

U-3300B

TIP PROJECT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
U - 3 3 0 0 B	TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION STANLY COUNTY

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
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER 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
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
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1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

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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
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER
 - PORTABLE CONCRETE BARRIER

- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

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<p>APPROVED: <i>Betsy L. Watson</i> DATE: <i>October 21, 2008</i></p>	<p style="font-size: x-small;">Prepared in the Office of:</p> <p>STANTEC CONSULTING SERVICES, INC.</p>
<p>SEAL</p>	<p><i>Betsy L. Watson, P.E.</i> TRAFFIC ENGINEER</p> <p><i>George Karageorge</i> TRANSPORTATION DESIGNER</p>
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GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, UNLESS OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

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.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A. DO NOT CLOSE OR NARROW TRAVEL LANES FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- B. DURING TRAFFIC STOPPAGES DO NOT STOP TRAFFIC FOR MORE THAN 15 MINUTES. PROVIDE ENOUGH TIME BETWEEN CONSECUTIVE STOPPAGES TO ALLOW THE TRAFFIC QUEUE TO DEplete.
- 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 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 NO. 1101.02 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.

HAULING OPERATIONS

- H. DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER. REFER TO RDWY. STD. DWG. 1101.05 FOR HAUL ROADS. ALL HAUL ROAD LOCATIONS ARE TO BE APPROVED BY THE ENGINEER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I. BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAVE AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
 - BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
 - BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
 - BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- 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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

SIGNING

- K. ALL DETOUR ROUTING SIGNS/PANELS FURNISHED AND INSTALLED BY CONTRACTOR.
- L. NOTIFY THE ENGINEER 21 CALENDAR DAYS PRIOR TO ALTERING THE EXISTING TRAFFIC PATTERN.
- M. PERMANENT SIGNING FURNISHED AND INSTALLED BY CONTRACTOR.
- N. COVER OR REMOVE ALL DETOUR SIGNS WHEN A DETOUR IS NOT IN OPERATION.
- O. ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P. INSTALL ADVANCE WORK ZONE SIGNS WHEN WORK IS WITHIN 40 FEET FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

TRAFFIC CONTROL DEVICES

- Q. SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER 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.
- R. PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2.
- S. WHEN SKINNY DRUMS ARE ALLOWED, USE IN LOCATIONS APPROVED BY THE ENGINEER. REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

PAVEMENT MARKINGS AND MARKERS


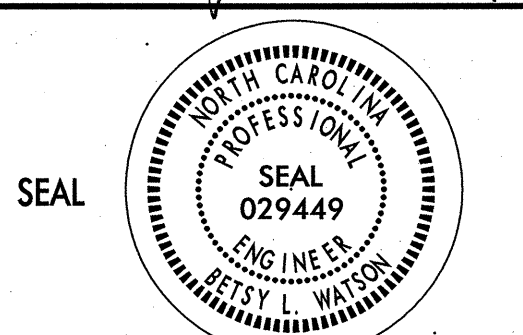

- T. TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- U. WHERE TRAFFIC IS TO BE MAINTAINED, REMOVE CONFLICTING AND REPLACE DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- V. INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
RIDGE ST. EXTENSION -L-	THERMOPLASTIC	SNOWPLOWABLE
ALL -Y- LINES	THERMOPLASTIC	NONE

- W. INSTALL TEMPORARY PAVEMENT MARKINGS AND PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

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 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com	APPROVED: <i>Betsy L. Watson</i> DATE: 10/21/08 	GENERAL NOTES			
	SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW		REVISIONS <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>		

TRAFFIC CONTROL PLAN PHASING

PHASE I

CONSTRUCTION OF PROPOSED RIDGE STREET EXTENSION (L)

(SEE SHEET TCP 4, 4A, 5, 5A-5E)

STEP 1:
INSTALL WORK ZONE ADVANCE WARNING SIGNS ON PROJECT (TCP 4, 4A).

STEP 2: (TCP 5, 5A-5E)
WHILE MAINTAINING THE EXISTING TRAFFIC PATTERN PROCEED WITH THE FOLLOWING:

BEGIN CONSTRUCTION OF PROPOSED RIDGE STREET EXTENSION (L) FROM 22+00± - 87+50± AWAY FROM EXISTING TRAFFIC (TCP 5A-5D). (NOTE: 40+00± - 87+50± REQUIRED TO BE COMPLETED IN PHASE III)

BEGIN CONSTRUCTION OF PROPOSED MOUNTAINVIEW RD. CULVERT/DRAINAGE/EARTHWORK AWAY FROM EXISTING TRAFFIC (TCP 5B). (NOTE: MOUNTAINVIEW RD. REQUIRED TO BE COMPLETED IN PHASE II)

BEGIN CONSTRUCTION OF CARTERS ACRES RD. (Y3) FROM 10+00± Y3 - 26+90± Y3 AND AIRPORT RD. (Y4) FROM 10+00± Y4 - 12+75± Y4 CONSTRUCTING UP TO THE EXISTING EDGE OF PAVEMENT ELEVATION. (TCP 5C, 5E) MAINTAIN THE EXISTING TRAFFIC PATTERN AT CARTERS ACRES RD. AND AIRPORT RD.

PHASE II

CONSTRUCTION OF PROPOSED MOUNTAINVIEW CHURCH ROAD (Y2)

(SEE SHEETS TCP 6, 6A-6B)

STEP 1: (TCP 6)
IN PREPARATION FOR CLOSURE OF MOUNTAINVIEW CHURCH RD. (Y2) INSTALL DETOUR ROUTING PANELS AND ROAD CLOSURE SIGNING AND MAINTAIN COVERED.
NOTIFY THE ENGINEER 21 CALENDAR DAYS PRIOR TO ALTERING THE EXISTING TRAFFIC PATTERN.

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF PHASE II STEPS 2, 3, 4 AND 5 IN A CONTINUOUS OPERATION WITHIN A TIME PERIOD OF 90 CONSECUTIVE CALENDAR DAYS.

STEP 2: (TCP 6, 6A)
IN A CONTINUOUS OPERATION UNCOVER DETOUR ROUTING AND ROAD CLOSURE SIGNS AND INSTALL REMAINING ROAD CLOSURE TRAFFIC CONTROL DEVICES DIRECTING MOUNTAINVIEW CHURCH RD. (Y2) TRAFFIC ONTO DETOUR ROUTE, THEN CLOSE MOUNTAINVIEW CHURCH RD. (Y2).
MOUNTAINVIEW CHURCH RD. (Y2) TRAFFIC IS DETOURED VIA CARTERS ACRES RD.

STEP 3: (TCP 6A)
WITH MOUNTAINVIEW CHURCH RD. (Y2) CLOSED AND TRAFFIC OPERATING ON THE DETOUR, COMPLETE CONSTRUCTION OF PROPOSED MOUNTAINVIEW CHURCH RD. (Y2) FROM 9+30± - 20+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

STEP 4:
PLACE TEMPORARY PAINT PAVEMENT MARKINGS ON MOUNTAINVIEW CHURCH RD. (Y2) AS SHOWN ON TCP 6B.

STEP 5:
IN A CONTINUOUS OPERATION REMOVE BARRICADES, DETOUR/ROAD CLOSURE SIGNS AND OPEN MOUNTAINVIEW CHURCH RD. (Y2). TO TRAFFIC. (TCP 6B)

PHASE III

CONSTRUCTION OF PROPOSED RIDGE ST/AIRPORT RD (L/Y4) TIE-INS & CARTERS ACRES RD.

(SEE SHEETS TCP 7, 7A - 7H)

STEP 1: (TCP 7)
IN PREPARATION FOR CLOSURE OF AIRPORT RD. (LY4) INSTALL DETOUR ROUTING PANELS AND ROAD CLOSURE SIGNING AND MAINTAIN COVERED.
NOTIFY THE ENGINEER 21 CALENDAR DAYS PRIOR TO ALTERING THE EXISTING TRAFFIC PATTERN.

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF PHASE III STEPS 2, 3 AND 4 IN A CONTINUOUS OPERATION WITHIN A TIME PERIOD OF 15 CONSECUTIVE CALENDAR DAYS.

STEP 2: (TCP 7, 7A-7C)
IN A CONTINUOUS OPERATION UNCOVER DETOUR ROUTING AND ROAD CLOSURE SIGNS AND INSTALL REMAINING ROAD CLOSURE TRAFFIC CONTROL DEVICES DIRECTING AIRPORT RD. (LY4) TRAFFIC ONTO DETOUR ROUTE, THEN CLOSE EXISTING AIRPORT RD. AT STA. 19+00±(Y4) AND 88+00±(L).

AIRPORT RD TRAFFIC IS DETOURED VIA BARNHARDT RD. AND NC 740.

STEP 3: (TCP 7A-7H)
WITH AIRPORT RD. CLOSED AND TRAFFIC OPERATING ON THE DETOUR COMPLETE CONSTRUCTION OF RIDGE STREET EXTENSION (L) FROM 40+00±L - 87+50±L UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (TCP 7A-7B)

BEGIN PORTION OF Y4 (EXISTING AIRPORT RD.) 21+00-27+00 Y4.
USING ALTERNATING FLAGGER OPERATIONS COMPLETE THE FOLLOWING:
(REFER TO RDWY. STD. DWG. 1101.02 SHEET 1)

- COMPLETE CONSTRUCTION OF CARTERS ACRES RD. (Y3) FROM 10+00±Y3 - 26+90±Y3 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKING. (TCP 7A)
- COMPLETE CONSTRUCTION OF PROPOSED AIRPORT RD. (Y4) TIE-IN WITH -Y3. FROM 10+00±Y4 - 12+75±Y4 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKING. (TCP 7C, 7H)
- PLACE TEMPORARY PAVEMENT MARKINGS ON RIDGE ST. EXTENSION (L) FROM 41+00±L - 87+50±L (TCP 7D-7H)

STEP 4: (TCP 7D-7H)
IN A CONTINUOUS OPERATION REMOVE WING BARRICADES AT BARNHARDT RD. AND AIRPORT RD./NC 740 DETOUR POINTS. REMOVE/COVER DETOUR/ROAD CLOSURE SIGNS AND OPEN RIDGE STREET EXTENSION (L) BETWEEN MOUNTAINVIEW CHURCH RD. AND AIRPORT RD. TO TRAFFIC STA. 41+00± - 87+50±.

STEP 5: (TCP 7G)
CONTINUE CONSTRUCTION OF AIRPORT RD. (Y4) STA. 21+00± - 27+00± AWAY FROM TRAFFIC, CONSTRUCTING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (TCP 7G). ONCE THIS WORK IS COMPLETE, PLACE TEMPORARY PAVEMENT MARKINGS AND REMOVE BARRICADES AND SIGNS AND OPEN Y4 IN ITS ENTIRETY TO TRAFFIC.

PHASE IV

CONSTRUCTION OF PROPOSED RIDGE ST. EXTENSION (L/Y1) TIE-IN TO EXISTING RIDGE ST.

(SEE SHEETS TCP 8, 8A-8B)

STEP 1: (TCP 8)
IN PREPARATION FOR CLOSURE OF EXISTING RIDGE STREET INSTALL DETOUR ROUTING PANELS AND ROAD CLOSURE SIGNING AND MAINTAIN COVERED.
NOTIFY THE ENGINEER 21 CALENDAR DAYS PRIOR TO ALTERING THE EXISTING TRAFFIC PATTERN.

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF PHASE IV STEPS 2, 3, 4 AND 5 IN A CONTINUOUS OPERATION WITHIN A TIME PERIOD OF 45 CONSECUTIVE CALENDAR DAYS.

STEP 2: (TCP 8, 8A)
IN A CONTINUOUS OPERATION UNCOVER DETOUR ROUTING AND ROAD CLOSURE SIGNS AND INSTALL REMAINING ROAD CLOSURE TRAFFIC CONTROL DEVICES DIRECTING EXISTING RIDGE ST. TRAFFIC ONTO DETOUR ROUTE, THEN CLOSE EXISTING RIDGE ST. AT STA. 10+00±(L) 18+50±(Y1) AND 41+00±(L).

RIDGE ST. TRAFFIC IS DETOURED VIA NE CONNECTOR/PALESTINE RD./MOUNTAINVIEW CHURCH RD.

STEP 3:
WITH EXISTING RIDGE ST. CLOSED AND TRAFFIC OPERATING ON THE DETOUR ROUTE COMPLETE CONSTRUCTION OF PROPOSED TIE-IN TO RIDGE ST. EXTENSION (L) FROM 10+00±-40+00± (L) AND FROM 19+50±-23+10±(Y1) (TCP 8A)

STEP 4:
PLACE TEMPORARY PAINT PAVEMENT MARKINGS ON PROPOSED RIDGE STREET EXTENSION (L) FROM 10+00± - 41+00± AND ON Y1. (TCP 8B)

STEP 5: (TCP 8B)
IN A CONTINUOUS OPERATION REMOVE BARRICADES, DETOUR SIGNS AND ROAD CLOSURE SIGNS, COMPLETE TEMPORARY PAVEMENT MARKINGS AND OPEN THE PROPOSED RIDGE STREET EXTENSION TO THE NEW TRAFFIC PATTERN ALONG THE ENTIRE LENGTH OF PROJECT.

PHASE V

COMPLETION OF CUL-DE-SACS Y1 /FINAL LAYER OF SURFACE COURSE/FINAL PAVEMENT MARKINGS

(SEE SHEETS TCP 9-9A)

REFER TO RDWY. STD. DWG. 1101.02 SHEET 1 FOR FLAGGING OPERATION LANE CLOSURE
STEP 1:
CONSTRUCT CUL-DE-SAC PAVEMENT UP TO THE EXISTING EDGE OF PAVEMENT ELEVATION.


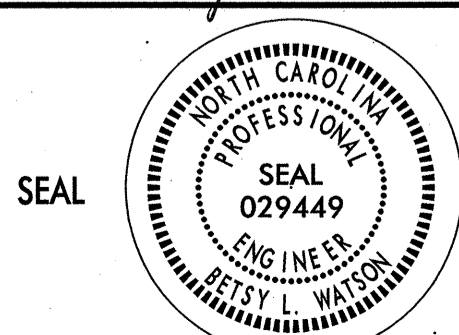

STEP 2: TCP 9A
PLACE BARRICADES AND ROAD CLOSURE SIGNS AND CLOSE EXISTING RIDGE STREET IN TWO SECTIONS.

