

TIP PROJECT: B-5179B CONTRACT NO. C202311

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STATE PROJECT REFERENCE NO. B-5179B	SHEET NO. TCP-1
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LOCATION: BRIDGES 66, 70, 206, 208, 274, 283, 285, 439 AND 454 ALONG I-240

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE DECK PRESERVATION

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:

<u>STD. NO.</u>	<u>TITLE</u>
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
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
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
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS
TCP-2, 2A	GENERAL NOTES
TCP-3, 3A	PROJECT PHASING
TCP-4	OVERVIEW AND VICINITY MAP
TCP-5	I-240 E DETOUR #1 BRIDGES 66, 206, 274, 283
TCP-5A	I-240 E DETOUR #1, SHEET 2
TCP-6	I-240 E DETOUR #2 BRIDGES 66, 206, 283
TCP-7	I-240 W DETOUR #1 BRIDGES 70, 208, 274, 285
TCP-7A	I-240 W DETOUR #1, SHEET 2
TCP-8	I-240 W DETOUR #2 BRIDGES 70, 208, 285
TCP-9	BRIDGE #439 REHAB I-240 W
TCP-9A	BRIDGE #439 - RAMP CLOSURE
TCP-10	BRIDGE #454 REHAB I-240 E
TCP-10A	BRIDGE #454 REHAB - RAMP CLOSURE
TCP-11	WORK ZONE ADVANCE 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
- PORTABLE CONCRETE BARRIER
- TEMPORARY 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

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APPROVED
DATE: October 6, 2009

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SEAL
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BETSY L. WATSON, PE **TRAFFIC CONTROL ENGINEER**

GEORGE KARAGEORGE **TRAFFIC CONTROL DESIGNER**

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 CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-26 & I-40 INCLUDING ALL RAMPS & LOOPS	6:30 A.M. - 6:30 P.M. EVERY DAY (7 DAYS PER WEEK)

I-240 INCLUDING ALL RAMPS & LOOPS	6:30 A.M. - 6:30 P.M. EVERY DAY, EXCEPT DURING CLOSURES OF I-240 AS ALLOWED BY NOTE C
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B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
I-26, I-40 & I-240 INCLUDING ALL RAMPS & LOOPS

HOLIDAY

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:30 P.M. DECEMBER 31st TO 6:30 A.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:30 A.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:30 P.M. THURSDAY AND 6:30 A.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:30 P.M. FRIDAY TO 6:30 A.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:30 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:30 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:30 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:30 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:30 P.M. FRIDAY AND 6:30 A.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:30 P.M. TUESDAY TO 6:30 A.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:30 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:30 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- 9) FOR THE BELE CHERE FESTIVAL, BETWEEN THE HOURS OF 6:30 P.M. THE WEDNESDAY BEFORE THE FESTIVAL AND 6:30 A.M. THE WEDNESDAY AFTER THE FESTIVAL.

C) DO NOT CLOSE ROADS AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-240 (AREAS 1 AND 2)	6:30 A.M. MONDAY - 6:30 P.M. FRIDAY

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) 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.
- E) 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.
- F) 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.
- G) 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.
- H) 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.
- I) PROVIDE A MINIMUM OF 1 MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

L) 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.

M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

AND


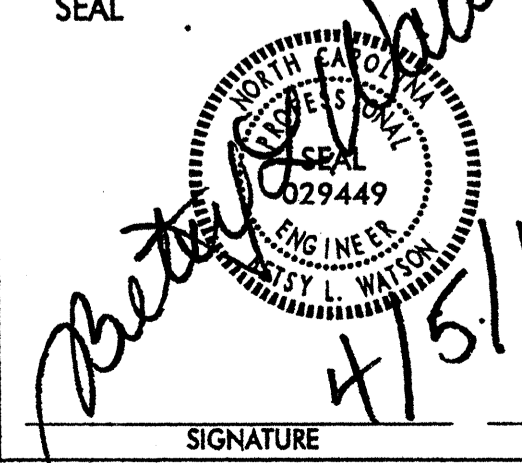
PROVIDE SIGNING REQUIRED FOR THE OFFSITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

AND

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFFSITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

 Stantec <small>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27605 Tel. 919.851.6666 Fax. 919.551.7024 www.stantec.com</small>	SEAL  SIGNATURE	DATE 4/5/10	GENERAL NOTES																				
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GENERAL NOTES

TRAFFIC BARRIER

P) ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE TEMPORARY BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

PLACE TEMPORARY BARRIER NO CLOSER THAN 2 FT. FROM A TRAVEL LANE, UNLESS OTHERWISE SHOWN IN THE PLAN. A 1 FOOT OFFSET MAY BE USED IF 2 FT. IS NOT ATTAINABLE, AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

Q) PROTECT THE APPROACH END OF PORTABLE CONCRETE BARRIER AT ALL TIMES INCLUDING DURING INSTALLATION AND REMOVAL OF THE BARRIER. PROTECT APPROACH END BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

TRAFFIC CONTROL DEVICES

R) UNLESS OTHERWISE NOTED IN THE PLANS, SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, 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.

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

U) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.

V) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON FINAL LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT (2 APPS)	SNOWPLOWABLE

W) REPLACE ALL PAVEMENT MARKINGS AND MARKERS BEFORE RE-OPENING LANES TO TRAFFIC.

MISCELLANEOUS

X) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

Y) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC CONTROL PLAN AND PHASING ARE APPROXIMATE; FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.

Z) THE CONTRACTOR IS TO FURNISH, INSTALL, MAINTAIN, RELOCATE AND REMOVE CHANGEABLE MESSAGE SIGNS DURING VARIOUS STAGES OF CONSTRUCTION AT THE DISCRETION OF THE ENGINEER TO ADEQUATELY INFORM MOTORISTS OF CHANGING WORK ZONE CONDITIONS.

AA) PLACE ALL CHANGEABLE MESSAGE SIGNS AS NEEDED IN THE LOCATIONS AND WITH THE WORD MESSAGES AS SHOWN IN THE TCP OR AS DIRECTED BY THE ENGINEER TO PROVIDE ADVANCE WARNING TO THE PUBLIC DURING CONSTRUCTION.


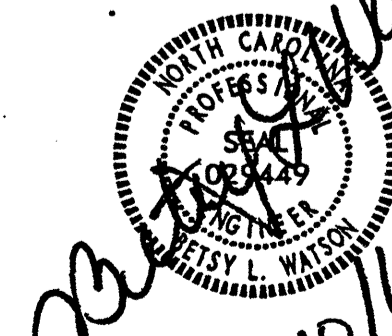

BB) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE INCLUDING THE FOLLOWING AREAS OF CONCERN:

- A. LANE CLOSURE RESTRICTIONS.
- B. DETOURS OFFSITE AND ONSITE.
- C. AREAS OF CONSTRICTED HORIZONTAL CLEARANCES (NARROW LANES OR LANES BORDERED WITH EITHER PCB AND/OR GUARDRAIL).

CC) COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING ANY DETOURS:

- SIGNAL TIMINGS ALONG AFFECTED LOCAL ROUTES HAVE BEEN ADJUSTED.
- HAR AND DMS MESSAGES HAVE BEEN PREPARED/IMPLEMENTED.
- NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED.

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THE TRAFFIC CONTROL PHASING FOR THIS PROJECT IS DIVIDED INTO 4 AREAS OF CONSTRUCTION

- AREA 1 - BRIDGES #283, 66, 206 AND 274 ON I-240 EASTBOUND
- AREA 2 - BRIDGES #285, 70, 208 AND 274 ON I-240 WESTBOUND
- AREA 3 - BRIDGE #439 I-240 WESTBOUND
- AREA 4 - BRIDGE #454 I-240 EASTBOUND

THE FOLLOWING RESTRICTIONS APPLY TO WORK PERFORMED IN THESE AREAS.

- WHEN WORKING IN AREA 1 DO NOT WORK IN ANY OTHER AREAS.
- WHEN WORKING IN AREA 2 DO NOT WORK IN ANY OTHER AREAS.
- WORK IN AREAS 3 AND 4 MAY BE PERFORMED SIMULTANEOUSLY.

INSTALL WORK ZONE ADVANCE WARNING SIGNS PRIOR TO ANY CONSTRUCTION OPERATIONS (TCP-11).

AREA 1 BRIDGES 283, 66, 206, AND 274 - EASTBOUND DIRECTION
SEE SHEET TCP-4 FOR OVERVIEW

STEP 1: BEGIN PREPARATION OF TRAFFIC CONTROL DEVICES FOR IMPLEMENTATION IN NEXT STEP. INSTALL CHANGEABLE MESSAGE SIGNS AS WILL BE REQUIRED FOR ROAD CLOSURES AND PUBLIC INFORMATION.

REPEAT STEPS 2A, 2B AND 2C FOR AS MANY WEEKENDS AS NECESSARY TO COMPLETE THE WORK, ADHERING TO THE OVERALL CONTRACT TIME IN ADDITION TO NOTES B AND C ON SHEET TCP-2. WEEKENDS DO NOT HAVE TO BE CONSECUTIVE.

STEP 2A: INSTALL TRAFFIC CONTROL DEVICES TO IMPLEMENT I-240 EASTBOUND DETOUR #1 AND CLOSE I-240 EASTBOUND AS SHOWN ON SHEET TCP-5, 5A.

STEP 2B: CONSTRUCT BRIDGE PRESERVATION FOR BRIDGE NO. 274 EASTBOUND DIRECTION.

WORK ON BRIDGES 283, 66, AND 206 EASTBOUND MAY BE PERFORMED DURING THIS DETOUR; HOWEVER, ANY WORK THAT IS BEGUN MUST BE COMPLETED SUCH THAT ALL LANES ARE REOPENED TO TRAFFIC BY THE END OF EACH WORK PERIOD.

STEP 2C: REMOVE TRAFFIC CONTROL DEVICES FOR DETOUR AND OPEN I-240 EASTBOUND TO THE NORMAL TRAFFIC PATTERN.

REPEAT STEPS 3A, 3B AND 3C FOR AS MANY WEEKENDS AS NECESSARY TO COMPLETE THE WORK, ADHERING TO THE OVERALL CONTRACT TIME IN ADDITION TO NOTES B AND C ON SHEET TCP-2. WEEKENDS DO NOT HAVE TO BE CONSECUTIVE.

STEP 3A: INSTALL TRAFFIC CONTROL DEVICES TO IMPLEMENT I-240 EASTBOUND DETOUR #2 AND CLOSE I-240 EASTBOUND AS SHOWN ON SHEET TCP-6.

STEP 3B: CONSTRUCT BRIDGE PRESERVATION FOR BRIDGE NO.S 66, 206 AND 283.

STEP 3C: REMOVE TRAFFIC CONTROL DEVICES FOR DETOUR AND OPEN I-240 EASTBOUND TO THE NORMAL TRAFFIC PATTERN.

AREA 2 BRIDGES 208, 70, 285, AND 274 - WESTBOUND DIRECTION
SEE SHEET TCP-4 FOR OVERVIEW

STEP 1: BEGIN PREPARATION OF TRAFFIC CONTROL DEVICES FOR IMPLEMENTATION IN NEXT STEP. INSTALL CHANGEABLE MESSAGE SIGNS AS WILL BE REQUIRED FOR ROAD CLOSURES AND PUBLIC INFORMATION.

REPEAT STEPS 2A, 2B AND 2C FOR AS MANY WEEKENDS AS NECESSARY TO COMPLETE THE WORK, ADHERING TO THE OVERALL CONTRACT TIME IN ADDITION TO NOTES B AND C ON SHEET TCP-2. WEEKENDS DO NOT HAVE TO BE CONSECUTIVE.

STEP 2A: INSTALL TRAFFIC CONTROL DEVICES TO IMPLEMENT I-240 WESTBOUND DETOUR #1 AND CLOSE I-240 WESTBOUND AS SHOWN ON SHEET TCP-7, 7A.

STEP 2B: CONSTRUCT BRIDGE PRESERVATION FOR BRIDGE NO. 274 WESTBOUND DIRECTION.

WORK ON BRIDGES 208, 70, AND 285 WESTBOUND MAY BE PERFORMED DURING THIS DETOUR; HOWEVER, ANY WORK THAT IS BEGUN MUST BE COMPLETED SUCH THAT ALL LANES ARE REOPENED TO TRAFFIC BY THE END OF EACH WORK PERIOD.

STEP 2C: REMOVE TRAFFIC CONTROL DEVICES FOR DETOUR AND OPEN I-240 WESTBOUND TO THE NORMAL TRAFFIC PATTERN.


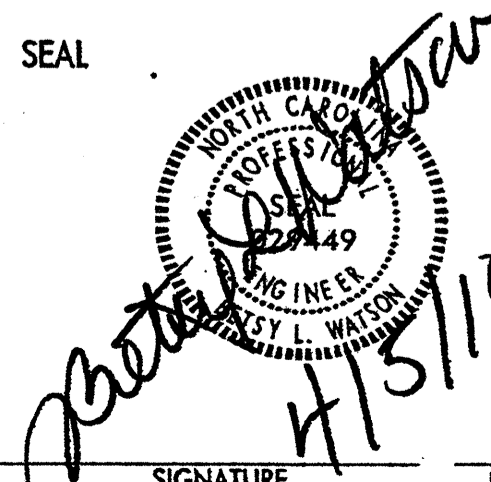
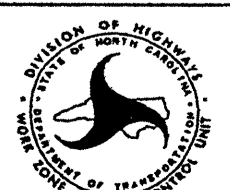
REPEAT STEPS 3A, 3B AND 3C FOR AS MANY WEEKENDS AS NECESSARY TO COMPLETE THE WORK, ADHERING TO THE OVERALL CONTRACT TIME IN ADDITION TO NOTES B AND C ON SHEET TCP-2. WEEKENDS DO NOT HAVE TO BE CONSECUTIVE.

STEP 3A: INSTALL TRAFFIC CONTROL DEVICES TO IMPLEMENT I-240 WESTBOUND DETOUR #2 AND CLOSE I-240 WESTBOUND AS SHOWN ON SHEET TCP-8.

STEP 3B: CONSTRUCT BRIDGE PRESERVATION FOR BRIDGE NO.S 208, 70 AND 285.

STEP 3C: REMOVE TRAFFIC CONTROL DEVICES FOR DETOUR AND OPEN I-240 WESTBOUND TO THE NORMAL TRAFFIC PATTERN.

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 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27605 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com	SEAL  SIGNATURE	TRAFFIC CONTROL PHASING AREA 1 AND AREA 2								
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- AREA 1 - BRIDGES #283, 66, 206 AND 274 ON I-240 EASTBOUND
- AREA 2 - BRIDGES #285, 70, 208 AND 274 ON I-240 WESTBOUND
- AREA 3 - BRIDGE #439 I-240 WESTBOUND
- AREA 4 - BRIDGE #454 I-240 EASTBOUND

THE FOLLOWING RESTRICTIONS APPLY TO WORK PERFORMED IN THESE AREAS.

- WHEN WORKING IN AREA 1 DO NOT WORK IN ANY OTHER AREAS.
- WHEN WORKING IN AREA 2 DO NOT WORK IN ANY OTHER AREAS.
- WORK IN AREAS 3 AND 4 MAY BE PERFORMED SIMULTANEOUSLY.
- INSTALL WORK ZONE ADVANCE WARNING SIGNS PRIOR TO ANY CONSTRUCTION OPERATIONS (TCP-11).

