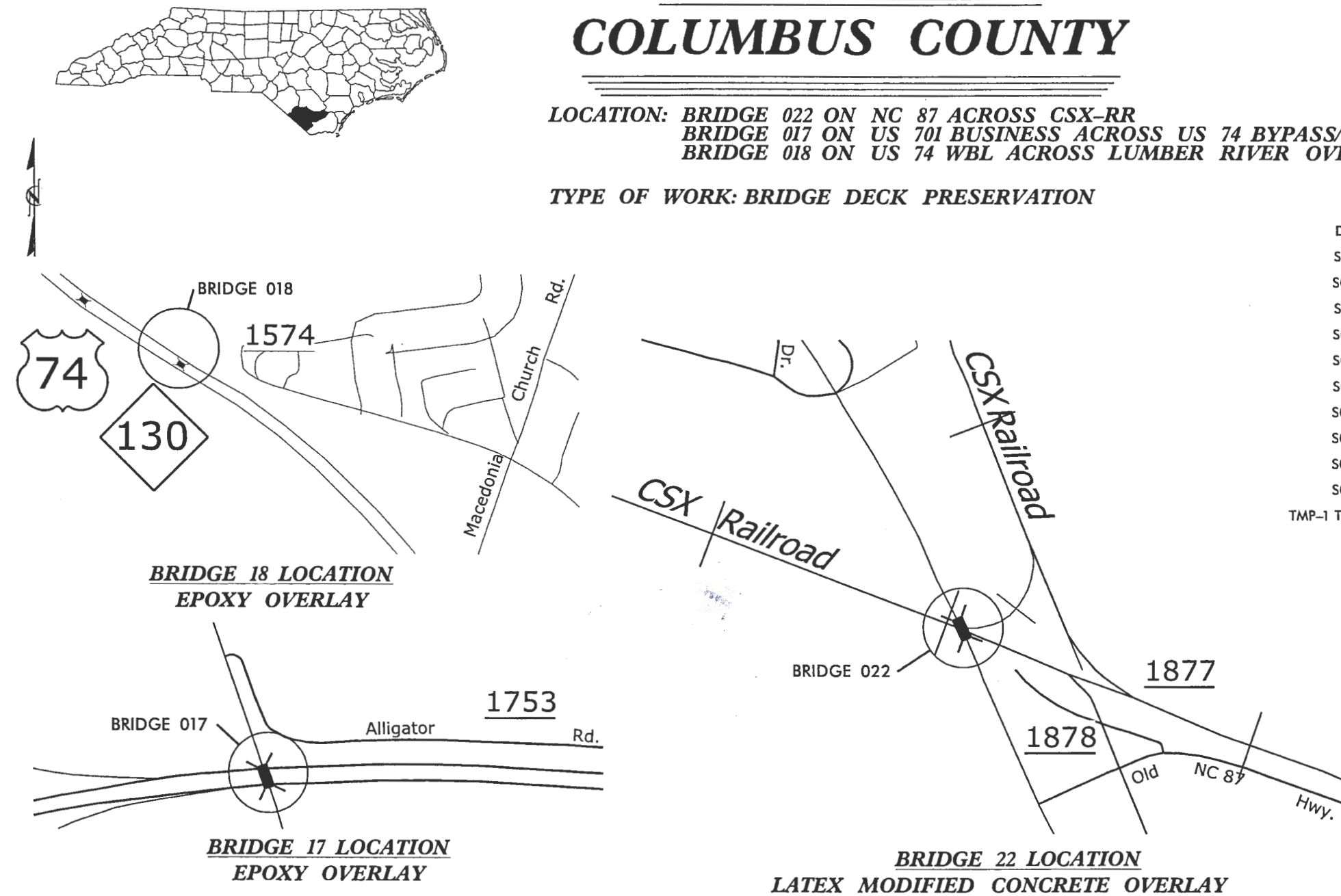


08/08/99
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

TIP PROJECT:17BP.6.P.1

CONTRACT: DO00140



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
COLUMBUS COUNTY

LOCATION: BRIDGE 022 ON NC 87 ACROSS CSX-RR
BRIDGE 017 ON US 701 BUSINESS ACROSS US 74 BYPASS/US 76 BYPASS
BRIDGE 018 ON US 74 WBL ACROSS LUMBER RIVER OVERFLOW


TYPE OF WORK: BRIDGE DECK PRESERVATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	
WM NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.6.P.1		PE	
17BP.6.P.1		CONST.	

INDEX OF SHEETS

DWG.	DESCRIPTION
S017-1	BR. 17 EPOXY OVERLAY
S017-2	BR. 17 JT. SEAL DETAILS
S018-1	BR. 18 EPOXY OVERLAY
S018-2	BR. 18 BENT JT. SEAL DETAILS
S018-3	BR. 18 END BENT JT. SEAL DETAILS
S022-1	BR. 22 LMC OVERLAY
S022-2	BR. 22 BRIDGE PLAN
S022-3	BR. 22 TYPICAL SECTION
S022-4	BR. 22 DECK REPAIR
S022-5	BR. 22 JT. SEAL DETAILS
TMP-1 THRU TMP-2	TRANSPORTATION MANAGEMENT PLAN

PROJECT LENGTH



PREPARED IN THE OFFICE OF:
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27608
Tel. (919) 851-0900
Fax. (919) 851-7024
www.stantec.com
License No. F-0872

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS


RIGHT OF WAY DATE: N.A.

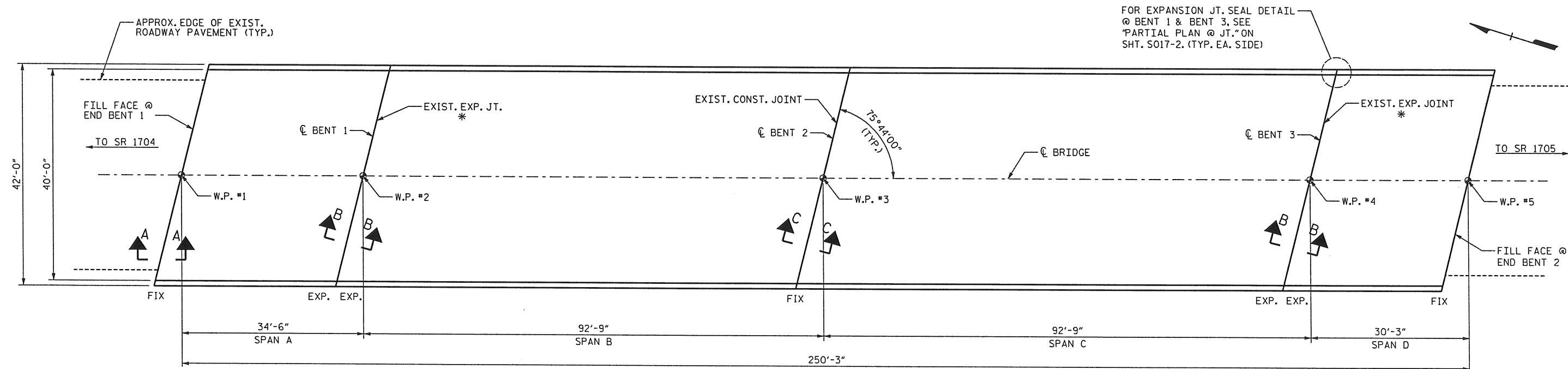
LETTING DATE: NOVEMBER 30, 2011

NC DOT CONTACT: ZAKI WAFI, PE
BRIDGE MANAGEMENT PROJECT MANAGER

NORTH CAROLINA PROFESSIONAL SEAL
20208
10/25/11
ERIC B. NELSON JR.
ENGINEER
RICK NELSON, PE
DESIGN ENGINEER

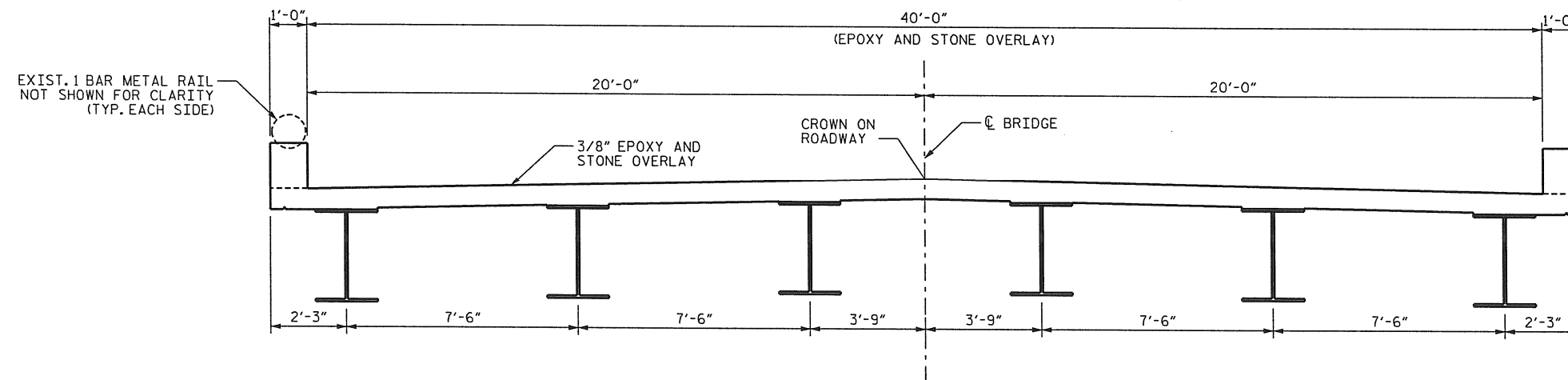
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA





* ALL EXIST. EXPANSION JOINTS ARE TO BE SEALED. SEE SHT. S017-2 FOR DETAILS.

PLAN VIEW



TYPICAL SECTION

NOTES

FOR REPAIR OF BRIDGE WITH EPOXY AND STONE OVERLAY, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR CLASS II DECK REPAIRS.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR SECTIONS A-A, B-B, AND C-C SEE SHT. S017-2.

FOR TRAFFIC CONTROL AND TRAFFIC PHASING DETAILS, SEE TRANSPORTATION MANAGEMENT PLANS.

ALL QUANTITIES SHOWN ARE APPROXIMATE.

