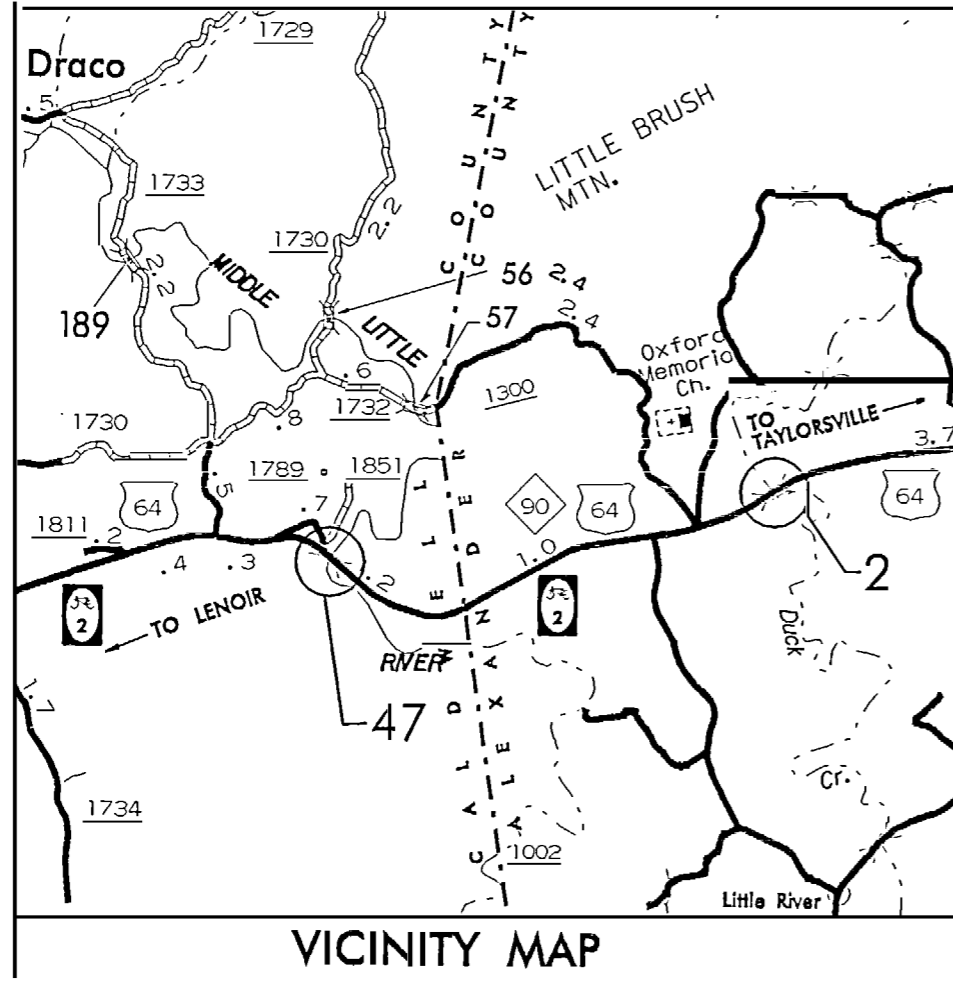


PROJ: ALEXANDER #2 CALDWELL #47 BK-5101B



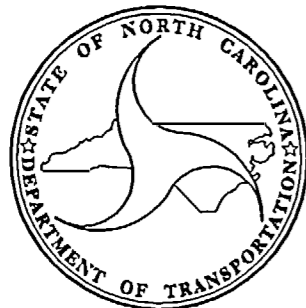
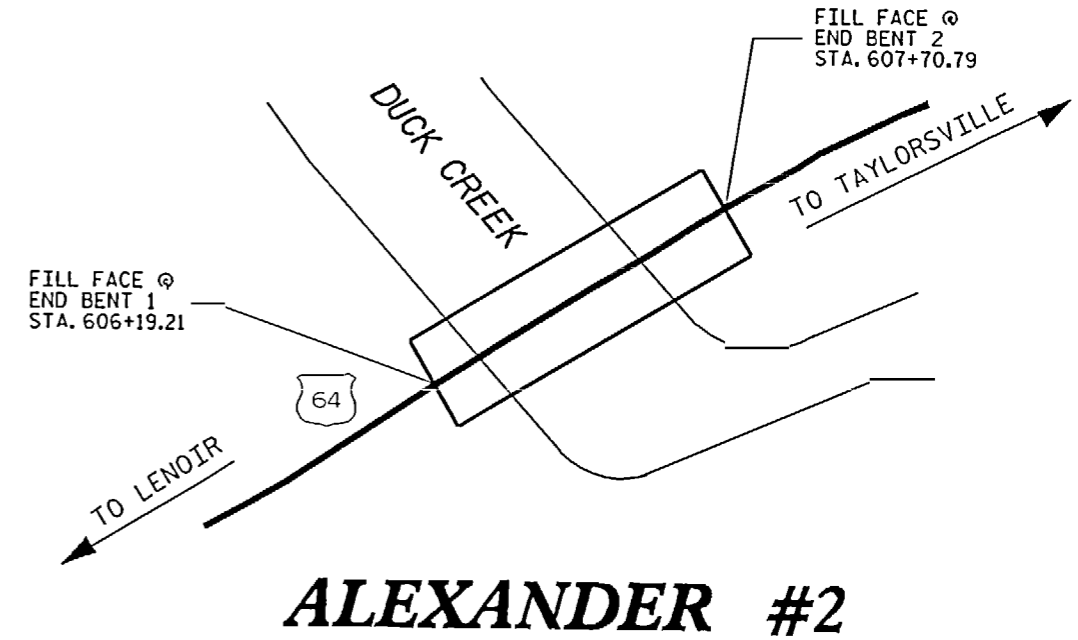
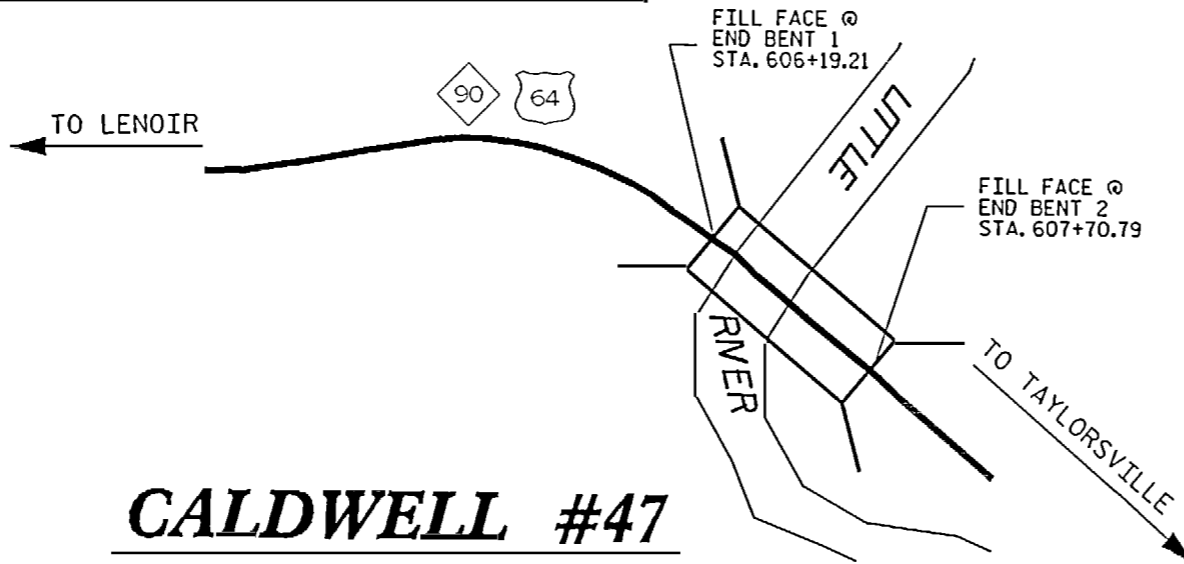
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALEXANDER & CALDWELL COUNTIES