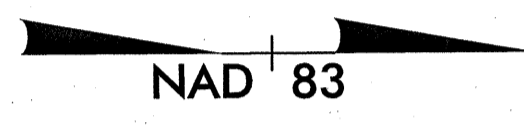
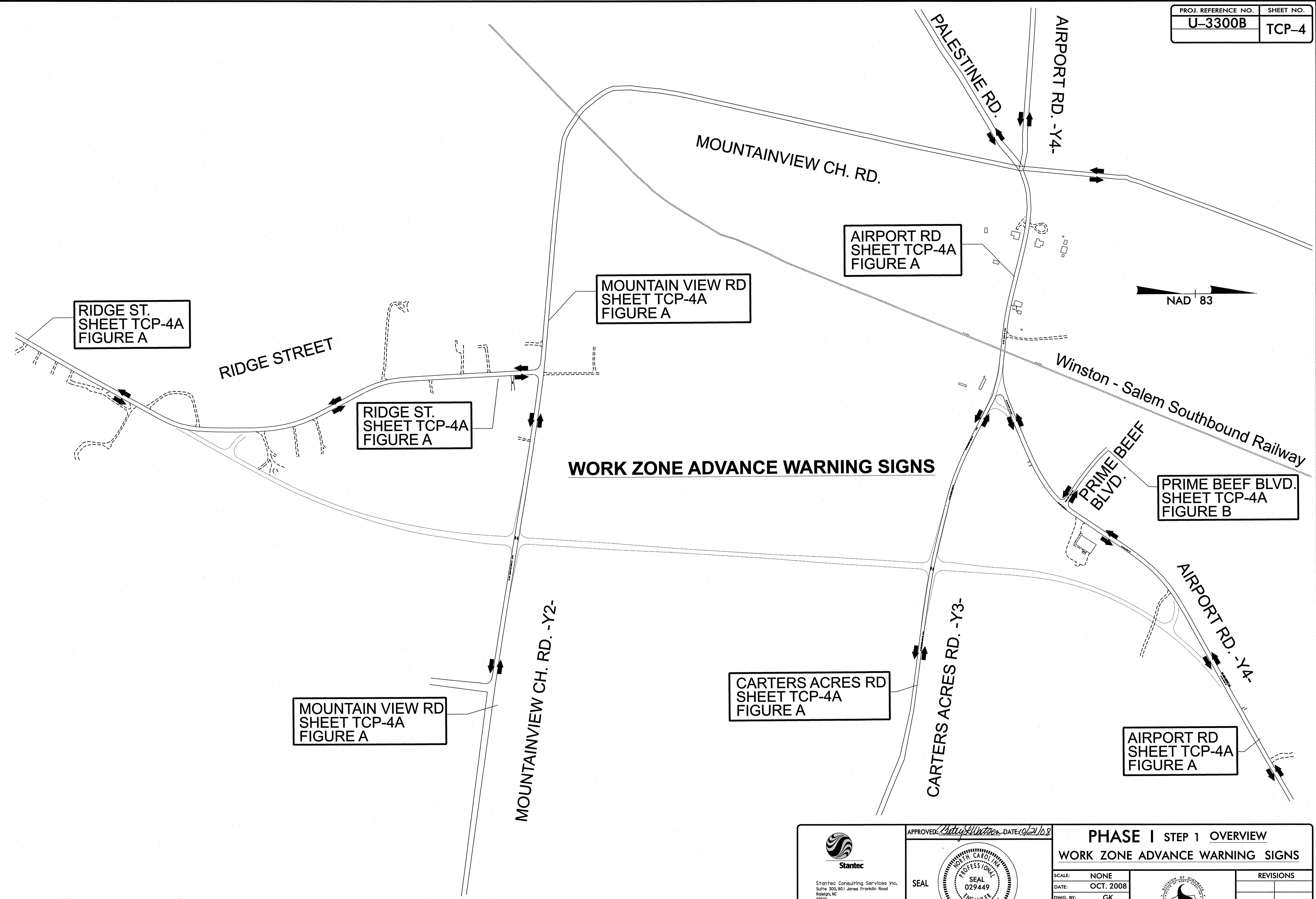
STEP 3: (TCP 9A)
USING FLAGGERS COMPLETE CONSTRUCTION OF CUL-DE-SACS AND RIDGE ST. PAVING. COMPLETE PLACEMENT OF TERMINAL GUARDRAIL END SECTIONS, END OF ROAD OBJECT MARKERS AND PERMANENT SIGNING.

STEP 4: (TCP 9A)
REMOVE BARRICADES AND ROAD CLOSURE SIGNS FROM RIDGE STREET AND MAINTAIN TRAFFIC OPERATING ON THE CUL-DE-SACS AS PROPOSED.

STEP 5:
UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS OR AS OTHERWISE DIRECTED BY THE ENGINEER PAVE THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL THERMOPLASTIC PAVEMENT MARKINGS (-L- & -Y- LINES) AND SNOWPLOWABLE PAVEMENT MARKERS (-L- ONLY) ON PROJECT. (PMP 1-8)

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 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com	APPROVED: <i>Betsy L. Whitson</i> DATE: 10/21/08	TRAFFIC CONTROL PLAN PHASING					
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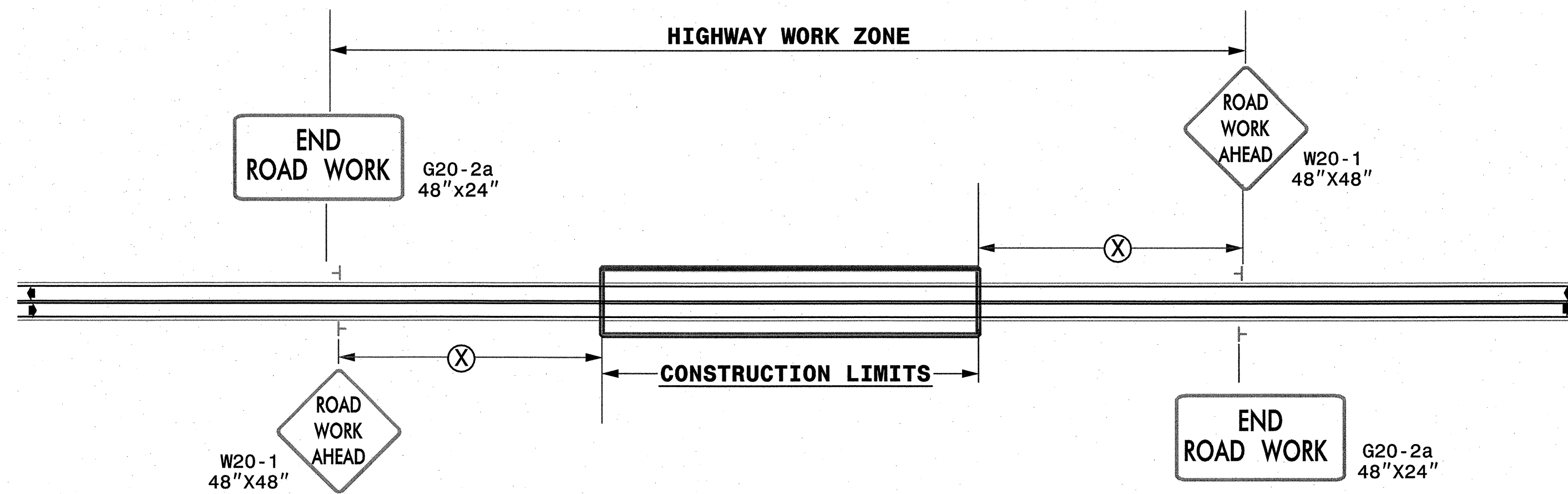


WORK ZONE ADVANCE WARNING SIGNS

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 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27605 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Betsy L. Watson</i> DATE: <i>10/21/08</i>	PHASE I STEP 1 OVERVIEW WORK ZONE ADVANCE WARNING SIGNS							
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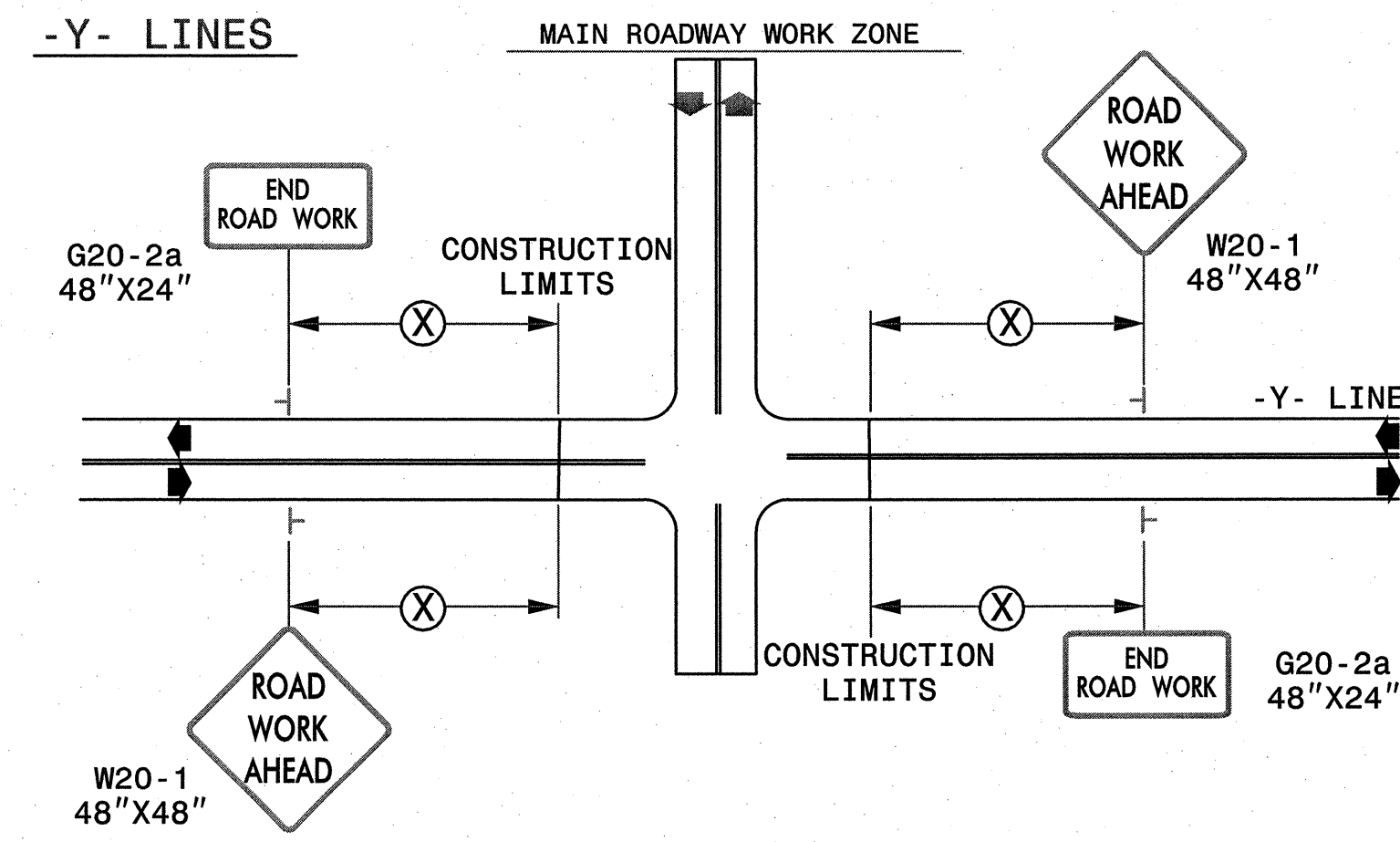
FIGURE A: TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

FIGURE B: ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- 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.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

┆ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING FOR
 TWO-WAY UNDIVIDED
 WORK ZONE WARNING SIGNS


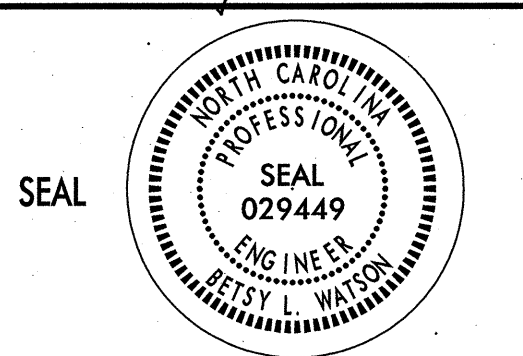

 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>[Signature]</i> DATE: 10/21/08 	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS							
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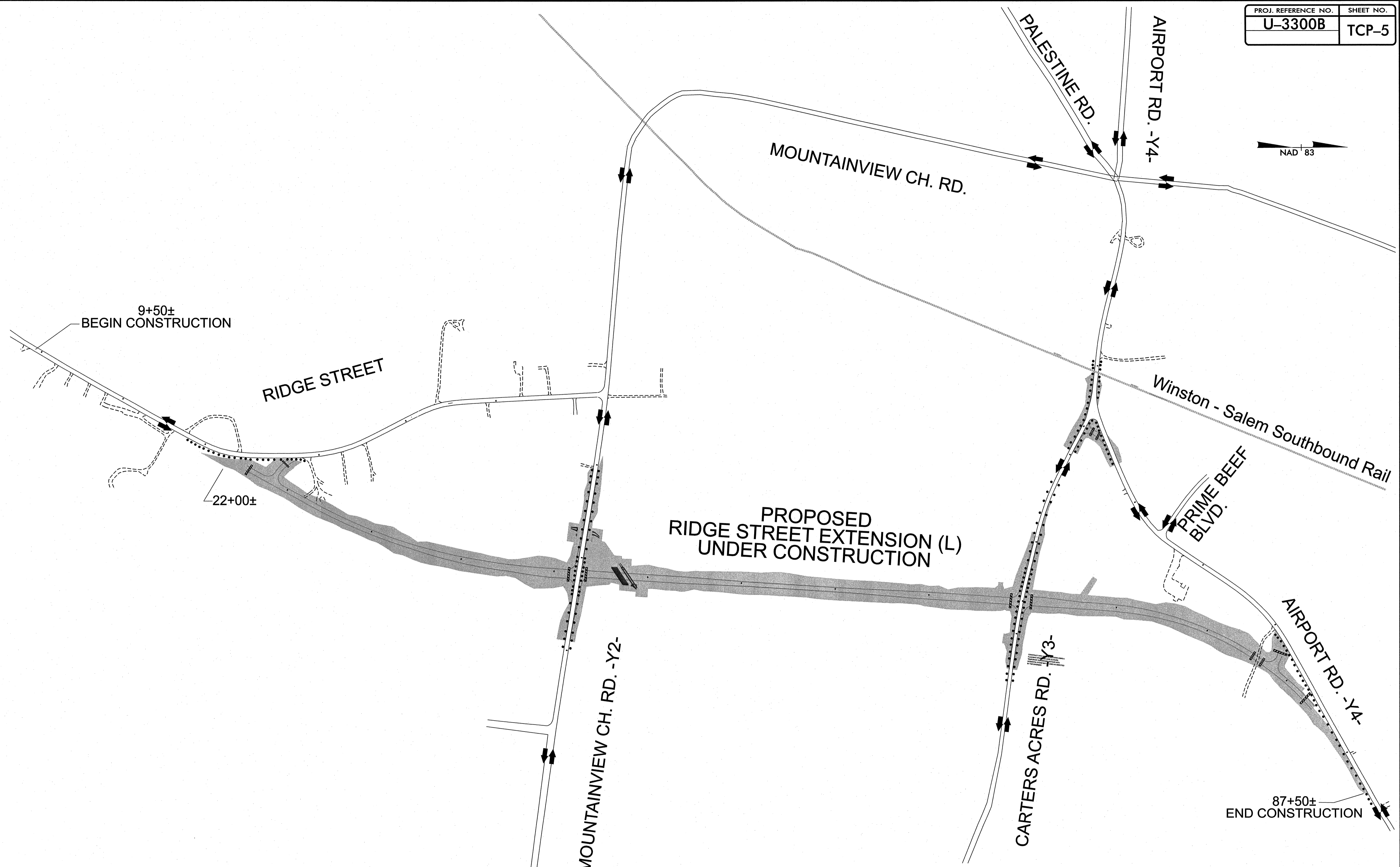
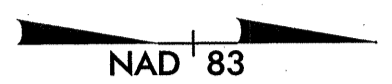
TEMPORARY PAVEMENT MARKING SCHEDULE				
SYMBOL	DESCRIPTION	TOTAL QUANTITY	UNIT	PAY ITEM QUANTITY
PAINT PAVEMENT MARKING LINES, (4")		107,691	LF	
PA	WHITE EDGELINE			48,000
PD	2 FT. WHITE MINISKIP			1,091
PE	WHITE SOLID LANE LINE			2,600
PI	YELLOW DOUBLE CENTER			56,000
PAINT PAVEMENT MARKING LINES, (8")		600	LF	
PV	YELLOW DIAGONAL			600
PAINT PAVEMENT MARKING LINES, (24")		620	LF	
P4	WHITE STOPBAR			620
PAINT PAVEMENT MARKING SYMBOLS		62	EA	
QA	LEFT TURN ARROW			24
QB	RIGHT TURN ARROW			14
QC	STRAIGHT ARROW			8
QD	COMBINATION STRAIGHT/LEFT ARROW			8
QE	COMBINATION STRAIGHT/RIGHT ARROW			8

