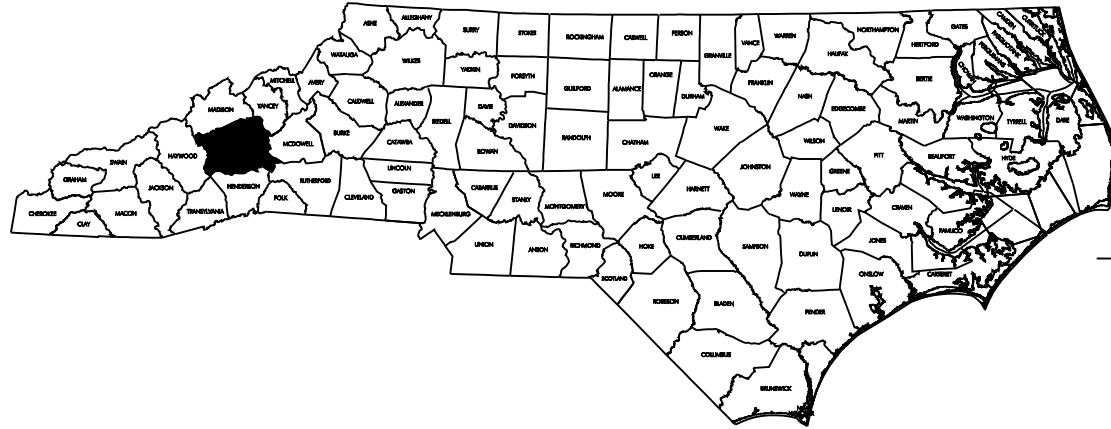


**CONTRACT NO. D000029 TIP PROJECT: B-4700AQ**

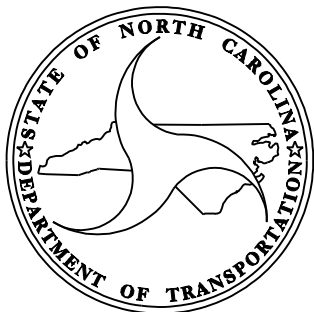
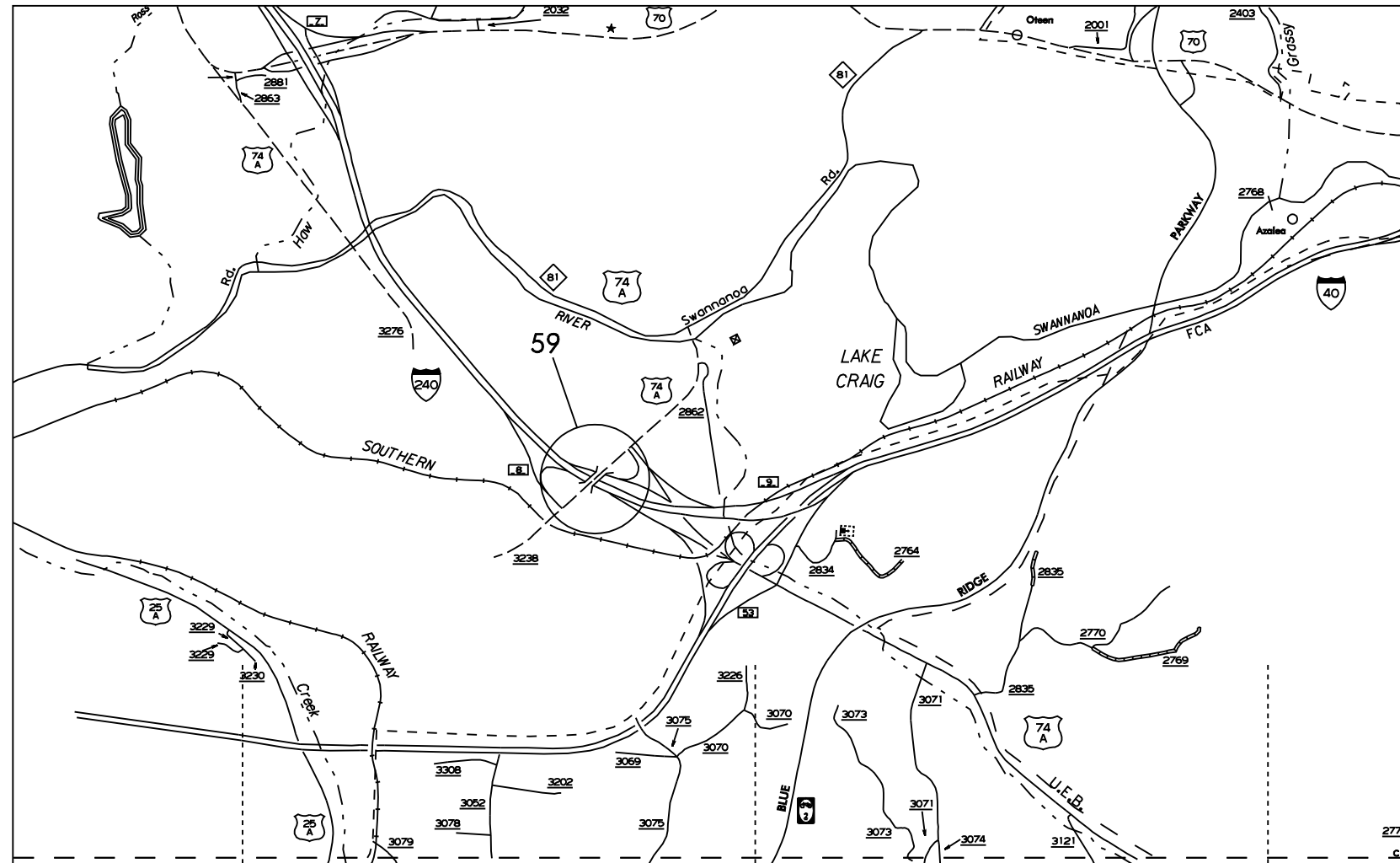