**LOCATION: CALDWELL CO. BRG. #47, US 64 -NC90, OVER MIDDLE
LITTLE RIVER; ALEXANDER CO. BRG. #2, US 64, OVER
DUCK CREEK.**

**TYPE OF WORK: BRIDGE DECK REHABILITATION WITH LATEX
MODIFIED CONCRETE.**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BK-5101B	1	7
STATE FUNDING	F.A. FUNDING	DESCRIPTION	
42579.3.2		CONST	
42579.3.1		PE	



DESIGN DATA
ALEXANDER #2
ADT 2005 = 5000
ADT 2025 = 7400
CALDWELL #47
ADT 2004 = 3300
ADT 2025 = 6600

PROJECT LENGTH
ALEXANDER #2
TOTAL LENGTH HYDRO-DEMO PROJECT = .029 MILE
CALDWELL #47
TOTAL LENGTH HYDRO-DEMO PROJECT = .029 MILE

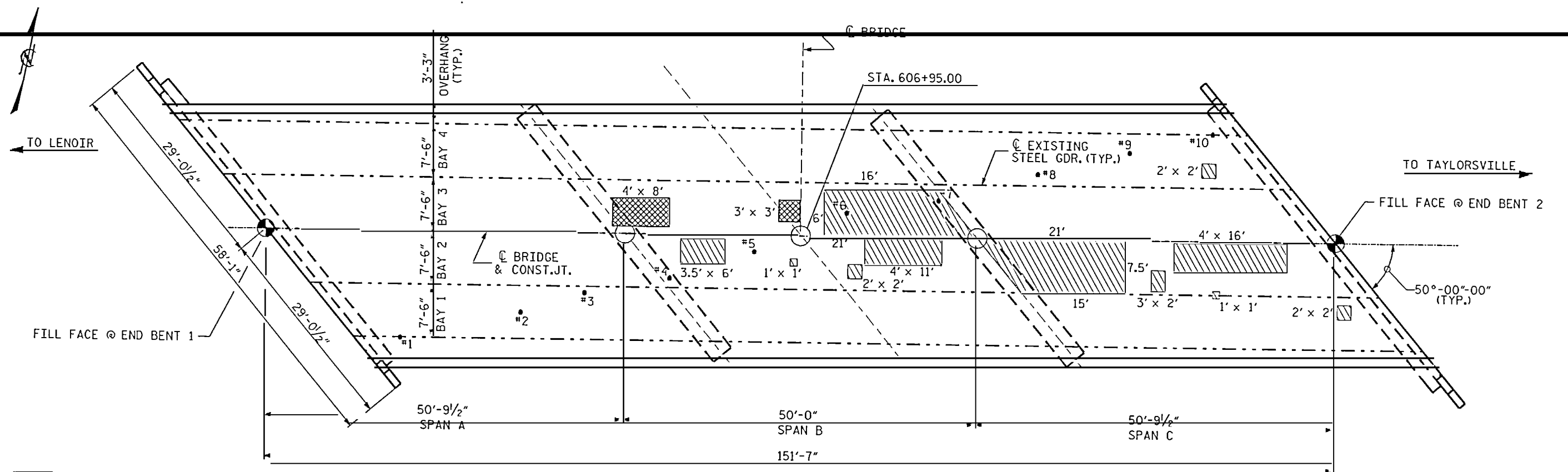
Prepared in the Office of:
DIVISION OF BRIDGE MANAGEMENT

2006 STANDARD SPECIFICATIONS

LETTING DATE:
10-22-09

DAN HOLDERMAN, PE
PROJECT ENGINEER



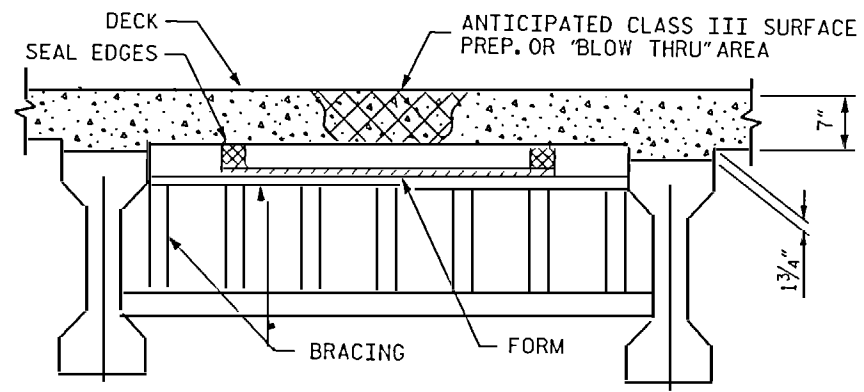


- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR
- APPROX. TEST BORING LOCATION

