

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4015	TCP-1

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

B-4015

**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
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

**INDEX OF SHEETS**

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TCP-2	PROJECT NOTES
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TCP-5	PHASE II
TCP-6	PHASE III
TCP-7	ADVANCE WORK ZONE WARNING SIGNS

**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

**PAVEMENT MARKING SCHEDULE**

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY	TOTAL
INTERMEDIATE MARKINGS PAINT (4")			
PA	WHITE EDGELINE (2X)	3100 LF	8300 LF
PI	YELLOW DOUBLE CENTER (2X)	5200 LF	
PAINT (24")			
P4	WHITE STOPBAR (2X)	34 LF	34 LF
FINAL MARKINGS PAINT (4")			
PA	WHITE EDGELINE (2X)	2400 LF	4800 LF
PI	YELLOW DOUBLE CENTER (2X)	2400 LF	

**N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION  
LIST OF CONTACTS**

<u>STUART BOURNE, P.E.</u>	TRAFFIC CONTROL ENGINEER
<u>JOSEPH ISHAK, P.E.</u>	TRAFFIC CONTROL PROJECT ENGINEER
<u>HABIB LAWANDOS</u>	TRAFFIC CONTROL PROJECT DESIGN ENGINEER
<u>J.L. FUTRELL</u>	TRAFFIC CONTROL DESIGN ENGINEER

*[Signature]* APPROVED:  
8-2-07 DATE:



SEAL

**PLAN PREPARED FOR NCDOT BY:**



<u>B.A. MAY, P.E.</u>	PROJECT ENGINEER
<u>C.L. MULLEN</u>	DESIGN ENGINEER
_____	DESIGN TECHNICIAN

TIP PROJECT:

# PROJECT NOTES

## GENERAL 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 UNDESIRED 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.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.
- D) 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.
- E) 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.
- F) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- G) 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.
- H) 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

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

### SIGNING

- J) 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.
- K) PROVIDE PERMANENT SIGNING.
- L) PROVIDE DETOUR SIGNING WITHIN THE PROJECT LIMITS.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

- N) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS 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.

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
-L- SR 1362	PAINT	N/A
- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:  

ROAD NAME	MARKING	MARKER
-L- SR 1362	PAINT	N/A
- R) 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.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- U) PLACE AT LEAST TWO APPLICATIONS OF PAINT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

### SIGNALS

- V) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

### MISCELLANEOUS

- W) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

## LOCAL NOTES

- 1) PROTECT THE APPROACH ENDS OF TEMPORARY OR PERMANENT GUARDRAIL AT ALL TIMES DURING INSTALLATION AND/OR REMOVAL BY EITHER A TRUCK MOUNTED ATTENUATOR (TMIA) OR A TEMPORARY CRASH CUSHION.

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 559 Jones Franklin Rd. Suite 164 Raleigh, N.C. 27606 Bus: 919 851 8077 Fax: 919 851 8107	APPROVED: <i>Bob A. May</i> DATE: 8-2-07	<b>PROJECT NOTES</b>									
	SEAL 	SCALE: NONE DATE: 607 DWG. BY: ABP DESIGN BY: CLM REVIEWED BY: BAM		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>							

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**PHASE I**

- STEP 1. INSTALL ADVANCE WORK ZONE WARNING SIGNS ON SR 1362 (BIG HORSE CREEK RD.) PRIOR TO CONSTRUCTION (SEE TCP-7).
- STEP 2. USING RSD 1101.02, 1 OF 9, CONSTRUCT TEMPORARY DETOUR BRIDGE AND APPROACHES UP TO BUT NOT INCLUDING THE FINAL LAYER THROUGH THE FOLLOWING STATIONS (SEE TCP-4):
- DETOUR- STA. 10+67+/- TO STA. 15+31+/-
- AT THE END OF EACH WORKDAY, RETURN TRAFFIC TO THE EXISTING PATTERN. PLACE TYPE III BARRICADES TO CLOSE OFF TEMPORARY -DETOUR- UNTIL THE PHASE II TRAFFIC SHIFT.
- CONSTRUCT PROPOSED DRIVE RELOCATION AS SHOWN IN THE CONSTRUCTION PLANS (SEE TCP-4).
- STEP 3. INSTALL AND COVER TEMPORARY SIGNALS AND TEMPORARY SIGNING FOR THE PHASE II TRAFFIC PATTERN (SEE SIGNAL PLANS AND TCP-4).