AREA 3 BRIDGE 439 SEE SHEET TCP-4 FOR OVERVIEW

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF AREA 3-STEPS 1 THROUGH 7 IN A CONTINUOUS OPERATION WITHIN A PERIOD OF 9.5 CALENDAR DAYS BETWEEN THE HOURS OF FRIDAY 6:30 P.M. AND MONDAY AT 6:30 A.M..

STAGE 1 CONSTRUCTION BRIDGE 439

- STEP 1: CLOSE RAMP CONNECTING TUNNEL RD. TO I-240 WESTBOUND AS SHOWN ON SHEET TCP-9A.
- STEP 2: CLOSE I-240 WESTBOUND LEFT LANE (RSD 1101.02 SHEET 3 OF 9) AND SHIFT TRAFFIC TO A SINGLE LEFT LANE AS SHOWN ON SHEET TCP-9 STAGE 1 CONSTRUCTION.
- STEP 3: BEHIND LANE CLOSURE INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHION.
- STEP 4: BEHIND PORTABLE CONCRETE BARRIER CONSTRUCT STAGE 1 OF THE BRIDGE RIGHT SIDE PRESERVATION.
- STEP 5: UPON COMPLETION OF STAGE 1 REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHION.
- STEP 6: REMOVE TRAFFIC CONTROL DEVICES ON I-240 WESTBOUND AND RESTORE TO NORMAL TRAFFIC PATTERN.
- STEP 7: REMOVE CLOSURE AND RE-OPEN RAMP CONNECTOR FROM TUNNEL RD. TO I-240 WESTBOUND.

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF AREA 3-STEPS 8 THROUGH 14 IN A CONTINUOUS OPERATION WITHIN A PERIOD OF 9.5 CALENDAR DAYS BETWEEN THE HOURS OF FRIDAY 6:30 P.M. AND MONDAY AT 6:30 A.M..

STAGE 2 CONSTRUCTION BRIDGE 439

- STEP 8: CLOSE RAMP CONNECTING TUNNEL RD. TO I-240 WESTBOUND AS SHOWN ON SHEET TCP-9A.
- STEP 9: CLOSE I-240 WESTBOUND LEFT LANE (RSD 1101.02 SHEET 3 OF 9) AND PLACE TRAFFIC IN A SINGLE RIGHT LANE AS SHOWN ON SHEET TCP-9 STAGE 2 CONSTRUCTION.
- STEP 10: BEHIND LANE CLOSURE INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHION.
- STEP 11: BEHIND PORTABLE CONCRETE BARRIER CONSTRUCT STAGE 2 OF THE BRIDGE LEFT SIDE PRESERVATION.
- STEP 12: UPON COMPLETION OF STAGE 2 REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHION.
- STEP 13: REMOVE TRAFFIC CONTROL DEVICES ON I-240 WESTBOUND AND RESTORE TO NORMAL TRAFFIC PATTERN.
- STEP 14: REMOVE CLOSURE AND RE-OPEN RAMP CONNECTOR FROM TUNNEL RD. TO I-240 WESTBOUND.

AREA 4 BRIDGE 454 SEE SHEET TCP-4 FOR OVERVIEW

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF AREA 4-STEPS 1 THROUGH 7 IN A CONTINUOUS OPERATION WITHIN A PERIOD OF 9.5 CALENDAR DAYS BETWEEN THE HOURS OF FRIDAY 6:30 P.M. AND MONDAY AT 6:30 A.M..

STAGE 1 CONSTRUCTION BRIDGE 454

- STEP 1: CLOSE RAMP CONNECTING CHUNNS COVE RD. TO I-240 EASTBOUND AS SHOWN ON SHEET TCP-10A.
- STEP 2: CLOSE I-240 EASTBOUND LEFT TWO LANES AS SHOWN ON STAGE 1 CONSTRUCTION SHEET TCP-10 (RSD 1101.02 SHEET 5 OF 9).
- STEP 3: BEHIND LANE CLOSURE INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHION (TCP-10).
- STEP 4: BEHIND PORTABLE CONCRETE BARRIER CONSTRUCT STAGE 1 OF THE BRIDGE LEFT SIDE PRESERVATION.
- STEP 5: UPON COMPLETION OF STAGE 1 REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHION.
- STEP 6: REMOVE TRAFFIC CONTROL DEVICES ON I-240 EASTBOUND AND RESTORE TO NORMAL TRAFFIC PATTERN.
- STEP 7: REMOVE CLOSURE AND RE-OPEN RAMP CONNECTING CHUNNS COVE RD. TO I-240 EASTBOUND.


INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF AREA 4-STEPS 8 THROUGH 14 IN A CONTINUOUS OPERATION WITHIN A PERIOD OF 9.5 CALENDAR DAYS BETWEEN THE HOURS OF FRIDAY 6:30 P.M. AND MONDAY AT 6:30 A.M..

STAGE 2 CONSTRUCTION BRIDGE 454

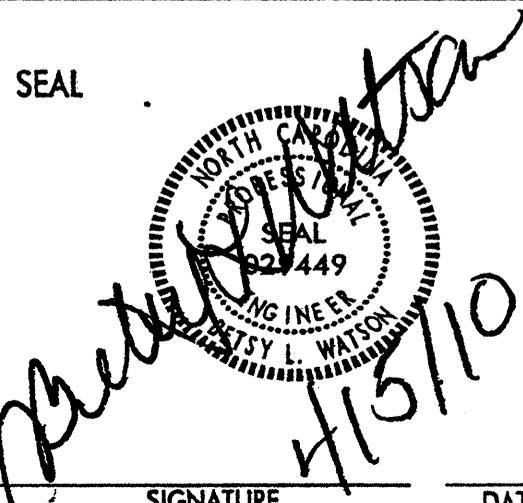
- STEP 8: CLOSE RAMP CONNECTING CHUNNS COVE RD. TO I-240 EASTBOUND AS SHOWN ON SHEET TCP-10A.
- STEP 9: CLOSE I-240 EASTBOUND LEFT TWO LANES AND SHIFT TRAFFIC TO A SINGLE LEFT LANE AS SHOWN ON STAGE 2 CONSTRUCTION SHEET TCP-10 (RSD 1101.02 SHEET 5 OF 9).
- STEP 10: BEHIND LANE CLOSURE INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHION.
- STEP 11: BEHIND PORTABLE CONCRETE BARRIER CONSTRUCT STAGE 2 OF THE BRIDGE RIGHT SIDE PRESERVATION.
- STEP 12: UPON COMPLETION OF STAGE 2 REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHION.
- STEP 13: REMOVE TRAFFIC CONTROL DEVICES ON I-240 EASTBOUND AND RESTORE TO NORMAL TRAFFIC PATTERN.
- STEP 14: REMOVE CLOSURE AND RE-OPEN RAMP CONNECTOR FROM CHUNNS COVE RD. TO I-240 EASTBOUND.

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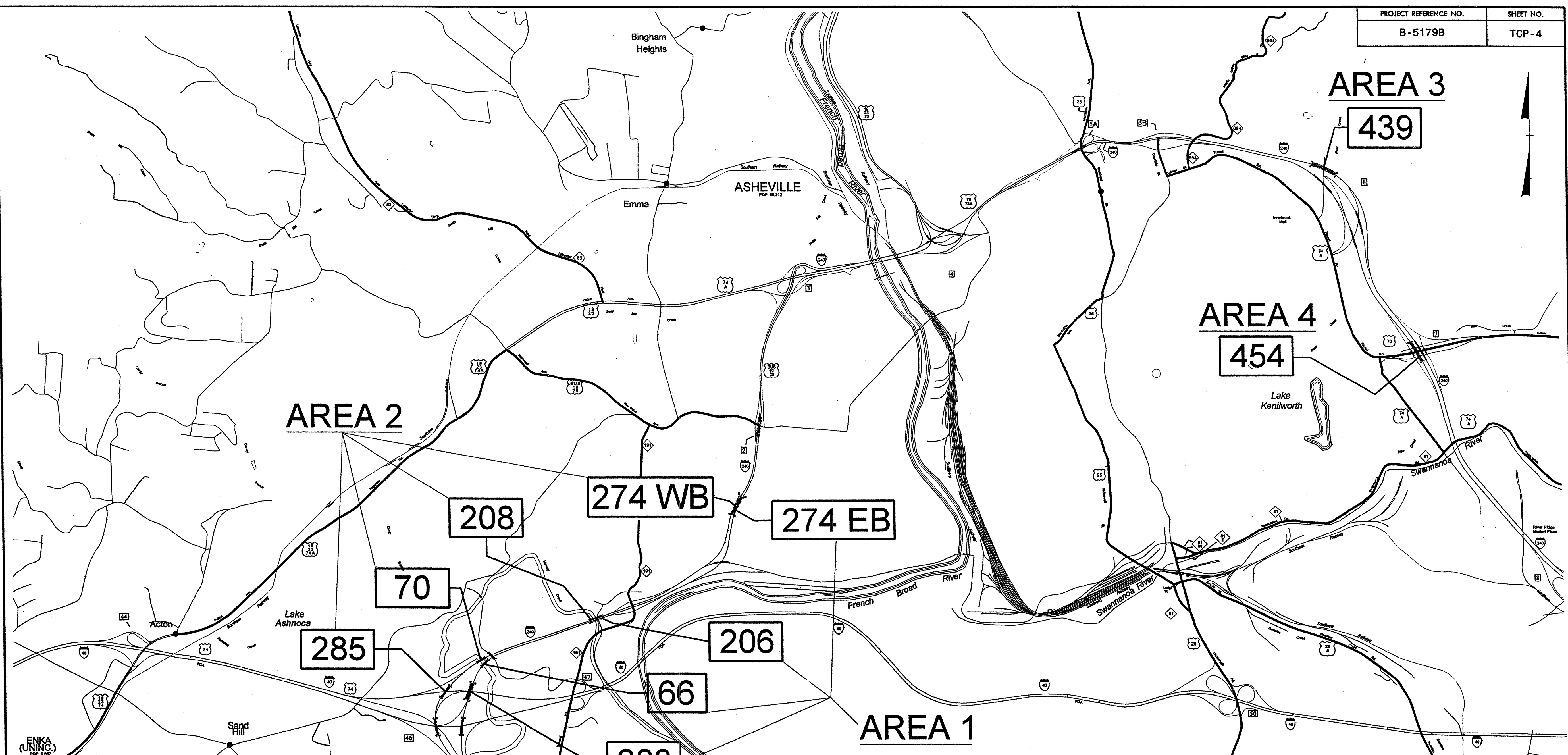
SEAL



SIGNATURE DATE

**TRAFFIC CONTROL PHASING
AREA 3 AND AREA 4**

SCALE: NONE		REVISIONS	
DATE: AUG. 2009			
DWG. BY: GK			
DESIGN BY: BLW			
REVIEWED BY: BLW			



BRIDGE #	Description
66	I-240 EB OVER HOMINY CREEK
70	I-240 WB OVER HOMINY CREEK
206	I-240 EB OVER HOMINY CREEK (NEAR S. BEAR CREEK RD.)
208	I-240 WB OVER HOMINY CREEK (NEAR S. BEAR CREEK RD.)
274	I-240 EB/WB OVER STATE STREET
283	I-26 WB/I-240 EB OVER I-40 WB
285	I-26 EB OVER I-40 WB
439	I-240 WB OVER CHUNNS COVE RD.
454	I-240 EB OVER US 70 TUNNEL RD.

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 gkarageorge

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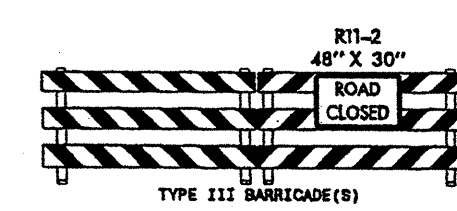
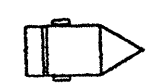


SIGNATURE: *Peter Watson*
 DATE: 10/6/09

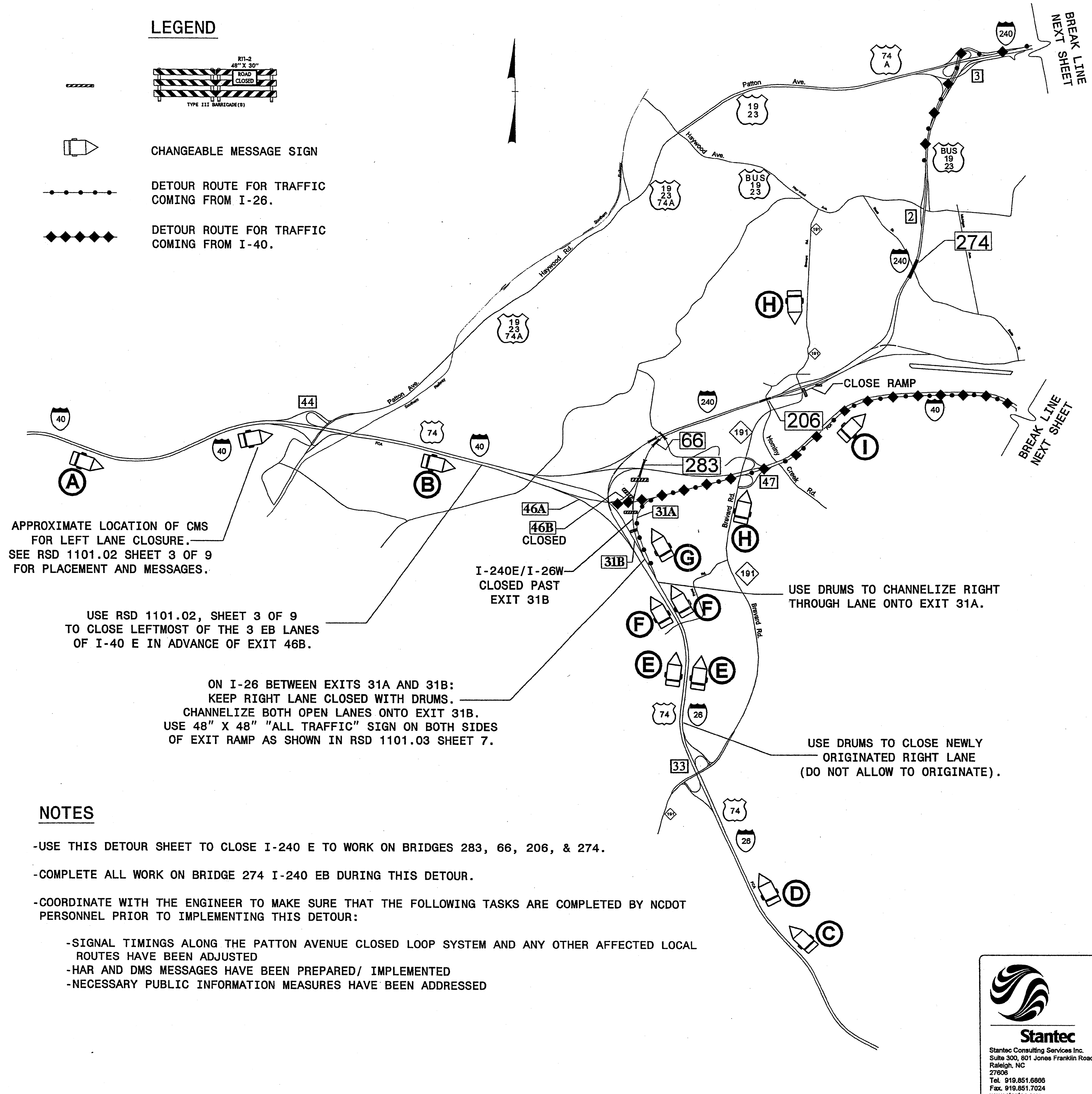
OVERVIEW AND VICINITY MAP
B-5179B

SCALE:	NONE
DATE:	AUG. 2009
DWG. BY:	GK
DESIGN BY:	BLW
REVIEWED BY:	BLW

REVISIONS

LEGEND

-  TYPE III BARRICADE(S)
-  CHANGEABLE MESSAGE SIGN
-  DETOUR ROUTE FOR TRAFFIC COMING FROM I-26.
-  DETOUR ROUTE FOR TRAFFIC COMING FROM I-40.



