

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4299	TCP-1

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

B-4299

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - 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
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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 - TYPE I, II, III AND PERMANENT
1150.01	FLAGGERS
1180.01	SKINNY-DRUM

DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION

1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
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, INDEX OF SHEETS, AND LEGEND
TCP - 2	PROJECT NOTES
TCP - 3	PHASE I
TCP - 4-5	PHASE II
TCP - 6	SPECIAL SIGN DESIGN
PM - 1	PAVEMENT MARKING SCHEDULE
PM - 2-3	PAVEMENT MARKING DETAIL

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
 - 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

SYMBOL	DESCRIPTION	PAVEMENT MARKING SCHEDULE		
		TEMPORARY PAVEMENT MARKINGS	PAY ITEM QUANTITY BREAKDOWN	TOTAL QUANTITY
P4	WHITE STOPBAR (1X)	PAINT(24")	108 LF	108 LF
		TOTAL		
PA	WHITE EDGELINE (1X)	PAINT(4")	1014 LF	1845 LF
		PD 2 FT. WHITE MINISKIP (1X)	31 LF	
		PI YELLOW DOUBLE CENTER (1X)	800 LF	
TOTAL				
PR	WHITE GORELINE (1X)	PAINT(8")	264 LF	394 LF
		PS WHITE DIAGONAL (1X)	130 LF	
		TOTAL		
QB	RIGHT TURN ARROW (1X)	PAINTMARKING SYMBOLS	2 EA	4 EA
		QD COMBO.STRAIGHT/LEFT (1X)	2 EA	
		TOTAL		
MH	YELLOW & YELLOW	MARKERS	3 EA	12 EA
		MI CRYSTAL & RED	9 EA	
		TOTAL		

APPLY ONE APPLICATION OF PAINT AT 15 MILS WET. IF THE TEMPORARY TRAFFIC PATTERN WILL LAST LONGER THAN SIX MONTHS, APPLY A SECOND APPLICATION OF PAINT SIX MONTHS AFTER THE INITIAL APPLICATION. PAY ITEM QUANTITY BREAKDOWN INCLUDES TWO APPLICATIONS.

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
DATE: 4/19/07	
SEAL:	STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	JESSICA KUSE, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	DAVID BISSETTE, P.E. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

TIP PROJECT:

PROJECT NOTES

PROJ. REFERENCE NO. B-4299	SHEET NO. TCP-2
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GENERAL NOTES

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

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
SR 1006 & SR 2782	6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. MONDAY THRU FRIDAY
US 401	6:00 A.M. TO 10:00 P.M. MONDAY THRU SUNDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

- ROAD NAME
1. US 401
 2. SR 2782 (LEGEND ROAD)
 3. SR 1006 (OLD STAGE ROAD)

HOLIDAY

1. FOR ANY EVENT THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 10:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 10:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 10:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 10:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 10:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 10:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 10:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 10:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 10:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.

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.

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.

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, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.

G) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

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 A 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.

I) DO NOT EXCEED A DIFFERENCE OF 2.0 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING *UNEVEN LANES* SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY 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 100 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

L) PROVIDE FOR PERMANENT SIGNING.

M) PROVIDE FOR DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.

N) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

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

TRAFFIC CONTROL DEVICES

P) 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.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMO	PERMANENT RAISED

