

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-0061C	TCP-1

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

R-0061C

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
1101.05	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	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY)

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASING
TCP-4	PHASE I - ON-SITE DETOUR
TCP-5	PHASE I - ON-SITE DETOUR TEMPORARY PAVEMENT MARKINGS
TCP-6	PHASE II OVERVIEW
TCP-7	PHASE III - NC 211 - OFF-SITE DETOUR
TCP-8	PHASE III - DETAILS
TCP-8A	PHASE III - DETAILS
TCP-8B	PHASE III - DETAILS
TCP-9	ADVANCE WORK ZONE WARNING SIGNS
TCP-10	ADVANCE WORK ZONE WARNING SIGNS
TCP-11	ADVANCE WORK ZONE WARNING SIGN DESIGN
SD-1	SIGN DESIGN - U-TURN

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
 - FLASHING ARROW PANEL (TYPE C)
 - TYPE 'B' WARNING LIGHT
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - WARNING FLAGS
 - 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

TIP PROJECT:

25-MAY-2010 13:43
C:\Users\scott\Documents\Projects\R0061C\TrafficControl\TCP\R0061C_TC_gen_tcp01.dgn
SCOTT AT WE1231431

APPROVED: _____ DATE: _____	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER J. W. GILSTRAP TRAFFIC CONTROL PROJECT DESIGN ENGINEER S. B. COATS TRAFFIC CONTROL DESIGN ENGINEER

PHASING

PROJ. REFERENCE NO. R-0061C	SHEET NO. TCP-3
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PHASE I

- STEP 1. INSTALL ALL ADVANCE WORK ZONE SIGNS ON NC 211 AND US 74/76, SEE TCP-9 AND TCP-10.
- STEP 2. USING RSD NO. 1101.02 (SHEET 1 OF 9), CONSTRUCT -DET- LINE, INCLUDING TEMPORARY DRAINAGE, UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-4):
- STA. 10+29+/- -DET- TO STA. 17+70+/- -DET-
 - STA. 18+92+/- -DET- TO STA. 26+98+/- -DET-
- USING RSD NO. 1101.02 (SHEET 3 OF 9), CONSTRUCT -L- LINE, INCLUDING TEMPORARY DRAINAGE, UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-4):
- STA. 29+39+/- -L- TO STA. 31+34+/- -L- (WBL-OUTSIDE)
 - STA. 28+92+/- -L- TO STA. 31+45+/- -L- (WBL-MEDIAN)
 - STA. 25+80+/- -L- TO STA. 30+74+/- -L- (EBL-MEDIAN)
 - STA. 25+80+/- -L- TO STA. 30+99+/- -L- (EBL-OUTSIDE)
- INSTALL TEMPORARY SIGNAL AT INTX OF US 74/76 (-L-) AND -DET- (SEE SIGNAL PLANS AND TCP-5).
- REMOVE CONCRETE ISLANDS AND PLACE TEMPORARY PAVEMENT AS SHOWN ON TCP-4.
- REMOVE ADVANCED FLASHING WARNING LIGHTS FOR INTX OF US 74/76 AND NC 211, AS DIRECTED BY THE ENGINEER.
- STEP 3. AWAY FROM TRAFFIC, PLACE TEMPORARY (PAINT) MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-5):
- STA. 11+60+/- -DET- TO STA. 17+43+/- -DET-
 - STA. 19+13+/- -DET- TO STA. 25+75+/- -DET-

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE PHASE I, STEP 4.

- STEP 4. USING RSD NO. 1101.02 (SHEET 1 OF 9), PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-5):
- STA. 18+00+/- -Y- TO STA. 11+60+/- -DET-
 - STA. 25+75+/- -DET- TO STA. 34+80+/- -Y-
- USING RSD NO. 1101.02 (SHEET 3 OF 9) IN CONJUNCTION WITH POLICE, PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-5):
- STA. 25+93+/- -L- TO STA. 35+25+/- -L- (EBL)
 - STA. 28+77+/- -L- TO STA. 38+30+/- -L- (WBL)
- ACTIVATE TEMPORARY SIGNALS AT INTX OF US 74/76 (-L-) AND -DET-. DEACTIVATE EXISTING SIGNALS AT INTX OF US 74/76 (-L-) AND NC 211 (-Y-), (SEE SIGNAL PLANS, TCP-4, AND TCP-5).
- USING RSD 1101.03, SHEET 3 OF 9, PLACE BARRICADES AND DRUMS, CLOSE NC 211 (-Y-) AND OPEN DETOUR TO A TWO-LANE, TWO-WAY TRAFFIC PATTERN (SEE TCP-5).
- STEP 5. USING RSD NO. 1101.02 (SHEET 3 OF 9), PLACE PORTABLE CONCRETE BARRIER AND DRUMS AS FOLLOWS (SEE TCP-5):
- STA. 31+70+/- -L- TO STA. 34+20+/- -L- (WBL-OUTSIDE)
 - STA. 32+00+/- -L- TO STA. 34+70+/- -L- (WBL-MEDIAN)
 - STA. 31+00+/- -L- TO STA. 33+30+/- -L- (EBL-MEDIAN)
 - STA. 31+50+/- -L- TO STA. 33+70+/- -L- (EBL-OUTSIDE)

PHASE II

CONTRACTOR MAY WORK PHASE II, STEP 1 AND 2 SIMULTANEOUSLY.

- STEP 1. AWAY FROM TRAFFIC, CONSTRUCT PROPOSED BRIDGE, APPROACHES, AND DRAINAGE UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-6):
- STA. 21+50+/- -Y- TO STA. 31+00+/- -Y-
 - STA. 15+28+/- -RPA- TO STA. 30+19+/- -RPA-
 - STA. 14+24+/- -RPB- TO STA. 20+50+/- -RPB-
 - STA. 22+15+/- -RPB- TO STA. 22+69+/- -RPB-
 - STA. 14+28+/- -RPC- TO STA. 25+00+/- -RPC-
 - STA. 17+71+/- -RPD- TO STA. 25+00+/- -RPD-
- NOTE: AS APPROVED BY THE ENGINEER, THE CONTRACTOR MAY USE TEMPORARY SLOPES OF 2.5:1 OR FLATTER TO KEEP PROPOSED FILL FROM DETOUR DRAINAGE DITCH AS FOLLOWS:
- STA. 21+50+/- -Y- TO STA. 22+00+/- -Y-
- NOTE: PAVING OF ASPHALT MAY BE DELAYED UNTIL PHASE III, STEP 3.

- AWAY FROM TRAFFIC, CONSTRUCT FILL AS DIRECTED BY THE ENGINEER AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-6):
- STA. 20+20+/- -Y- TO STA. 21+50+/- -Y-
 - STA. 31+00+/- -Y- TO STA. 32+67+/- -Y-
 - STA. 28+07+/- -RPC- TO STA. 28+47+/- -RPC-
 - STA. 25+00+/- -RPD- TO STA. 26+16+/- -RPD-

NOTE: AS DIRECTED BY THE ENGINEER, USE RSD 1101.03, SHEET 9 OF 9, TO TEMPORARILY CLOSE US 74/76 TO PLACE BRIDGE GIRDERS OVER ROADWAY. MAY USE LAW ENFORCEMENT TO STOP TRAFFIC WHEN PLACING BRIDGE GIRDERS OVER US 74/76 DURING CONSTRUCTION.

- STEP 2. USING RSD NO. 1101.02 (SHEET 3 OF 9), CONSTRUCT SHOULDER UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-6):

- STA. 10+00+/- -L- TO STA. 26+43+/- -L- (EBL-OUTSIDE)
- STA. 33+77+/- -L- TO STA. 57+50+/- -L- (EBL-OUTSIDE)
- STA. 10+00+/- -L- TO STA. 29+48+/- -L- (WBL-OUTSIDE)
- STA. 35+40+/- -L- TO STA. 57+50+/- -L- (WBL-OUTSIDE)
- STA. 10+00+/- -RPA- TO STA. 15+28+/- -RPA-
- STA. 10+00+/- -RPB- TO STA. 14+24+/- -RPB-
- STA. 10+00+/- -RPC- TO STA. 14+28+/- -RPC-
- STA. 10+00+/- -RPD- TO STA. 17+71+/- -RPD-

PHASE III

- STEP 1. INSTALL ALL OFF-SITE DETOUR SIGNING AND TRAFFIC CONTROL DEVICES AS SHOWN ON TCP-7.

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE III, STEP 2 THRU STEP 6 IN 105 CONSECUTIVE CALENDER DAYS. (SEE INTERMEDIATE CONTRACT AND LIQUIDATED DAMAGES).