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BUNCOMBE COUNTY**

**LOCATION: US 74A, ACROSS I 240  
TYPE OF WORK: BRIDGE PRESERVATION: CLEANING  
AND PAINTING OF EXISTING  
BRIDGE #59 IN BUNCOMBE COUNTY.**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4700AQ	1	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
36727.1.1	BRNHS-000S(504)	P.E.	
36727.3.41	BRNHS-000S(370)	CONST	



**DESIGN DATA**

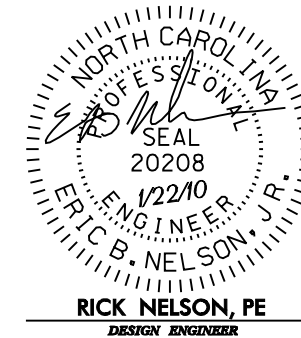
Prepared In the Office of:  
**BRIDGE MANAGEMENT UNIT**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

**LETTING DATE:**  
FEBRUARY 25, 2010

**DAN HOLDERMAN, PE**  
STATE BRIDGE  
MANAGEMENT ENGINEER

**MIKE SUMMERS**  
BRIDGE MANAGEMENT  
PROJECT MANAGER



**RICK NELSON, PE**  
DESIGN ENGINEER

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PLAN FOR PROPOSED  
TRAFFIC CONTROL**

**BUNCOMBE COUNTY**

LOCATION: BRIDGE NO. 59.

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE PAINTING

**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - WORK AREA

**TRAFFIC CONTROL DEVICES**

- 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

**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
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUM

**INDEX OF SHEETS**

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS
TCP-2	GENERAL NOTES
TCP-3	VICINITY MAP AND PROJECT PHASING
TCP-4	DETAIL FOR TREATMENT OF RIGHT LANE CLOSURES IN THE VICINITY OF ENTRANCE RAMP
TCP-5	DETAIL SHEET FOR RIGHT LANE CLOSURE
TCP-6	DETOUR ROUTE FOR LOOP CLOSURE