APPROXIMATE LOCATION OF CMS FOR LEFT LANE CLOSURE. SEE RSD 1101.02 SHEET 3 OF 9 FOR PLACEMENT AND MESSAGES.

USE RSD 1101.02, SHEET 3 OF 9 TO CLOSE LEFTMOST OF THE 3 EB LANES OF I-40 E IN ADVANCE OF EXIT 46B.

ON I-26 BETWEEN EXITS 31A AND 31B: KEEP RIGHT LANE CLOSED WITH DRUMS. CHANNELIZE BOTH OPEN LANES ONTO EXIT 31B. USE 48" X 48" "ALL TRAFFIC" SIGN ON BOTH SIDES OF EXIT RAMP AS SHOWN IN RSD 1101.03 SHEET 7.

USE DRUMS TO CHANNELIZE RIGHT THROUGH LANE ONTO EXIT 31A.

USE DRUMS TO CLOSE NEWLY ORIGINATED RIGHT LANE (DO NOT ALLOW TO ORIGINATE).

A

MESSAGE NO. 1	MESSAGE NO. 2
I-240 E/ I-26 W CLOSED	USE ALT ROUTE

CHANGEABLE MESSAGE SIGN

B

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 46B CLOSED	USE EXIT 53B

CHANGEABLE MESSAGE SIGN

C

MESSAGE NO. 1	MESSAGE NO. 2
I-240 E/ I-26 W CLOSED	2 MILES AHEAD

CHANGEABLE MESSAGE SIGN

D

MESSAGE NO. 1	MESSAGE NO. 2
RT LANE MUST USE EXIT 31A	2 MILES AHEAD

CHANGEABLE MESSAGE SIGN

E

MESSAGE NO. 1	MESSAGE NO. 2
I-240 E/ I-26 W CLOSED	USE EXIT 31A I-40 E

CHANGEABLE MESSAGE SIGN

F

MESSAGE NO. 1	MESSAGE NO. 2
RT LANE MUST USE EXIT 31A	RT LANE EXIT ONLY

CHANGEABLE MESSAGE SIGN

G*

MESSAGE NO. 1	MESSAGE NO. 2
ALL TRAFFIC	USE EXIT 31B

CHANGEABLE MESSAGE SIGN

H

MESSAGE NO. 1	MESSAGE NO. 2
I-240 E CLOSED	USE I-40E TO EXIT 53B

CHANGEABLE MESSAGE SIGN

*PLACE ALONG I-26 W AFTER EXIT 31A AND IN ADVANCE OF EXIT 31B.

I

MESSAGE NO. 1	MESSAGE NO. 2
I240 E/ I26 W TRAFFIC	USE EXIT 53B

CHANGEABLE MESSAGE SIGN

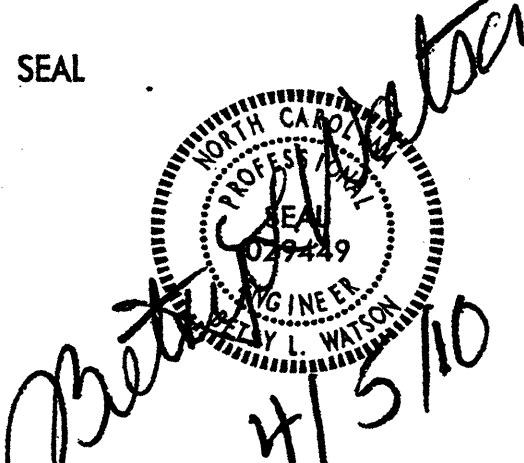
NOTES

- USE THIS DETOUR SHEET TO CLOSE I-240 E TO WORK ON BRIDGES 283, 66, 206, & 274.
- COMPLETE ALL WORK ON BRIDGE 274 I-240 EB DURING THIS DETOUR.
- COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING THIS DETOUR:
 - SIGNAL TIMINGS ALONG THE PATTON AVENUE CLOSED LOOP SYSTEM AND ANY OTHER AFFECTED LOCAL ROUTES HAVE BEEN ADJUSTED
 - HAR AND DMS MESSAGES HAVE BEEN PREPARED/ IMPLEMENTED
 - NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED



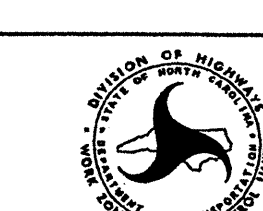
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SEAL



SIGNATURE _____ DATE _____

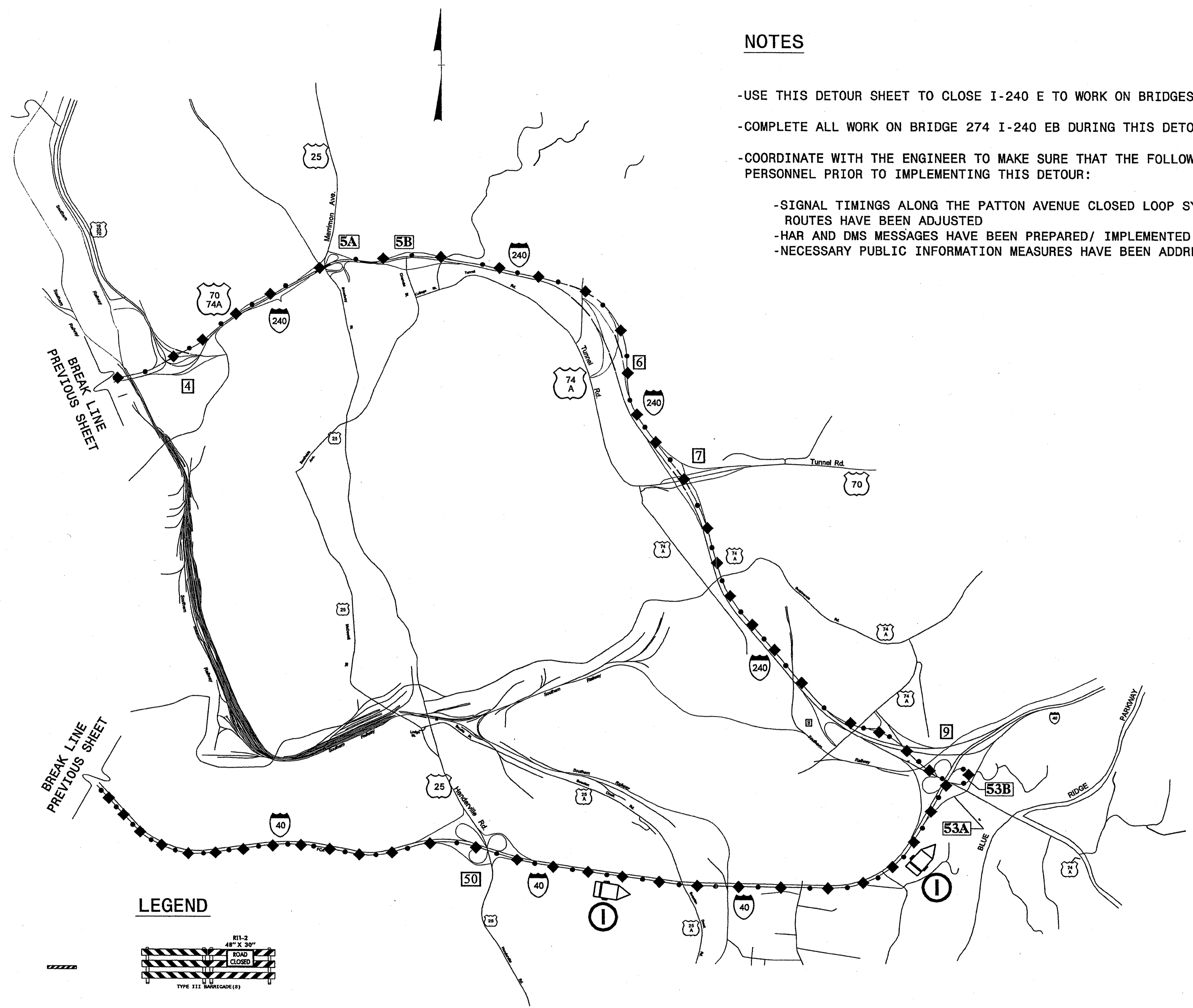
**I-240 EAST
DETOUR #1
BRIDGES 283, 206, & 274**

SCALE: NONE		REVISIONS	
DATE: AUG. 2009			
DWG. BY: GK			
DESIGN BY: BLW			
REVIEWED BY: BLW			

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NOTES

- USE THIS DETOUR SHEET TO CLOSE I-240 E TO WORK ON BRIDGES 283, 66, 206, & 274.
- COMPLETE ALL WORK ON BRIDGE 274 I-240 EB DURING THIS DETOUR.
- COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING THIS DETOUR:
 - SIGNAL TIMINGS ALONG THE PATTON AVENUE CLOSED LOOP SYSTEM AND ANY OTHER AFFECTED LOCAL ROUTES HAVE BEEN ADJUSTED
 - HAR AND DMS MESSAGES HAVE BEEN PREPARED/ IMPLEMENTED
 - NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED



MESSAGE NO. 1	MESSAGE NO. 2
I-240 E/ I-26 W TRAFFIC	USE EXIT 53B

CHANGEABLE MESSAGE SIGN

LEGEND

- R11-2 48" X 30" ROAD CLOSED TYPE III BARRIAGE(S)
- CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE FOR TRAFFIC COMING FROM I-26.
- DETOUR ROUTE FOR TRAFFIC COMING FROM I-40.

4/5/2010 Traffic Control AB-5179B TCP\PLANSHEETS\B5179B_tcp_psh_05A_240EB_detour1_sheet2.dgn blw

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E. L. Watson
4/5/10

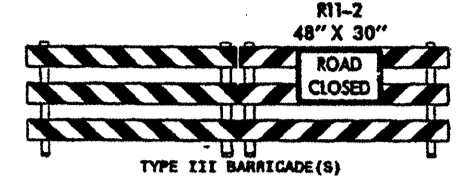
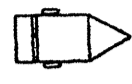


**I-240 EAST
DETOUR #1
BRIDGES 283, 66, 206, & 274**

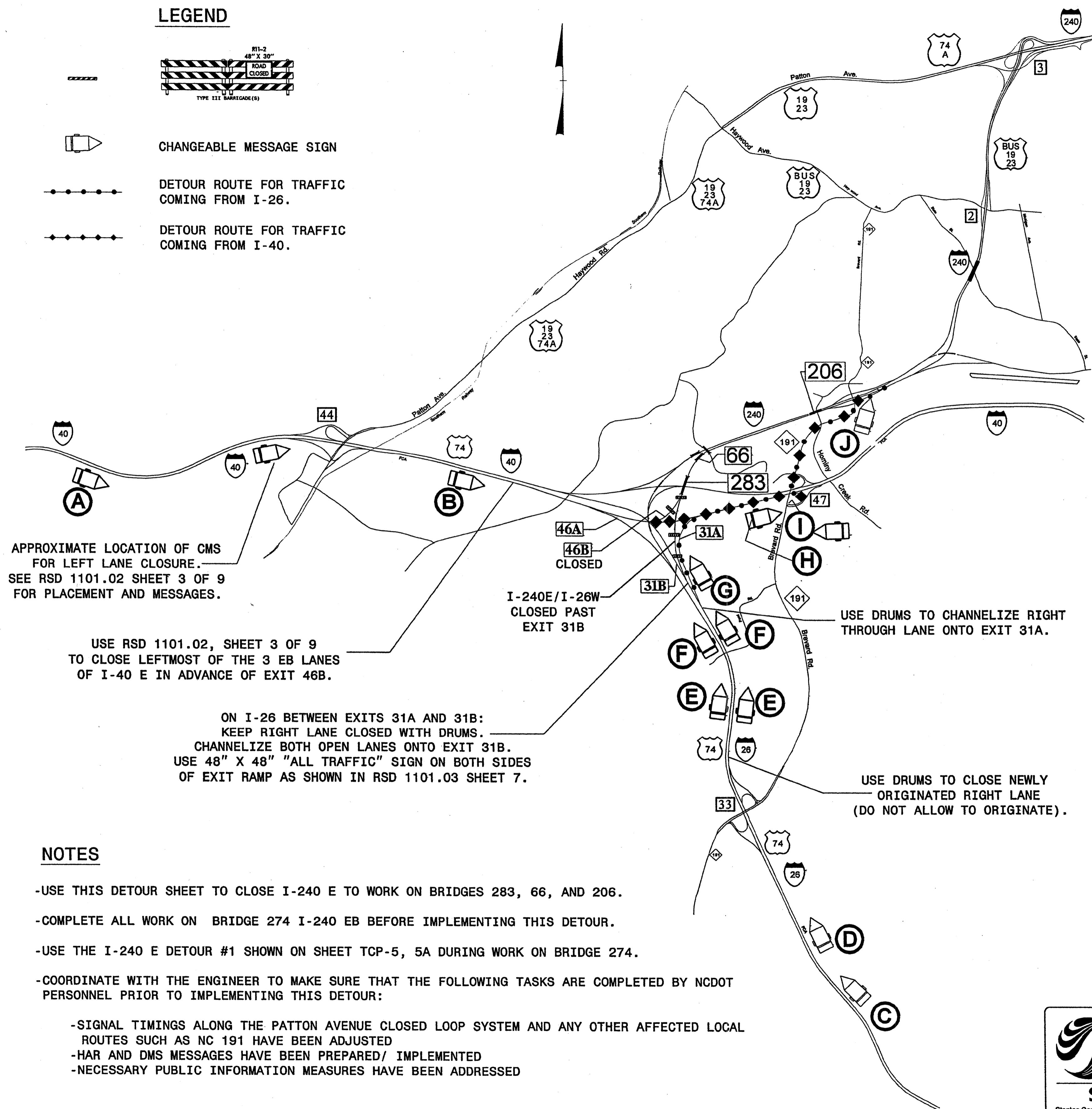
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DATE:	AUG. 2009
DWG. BY:	GK
DESIGN BY:	BLW
REVIEWED BY:	BLW

SIGNATURE _____ DATE _____

REVISIONS

LEGEND

-  TYPE III BARRICADE(S)
-  CHANGEABLE MESSAGE SIGN
-  DETOUR ROUTE FOR TRAFFIC COMING FROM I-26.
-  DETOUR ROUTE FOR TRAFFIC COMING FROM I-40.