NOTES

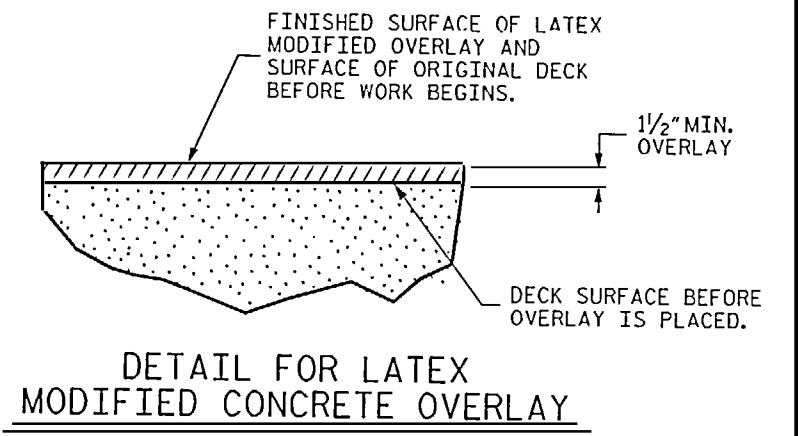
FOR REPAIR OF BRIDGE WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.
 SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.
 FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .
 FOR UNDER DECK CONTAINMENT SEE SPECIAL PROVISIONS.
 THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN -OFF WATER FROM THE HYDRO- DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.
 THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE.
 FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.
 FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.
 FOR CLASS AA CONCRETE SEE SPECIAL PROVISIONS.

PLAN VIEW



TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COST FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

P.I. STA. = 608+00
 ELEV. = 1133.57
 VC = 900'
 -1.45% +5.00%

© STA. 606+19.21 © STA. 607+70.79
 @ FILL FACE @ FILL FACE
 CR. EL. 1138.79 CR. EL. 1140.33

PROJECT NO. BK-5101B
 COUNTY: ALEXANDER
 STATION: 606+95.00-L-
 DECK REHAB BRIDGE NO. 2

TOTAL BILL OF MATERIAL

** DECK SCARIFICATION	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	UNDER DECK CONTAINMENT	HYDRO-DEMOLITION	LATEX MODIFIED CONCRETE VERY EARLY STRENGTH	* CLASS AA CONCRETE	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOOR	PAVEMENT MARKING	SNOWPLOWABLE RAISED PAVEMENT MARKERS	ASPHALT CONCRETE SURFACE COURSE TYPE SF 9.5A
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO. FT.	SO.YDS.	C.Y.	C.Y.	LUMP SUM	SO. FT.	LF	EA	TONS
909	524	49	0	77.0	573	50	0	LUMP SUM	4953	360	20	40

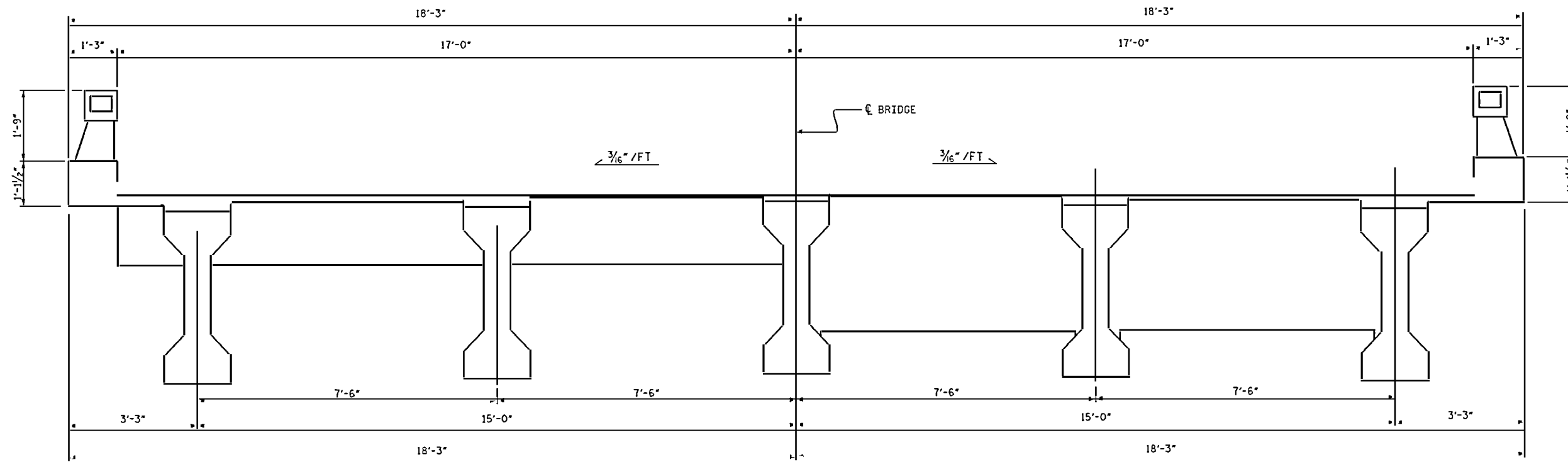
* QUANTITY SHOWN IS FOR INFORMATION ONLY. ** INCLUDES APPROACH MILLING.

DRAWN BY : STS/CLB DATE : 06/09
 CHECKED BY : EBN DATE : 07/09
 31-AUG-2009 15:10 cbr1ght AT BGMU240325

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 SCALE: 1/2" = 1'-0"
 PLAN VIEW OF BRIDGE
 #2 ON US 64 OVER
 DUCK CREEK
 34'-0" CLEAR ROADWAY-(40°-00' SKEW)

REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			6		

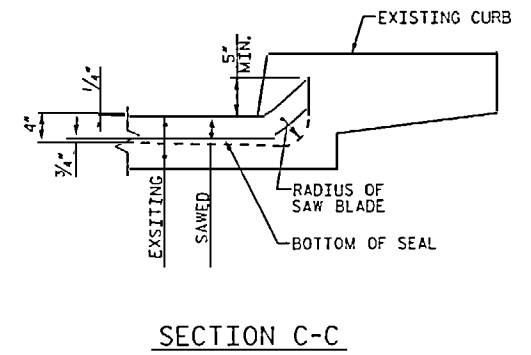
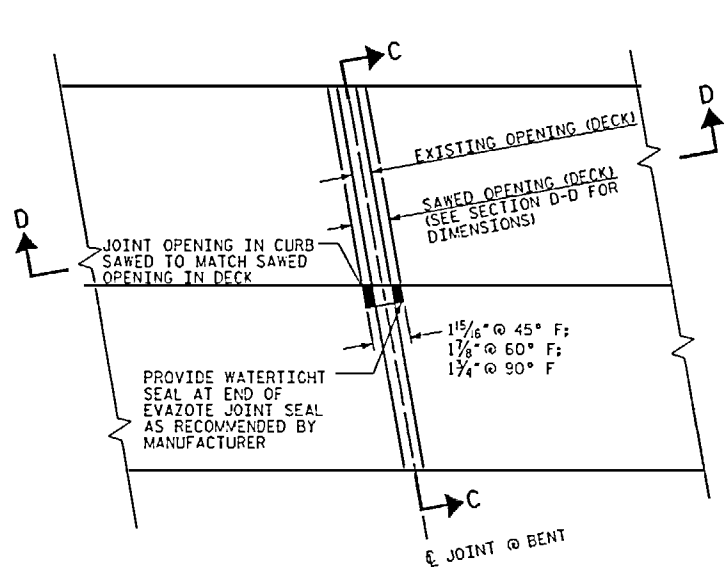
TOTAL SHEETS: 7