TOTAL BILL OF MATERIAL

EPOXY/STONE OVERLAY	CLASS II SURFACE PREPARATION	EVAZOTE JOINT SEALS
SQ. FT.	SQ. FT.	LUMP SUM
10,000	100	LUMP SUM

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
 STATION: _____



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DRAWN BY : B C MACYOWSKY DATE : 9/11
 CHECKED BY : J T KELVINGTON DATE : 9/11

James Kelvington
 9/25/11

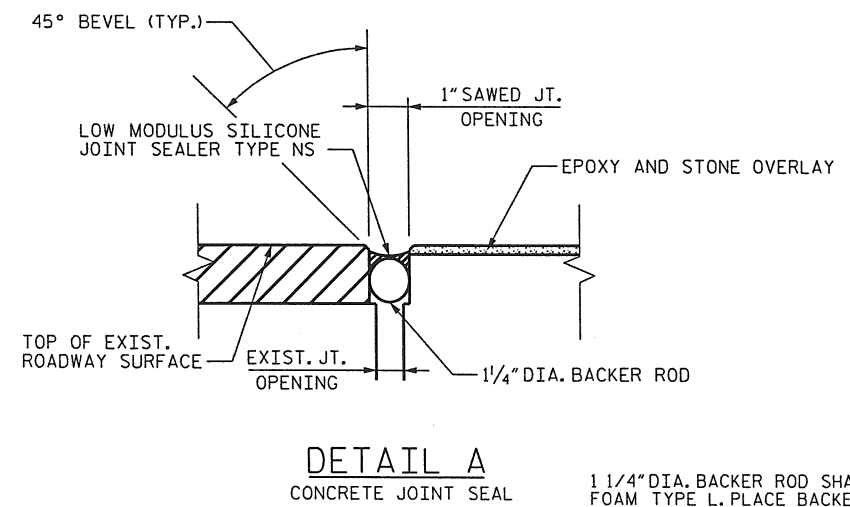
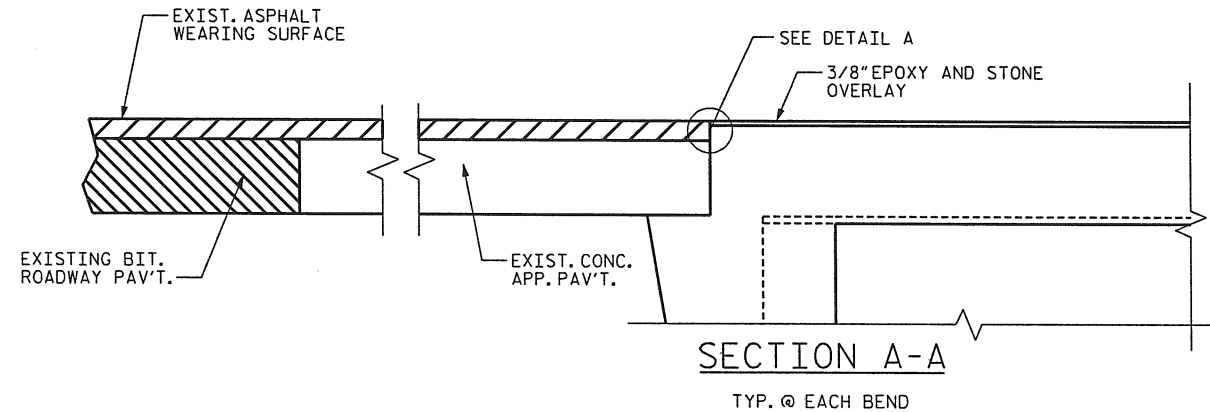


STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

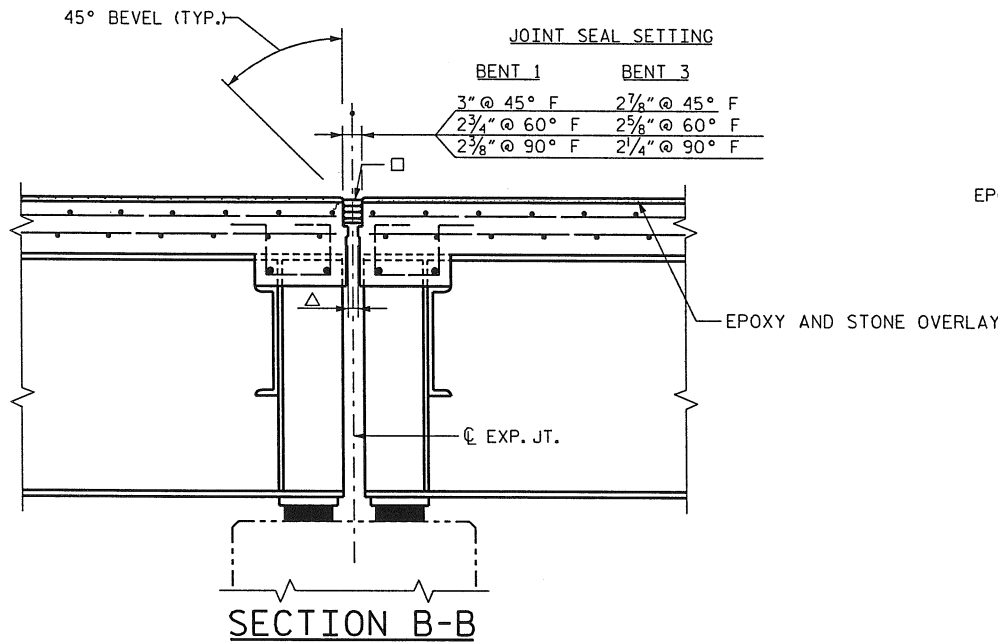
DECK REPAIR DETAILS
 FOR BRIDGE #017

DECK REHAB FOR BRIDGE NO. 17

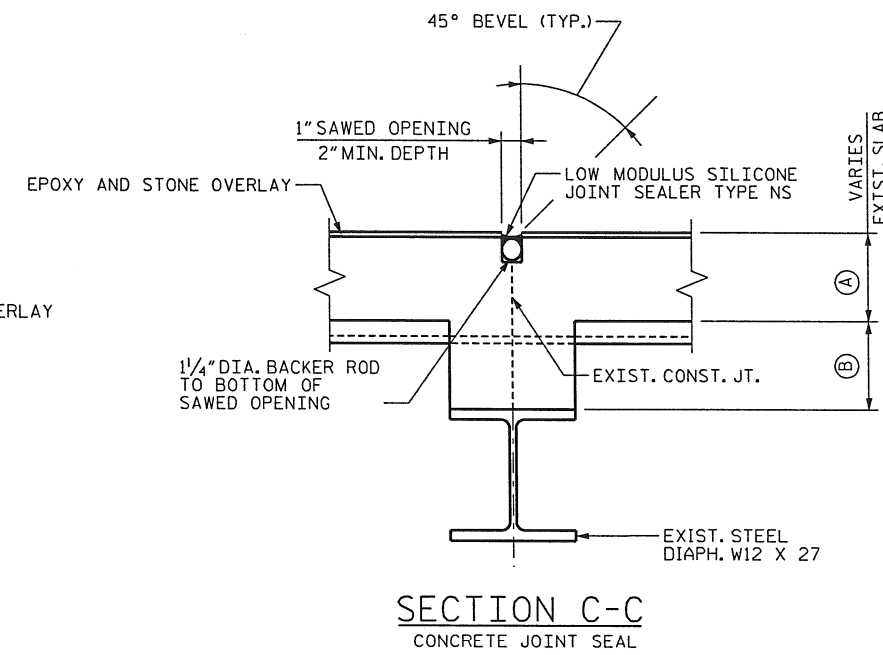
REVISIONS						SHEET NO. S017-1
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			2



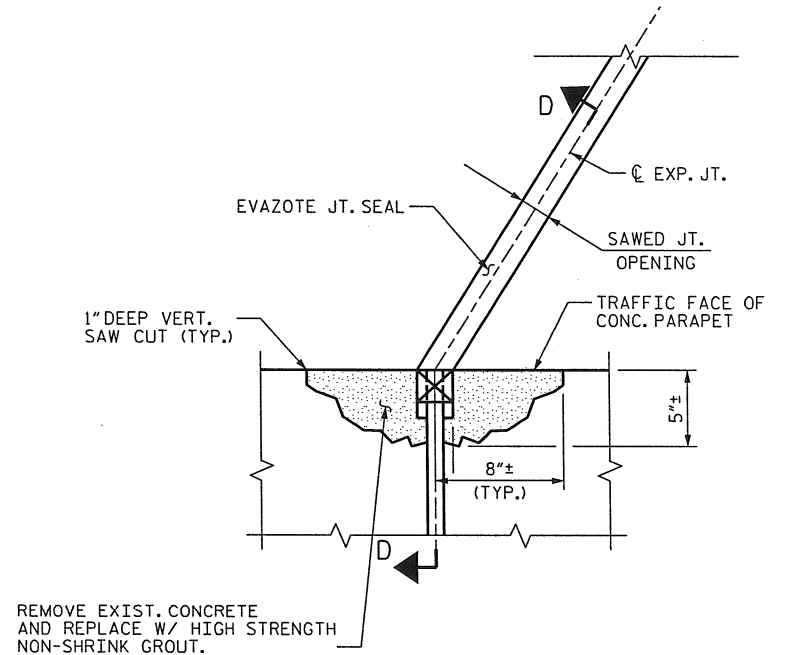
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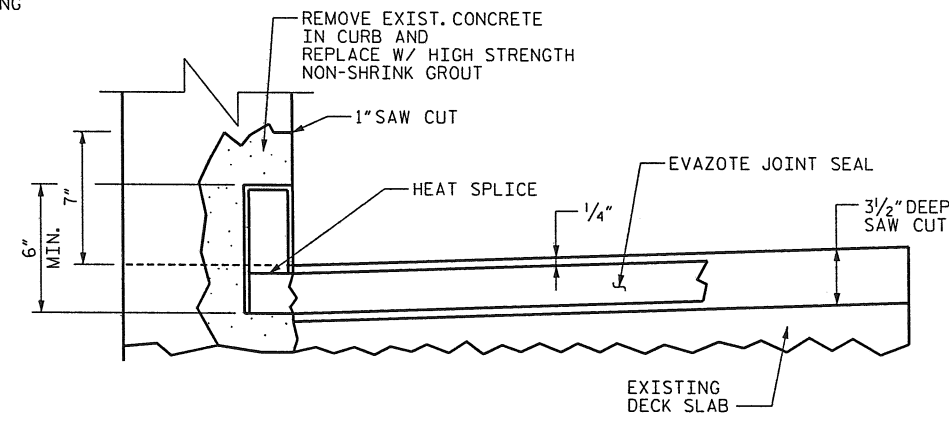
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(A) 9 3/16\"/>

