

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
W-4704	TCP-1

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

W-4704

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
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - TEMPORARY AND PERMANENT
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, FINAL PAVEMENT MARKING SCHEDULE AND INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASING & TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-4	DETOUR ROUTE AND BARRICADES PLACEMENT
TCP-5	DETAIL 1
TCP-6	DETAIL 2
TCP-7	ADVANCED WORK ZONE WARNING SIGNS
SD-1	DETOUR SIGN DESIGN
PM-1	FINAL PAVEMENT MARKING PLAN

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

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM PAVEMENT MARKINGS	QUANTITY BREAKDOWN	TOTAL
VA	WHITE EDGELINE	POLYUREA (4")	6000 LF	TOTAL: 12000 LF
VI	YELLOW DOUBLE CENTER	POLYUREA (4")	6000 LF	
V6	WHITE EDGELINE	POLYUREA (6")	4100 LF	TOTAL: 9230 LF
V7	YELLOW EDGELINE	POLYUREA (6")	4100 LF	
VJ	10 FT WHITE SKIP	POLYUREA (6")	1030 LF	
MARKERS				
MA	YELLOW & YELLOW	PERMANENT RAISED PAVEMENT MARKERS	40 EA	TOTAL: 40 EA
MF	CRYSTAL & RED	SNOWPLOWABLE RAISED PAVEMENT MARKERS	60 EA	TOTAL: 60 EA

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

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TIP PROJECT:

PROJECT 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 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

- | | |
|--------------------|---|
| ROAD NAME
US 74 | HOLIDAY |
| 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 8:00 P.M. DECEMBER 31st TO 8:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 A.M. THE FOLLOWING TUESDAY. |
| 3. | FOR EASTER, BETWEEN THE HOURS OF 8:00 P.M. THURSDAY AND 8:00 A.M. MONDAY. |
| 4. | FOR MEMORIAL DAY, BETWEEN THE HOURS OF 8:00 P.M. FRIDAY TO 8:00 A.M. TUESDAY. |
| 5. | FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 8:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 8:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY. |
| 6. | FOR LABOR DAY, BETWEEN THE HOURS OF 8:00 P.M. FRIDAY AND 8:00 A.M. TUESDAY. |
| 7. | FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 8:00 P.M. TUESDAY TO 8:00 A.M. MONDAY. |
| 8. | FOR CHRISTMAS, BETWEEN THE HOURS OF 8:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS. |
| 9. | FOR THE SPRING AND THE FALL MYRTLE BEACH BIKE WEEKS, BETWEEN THE HOURS OF 8:00 P.M. THE DAY BEFORE THE START OF THE MYRTLE BEACH BIKE WEEK AND 8:00 A.M. THE DAY AFTER THE END OF THE MYRTLE BEACH BIKE WEEK. |

B) DO NOT USE MEDIAN CROSSOVERS AS FOLLOWS:

ROAD NAME US 74	DAY AND TIME RESTRICTIONS MONDAY THROUGH SUNDAY FROM 6:00 A.M. TO 11:00 P.M.
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C) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME US 74	DAY AND TIME RESTRICTIONS FROM MEMORIAL DAY THROUGH LABOR DAY EVERY WEEK BETWEEN THE HOURS OF 8:00 P.M. FRIDAY AND 8:00 A.M. THE FOLLOWING MONDAY
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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 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.
- 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 0.5 MILE OF LANE CLOSURE ON US 74 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON US 74.

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 PERMANENT SIGNING.
- Q) PROVIDE DETOUR SIGNING WITHIN AND OF THE PROJECT LIMITS.
- R) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- S) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- T) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 1000 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

U) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL 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 TRAFFIC CONTROL 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 TRAFFIC CONTROL 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.

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

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

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

- W) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 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.
- X) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Y) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

Z) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME -L- (OLD KINGSDALE RD.) -Y1- (US 74)	MARKING POLYUREA POLYUREA	MARKER PERMANENT RAISED SNOWPLOWABLE
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AA) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME -L- (OLD KINGSDALE RD.) -Y1- (US 74)	MARKING PAINT PAINT	MARKER TEMPORARY RAISED TEMPORARY RAISED
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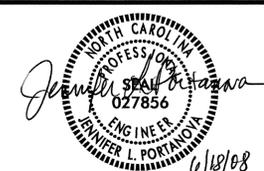
BB) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

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

MISCELLANEOUS

EE) POLICE MAY BE USED TO MAINTAIN TRAFFIC DURING CROSSOVERS ON US 74, AS DIRECTED BY THE ENGINEER.