TYPICAL SECTION

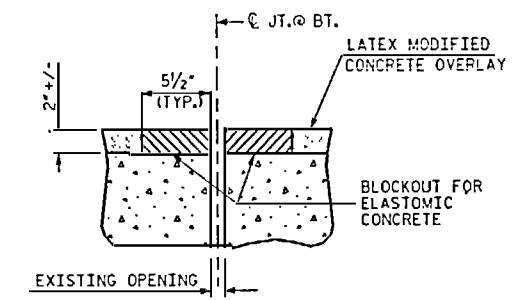
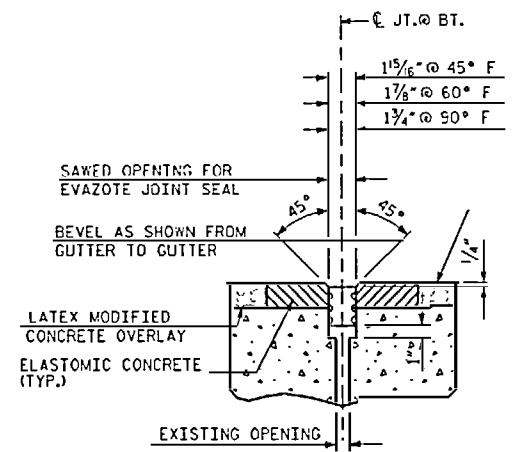
NOTES:

- ALL JOINTS, SHALL BE REPLACED WITH AN EVAZOTE SEAL.
- FOR EVAZOTE JOINT SEAL, SEE SPECIAL PROVISIONS.
- THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.
- OPENINGS ARE BASED ON A NOMINAL UNCOMPRESSED SEAL WIDTH OF 2 1/2".
- THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.



ELASTOMERIC CONCRETE	
BENT #1	6.7 (CU. FT.)
BENT #2	6.7 (CU. FT.)
* TOTAL	13.4 (CU. FT.)

* BASED ON THE MINIMUM BLOCKOUT SHOWN.



EVAZOTE JOINT SEAL DETAILS

SECTION D-D
EVAZOTE JOINT SEAL
(PRE-SAWED ELASTOMIC
CONCRETE DIMENSIONS)

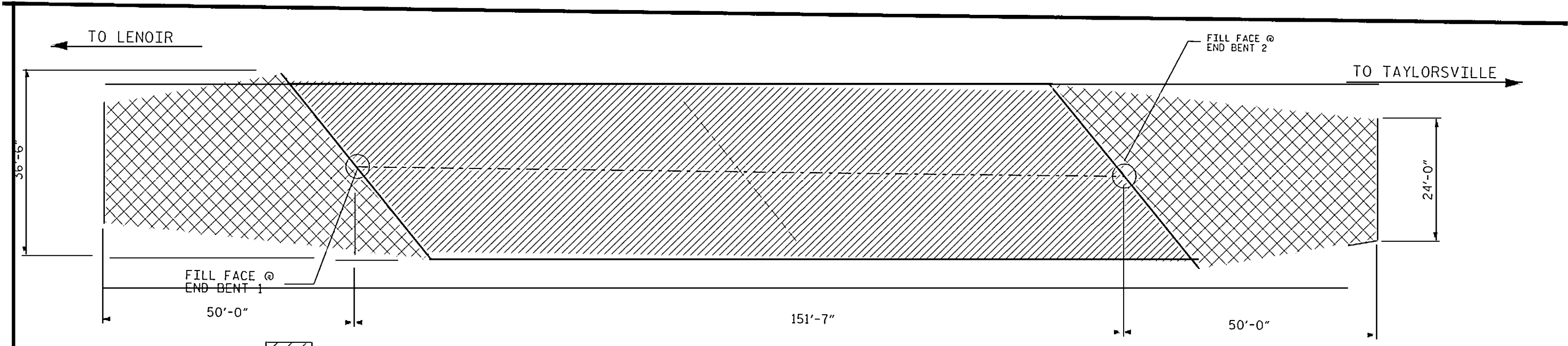
PROJECT NO. BK-5101B
 COUNTY: ALEXANDER
 STATION: 606+95.00-L-
 DECK REHAB BRIDGE NO. 2



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**TYPICAL SECTION
 AND JOINT DETAILS**

REVISIONS						SHEET NO. 3
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 7
2			4			

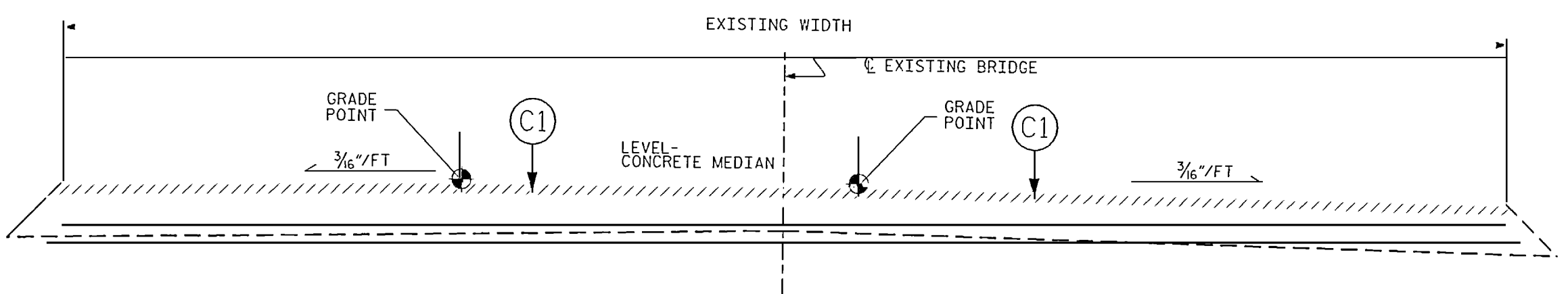
DRAWN BY: STS/CLB DATE: 07/09
 CHECKED BY: EBN DATE: 07/09