WBS 36727.3.41

TIP PROJECT: B-4700AQ

I:\4\2010\U:\Traffic\TrafficControl\B-4700AQ Buncombe\TCP\Plan Sheets\B-4700AQ\_tcp.psh\_01.dgn  
k.wieskamp

APPROVER: DATE: Jan 19, 2010 	PLAN PREPARED BY:  BETSY L. WATSON, PE KELLIE L. WIESKAMP, EI	Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com
	TRAFFIC CONTROL ENGINEER TRANSPORTATION 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:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	6:00 A.M.-7:00 P.M. MONDAY THRU SUNDAY

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

ROAD NAME  
ALL ROADS

#### 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 7:00 P.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 A.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 7:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 7:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY AND 6:00 A.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY TO 6:00 A.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 A.M. THE FOLLOWING TUESDAY 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 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.
- E) 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 1101.01, SHEET 1 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 SHEET TCP-4 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) 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.
- G) 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.
- H) DO NOT INSTALL MORE THAN 2 MILES OF LANE CLOSURE ON I-240 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- I) DO NOT INSTALL MORE THAN 1 SIMULTANEOUS LANE CLOSURE IN ANY ONE DIRECTION ON I-240 OR US 74A.

### TRAFFIC PATTERN ALTERATIONS

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


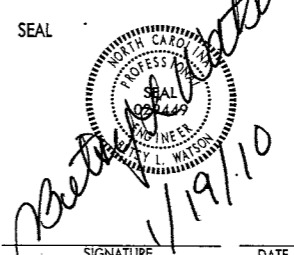
### SIGNING

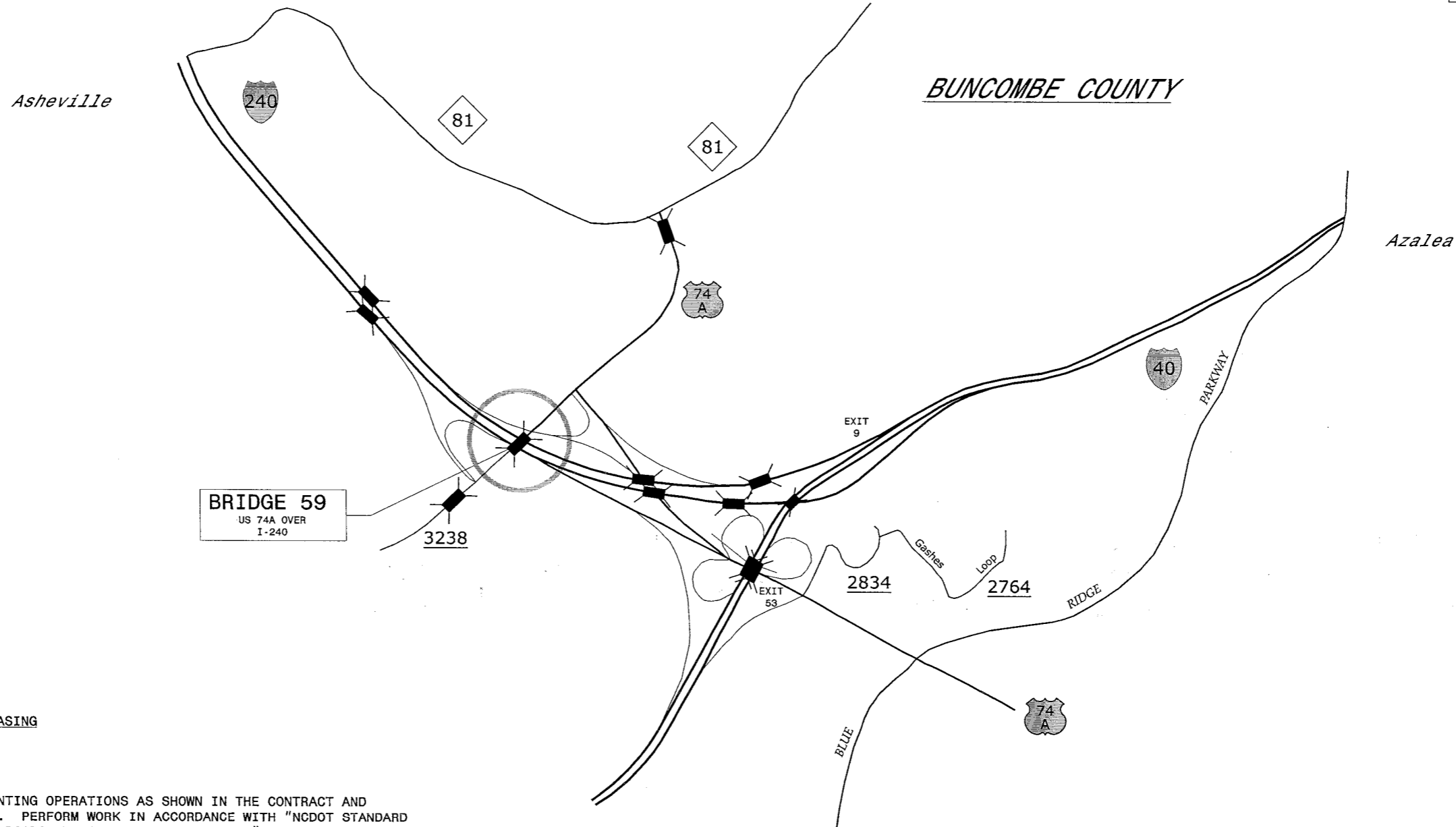
K) ENSURE ALL SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### MISCELLANEOUS