**PHASE II**

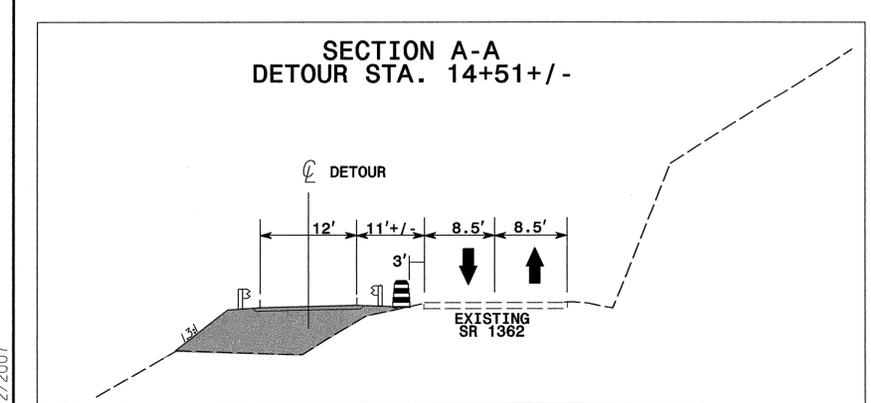
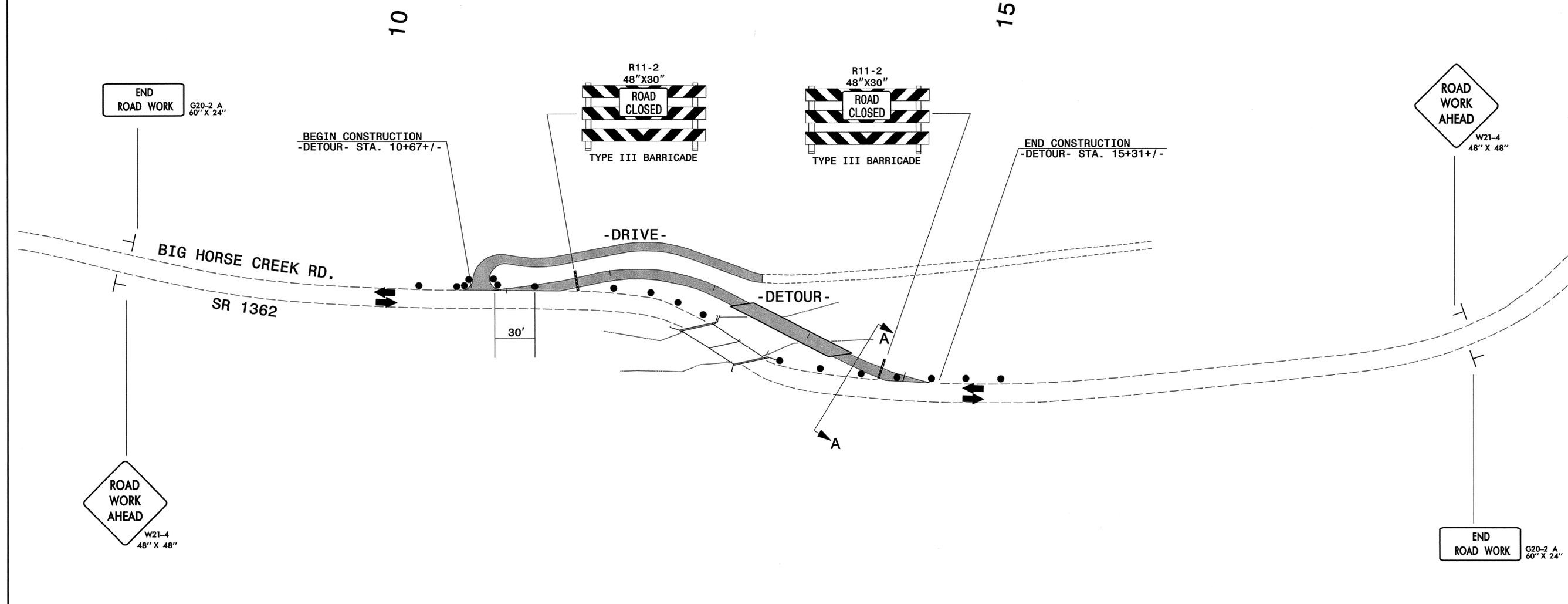
- STEP 1. USE RSD 1101.02, 1 OF 9, TO INSTALL TEMPORARY GUARDRAIL AS MUCH AS POSSIBLE ON TEMPORARY -DETOUR- FOR ONE-LANE TRAFFIC OPERATION (SEE LOCAL NOTE #1, TCP-2).
- STEP 2. USING RSD 1101.02, 1 OF 9, CONSTRUCT -DETOUR- TIE-INS UP THROUGH THE FINAL LAYER THROUGH THE FOLLOWING STATIONS:
- DETOUR- STA. 10+67+/- TO -L- STA. 15+31+/-
- ACTIVATE TEMPORARY SIGNAL AND UNCOVER TEMPORARY SIGNING (SEE SIGNAL PLANS AND TCP-5) AND OPEN SR 1362 (BIG HORSE CREEK ROAD) TO A ONE-LANE SIGNALIZED TRAFFIC PATTERN.
- PLACE -DETOUR- PAVEMENT MARKINGS AND INSTALL TYPE III BARRICADES TO CLOSE EXISTING SR 1362 TO TRAFFIC.
- STEP 3. COMPLETE TEMPORARY GUARDRAIL INSTALLATION FOR TEMPORARY -DETOUR- (SEE CONSTRUCTION PLANS).
- STEP 4. USE RSD 1101.02, 1 OF 9, TO CONSTRUCT PROPOSED -L- STRUCTURE AND ROADWAY UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE THROUGH THE FOLLOWING STATIONS (SEE TCP-5):
- L- STA. 11+50+/- TO -L- STA. 14+81+/-
- INSTALL PERMANENT RIGHT SIDE -L- GUARDRAIL (SEE CONSTRUCTION PLANS AND LOCAL NOTE #1, TCP-2).