NOTE: QUANTITIES INDICATE X 2 APPLICATIONS

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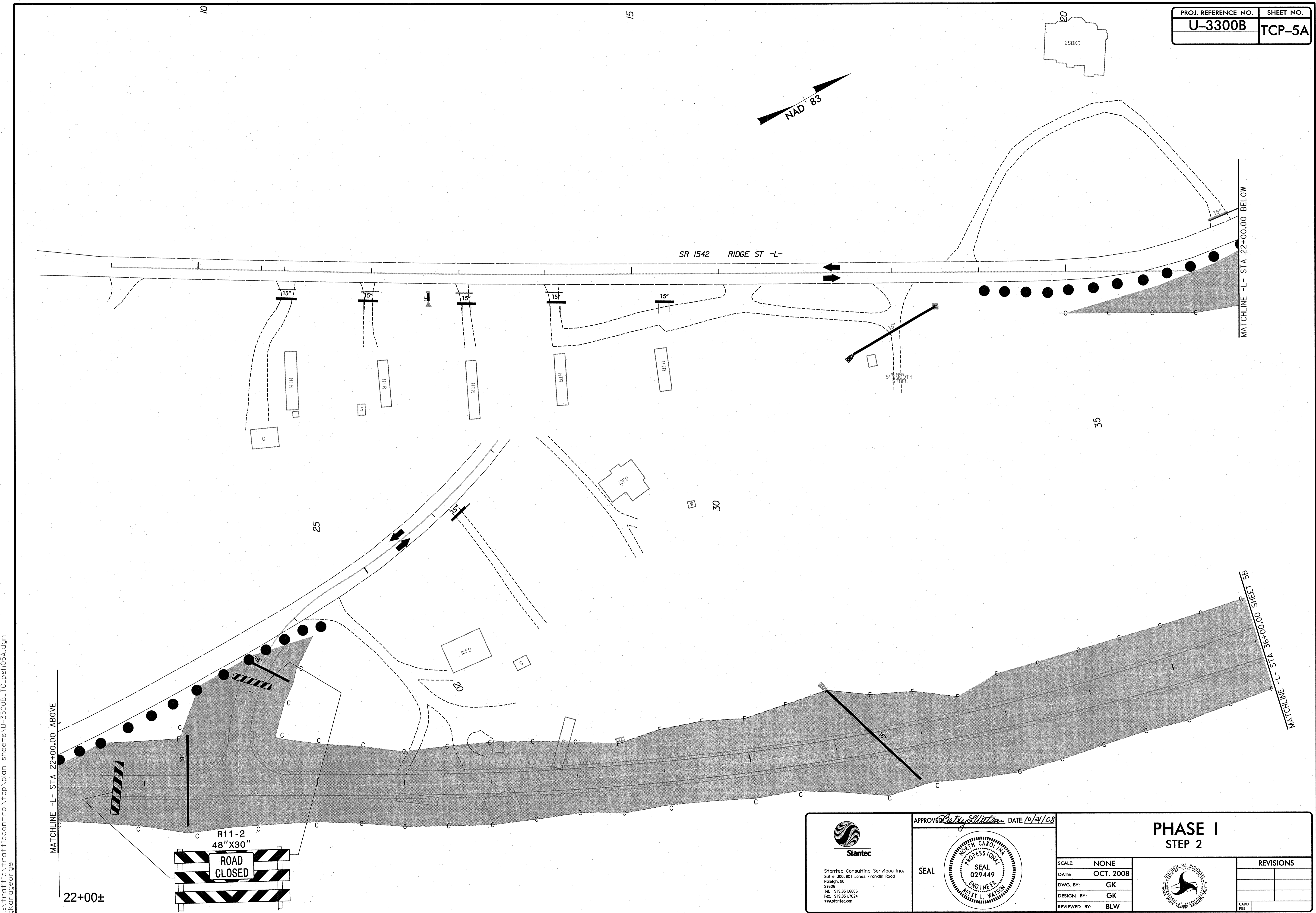
 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Betsy L. Watson</i> DATE: 10/21/08 	TEMPORARY PAVEMENT MARKING SCHEDULE							
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PROJ. REFERENCE NO.	SHEET NO.
U-3300B	TCP-5



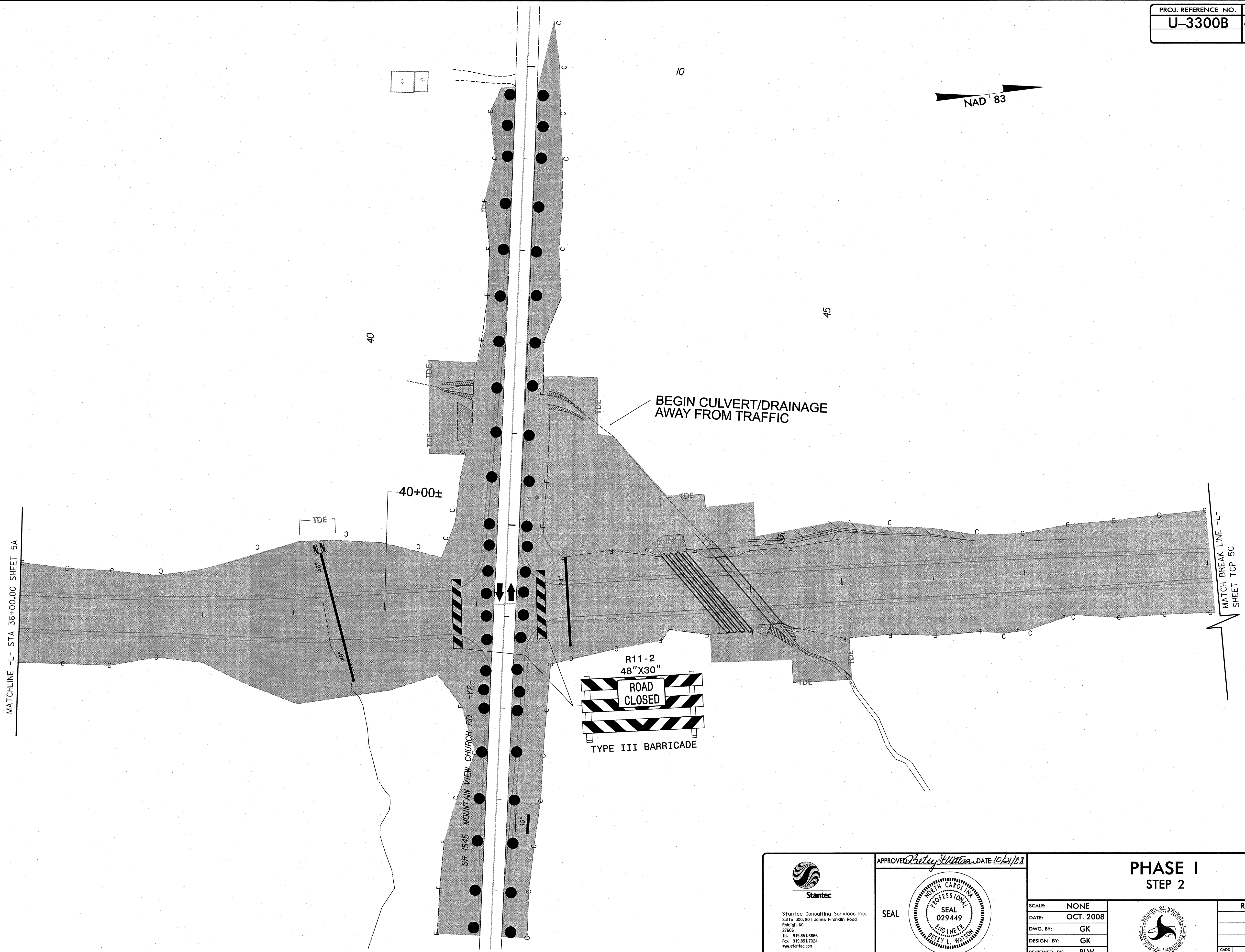
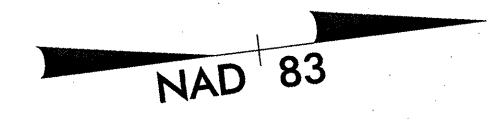
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 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>[Signature]</i> DATE: 10/21/08 SEAL	PHASE I STEP 2 OVERVIEW		SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK 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>						
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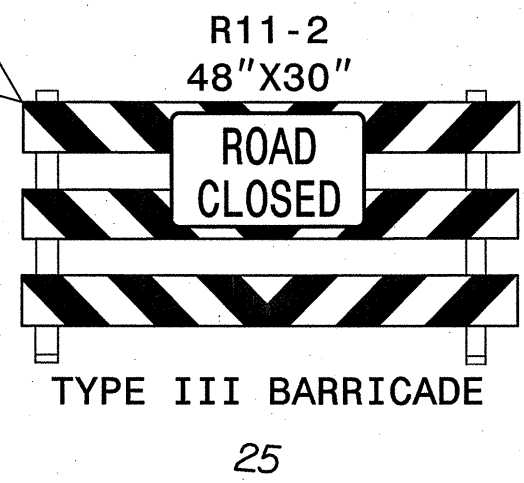
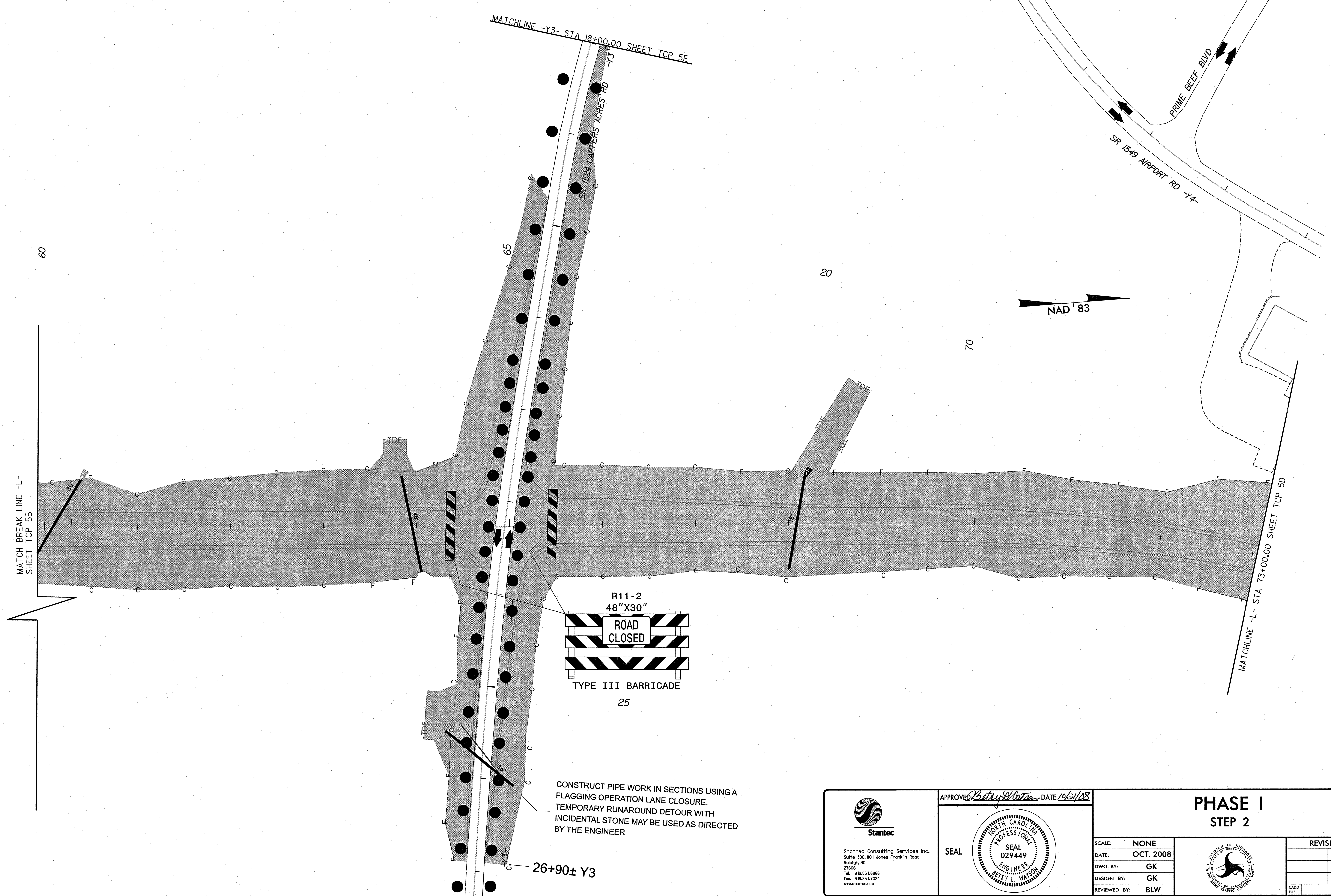
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<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	<p>APPROVED <i>[Signature]</i> DATE: 10/21/08</p>	<h3>PHASE I</h3> <h3>STEP 2</h3>		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS							
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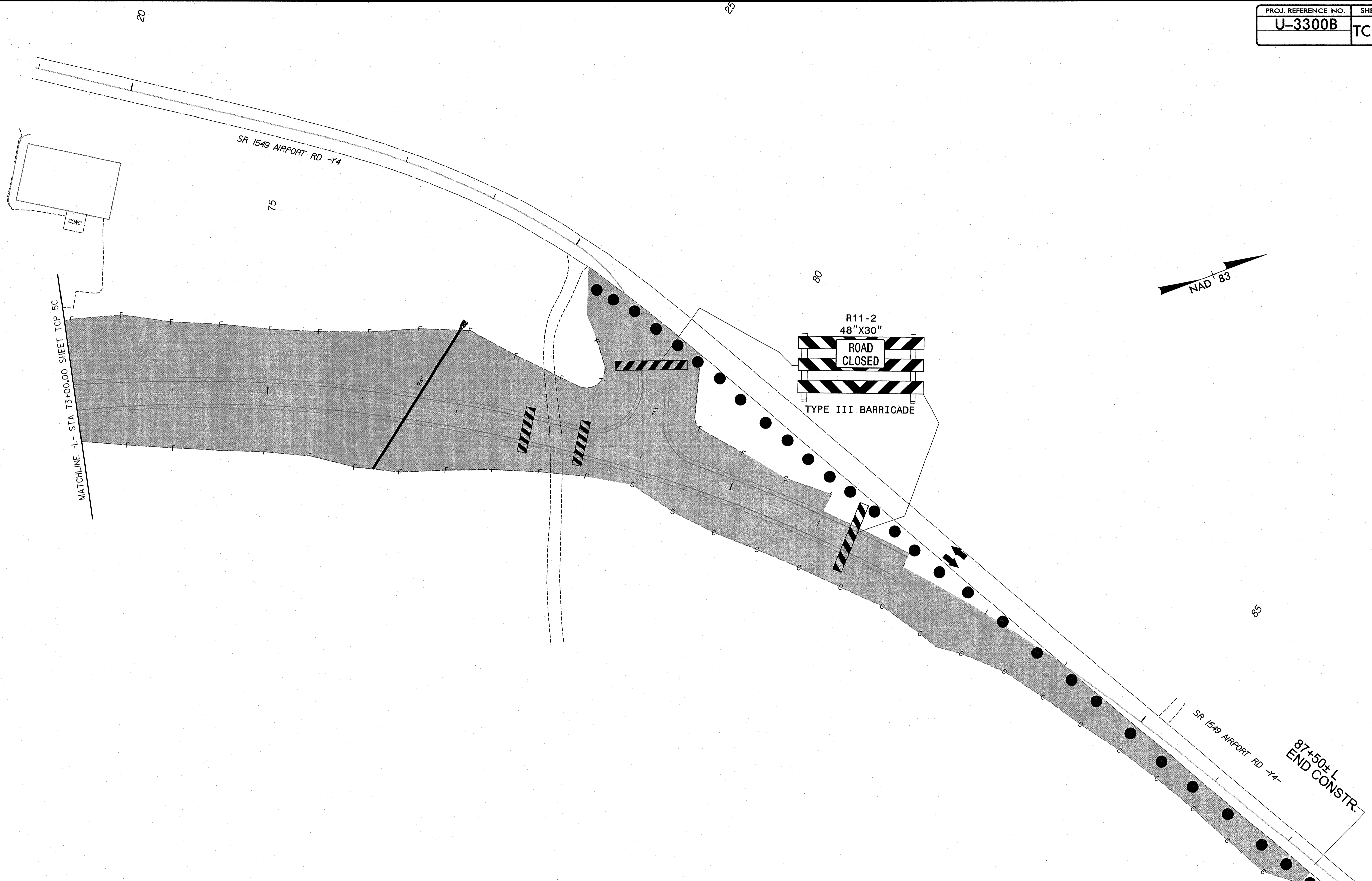
 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED <i>Patty L. Watson</i> DATE: 10/21/08 	PHASE I STEP 2		<table border="1"> <tr> <td>SCALE:</td> <td>NONE</td> <td rowspan="4"> </td> <td rowspan="4"> <table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> </td> </tr> <tr> <td>DATE:</td> <td>OCT. 2008</td> </tr> <tr> <td>DWG. BY:</td> <td>GK</td> </tr> <tr> <td>DESIGN BY:</td> <td>GK</td> </tr> <tr> <td>REVIEWED BY:</td> <td>BLW</td> <td>CADD FILE</td> <td> </td> </tr> </table>	SCALE:	NONE		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS								DATE:	OCT. 2008	DWG. BY:	GK	DESIGN BY:	GK	REVIEWED BY:	BLW	CADD FILE	
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CONSTRUCT PIPE WORK IN SECTIONS USING A FLAGGING OPERATION LANE CLOSURE. TEMPORARY RUNAROUND DETOUR WITH INCIDENTAL STONE MAY BE USED AS DIRECTED BY THE ENGINEER