APPROVED: _____ DATE: _____	PROJECT NOTES															
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PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-4704	TCP-3

STEP 1:
USING RSD 1101.02, SHEET 3 OF 9, AND SHEET TCP-7, INSTALL ADVANCED WORK ZONE WARNING SIGNS ON US 74.

STEP 2:
USING RSD 1101.03, SHEET 1 OF 9, PERFORM THE FOLLOWING:
- INSTALL DETOUR SIGNS, PLACE TYPE III BARRICADES TO CLOSE OLD KINGSDALE RD. TO TRAFFIC. DETOUR OLD KINGSDALE RD. TRAFFIC OFFSITE AS SHOWN ON SHEET TCP-4.

- CLOSE LEFT & RIGHT TURN LANES FROM WB AND EB US 74 ONTO EXISTING OLD KINGSDALE RD. SEE NOTE 'FF' ON SHEET TCP-2.

STEP 3:
- USING RSD 1101.02, SHEET 3 OF 9, REMOVE EXISTING PAVEMENT MARKINGS (WHITE SOLID LANE LINES AND MINI-SKIP LINES) ON LEFT AND RIGHT TURN LANES OF US 74 AND PLACE THE FOLLOWING:
SEE SHEET TCP-5.

- * WHITE EDGE LINES ON SB US 74 FROM -Y1- STA.14+00+/- TO -Y1- STA.24+50+/- AND NB US 74 FROM -Y1- STA.5+80+/- TO -Y1- STA.16+00+/-
- * YELLOW EDGE LINES ON SB US 74 FROM -Y1- STA.14+00+/- TO -Y1- STA.24+50+/- AND NB US 74 FROM -Y1- STA.6+00+/- TO -Y1- STA.15+90+/-.

- AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEET 3 OF 9, MAY BEGIN CONSTRUCTION OF TEMPORARY DRAINAGE AT TEMPORARY CROSSOVER LOCATIONS ON US 74. SEE ROADWAY AND HYDRO PLANS.

STEP 4:
- USING RSD 1101.03, SHEET 3 OF 9, INSTALL TEMPORARY PORTABLE CONCRETE BARRIER (PCB) AND CRASH CUSHIONS ON US 74 AT THE FOLLOWING LOCATIONS ALONG:
SEE ROADWAY PLANS AND SHEET TCP-5.

- WB OUTSIDE LANE FROM -Y1- STA.13+60+/- TO -Y1- STA.16+50+/-
- WB INSIDE LANE FROM -Y1- STA.14+20+/- TO -Y1- STA.17+10+/-
- EB INSIDE LANE FROM -Y1- STA.12+80+/- TO -Y1- STA.15+90+/-
- EB OUTSIDE LANE FROM -Y1- STA.13+60+/- TO -Y1- STA.16+50+/-.

- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF PROPOSED -L- FROM STA.22+00+/- TO STA.49+00+/- INCLUDING MEDIAN AND END BENTS OF THE PROPOSED STRUCTURE OVER US 74.

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM	QUANTITY BREAKDOWN	TOTAL QUANTITY
PAVEMENT MARKINGS				
PA	WHITE EDGELINE (1X)	PAINT (4")	12400 LF	
PB	YELLOW EDGELINE (1X)	PAINT (4")	6400 LF	
PC	10 FT WHITE SKIP (1X)	PAINT (4")	1030 FT	
PI	DOUBLE YELLOW CENTER LINE (1X)	PAINT (4")	6000 FT	
			TOTAL:	25830 LF
MARKERS				
TEMPORARY RAISED PAVEMENT MARKERS				
MI	CRYSTAL & RED		60 EA	
MH	YELLOW & YELLOW		40 EA	
			TOTAL:	100 EA
NOTE:				
AS DIRECTED BY THE ENGINEER, TEMPORARY PAVEMENT MARKING (PAINT) MAY BE USED TO STRIPE THE FINAL TRAFFIC PATTERN ON -Y1-. THIS SCHEDULE INCLUDES QUANTITIES FOR PLACING ONE APPLICATION OF PAINT ON THE FINAL SURFACE OF NEW ASPHALT WITH PERMANENT TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE UNTIL THE PROPOSED FINAL PAVEMENT MARKING (POLYUREA) MAY BE APPLIED.				
FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATION, AND 3X IMPLIES THREE APPLICATION				

