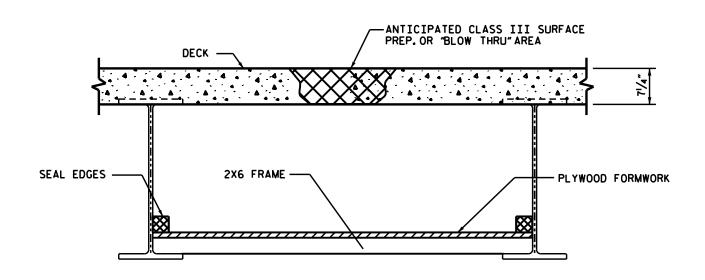


TYPICAL SECTION



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 SO. YARD OF HYDRO-DEMOLITION.

	TOTAL BILL OF MATERIAL									
* DECK SCARIFICATION	CLASS I SURFACE PREPARATION	CLASS II SURFACE PREPARATION	CLASS III SURFACE PREPARATION	CLASS AA CONCRETE	1	LATEX MODIFIED	PLACING & FINISHING LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS	
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	C.Y.	SO.YDS.	C.Y.	SO.YDS.	LUMP SUM	SO.FT.	
933	590	32	0	0	622	22	622	LUMP SUM	4,958	

ALL QUANTITY SHOWN ARE FOR INFORMATION ONLY.

* INCLUDES APPROACH MILLING.

DRAWN BY:S.T.SANDOR DATE:APRIL/2011 CHECKED BY:R.N./Z.W. DATE:APRIL/2011 NOTES

FOR OVERLAY OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH. SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

EXPANSION JOINTS SHALL BE COVERED WITH POLYETHYLENE SHEETING OR OTHER APPROVED DAMDS PRIOR TO BEGINNING CLASS I SURFACE PREPARATION. SEE SPECIAL PROVISIONS.

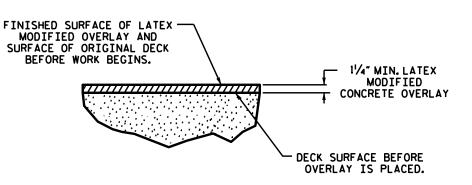
FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

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 III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF DECK. SEE DETAIL.

THE CONSTRUCTION JOINTS SHALL BE SAWED NO MORE THAN 3 HOURS AFTER THE LATEX MODIFIED OVERLAY IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALENT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM WITH REOUIREMENTS OF TYPE SL LOW MODULUS SILICON SEALER.

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE DATA.