NOTES

- USE THIS DETOUR SHEET TO CLOSE I-240 E TO WORK ON BRIDGES 283, 66, AND 206.
- COMPLETE ALL WORK ON BRIDGE 274 I-240 EB BEFORE IMPLEMENTING THIS DETOUR.
- USE THE I-240 E DETOUR #1 SHOWN ON SHEET TCP-5, 5A DURING WORK ON BRIDGE 274.
- COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING THIS DETOUR:
 - SIGNAL TIMINGS ALONG THE PATTON AVENUE CLOSED LOOP SYSTEM AND ANY OTHER AFFECTED LOCAL ROUTES SUCH AS NC 191 HAVE BEEN ADJUSTED
 - HAR AND DMS MESSAGES HAVE BEEN PREPARED/ IMPLEMENTED
 - NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED


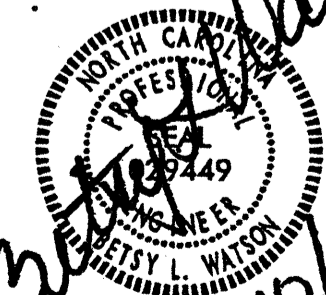

A	MESSAGE NO. 1 I-240 E/ I-26 W CLOSED	MESSAGE NO. 2 USE ALT ROUTE	B	MESSAGE NO. 1 EXIT 46B CLOSED	MESSAGE NO. 2 USE NC 191 EXIT 47
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
C	MESSAGE NO. 1 I-240 E/ I-26 W CLOSED	MESSAGE NO. 2 2 MILES AHEAD	D	MESSAGE NO. 1 RT LANE MUST USE EXIT 31A	MESSAGE NO. 2 2 MILES AHEAD
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
E	MESSAGE NO. 1 I-240 E/ I-26 W CLOSED	MESSAGE NO. 2 USE EXIT 31A I-40 E	F	MESSAGE NO. 1 RT LANE MUST USE EXIT 31A	MESSAGE NO. 2 RT LANE EXIT ONLY
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
G*	MESSAGE NO. 1 ALL TRAFFIC	MESSAGE NO. 2 USE EXIT 31B	H	MESSAGE NO. 1 TO I-240 E/ I-26 W	MESSAGE NO. 2 USE NC 191 EXIT 47
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
I*	MESSAGE NO. 1 TO I240E TO I26W ----->	MESSAGE NO. 2 TURN RIGHT HERE	J*	MESSAGE NO. 1 I-240 E I-26 W ----->	MESSAGE NO. 2 TURN RIGHT HERE
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	

*PLACE ALONG I-26 W AFTER EXIT 31A AND IN ADVANCE OF EXIT 31B.

*PLACE AT TOP OF EXIT LOOP TO INSTRUCT DETOURED TRAFFIC TO TURN RIGHT ON NC 191.

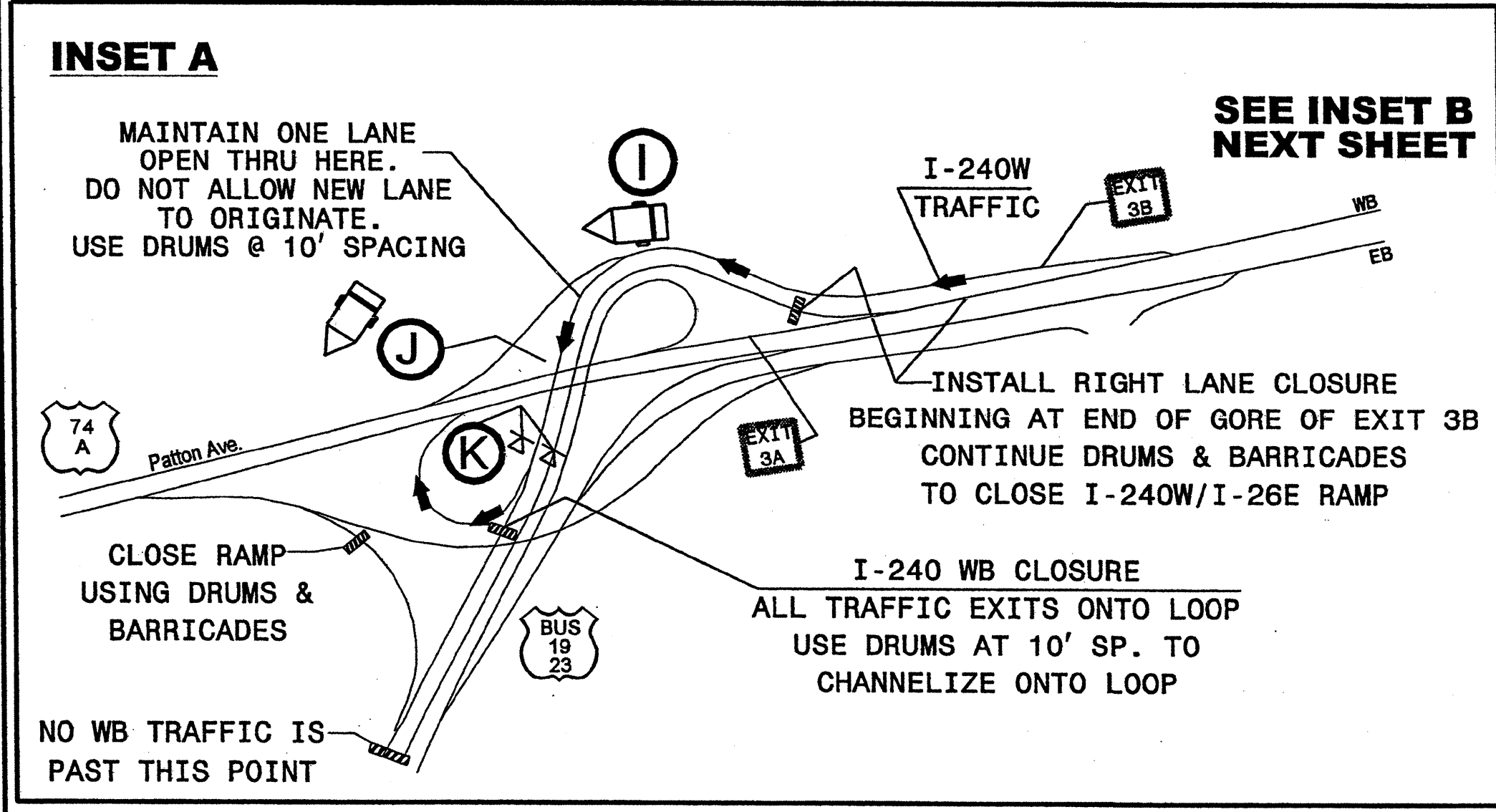
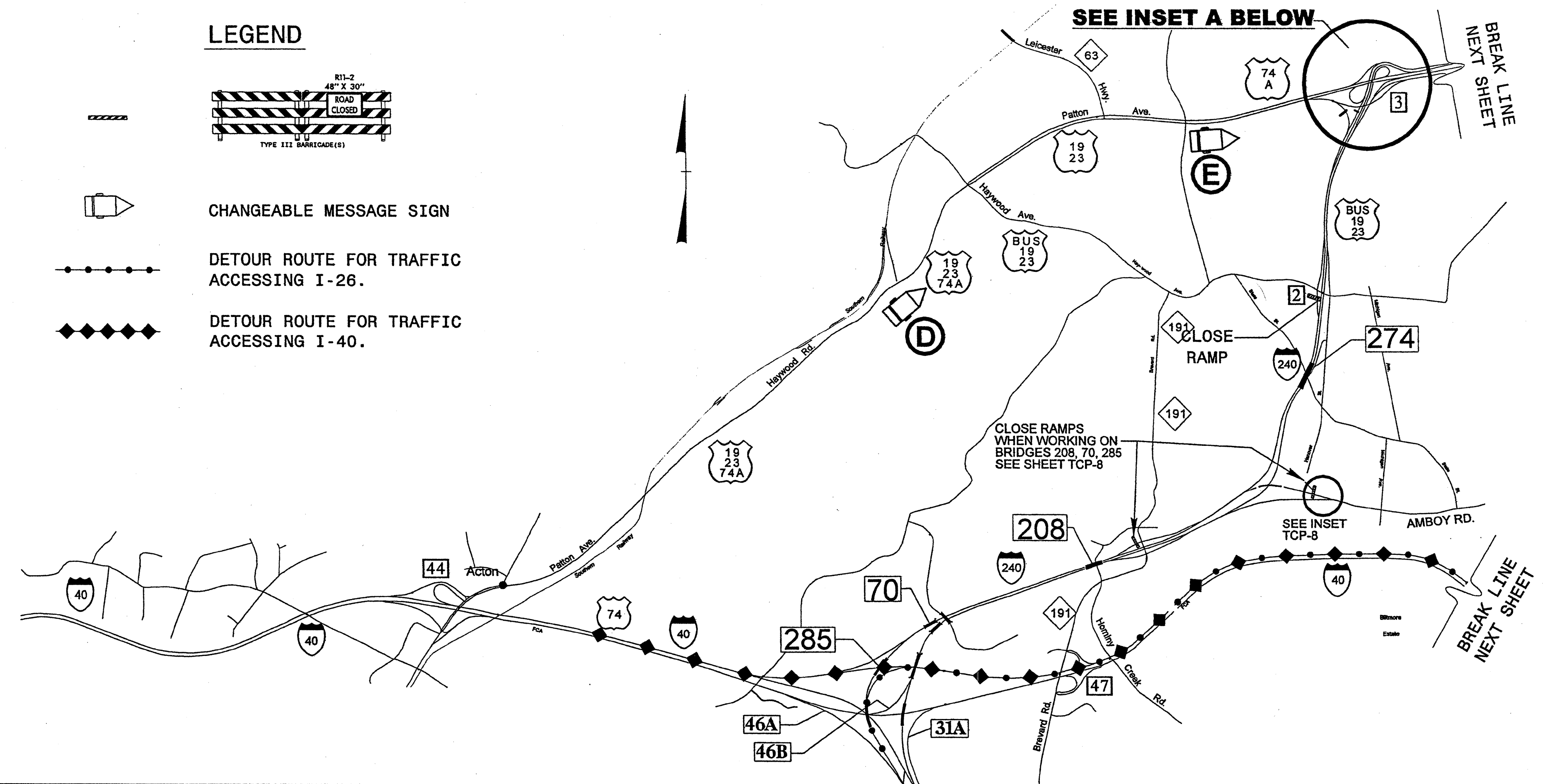
*THIS SIGN MAY BE ELIMINATED AT THE DISCRETION OF THE ENGINEER SINCE JUNCTION IS SIGNED ALREADY.

10/2/2009
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 gfr:george

 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6868 Fax: 919.851.7024 www.stantec.com	SEAL  10/6/09	I-240 EAST DETOUR #2 BRIDGES 283, 66 & 206							
	SCALE: NONE DATE: AUG. 2009 DWG. BY: GK DESIGN BY: BLW REVIEWED BY: BLW		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						

LEGEND

- TYPE III BARRICADE(S)
- CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE FOR TRAFFIC ACCESSING I-26.
- DETOUR ROUTE FOR TRAFFIC ACCESSING I-40.



NOTES

- USE THIS DETOUR SHEET TO CLOSE I-240 W TO WORK ON BRIDGES 285, 70, 208, & 274.
- COMPLETE ALL WORK ON BRIDGE 274 I-240 WB DURING THIS DETOUR.
- COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING THIS DETOUR:
 - SIGNAL TIMINGS ALONG THE PATTON AVENUE CLOSED LOOP SYSTEM AND ANY OTHER AFFECTED LOCAL ROUTES HAVE BEEN ADJUSTED
 - HAR AND DMS MESSAGES HAVE BEEN PREPARED/ IMPLEMENTED
 - NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED

(A)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W CLOSED AHEAD	USE I-240 E TO I-40W
CHANGEABLE MESSAGE SIGN	

(B)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W CLOSED	USE I-240 E TO I-40W
CHANGEABLE MESSAGE SIGN	

(C)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W DETOURED TRAFFIC	USE EXIT 9 I-40 W
CHANGEABLE MESSAGE SIGN	

(D)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W CLOSED AHEAD	USE ALT ROUTE
CHANGEABLE MESSAGE SIGN	

(E)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W CLOSED AHEAD	USE I-240 E TO I-40W
CHANGEABLE MESSAGE SIGN	

(F)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W DETOURED TRAFFIC	USE I-240 E TO I-40W
CHANGEABLE MESSAGE SIGN	

(G)*

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W CLOSED	PAST PATTON AVENUE
CHANGEABLE MESSAGE SIGN	

(H)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W CLOSED	USE EXIT 3B
CHANGEABLE MESSAGE SIGN	

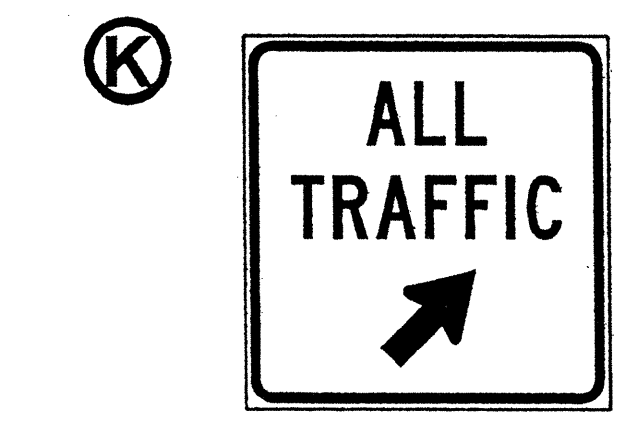
*PLACE SIGN (G) ALONG ROUTES HAVING AN INTERCHANGE WITH I-240 AS DIRECTED BY THE ENGINEER.

(I)

MESSAGE NO. 1	MESSAGE NO. 2
I-240 W KEEP LEFT	CAUTION REDUCE SPEED
CHANGEABLE MESSAGE SIGN	

(J)

MESSAGE NO. 1	MESSAGE NO. 2
ALL TRAFFIC EXIT	REDUCE SPEED
CHANGEABLE MESSAGE SIGN	



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Gregory S. Watson
4/5/10

SIGNATURE DATE

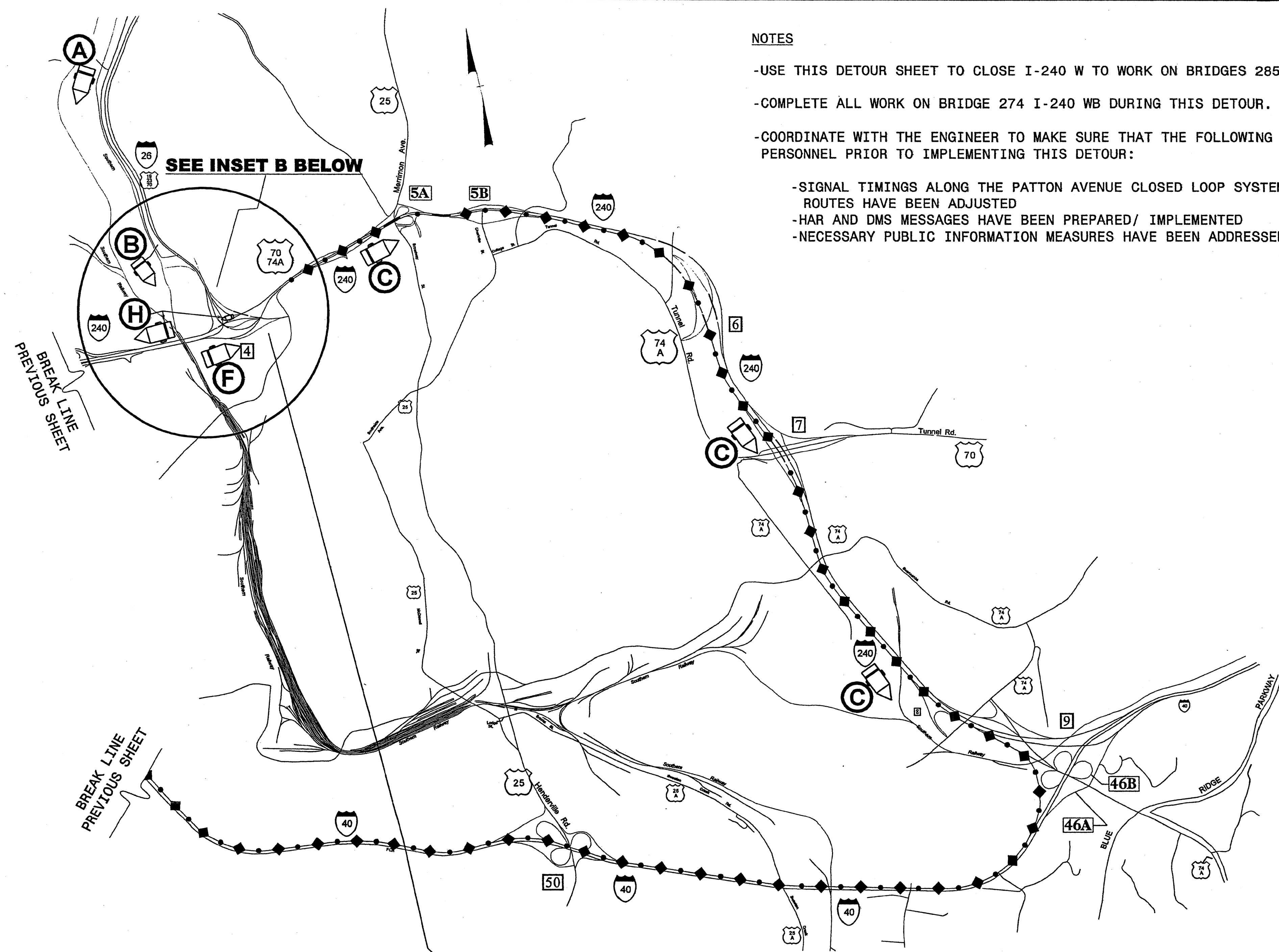
**I-240 WEST
DETOUR #1
BRIDGES 285, 70, 208, & 274**