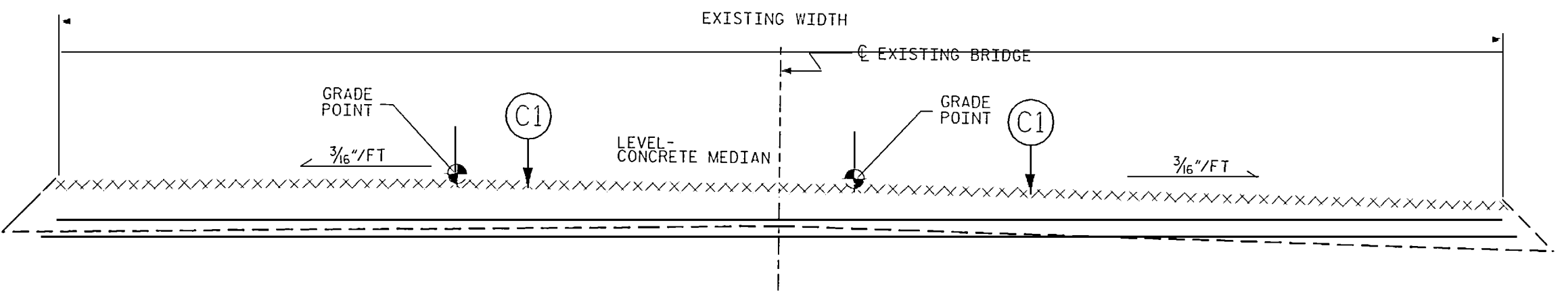
 DECK SCARIFICATION AND HYDRODEMOLITION
 ASPHALT MILLING

PLAN

C1 PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF 9.5A AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1 1/2" IN DEPTH.



TYPICAL ROADWAY SECTION



TYPICAL ROADWAY MILLING SECTION
(MILL TO 2" DEPTH)

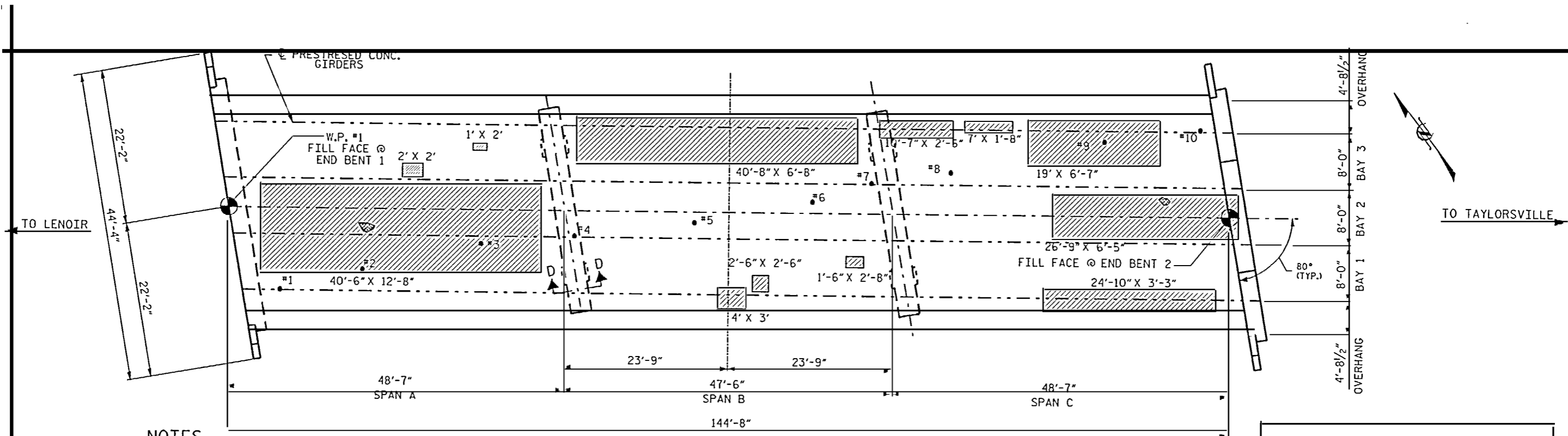
PROJECT NO. BK-5101B
 COUNTY: ALEXANDER
 STATION: 606+95.00-L-
 DECK REHAB BRIDGE NO. 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 ROADWAY TYPICAL
 SECTIONS AND MILLING
 DETAILS

REVISIONS						SHEET NO. 4
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 7
2			6			

DRAWN BY : STS/CLB
 CHECKED BY : EBN
 DATE : 06/09
 DATE : 07/09

31-AUG-2009 15:10 cbright AT BGMU240325



NOTES

SEE SPECIAL PROVISIONS FOR LATEX MODIFIED CONCRETE- VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING DECK SCARIFICATION, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR HYDRO-DEMOLITION.

SEE SPECIAL PROVISIONS FOR UNDER DECK CONTAINMENT.

THE CONTRACTOR MUST COLLECT AND TREAT RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.

THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF THE DECK.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR CLASS AA CONCRETE, SEE SPECIAL PROVISIONS.

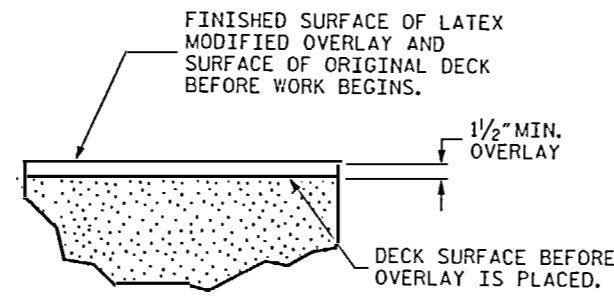
THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.

NOMINAL UNCOMPRESSED SEAL WIDTH OF EVAZOTE JOINT SEAL SHALL BE 4" AT BENTS #3 & #6

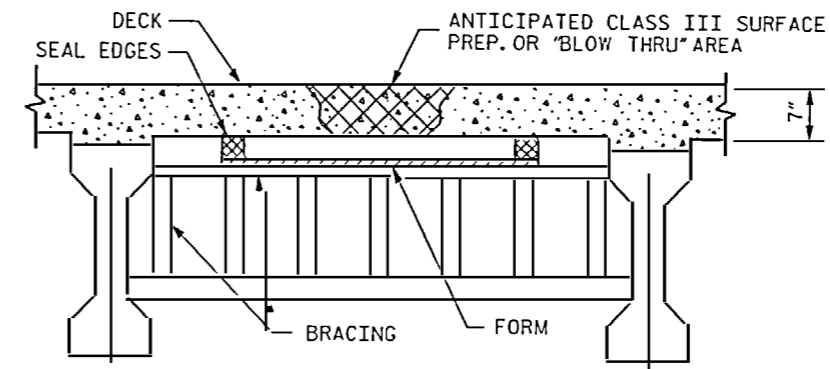
THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.