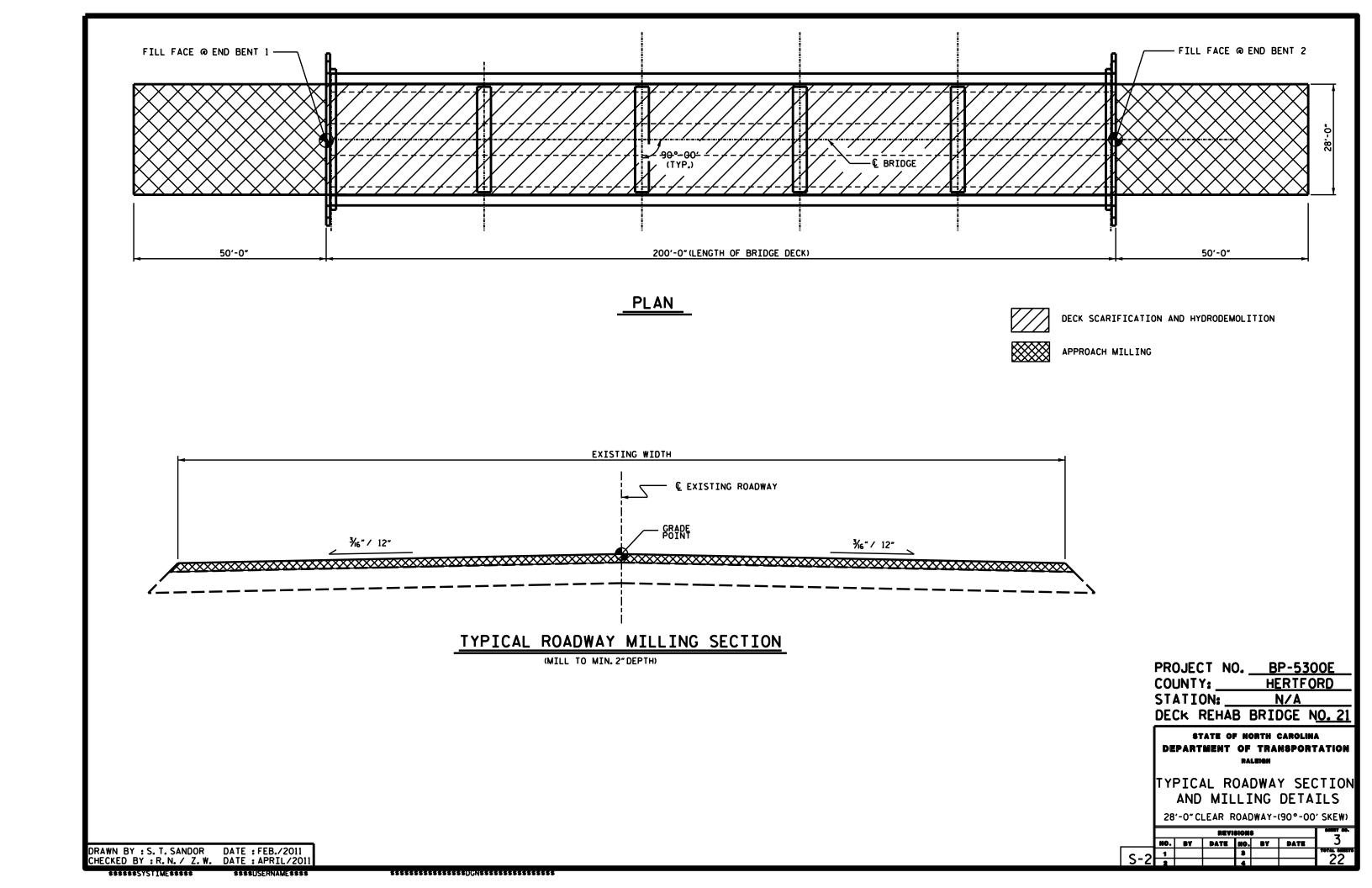
MODIFIED CONCRETE OVERLAY

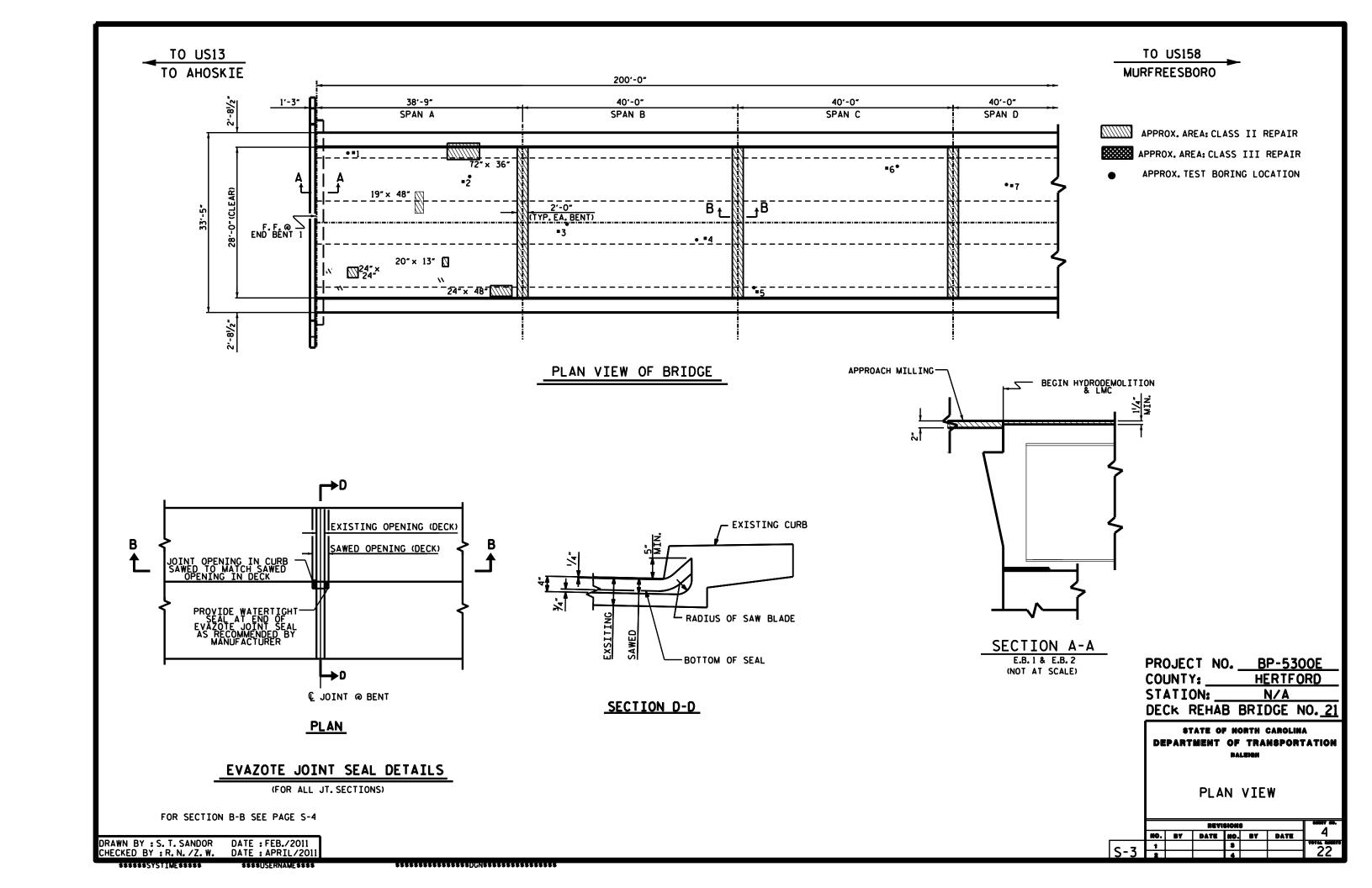
PROJECT NO. BP-5300E
COUNTY: HERTFORD
STATION: N/A
BRIDGE NO. 21