**PHASE III**

- STEP 1. PLACE PAVEMENT MARKINGS AS MUCH AS POSSIBLE ON -L- FOR FINAL TRAFFIC PATTERN (SEE TCP-6).
- PERFORM THE FOLLOWING WORK OF STEPS 2 THRU 5 IN A CONTINUOUS MANNER:
- STEP 2. USING RSD 1101.02, 1 OF 9, WEDGE AND CONSTRUCT PROPOSED -L- NORTHBOUND LANE TIE-INS UP TO, BUT NOT INCLUDING, THE FINAL LAYER THROUGH THE FOLLOWING STATION LOCATIONS:
- L- STA. 10+00+/- TO -L- STA. 11+50+/-  
-L- STA. 14+81+/- TO -L- STA. 16+00+/-
- DEACTIVATE TEMPORARY SIGNALS AND COVER/REMOVE SIGNING FROM PHASE II TEMPORARY TRAFFIC PATTERN.
- STEP 3. USING RSD 1101.02, 1 OF 9, SHIFT -DETOUR- TRAFFIC ONTO THE -L- NORTHBOUND LANE IN A ONE-LANE, TWO-WAY PATTERN. PLACE TYPE III BARRICADES TO CLOSE OFF TEMPORARY -DETOUR-.
- STEP 4. USING RSD 1101.02, 1 OF 9, WEDGE AND CONSTRUCT PROPOSED -L- SOUTHBOUND LANE TIE-INS UP TO, BUT NOT INCLUDING, THE FINAL LAYER THROUGH THE FOLLOWING STATION LOCATIONS:
- L- STA. 10+00+/- TO -L- STA. 11+50+/-  
-L- STA. 14+81+/- TO -L- STA. 16+00+/-
- OPEN SR 1362 (BIG HORSE CREEK RD.) TO THE FINAL TRAFFIC PATTERN (SEE TCP-6).
- STEP 5. USING RSD 1101.02, 1 OF 9, COMPLETE PROPOSED -L- LEFT SIDE SHOULDER CONSTRUCTION AND PERMANENT GUARDRAIL INSTALLATION AT THE FOLLOWING STATION LOCATIONS (SEE LOCAL NOTE #1, TCP-2):
- L- STA. 10+00+/- TO -L- STA. 12+75+/-  
-L- STA. 13+60+/- TO -L- STA. 16+00+/-
- STEP 6. COMPLETE REMOVAL OF TEMPORARY -DETOUR- AND STRUCTURE.
- STEP 7. USING RSD 1101.02, 1 OF 9, PLACE FINAL LAYER OF SURFACE COURSE AND PAVEMENT MARKINGS ON SR 1362 (BIG HORSE CREEK ROAD).
- STEP 8. REMOVE ALL TRAFFIC CONTROL DEVICES FROM THE PROJECT.