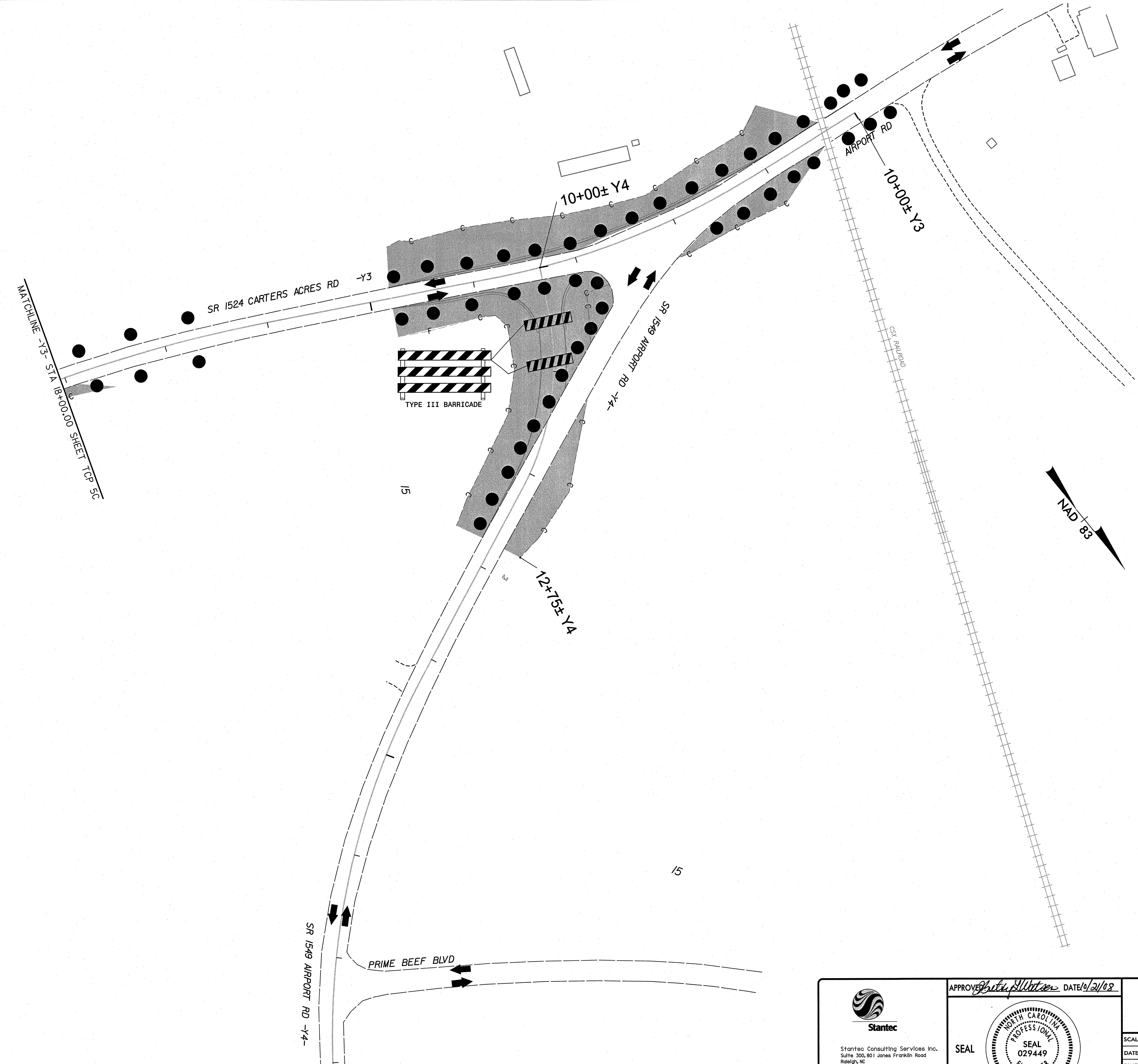
<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	<p>APPROVED <i>Betsy Ellenton</i> DATE: 10/21/08</p>	<h3>PHASE I</h3> <h4>STEP 2</h4>		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
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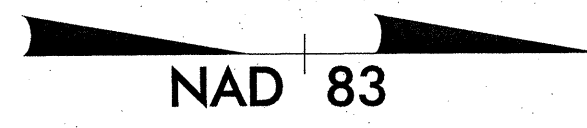
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<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com</p>	APPROVED <i>Pete Watson</i> DATE: 10/21/08 	PHASE I STEP 2			SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK 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>						
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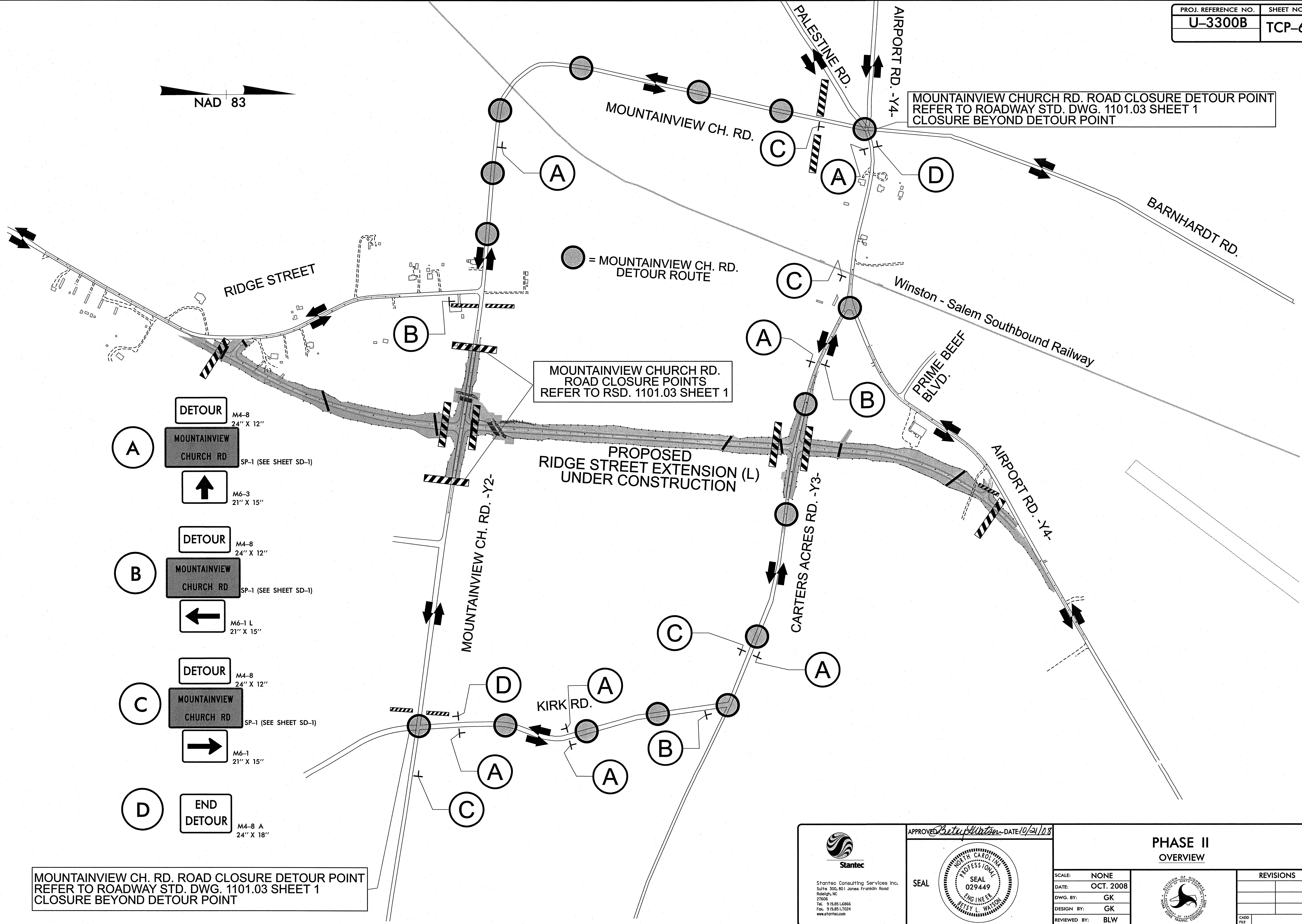


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<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	APPROVED: <i>[Signature]</i> DATE: 10/21/08 	PHASE I STEP 2					
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MOUNTAINVIEW CHURCH RD. ROAD CLOSURE DETOUR POINT
REFER TO ROADWAY STD. DWG. 1101.03 SHEET 1
CLOSURE BEYOND DETOUR POINT



- DETOUR** M4-8
24" X 12"

A MOUNTAINVIEW CHURCH RD

SP-1 (SEE SHEET SD-1)

↑ M6-3
21" X 15"
- DETOUR** M4-8
24" X 12"

B MOUNTAINVIEW CHURCH RD

SP-1 (SEE SHEET SD-1)

← M6-1 L
21" X 15"
- DETOUR** M4-8
24" X 12"

C MOUNTAINVIEW CHURCH RD

SP-1 (SEE SHEET SD-1)

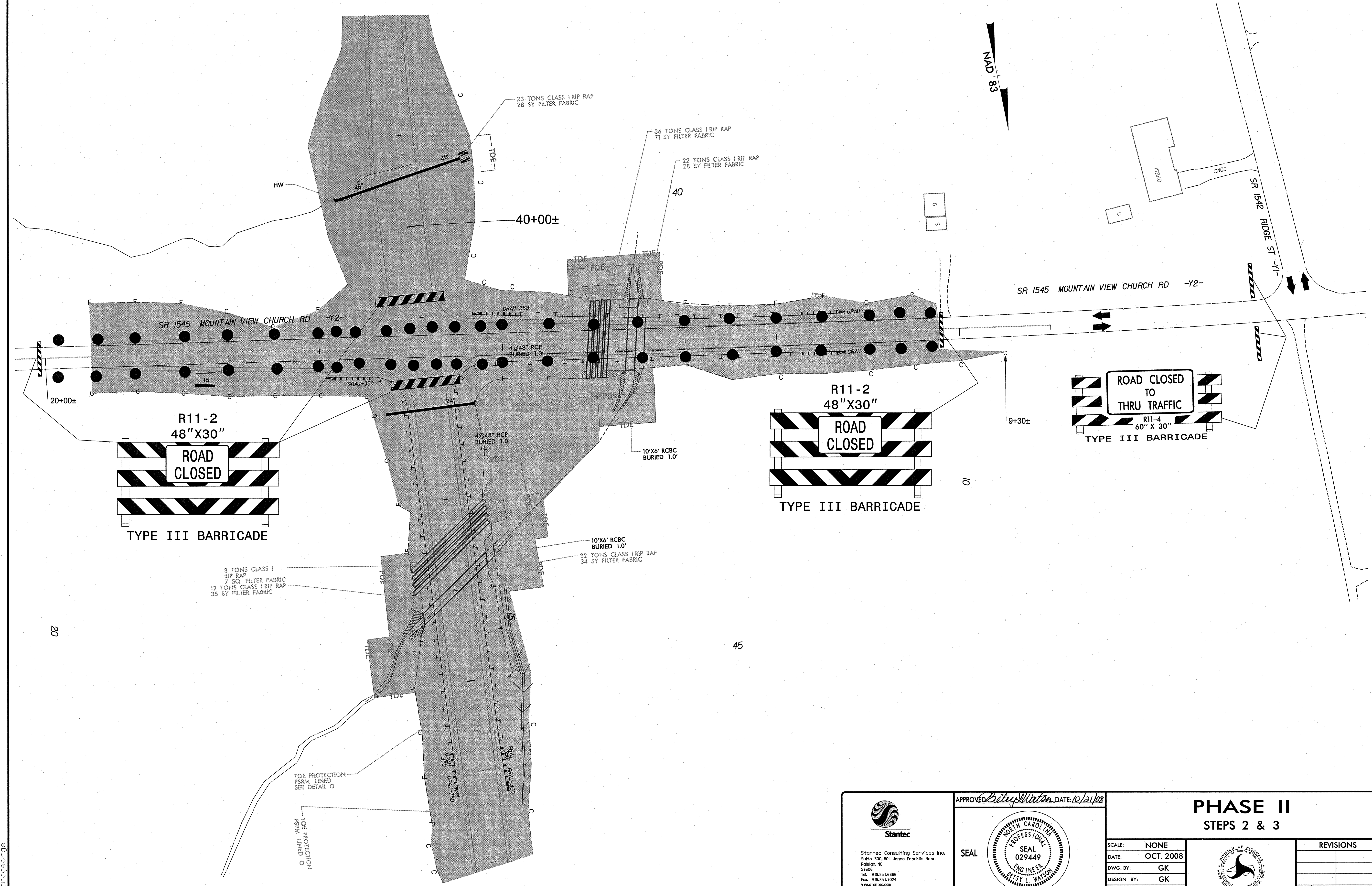
→ M6-1
21" X 15"
- END DETOUR** M4-8 A
24" X 18"