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

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

T) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

TEMPORARY / FINAL SIGNALS

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


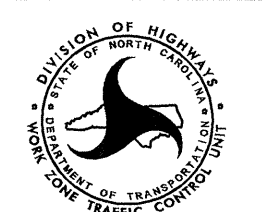
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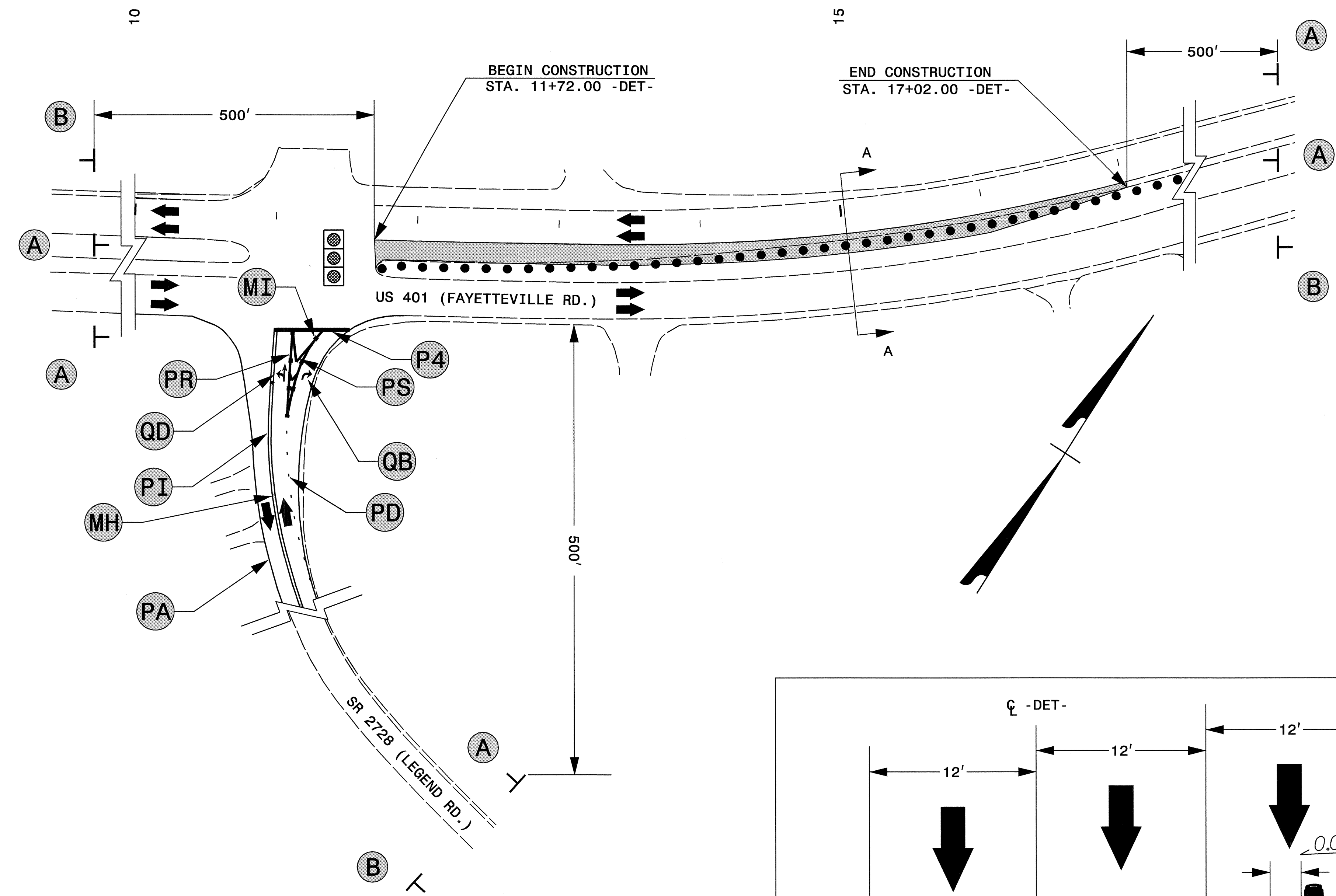
V) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS.

LOCAL NOTES

1. MAINTAIN DRIVEWAY ACCESS WITHIN PROJECT LIMITS USING INCIDENTAL STONE.
2. MAINTAIN TRAFFIC WITH POLICE ON US 401 DURING SIGNAL TIMING AND /OR GRID CHANGES AT THE DIRECTION OF THE ENGINEER.
3. INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE THE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.