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE III, STEP 2 THRU STEP 4 IN 60 CONSECUTIVE CALENDER DAYS. (SEE INTERMEDIATE CONTRACT AND LIQUIDATED DAMAGES).

- STEP 2. USING RSD 1101.03, SHEETS 1 AND 2 OF 9, CLOSE THE NC 211 (-DET-) AS SHOWN ON TCP-7 AND TCP-8. USE DRUMS TO CLOSE TURN LANES AND DEACTIVATE TEMPORARY SIGNALS.

- USING RSD NO. 1101.02 (SHEET 3 OF 9), PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-8):
- STA. 29+29+/- -L- TO STA. 32+02+/- -L- (WBL-OUTSIDE)
 - STA. 29+60+/- -L- TO STA. 30+32+/- -L- (WBL-CENTERLINE)
 - STA. 28+77+/- -L- TO STA. 32+02+/- -L- (WBL-MEDIAN)
 - STA. 26+00+/- -L- TO STA. 31+64+/- -L- (EBL-MEDIAN)
 - STA. 29+80+/- -L- TO STA. 30+84+/- -L- (EBL-CENTERLINE)
 - STA. 25+68+/- -L- TO STA. 31+23+/- -L- (EBL-OUTSIDE)

- MAINTAIN ACCESS TO ALL DRIVEWAYS WITHIN PROJECT LIMITS.
- CONTRACTOR MAY REMOVE TEMPORARY PAVEMENT AS SHOWN ON TCP-8.

- STEP 3. AWAY FROM TRAFFIC, CONSTRUCT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND CONCRETE ISLANDS AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-8):

- STA. 14+00+/- -Y- TO STA. 21+50+/- -Y-
- STA. 31+00+/- -Y- TO STA. 40+00+/- -Y-
- STA. 28+07+/- -RPC- TO STA. 28+47+/- -RPC-
- STA. 25+00+/- -RPD- TO STA. 26+16+/- -RPD-

- AWAY FROM TRAFFIC, PLACE THE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS ON NEWLY COMPLETED NC 211 (-Y-) AND RAMPS A AND D AS FOLLOWS (SEE FINAL PAVEMENT MARKING PLANS):

- STA. 14+00+/- -Y- TO STA. 40+00+/- -Y-
- STA. 16+29+/- -RPA- TO STA. 30+19+/- -RPA-
- STA. 18+67+/- -RPD- TO STA. 26+16+/- -RPD-

- USING RSD NO. 1101.02 (SHEET 3 OF 9), PLACE TEMPORARY (PAINT) MARKINGS AND MARKINGS FOR RAMPS ONLY, AS FOLLOWS (SEE FINAL PAVEMENT MARKING PLANS):

- STA. 16+29+/- -RPA- TO STA. 53+00+/- -L-
- STA. 18+67+/- -RPD- TO STA. 53+00+/- -L-

- INSTALL/REMOVE/RESET OFF-SITE DETOUR SIGNING AS SHOWN ON TCP-8A AND TCP-8B.

- STEP 4. REMOVE OFF-SITE DETOUR SIGNING (AS REQUIRED) AND TRAFFIC CONTROL DEVICES AND OPEN NC 211 (-Y-) AND RAMPS A AND D TO FINAL TRAFFIC PATTERN (SEE TCP 8A).

NOTE: INSTALL DRUMS AND TYPE III BARRICADES TO KEEP PROPOSED RAMPS B AND C CLOSED (SEE TCP-8A).

- STEP 5. AWAY FROM TRAFFIC, CONSTRUCT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND CONCRETE ISLANDS AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-8A):

- STA. 20+50+/- -RPB- TO STA. 22+15+/- -RPB-
- STA. 25+00+/- -RPC- TO STA. 28+07+/- -RPC-

- AWAY FROM TRAFFIC, PLACE THE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS ON NEWLY COMPLETED RAMPS B AND C AS FOLLOWS (SEE FINAL PAVEMENT MARKING PLANS):

- STA. 15+17+/- -RPB- TO STA. 22+69+/- -RPB-
- STA. 15+28+/- -RPC- TO STA. 28+47+/- -RPC-

- USING RSD NO. 1101.02 (SHEET 3 OF 9), PLACE TEMPORARY (PAINT) MARKINGS AND MARKINGS FOR RAMPS ONLY, AS FOLLOWS (SEE FINAL PAVEMENT MARKING PLANS):

- STA. 13+00+/- -L- TO STA. 15+17+/- -RPB-
- STA. 13+72+/- -L- TO STA. 15+28+/- -RPC-

- STEP 6. REMOVE ALL OFF-SITE DETOUR SIGNING AND TRAFFIC CONTROL DEVICES AND OPEN RAMPS B AND C TO FINAL TRAFFIC PATTERN.

PHASE IV

- STEP 1. USING RSD NO. 1101.02 (SHEET 3 OF 9), REMOVE PORTABLE CONCRETE BARRIER AND CONSTRUCT SHOULDER UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS FOLLOWS (SEE CONSTRUCTION PLANS AND TCP-8):

- STA. 10+00+/- -L- TO STA. 57+50+/- -L- (EBL-MEDIAN)
- STA. 10+00+/- -L- TO STA. 57+50+/- -L- (WBL-MEDIAN)
- STA. 25+68+/- -L- TO STA. 34+17+/- -L- (EBL-OUTSIDE)
- STA. 29+29+/- -L- TO STA. 36+92+/- -L- (WBL-OUTSIDE)

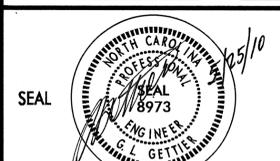
- STEP 2. USING RSD 1101.02 (SHEET 2 OF 9), PLACE THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE CONSTRUCTION PLANS AND FINAL PAVEMENT MARKING PLANS):

- STA. 14+00+/- -Y- TO STA. 40+50+/- -Y-
- STA. 16+29+/- -RPA- TO STA. 30+19+/- -RPA-
- STA. 15+17+/- -RPB- TO STA. 22+69+/- -RPB-
- STA. 15+28+/- -RPC- TO STA. 28+47+/- -RPC-
- STA. 18+67+/- -RPD- TO STA. 26+16+/- -RPD-

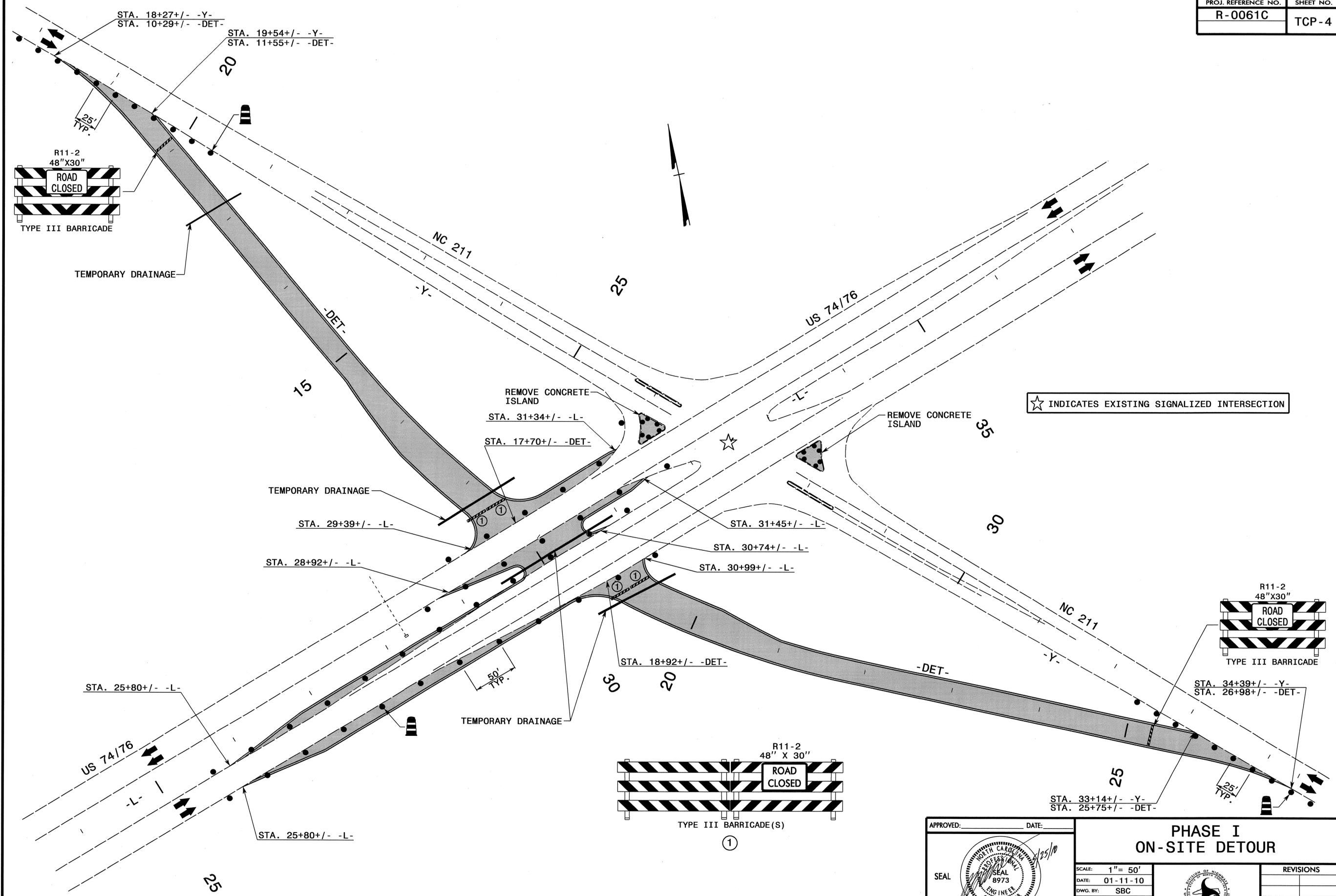
- USING RSD NO. 1101.02 (SHEET 3 OF 9), PAVE/WEDGE UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE CONSTRUCTION PLANS AND FINAL PAVEMENT MARKING PLANS):