D

MOUNTAINVIEW CH. RD. ROAD CLOSURE DETOUR POINT
REFER TO ROADWAY STD. DWG. 1101.03 SHEET 1
CLOSURE BEYOND DETOUR POINT

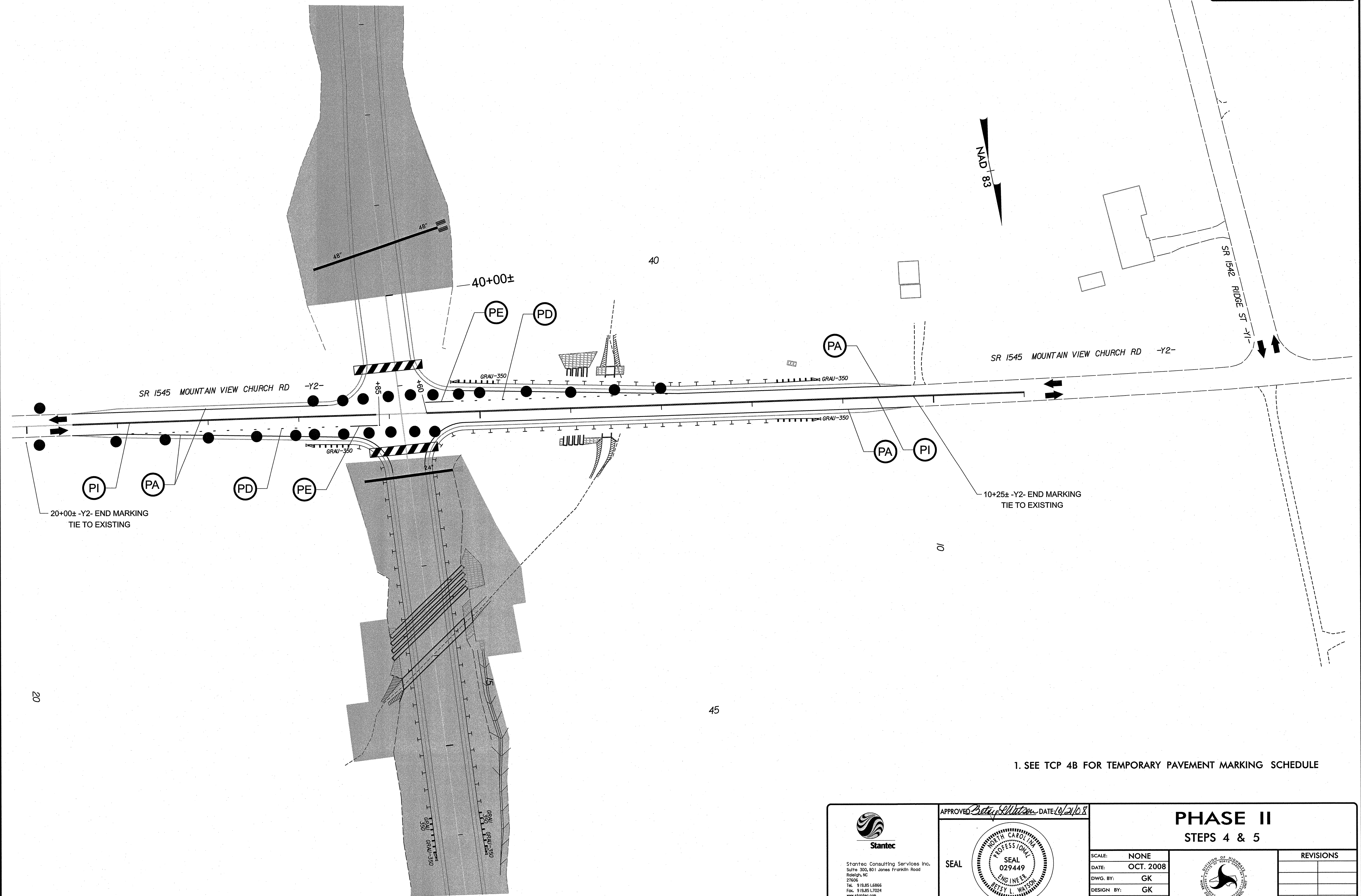
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 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Peter Watson</i> DATE: 10/21/08 	PHASE II OVERVIEW							
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<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7004 www.stantec.com</p>	APPROVED <i>Betsy Watson</i> DATE: 10/21/08 	PHASE II STEPS 2 & 3			SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK 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> <tr><td> </td><td> </td></tr> </table>								
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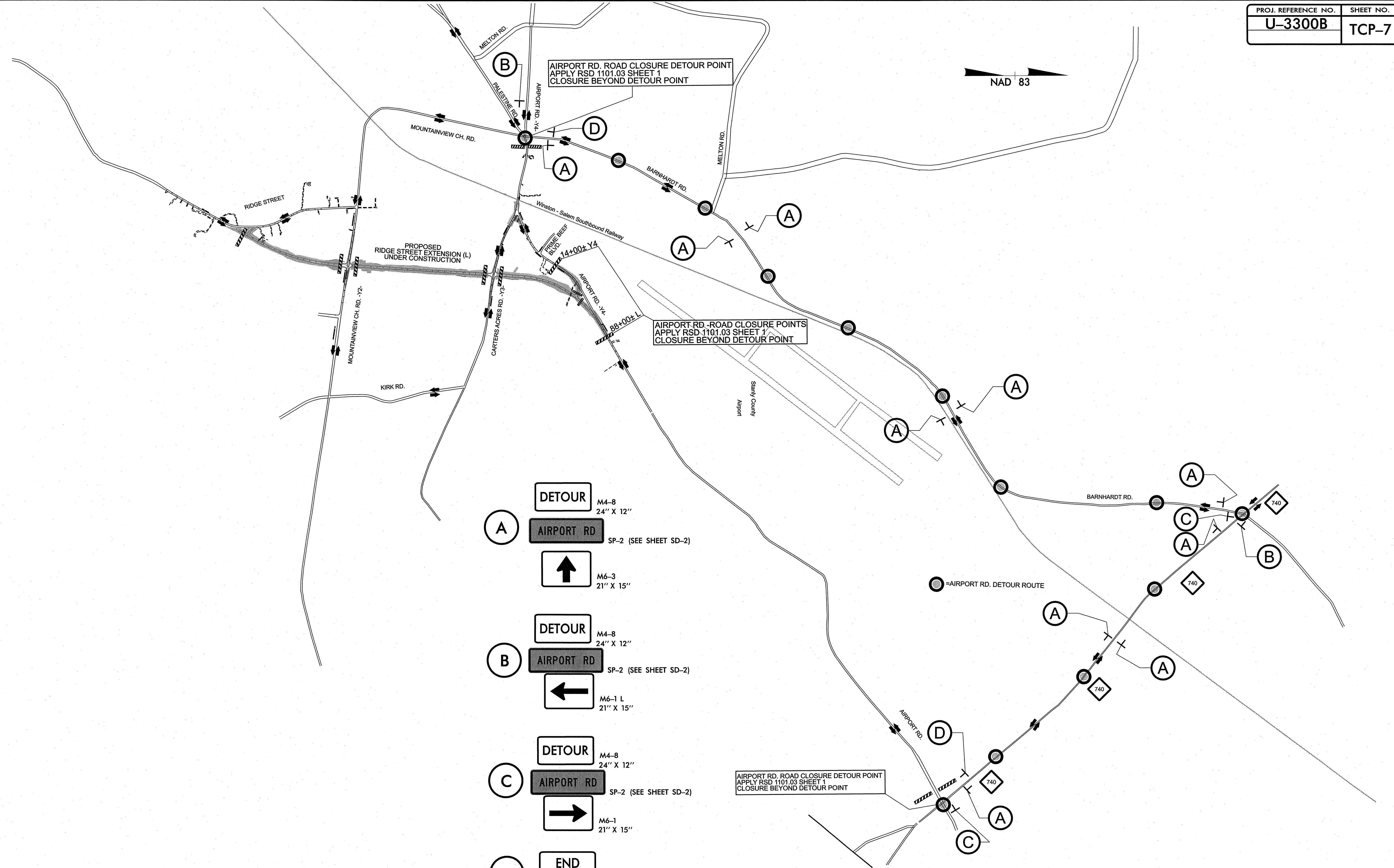
20+00± -Y2- END MARKING
TIE TO EXISTING

10+25± -Y2- END MARKING
TIE TO EXISTING

1. SEE TCP 4B FOR TEMPORARY PAVEMENT MARKING SCHEDULE

10/20/2008
 ut:\traffic\trafficcontrol\tcp\plan sheets\U-3300B_TC_psh068.dgn
 krcanegorje

<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com</p>	APPROVED <i>Betsy L. Watson</i> DATE <i>10/21/08</i> 	PHASE II STEPS 4 & 5																		
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- DETOUR** M4-8 24" X 12"

A **AIRPORT RD** SP-2 (SEE SHEET SD-2)

↑ M6-3 21" X 15"
- DETOUR** M4-8 24" X 12"

B **AIRPORT RD** SP-2 (SEE SHEET SD-2)

← M6-1 L 21" X 15"
- DETOUR** M4-8 24" X 12"

C **AIRPORT RD** SP-2 (SEE SHEET SD-2)

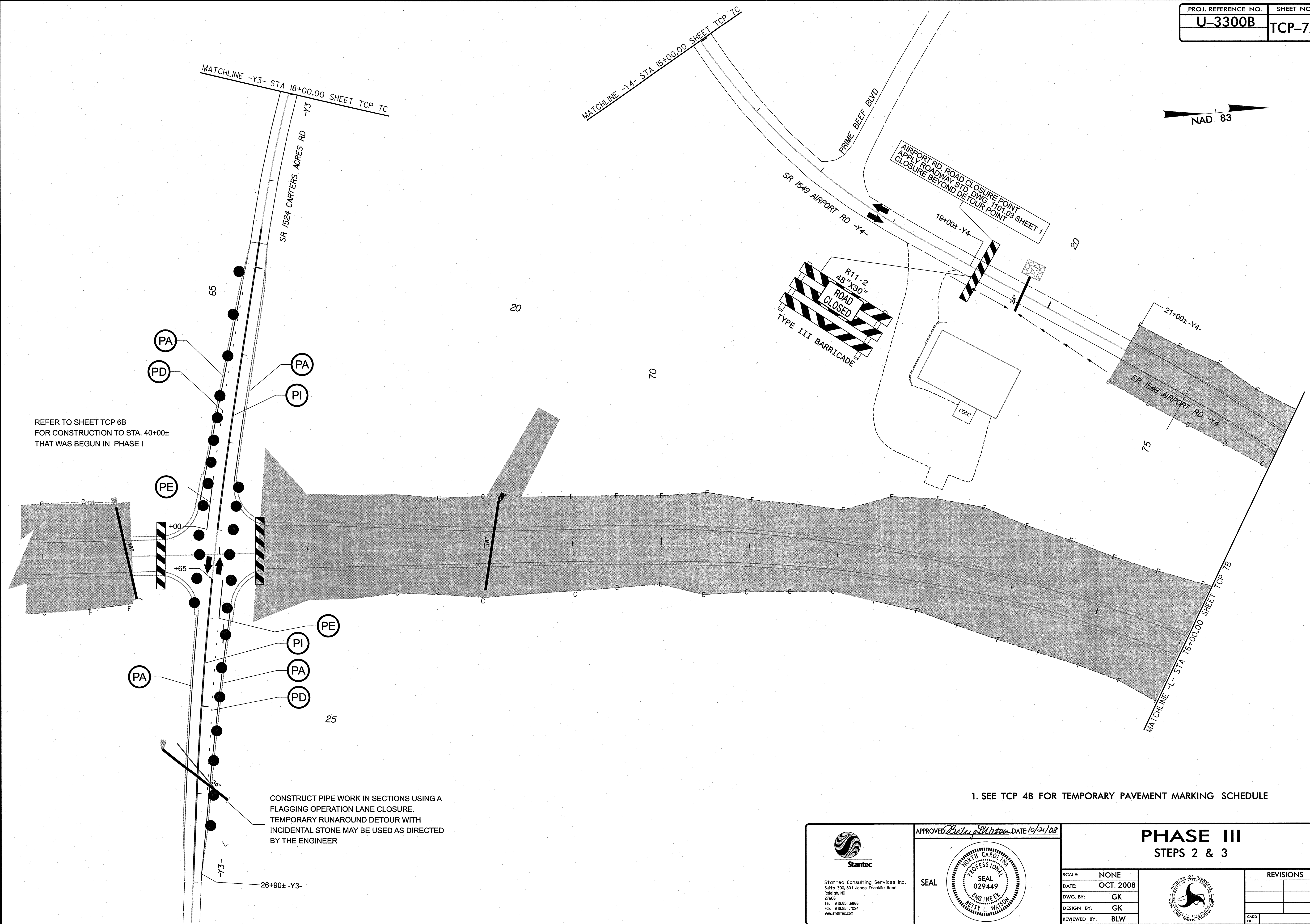
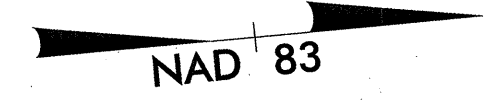
→ M6-1 21" X 15"
- END DETOUR** M4-8 A 24" X 18"