SCALE: NONE		REVISIONS
DATE: AUG. 2009		
DWG. BY: GK		
DESIGN BY: BLW		
REVIEWED BY: BLW		

CADD FILE

NOTES

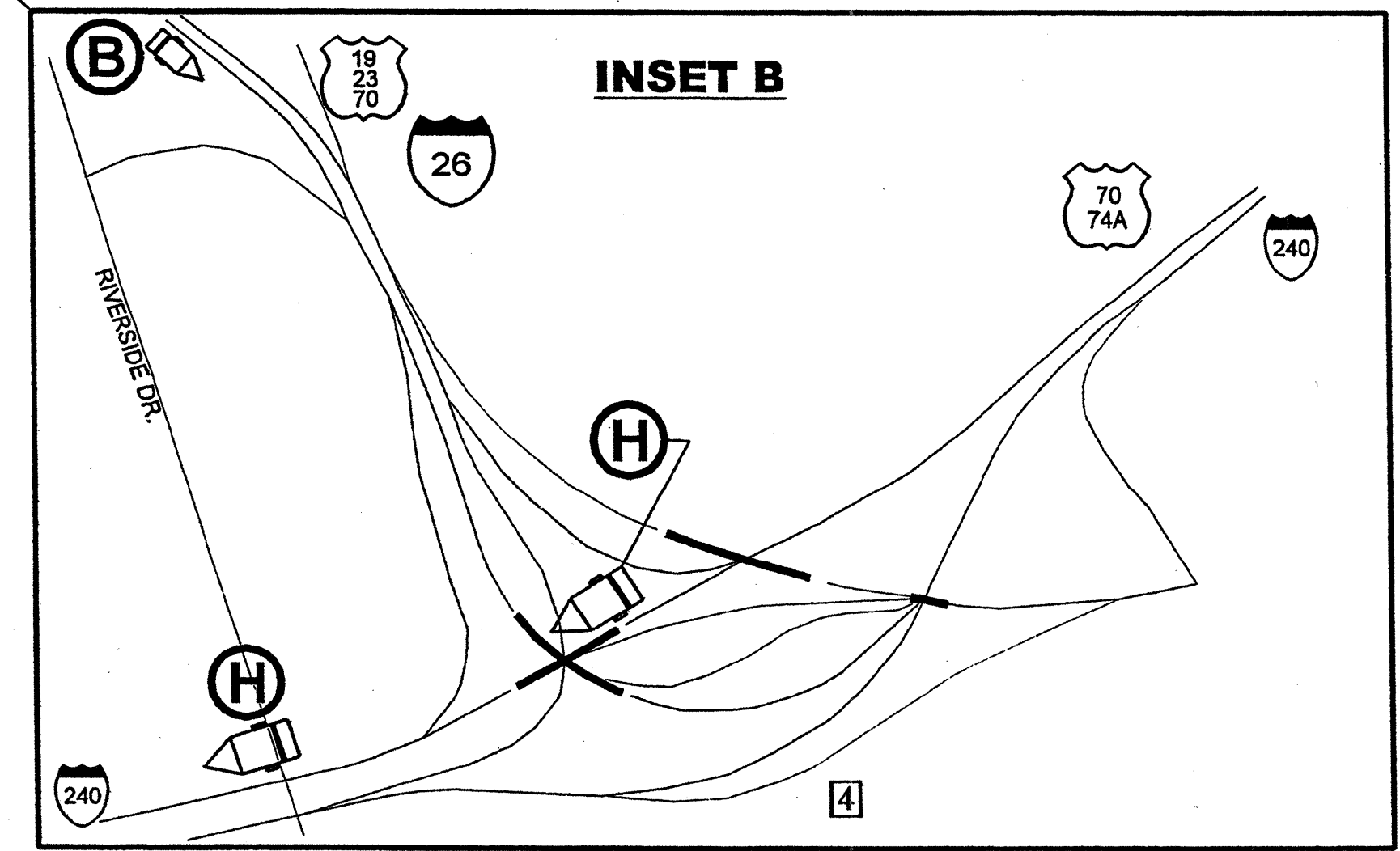
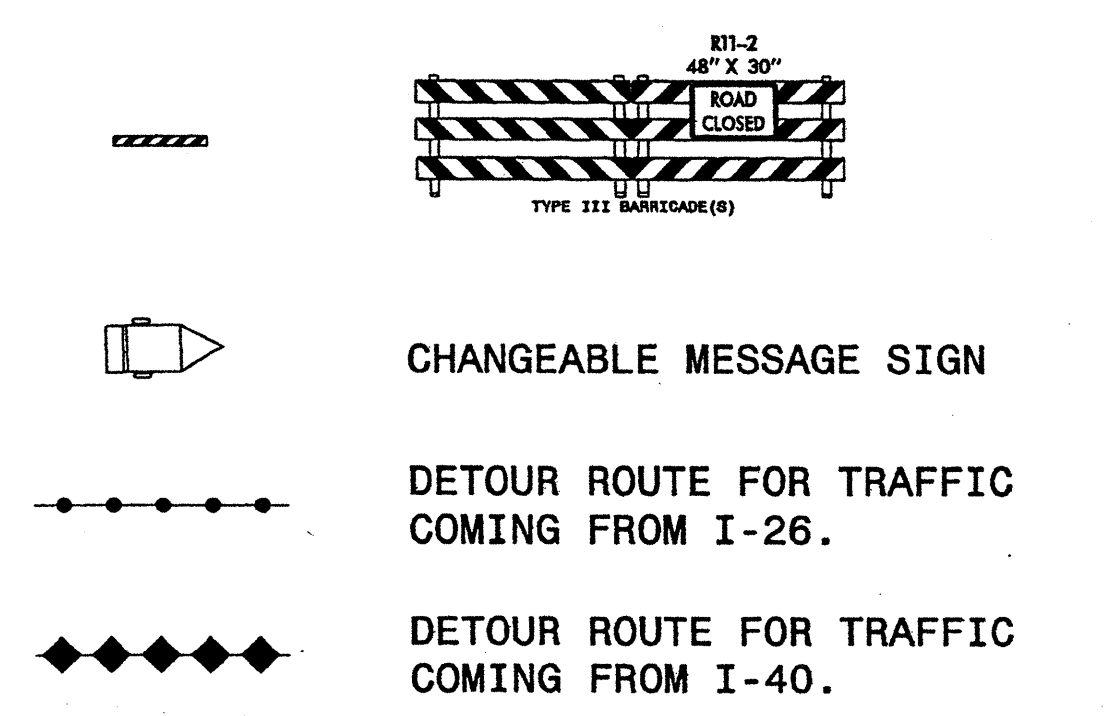
- USE THIS DETOUR SHEET TO CLOSE I-240 W TO WORK ON BRIDGES 285, 70, 208, & 274.
- COMPLETE ALL WORK ON BRIDGE 274 I-240 WB DURING THIS DETOUR.
- COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING THIS DETOUR:
 - SIGNAL TIMINGS ALONG THE PATTON AVENUE CLOSED LOOP SYSTEM AND ANY OTHER AFFECTED LOCAL ROUTES HAVE BEEN ADJUSTED
 - HAR AND DMS MESSAGES HAVE BEEN PREPARED/ IMPLEMENTED
 - NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED



A	MESSAGE NO. 1	MESSAGE NO. 2	B	MESSAGE NO. 1	MESSAGE NO. 2
	I-240 W CLOSED AHEAD	USE I-240 E TO I-40W		I-240 W CLOSED AHEAD	USE I-240 E TO I-40W
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
C	MESSAGE NO. 1	MESSAGE NO. 2	D	MESSAGE NO. 1	MESSAGE NO. 2
	I-240 W DETOURED TRAFFIC	USE EXIT 9 I-40 W		I-240 W CLOSED AHEAD	USE ALT ROUTE
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
E	MESSAGE NO. 1	MESSAGE NO. 2	F	MESSAGE NO. 1	MESSAGE NO. 2
	I-240 W CLOSED AHEAD	USE I-240 E TO I-40W		I-240 W DETOURED TRAFFIC	USE I-240 E TO I-40W
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
G*	MESSAGE NO. 1	MESSAGE NO. 2	H	MESSAGE NO. 1	MESSAGE NO. 2
	I-240 W CLOSED	PAST PATTON AVENUE		I-240 W CLOSED	USE EXIT 3B
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

*PLACE SIGN (G) ALONG ROUTES HAVING AN INTERCHANGE WITH I-240 AS DIRECTED BY THE ENGINEER.

LEGEND



SEAL

SIGNATURE: *Michael Watson* DATE: _____

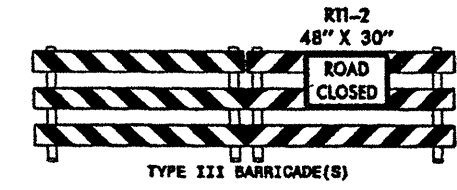



**I-240 WEST
DETOUR #1
BRIDGES 285, 70, 208, & 274**

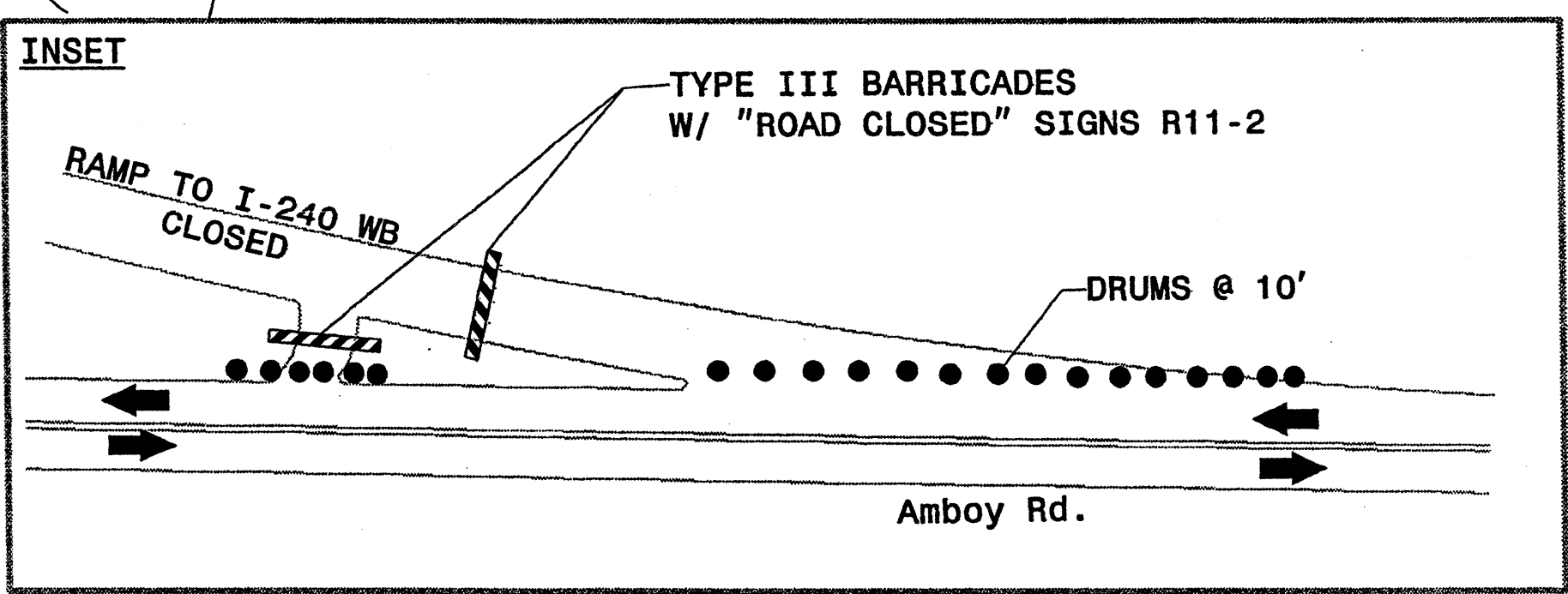
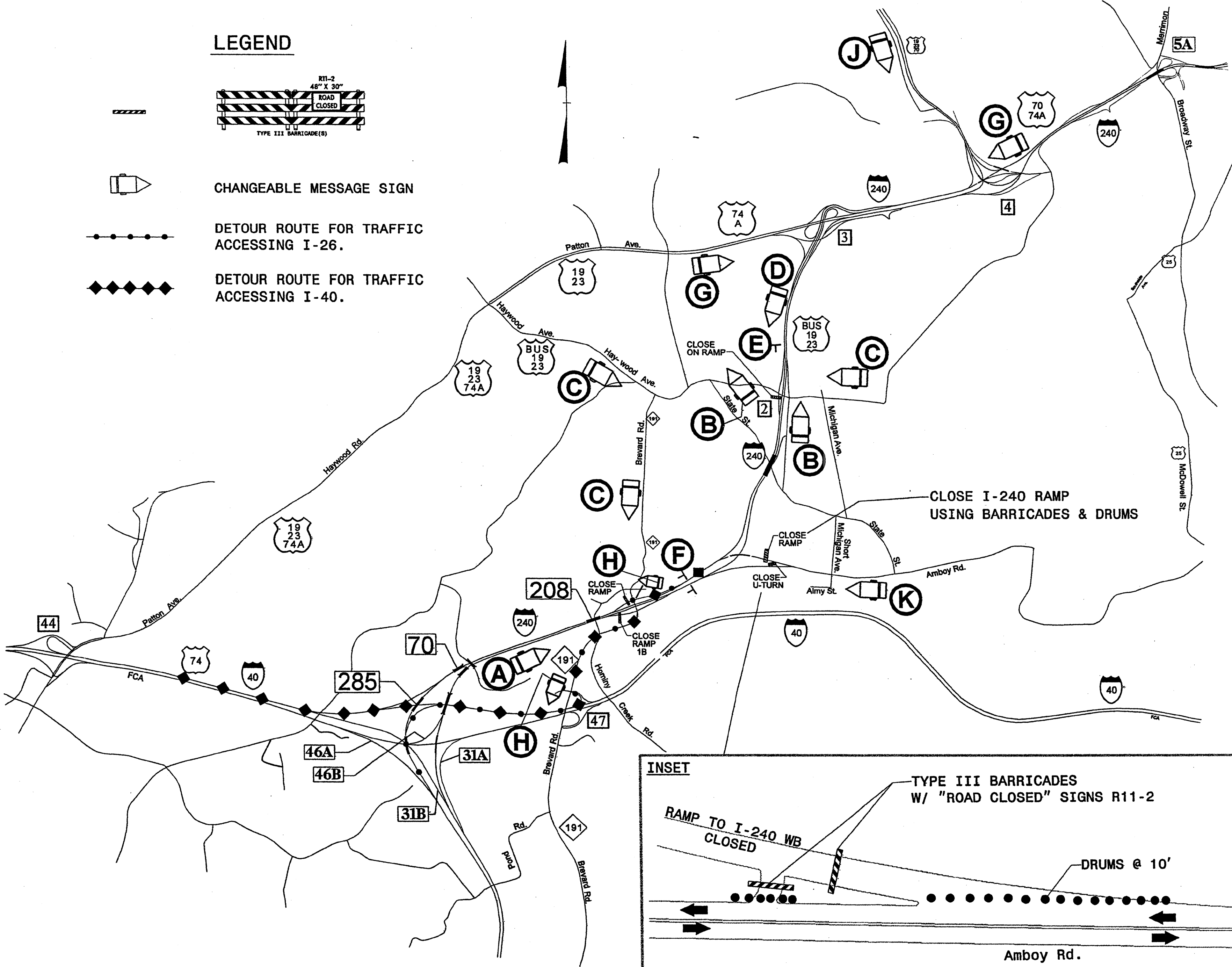
SCALE: NONE	REVISIONS
DATE: AUG. 2009	
DWG. BY: GK	
DESIGN BY: BLW	
REVIEWED BY: BLW	