- STA. 10+00+/- -L- TO STA. 57+50+/- -L- (EBL)
- STA. 10+00+/- -L- TO STA. 57+50+/- -L- (WBL)
- STA. 10+00+/- -RPA- TO STA. 16+29+/- -RPA-
- STA. 10+00+/- -RPB- TO STA. 15+17+/- -RPB-
- STA. 10+00+/- -RPC- TO STA. 15+28+/- -RPC-
- STA. 10+00+/- -RPD- TO STA. 18+67+/- -RPD-

- STEP 3. REMOVE ALL TRAFFIC CONTROL DEVICES AND ADVANCE WARNING SIGNS FROM US 74/76 (-L-) AND NC 211 (-Y-).

APPROVED: _____	DATE: _____	<h1 style="margin: 0;">PHASING</h1>									
		SCALE: NONE									
		DATE: 01-11-10									
		DWG. BY: SBC									
		DESIGN BY: SBC									
		REVIEWED BY: JWG									
											
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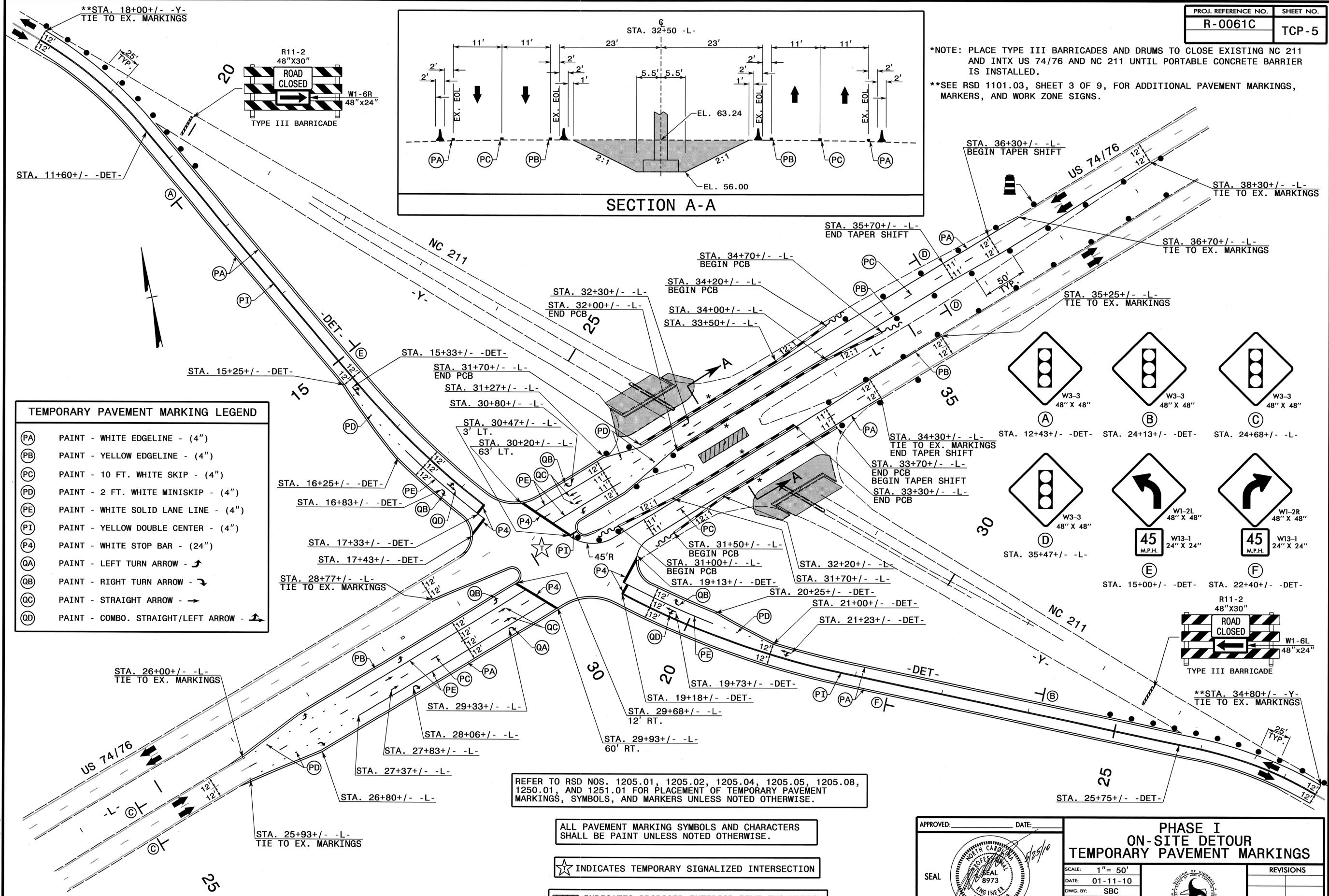
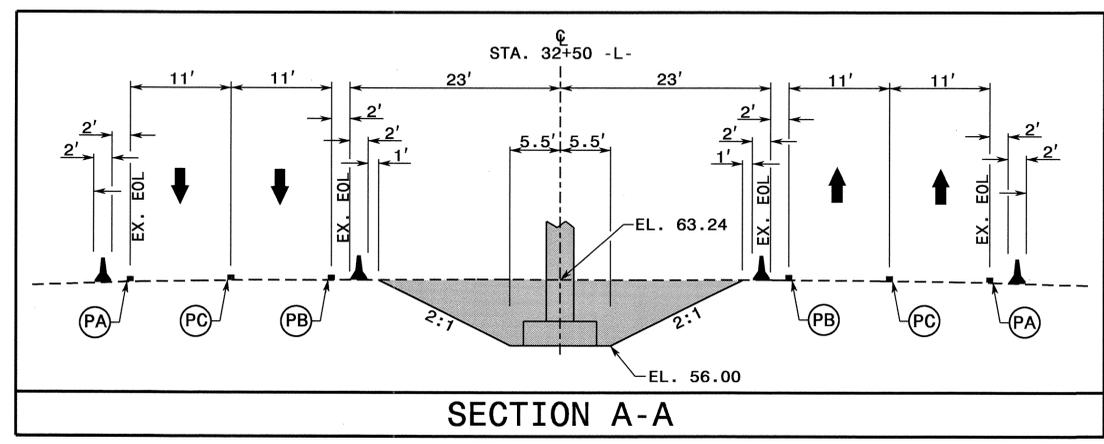
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 SC0015 AT 12:23:45P