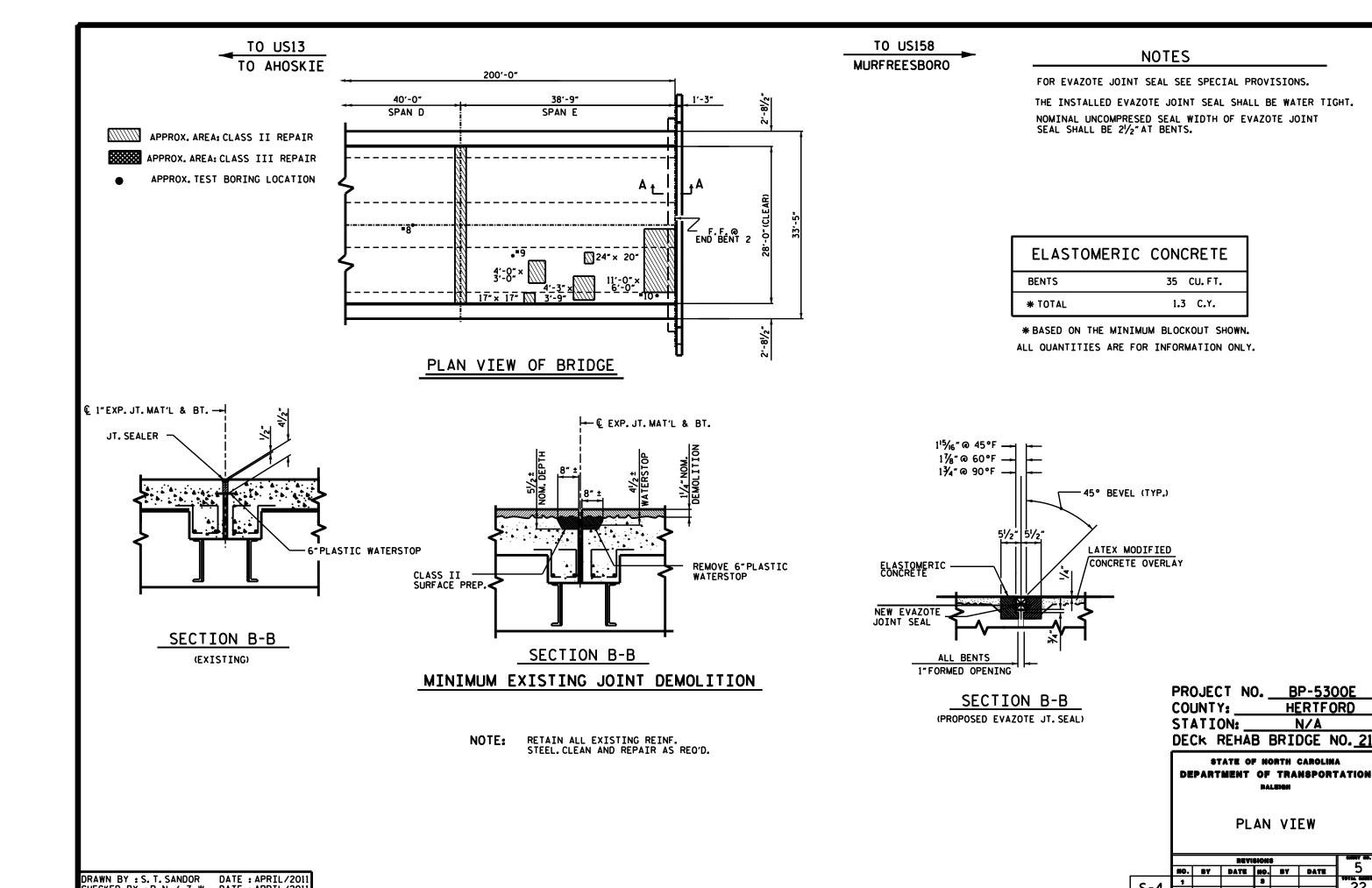
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
BALEIGH

TYPICAL SECTIONS

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DUN\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$