- L) DO NOT PERFORM WORK FROM THE ROADWAY ON TOP OF THE STRUCTURE.
- M) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- N) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA/INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

I:\14\2010\TrafficControl\B-4700AQ Buncombe\TCP\Plan Sheets\B-4700AQ\_tcp.psh.02.dgn

 <b>Stantec</b> <small>Stantec Consulting Services Inc.          Suite 300, 801 Jones Franklin Road          Raleigh, NC          27606          Tel: 919.851.6866          Fax: 919.851.7024          www.stantec.com</small>	SEAL	 <i>Kelly L. Watson</i> 1/19/10	<b>PROJECT NOTES GENERAL NOTES</b>				
	SCALE: NONE DATE: NOV. 2009 DWG. BY: KLW DESIGN BY: BLW REVIEWED BY: BLW	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td style="width: 50%;"> </td> <td style="width: 50%;"> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS				
REVISIONS							



**TRAFFIC CONTROL PHASING**

**STEP 1:**

PERFORM BRIDGE PAINTING OPERATIONS AS SHOWN IN THE CONTRACT AND CONSTRUCTION PLANS. PERFORM WORK IN ACCORDANCE WITH "NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES-JULY 2006".

WHEN WORKING ON BRIDGE #59, USE TEMPORARY LANE CLOSURES ON I-240 TO PERFORM THE WORK ACCORDING TO SHEET TCP-5. REFER TO SHEET TCP-6 FOR DETOUR ROUTE FOR CLOSURE OF FAIRVIEW RD. ON-LOOP DURING RIGHT LANE CLOSURES.

WHEN RIGHT LANE CLOSURES ENCROACH THROUGH THE VICINITY OF AN ENTRANCE RAMP UPSTREAM OF THE WORK AREA AT BRIDGE #59, USE SHEET TCP-4 IN CONJUNCTION WITH A RIGHT LANE CLOSURE AS SHOWN ON RSD 1101.02 SHEET 3 OF 9.