D

AIRPORT RD. ROAD CLOSURE DETOUR POINT
APPLY RSD 1101.03 SHEET 1
CLOSURE BEYOND DETOUR POINT

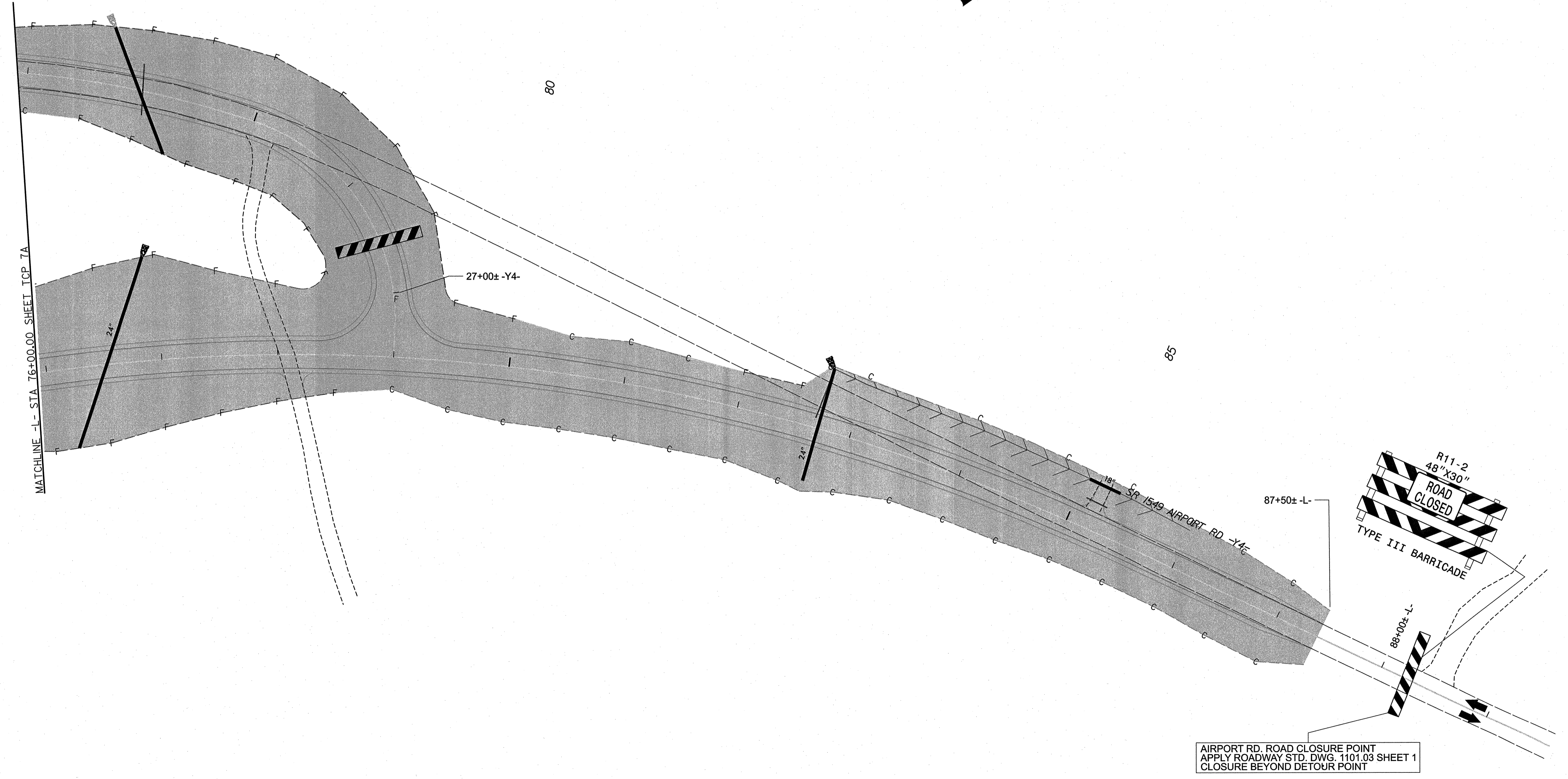
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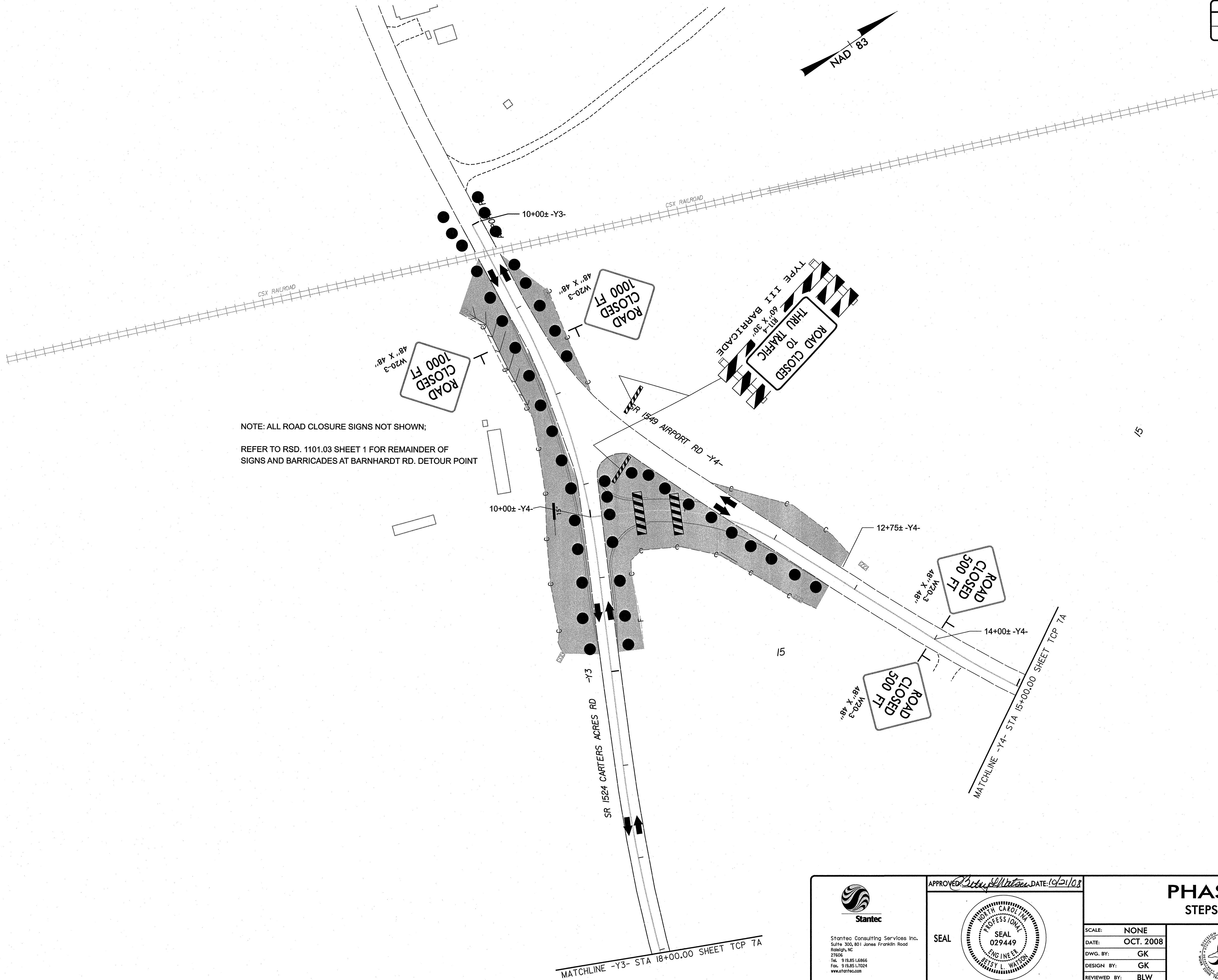
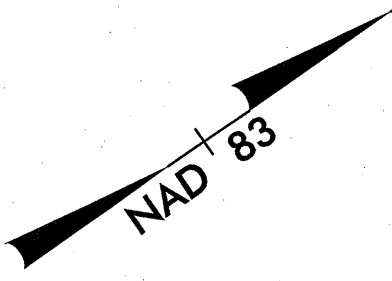
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 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Patsy L. Watson</i> DATE: 10/21/08 	PHASE III STEPS 2 & 3		<table border="1"> <tr> <td>SCALE:</td> <td>NONE</td> <td rowspan="4"> </td> <td rowspan="4"> <table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> </td> </tr> <tr> <td>DATE:</td> <td>OCT. 2008</td> </tr> <tr> <td>DWG. BY:</td> <td>GK</td> </tr> <tr> <td>DESIGN BY:</td> <td>GK</td> </tr> <tr> <td>REVIEWED BY:</td> <td>BLW</td> <td>CADD FILE</td> <td> </td> </tr> </table>	SCALE:	NONE		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS								DATE:	OCT. 2008	DWG. BY:	GK	DESIGN BY:	GK	REVIEWED BY:	BLW	CADD FILE	
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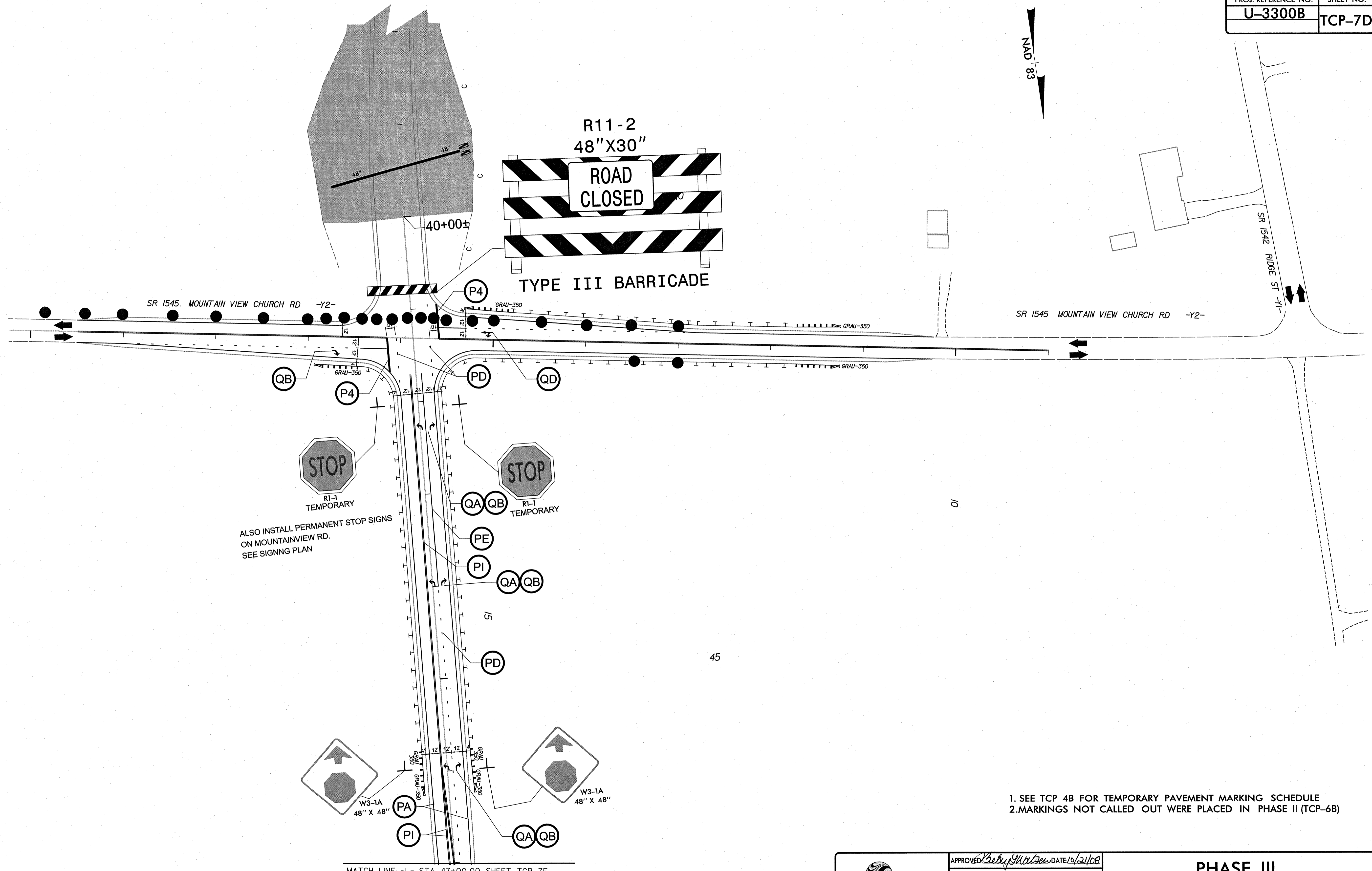
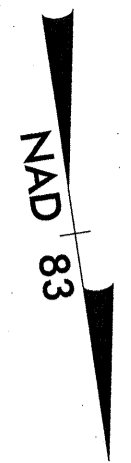
 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>[Signature]</i> DATE: 10/21/08 SEAL	PHASE III STEPS 2 & 3			SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW	REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
AIRPORT RD. ROAD CLOSURE POINT APPLY ROADWAY STD. DWG. 1101.03 SHEET 1 CLOSURE BEYOND DETOUR POINT		R11-2 48"X30" ROAD CLOSED TYPE III BARRICADE		CADD FILE								



NOTE: ALL ROAD CLOSURE SIGNS NOT SHOWN;
 REFER TO RSD. 1101.03 SHEET 1 FOR REMAINDER OF
 SIGNS AND BARRICADES AT BARNHARDT RD. DETOUR POINT

10/20/2008
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 kcarageorge

<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	APPROVED: <i>Betsy L. Watson</i> DATE: 10/21/08 	PHASE III STEPS 2 & 3																	
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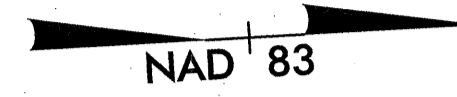
ALSO INSTALL PERMANENT STOP SIGNS ON MOUNTAINVIEW RD. SEE SIGNNG PLAN

1. SEE TCP 4B FOR TEMPORARY PAVEMENT MARKING SCHEDULE
2. MARKINGS NOT CALLED OUT WERE PLACED IN PHASE II (TCP-6B)

MATCH LINE -L- STA 47+00.00 SHEET TCP 7E

10/20/2008 U:\TrafficControl\TCP\Plan Sheets\U-3300B_TC.psh07D.dgn gkar.gaeor.ge

<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7004 www.stantec.com</p>	<p>APPROVED: <i>[Signature]</i> DATE: 10/21/08</p>	<p>PHASE III STEP 4</p>									
	<p>SCALE: NONE</p> <p>DATE: OCT. 2008</p> <p>DWG. BY: GK</p> <p>DESIGN BY: GK</p> <p>REVIEWED BY: BLW</p>		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS						
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MATCHLINE -L- STA 47+00.00 SHEET TCP 7D

PD

PI

ROAD
CLOSED
1500 FT
W20-3
48" X 48"

