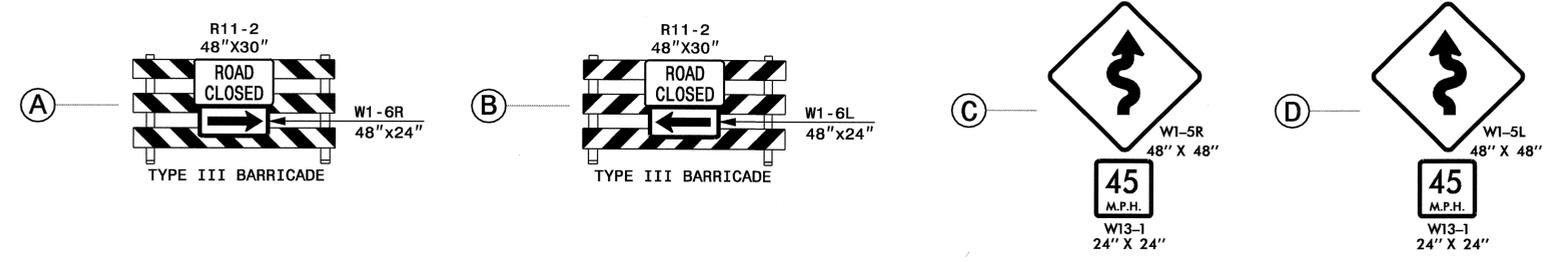
SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9 FOR ADDITIONAL NOTES AND DETAILS

SPACE YELLOW TEMPORARY RAISED PAVEMENT MARKERS AT 20 FT. CENTERS ALONG DOUBLE YELLOW CENTER LINE AND PAINTED ISLAND. (SEE RSD 1250.01 AND 1251.01 FOR ADDITIONAL NOTES AND DETAILS)

SPACE CHEVRONS WITHIN PAINTED ISLAND AT 25 FOOT CENTERS. (SEE RSD 1205.09 FOR ADDITIONAL NOTES AND DETAILS)

ALL PAVEMENT MARKINGS AND SYMBOLS ARE PAINT.

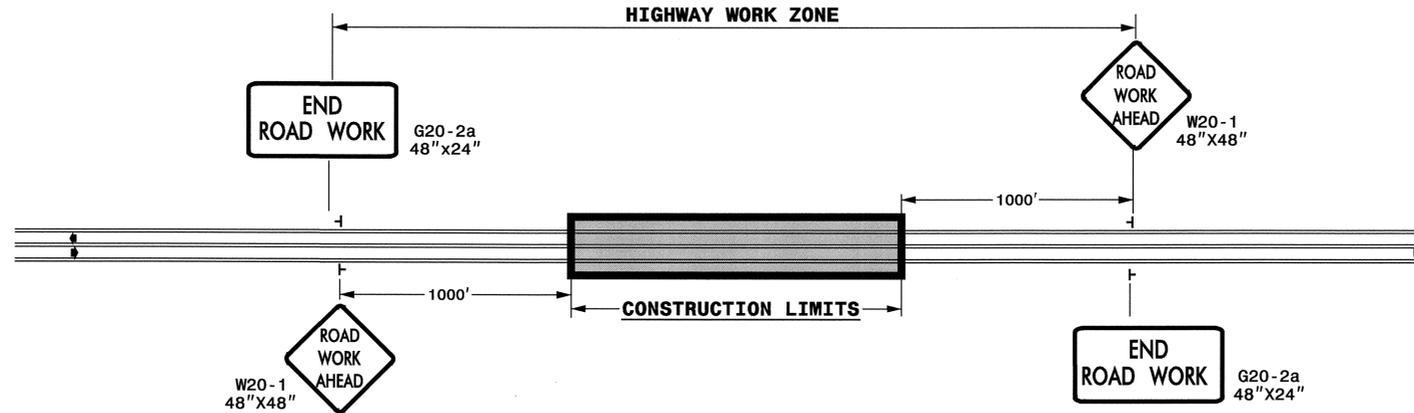
SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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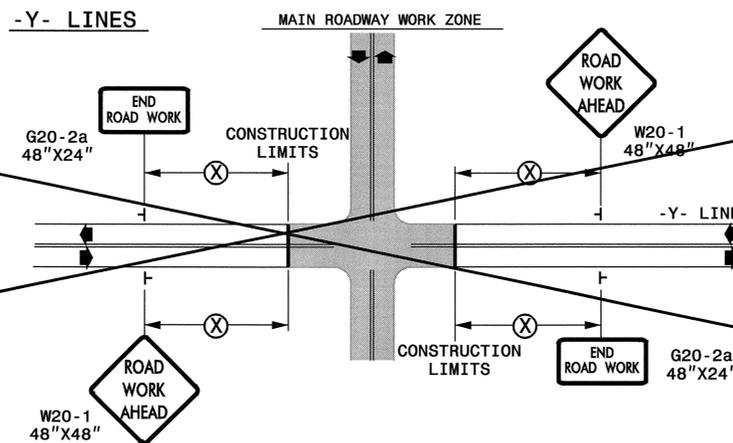
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TWO-WAY UNDIVIDED ** (L-LINES)



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: <i>01/09</i>	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
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