PLAN VIEW

	APPROX. AREA: CLASS II REPAIR
	APPROX. AREA: CLASS III REPAIR
	APPROX. TEST BORING LOCATION



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY



TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COST FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.

TOTAL BILL OF MATERIAL

**DECK SCARIFICATION	*CLASS I SURFACE PREPARATION	*CLASS II SURFACE PREPARATION	*CLASS III SURFACE PREPARATION	UNDERDECK CONTAINMENT	HYDRO-DEMOLITION	LATEX MODIFIED CONCRETE VERY EARLY STRENGTH	CLASS AA CONCRETE	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOOR	PAVEMENT MARKING	SNOWPLOWABLE RAISED PAVEMENT MARKERS	ASPHALT CONCRETE SURFACE COURSE SF9.5A
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO.FT.	SO.YDS.	C.Y.	C.Y.	LUMP SUM	SO. FT.	LF	EA	TONS
587	312	137	1	28.0	450	40	0.3	LUMP SUM	3866	520	20	20

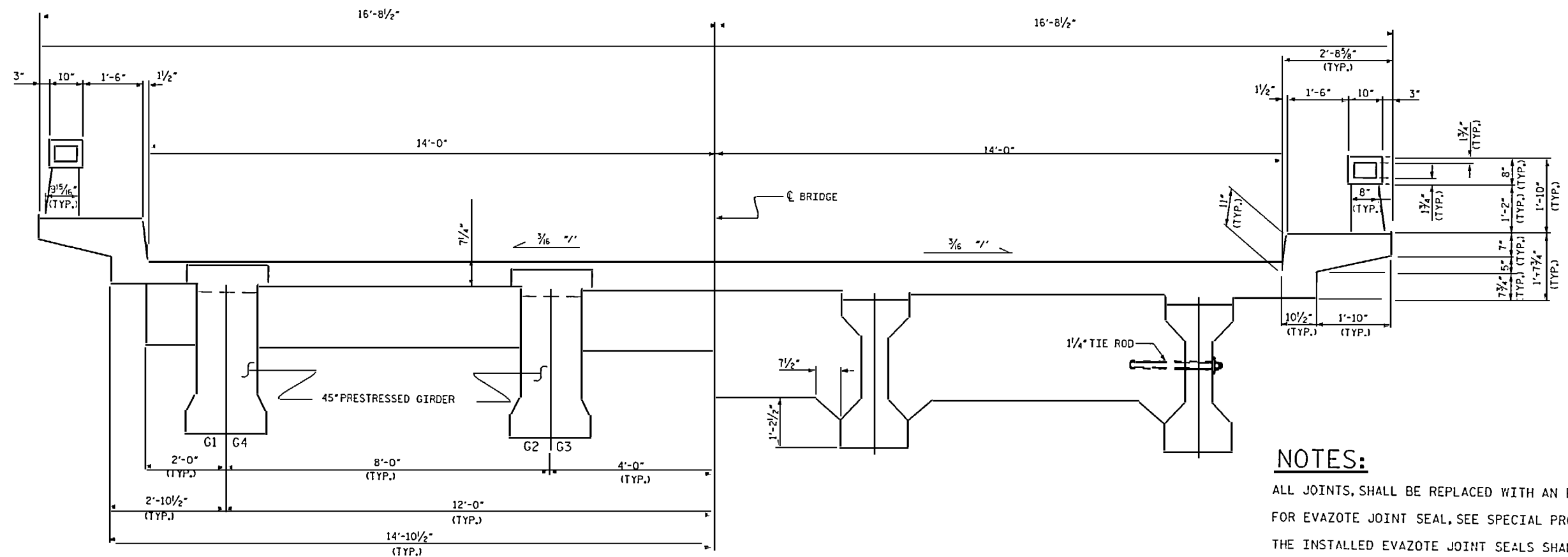
* QUANTITY SHOWN IS FOR INFORMATION ONLY. ** INCLUDES APPROACH MILLING.

PROJECT NO. BK-5101B
 COUNTY: CALDWELL
 STATION: 478+33.00-L-
 DECK REHAB BRIDGE NO. 47

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 DECK REPAIR FOR
 BRIDGE #47 ON US 64
 OVER LITTLE RIVER
 28'-0" CLEAR ROADWAY- (80°-00' SKEW)-

REVISIONS					5
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

DRAWN BY : STS/ CLB DATE : 07/09
 CHECKED BY : EBN DATE : 07/09

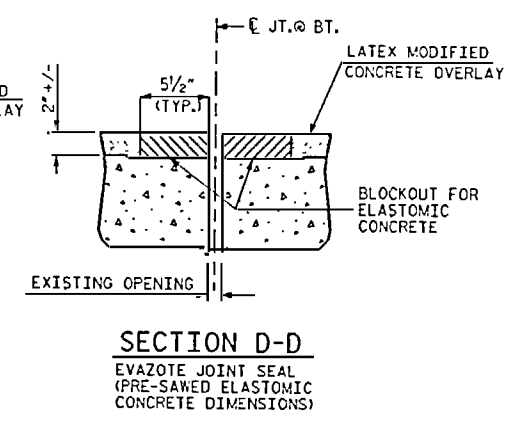
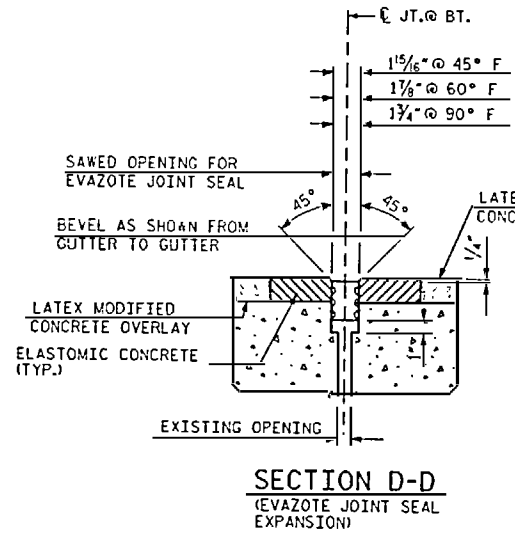
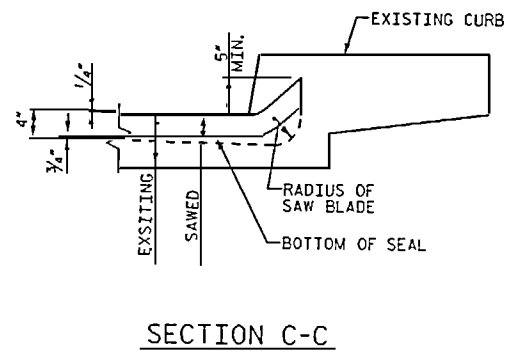
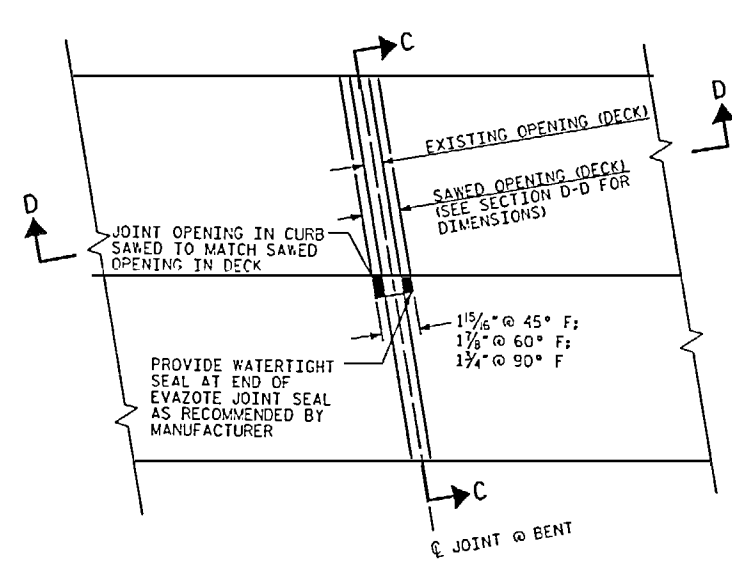