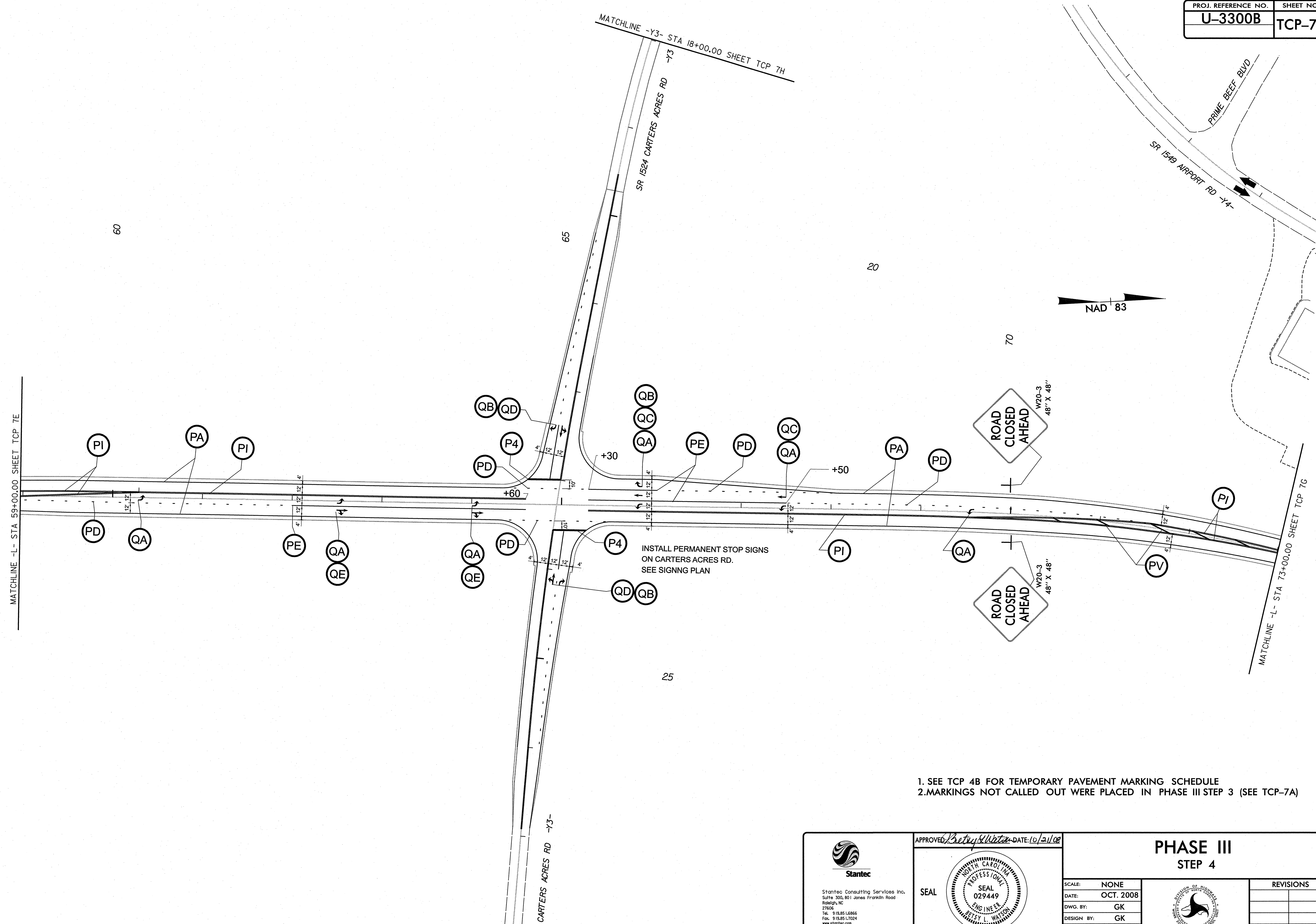
ROAD
CLOSED
1500 FT
W20-3
48" X 48"

MATCHLINE -L- STA 59+00.00 SHEET TCP 7F

1. SEE TCP 4B FOR TEMPORARY PAVEMENT MARKING SCHEDULE

10/20/2008
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 gkar.gageorge

 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Bob Watson</i> DATE: 10/21/08 	PHASE III STEP 4		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
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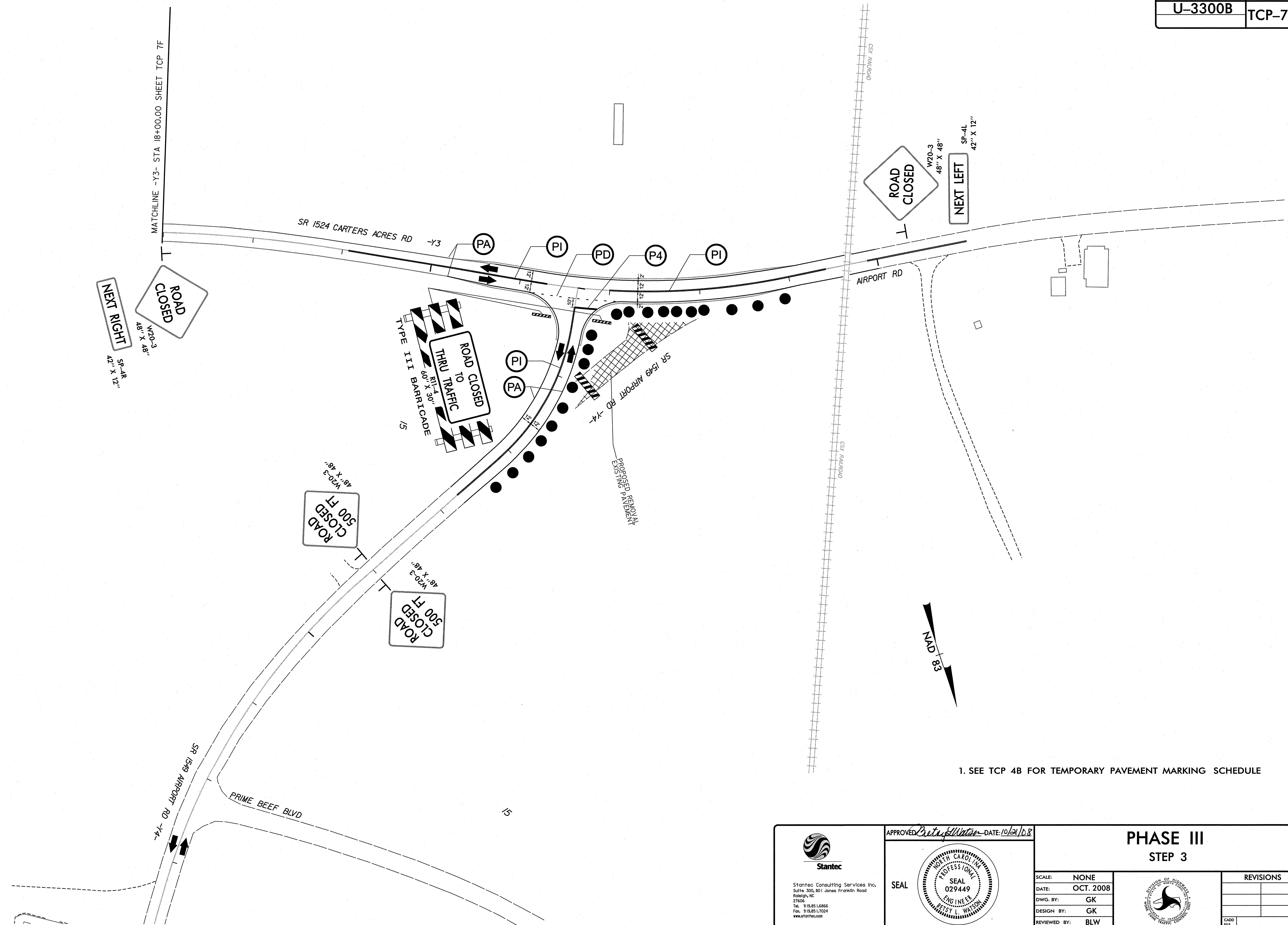


INSTALL PERMANENT STOP SIGNS ON CARTERS ACRES RD. SEE SIGNING PLAN

- SEE TCP 4B FOR TEMPORARY PAVEMENT MARKING SCHEDULE
- MARKINGS NOT CALLED OUT WERE PLACED IN PHASE III STEP 3 (SEE TCP-7A)

10/20/2008
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 gkar.gcor@ge

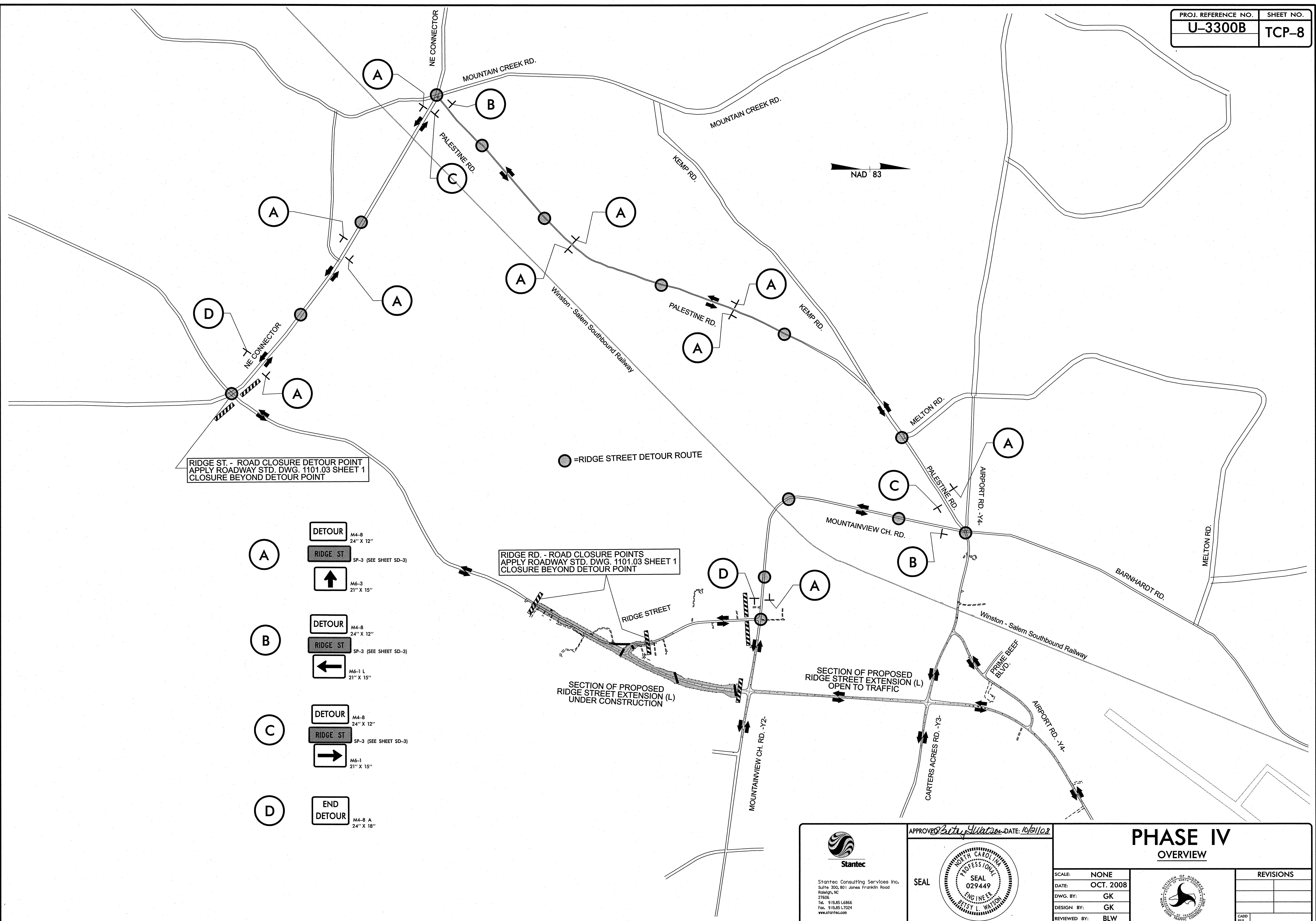
 Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com	APPROVED: <i>Betsy & Walter</i> DATE: 10/21/08	PHASE III STEP 4							
		SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					



1. SEE TCP 4B FOR TEMPORARY PAVEMENT MARKING SCHEDULE

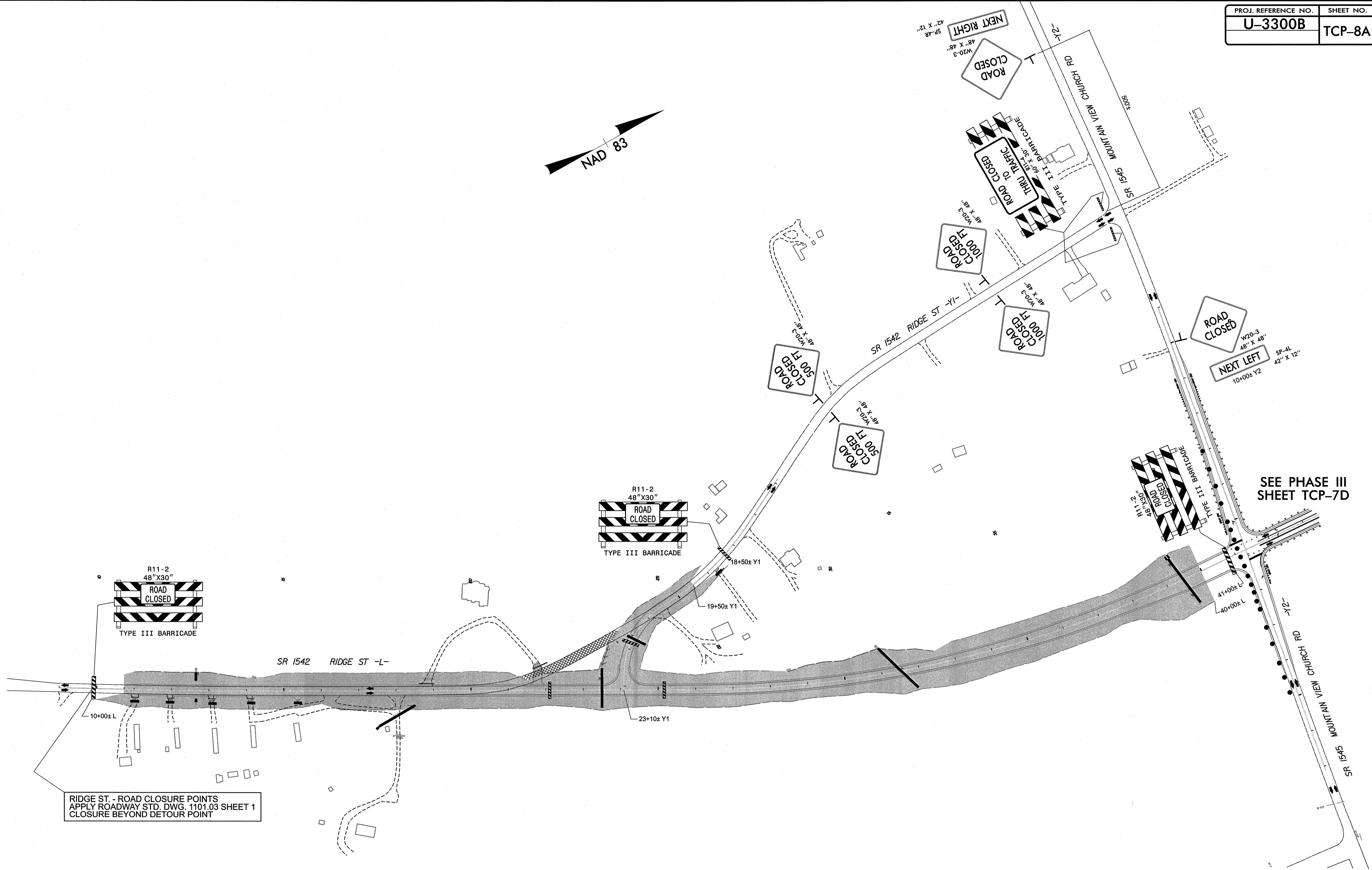
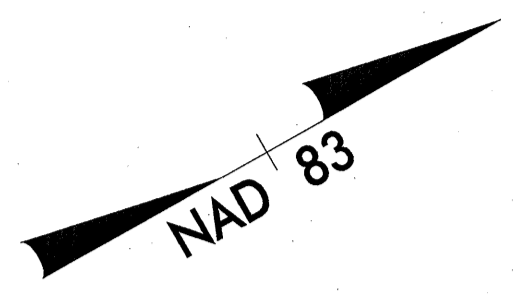
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 skan@geogebra