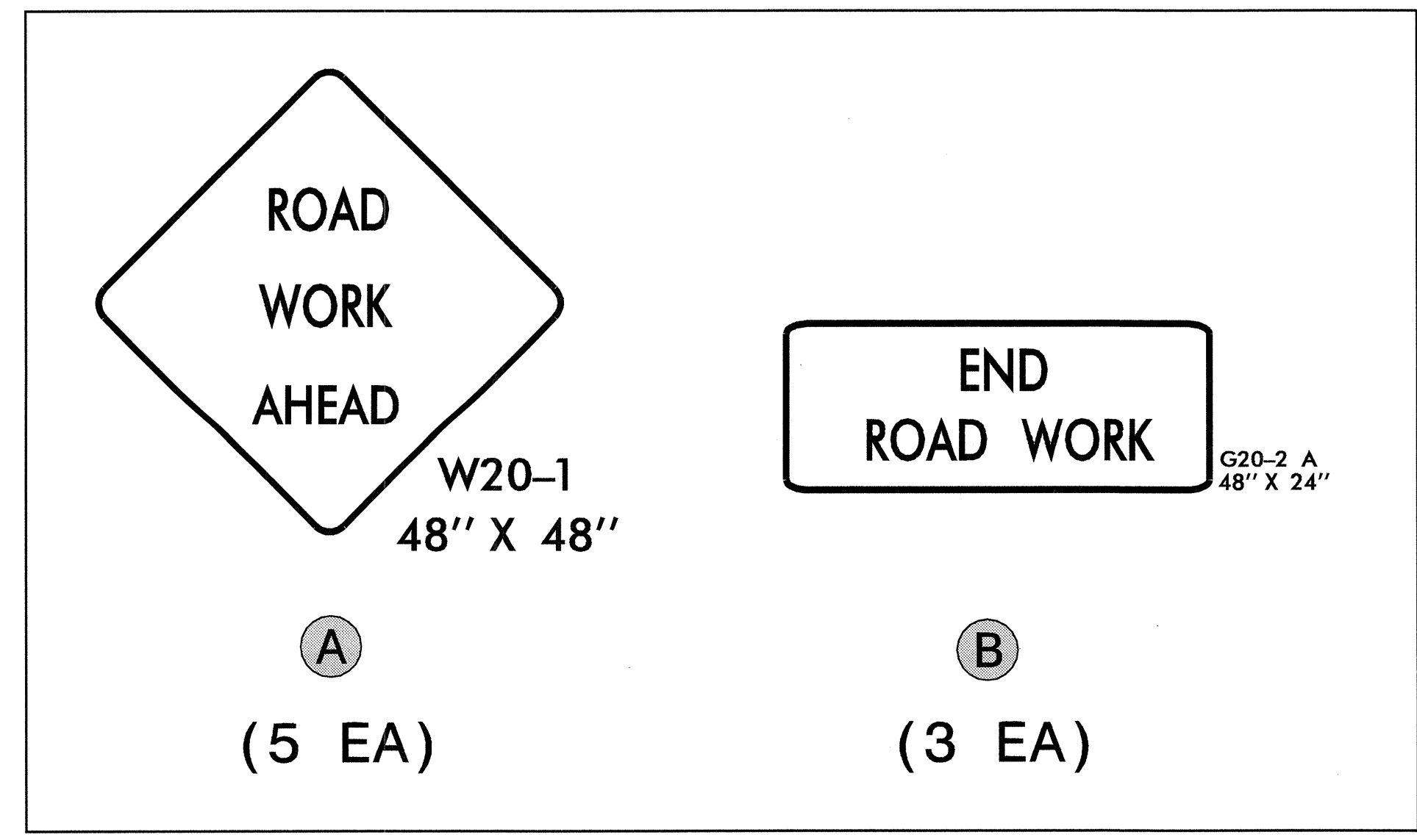
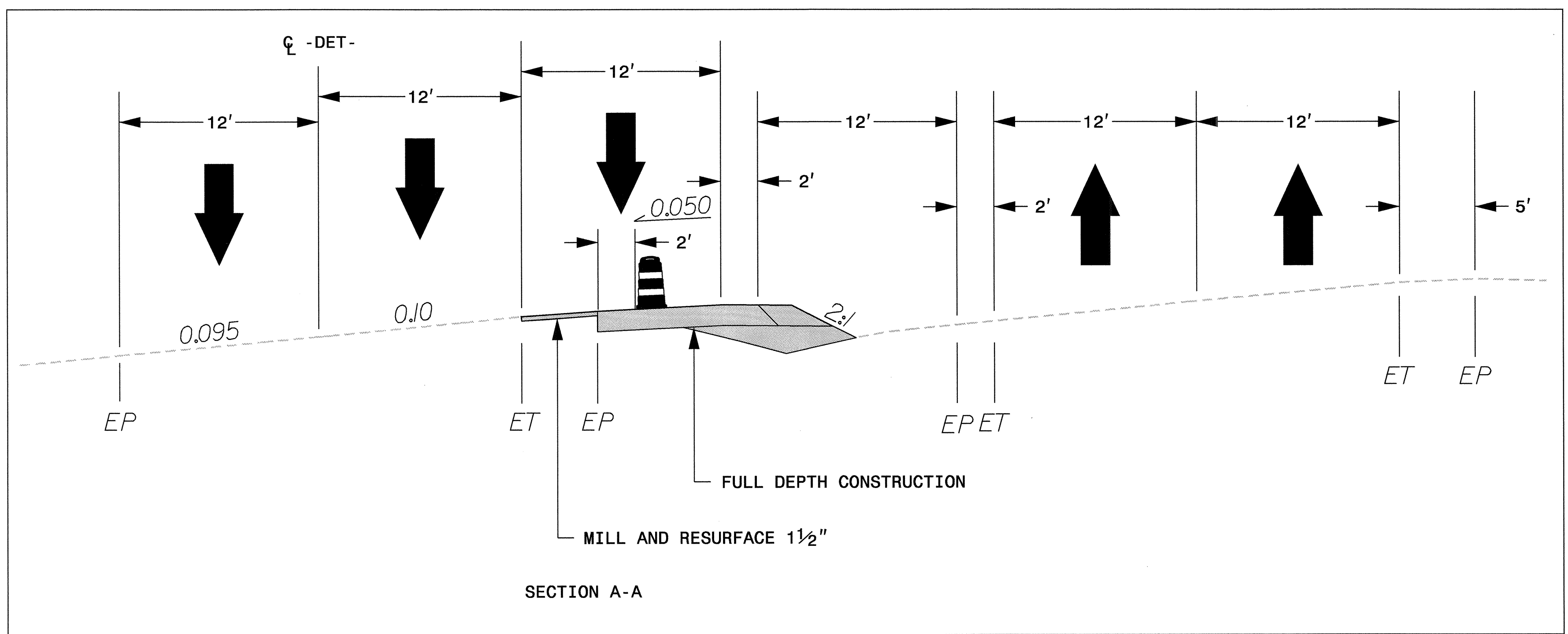
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PHASE I