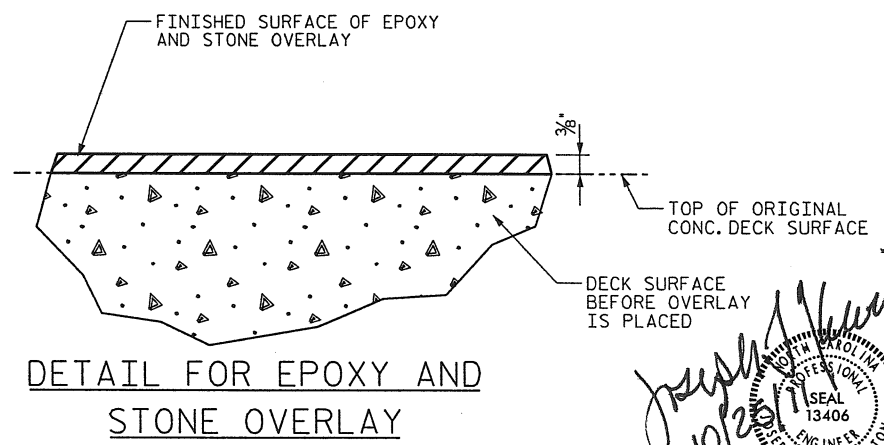


PARTIAL PLAN @ JOINT



SECTION D-D

CONTRACTOR SHALL EXERCISE CARE TO AVOID CUTTING OR DAMAGING EXISTING REINF. STEEL.
FOR HIGH STRENGTH GROUT, SEE SPECIAL PROVISIONS.
HIGH STRENGTH GROUT SHALL BE APPROVED BY THE ENGINEER.



DETAIL FOR EPOXY AND STONE OVERLAY

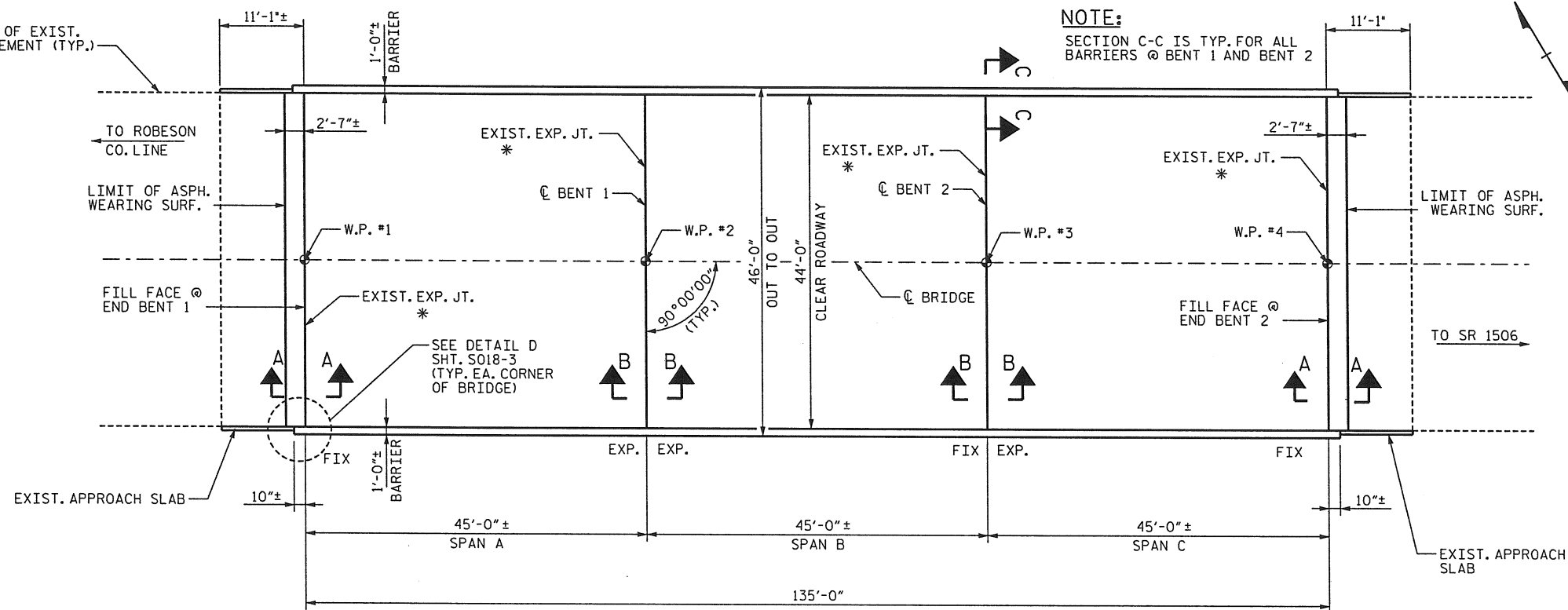
PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS FOR BRIDGE #017					
DECK REHAB FOR BRIDGE NO. 17					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S017-2					TOTAL SHEETS 2



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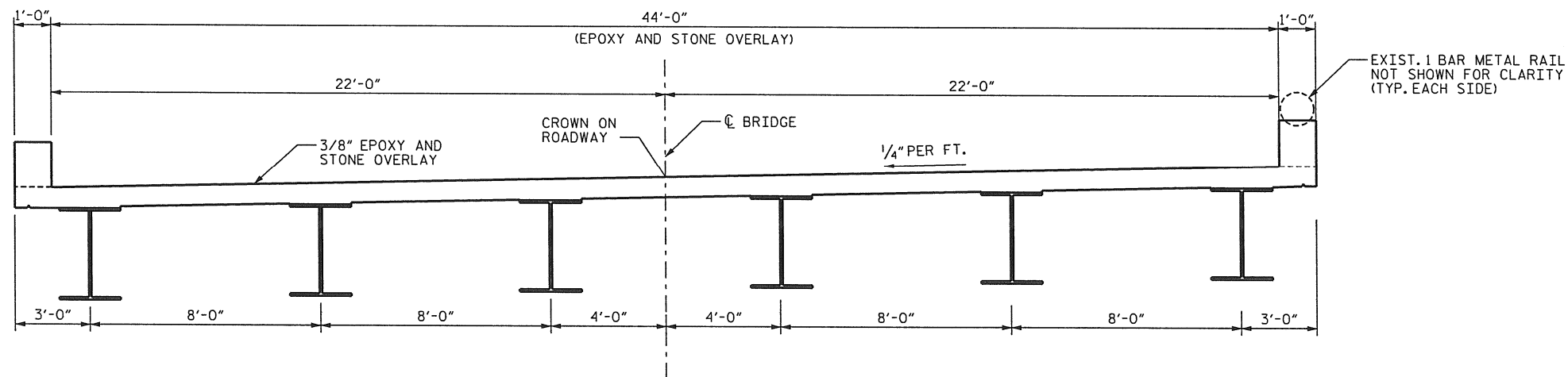
DRAWN BY : B. C. MACYOWSKY DATE : 9/11
CHECKED BY : J. T. KELVINGTON DATE : 9/11



PLAN VIEW

* ALL EXIST. EXPANSION JOINTS ARE TO BE SEALED.

SEE S018-2 FOR DETAILS.



TYPICAL SECTION

NOTES

FOR REPAIR OF BRIDGE WITH EPOXY AND STONE OVERLAY, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR CLASS II DECK REPAIRS.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR SECTIONS A-A, B-B, AND C-C SEE SHT. S018-2.

FOR TRAFFIC CONTROL AND TRAFFIC PHASING DETAILS, SEE TRANSPORTATION MANAGEMENT PLANS.

ALL QUANTITIES SHOWN ARE APPROXIMATE.

TOTAL BILL OF MATERIAL

EPOXY/STONE OVERLAY	CLASS II SURFACE PREPARATION	EVAZOTE JOINT SEALS
SQ. FT.	SQ. FT.	LUMP SUM
6167	100	LUMP SUM

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
 STATION: _____



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DRAWN BY : B. C. MACYOWSKY DATE : 9/11
 CHECKED BY : J. I. KELVINGTON DATE : 9/11