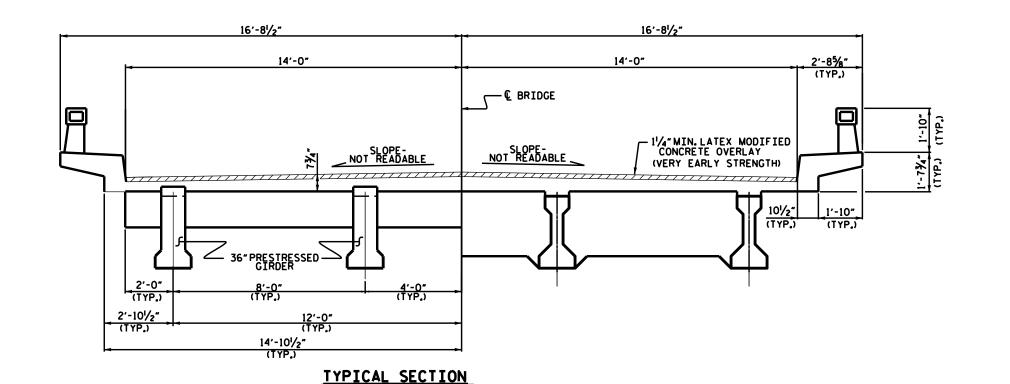




5

HECKED BY : R. N. / Z. W. DATE : APRIL/2011 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DUN\$\$\$\$\$\$\$\$\$\$\$\$\$

DRAWN BY : S. T. SANDOR DATE : APRIL/2011



NOTES

FOR OVERLAY OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

EXPANSION JOINTS SHALL BE COVERED WITH POLYETHYLENE SHEETING OR OTHER APPROVED DAMDS PRIOR TO BEGINNING CLASS I SURFACE PREPARATION. SEE SPECIAL

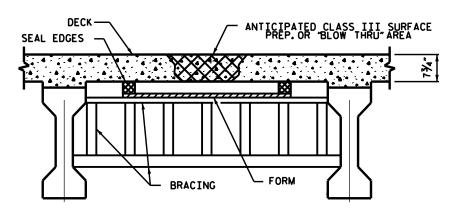
FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

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 III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF DECK. SEE DETAIL.

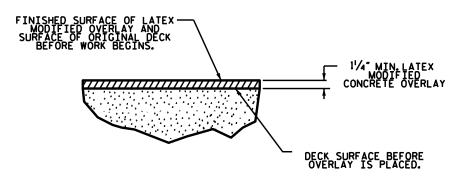
THE CONSTRUCTION JOINTS SHALL BE SAWED NO MORE THAN 3 HOURS AFTER THE LATEX MODIFIED OVERLAY IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALENT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM WITH REQUIREMENTS OF TYPE SL LOW MODULUS SILICON SEALER.

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE DATA.



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 SO. YARD OF HYDRO-DEMOLITION.



DETAIL FOR LATEX
MODIFIED CONCRETE OVERLAY

	TOTAL BILL OF MATERIAL								
* DECK SCARIFICATION	CLASS I SURFACE PREPARATION	CLASS II SURFACE PREPARATION	CLASS III SURFACE PREPARATION	CLASS AA CONCRETE	HYDRO- DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	C.Y.	SO.YDS.	C.Y.	SO.YDS.	LUMP SUM	SO.FT.
1664	1420	87	1	0	1508	52	1508	LUMP SUM	12029

ALL QUANT

* INCLUDES APPROACH MILLING.

DRAWN BY : S. T. SANDOR DATE : APRIL/201 CHECKED BY : R. N. / Z. W. DATE : MAY/2011

								02/120	1200110
	SO.YDS.	SO.YDS.	SO.YDS.	C.Y.	SO.YDS.	C.Y.	SO.YDS.	LUMP SUM	SO.FT.
	1420	87	1	0	1508	52	1508	LUMP SUM	12029
ITITY	Y SHOWN ARE FOR	INFORMATION OF	NLY.						

