

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B - 4 2 6 1	TCP-1

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

B - 4261

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
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS AND GENERAL NOTES
TCP-2	DETOUR ROUTE & PHASING (BRIDGE #37)
TCP-3	DETOUR ROUTE & PHASING (CULVERT #39)
TCP-4	DETOUR 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
- CONE
- DRUM
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- WARNING FLAGS

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, OF 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 AS DIRECTED BY THE ENGINEER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

A) 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.

B) 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

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

SIGNING

D) STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.

- E) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- F) COVER OR REMOVE ALL DETOUR SIGNS WITH IN AND/OR OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- G) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

I) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS DIRECTED IN THE PAVEMENT MARKING PLAN.

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

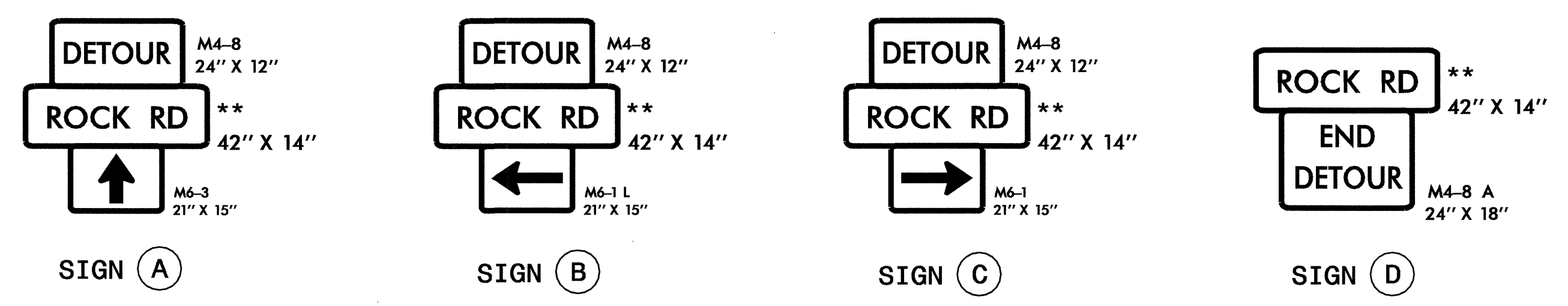
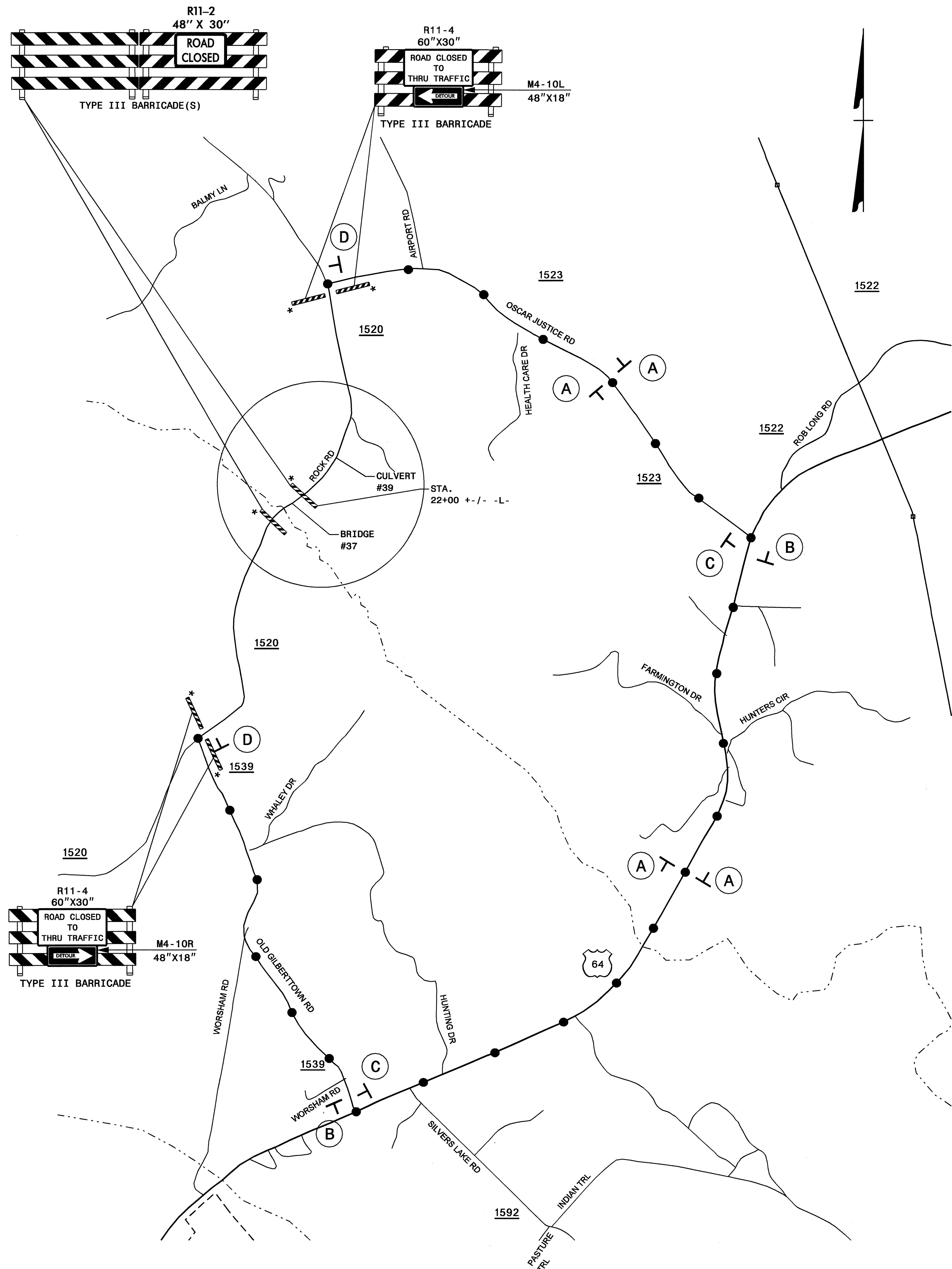
ROAD NAME	MARKING	MARKER
1. ROCK RD	PAINT	NONE

