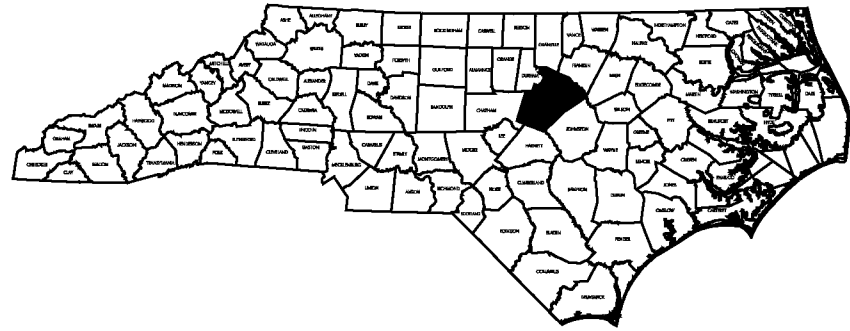


TIP PROJECT: I-5125

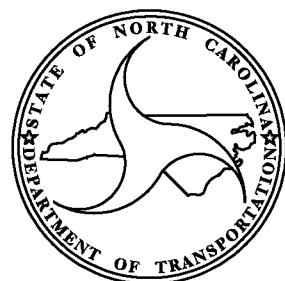
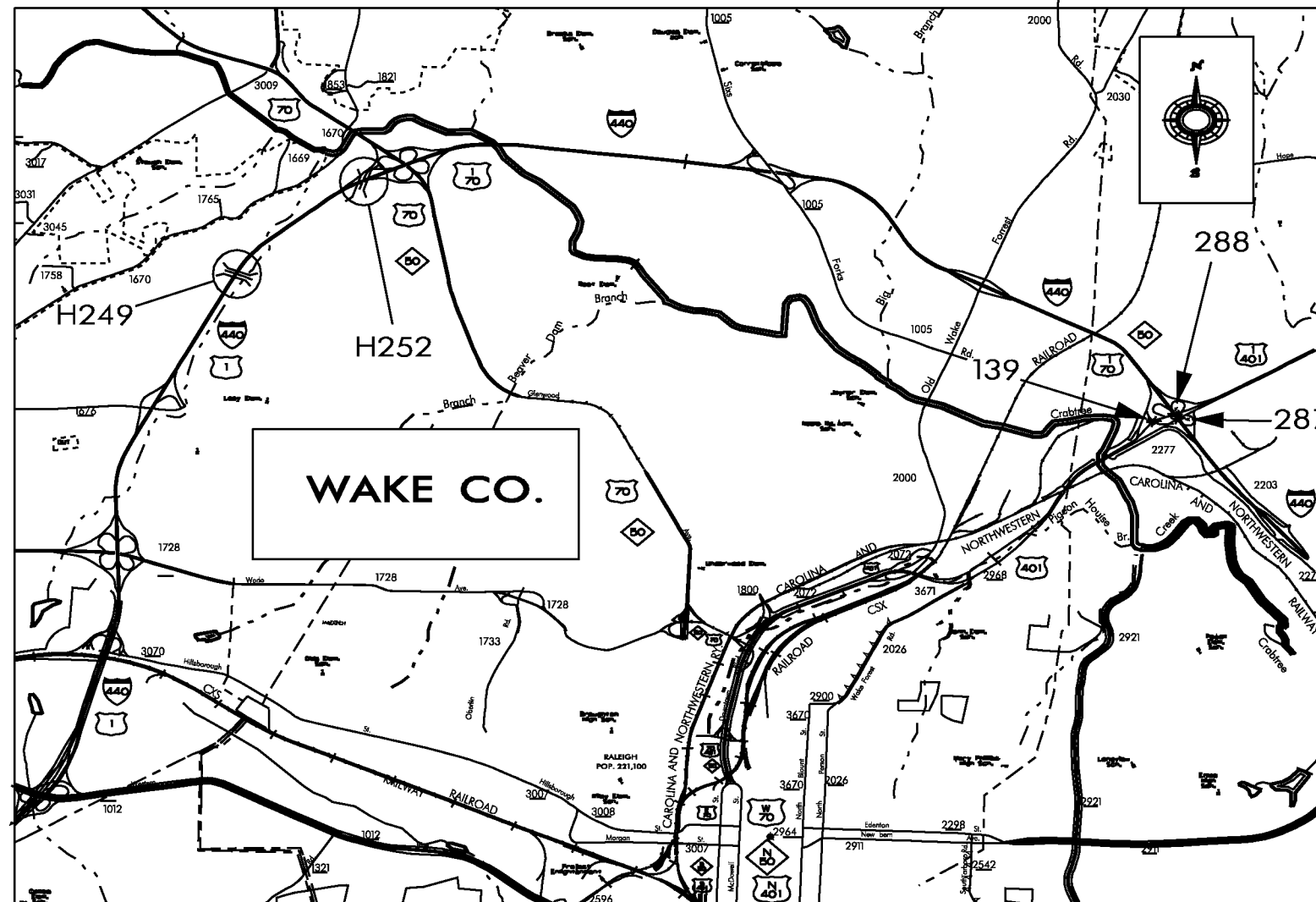


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

LOCATION: I-440
 TYPE OF WORK: CLEANING & PAINTING OF
 BRIDGE #249, #252, #139, #287, & #288 IN WAKE CO.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5125	1	
STATE PROJECT NO.	R.A. NUMBER	DESCRIPTION	
4506&I,ST1	STM-0440 (B)	PE	
4506&I,ST1	STM-0440 (B)	CONSTR	



PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT = 0.000 MILES

TOTAL LENGTH TIP PROJECT = 0.000 MILES

Prepared in the Office of:
BRIDGE MANAGEMENT UNIT
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

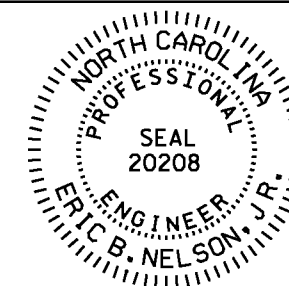
2006 STANDARD SPECIFICATIONS

LETTING DATE:

JULY 28, 2009

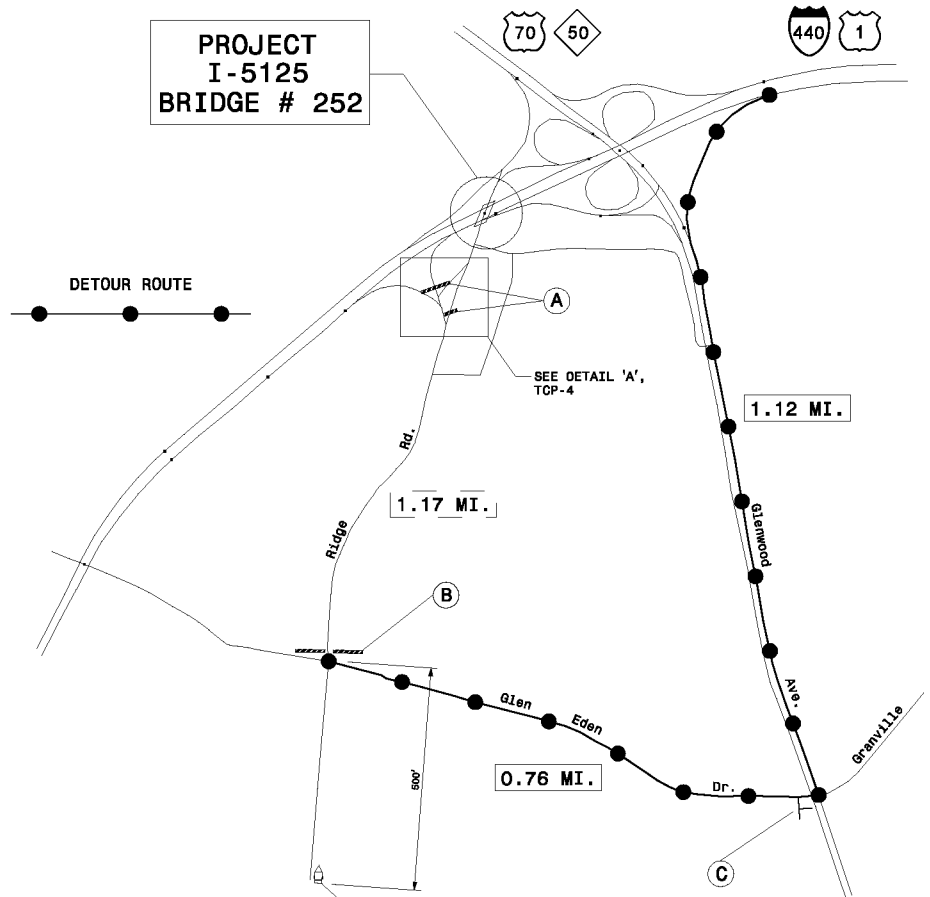
DAN HOLDERMAN, PE
 STATE BRIDGE
 MANAGEMENT ENGINEER

MIKE SUMMERS
 BRIDGE MANAGEMENT
 PROJECT MANAGER



RICK NELSON, PE
 DESIGN ENGINEER

DETOUR FOR CLOSURE OF ON-RAMP FROM RIDGE RD TO I-440 NORTH



**PROJECT
I-5125
BRIDGE # 252**



DETOUR ROUTE

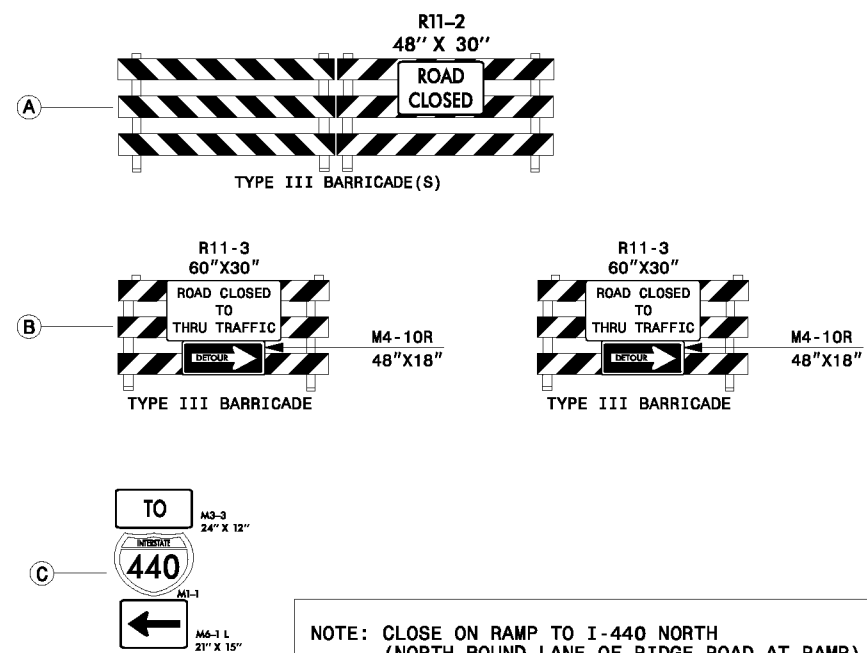
SEE DETAIL 'A',
TCP-4

1.17 MI.

1.12 MI.

0.76 MI.

MESSAGE NO. 1	MESSAGE NO. 2
I-440 RAMP CLOSED	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN	