STEP 5:
- USING RSD 1101.02, SHEET 3 OF 9, COMPLETE CONSTRUCTION OF TEMPORARY DRAINAGE AT TEMPORARY CROSSOVER LOCATIONS UP TO AND TIE IN TO EXISTING US 74.

- AWAY FROM TRAFFIC AND BEHIND PCB, PERFORM THE FOLLOWING:
- COMPLETE CONSTRUCTION OF MEDIAN AND END BENTS OF THE PROPOSED STRUCTURE OVER US 74
- INSTALL PROPOSED MEDIAN GUARDRAIL AS SHOWN ON ROADWAY PLANS.

STEP 6:
USING RSD 1101.03, SHEET 3 OF 9, PERFORM THE FOLLOWING:

- 1) REMOVE TEMPORARY PCB AND CRASH CUSHIONS INSTALLED IN STEP 4 AT THE FOLLOWING LOCATIONS:
WB OUTSIDE LANE FROM -Y1- STA.13+60+/- TO -Y1- STA.16+50+/-
WB INSIDE LANE FROM -Y1- STA.14+20+/- TO -Y1- STA.17+10+/-
EB INSIDE LANE FROM -Y1- STA.12+80+/- TO -Y1- STA.15+90+/-
EB OUTSIDE LANE FROM -Y1- STA.13+60+/- TO -Y1- STA.16+50+/-.
- 2) PLACE TYPE III BARRICADES TO REMAIN OLD KINGSDALE RD. CLOSED TO TRAFFIC AS SHOWN ON SHEET TCP-6.

STEP 7:
USING RSD 1101.03, SHEET 6 OF 9, AND POLICE, AT NIGHT TIME PERFORM THE FOLLOWING:
SEE ROADWAY PLANS AND SHEET TCP-6.
AT THE END OF WORK PERIOD RETURN US 74 TRAFFIC TO EXISTING PATTERN (REFER TO PROJECT NOTES 'B' AND 'EE' ON SHEET TCP-2).

- 1) PLACE US 74 TRAFFIC ON TEMPORARY -WBLX- MEDIAN CROSSOVER IN A TEMPORARY ONE-LANE PATTERN IN EACH DIRECTION, AND INSTALL GIRDERS OF THE PROPOSED STRUCTURE OVER WB LANES OF US 74
- 2) PLACE US 74 TRAFFIC ON TEMPORARY -EBLX- MEDIAN CROSSOVER IN A TEMPORARY ONE-LANE PATTERN IN EACH DIRECTION, AND PERFORM THE FOLLOWING:
* INSTALL GIRDERS OF THE PROPOSED STRUCTURE OVER EB LANES OF US 74

* INSTALL 30" PIPE ON EB OF -Y1- (US 74). SEE SHEET TCP-6.

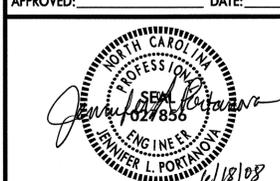
STEP 8:
AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF PROPOSED STRUCTURE AND PROPOSED -L- (OLD KINGSDALE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, PLACE TEMPORARY PAVEMENT MARKING (PAINT) & TEMPORARY PAVEMENT MARKERS (TEMPORARY RAISED) FROM STA.22+00+/- TO STA.49+00+/. REMOVE DETOUR SIGNS AND ALL TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN PROPOSED -L- (OLD KINGSDALE RD.) IN TWO-LANE, TWO-WAY FINAL TRAFFIC PATTERN. SEE ROADWAY PLANS AND SHEET PM-1.