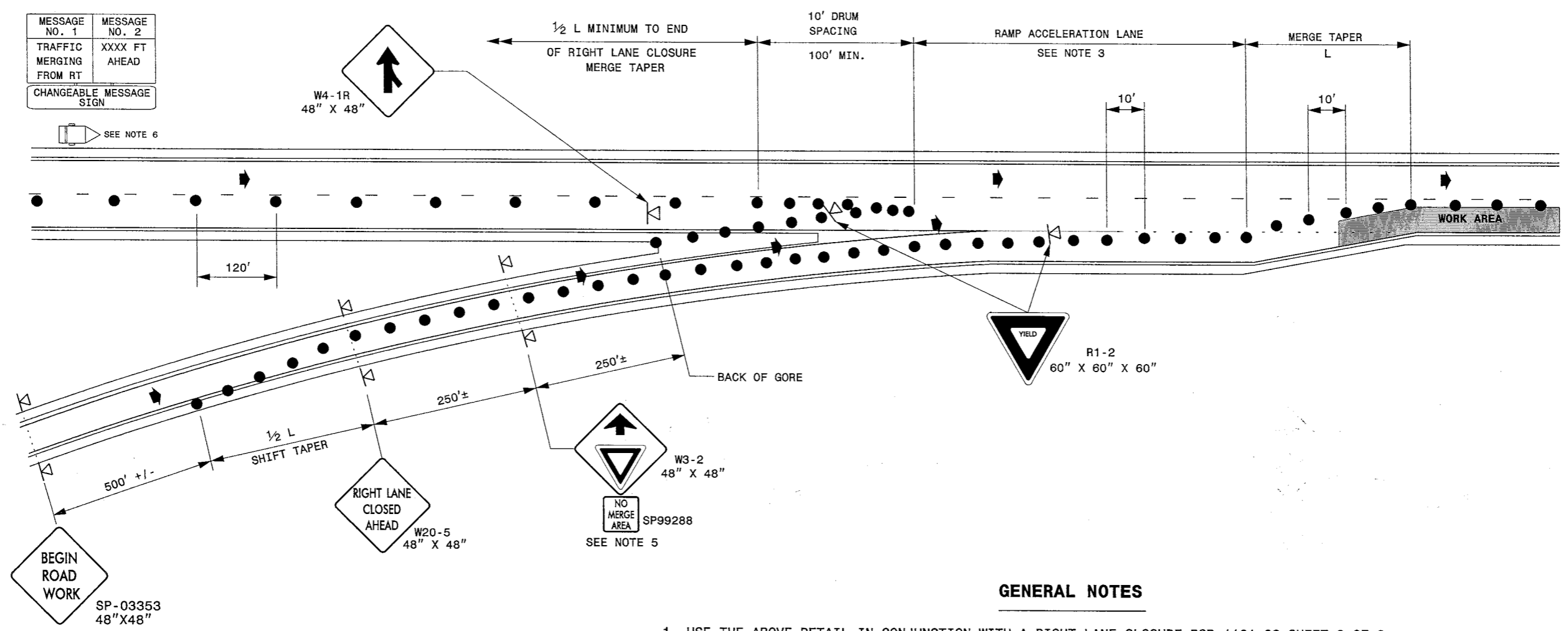
AT THE END OF EACH DAY'S OPERATIONS MOVE EQUIPMENT TO STAGING AREA AT LEAST 40 FEET AWAY FROM ANY TRAVEL LANES AS APPROVED BY THE ENGINEER AND REMOVE LANE CLOSURES. WHEN NOT BEING USED TO CLOSE A LANE, DRUMS MAY EITHER BE TOTALLY REMOVED OR BE MOVED TO OUTSIDE OF SHOULDER SUCH THAT THEY DO NOT CLOSE THE SHOULDER.

**STEP 2:**

UPON COMPLETION OF THE PROJECT, REMOVE ALL TRAFFIC CONTROL DEVICES.

J:\14\2010\K\TrafficControl\B-4700AQ Buncombe\TCP\Plan Sheets\B-4700AQ\_tcp\_psh\_03.dgn  
 kwt  
 1/19/10

 <b>Stantec</b> Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27608 Tel. 919.851.6866 Fax: 919.851.7024 www.stantec.com	SEAL  <i>Kelly L. Watson</i> 1/19/10	<b>BUNCOMBE COUNTY BRIDGE PAINTING VICINITY MAP TRAFFIC CONTROL PHASING</b>							
	SIGNATURE DATE	SCALE: NONE DATE: NOV. 2009 DWG. BY: KLV DESIGN BY: BLW REVIEWED BY: BLW		<b>REVISIONS</b> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					