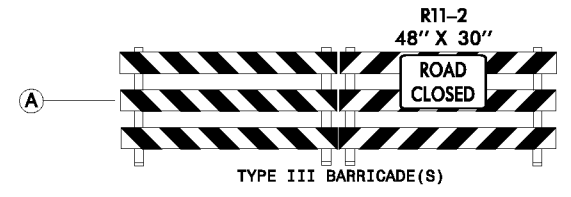
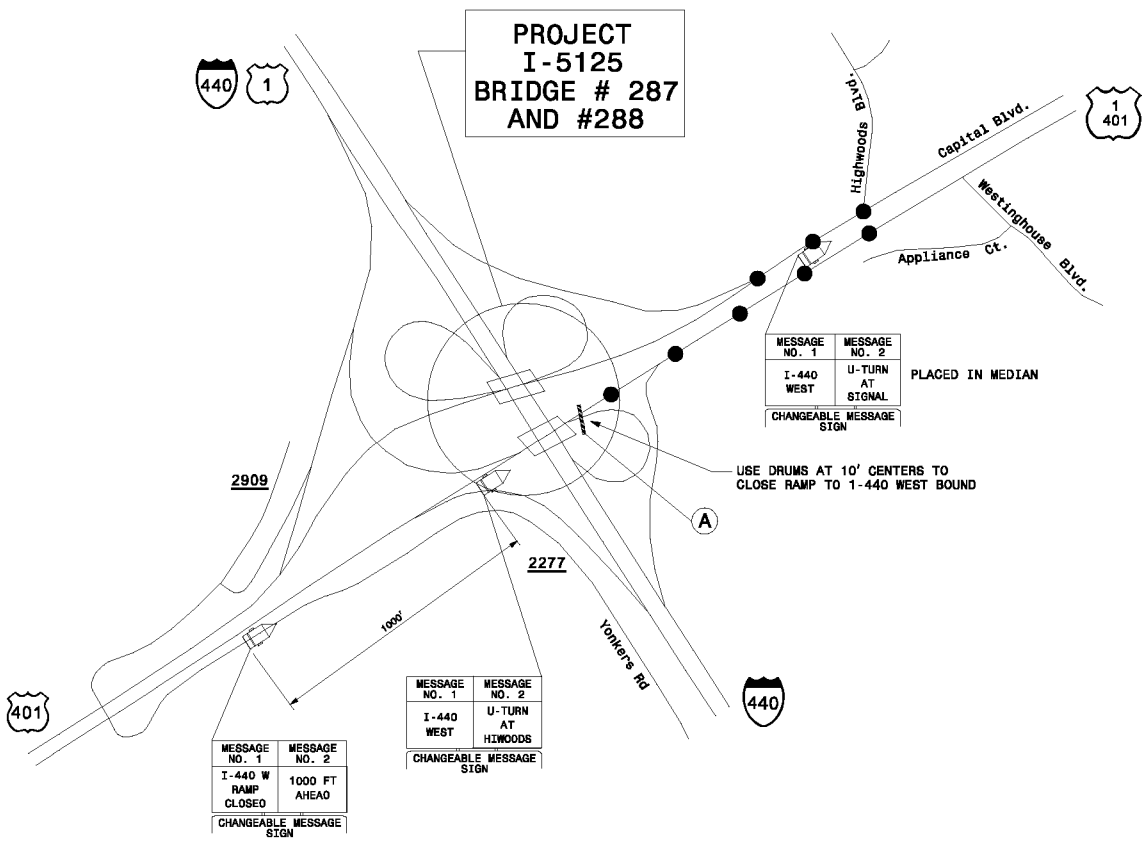


NOTE: CLOSE ON RAMP TO I-440 NORTH (NORTH BOUND LANE OF RIDGE ROAD AT RAMP) WHEN OUTSIDE LANE/LANES OF I-440 NORTH ARE CLOSED

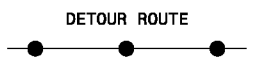
APPROVED: _____	DATE: _____	BRIDGE NO. 252 DETOUR AND SIGNING	
	SCALE: NONE	REVISIONS	
	DATE: 09/08		
	DWG. BY: AKP		
	DESIGN BY: AKP		
REVIEWED BY: DAP			

*****SYTIME*****
 *****REVISIONS*****
 *****DATE*****
 *****BY*****
 *****CHECKED*****
 *****DATE*****

DETOUR FOR CLOSURE OF ON-RAMP TO I-440 WEST FROM CAPITAL BLVD (NB)



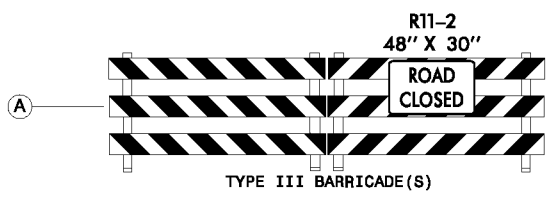
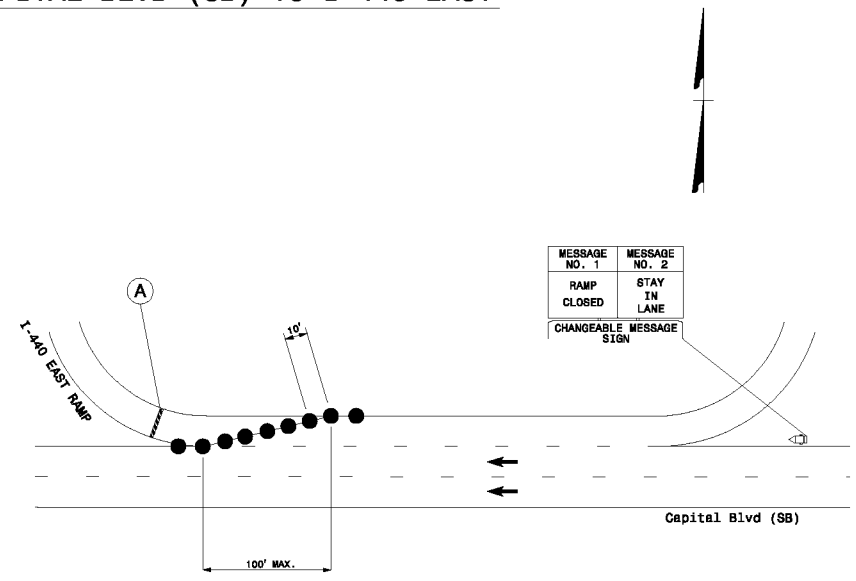
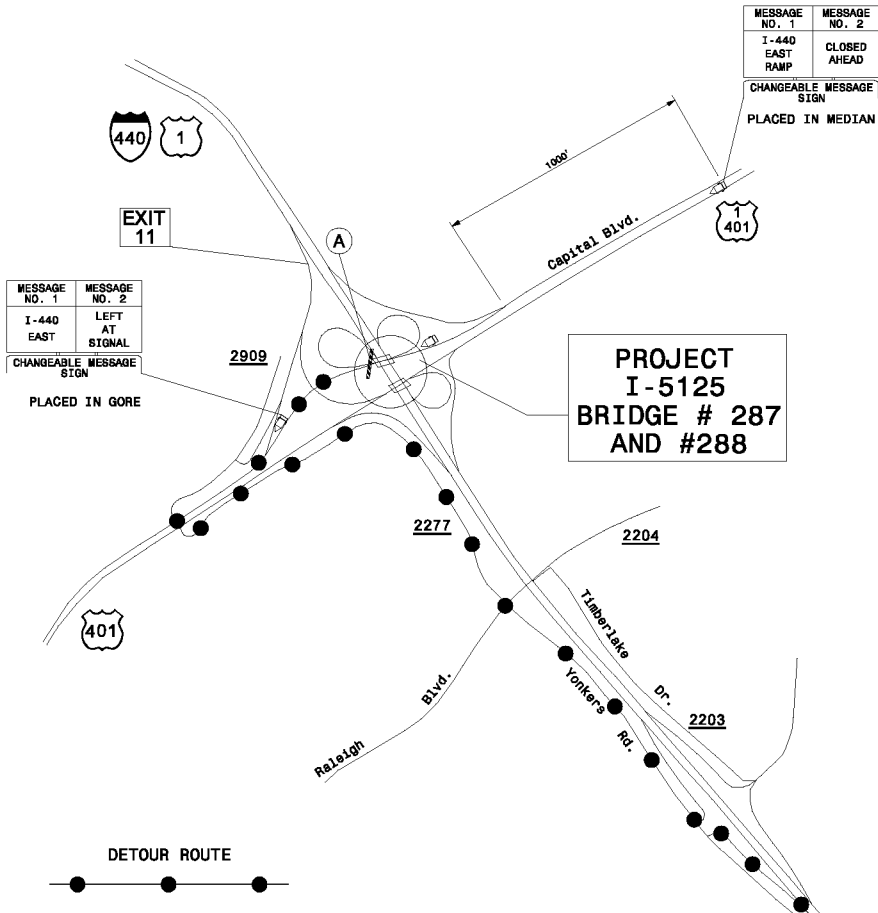
NOTE: CLOSE ON RAMP TO I-440 WEST FROM CAPITAL BLVD (NB), WHEN OUTSIDE LANE/LANES OF I-440 WEST ARE CLOSED USE TCP-8 IN CONJUNCTION WITH TCP-9