TYPICAL SECTION

NOTES:
 ALL JOINTS, SHALL BE REPLACED WITH AN EVAZOTE SEAL.
 FOR EVAZOTE JOINT SEAL, SEE SPECIAL PROVISIONS.
 THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.
 OPENINGS ARE BASED ON A NOMINAL UNCOMPRESSED SEAL WIDTH OF 2 1/2".
 THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.

ELASTOMERIC CONCRETE	
BENT #1	4.4 (CU. FT.)
BENT #2	4.4 (CU. FT.)
* TOTAL	8.8 (CU. FT.)

* BASED ON THE MINIMUM BLOCKOUT SHOWN.



EVAZOTE JOINT SEAL DETAILS

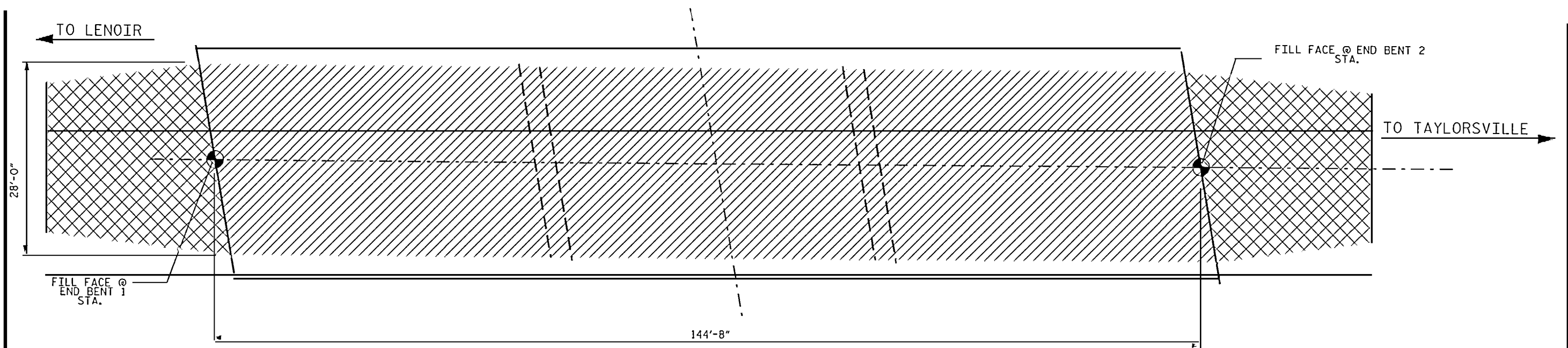
PROJECT NO. BK-5101B
 COUNTY: CALDWELL
 STATION: 478+33.00-L-
 DECK REHAB BRIDGE NO. 47

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

TYPICAL SECTION AND JOINT DETAILS

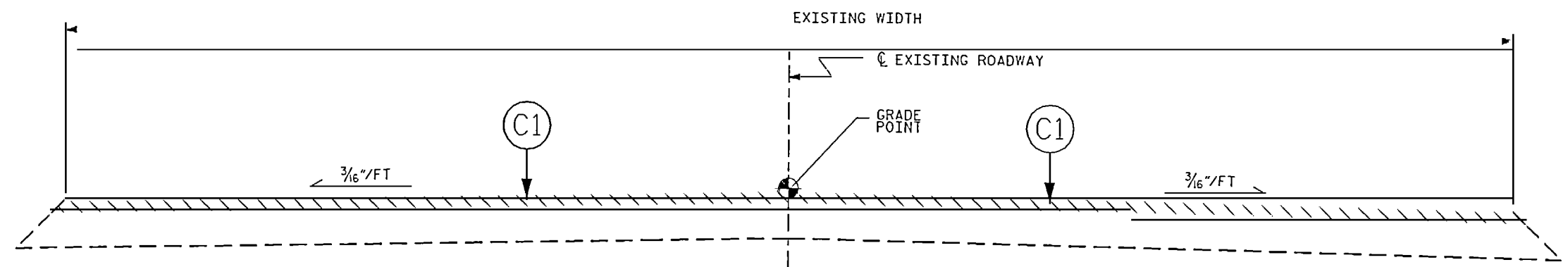
DRAWN BY: STS DATE: 07/09
 CHECKED BY: EBN DATE: 07/09

REVISIONS						SHEET NO. 6
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 7
2			4			