25-MAY-2010 13:45
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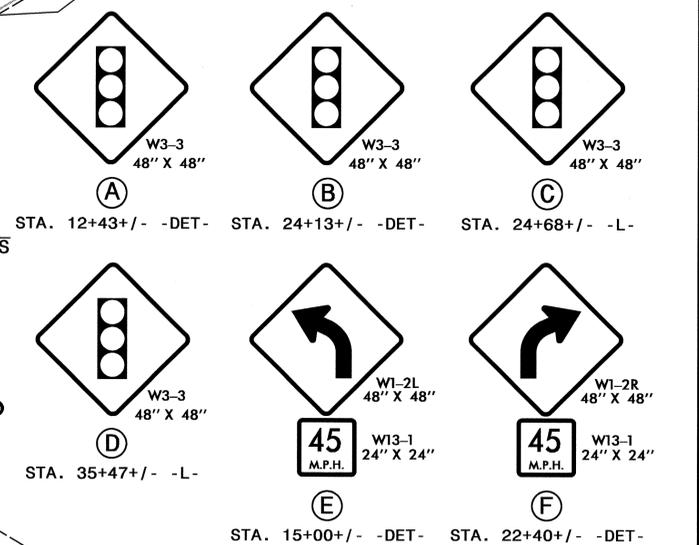
APPROVED: _____	DATE: _____
PHASE I ON-SITE DETOUR	
SCALE: 1" = 50'	REVISIONS
DATE: 01-11-10	
DWG. BY: SBC	
DESIGN BY: SBC	
REVIEWED BY: JWG	

NOTE: PLACE TYPE III BARRICADES AND DRUMS TO CLOSE EXISTING NC 211 AND INTX US 74/76 AND NC 211 UNTIL PORTABLE CONCRETE BARRIER IS INSTALLED.
 **SEE RSD 1101.03, SHEET 3 OF 9, FOR ADDITIONAL PAVEMENT MARKINGS, MARKERS, AND WORK ZONE SIGNS.



TEMPORARY PAVEMENT MARKING LEGEND

(PA)	PAINT - WHITE EDGELINE - (4")
(PB)	PAINT - YELLOW EDGELINE - (4")
(PC)	PAINT - 10 FT. WHITE SKIP - (4")
(PD)	PAINT - 2 FT. WHITE MINISKIP - (4")
(PE)	PAINT - WHITE SOLID LANE LINE - (4")
(PI)	PAINT - YELLOW DOUBLE CENTER - (4")
(P4)	PAINT - WHITE STOP BAR - (24")
(QA)	PAINT - LEFT TURN ARROW - ↶
(QB)	PAINT - RIGHT TURN ARROW - ↷
(QC)	PAINT - STRAIGHT ARROW - →
(QD)	PAINT - COMBO. STRAIGHT/LEFT ARROW - ↶→



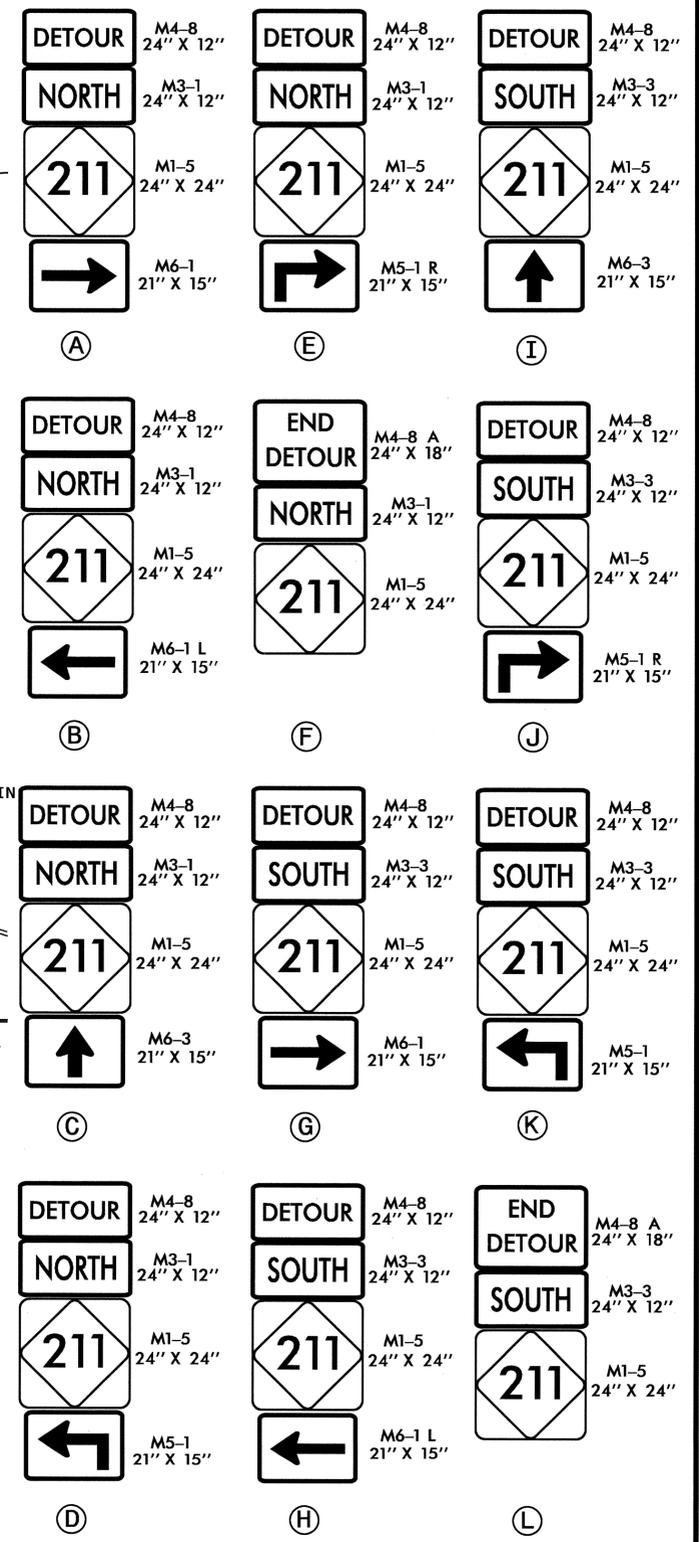
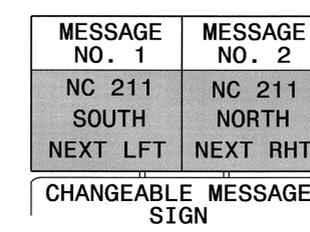
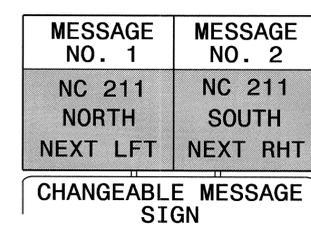
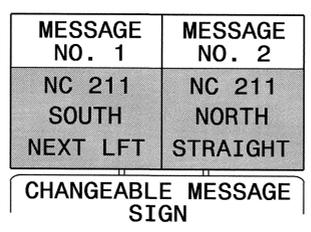
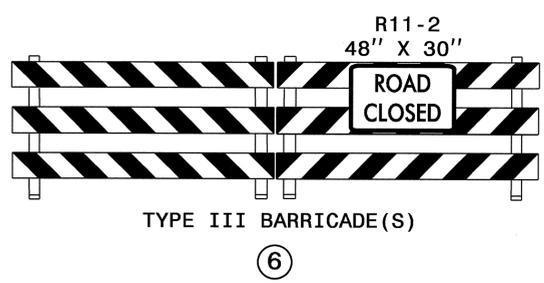
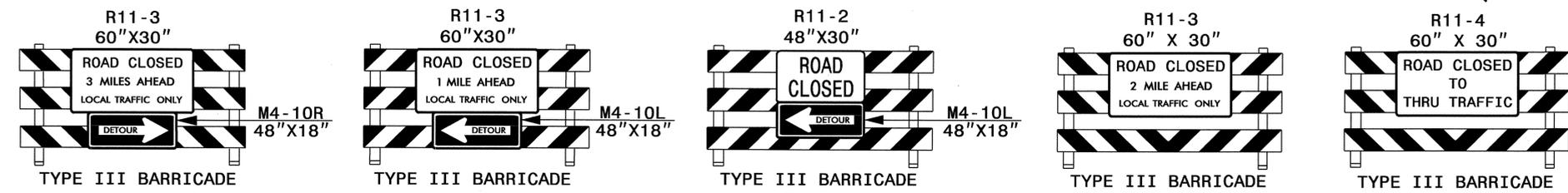
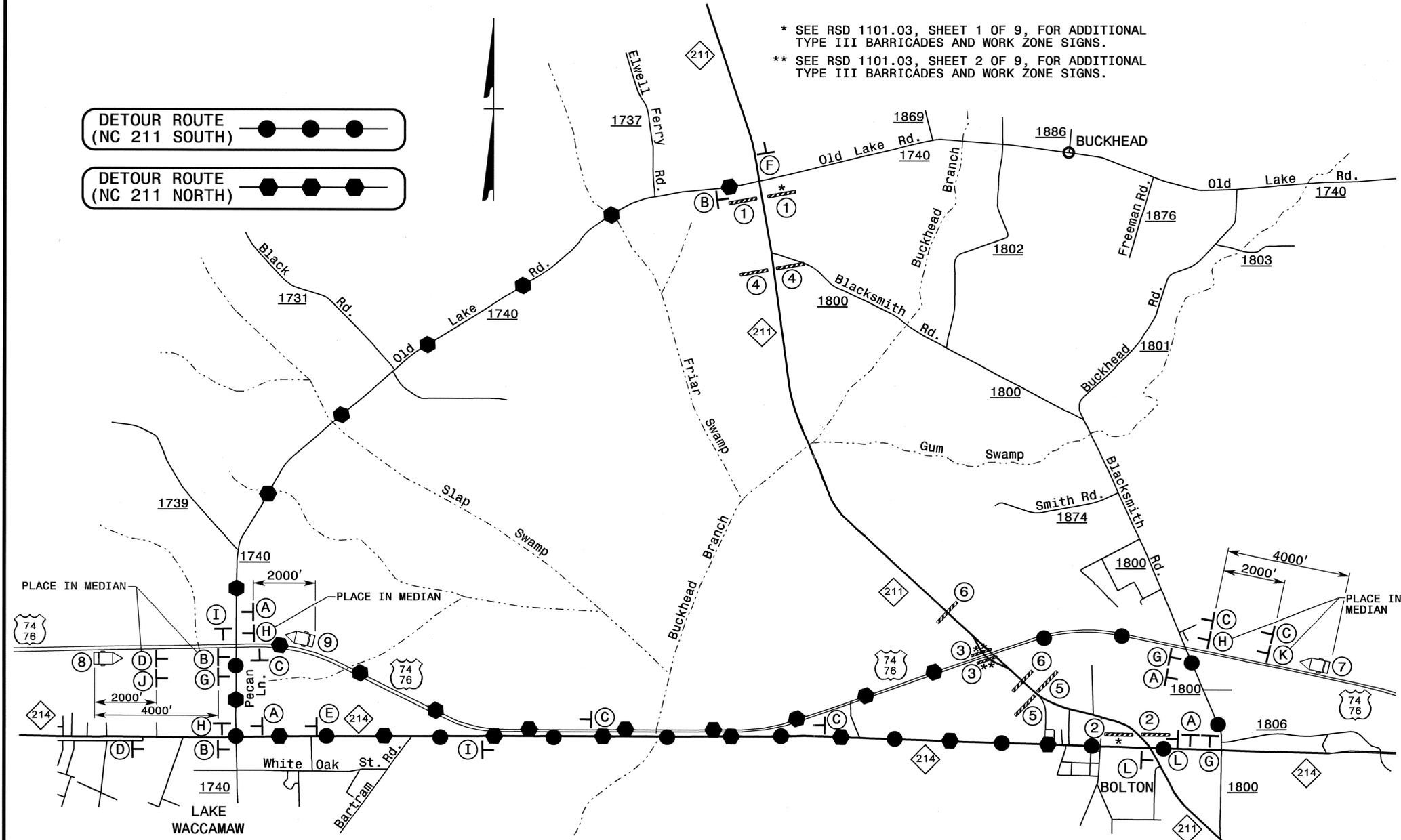
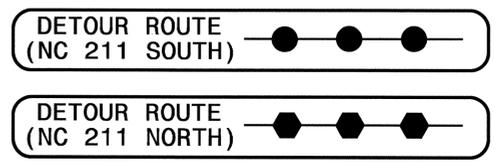
REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