STEP 9:
- USING RSD 1101.02, SHEET 3 OF 9, REMOVE TEMPORARY CROSSOVERS ON -Y1- (US 74) AND COMPLETE CONSTRUCTION OF PROPOSED MEDIAN ON -Y1- (US 74) IN THE PROJECT LIMITS. SEE ROADWAY PLANS.

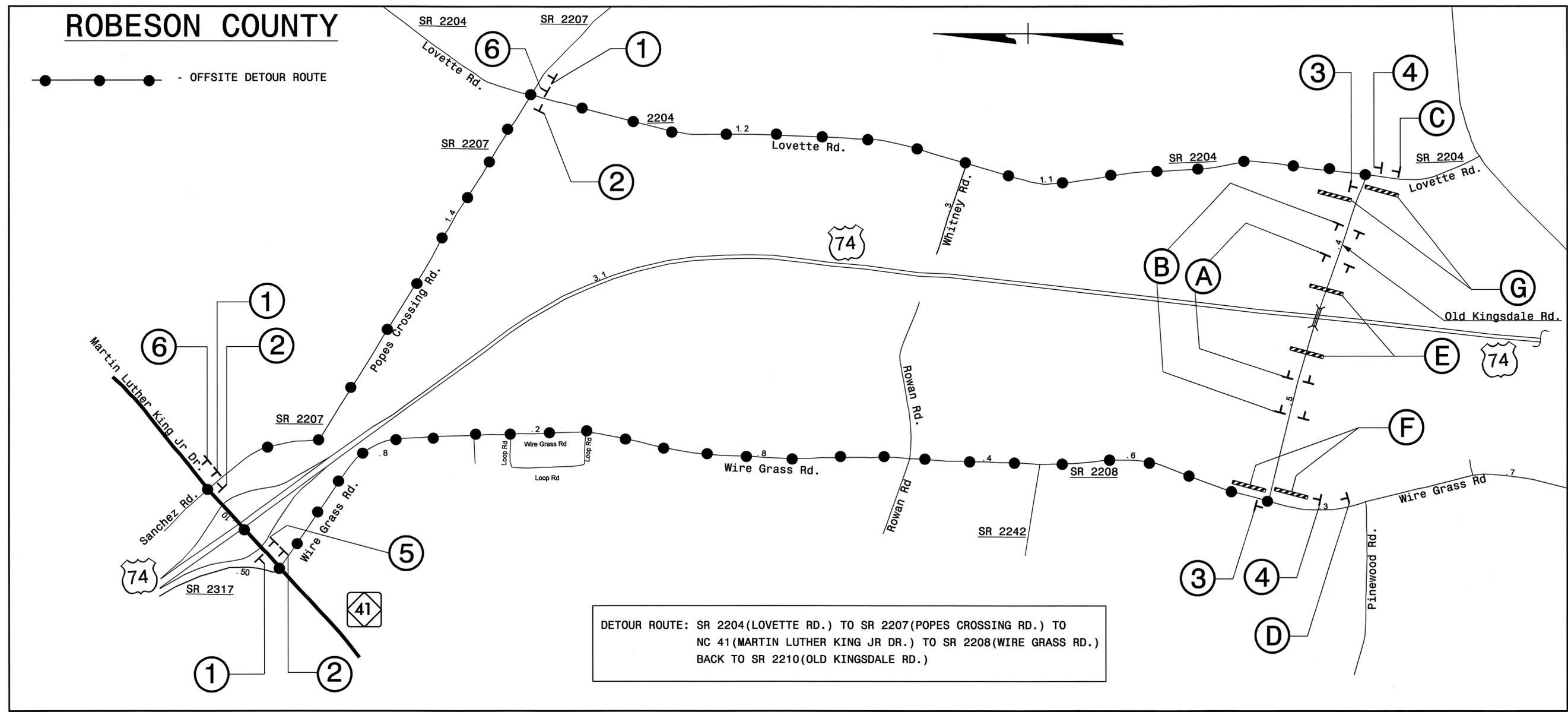
- USING RSD 1101.02, SHEET 1 OF 9, PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKING (POLYUREA) & FINAL PAVEMENT MARKERS (PERMANENT RAISED) ON -L- (OLD KINGSDALE RD.) FROM STA.22+00+/- TO STA.49+00+/-.