K) 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.

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

APPROVED: DATE:	PLAN PREPARED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION 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. GREEN TRAFFIC CONTROL DESIGN ENGINEER

TIP PROJECT:



- NOTES:
- ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - * SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9, FOR ADDITIONAL WORK ZONE SIGNS AND LOCATIONS.
 - ** SEE TCP-4 FOR SIGN DESIGN.

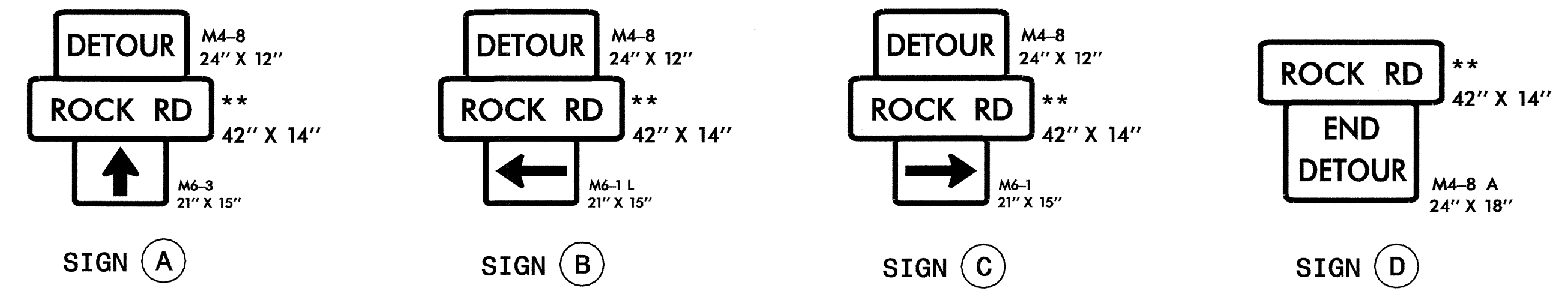
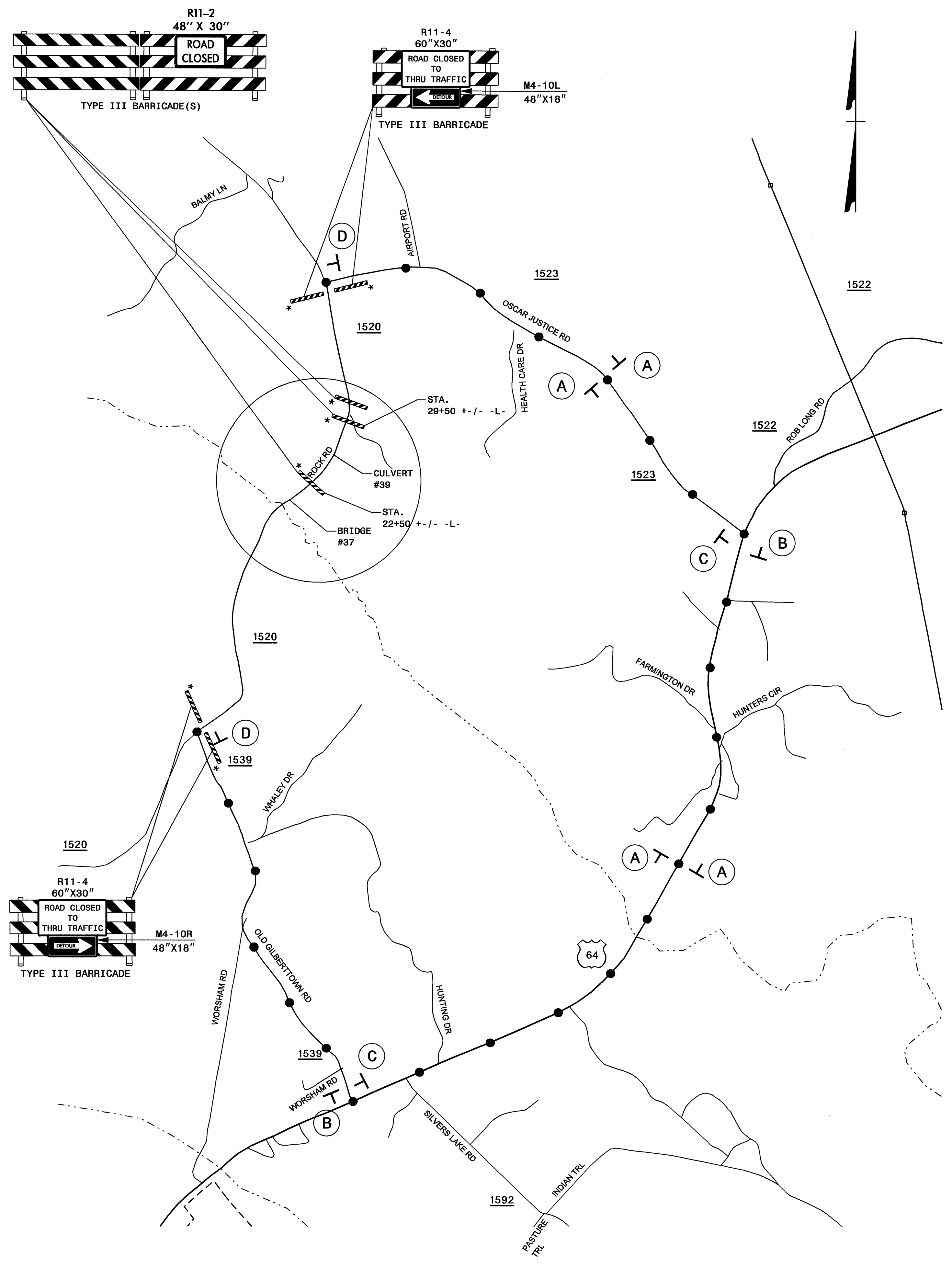
CONSTRUCTION OF BRIDGE #37

NOTE: CONTRACTOR SHALL CHOOSE EITHER STRUCTURE, BRIDGE #37 OR CULVERT #39, TO CONSTRUCT FIRST, HOWEVER, ONLY UPON COMPLETION OF THE FIRST STRUCTURE CAN HE START CONSTRUCTION ON THE SECOND.