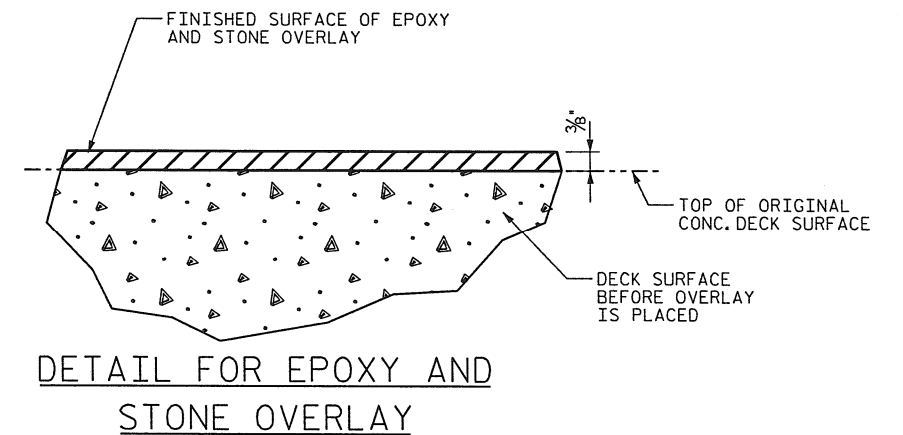
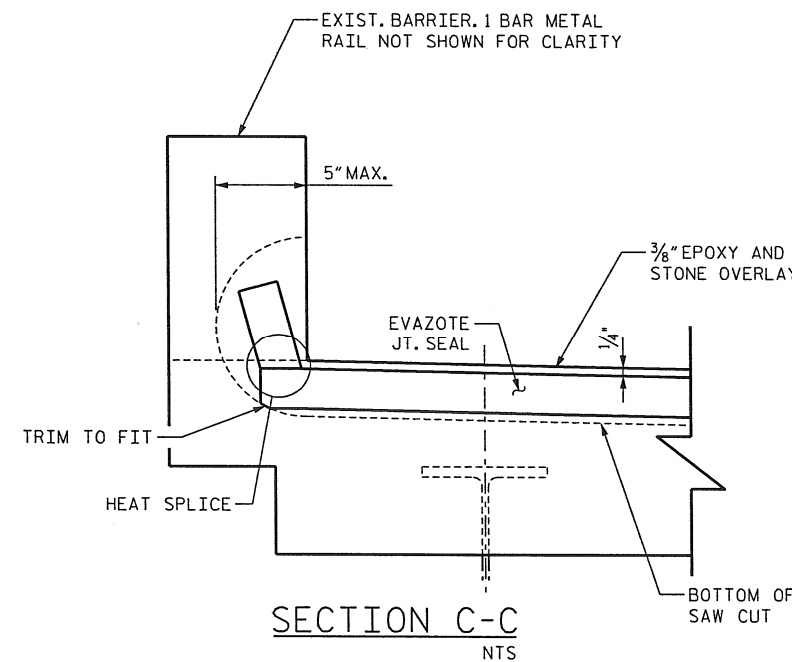
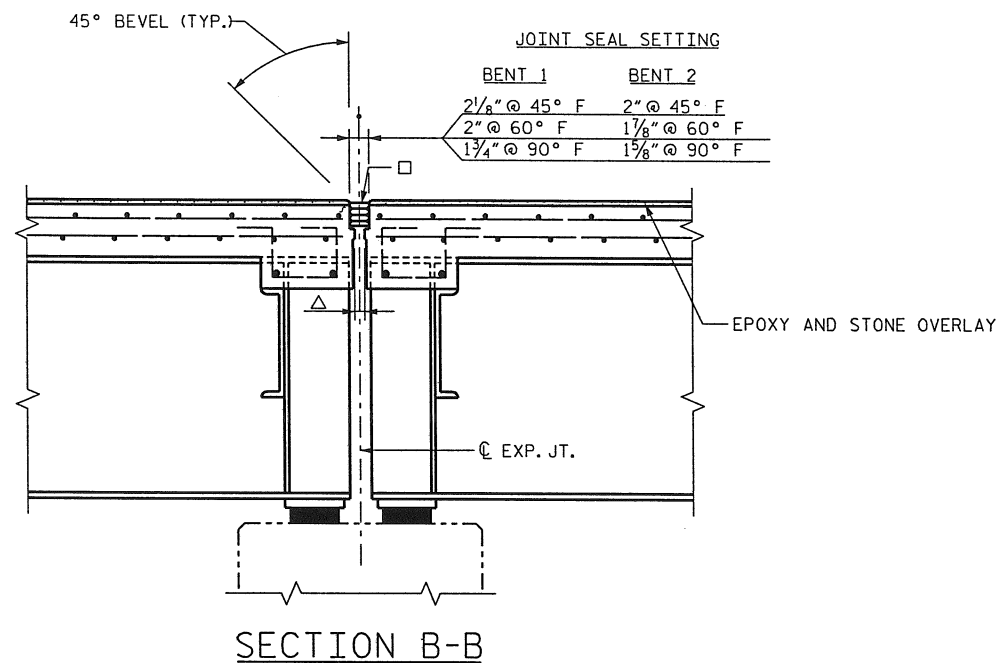
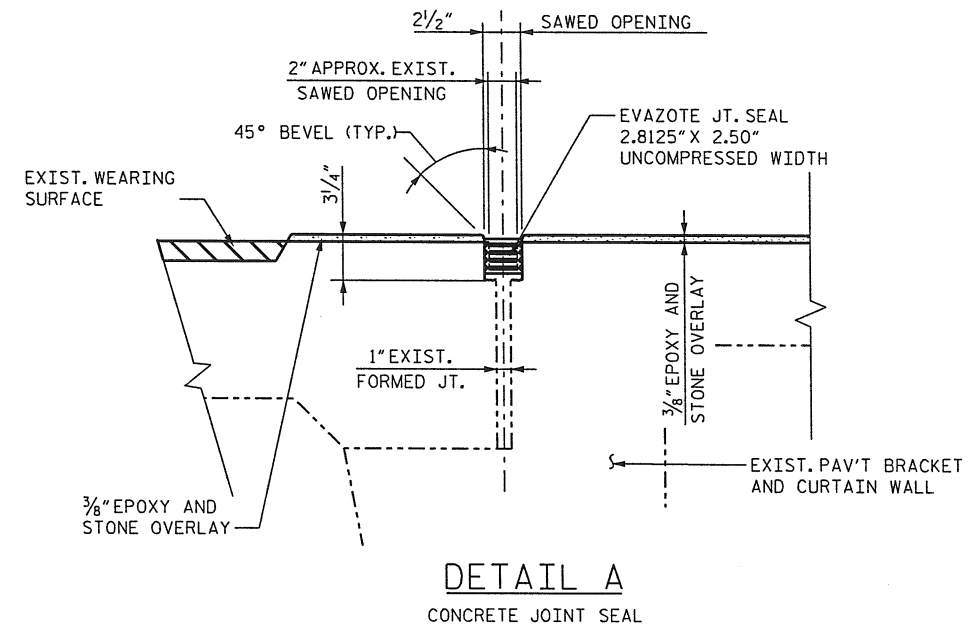
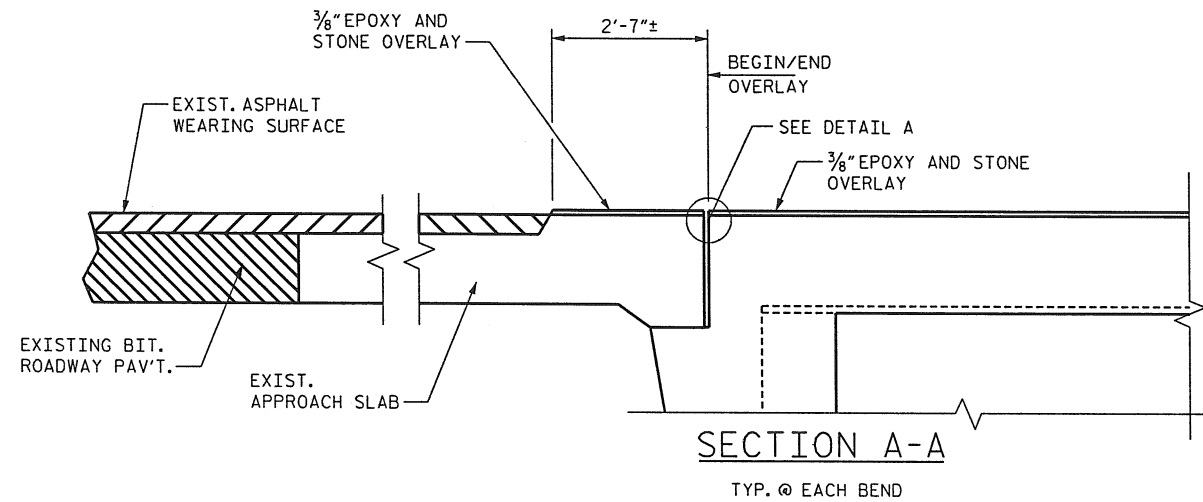
Joseph Kelvington
 10/25/11
 SEAL 13406
 PROFESSIONAL ENGINEER
 NORTH CAROLINA
 JOSEPH T. KELVINGTON

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK REPAIR DETAILS
 FOR BRIDGE #018

DECK REHAB FOR BRIDGE NO. 18

REVISIONS						SHEET NO. S018-1
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 3
2			4			



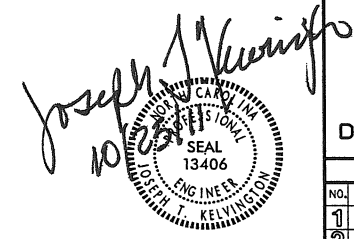
PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____

□ USE 2.8125" X 2.5" UNCOMPRESSED EVAZOTE JT. SEAL MATERIAL.
SET TOP 1/4" TO 3/8" BELOW EPOXY AND STONE OVERLAY
△ 1" EXIST. FORMED JOINT OPENING.