- STEP 1 WORKING IN A CONTINUOUS MANNER AND USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 9 CONSTRUCT THE FOLLOWING:
 -INSTALL ADVANCE WARNING SIGNS ON US 401 AND LEGEND DRIVE.
 -INSTALL PROPOSED DRAINAGE 15+45+/- TO 16+27+/- -DET-.
 -CONSTRUCT PROPOSED WIDENING OF LEFT TURN LANE FROM 11+72+/- TO 17+02+/- -DET- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- STEP 2 WORKING IN A CONTINUOUS MANNER AND USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 AND 3 OF 9 CONSTRUCT THE FOLLOWING: (SEE GENERAL NOTE I)
 -MILL 1 1/2 INCHES OFF OF THE EXISTING LEFT TURN LANE.
 -PLACE FINAL LAYER OF SURFACE COURSE FROM 11+72+/- TO 17+02+/- -DET-.
 -USING PAVEMENT MARKING PLAN SHEET PM-3, APPLY PERMANENT PAVEMENT MARKINGS, USING THERMOPLASTIC AND RAISED REFLECTIVE PAVEMENT MARKERS, ON LEFT TURN LANE LEFT OF -DET- FROM 11+72+/- TO 17+02+/- AND ON GAS STATION ENTRANCE RIGHT OF -DET- FROM 11+00+/- TO 11+50+/- .
 -APPLY TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TCP-3, USING PAINT AND TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS, ON SR 2728 (LEGEND ROAD). SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE.
- STEP 3 REMOVE ADVANCE WARNING SIGNS.



APPROVED: <i>Jessica D. Ruse</i> DATE: 1/19/07	PHASE I - DETOUR	
SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JESSICA D. RUSE 027811		
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PHASE II

STEP 1 INSTALL AND BEGIN RUNNING CHANGEABLE MESSAGE SIGNS AS SHOWN ON PLAN FOR SB US 401 TWO WEEKS PRIOR TO CLOSING SR 1006. USE MESSAGE GROUP 1 ON BOTH BOARDS.