*****SYTIME*****
*****DRAWING/CONSTRUCTION*****
*****REVISIONS*****

APPROVED:	DATE:	BRIDGE NO. 287-288 DETOUR AND SIGNING	
	SCALE: NONE		REVISIONS
	DATE: 09/08		
	DWG. BY: AKP		
	DESIGN BY: AKP		
	REVIEWED BY: DAP		DATE:

DETOUR FOR CLOSURE OF ON-RAMP FROM CAPITAL BLVD (SB) TO I-440 EAST



NOTE: CLOSE ON RAMP TO I-440 EAST FROM CAPITAL BLVD (SB), WHEN OUTSIDE LANE/LANES OF I-440 EAST ARE CLOSED

APPROVED:	DATE:	BRIDGE NO. 287-288 DETOUR AND SIGNING					
SCALE: NONE	DATE: 09/08	REVISIONS					
DWG. BY: AKP	DESIGN BY: AKP	<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					
REVIEWED BY: DAP							

*****SYTIME*****
*****CADD/CON*****
*****PLANNING*****

DETOUR FOR CLOSURE OF OFF-RAMP FROM I-440 EAST TO CAPITAL BLVD NORTH

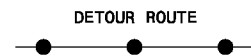
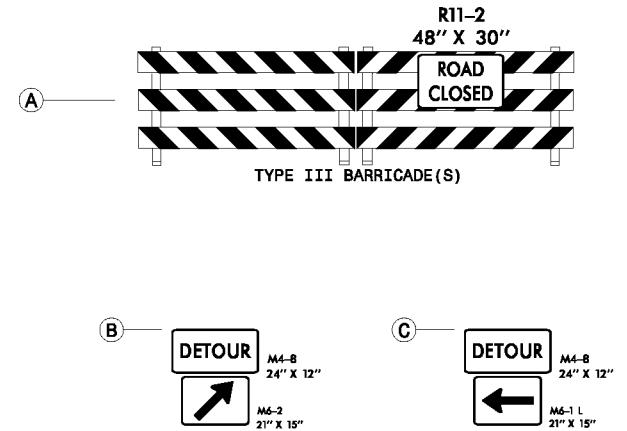
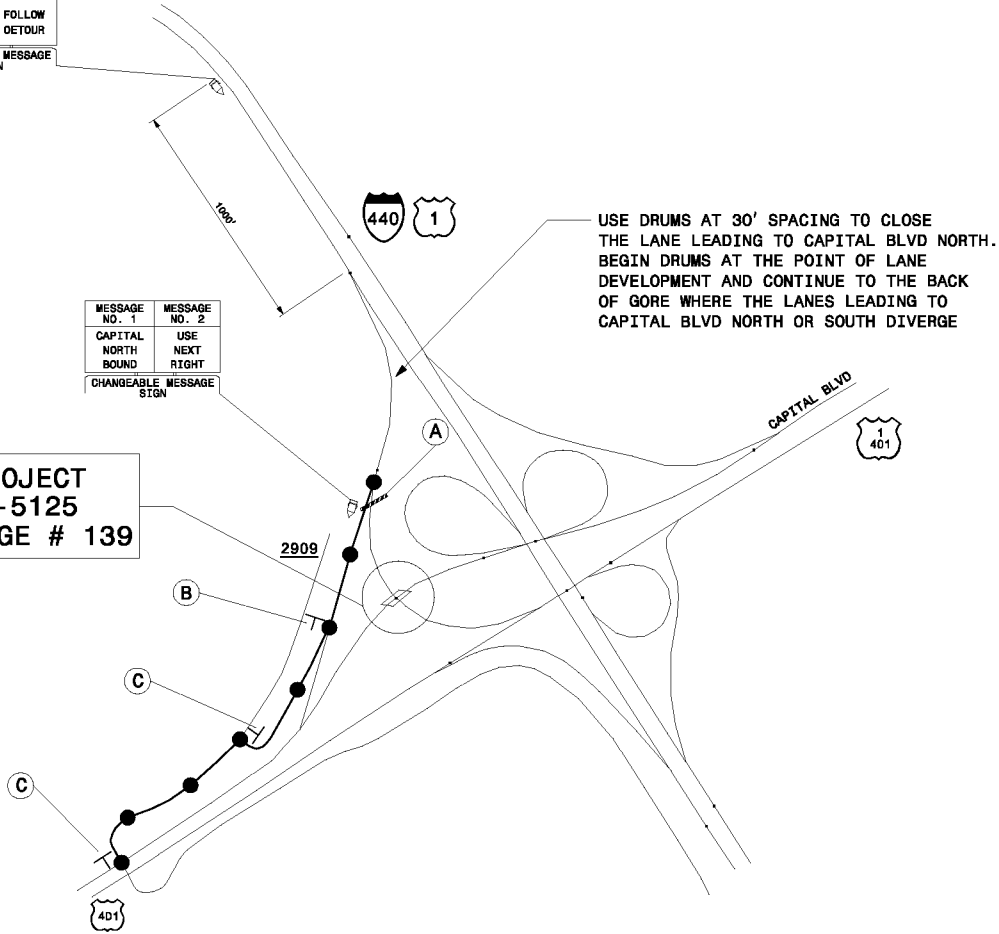
MESSAGE NO. 1	MESSAGE NO. 2
CAP BLVD NORTH CLOSED	FOLLOW OETOUR


CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
CAPITAL NORTH BOUND	USE NEXT RIGHT

CHANGEABLE MESSAGE SIGN

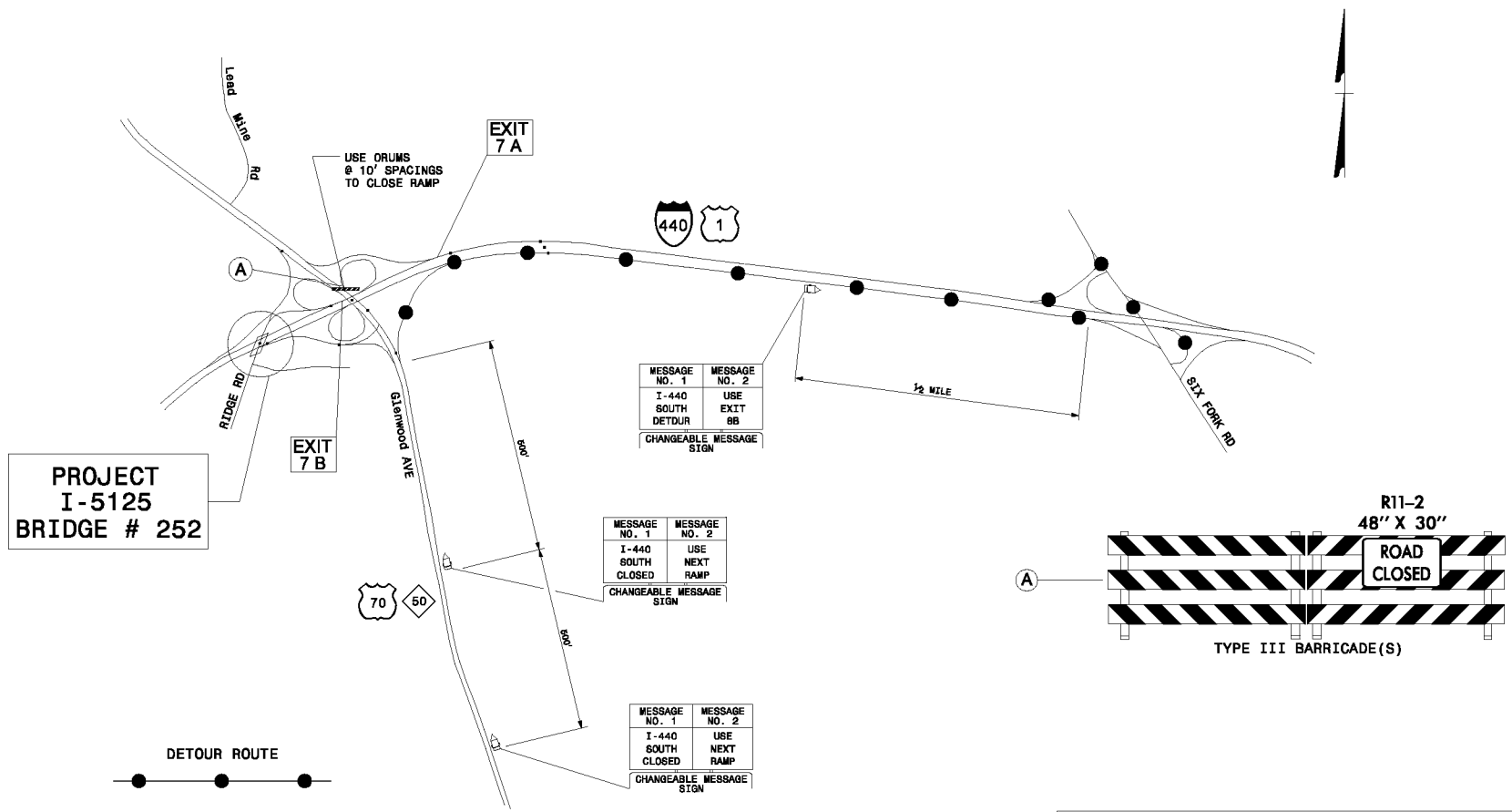
**PROJECT I-5125
BRIDGE # 139**




APPROVED:	DATE:	BRIDGE NO. 139 DETOUR AND SIGNING	
			
		DATE: 09/08	
		DWG. BY: AKP	
		DESIGN BY: AKP	
REVIEWED BY: DAP			DATE:

*****SYTIME*****
 *****KIM*****
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 *****KIM*****

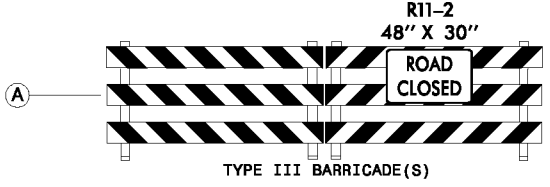
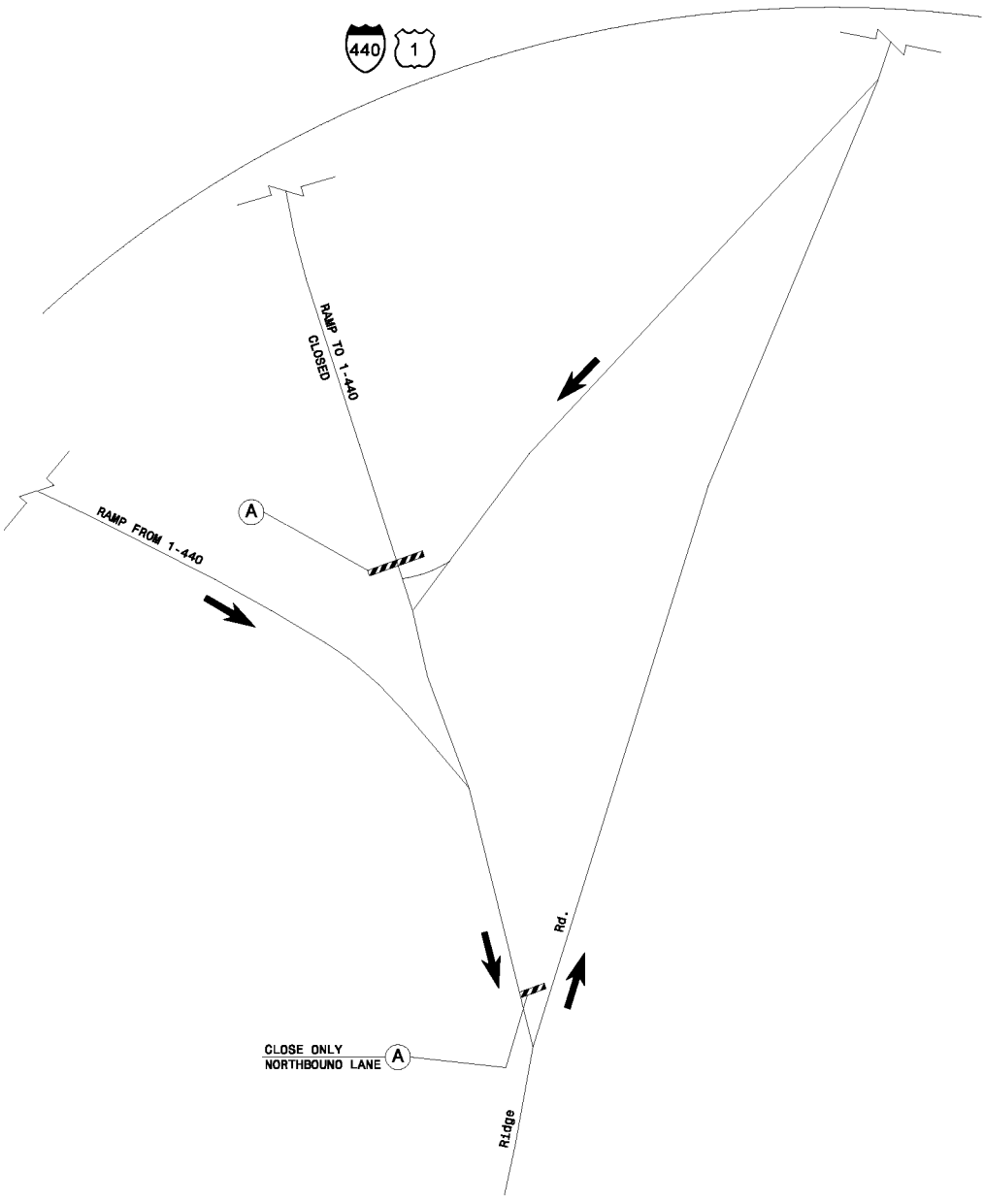
DETOUR FOR CLOSURE OF ON-RAMP FROM GLENWOOD AVE TO I-440 SOUTH



NOTE: CLOSE ON RAMP TO I-440 SOUTH FROM GLENWOOD AVE, WHEN OUTSIDE LANE/LANES OF I-440 SOUTH ARE CLOSED

APPROVED:	DATE:	BRIDGE NO. 252 DETOUR AND SIGNING							
SEAL		SCALE: NONE DATE: 09/08 DWG. BY: AKP DESIGN BY: AKP REVIEWED BY: DAP	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						

*****STIMES*****
*****DRAWING*****
*****NO. 022104*****
*****DATE: 09/08*****
*****BY: AKP*****
*****DESIGN BY: AKP*****
*****REVIEWED BY: DAP*****



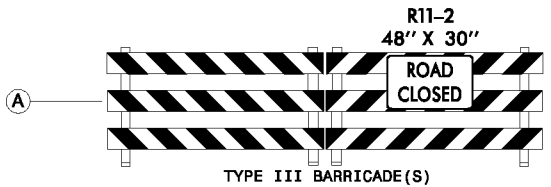
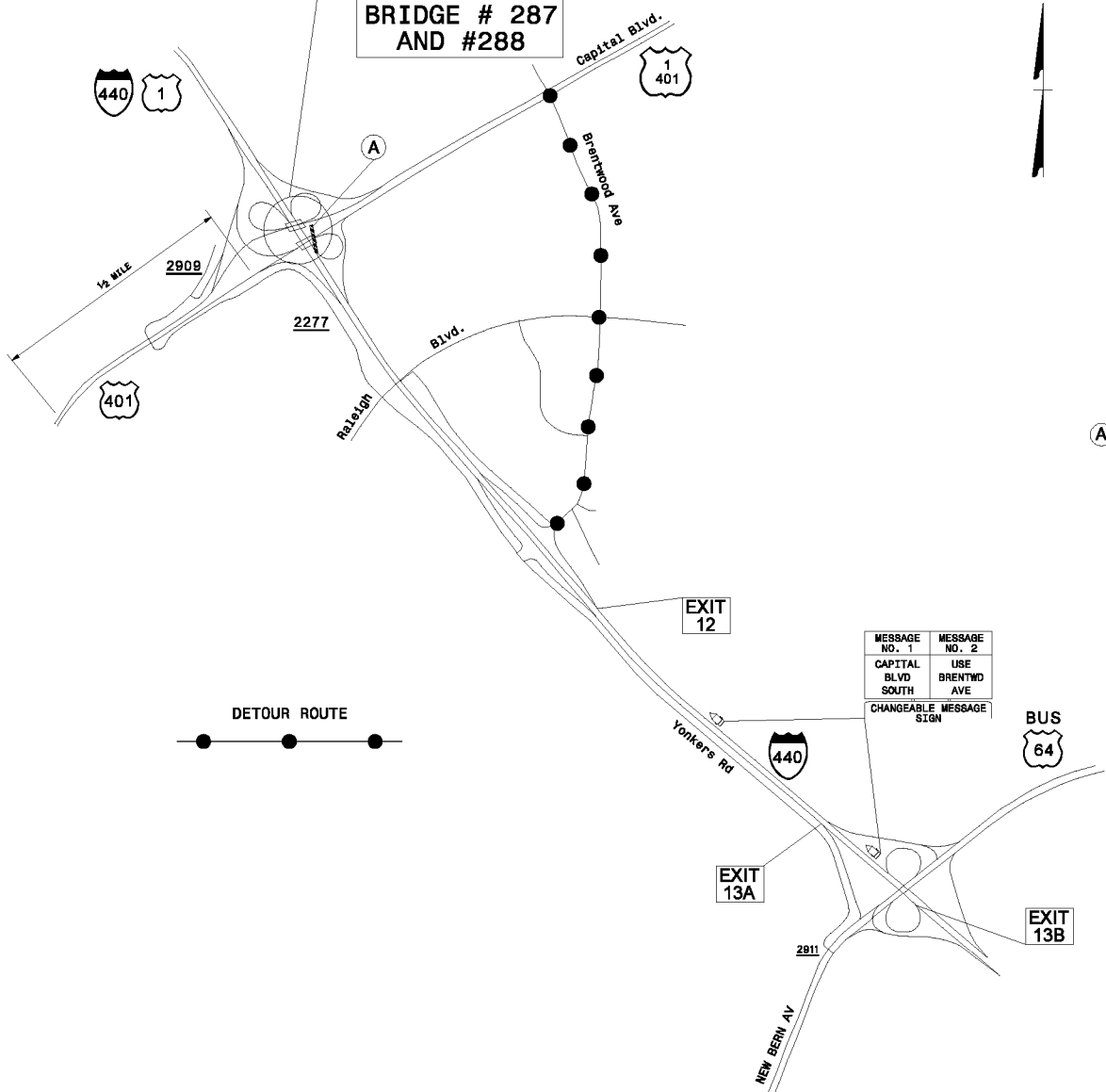
NOTE: CLOSE ON RAMP TO I-440 NORTH
(NORTH BOUND LANE OF RIDGE ROAD AT RAMP)
WHEN OUTSIDE LANE/LANES OF I-440 NORTH
ARE CLOSED