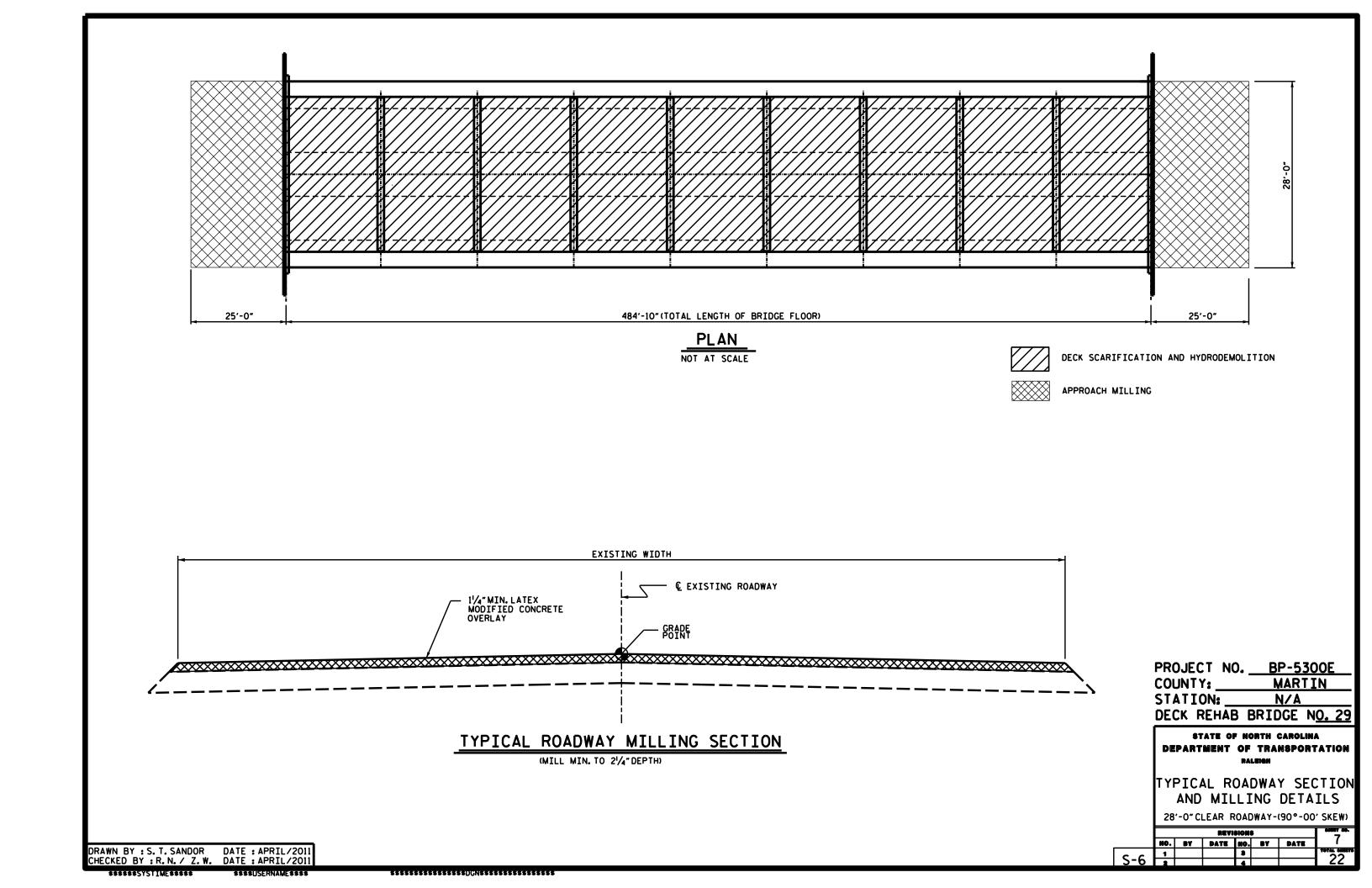
PROJECT NO. BP-5300E MARTIN COUNTY: STATION: N/A BRIDGE NO. 29