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 <b>WETHERILL</b> <b>ENGINEERING</b>	559 Jones Franklin Rd. Suite 164 Raleigh, N.C. 27606 Bus: 919 851 8077 Fax: 919 851 8107	<i>Bob A. May</i> DATE: 8-2-07	PHASING								
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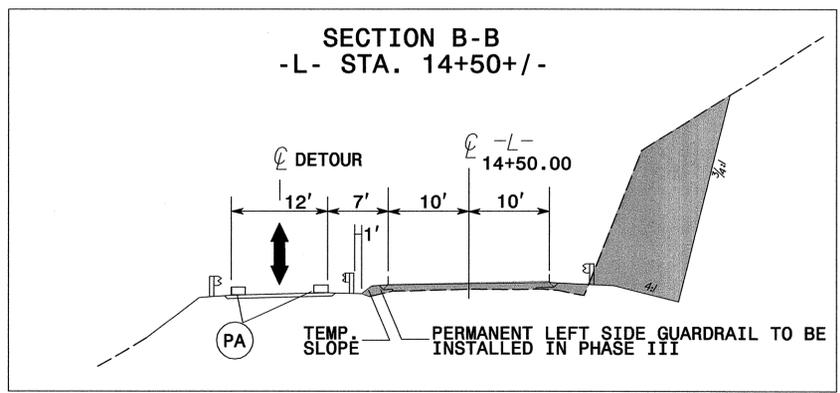