*****STIMES*****
*****WAKE*****
*****AKP*****
*****AKP*****
*****AKP*****

APPROVED:	DATE:	BRIDGE NO. 252 DETAIL 'A'	
	SCALE: NONE		
	DATE: 09/08		
	DWG. BY: AKP		
	DESIGN BY: AKP		
	REVIEWED BY: DAP		
REVISIONS			

PROJ. REFERENCE NO.	SHEET NO.
I-5125	TCP-9
WAKE	
BRIDGE NO. 287-288	

**PROJECT
I-5125
BRIDGE # 287
AND #288**



MESSAGE NO. 1	MESSAGE NO. 2
CAPITAL BLVD SOUTH	USE BRENTWOOD AVE
CHANGEABLE MESSAGE SIGN	

APPROVED:	DATE:	BRIDGE NO. 287-288 DETOUR AND SIGNING	
		REVISIONS	

*****SYTIME*****
 *****DRAWING*****
 *****PROJECT*****
 *****DATE*****

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
I-5125	TCP-2
WAKE	
BRIDGE NO. 249, 252, 287, 288 AND 139	

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS 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 UNDESIRED 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
1. I-440 & I-440 RAMPS	MONDAY THRU SUNDAY 8:00AM TO 9:00PM

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

ROAD NAME

1. I-440 & I-440 RAMPS

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 6:00AM DECEMBER 31st TO 9:00PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 9:00PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00AM THURSDAY AND 9:00PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00AM FRIDAY TO 9:00PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00AM THE DAY BEFORE INDEPENDENCE DAY AND 9:00PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00PM THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 8:00AM FRIDAY AND 9:00PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00AM TUESDAY TO 9:00PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 8:00AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00PM 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 A DIVIDED FACILITY AND WITHIN 10 FT (3M) 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 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 PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT (5M) OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.
- G) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON ALL ROADS.

SIGNING

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

TRAFFIC CONTROL DEVICES

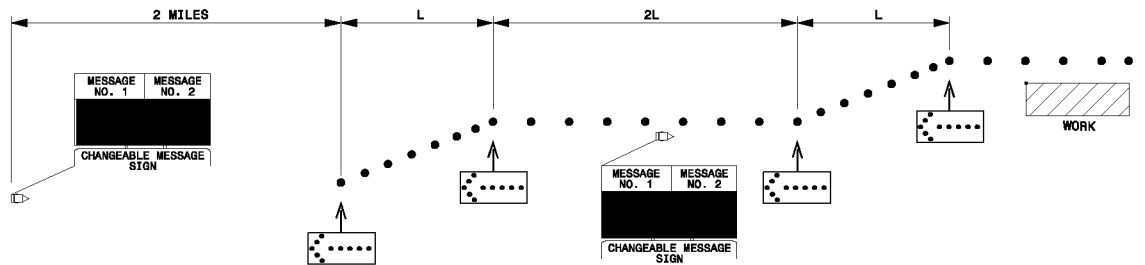
- K) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- L) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY
- M) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT (150M) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

ADDITIONAL DEVICES FOR TEMPORARY LANE CLOSURES

WHEN USING RSD 1101.02, SHEET 5 TO CLOSE TWO LANES ON I-44D, USE A TOTAL OF FOUR FLASHING ARROW PANELS; ONE AT THE BEGINNING AND ONE AT THE END OF EACH MERGE TAPER.

USE A TOTAL OF TWO CHANGABLE MESSAGE SIGNS. ONE PLACED 2 MILES IN ADVANCE OF THE FIRST MERGE TAPER AS SHOWN ON RSD 1101.02, SHEET 5. PLACE AN ADDITIONAL CMS WITHIN THE TANGENT BETWEEN THE TWO MERGE TAPERS THAT READS "ADVISORY SPEED 50 MPH".

USE POLICE TO AID IN THE SET UP AND REMOVAL OF TRAFFIC CONTROL DEVICES FOR LANE CLOSURES ON I-440. (SEE SPECIAL PROVISION)



APPROVED:	DATE:	GENERAL NOTES															
SEAL		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>NONE</td> </tr> <tr> <td>DATE:</td> <td>9/08</td> </tr> <tr> <td>DWG. BY:</td> <td>AKP</td> </tr> <tr> <td>DESIGN BY:</td> <td>AKP</td> </tr> <tr> <td>REVIEWED BY:</td> <td>DAP</td> </tr> </table>	SCALE:	NONE	DATE:	9/08	DWG. BY:	AKP	DESIGN BY:	AKP	REVIEWED BY:	DAP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">REVISIONS</td> </tr> <tr> <td style="height: 20px;"> </td> </tr> <tr> <td style="height: 20px;"> </td> </tr> <tr> <td style="height: 20px;"> </td> </tr> </table>	REVISIONS			
SCALE:	NONE																
DATE:	9/08																
DWG. BY:	AKP																
DESIGN BY:	AKP																
REVIEWED BY:	DAP																
REVISIONS																	