- ALL PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.
- ★ INDICATES TEMPORARY SIGNALIZED INTERSECTION
- ▨▨▨▨▨ INDICATES PROPOSED INTERIOR BENT EXCAVATION

APPROVED: _____	DATE: _____
PHASE I ON-SITE DETOUR TEMPORARY PAVEMENT MARKINGS	
SCALE: 1" = 50'	REVISIONS
DATE: 01-11-10	
DWG. BY: SBC	
DESIGN BY: SBC	
REVIEWED BY: JWG	

25-MAY-2010 13:45
 \\g01\dfs\p01\01\p01\TIPProjects\R0061C\TrafficControl\TCP.R0061C.TC.dml.tcp05.dgn
 SCOOTIS AT W12345

* SEE RSD 1101.03, SHEET 1 OF 9, FOR ADDITIONAL TYPE III BARRICADES AND WORK ZONE SIGNS.
 ** SEE RSD 1101.03, SHEET 2 OF 9, FOR ADDITIONAL TYPE III BARRICADES AND WORK ZONE SIGNS.



APPROVED: _____ DATE: _____

SEAL: [Professional Engineer Seal]

**PHASE III
NC 211
OFF-SITE DETOUR**

SCALE: 1"=2000'
 DATE: 01-11-10
 DWG. BY: SBC
 DESIGN BY: SBC
 REVIEWED BY: JWG

REVISIONS	

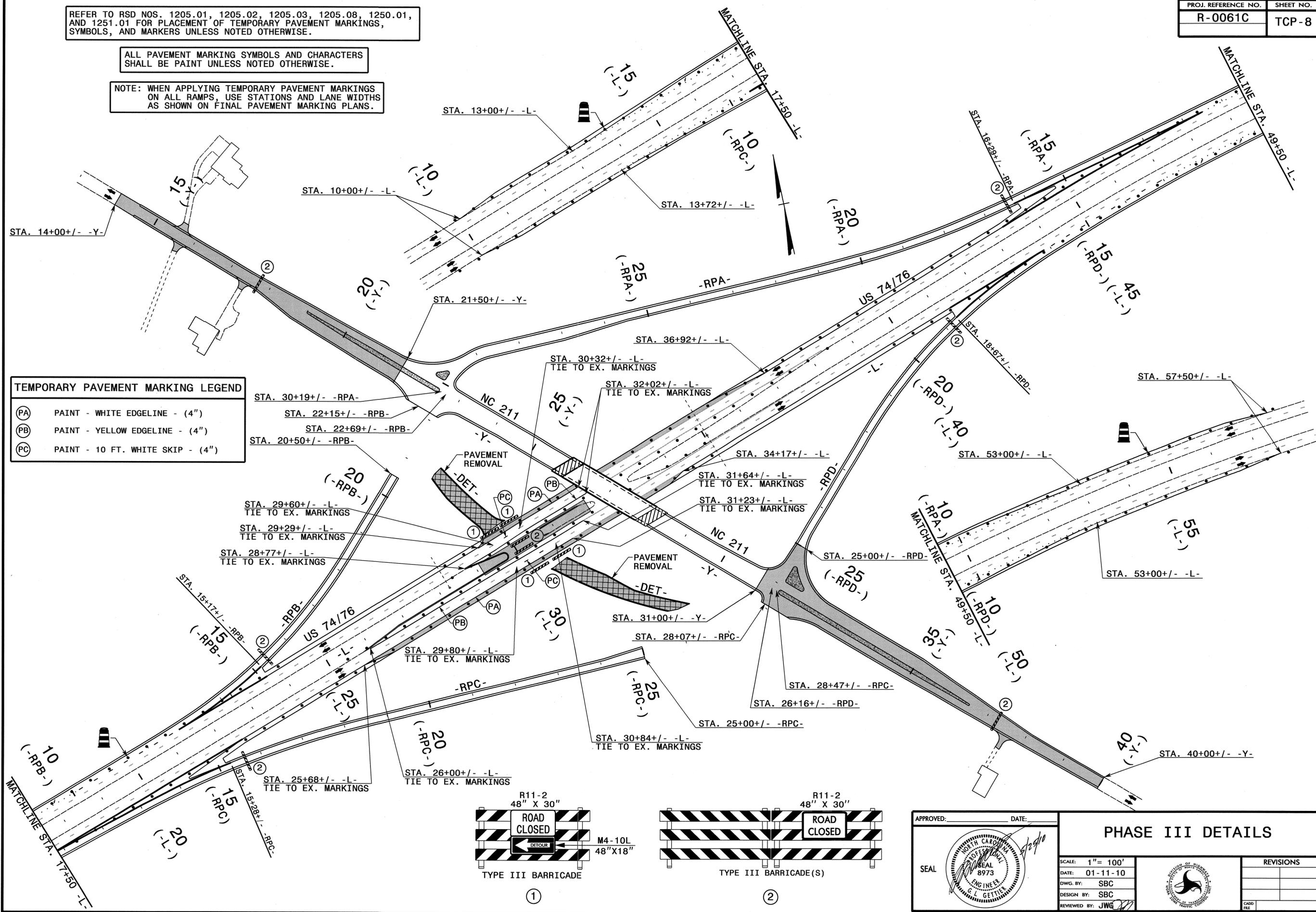
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 scotts AT WZ1237457

REFER TO RSD NOS. 1205.01, 1205.02, 1205.03, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

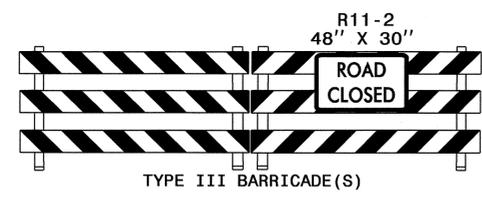
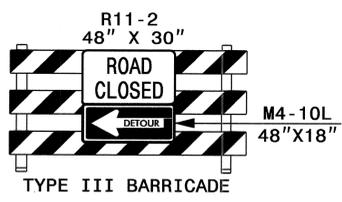
ALL PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

NOTE: WHEN APPLYING TEMPORARY PAVEMENT MARKINGS ON ALL RAMP, USE STATIONS AND LANE WIDTHS AS SHOWN ON FINAL PAVEMENT MARKING PLANS.