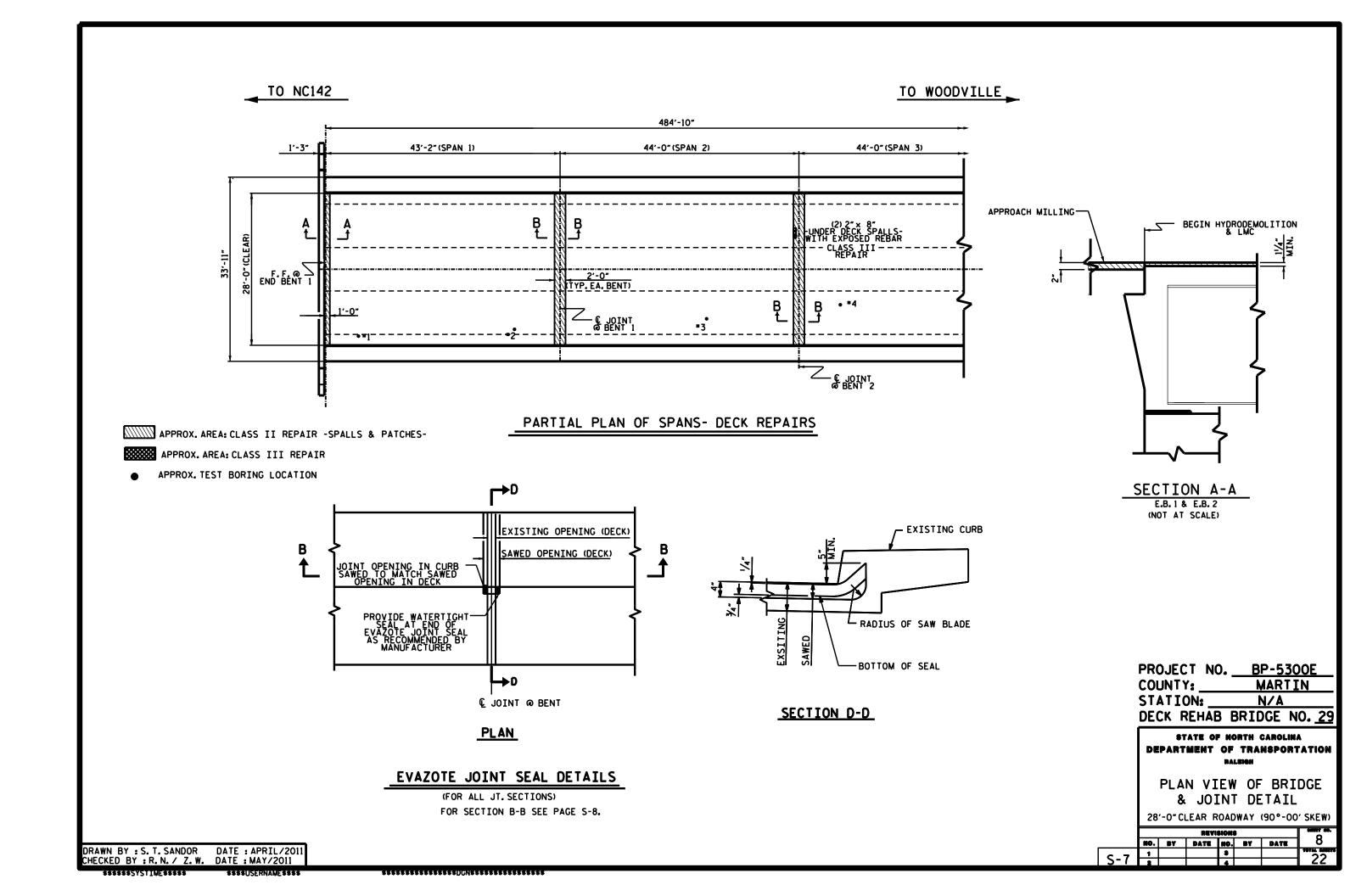
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

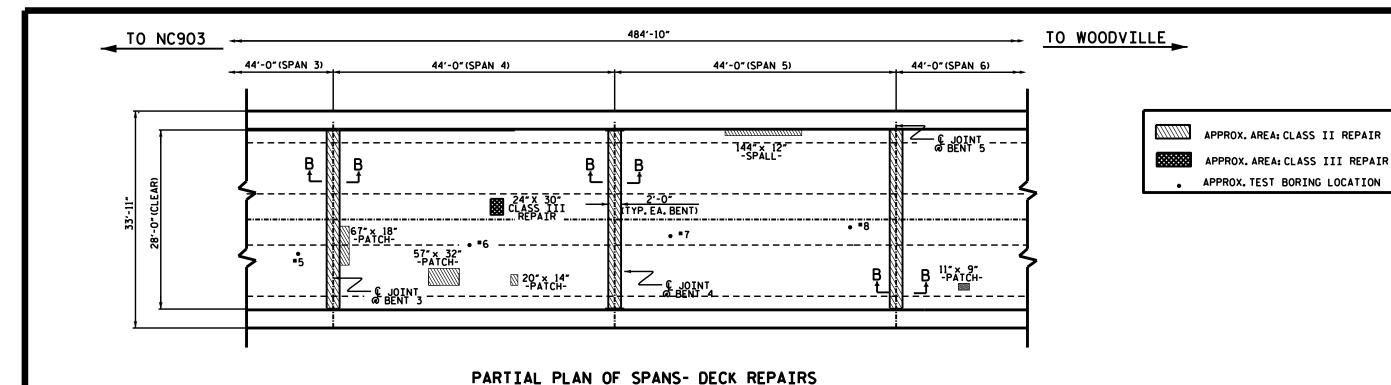
TYPICAL SECTIONS

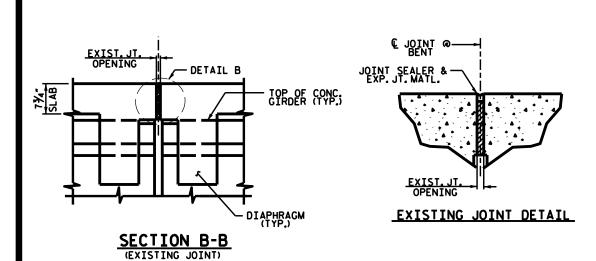
		\$600T 80.					
	NO.	BY	DATE	NO.	BY	DATE	6
<u> </u>	1			•			107AL SHEET!
5-5	2			4			