*****SYSTEMS*****
 *****PRINTED ON RECYCLED PAPER*****
 *****NO CHANGES TO THIS DRAWING*****
 *****DATE OF PRINTING: 9/10/08*****
 *****DRAWING NO. 1101.02*****
 *****SHEET NO. 2*****
 *****PROJECT NO. I-5125*****
 *****SHEET NO. TCP-2*****

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PLAN FOR PROPOSED TRAFFIC CONTROL
FOR BRIDGE PAINTING OPERATIONS
WAKE COUNTY**

STATE PROJECT REFERENCE NO.	SHEET NO.
I-5125	TCP-1

BRIDGE NO. 249, 252,
287, 288 AND 139

I-5125

TIP PROJECT:

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.D2	TEMPORARY LANE CLOSURES
1101.D4	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
111D.D2	PORTABLE WORK ZONE SIGNS
1115.D1	FLASHING ARROW PANELS
1130.01	DRUM
1135.D1	CONES
1145.D1	BARRICADES
1165.D1	TRUCK MOUNTED IMPACT ATTENUATOR

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS AND PHASING
TCP-2	GENERAL NOTES
TCP-3-5	BRIDGE NO. 252 DETOUR AND SIGNING
TCP-6	BRIDGE NO. 139 DETOUR AND SIGNING
TCP-7-9	BRIDGE NO. 287-288 DETOUR AND SIGNING

TRAFFIC CONTROL NARRATIVE

THIS TRAFFIC CONTROL PLAN IS INTENDED TO SAFELY AND EFFICIENTLY GUIDE MOTORISTS THROUGH OR AROUND THE PAINTING SITES AND ALLOW THE CONTRACTOR TO SAFELY PERFORM THE REQUIRED WORK.

IN ORDER TO FACILITATE THE EFFICIENT COMPLETION OF THE WORK, FEW RESTRICTIONS HAVE BEEN PLACED IN THIS PLAN. THE CONTRACTOR MAY BEGIN WORK AT THE SITE OF HIS CHOOSING AND MAY MOVE BETWEEN SITES AS HE SEES FIT AS LONG AS HE STAYS WITHIN THE PARAMETERS ESTABLISHED IN GENERAL NOTE "A", AND THE FOLLOWING LOCAL NOTES:

BRIDGE NO. 249

USE RSD 1101.02, SHEET 5 TO CLOSE TWO LANES OF I-440. THE CONTRACTOR MAY ESTABLISH A SINGLE TRAFFIC CONTROL SET-UP IN ORDER TO WORK ON BRIDGE 249 AND 252 SIMULTANEOUSLY.

BRIDGE NO. 252

USE RSD 1101.02, SHEET 5 TO CLOSE TWO LANES OF I-440. THE CONTRACTOR MAY ESTABLISH A SINGLE TRAFFIC CONTROL SET-UP IN ORDER TO WORK ON BRIDGE 249 AND 252 SIMULTANEOUSLY.

WHEN CLOSING THE OUTSIDE LANES OF I-440 NB, CLOSE AND DETOUR THE ON-RAMP FROM RIDGE RD. IN ACCORDANCE WITH TCP-3 AND 4.

WHEN CLOSING THE OUTSIDE LANES OF I-440 SB, CLOSE AND DETOUR THE ON-RAMP FROM GLENWOOD AVE. WESTBOUND IN ACCORDANCE WITH TCP-5.

WHEN CLOSING THE OUTSIDE LANES OF I-440 SB, BEGIN THE FIRST MERGE TAPER AT THE BACK OF THE GORE BETWEEN I-440 SB AND OFF RAMP TO GLENWOOD AVE. WB. USE 720 FT. MERGE TAPERS. USE A 500 FT. TANGENT SECTION BETWEEN THE TWO TAPERS.

BRIDGE NO. 139

FULL CLOSURE OF THE RAMP TO CAPITAL BLVD. NORTH IS REQUIRED TO PERFORM PAINTING OPERATIONS ON THIS BRIDGE. CLOSE AND DETOUR THE RAMP IN ACCORDANCE WITH TCP-8.

BRIDGE NO. 287 AND 288

USE RSD 1101.02, SHEET 5 TO CLOSE TWO LANES OF I-440. THE CONTRACTOR MAY ESTABLISH A SINGLE TRAFFIC CONTROL SET-UP IN ORDER TO WORK ON BRIDGE 287 AND 288 SIMULTANEOUSLY.

WHEN CLOSING THE OUTSIDE LANES OF I-440 EB, CLOSE AND DETOUR THE ON-RAMP FROM CAPITAL BLVD. SOUTH IN ACCORDANCE WITH TCP-7.

WHEN CLOSING THE OUTSIDE LANES OF I-440 WB, CLOSE AND DETOUR THE ON-RAMP FROM CAPITAL BLVD. NORTH IN ACCORDANCE WITH TCP-8.

ALSO, WHEN CLOSING THE OUTSIDE LANES OF I-440 WB, THE OFF RAMP TO CAPITAL BLVD. SOUTH SHALL REMAIN OPEN. PLACE CMS BOARDS AND DETOUR SIGNING IN ACCORDANCE WITH TCP-9 TO MINIMIZE USAGE OF THIS RAMP.

LEGEND

- GENERAL**
- ← DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. - - - EXIST. PVMT.
 - WORK AREA
 - ▨ REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- I TYPE I BARRICADE
 - II TYPE II BARRICADE
 - III TYPE III BARRICADE
 - ▲ CONE
 - DRUM ● SKINNY DRUM
 - ⊙ FLASHING ARROW PANEL (TYPE C)
 - T STATIONARY SIGN
 - ⊚ PORTABLE SIGN
 - ⊚ STATIDNARY DR PORTABLE SIGN
 - ⚠ WARNING FLAGS
 - CRASH CUSHION
 - ⊠ CHANGEABLE MESSAGE SIGN
 - ⊠ TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - ⊠ PDLICE
 - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - ◆ YELLOW/YELLOW PAVEMENT MARKER
 - ▮ CRYSTAL/RED PAVEMENT MARKER
 - ↔ PAVEMENT MARKING SYMBOLS

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
DATE:	
SEAL	J. STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	J. STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	DON PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	ASHVIN PATEL, P.E. TRAFFIC CONTROL DESIGN ENGINEER

*****SYSTEM*****
*****PROJECT*****
*****DRAWING*****
*****DATE*****
*****SCALE*****
*****SHEET*****
*****TOTAL*****