CADD FILE

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 blw@stantec.com

LEGEND

-  TYPE III BARRICADE(S)
-  CHANGEABLE MESSAGE SIGN
-  DETOUR ROUTE FOR TRAFFIC ACCESSING I-26.
-  DETOUR ROUTE FOR TRAFFIC ACCESSING I-40.


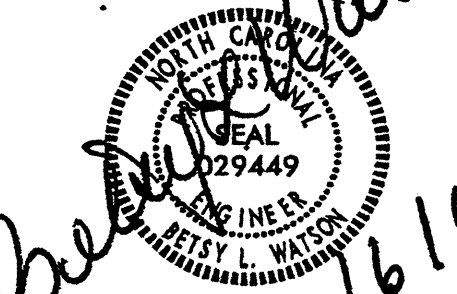



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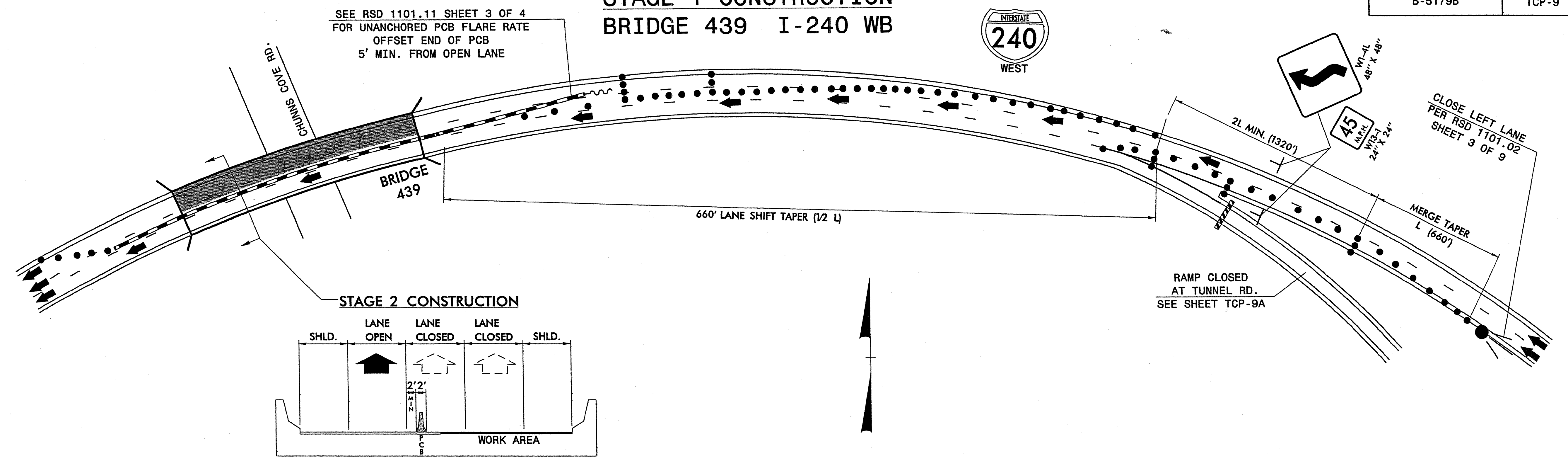
- USE THIS DETOUR SHEET TO CLOSE I-240 W TO WORK ON BRIDGES 285, 70, AND 208.
- COMPLETE ALL WORK ON BRIDGE 274 I-240 WB BEFORE IMPLEMENTING THIS DETOUR.
- USE THE I-240 W DETOUR #1 SHOWN ON SHEETS TCP-7, 7A DURING WORK ON BRIDGE 274.
- USE RSD 1101.03 SHEET 7 OF 9 TO CLOSE I-240 WB AT EXIT 1B (NC 191). CMS (D), AND SIGNS (E) AND (F) ARE SHOWN FOR REPRESENTATION PURPOSES. ALL OTHER SIGNS, DEVICES, AND NOTES ON RSD 1101.03 SHEET 7 ALSO APPLY.
- COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE FOLLOWING TASKS ARE COMPLETED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING THIS DETOUR:
 - SIGNAL TIMINGS ALONG THE PATTON AVENUE CLOSED LOOP SYSTEM AND ANY OTHER AFFECTED LOCAL ROUTES SUCH AS NC 191 HAVE BEEN ADJUSTED
 - HAR AND DMS MESSAGES HAVE BEEN PREPARED/ IMPLEMENTED
 - NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED

A	MESSAGE NO. 1 EXIT 1B CLOSED	MESSAGE NO. 2 USE EXIT 2	B	MESSAGE NO. 1 TO NC 191 ←---	MESSAGE NO. 2
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
C	MESSAGE NO. 1 I-240 W/ I-26 E CLOSED	MESSAGE NO. 2 USE NC191 TO I-40 W	D	MESSAGE NO. 1 ROAD CLOSED AHEAD	MESSAGE NO. 2 ALL TRAFFIC EXIT
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
E	ALL TRAFFIC EXIT 2 MILES		F	ALL TRAFFIC ↑	
	G21-60 120" X 48" (DUAL MOUNTED)			SP03355 48" X 48" DUAL MOUNTED	
G	MESSAGE NO. 1 I-240 W CLOSED AT NC191	MESSAGE NO. 2 USE ALT ROUTE	H	MESSAGE NO. 1 TO I240W TO I26 E ←-----	MESSAGE NO. 2 TURN LEFT HERE
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
I	MESSAGE NO. 1 I-240 W I-26 E ←-----	MESSAGE NO. 2 TURN LEFT HERE	J	MESSAGE NO. 1 240W/26E CLOSED AT NC191	MESSAGE NO. 2 USE ALT ROUTE
	CHANGEABLE MESSAGE SIGN			CHANGEABLE MESSAGE SIGN	
K	MESSAGE NO. 1 I-240 RAMP CLOSED	MESSAGE NO. 2 USE ALT ROUTE			
	CHANGEABLE MESSAGE SIGN				

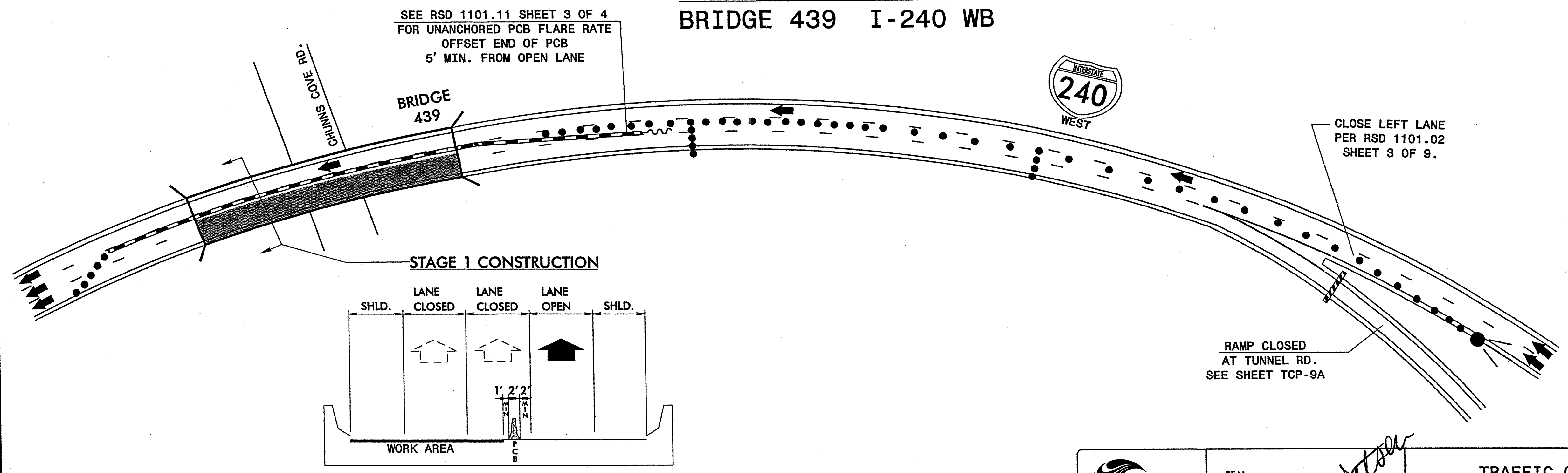
10/2/2009 10:02:00 AM \\tr-off-c\tr\ref\control\B-5179b_tcp\plansheets\B5179b_tcp-ps1_08-240WB_detour2.dgn gk-arageorge

 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27605 Tel: 919.851.8868 Fax: 919.851.7024 www.stantec.com	SEAL  10/6/09	I-240 WEST DETOUR #2 BRIDGES 285, 70, & 208	SCALE: NONE DATE: AUG. 2009 DWG. BY: GK DESIGN BY: BLW REVIEWED BY: BLW	REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
SIGNATURE _____ DATE _____			CADD FILE							

STAGE 1 CONSTRUCTION BRIDGE 439 I-240 WB



STAGE 2 CONSTRUCTION BRIDGE 439 I-240 WB



10/2/2009
 design\trcf\10122009\tcpcontrol\B-5179b_tcp.plansheets\B5179B_tcp_psh_09_439.dgn
 gharageorge

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SEAL

Beth Watson
 10/6/09

SIGNATURE DATE

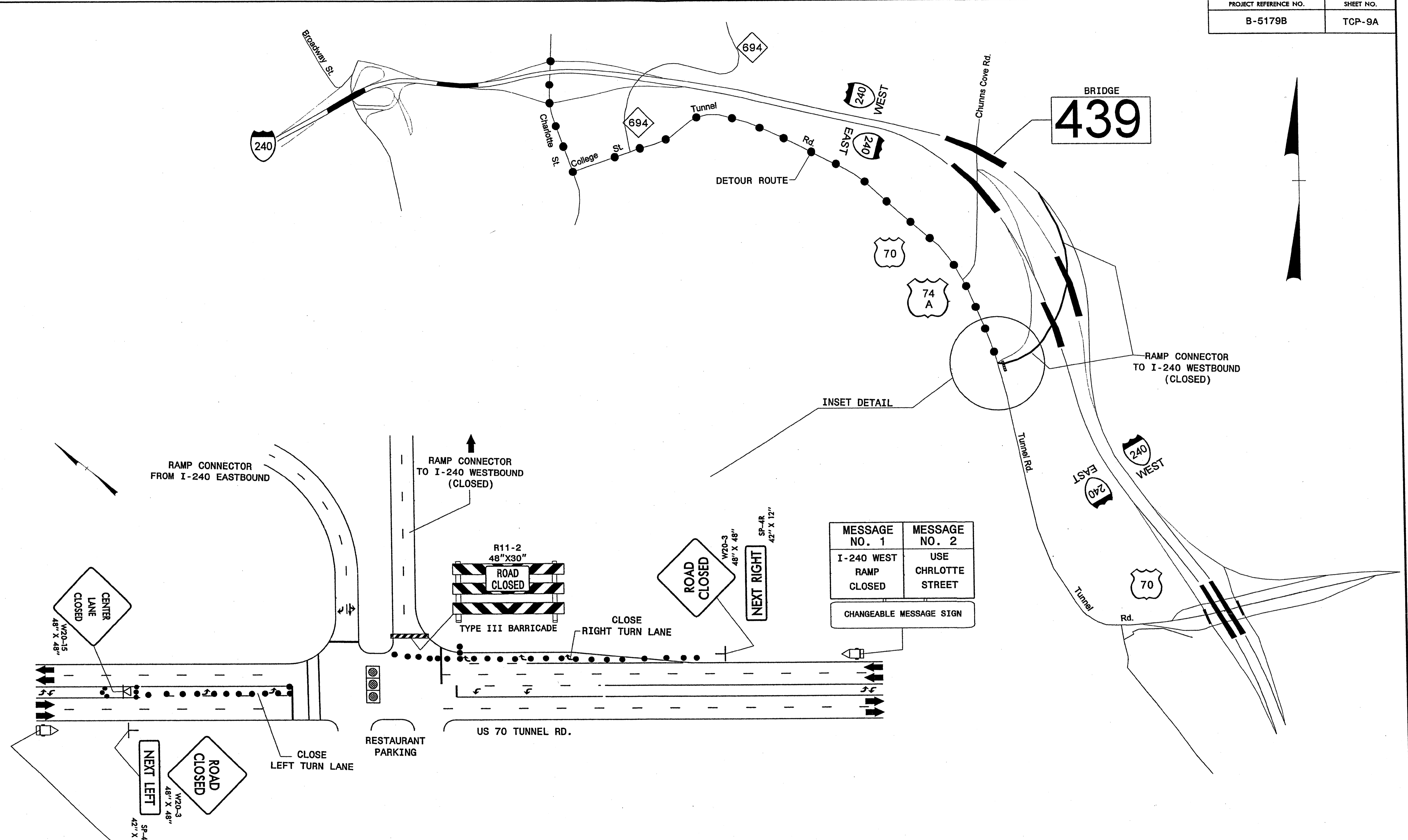
TRAFFIC CONTROL FOR
 AREA 3 - BRIDGE #439
 I-240 WESTBOUND

SCALE:	NONE
DATE:	AUG. 2009
DWG. BY:	GK
DESIGN BY:	BLW
REVIEWED BY:	BLW

REVISIONS

CARD FILE

I:\2009\11-5179B TCP\PLANSHEETS\B5179B.tcp.psh.09A_439_RAMP_CL.DSURE.dgn
 8/11/09 10:00 AM
 gfr



MESSAGE NO. 1	MESSAGE NO. 2
I-240 WEST RAMP CLOSED	USE NEXT ACCESS 1 MILE
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
I-240 WEST RAMP CLOSED	USE CHLOTTE STREET
CHANGEABLE MESSAGE SIGN	

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Signature: *Robert J. Watson*
 Date: 10/6/09

TRAFFIC CONTROL FOR CLOSURE OF RAMP CONNECTOR FROM TUNNEL RD TO I-240 WESTBOUND DURING AREA 3 - BRIDGE #439 WORK.