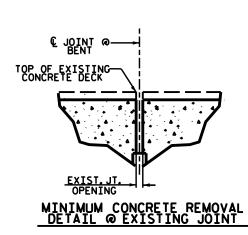
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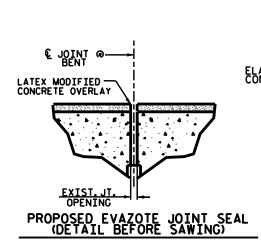


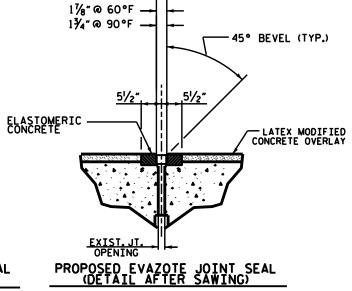












S-8

115/16" @ 45°F -

DETAIL B

NOTES

FOR EVAZOTE JOINT SEAL SEE SPECIAL PROVISIONS.

THE INSTALLED EVAZOTE JOINT SEAL SHALL BE WATER TIGHT. NOMINAL UNCOMPRESED SEAL WIDTH OF EVAZOTE JOINT SEAL SHALL BE $2\frac{1}{2}$ AT BENTS.

ELASTOMERIC CONCRETE

BENTS	58 CU.FT.
* TOTAL	2.2 C.Y.

*BASED ON THE MINIMUM BLOCKOUT SHOWN.
ALL QUANTITIES ARE FOR INFORMATION ONLY.

PROJECT NO. BP-5300E
COUNTY: MARTIN
STATION: N/A
DECK REHAB BRIDGE NO. 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEGEN

PLAN VIEW OF BRIDGE & JOINT DETAIL

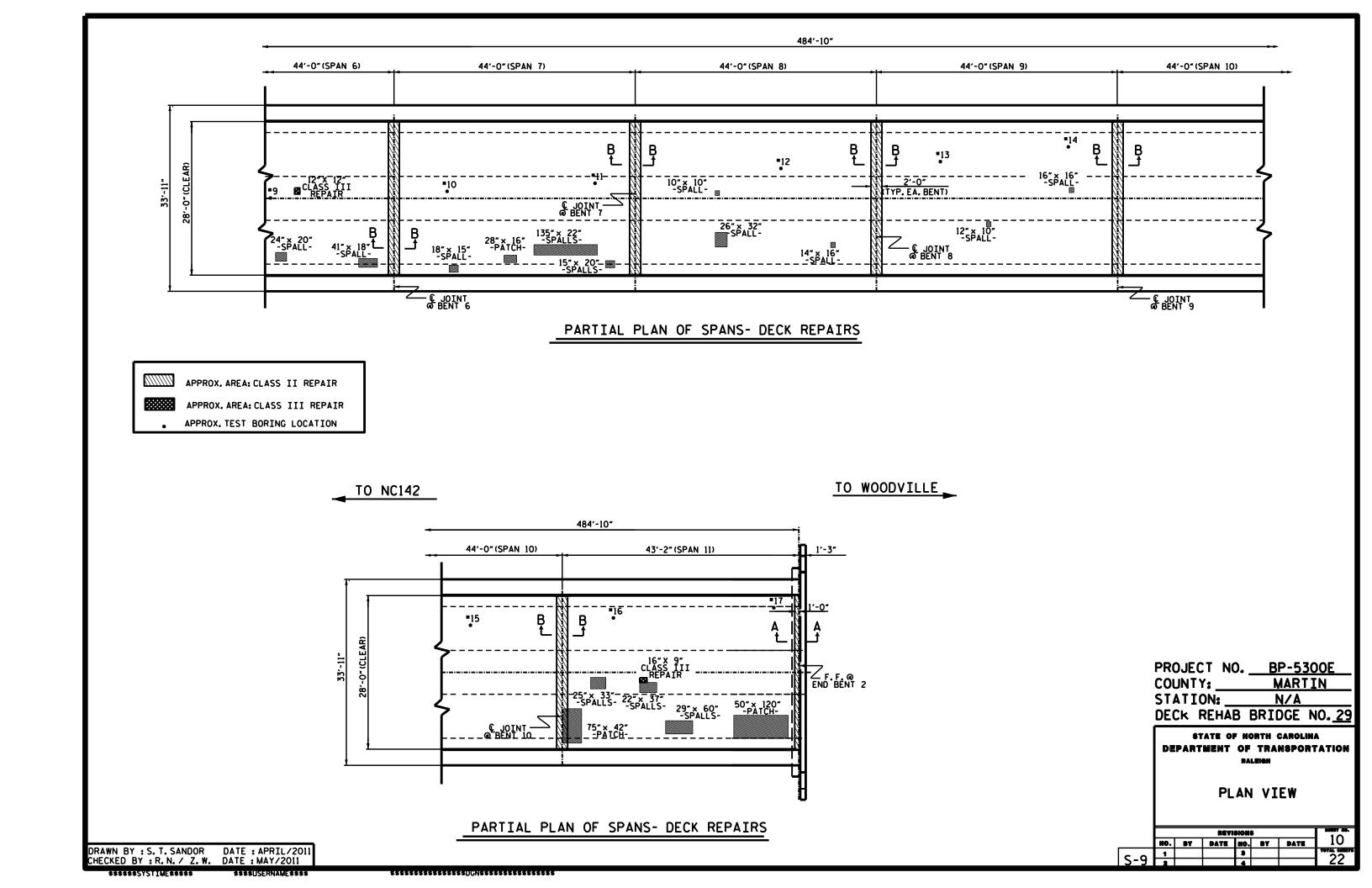
28'-0"CLEAR ROADWAY (90°-00' SKEW)