STEP 10:
USING RSD 1101.02, SHEET 3 OF 9, CONSTRUCT RESURFACING FROM -Y1- STA.6+15.00 TO -Y1- STA.24+65.06, PLACE FINAL PAVEMENT MARKING (POLYUREA) & FINAL PAVEMENT MARKERS (SNOWPLOWABLE) FROM -Y1- STA.6+15.00 TO -Y1- STA.24+65.06 AND TIE IN TO EXISTING PAVEMENT MARKING. SEE ROADWAY PLANS AND SHEET PM-1.

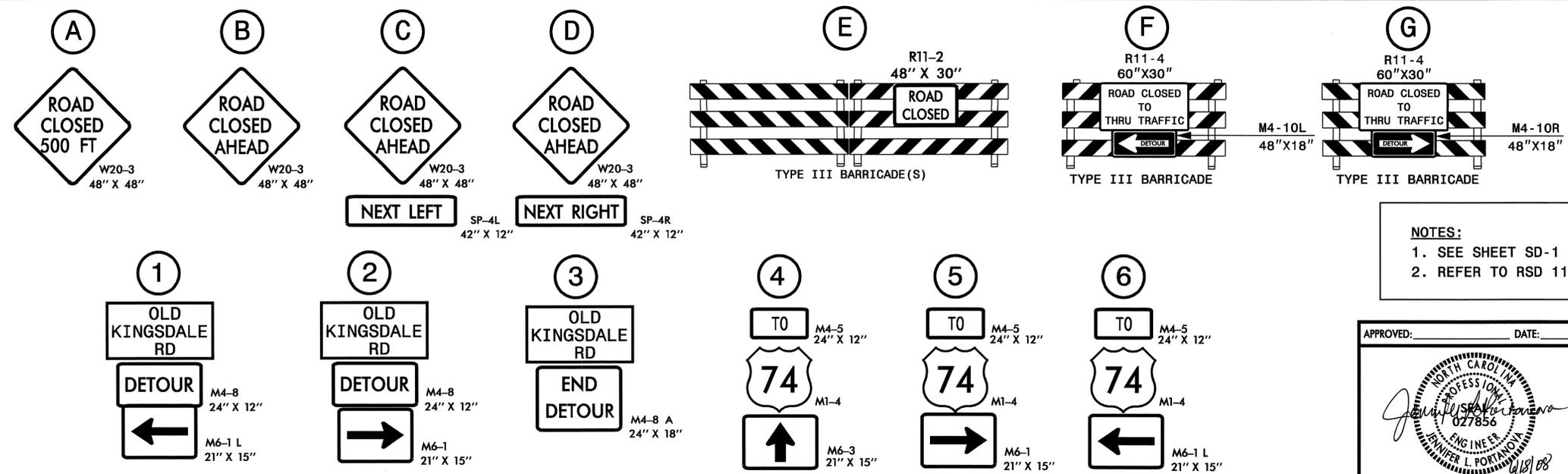
STEP 11:
REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES ON -Y1-.

APPROVED: _____ DATE: _____ 	PHASING AND TEMPORARY PAVEMENT MARKING SCHEDULE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">SCALE: NONE</td> <td style="text-align: center;">REVISIONS</td> </tr> <tr> <td style="text-align: center;">DATE: MAY-08</td> <td></td> </tr> <tr> <td style="text-align: center;">DWG. BY: AYL</td> <td></td> </tr> <tr> <td style="text-align: center;">DESIGN BY: AYL</td> <td></td> </tr> <tr> <td style="text-align: center;">REVIEWED BY: JLP</td> <td></td> </tr> </table>	SCALE: NONE	REVISIONS	DATE: MAY-08		DWG. BY: AYL		DESIGN BY: AYL		REVIEWED BY: JLP	
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DESIGN BY: AYL												
REVIEWED BY: JLP												