SCALE:	NONE
DATE:	AUG. 2009
DWG. BY:	GK
DESIGN BY:	BLW
REVIEWED BY:	BLW

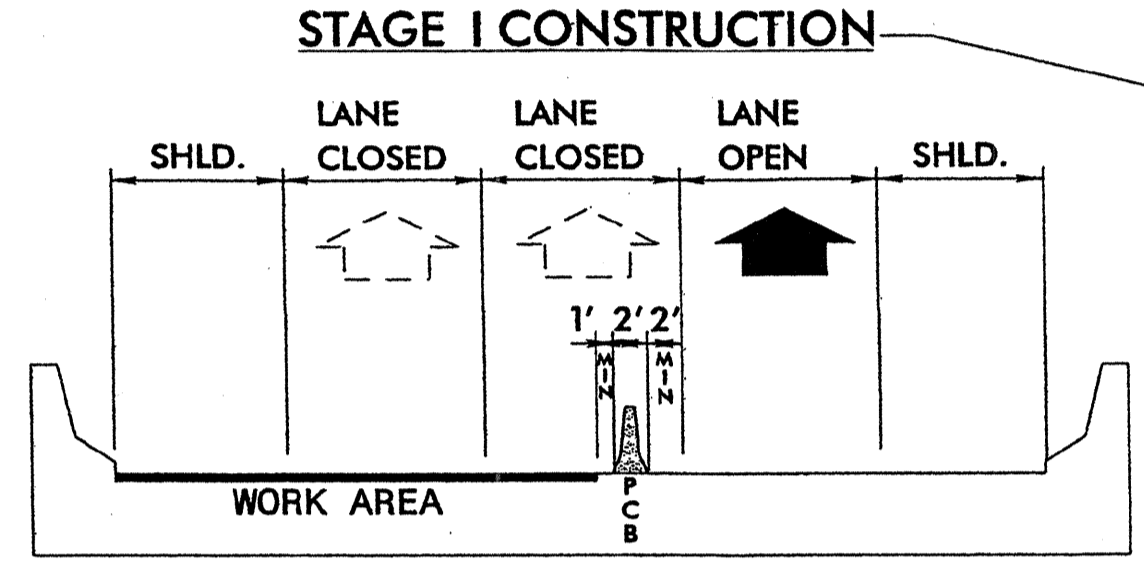
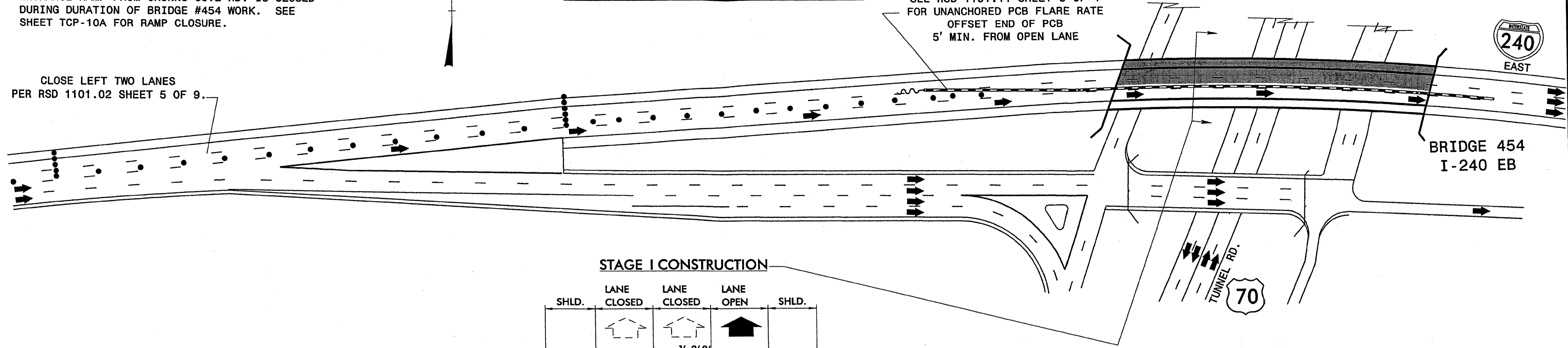
REVISIONS

STAGE 1 CONSTRUCTION BRIDGE 454 I-240 EB

NOTE:
ENTRANCE RAMP FROM CHUNNS COVE RD. IS CLOSED
DURING DURATION OF BRIDGE #454 WORK. SEE
SHEET TCP-10A FOR RAMP CLOSURE.

SEE RSD 1101.11 SHEET 3 OF 4
FOR UNANCHORED PCB FLARE RATE
OFFSET END OF PCB
5' MIN. FROM OPEN LANE

CLOSE LEFT TWO LANES
PER RSD 1101.02 SHEET 5 OF 9.

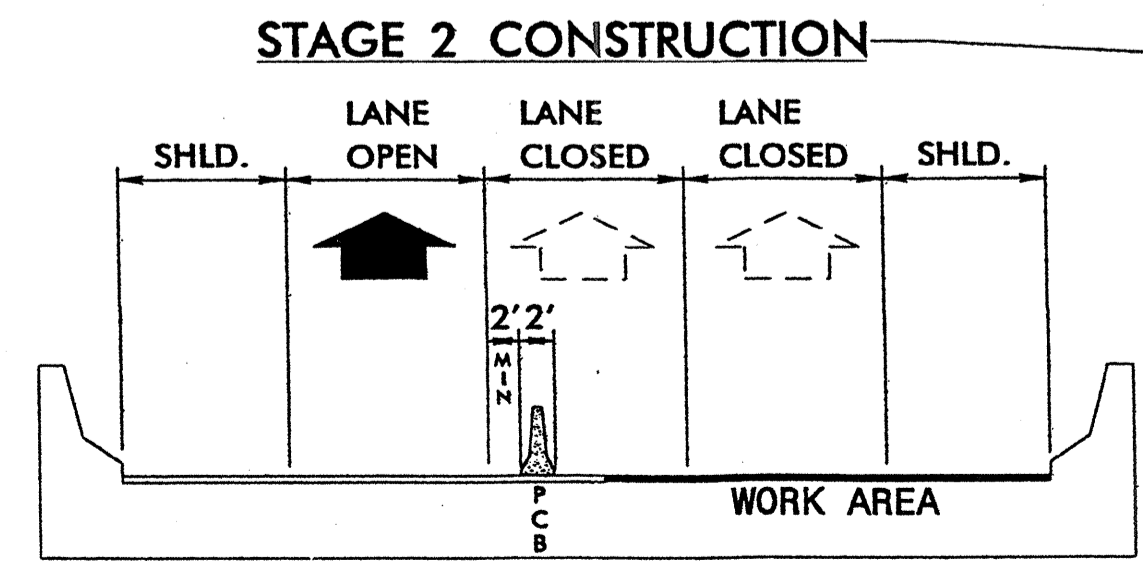
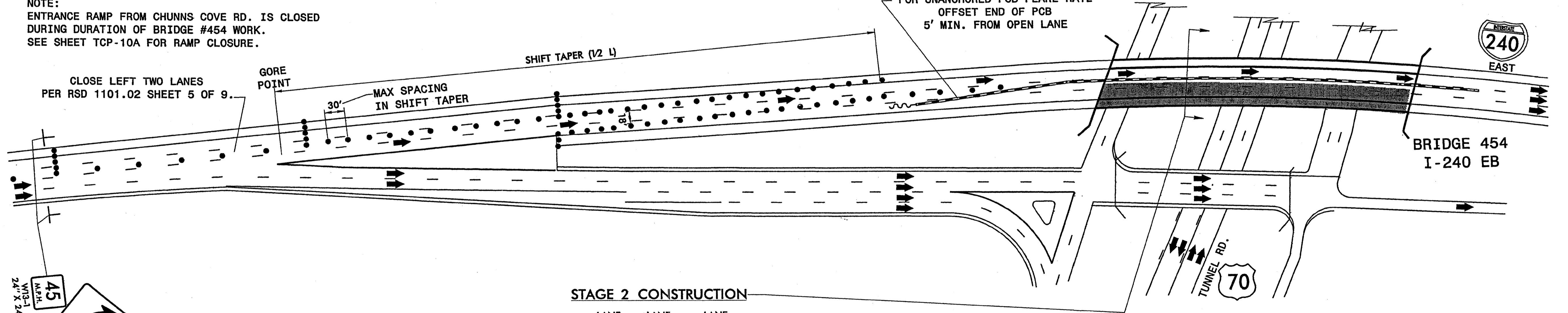


STAGE 2 CONSTRUCTION BRIDGE 454 I-240 EB

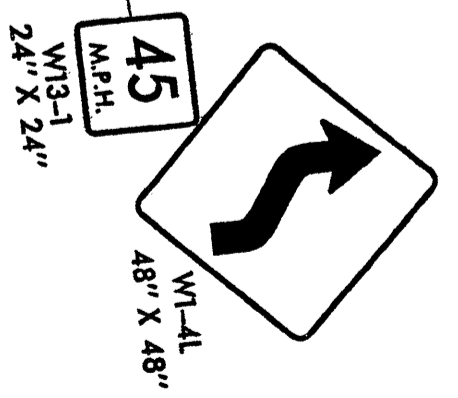
NOTE:
ENTRANCE RAMP FROM CHUNNS COVE RD. IS CLOSED
DURING DURATION OF BRIDGE #454 WORK.
SEE SHEET TCP-10A FOR RAMP CLOSURE.

SEE RSD 1101.11 SHEET 3 OF 4
FOR UNANCHORED PCB FLARE RATE
OFFSET END OF PCB
5' MIN. FROM OPEN LANE

CLOSE LEFT TWO LANES
PER RSD 1101.02 SHEET 5 OF 9.



I:\design\trcf\10222009\control\Nb-5179b_tcp\plansheets\B5179B_tcp_psh_10_454.dgn
 gkarageor.g



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Gregory L. Watson
 10/6/09
 SIGNATURE DATE

TRAFFIC CONTROL FOR
AREA 4 - BRIDGE #454
I-240 EASTBOUND

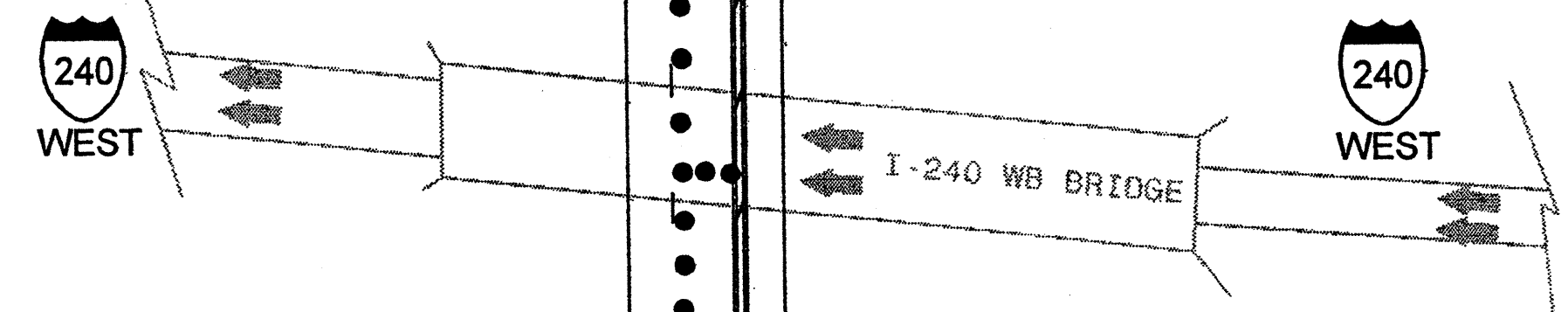
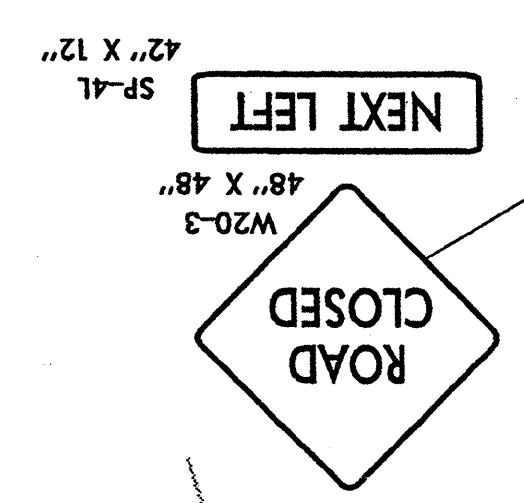
SCALE:	NONE
DATE:	AUG. 2009
DWG. BY:	GK
DESIGN BY:	BLW
REVIEWED BY:	BLW

REVISIONS

CARD FILE

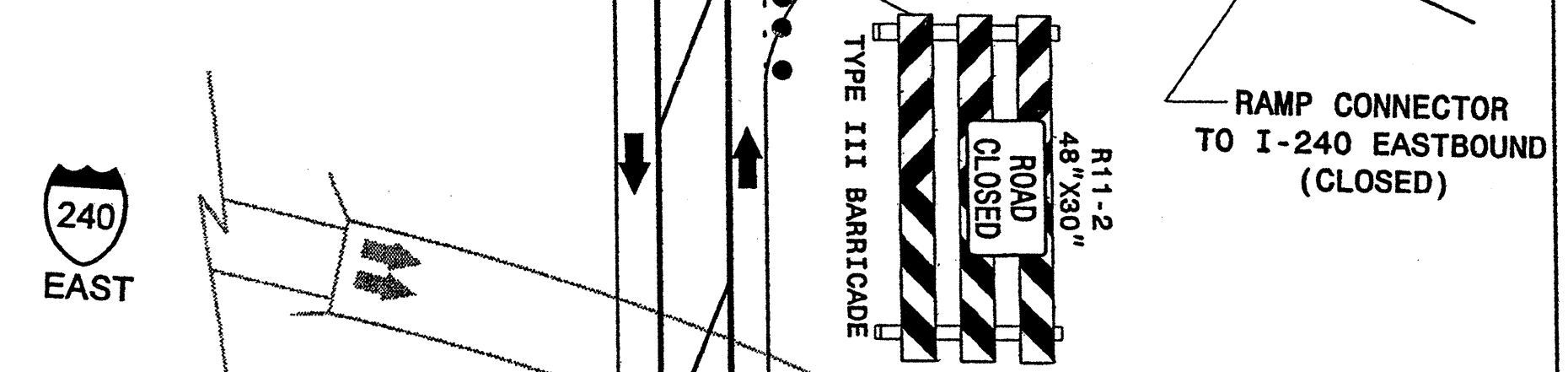
MESSAGE NO. 1	MESSAGE NO. 2
I-240 EB RAMP CLOSED	FOLLOW US 70 TO I-240