**GENERAL NOTES**

- 1- USE THE ABOVE DETAIL IN CONJUNCTION WITH A RIGHT LANE CLOSURE RSD 1101.02 SHEET 3 OF 9.
- 2- MOUNT SIGNS SHOWN A MINIMUM OF 5 FEET ABOVE THE PAVEMENT ELEVATION.
- 3- IF EXISTING ACCELERATION DISTANCE OR A MINIMUM OF 400' ACCELERATION DISTANCE CANNOT BE PROVIDED, CONTACT THE WORK ZONE TRAFFIC CONTROL UNIT FOR FURTHER GUIDANCE.
- 4- CLOSE THE RIGHT LANE SUFFICIENTLY IN ADVANCE TO STABILIZE MOTOR VEHICLE TRAFFIC FLOW BEFORE THE MERGE AS SHOWN ON RSD 1101.02 SHEET 3 OF 9.
- 5- INSTALL SP99288 BELOW THE YIELD AHEAD SIGN (AS SHOWN) TO ALERT MOTORISTS THAT THE ACCELERATION DISTANCE HAS BEEN REDUCED.
- 6- COORDINATE WITH THE ENGINEER FOR LOCATION OF CMS.
- 7- USE THE ABOVE DETAIL ALONG I-240 FOR THE FOLLOWING SITUATION:

BRIDGE NO. 59, I-240 EB ON-RAMP FROM US 74A FAIRVIEW RD.

LEGEND	
	CHANGEABLE MESSAGE SIGN (CMS)
	DRUM
	PORTABLE SIGN
	DIRECTION OF TRAFFIC FLOW

Stantec Consulting Services Inc.  
Suite 300, 801 Jones Franklin Road  
Raleigh, NC  
27606  
Tel. 919.851.8866  
Fax. 919.851.7024  
www.stantec.com