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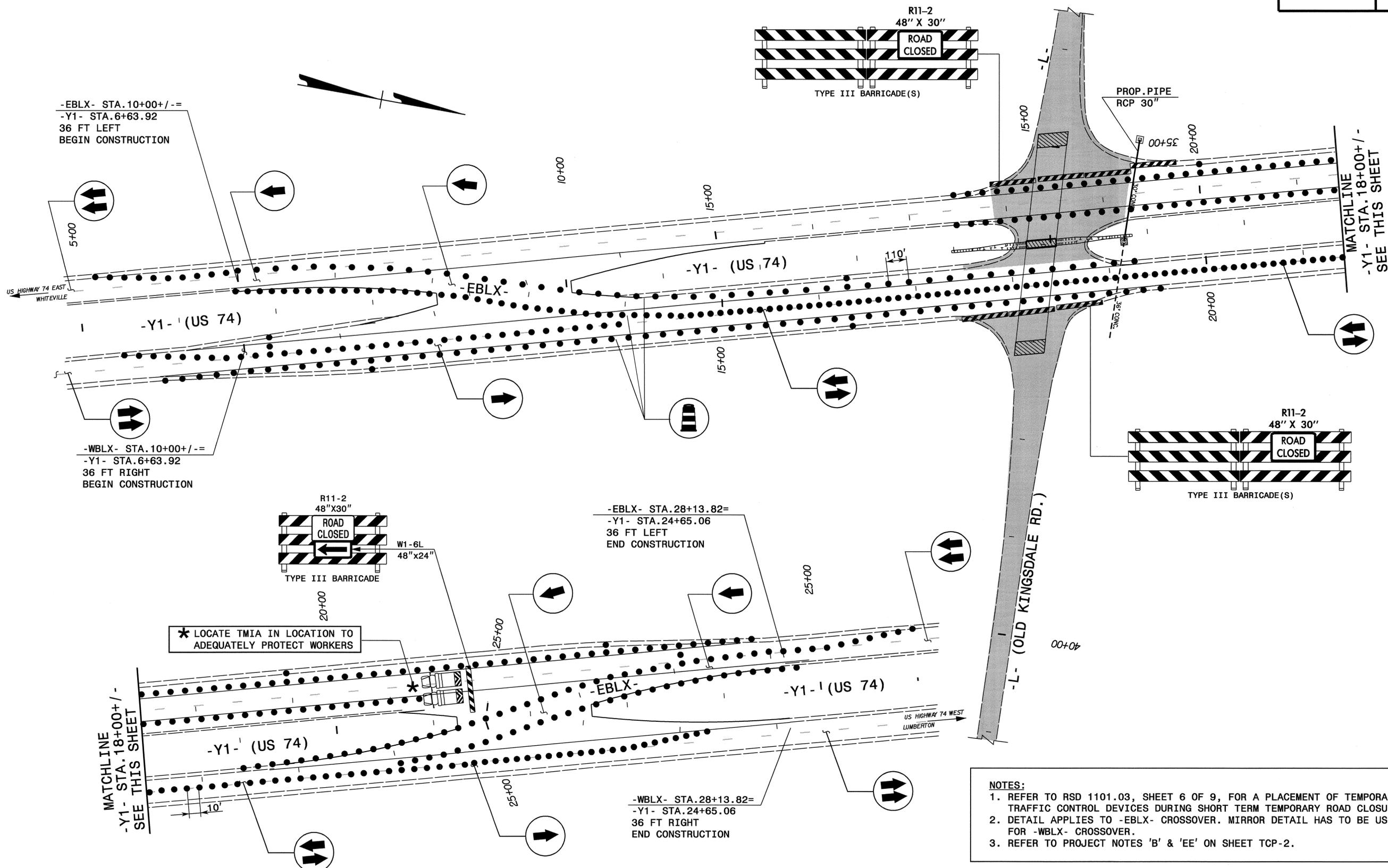
DETOUR ROUTE: SR 2204 (LOVETTE RD.) TO SR 2207 (POPES CROSSING RD.) TO NC 41 (MARTIN LUTHER KING JR DR.) TO SR 2208 (WIRE GRASS RD.) BACK TO SR 2210 (OLD KINGSDALE RD.)



NOTES:
 1. SEE SHEET SD-1 FOR DETOUR SIGN DESIGN.
 2. REFER TO RSD 1101.03, SHEET 1 OF 9, FOR SIGN DISTANCES.