COMPLETE THE WORK REQUIRED IN PHASE II STEP 2 BETWEEN THE HOURS OF 10:00 PM ONE DAY AND 6:00 AM THE FOLLOWING DAY. (SEE ICT 3)

STEP 2 -CHANGE THE SIGNAL TIMING AS SHOWN IN THE SIGNAL PLANS AT THE INTERSECTION OF US 401 AND SR 1006 AND AT THE INTERSECTION OF US 401 AND SR 2782. (SEE LOCAL NOTE NO. 2)
 -USING TCP-4 AND 5 AND ROADWAY STANDARD DRAWING 1101.03, SHEETS 1 AND 2 OF 9, INSTALL DETOUR SIGNS AND ROAD CLOSED SIGNS, CLOSE SR 1006 TO THRU TRAFFIC USING TYPE III BARRICADES AND SWITCH TRAFFIC TO OFFSITE DETOUR. (SEE LOCAL NOTE NO. 3)
 -USE MESSAGE GROUP 2 ON CMS #1 AND MESSAGE GROUP 3 ON CMS #2. RUN THEM FOR TWO WEEKS AFTER CLOSING SR 1006 AND THEN REMOVE THEM.

STEP 3 CONSTRUCT THE FOLLOWING WITHIN THE ROAD CLOSURE: (SEE LOCAL NOTE NO. 1)
 -REMOVE THE EXISTING STRUCTURE.
 -CONSTRUCT THE PROPOSED STRUCTURE.
 -CONSTRUCT THE PROPOSED ROADWAY SECTION -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE.

STEP 4 USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AS NEEDED CONSTRUCT THE FOLLOWING: (SEE LOCAL NOTE NO. 1)
 -PLACE THE FINAL LAYER OF SURFACE COURSE ON -L- FROM STA. 18+45+/- TO STA. 22+35 +/- AND FROM STA. 23+05+/- TO STA. 25+25+/-.
 -PLACE THE FINAL PAVEMENT MARKINGS ON -L- FROM STA. 18+45+/- TO STA. 25+25+/-.

COMPLETE THE WORK REQUIRED IN PHASE II STEP 5 BETWEEN THE HOURS OF 10:00 PM ONE DAY AND 6:00 AM THE FOLLOWING DAY. (SEE ICT 4)

STEP 5 -REMOVE ALL BARRICADES AND OPEN ROAD TO THROUGH TRAFFIC.
 -REMOVE ALL ROAD CLOSURE SIGNING AND DETOUR SIGNING. (SEE LOCAL NOTE NO. 3)
 -PLACE FINAL PAVEMENT MARKINGS ON SR 2728 (LEGEND ROAD).
 -CHANGE THE SIGNAL TIMING AS SHOWN IN THE SIGNAL PLANS AT THE INTERSECTION OF US 401 AND SR 1006 AND AT THE INTERSECTION OF US 401 AND SR 2782. (SEE LOCAL NOTE NO. 2)
 -REMOVE TEMPORARY PAVEMENT MARKINGS FROM SR 2728 (LEGEND ROAD) AND RESTORE ORIGINAL MARKINGS.