TEMPORARY PAVEMENT MARKING LEGEND	
(PA)	PAINT - WHITE EDGELINE - (4")
(PB)	PAINT - YELLOW EDGELINE - (4")
(PC)	PAINT - 10 FT. WHITE SKIP - (4")



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 scott.s AT WZ12237457



APPROVED: _____ DATE: _____

SEAL

PHASE III DETAILS

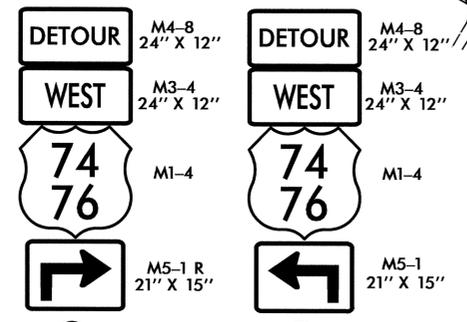
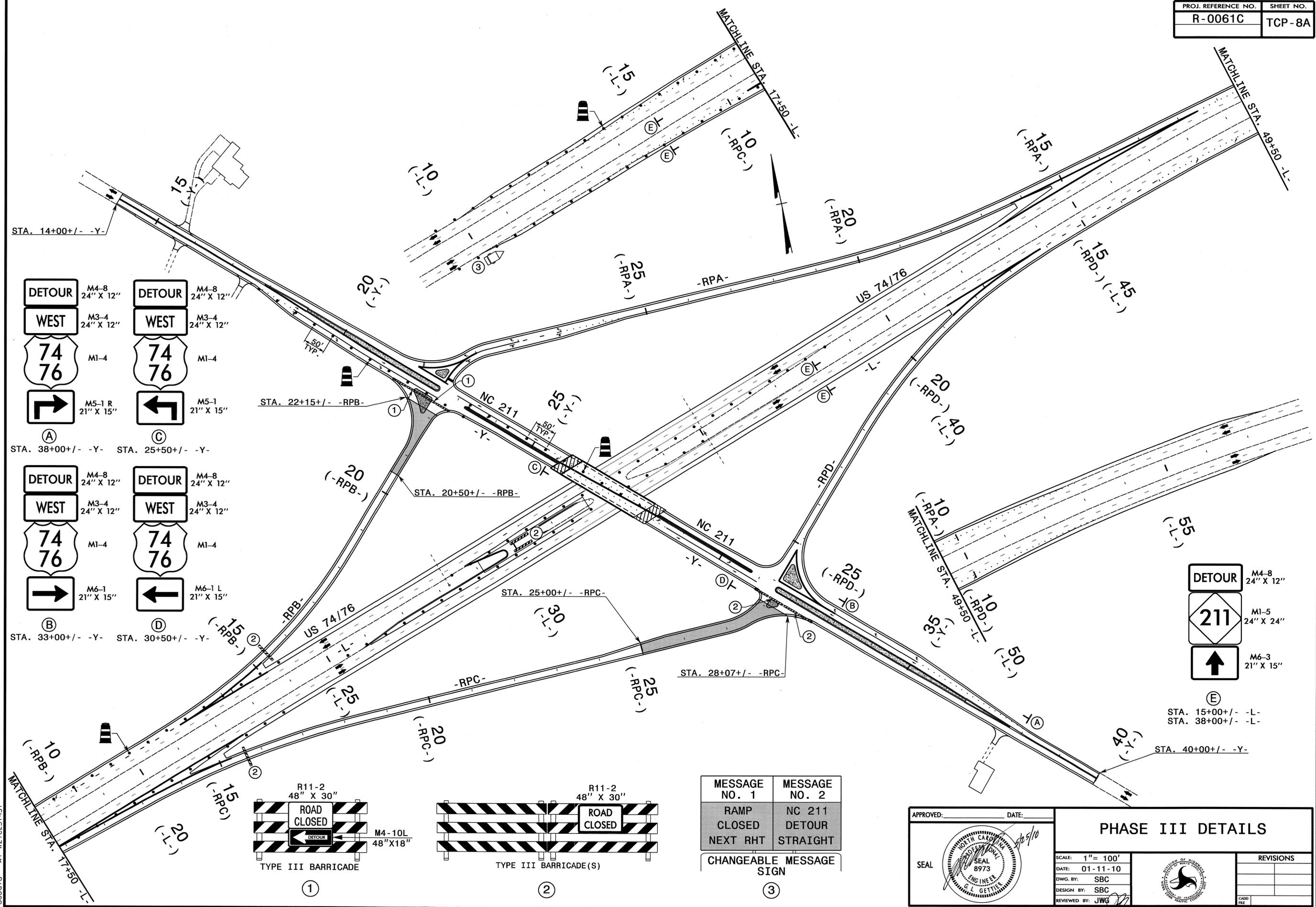
SCALE: 1" = 100'

DATE: 01-11-10

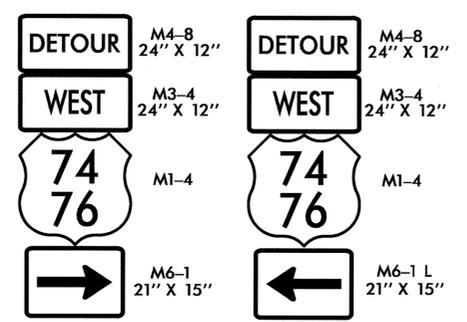
DESIGN BY: SBC

REVIEWED BY: JWG

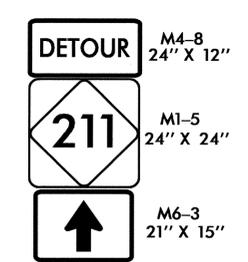
REVISIONS	



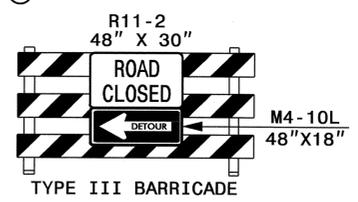
①
STA. 38+00+/- -Y- STA. 25+50+/- -Y-



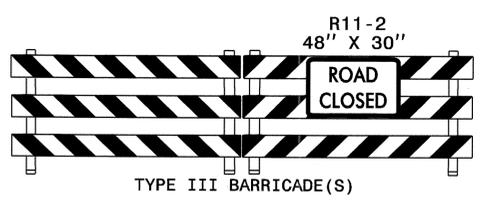
②
STA. 33+00+/- -Y- STA. 30+50+/- -Y-



⑤
STA. 15+00+/- -L-
STA. 38+00+/- -L-



①
TYPE III BARRICADE



②
TYPE III BARRICADE(S)

MESSAGE NO. 1	MESSAGE NO. 2
RAMP CLOSED	NC 211 DETOUR
NEXT RHT	STRAIGHT

CHANGEABLE MESSAGE SIGN

③

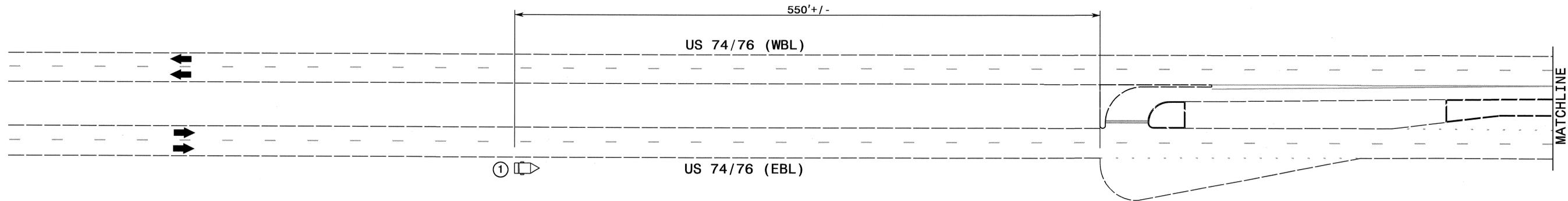
APPROVED: _____ DATE: _____

PHASE III DETAILS

SCALE: 1" = 100'		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
REVISIONS										
DATE: 01-11-10										
DWG. BY: SBC										
DESIGN BY: SBC										