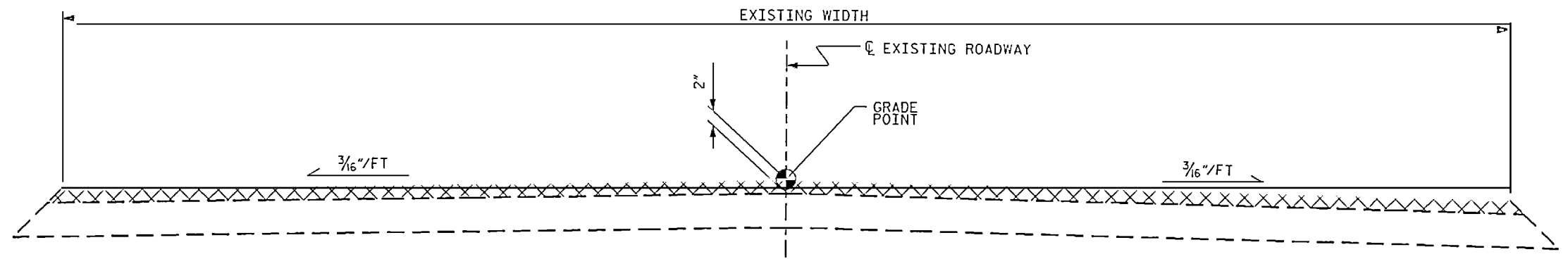
PLAN

- DECK SCARICATION AND HYDRODEMOLITION
- ASPHALT MILLING (CLASS IA SURFACE PREP.)



TYPICAL ROADWAY SECTION

C1 PROP. APPROX. 2" MIN. ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS



TYPICAL ROADWAY MILLING SECTION
(MILL TO 2" DEPTH)

PROJECT NO. BK-5101B
 COUNTY: CALDWELL
 STATION: 478+33.00-L-
 DECK REHAB BRIDGE NO. 47

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 ROADWAY TYPICAL
 SECTION

DRAWN BY : STS/ CLB DATE : 07/09
 CHECKED BY : EBN DATE : 07/09

REVISIONS					SHEET NO.
NO.	BY	DATE	RD.	BY	DATE
1			3		
2			4		

TOTAL SHEETS
7

PROJECT: BK-5105B WBS 42579.3.2 CONTRACT NO. 7000009654

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
BK-5105B	TCP-1

**PLAN FOR PROPOSED
 TRAFFIC CONTROL AND PAVEMENT MARKING
 ALEXANDER & CALDWELL COUNTIES**

**LOCATION: BRIDGE #47 CALDWELL COUNTY & BRIDGE #2 ALEXANDER COUNTY
 ALONG US 64/NC 90**

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE DECK PRESERVATION

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

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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS

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	PROJECT PHASING
TCP-4	OFFSITE DETOUR PLAN

APPROVED: _____ DATE: _____ 8/14/09	PLAN PREPARED BY: <div style="float: right; font-size: x-small;"> Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919 851 6306 Fax. 919 851 7024 www.stantec.com </div>
_____ Betsy L. Watson, PE	_____ TRAFFIC CONTROL ENGINEER
_____ George Karageorge	_____ TRAFFIC CONTROL DESIGNER

8/11/2009
 J:\TrafficControl\TCP\PLANSHEETS\BK-5105B_tcp-ps1.dwg
 1:00pm

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 AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.
- D) 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.
- E) 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.
- F) 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- H) 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.

- I) 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.

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

TRAFFIC CONTROL DEVICES

- K) 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.
- L) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- M) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.


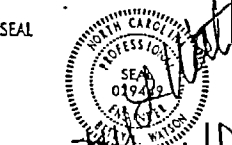

PAVEMENT MARKINGS AND MARKERS

- N) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE ACCORDING TO THE ROADWAY STANDARD DRAWINGS.
 - O) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON FINAL LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------------|--------------|
| ALL ROADS | THERMOPLASTIC | SNOWPLOWABLE |
- P) REPLACE ALL PAVEMENT MARKINGS AND MARKERS BEFORE RE-OPENING LANES TO TRAFFIC.

MISCELLANEOUS

- Q) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- R) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE OFFSITE DETOUR THROUGH THE NCDOT DIVISION OFFICE.
- S) COORDINATE WITH THE ENGINEER TO ENSURE THAT ALL APPROPRIATE PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED BY NCDOT PERSONNEL PRIOR TO IMPLEMENTING ANY DETOURS OR OTHERWISE ALTERING ANY TRAFFIC PATTERN.

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 Stantec <small>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919 851 6568 Fax. 919 851 7024 www.stantec.com</small>	SEAL  <i>Peter J. Stantec</i> 8/14/09 SIGNATURE	GENERAL NOTES								
SCALE: NONE DATE: AUG. 2009 DRAWN BY: GK DESIGN BY: BLW REVIEWED BY: BLW		 REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								

PROJECT REFERENCE NO.	SHEET NO.
BK-5105B	TCP-3

PROJECT PHASING

STEP 1:

INSTALL AND COVER ALL DETOUR ROUTING PANELS AND ROAD CLOSURE SIGNING AND MAINTAIN COVERED.

STEP 2:

IN A CONTINUOUS OPERATION, DO THE FOLLOWING:

- UNCOVER DETOUR ROUTING PANELS AND ROAD CLOSURE SIGNING, AND INSTALL TYPE III BARRICADES AND ANY REMAINING TRAFFIC CONTROL DEVICES DIRECTING US 64/ NC 90 TRAFFIC ONTO DETOUR ROUTE AS SHOWN ON SHEET TCP-4 (MORRIS CREEK ROAD TO DUDLEY SHOALS ROAD TO ANTIOCH CHURCH ROAD TO NC 127).
- INSTALL WING BARRICADES ALONG US 64/ NC 90 IN THE VICINITY OF CALDWELL POND ROAD AND OLD NC 90 AS SHOWN ON SHEET TCP-4.
- COMPLETELY CLOSE US 64/ NC 90 ON EITHER SIDE OF BRIDGE 47 IN CALDWELL COUNTY, AND ON EITHER SIDE OF BRIDGE 2 IN ALEXANDER COUNTY.


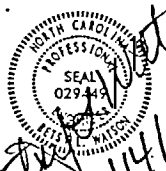

STEP 3:

- COMPLETE BRIDGE DECK PRESERVATION OF BOTH BRIDGES PER STRUCTURE PLANS.
- REPLACE PAVEMENT MARKINGS AND MARKERS ON BOTH BRIDGES ACCORDING TO RSD 1205.12.

STEP 4:

- IN A CONTINUOUS OPERATION, REMOVE BARRICADES AND DETOUR/ ROAD CLOSURE SIGNS, AND RE-OPEN US 64/ NC 90 TO NORMAL TRAFFIC PATTERN.

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 Stantec <small>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919 851 6566 Fax. 919 851 7024 www.stantec.com</small>	SEAL  <i>Betty Watson</i> 8/14/09	<h3>PROJECT PHASING</h3>																						
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