MESSAGE GROUPS

MESSAGE NO. 1	MESSAGE NO. 2
OLD STAGE ROAD CLOSED	BEGINNING WEEK OF 00/00/00
CHANGEABLE MESSAGE SIGN	

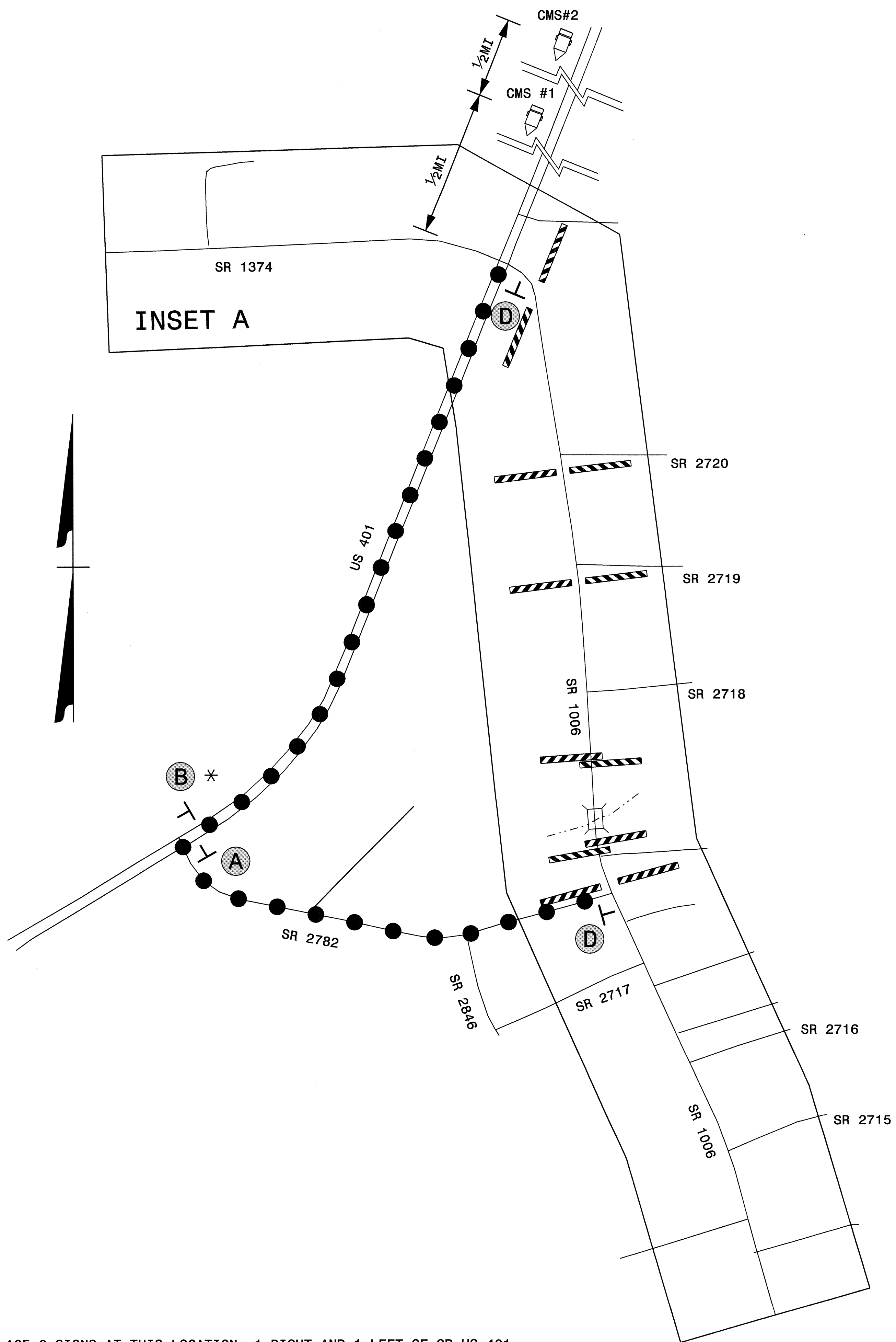
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MESSAGE NO. 1	MESSAGE NO. 2
OLD STAGE ROAD CLOSED	NO THRU TRAFFIC NEXT LEFT
CHANGEABLE MESSAGE SIGN	