APPROVED: _____ DATE: _____	DETOUR ROUTE AND BARRICADES PLACEMENT												
<table border="1"> <tr> <td>SCALE: NONE</td> <td rowspan="4" style="text-align: center;"> </td> <td>REVISIONS</td> </tr> <tr> <td>DATE: MAR-08</td> <td></td> </tr> <tr> <td>DWG. BY: AYL</td> <td></td> </tr> <tr> <td>DESIGN BY: AYL</td> <td></td> </tr> <tr> <td>REVIEWED BY: JLP</td> <td></td> <td>CADD FILE</td> </tr> </table>	SCALE: NONE		REVISIONS	DATE: MAR-08		DWG. BY: AYL		DESIGN BY: AYL		REVIEWED BY: JLP		CADD FILE	
SCALE: NONE			REVISIONS										
DATE: MAR-08													
DWG. BY: AYL													
DESIGN BY: AYL													
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 alyudmi AT WZTC237440



- NOTES:**
- REFER TO RSD 1101.03, SHEET 6 OF 9, FOR A PLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES DURING SHORT TERM TEMPORARY ROAD CLOSURES.
 - DETAIL APPLIES TO -EBLX- CROSSOVER. MIRROR DETAIL HAS TO BE USED FOR -WBLX- CROSSOVER.
 - REFER TO PROJECT NOTES 'B' & 'EE' ON SHEET TCP-2.

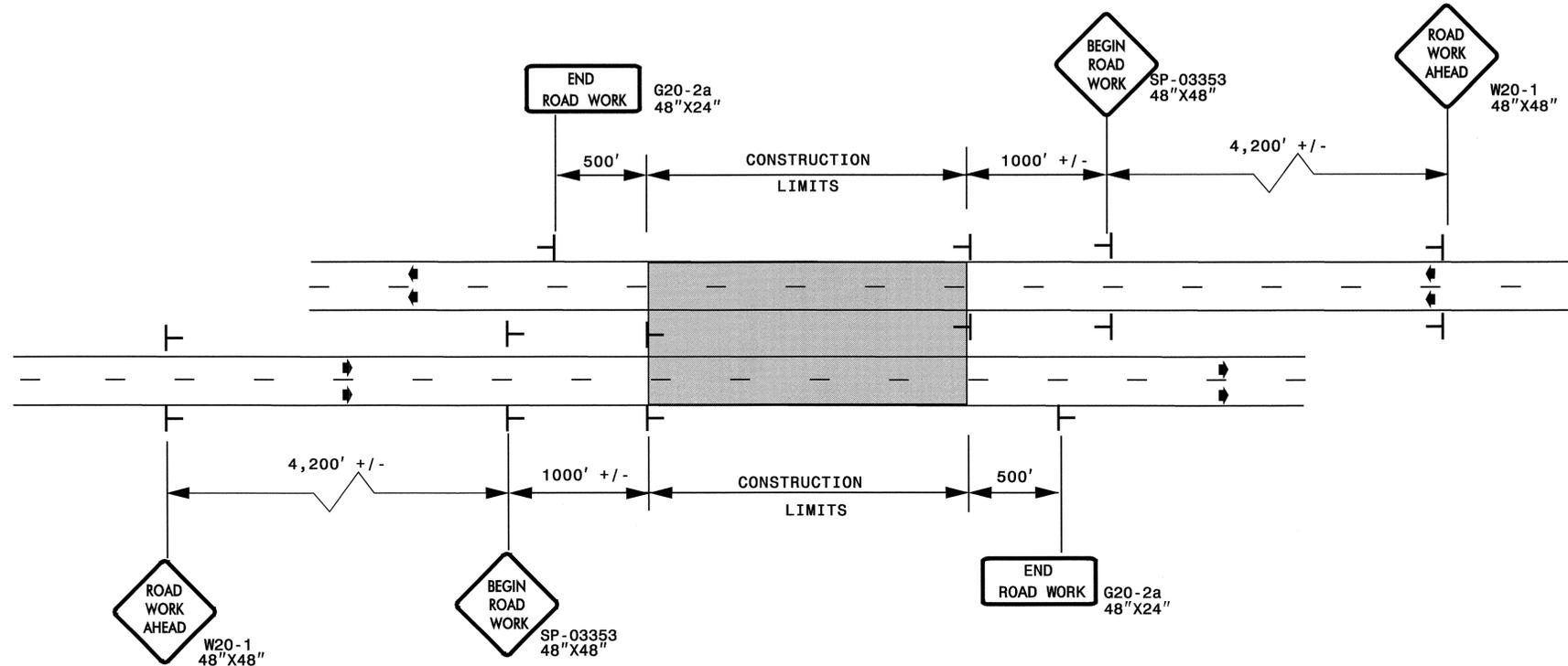
APPROVED:	DATE:	DETAIL 2	
SCALE:	NONE		REVISIONS
DATE:	MAY-08		
DWG. BY:	AYL		
DESIGN BY:	AYL		
REVIEWED BY:	JLP		CADD FILE