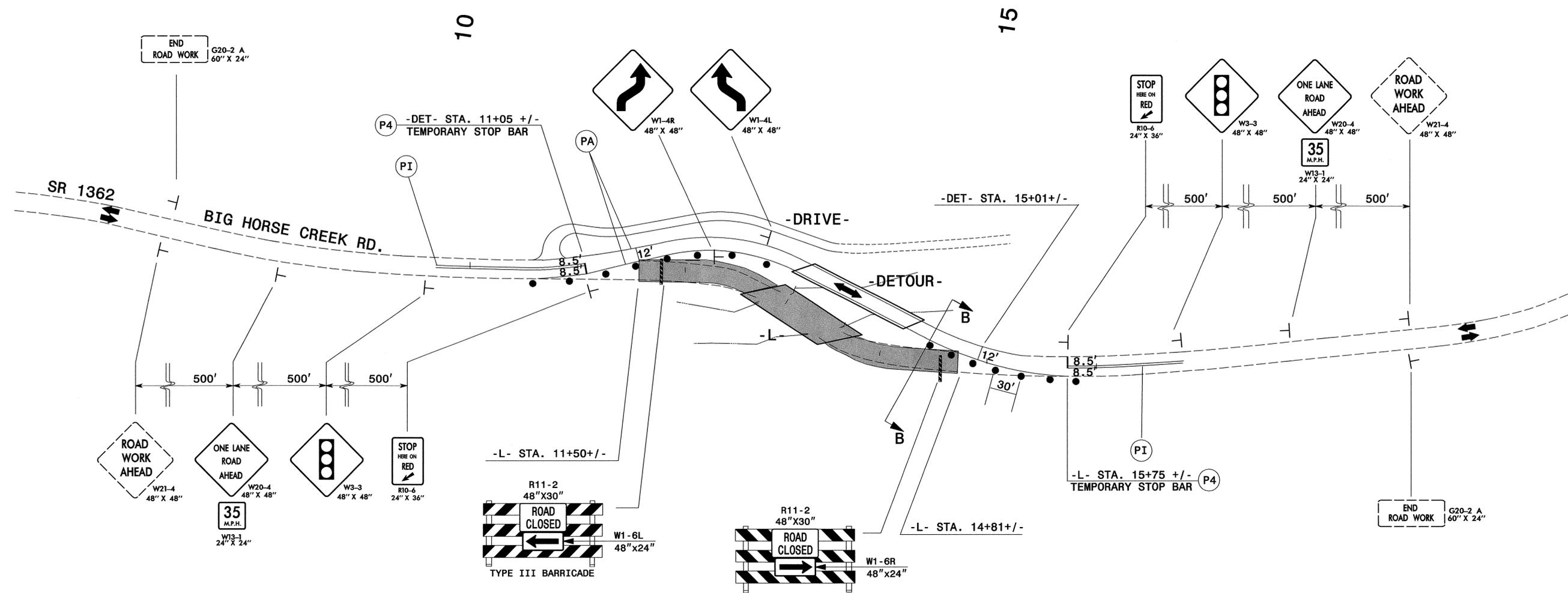
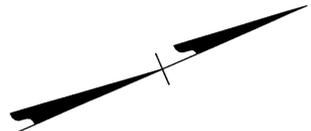
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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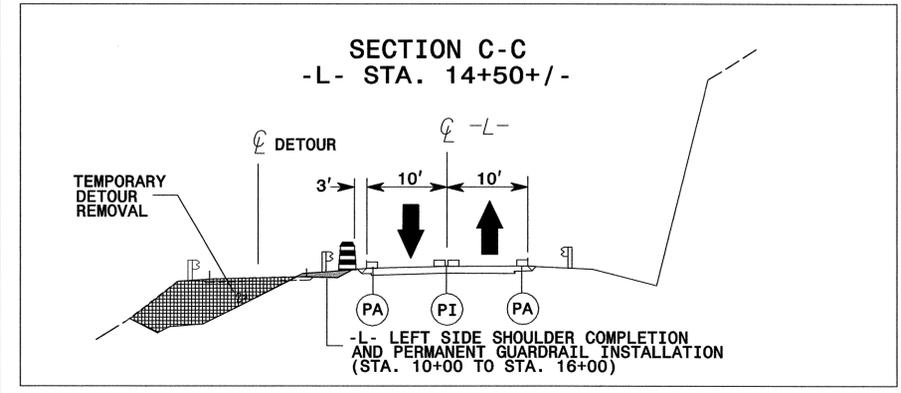
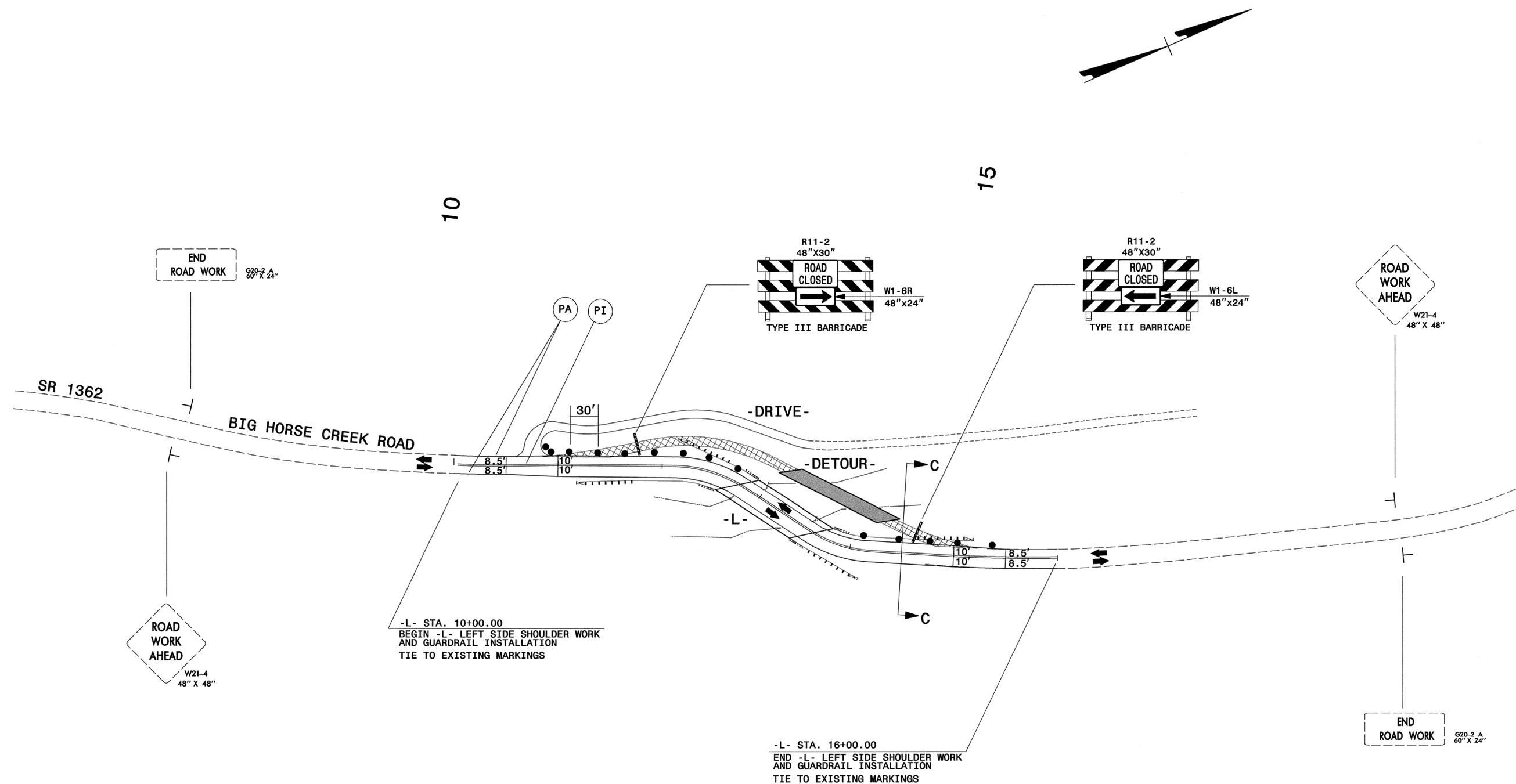