②


MESSAGE NO. 1	MESSAGE NO. 2
OLD STAGE ROAD CLOSED	USE LEGEND RD DETOUR
CHANGEABLE MESSAGE SIGN	

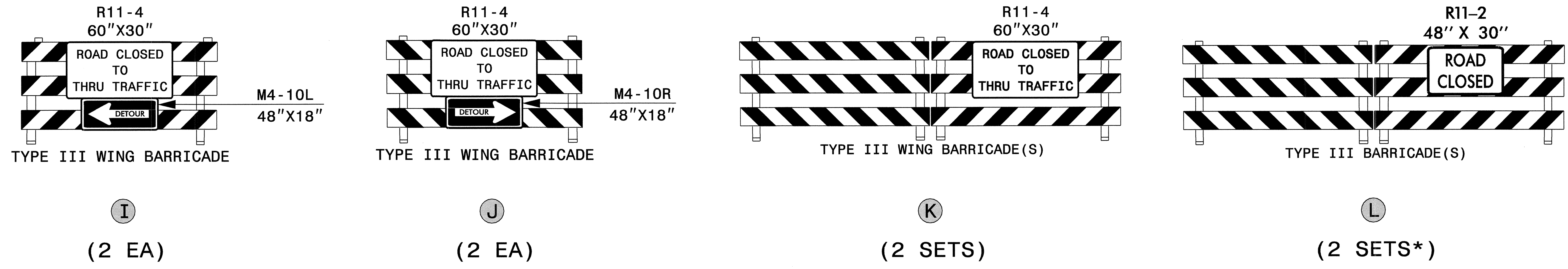
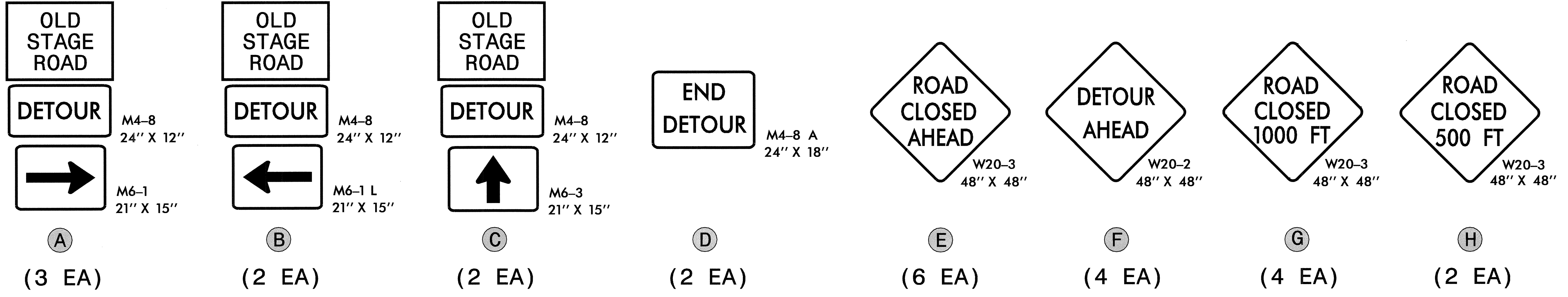
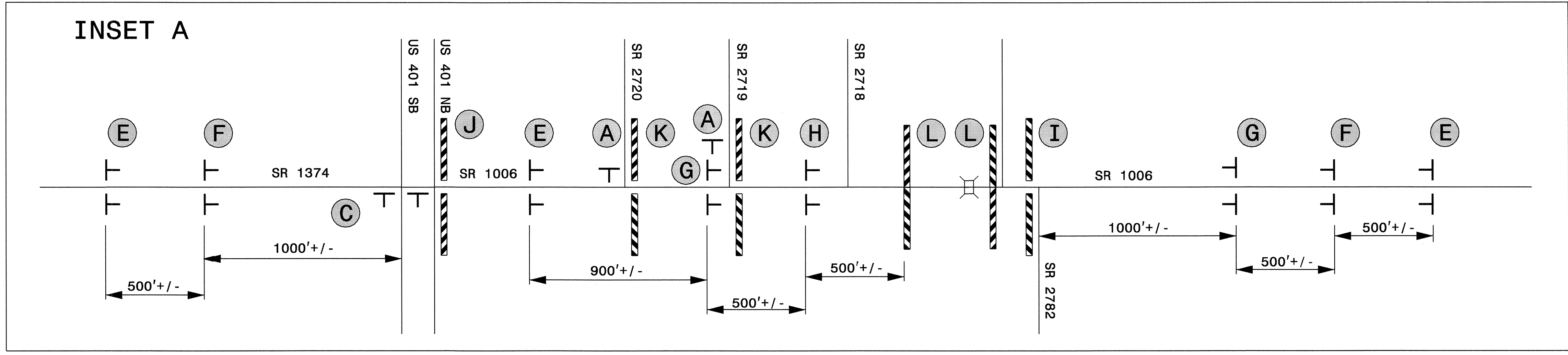
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* PLACE 2 SIGNS AT THIS LOCATION. 1 RIGHT AND 1 LEFT OF SB US 401.

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*BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED POSITION.

APPROVED: <i>Jessica D. Yuse</i> DATE: 1/19/07	PHASE II OFFSITE DETOUR							
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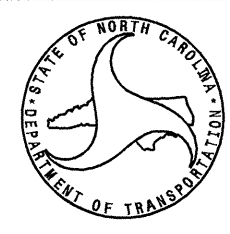
Sign Number:
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Quantity: 1