CHANGEABLE MESSAGE SIGN

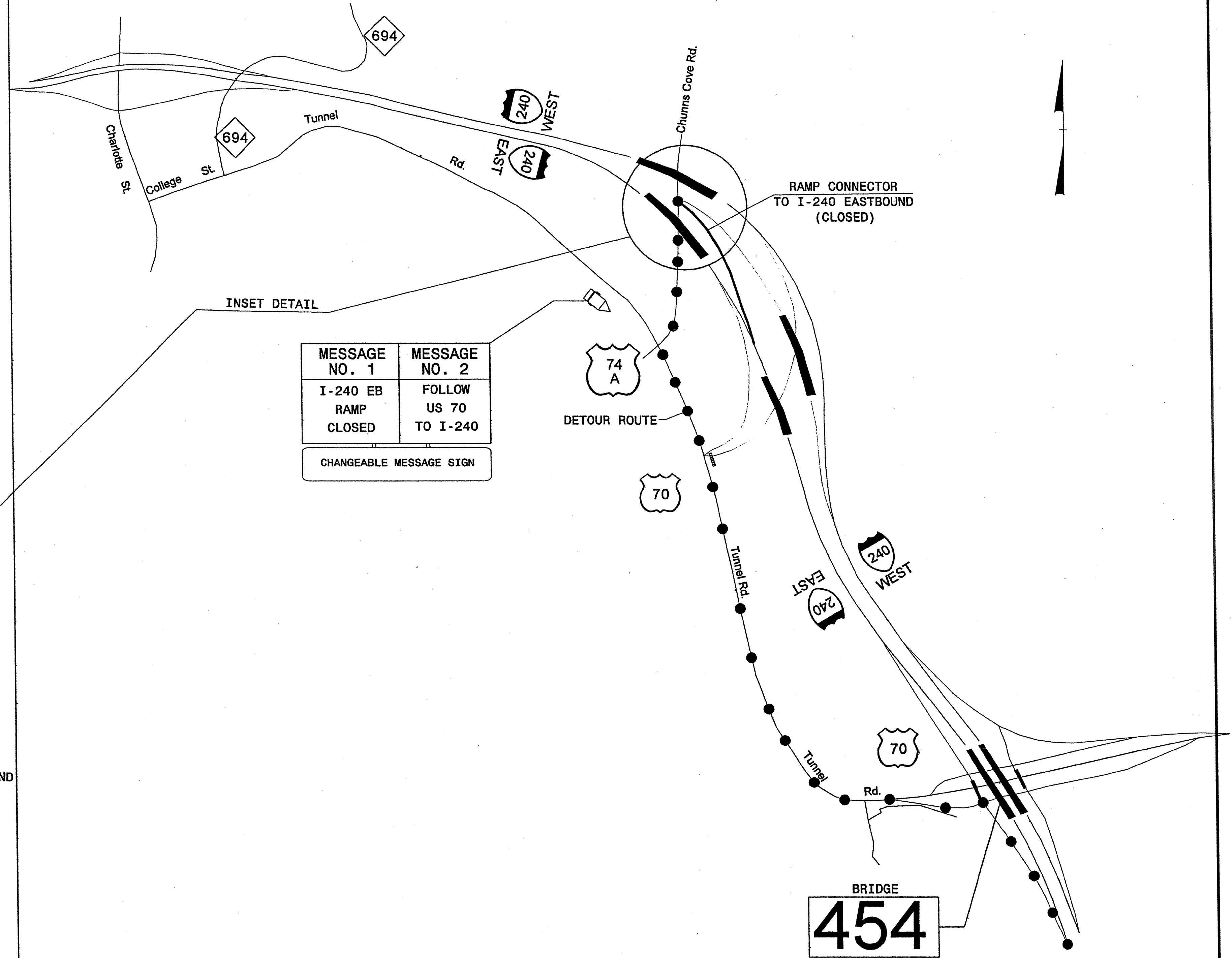
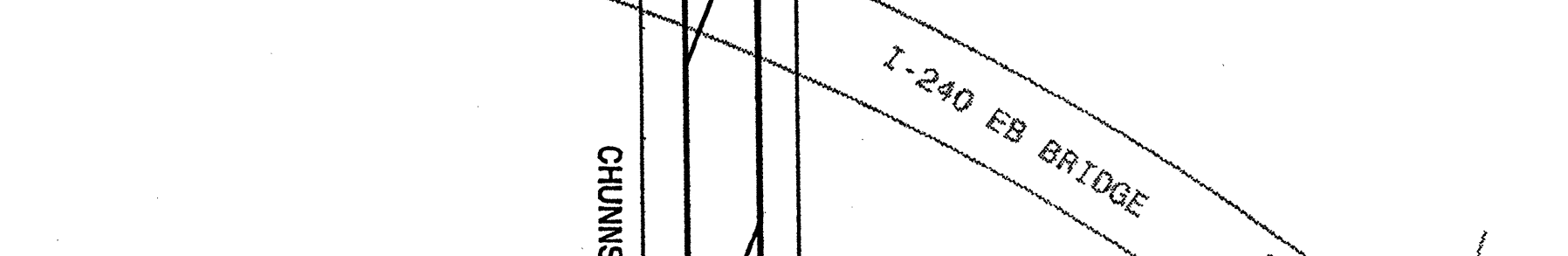


CLOSE LEFT TURN LANE

RAMP FROM I-240 WESTBOUND



RAMP CONNECTOR TO I-240 EASTBOUND (CLOSED)



MESSAGE NO. 1	MESSAGE NO. 2
I-240 EB RAMP CLOSED	FOLLOW US 70 TO I-240

CHANGEABLE MESSAGE SIGN

DETOUR ROUTE

RAMP CONNECTOR TO I-240 EASTBOUND (CLOSED)

BRIDGE 454

10/6/2009 10:51:58 TCP\PLANS\SHEETS\B5179B_tcp_psh_10A_454_RAMP_CLOSURE.dgn
 gk\gk\gk

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TRAFFIC CONTROL FOR CLOSURE OF RAMP CONNECTOR FROM CHUNNS COVE RD. TO I-240 EASTBOUND DURING BRIDGE #454 WORK.

SCALE:	NONE
DATE:	AUG. 2009
DWG. BY:	GK
DESIGN BY:	BLW
REVIEWED BY:	BLW

REVISIONS

CADD FILE

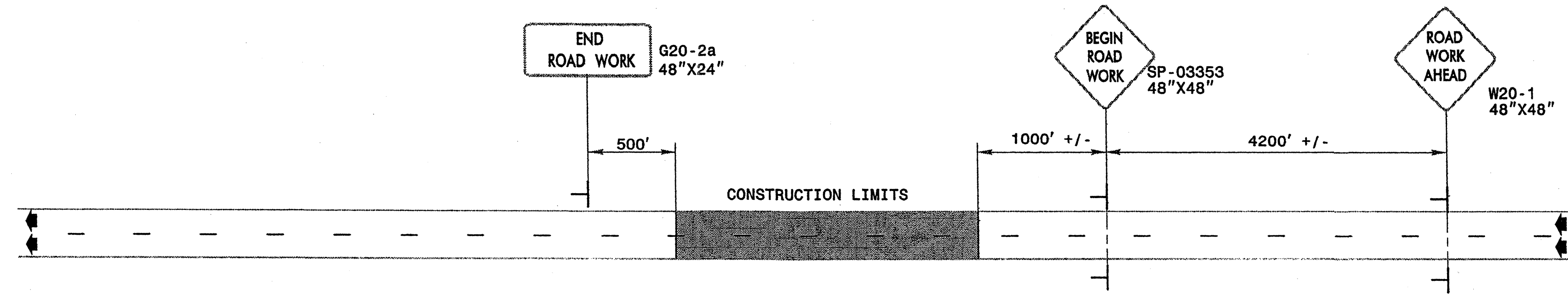


FIGURE B

EXIT RAMP

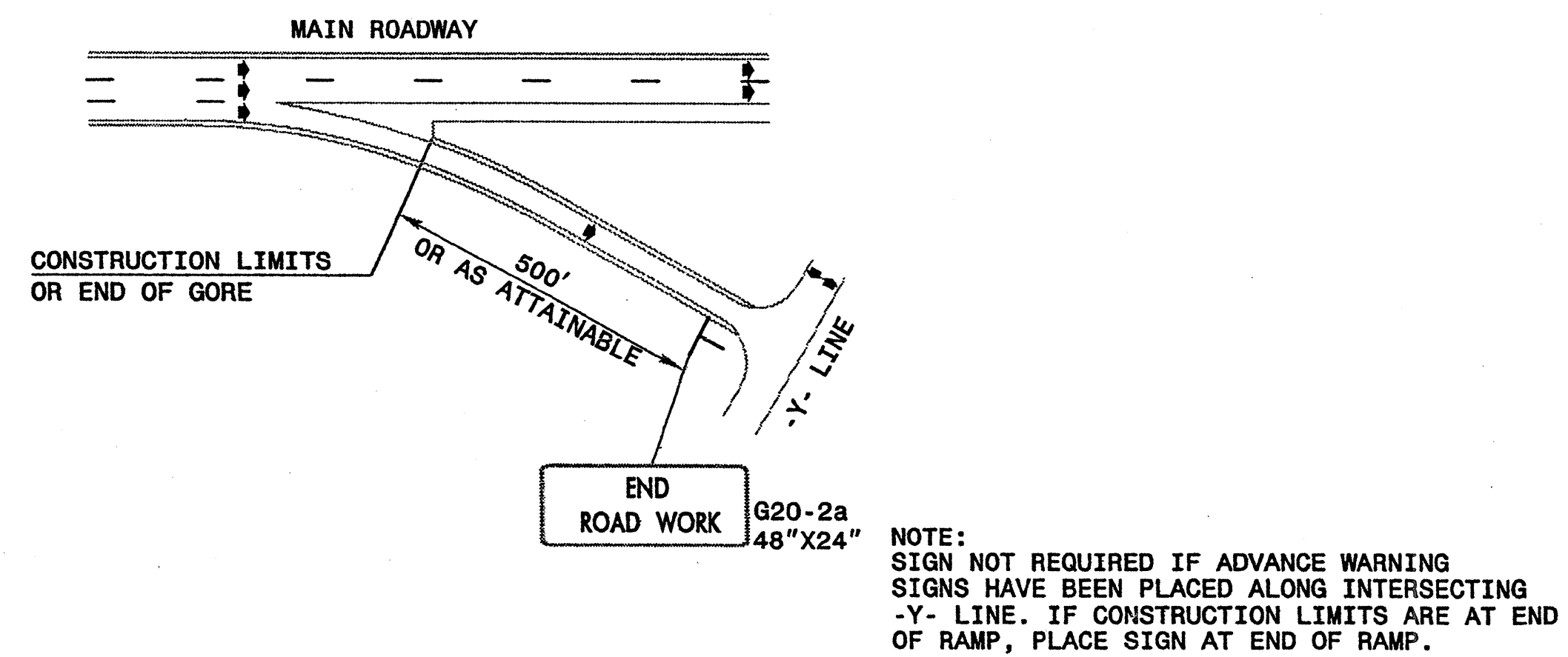
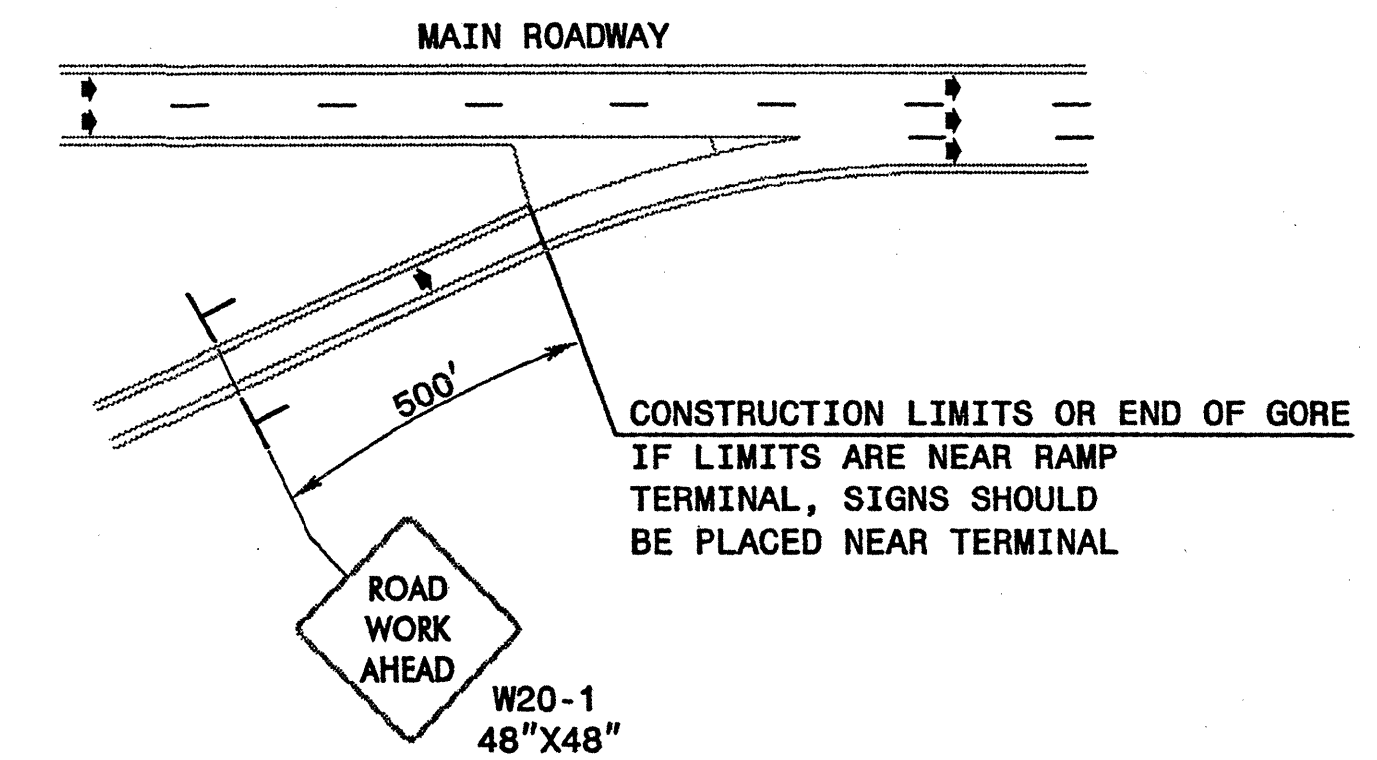


FIGURE C

ENTRANCE RAMP



NOTES:

- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- 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.
- FOR UNDIVIDED ROADWAYS SIGNS ARE NOT REQUIRED ON THE LEFT SIDE OF EACH APPROACH.

10/2/2009
 gk\tr\ref\c\tr\p\control\B-5179b_tcp\plansheets\B5179b_tcp_psh_11.ADV\WARN.dgn
 gk\tr\ref\c\tr\p\control\B-5179b_tcp\plansheets\B5179b_tcp_psh_11.ADV\WARN.dgn

 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27603 Tel. 919.851.8866 Fax. 919.851.7024 www.stantec.com	SEAL 10/16/09	WORK ZONE ADVANCE WARNING SIGNS							
	SIGNATURE DATE	SCALE: NONE DATE: AUG. 2009 DWG. BY: GK DESIGN BY: BLW REVIEWED BY: BLW		REVISIONS <table border="1"> <tr> <td>03/04</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>	03/04				
03/04									