- STEP 1: - INSTALL OFF-SITE DETOUR ROUTE SIGN ASSEMBLIES FOR THE CLOSING OF ROCK ROAD (-L-/SR 1520).
- USING ROADWAY STANDARD DRAWING No. 1101.03, SHEET 1 OF 9, CLOSE ROCK ROAD (-L-/SR 1520) TO THRU TRAFFIC FROM STATION 13+03 +/- -L- TO STATION 22+00 +/- -L-.
- STEP 2: - REMOVE THE EXISTING STRUCTURE AND CONSTRUCT THE PROPOSED STRUCTURE AND ROADWAY FROM STATION 13+03 +/- -L- TO STATION 22+00 +/- -L-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT). (SEE CONSTRUCTION PLANS).
- NOTE: PROCEED TO TCP-3 IF CULVERT #39 HAS NOT BEEN CONSTRUCTED. IF CULVERT #39 HAS BEEN CONSTRUCTED, PROCEED TO STEP 3.
- STEP 3: - UPON COMPLETION OF BOTH STRUCTURES AND ROADWAY, USING ROADWAY STANDARD DRAWING No. 1101.02, SHEET 1 OF 9, PAVE THE FINAL LAYER OF SURFACE COURSE FROM STATION 13+03 +/- -L- TO STATION 32+30 +/- -L- AND PLACE FINAL PAVEMENT MARKINGS. (SEE CONSTRUCTION PLANS AND PAVEMENT MARKING PLANS).
- STEP 4: - REMOVE ALL TRAFFIC CONTROL DEVICES, SIGNING AND DETOUR ROUTE SIGNING.
- OPEN TO FINAL TRAFFIC PATTERN.

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APPROVED: _____ DATE: _____	BRIDGE #37 DETOUR ROUTE & PHASING	
	SCALE: NONE	
	DATE: 10/08	
	DESIGN BY: SNG	
	REVIEWED BY: JWG	
	REVISIONS	



- NOTES:
- ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - * SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9, FOR ADDITIONAL WORK ZONE SIGNS AND LOCATIONS.
 - ** SEE TCP-4 FOR SIGN DESIGN.

CONSTRUCTION OF CULVERT #39

NOTE: CONTRACTOR SHALL CHOOSE EITHER STRUCTURE, BRIDGE #37 OR CULVERT #39, TO CONSTRUCT FIRST, HOWEVER, ONLY UPON COMPLETION OF THE FIRST STRUCTURE CAN HE START CONSTRUCTION ON THE SECOND.

- STEP 1: - INSTALL OFF-SITE DETOUR ROUTE SIGN ASSEMBLIES FOR THE CLOSING OF ROCK ROAD (-L-/SR 1520).
- USING ROADWAY STANDARD DRAWING No. 1101.03, SHEET 1 OF 9, CLOSE ROCK ROAD (-L-/SR 1520) TO THRU TRAFFIC FROM STATION 22+50 +/- -L- TO STATION 32+30 +/- -L-.
- NOTE: INSTALL TYPE III BARRICADES AT STATION 29+50 +/- -L- AND UTILIZE DRUMS TO MAINTAIN ACCESS TO DRIVEWAY.
- STEP 2: - REMOVE THE EXISTING STRUCTURE AND CONSTRUCT THE PROPOSED STRUCTURE AND ROADWAY FROM STATION 27+26 +/- -L- TO STATION 32+30 +/- -L-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT). (SEE CONSTRUCTION PLANS).
- NOTE: UTILIZE DRUMS TO MAINTAIN ACCESS TO DRIVEWAY RIGHT OF STATION 29+50 +/- -L- DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
- NOTE: PROCEED TO TCP-2 IF BRIDGE #37 HAS NOT BEEN CONSTRUCTED. IF BRIDGE #37 HAS BEEN CONSTRUCTED, PROCEED TO STEP 3.
- STEP 3: - UPON COMPLETION OF BOTH STRUCTURES AND ROADWAY, USING ROADWAY STANDARD DRAWING No. 1101.02, SHEET 1 OF 9, PAVE THE FINAL LAYER OF SURFACE COURSE FROM STATION 13+03 +/- -L- TO STATION 32+30 +/- -L- AND PLACE FINAL PAVEMENT MARKINGS. (SEE CONSTRUCTION PLANS AND PAVEMENT MARKING PLANS).
- STEP 4: - REMOVE ALL TRAFFIC CONTROL DEVICES, SIGNING AND DETOUR ROUTE SIGNING.
- OPEN TO FINAL TRAFFIC PATTERN.

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APPROVED: _____ DATE: _____	CULVERT #39 DETOUR ROUTE & PHASING	
	SCALE: NONE	
	DATE: 10/08	
	DWG. BY: SNG	
	DESIGN BY: SNG	
REVIEWED BY: JWG	REVISIONS	