Design By: DME
Project ID: B-4299

Check By:
DIV: 5

STD #: N/A
Date: Jun 09, 2006

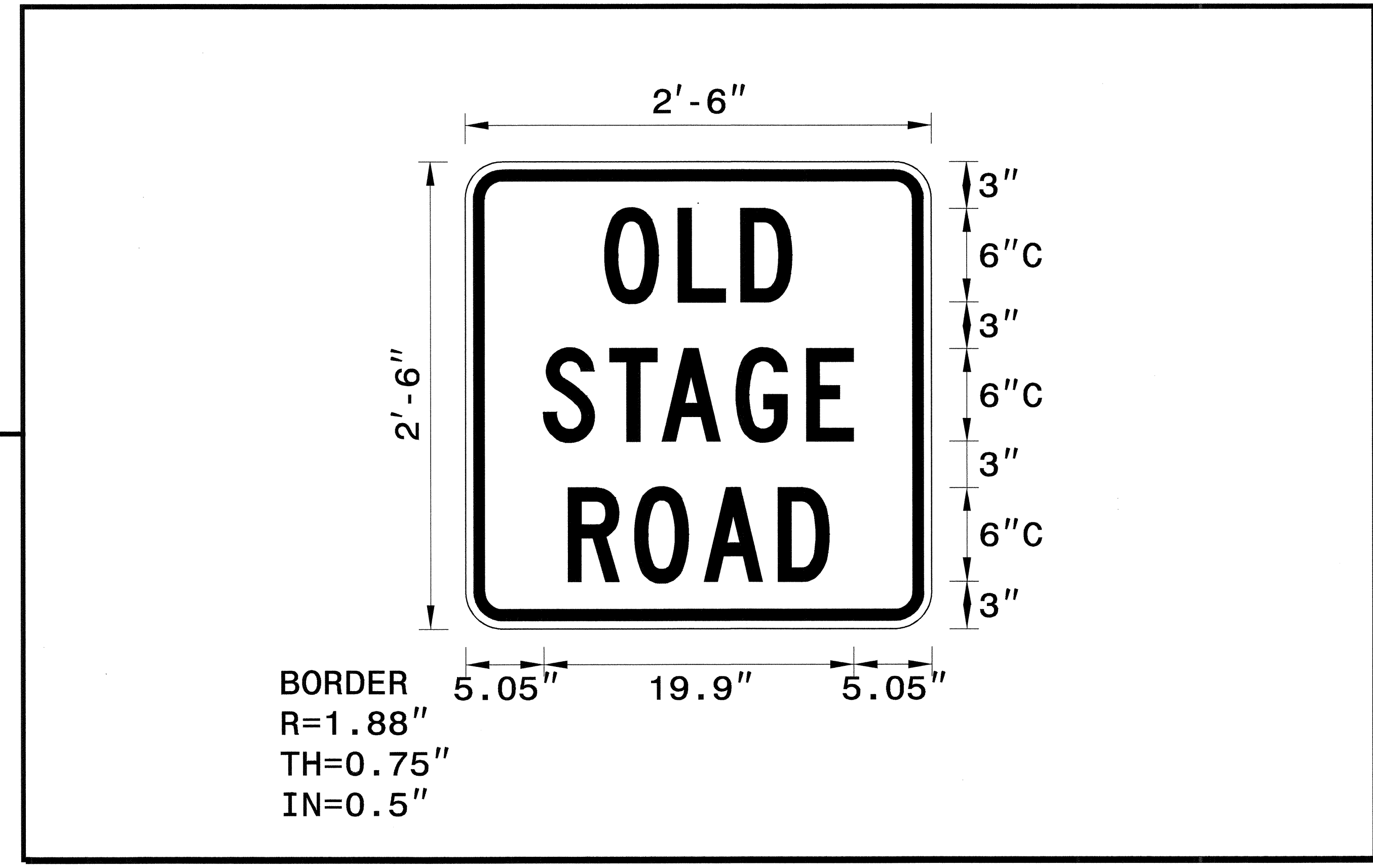
N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT



Sign Width: 2'-6" Background Color: Fluorescent Orange
Height: 2'-6" Legend & Border Color: Black
Total Area: 6.3 Sq.Ft.

Border Type: Recessed Backing Material: 0.125 in. Aluminum
Recess: 0.5" 0.079 in. Composite
Width: 0.75"
Radii: 1.88"

- NOTES:
- Legend and border shall be direct applied non-reflective sheeting.
 - Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.



Letter spacings are to start of next letter

																						Series/Size Text Length
		O	L	D																		C
	9	4.7	4	3.3	9																	12
		S	T	A	G	E																C
	5	4.3	3.3	4.8	4.6	3	5															19.9
		R	O	A	D																	C
	6.6	4.3	4.5	4.8	3.3	6.6																16.8

Spacing Factor is 1 unless specified otherwise

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