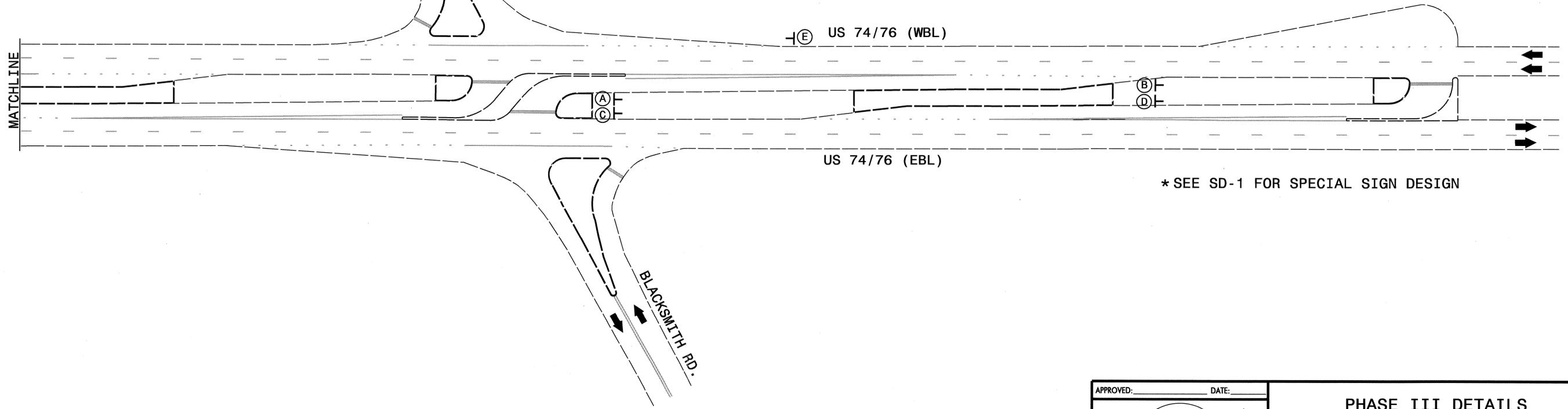
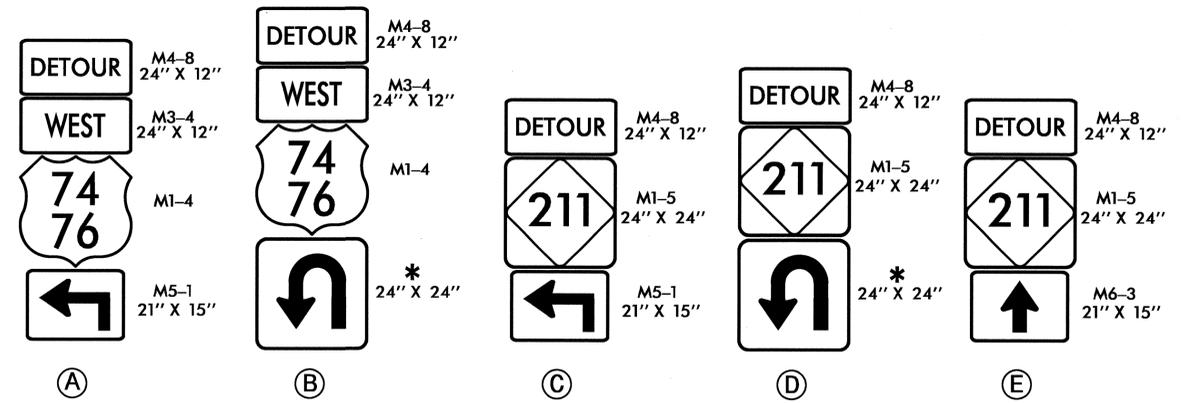
REVIEWED BY: JWQ

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 scoots AT WZTC237457



MESSAGE NO. 1	MESSAGE NO. 2
US 74/76 WEST AND NC 211	DETOUR SECOND LEFT

CHANGEABLE MESSAGE SIGN

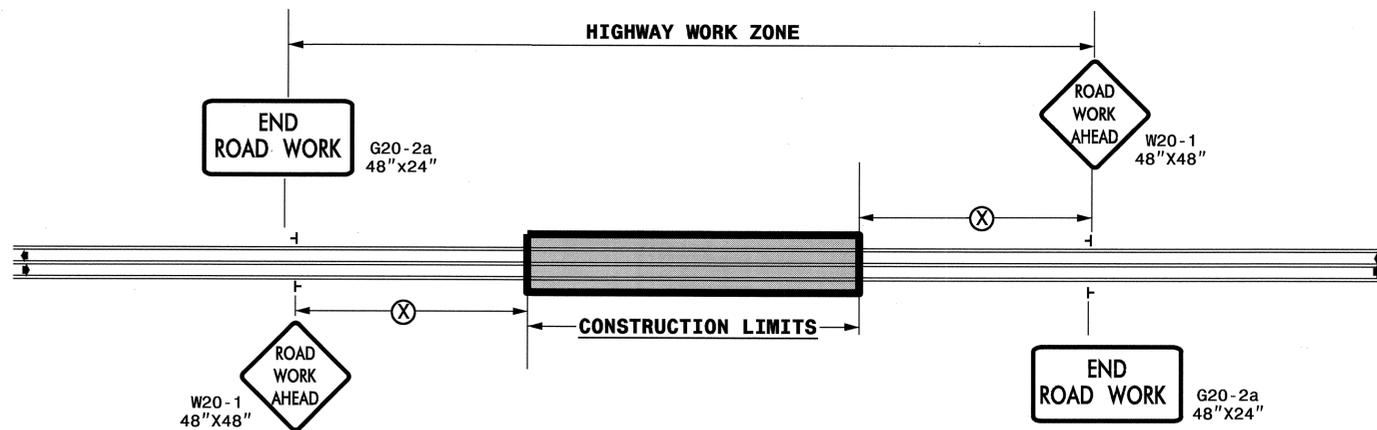


* SEE SD-1 FOR SPECIAL SIGN DESIGN

25-MAY-2010 13:49
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 sc00701 AT WZTC231457

APPROVED: _____	DATE: _____	PHASE III DETAILS									
SCALE: 1" = 50'	DATE: 04-15-10	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS							
REVISIONS											
DWG. BY: SBC	DESIGN BY: SBC										
REVIEWED BY: JWG		<table border="1"> <tr> <td>CADD FILE</td> <td> </td> </tr> </table>		CADD FILE							
CADD FILE											

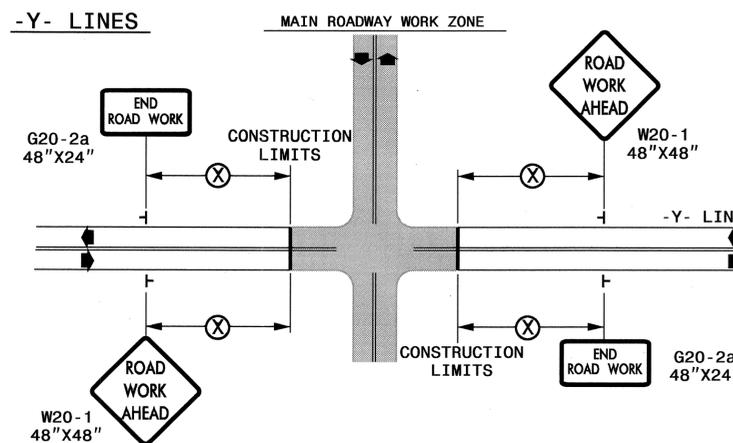
TWO-WAY UNDIVIDED ** (L-LINES)



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)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE 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

DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

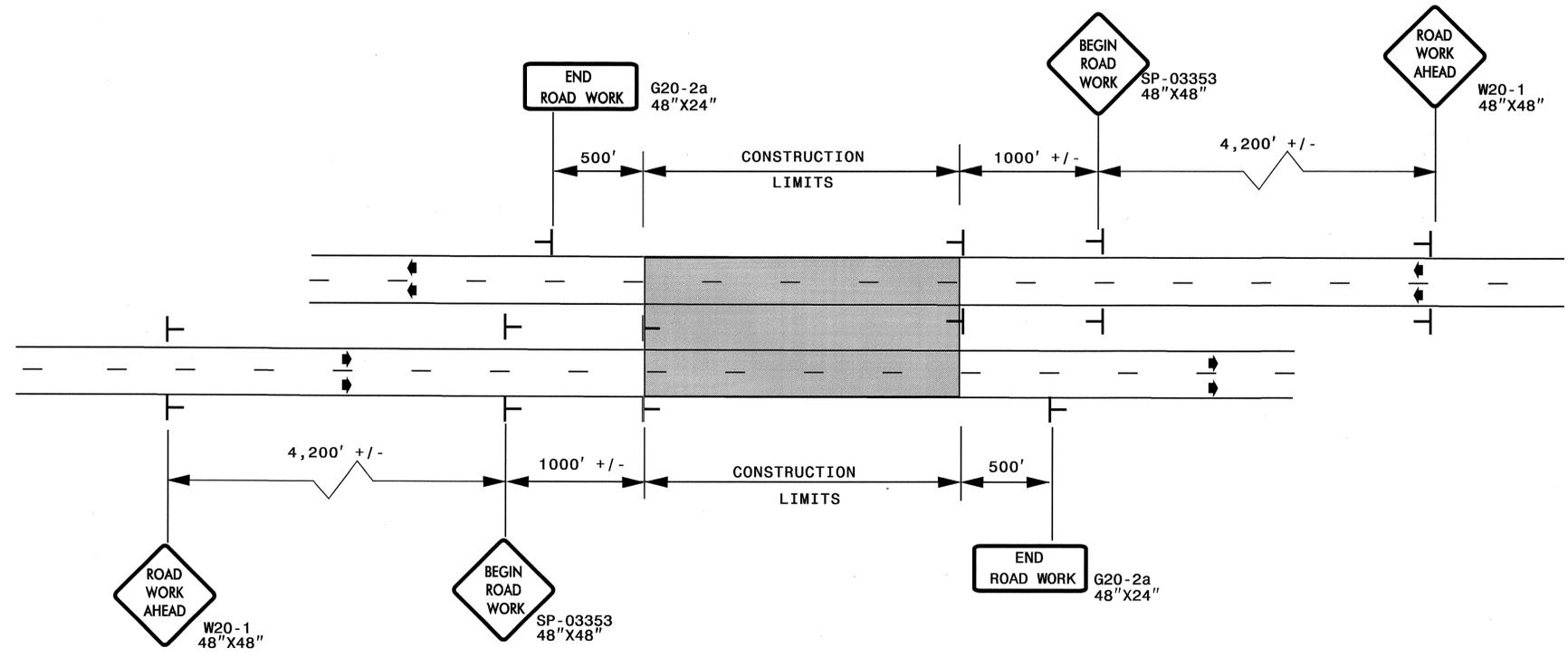
APPROVED: _____	DATE: _____						
	<p>DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCE WORK ZONE WARNING SIGNS</p>						
	<p>SCALE: NONE</p>						
	<p>REVISIONS</p> <table border="1"> <tr> <td>7-98</td> <td>10/01</td> </tr> <tr> <td>10-98</td> <td>03/04</td> </tr> <tr> <td>01/01</td> <td>11/04</td> </tr> </table>	7-98	10/01	10-98	03/04	01/01	11/04
	7-98	10/01					
10-98	03/04						
01/01	11/04						
<p>DESIGN BY: _____</p> <p>REVIEWED BY: _____</p>							

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 scottis AT WZ1231457

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

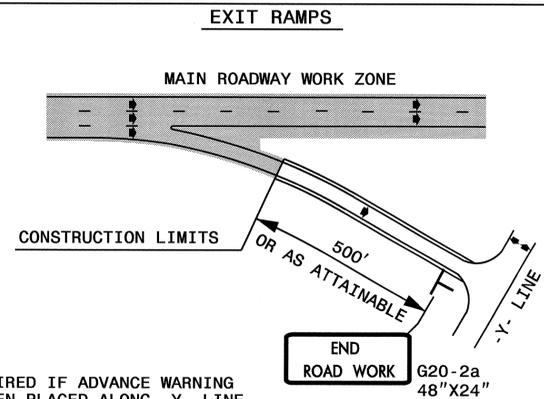
PROJ. REFERENCE NO.	SHEET NO.
R-0061C	TCP-10

DETAIL A



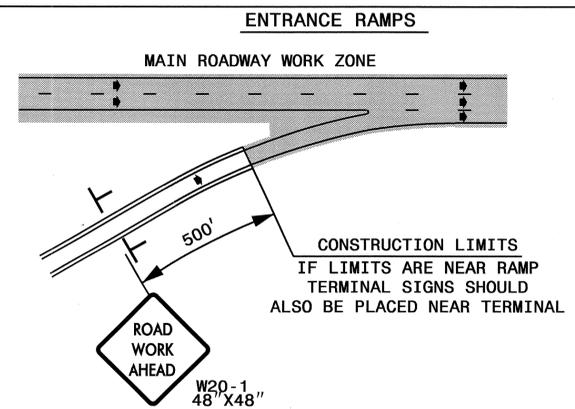
LEGEND	
┆	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW

DETAIL B

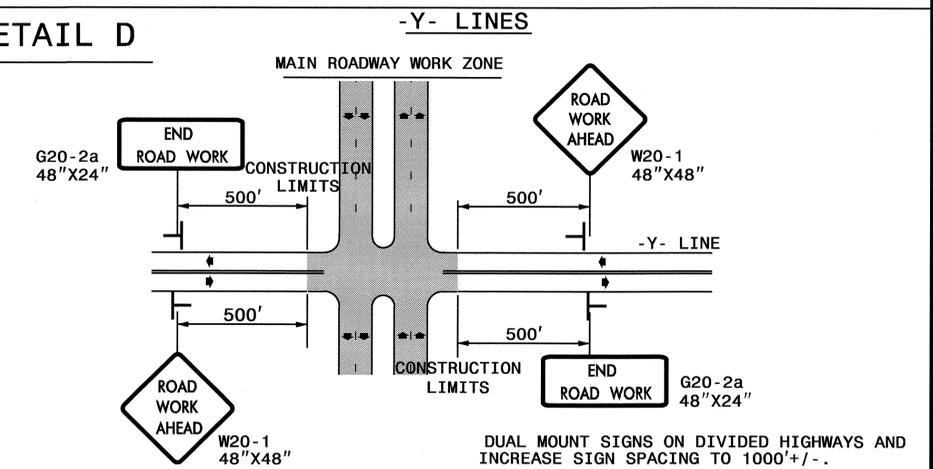


NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

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	REVISIONS	
	DATE: 8/03	03/04	
	DWG. BY: JI		
	DESIGN BY: JI		
	REVIEWED BY: _____		

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SP 03353

<p>SIGN NUMBER: SP-03353 BACKG COLOR: Fluorescent Orange TYPE: A COPY COLOR: Black</p> <p>QUANTITY: 1</p> <p>SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0.59" WIDTH: 0.75" RADII: 1.38"</p> <p>NO. Z BARS: N/A MAT'L: LENGTH: N/A</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	SYMBOL	X	Y	WID	HT																																														<p style="text-align: center;">DESIGNER: CHECKED BY: CHECKED PROJECT ID: ALL PROJECTS DIV: DIV STD #: W20-1 DATE: Aug 20, 2003</p> <div style="text-align: center;"> </div>
SYMBOL	X	Y	WID	HT																																																

- USE NOTES: 2, 4
1. Legend and border shall be direct applied Type VII reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type VII reflective sheeting.
 5. Background shall be Type I reflective sheeting.
 6. Center arrow(s) vertically on sign.
 7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size Text Length	
	B	E	G	I	N							
	22.4	5.3	4.6	5.4	2.5	3.8	22.4					C7 21.6
		R	O	A	D							C7 19.6
	23.4	5	5.2	5.6	3.8	23.4						C7 21.2
		W	O	R	K							
	22.6	6.4	5.6	5.2	4	22.6						

Spacing Factor is 1 unless specified otherwise

GENERAL NOTES FOR THE "BEGIN ROAD WORK" SIGN

- SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
- WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL A ON SHEET TCP-10.

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS	
	SCALE: NONE		REVISIONS
	DATE:		
	DWG. BY:		
	DESIGN BY:		
	REVIEWED BY:		CADD FILE