SEAL

*Gregory L. Watson*  
11/19/10

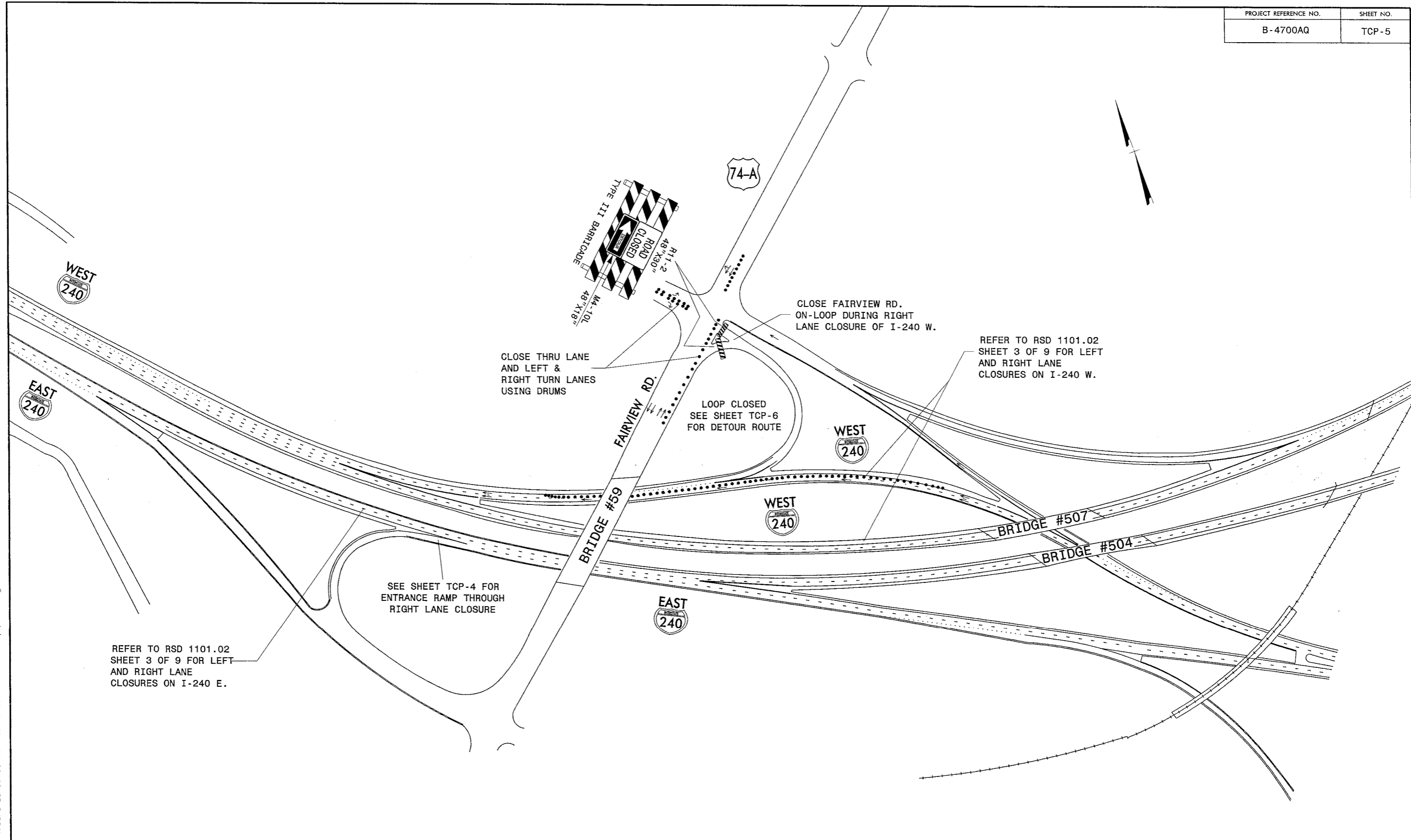
SIGNATURE DATE

**RIGHT LANE CLOSURES THROUGH ENTRANCE RAMP**

SCALE: NONE		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS		NO.	DESCRIPTION				
REVISIONS										
NO.			DESCRIPTION							
DATE: NOV. 2009										
DESIGN BY: KLV										
REVIEWED BY: BLW										

CADD FILE

I:\14-2810\14-2810-1\14-2810-1\TrafficControl\B-4700AQ\_Burcombe\TCP\Plan Sheets\B-4700AQ\_tcp\_psh\_04.dgn



1/14/2010  
 J:\TrafficControl\B-4700AQ\_Buncombe\TCP\Plan\_Sheets\B-4700AQ\_tcp.psh\_05.dgn  
 kwl:ekamp

REFER TO RSD 1101.02 SHEET 3 OF 9 FOR LEFT AND RIGHT LANE CLOSURES ON I-240 E.

SEE SHEET TCP-4 FOR ENTRANCE RAMP THROUGH RIGHT LANE CLOSURE

CLOSE THRU LANE AND LEFT & RIGHT TURN LANES USING DRUMS

LOOP CLOSED SEE SHEET TCP-6 FOR DETOUR ROUTE

CLOSE FAIRVIEW RD. ON-LOOP DURING RIGHT LANE CLOSURE OF I-240 W.

REFER TO RSD 1101.02 SHEET 3 OF 9 FOR LEFT AND RIGHT LANE CLOSURES ON I-240 W.