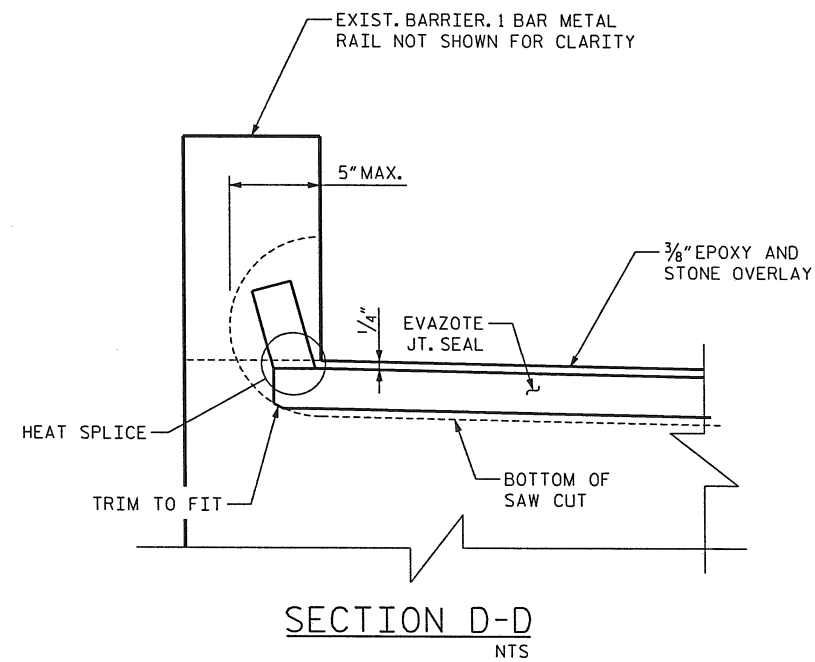
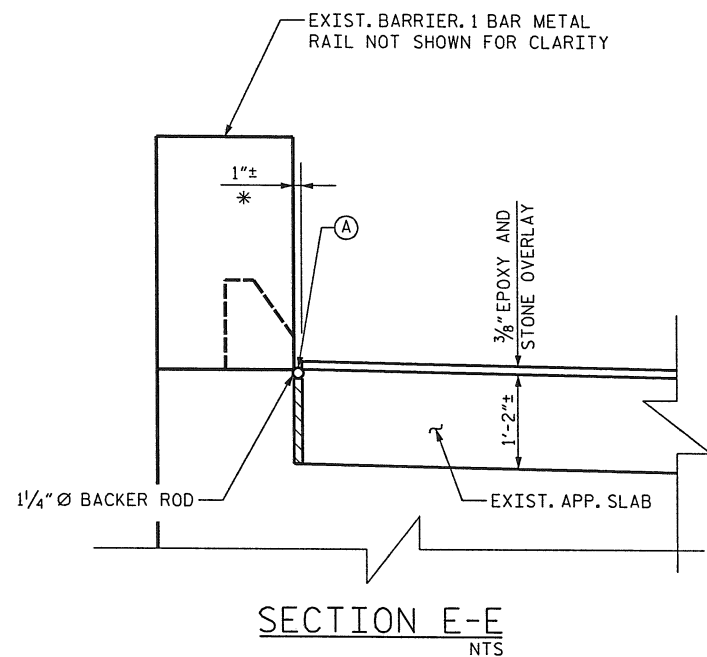
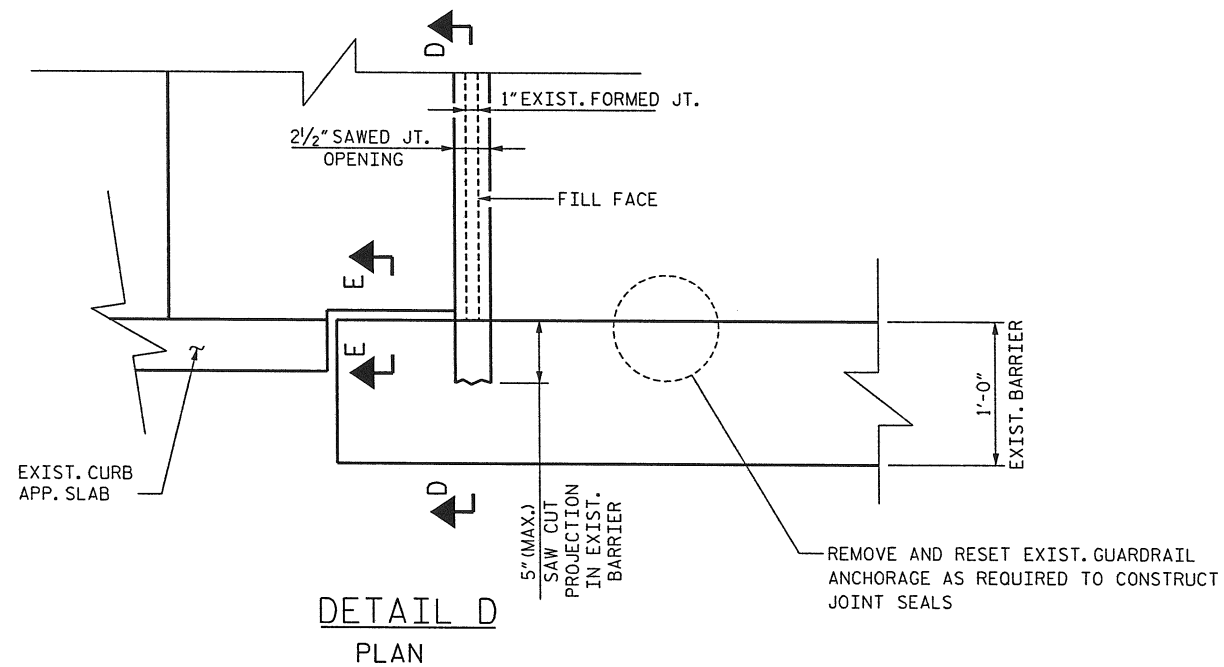


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DRAWN BY : B C MACYOWSKY DATE : 9/11
CHECKED BY : J T KELVINGTON DATE : 9/11



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS FOR BRIDGE #018					
DECK REHAB FOR BRIDGE NO. 18					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					3
SHEET NO.					S018-2



* EXISTING JOINT FILLED WITH BITUMINOUS JT. MATL.
REMOVE EXP. JT. MATL. AS REQUIRED TO INSTALL BACKER ROD.

Ⓐ SEAL JOINTS W/ LOW MODULUS SILICONE JOINT SEALER TYPE NS
W/ BACKER ROD IN ALL EXISTING GAPS BETWEEN SLABS,
CURBS, AND BARRIERS.

1/4" DIA. BACKER ROD SHALL BE CLOSED CELL EXPANDED POLYETHYLENE
FOAM TYPE L. NO SEPERATE PAYMENT FOR LABOR, MATERIALS, AND
EQUIPMENT NEEDED TO CONSTRUCT CONCRETE JOINT SEALS SHALL BE
MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE SEVERAL
PAY ITEMS.



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DRAWN BY : B C MACYOWSKY DATE : 9/11
CHECKED BY : J T KELVINGTON DATE : 9/11

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____

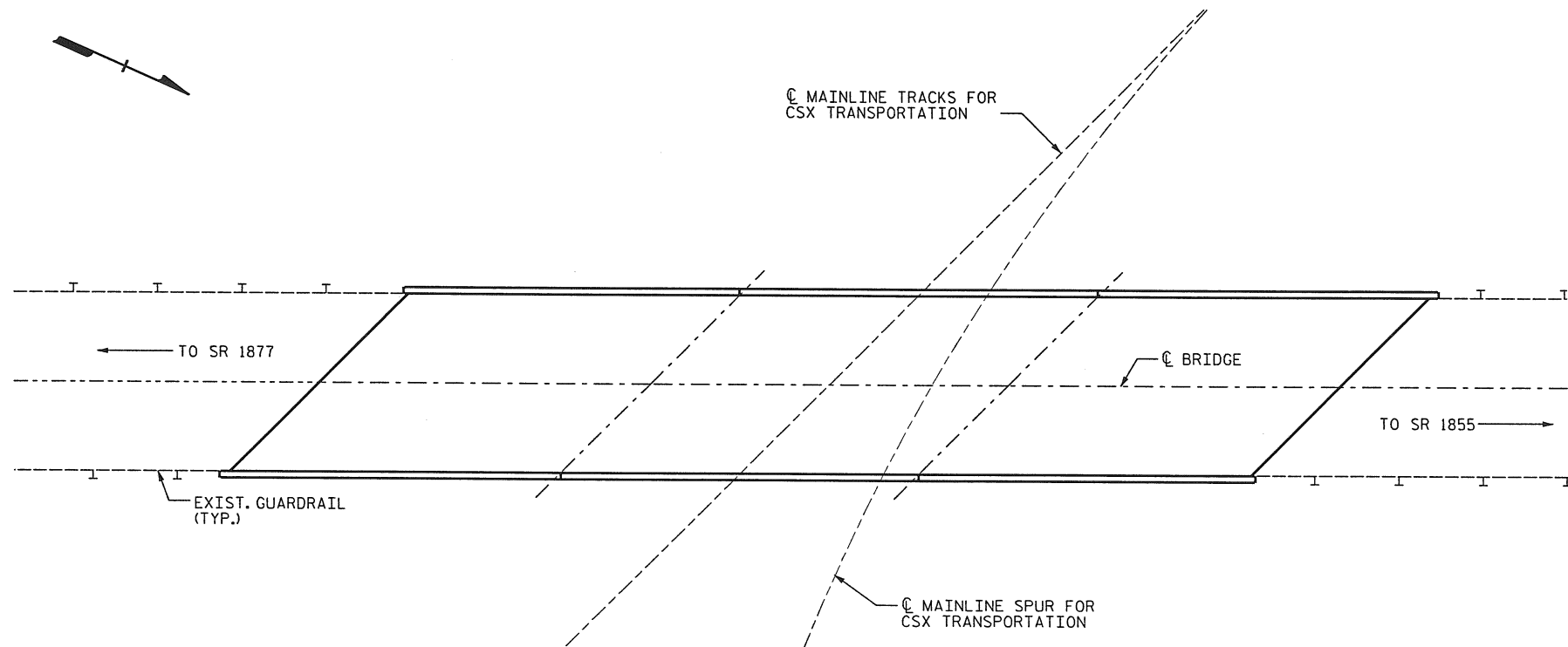
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK REPAIR DETAILS
FOR BRIDGE #018

DECK REHAB FOR BRIDGE NO. 18

REVISIONS						SHEET NO. S018-3
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 3
2			4			

Joseph T. Kelvington
10/11
Professional Engineer
No. 13406
Joseph T. Kelvington



BRIDGE 022 ON NC 87

LOCATION: BRIDGE 230022, NC 87 OVER CSX-RR 0.2 MILES
SOUTH OF JUNCTION OF SR 1855

BRIDGE 022 ON NC 87

TOTAL BILL OF MATERIAL										
SCARIFYING BRIDGE DECK	CLASS I* SURFACE PREPARATION	CLASS II* SURFACE PREPARATION	CLASS III* SURFACE PREPARATION	HYDRO- DEMOLITION	CLASS AA CONCRETE	LATEX MODIFIED CONCRETE- VERY EARLY STRENGTH	PLACING & FINISHING OF LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEAL	GROOVING BRIDGE FLOORS	ASHPHALT CONC. SURF. COURSE TYPE S9.5B
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	CU.YDS.	CU.YDS.	SO.YDS.	LUMP SUM	SO.FT.	TON
1239	0	31	0	733	0	31	733	LUMP SUM	6308	78

* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. NO SEPARATE PAYMENT FOR THESE ITEMS SHALL BE MADE. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR HYDRO-DEMOLITION.

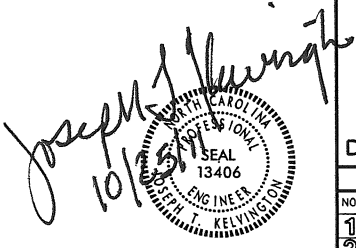
* INCLUDES MILLING OF ROADWAY PAVEMENT.