<b>PHASE I</b>	
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- SEE TCP-1 FOR PAVEMENT MARKING SCHEDULE
- SEE SIGNAL PLANS FOR TEMPORARY SIGNAL DESIGN
- DASHED SIGNING INDICATES PHASE I INSTALLATION

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- SEE TCP-1 FOR PAVEMENT MARKING SCHEDULE  
 - DASHED SIGNING INDICATES PHASE I INSTALLATIONS

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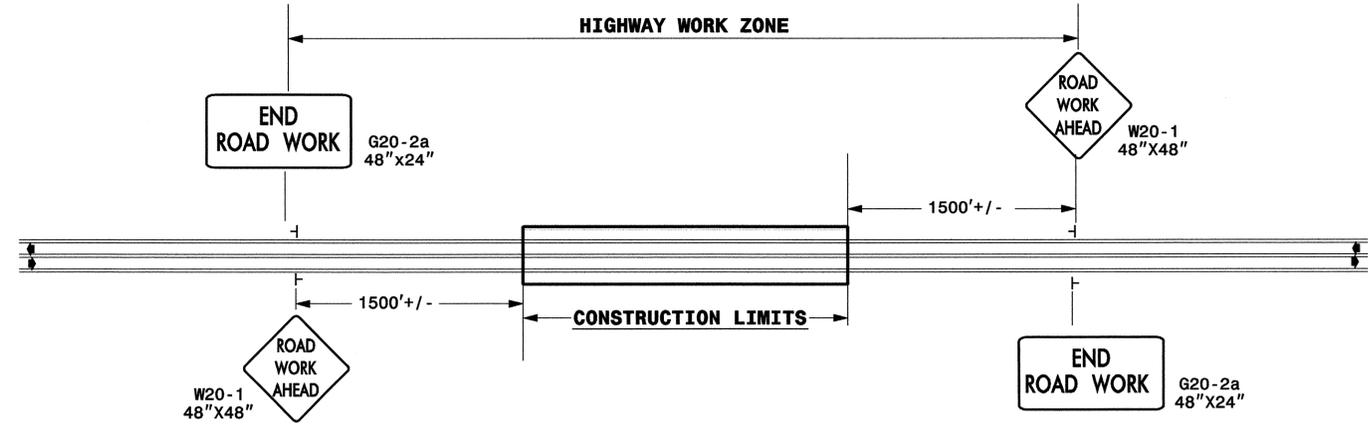
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**PHASE III**

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DESIGN BY: CLM		
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**TWO-WAY UNDIVIDED \*\* (L-LINES)**



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

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

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: *[Signature]* DATE: 8-2-07

SEAL



DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS  
 ADVANCED WORK ZONE WARNING SIGNS

SCALE: NONE		REVISIONS	
DATE: 607		7-98	10/01
DWG. BY: ABP		10-98	03/04
DESIGN BY: CLM		01/01	11/04
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