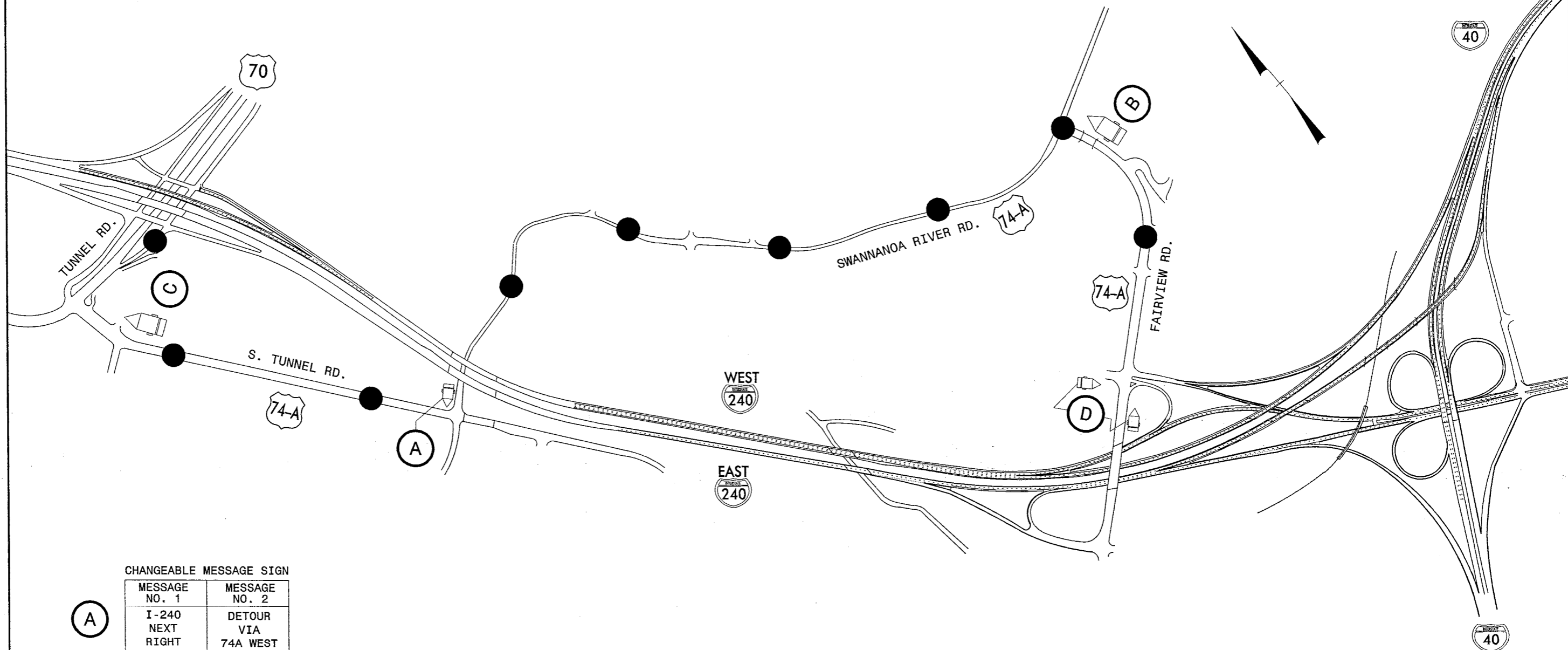
Stantec  
 Stantec Consulting Services Inc.  
 Suite 300, 801 Jones Franklin Road  
 Raleigh, NC  
 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com

SEAL

Kelly L. Watson  
 1/19/10  
 SIGNATURE DATE

**BRIDGE 59  
DETAIL SHEET FOR  
RIGHT LANE CLOSURE**

SCALE: NONE		REVISIONS	
DATE: NOV. 2009			
DWG. BY: K LW			
DESIGN BY: BLW			
REVIEWED BY: BLW			



CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
<b>A</b> I-240 NEXT RIGHT	DETOUR VIA 74A WEST
CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
<b>B</b> I-240 NEXT LEFT	DETOUR VIA 74A WEST
CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
<b>C</b> I-240 NEXT RIGHT	FOLLOW I-240 SIGNS
CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
<b>D</b> I-240 W RAMP CLOSED	DETOUR VIA 74A WEST

● = DETOUR ROUTE FOR CLOSURE OF FAIRVIEW RD. TO I-240 W LOOP

I:\14\2010\TrafficControl\B-4700AQ\_Buncombe\TCP\Plan\_Sheets\B-4700AQ\_tcp.psh\_06.dgn

Stantec Consulting Services Inc.  
Suite 300, 801 Jones Franklin Road  
Raleigh, NC  
27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com

SEAL

*Gregory L. Watson*  
1/19/10

SIGNATURE DATE

**BRIDGE 59  
DETOUR ROUTE FOR  
LOOP CLOSURE**

SCALE: NONE		REVISIONS
DATE: NOV. 2009		
DESIGN BY: KLW		
REVIEWED BY: BLW		