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____



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DRAWN BY : J. L. HENNEKES DATE : 09-12-11
CHECKED BY : J. T. KELVINGTON DATE : 09-12-11

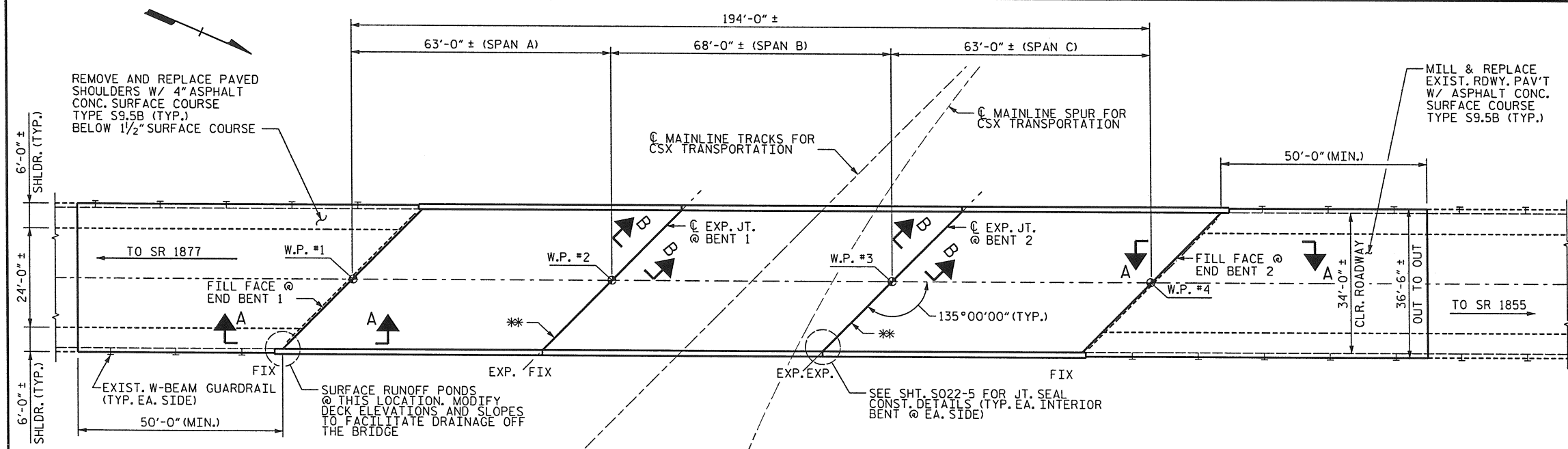


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

LOCATION SKETCH
AND TOTAL
BILL OF MATERIAL

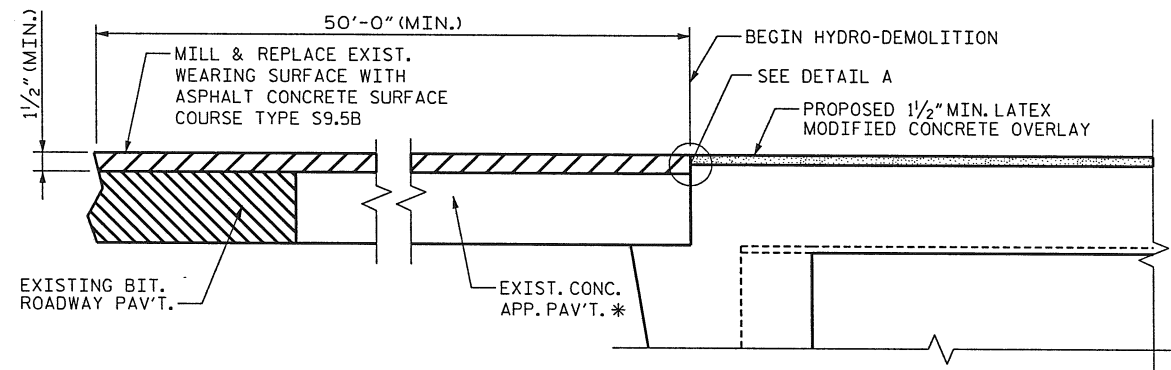
DECK REHAB. FOR BRIDGE NO. 022

REVISIONS						SHEET NO. S022-1
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 5
2			4			



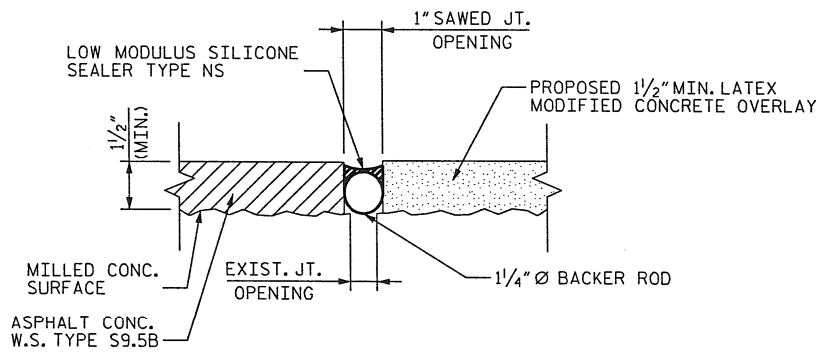
PLAN OF SPANS A-C

** EXISTING OPEN JT. FILLED W/ ASPHALT JT. SEALER. JOINTS ARE TO BE REPAIRED W/ EVAZOTE JOINT SEALS. SEE SHT. S022-5.

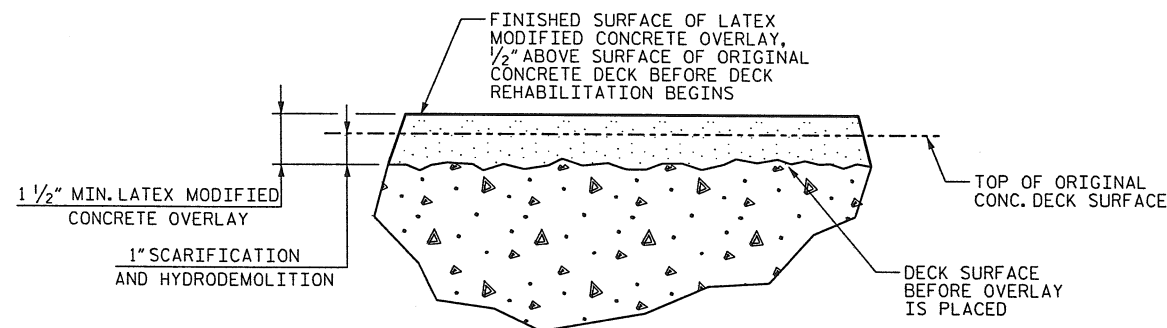


SECTION A-A

* PAV'T IS ASSUMED. MILL EXISTING BRIDGE APPROACH PAV'T SURFACE AND OVERLAY W/ 1 1/2" MIN. ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B.



DETAIL A
CONCRETE JOINT SEAL
HORIZONTAL DIMENSIONS ARE NORMAL TO THE JOINT



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

NOTES:

FOR HYDRO-DEMOLITION, 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 II SURFACE PREPARATION ARE APPROXIMATE.

LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH.

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

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR SECTION B-B, SEE SHT. NO. S022-5.

1/4" BACKER ROD SHALL BE CLOSED CELL EXPANDED POLYETHYLENE FOAM TYPE L. PLACE BACKER ROD TO WITHIN 1'-0" OF EXISTING CURB FACE. NO SEPARATE PAYMENT FOR LABOR, MATERIALS, AND EQUIPMENT NEEDED TO CONSTRUCT CONCRETE JOINT SEALS SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE SEVERAL PAY ITEMS.

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____



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DRAWN BY: J. L. HENNEKES DATE: 09-12-11
CHECKED BY: J. T. KELVINGTON DATE: 09-12-11