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 ayudm AT WZTC237440

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO.	SHEET NO.
W-4704	TCP-7

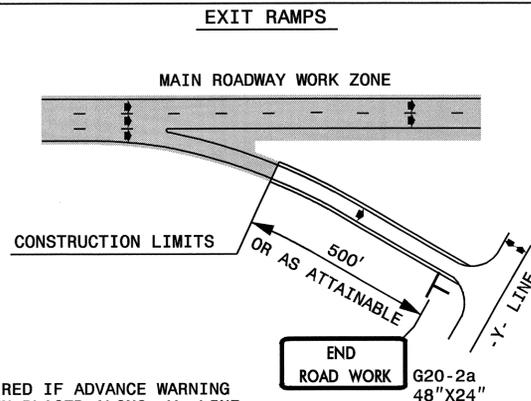
DETAIL A



LEGEND	
	STATIONARY SIGN
→	DIRECTION OF TRAFFIC FLOW

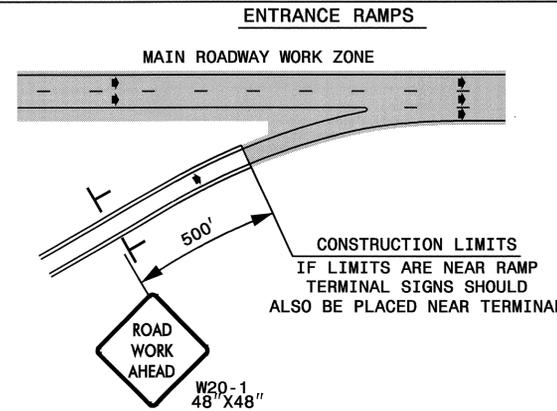
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B

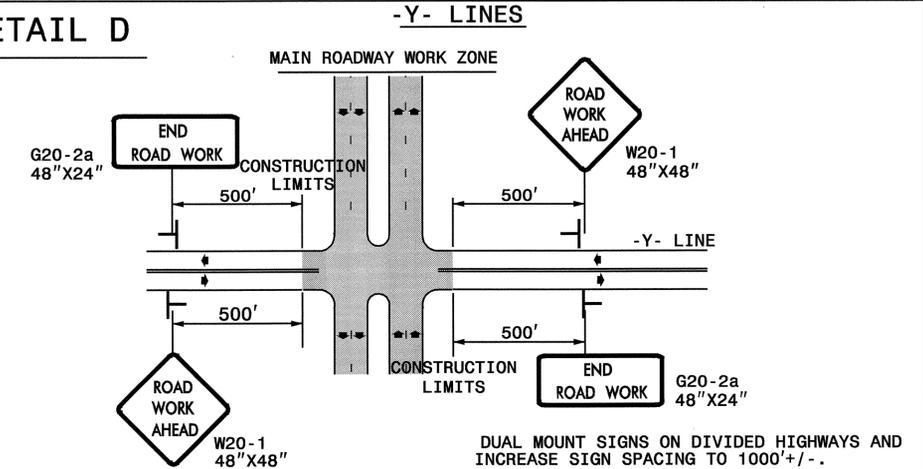


NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



DETAIL D



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.

APPROVED: _____	DATE: _____	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)		
	SCALE: NONE			
	DATE: 8/03			REVISIONS
	DWG. BY: JI			03/04
	DESIGN BY: JI			
REVIEWED BY: _____		CADD FILE		

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