<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	APPROVED: <i>Betsy L. Watson</i> DATE: 10/21/08 	PHASE III STEP 3					
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 dkcarageorge

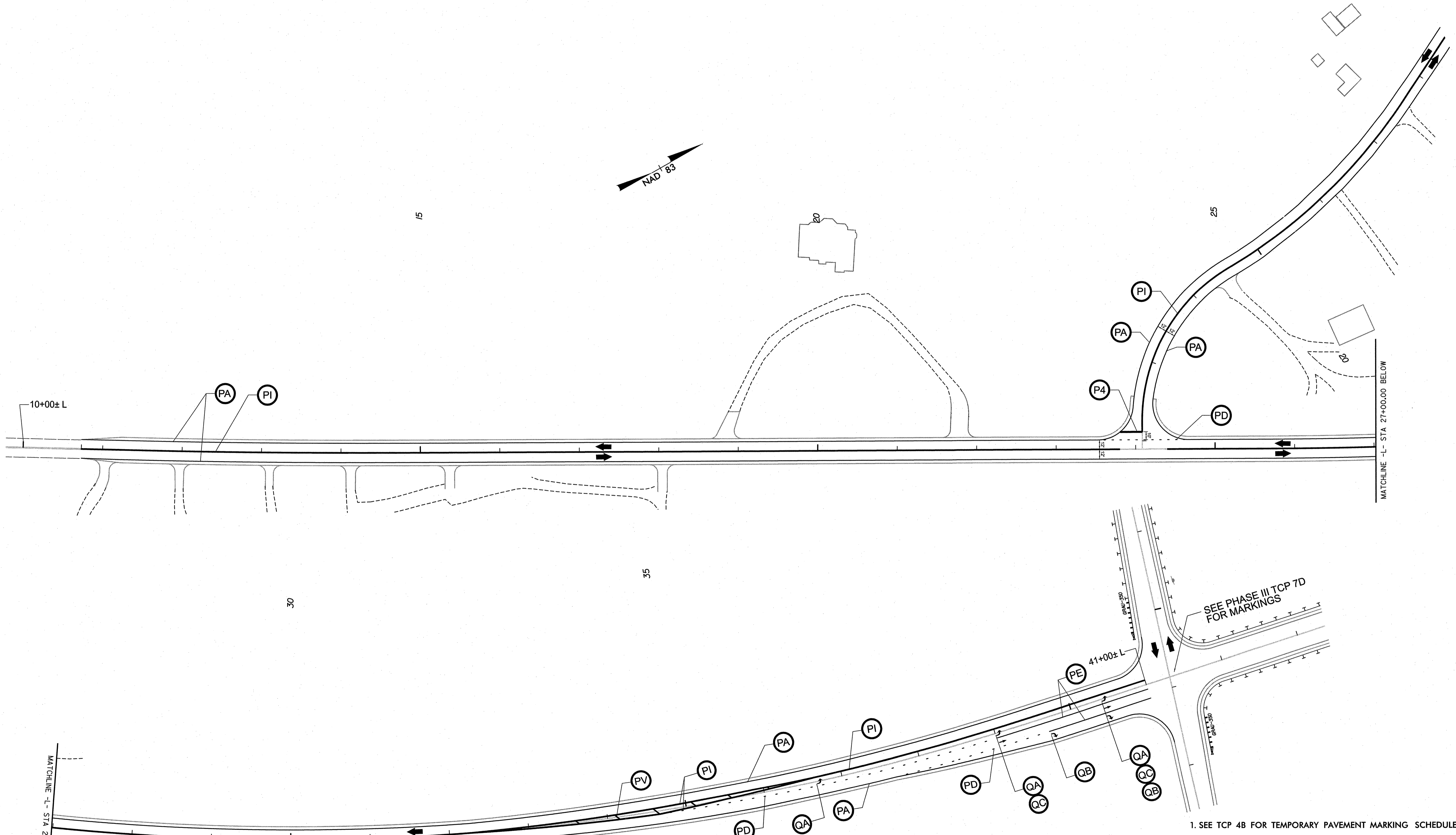
<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	APPROVED: <i>Betsy Watson</i> DATE: 10/6/08 	PHASE IV OVERVIEW							
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RIDGE ST. - ROAD CLOSURE POINTS
 APPLY ROADWAY STD. DWG. 1101.03 SHEET 1
 CLOSURE BEYOND DETOUR POINT

10/20/2008
 U:\TrafficControl\Tcp\plan sheets\U-3300B_TC.psh08A.dgn
 gkar.gage@ge

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		SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK 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>					



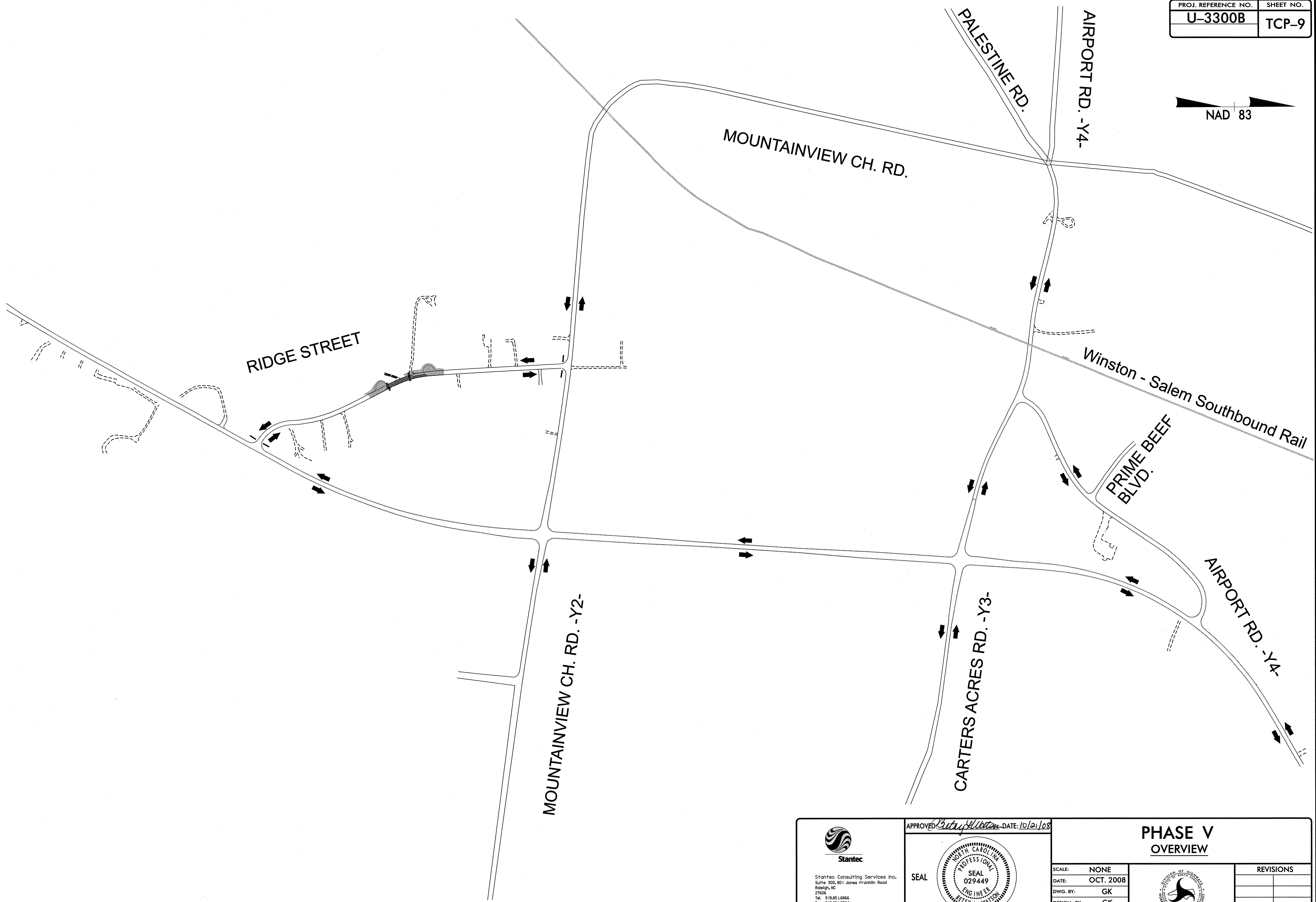
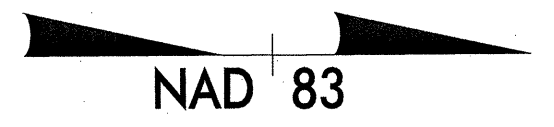
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 gkar.agg@stg.com

SEE PHASE III TCP 7D FOR MARKINGS


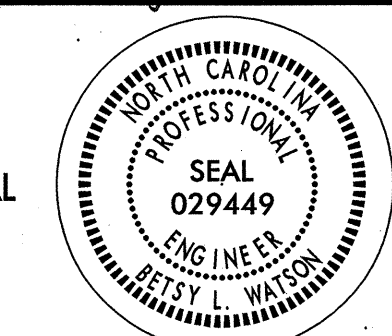

1. SEE TCP 4B FOR TEMPORARY PAVEMENT MARKING SCHEDULE

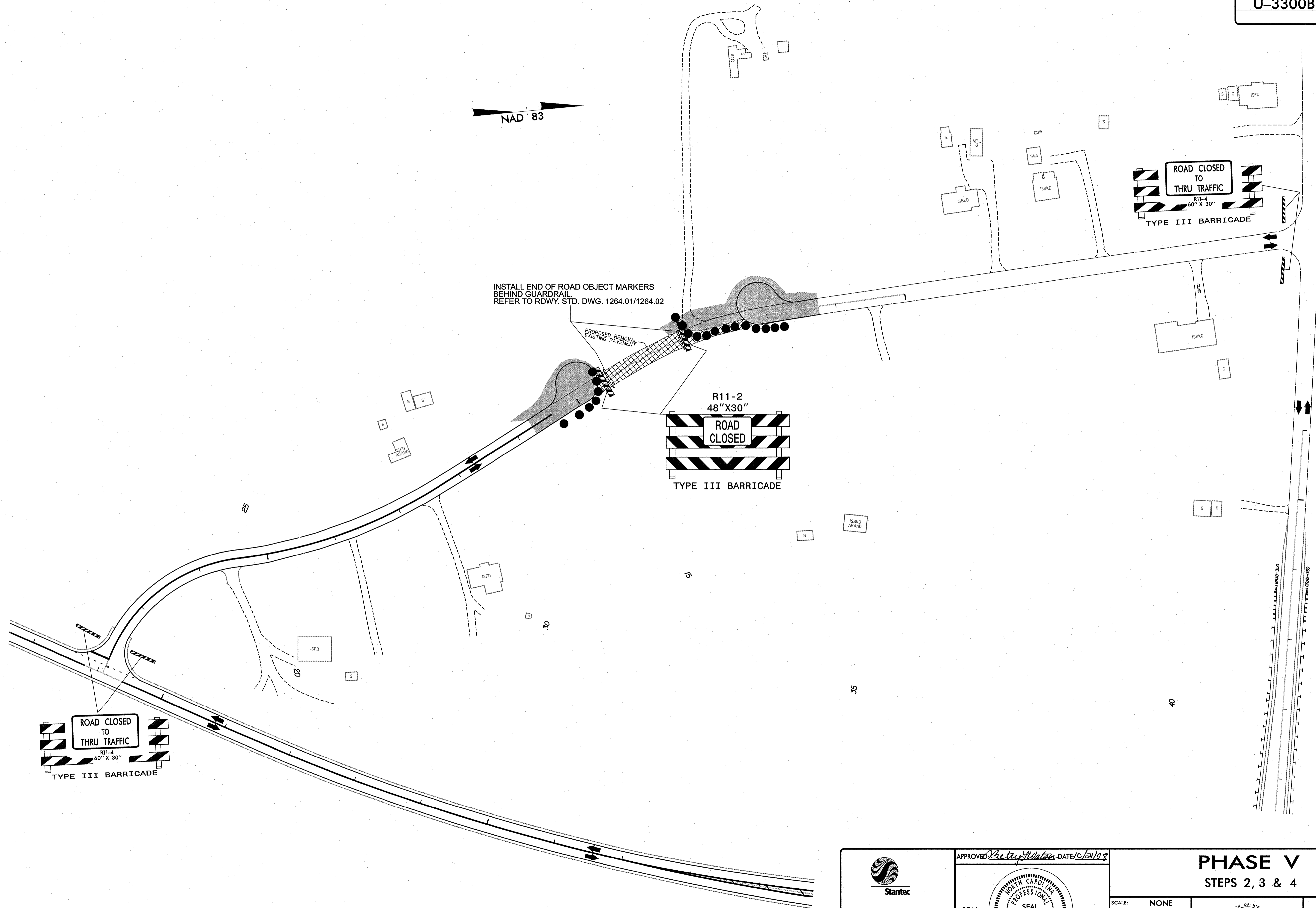
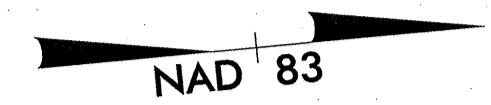
<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	APPROVED: <i>[Signature]</i> DATE: 10/21/08 	PHASE IV STEPS 4 & 5			SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW	REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								
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PROJ. REFERENCE NO.	SHEET NO.
U-3300B	TCP-9



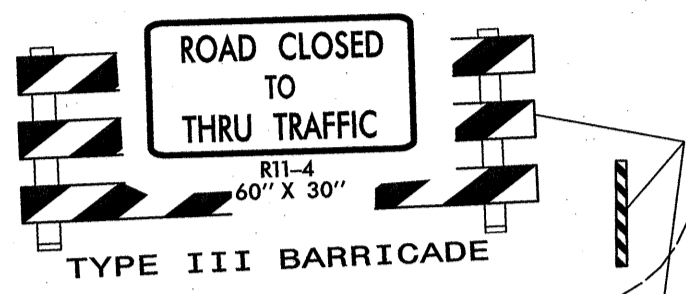
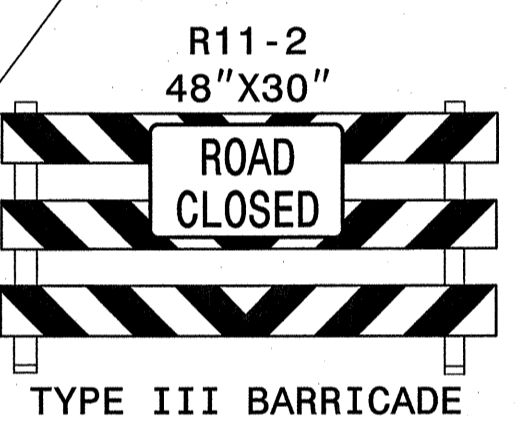
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 dkcar@george

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	SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS						
REVISIONS											



INSTALL END OF ROAD OBJECT MARKERS
BEHIND GUARDRAIL.
REFER TO RDWY. STD. DWG. 1264.01/1264.02

PROPOSED REMOVAL
EXISTING PAVEMENT



10/20/2008
 us:\traffic\trafficcontrol\tcp\plan_sheets\U-3300B_TC_psh09A.dgn
 gkar@stantec.com

<p>Stantec Consulting Services Inc. Suite 300, 80 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</p>	APPROVED <i>Betsy Watson</i> DATE 10/21/08 	PHASE V STEPS 2, 3 & 4					
	SCALE: NONE DATE: OCT. 2008 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW		REVISIONS <table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>				