Joseph T. Kelvington

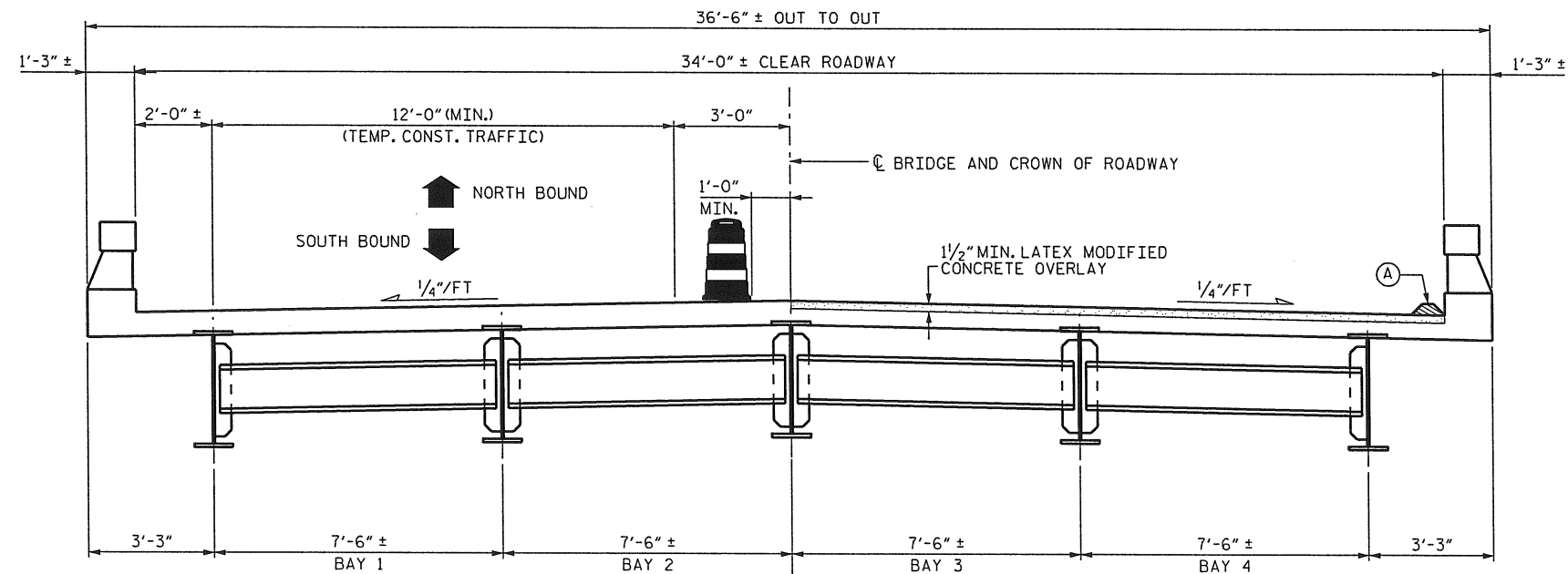


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

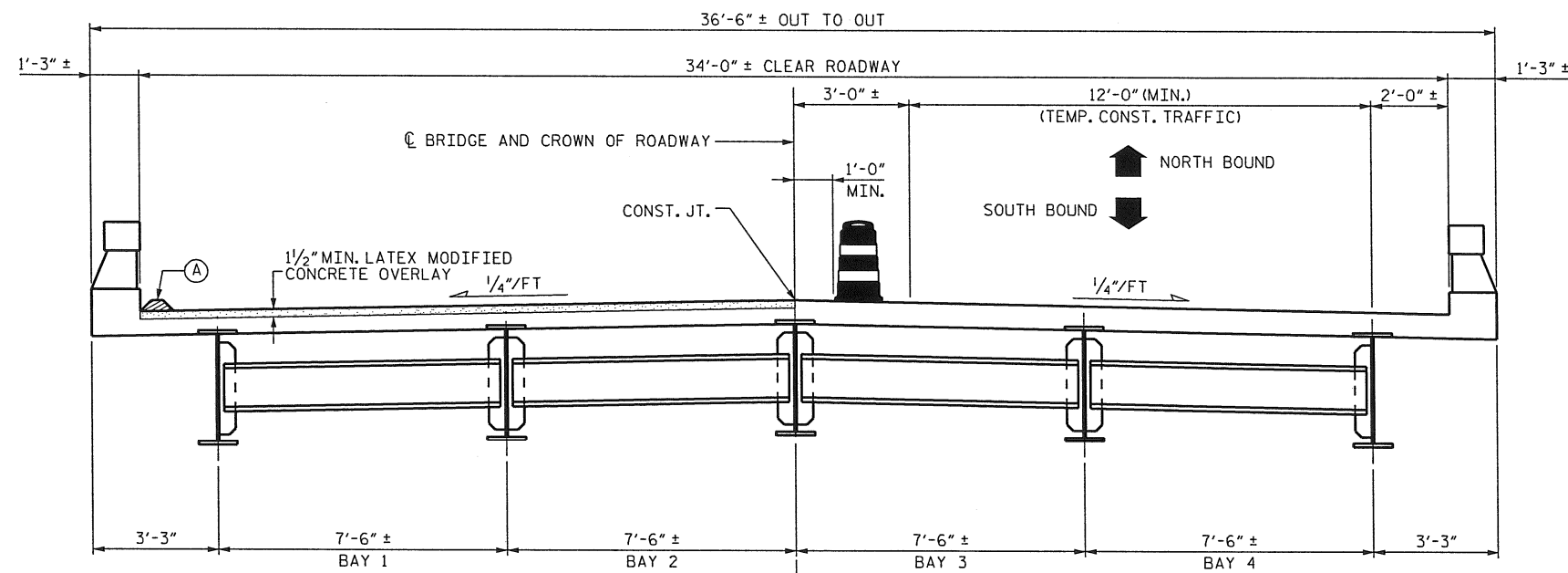
PLAN OF BRIDGE

DECK REHAB. FOR BRIDGE NO. 022

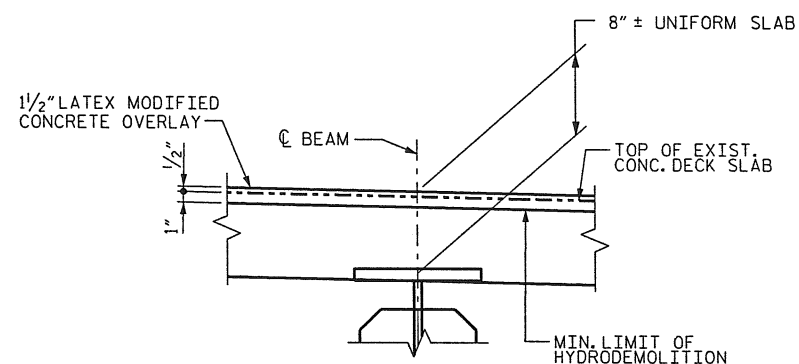
REVISIONS						SHEET NO. S022-2
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 5
2			4			



NBL AND SBL CONSTRUCTION
SPANS A THRU C



NBL AND SBL CONSTRUCTION
SPANS A AND C



EXIST. SLAB BUILDUP

NOTES:

WATER & CONCRETE SLURRY FROM HYDRO-DEMOLITION SHALL NOT BE ALLOWED TO DRAIN ACROSS TRAVEL LANES. CONTRACTOR SHALL PROVIDE A METHOD TO CONTROL THE WATER.

FOR TRAFFIC CONTROL AND CONSTRUCTION PHASING, SEE TRANSPORTATION MANAGEMENT PLANS.

(A) DAM AS REQ'D. NEAR EXISTING EXP. JTS. TO SEAL EXP. JTS.

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE TYPICAL SECTION

DECK REHAB. FOR BRIDGE NO. 022

REVISIONS						SHEET NO. S022-3
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 5
2			4			

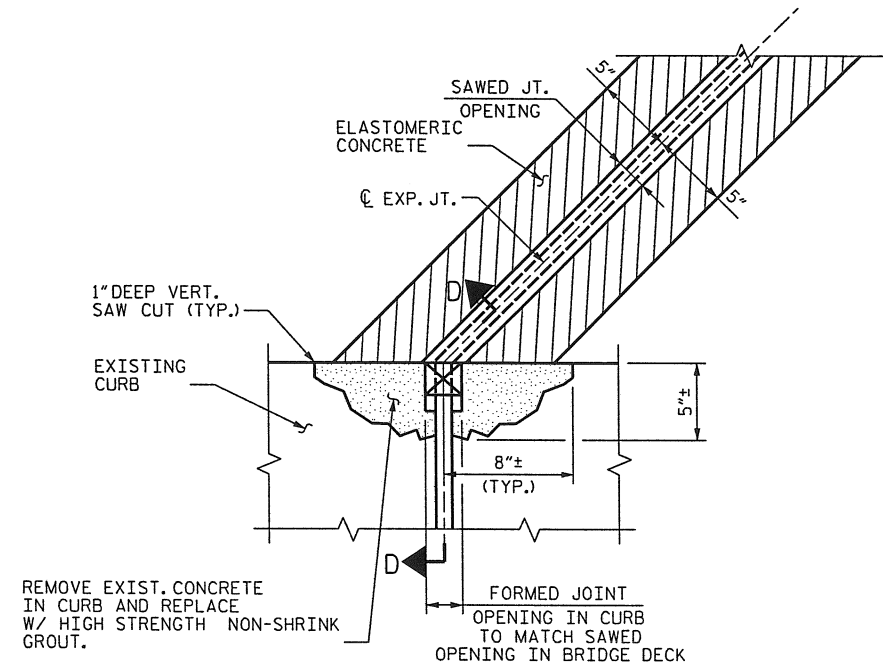


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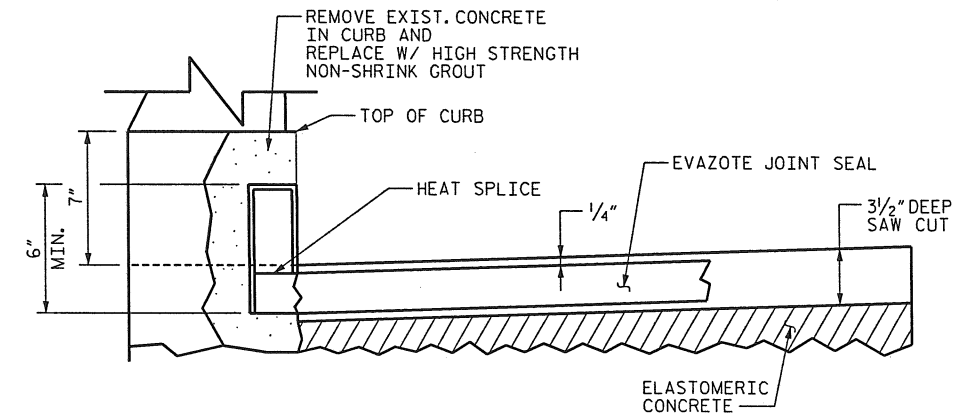
DRAWN BY : J. L. HENNEKES DATE : 09-12-11
CHECKED BY : J. T. KELVINGTON DATE : 09-12-11

Joseph T. Kelvington
10/25/11
SEAL
13406
ENGINEER
JOSEPH T. KELVINGTON

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



PARTIAL PLAN @ JOINT

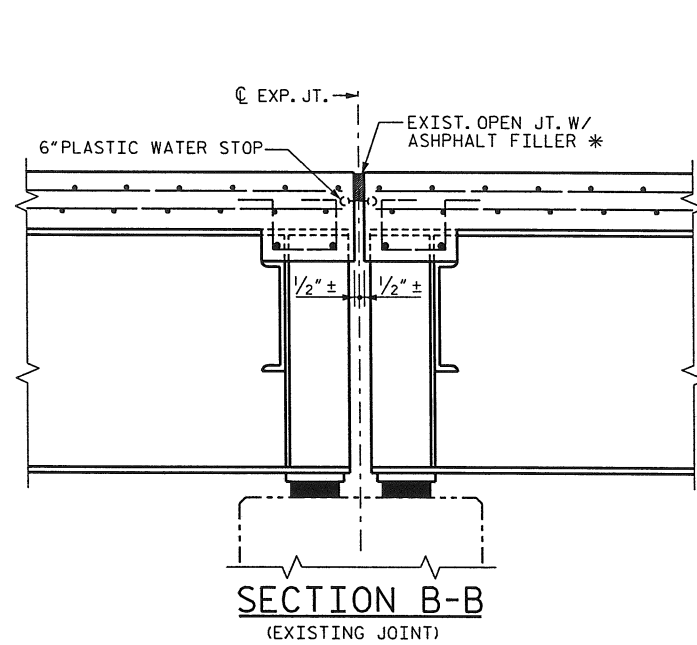


SECTION D-D

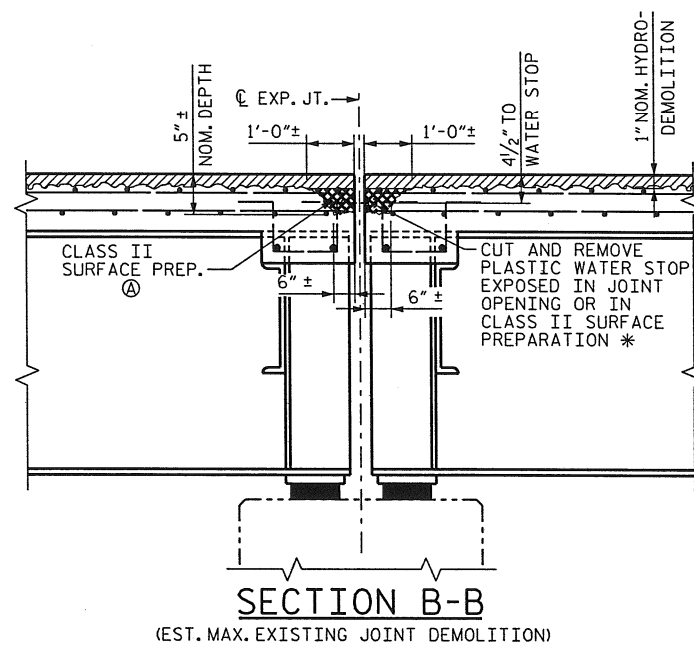
CONTRACTOR SHALL EXERCISE CARE TO AVOID CUTTING OR DAMAGING EXISTING REINF. STEEL.

FOR HIGH STRENGTH GROUT, SEE SPECIAL PROVISION "GROUT FOR STRUCTURES."

HIGH STRENGTH GROUT SHALL BE APPROVED BY THE ENGINEER.



SECTION B-B
(EXISTING JOINT)



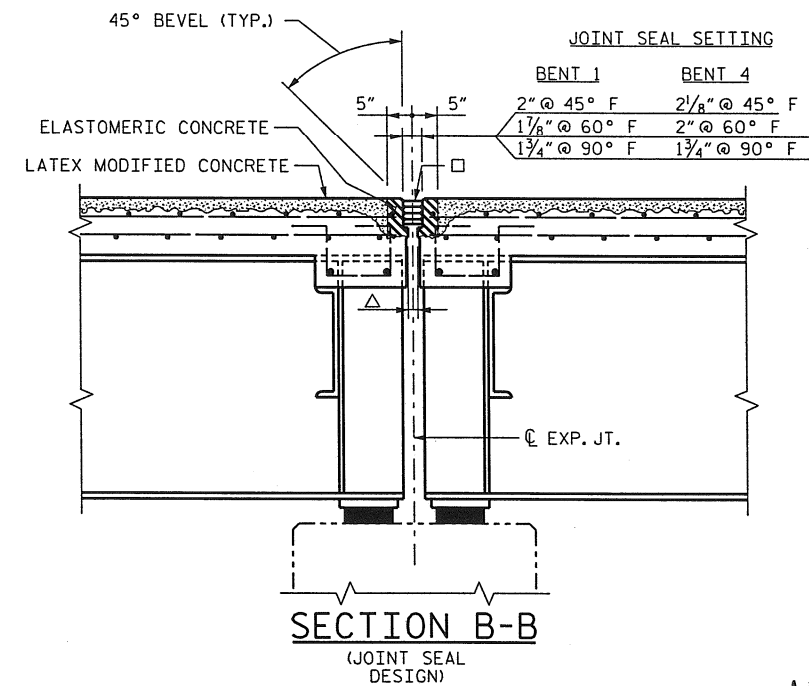
SECTION B-B
(EST. MAX. EXISTING JOINT DEMOLITION)

NOTE: RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.

* FROM BEST AVAILABLE INFORMATION.

Ⓐ CLASS II SURFACE PREPARATION REQUIRED TO REMOVE UNSOUND CONCRETE AND PREPARE SURFACE FOR ELASTOMERIC CONCRETE.

ALL EXISTING JOINT SEAL MATERIALS EXPOSED BY DECK REPAIRS SHALL BE REMOVED, OTHERWISE, LEAVE EXISTING MATERIALS IN PLACE.



SECTION B-B
(JOINT SEAL DESIGN)

□ USE 2.8125" X 2.5" UNCOMPRESSED EVAZOTE JT. SEAL MATERIAL
△ 1" FORMED OPENING

ELASTOMERIC CONCRETE	
LOCATION	QTY
BENT 1	14.6 C.F.
BENT 2	14.6 C.F.

TOTAL ELASTOMERIC CONC. = 29.2 C.F.
TOTAL ELASTOMERIC CONC. = 1.1 C.Y.

PROJECT NO. WBS 17BP.6.P.1
COLUMBUS COUNTY
STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
EXPANSION JOINT DETAILS					
DECK REHAB. FOR BRIDGE NO. 022					
REVISIONS					SHEET NO. S022-5
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					5



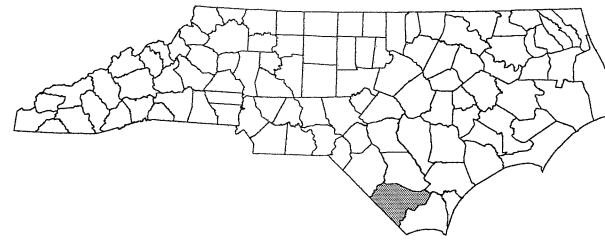
Stantec Consulting Services Inc.
801 Jones Franklin Road
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Tel. (919) 851-8866
Fax. (919) 851-7024
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DRAWN BY : J. L. HENNEKES DATE : 09-12-11
CHECKED BY : J. T. KELVINGTON DATE : 09-12-11

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

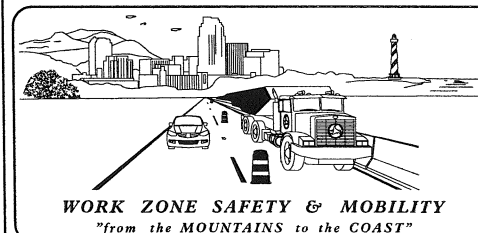
COLUMBUS COUNTY
DIVISION 6



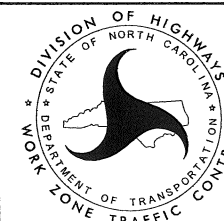
COLUMBUS BRIDGE #17 – US 701 BUS. OVER US 74/US 76 BYPASS

COLUMBUS BRIDGE #18 – US 74/NC 130 WBL OVER LUMBER RIVER OVERFLOW

COLUMBUS BRIDGE #22 – NC 87 OVER CSX RAILROAD



PLAN PREPARED FOR NCDOT BRIDGE MANAGEMENT UNIT
RALEIGH, NC



PLAN PREPARED BY:
Stantec Consulting Services Inc.
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Tel. 919.851.6866
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www.stantec.com

BETSY L. WATSON, P.E.

TRAFFIC ENGINEER

GEORGE KARAGEORGE

TRANSPORTATION DESIGNER

APPROVED: *Betsy L. Watson*
DATE: 10/25/11

SEAL



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2	GENERAL NOTES & TRAFFIC CONTROL PHASING

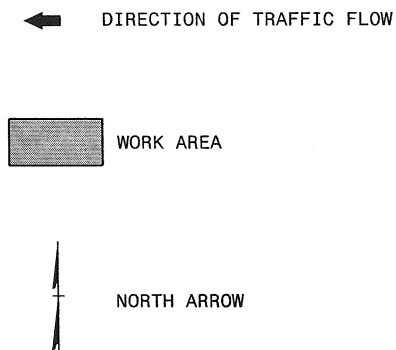
SHEET NO.

TMP-1

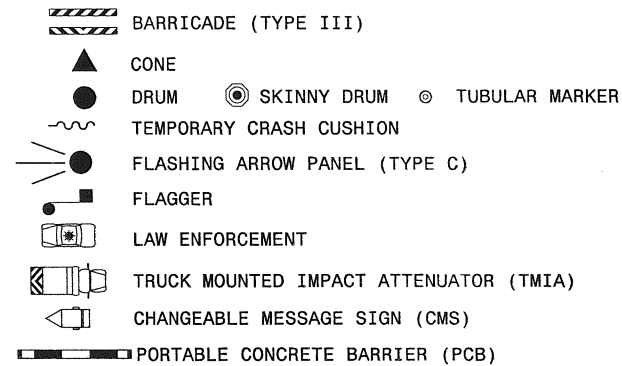
WBS 17BP.6.P.1

LEGEND

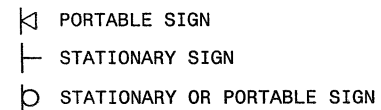
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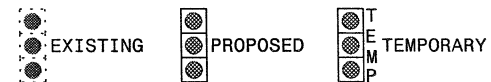
TRAFFIC CONTROL DEVICES



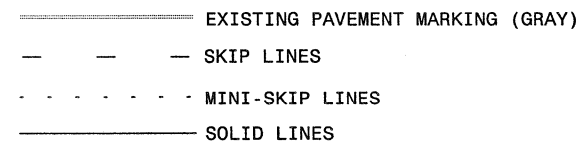
TEMPORARY SIGNING



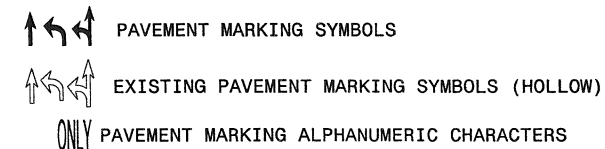
SIGNALS



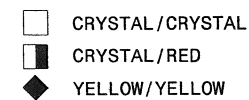
PAVEMENT MARKINGS



PAVEMENT MARKING SYMBOLS



PAVEMENT MARKERS



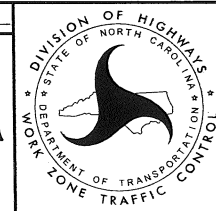
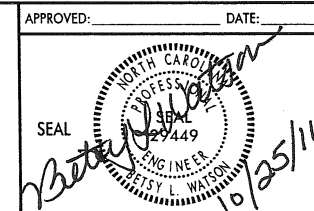
ROADWAY STANDARD DRAWINGS

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
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS



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ROADWAY STANDARD DRAWINGS
&
LEGEND

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
WBS 17BP.6.P.1	TMP-2

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE PROJECT EXCEPT WHEN 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 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.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND HOLIDAY WEEKENDS AS FOLLOWS:

ROAD NAME
ALL ROADS

- 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 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- E) 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. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW PANEL AND MESSAGE BOARDS.
- F) 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.
- G) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

PAVEMENT MARKINGS AND MARKERS

- I) RECORD ALL LOCATIONS AND TYPES OF EXISTING PAVEMENT MARKINGS AS THEY WILL BE REPLACED IN THE SAME LOCATION ON THE NEW SURFACE.
- J) REPLACE PAVEMENT MARKINGS BEFORE OPENING LANES TO TRAFFIC.
- K) UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	PAVEMENT MARKER
ALL	POLYUREA	PERMANENT RAISED

MISCELLANEOUS

- L) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- M) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- N) MAINTAIN DRIVEWAY ACCESS AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- O) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

TRAFFIC CONTROL PHASING

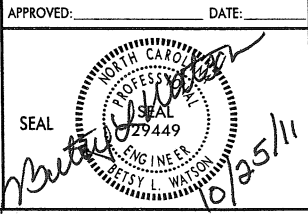
DURING WORK ON BRIDGES #17 AND #22 USE FLAGGER CONTROLLED LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9.

DURING WORK ON BRIDGE #18 USE LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 9.

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gkaragoege



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GENERAL NOTES
&
TRAFFIC CONTROL PHASING