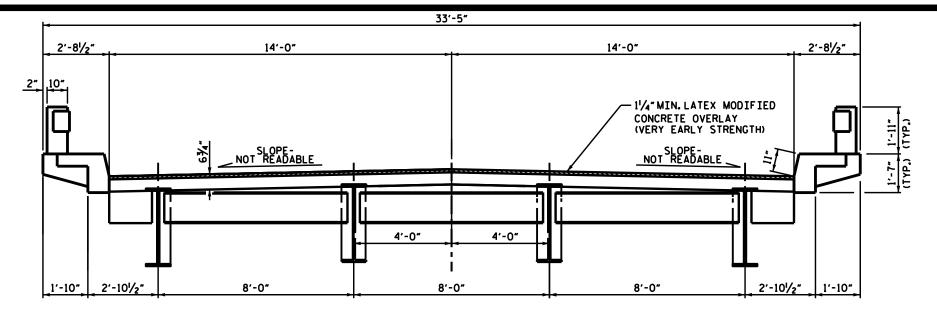
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DRAWN BY:S.T.SANDOR DATE:APRIL/2011
CHECKED BY:R.N./Z.W. DATE:MAY/2011

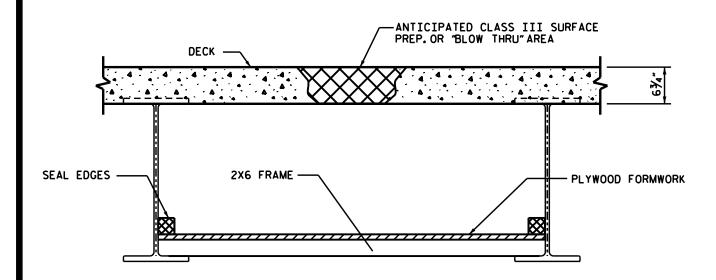
\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$USERNAME\$

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DGN\$\$\$\$\$\$\$\$\$\$\$\$\$





TYPICAL SECTION



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 SO. YARD OF HYDRO-DEMOLITION.

INISHED SURFACE OF LATEX MODIFIED OVERLAY AND SURFACE OF ORIGINAL DECK BEFORE WORK BEGINS. 11/4"MIN .LATEX MODIFIED CONCRETE OVERLAY	
DECK SURFACE BEFORE OVERLAY IS PLACED.	

DETAIL FOR LATEX
MODIFIED CONCRETE OVERLAY

	TOTAL BILL OF MATERIAL								
* DECK SCARIFICATION	CLASS I SURFACE PREPARATION	CLASS II SURFACE PREPARATION	CLASS III SURFACE PREPARATION	CLASS AA CONCRETE	HYDRO- DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	C.Y.	SO.YDS.	C.Y.	SO.YDS.	LUMP SUM	SO.FT.
593	422	15	0	0	437	15	437	LUMP SUM	3,512

ALL QUANTITY SHOWN ARE FOR INFORMATION ONLY.

* INCLUDES APPROACH MILLING.

DRAWN BY:S.T.SANDOR DATE:APRIL/201 CHECKED BY:R.N./Z.W. DATE:MAY/2011

\$\$\$\$\$\$\$\$Y\$TIME\$\$\$\$\$ \$\$\$\$U\$ERNAME\$\$\$\$

NOTES

FOR OVERLAY OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

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 III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED

THE CONSTRUCTION JOINTS SHALL BE SAWED NO MORE THAN 3 HOURS AFTER THE LATEX MODIFIED OVERLAY IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALENT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM WITH REOUIREMENTS OF

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE

BLOW THROUGH OF DECK. SEE DETAIL.

TYPE SL LOW MODULUS SILICON SEALER.

EXPANSION JOINTS SHALL BE COVERED WITH POLYETHYLENE SHEETING OR OTHER APPROVED DAMDS PRIOR TO BEGINNING CLASS I SURFACE PREPARATION. SEE SPECIAL

PROJECT NO. BP-5300E

COUNTY: _ STATION:

BRIDGE NO.

MARTIN

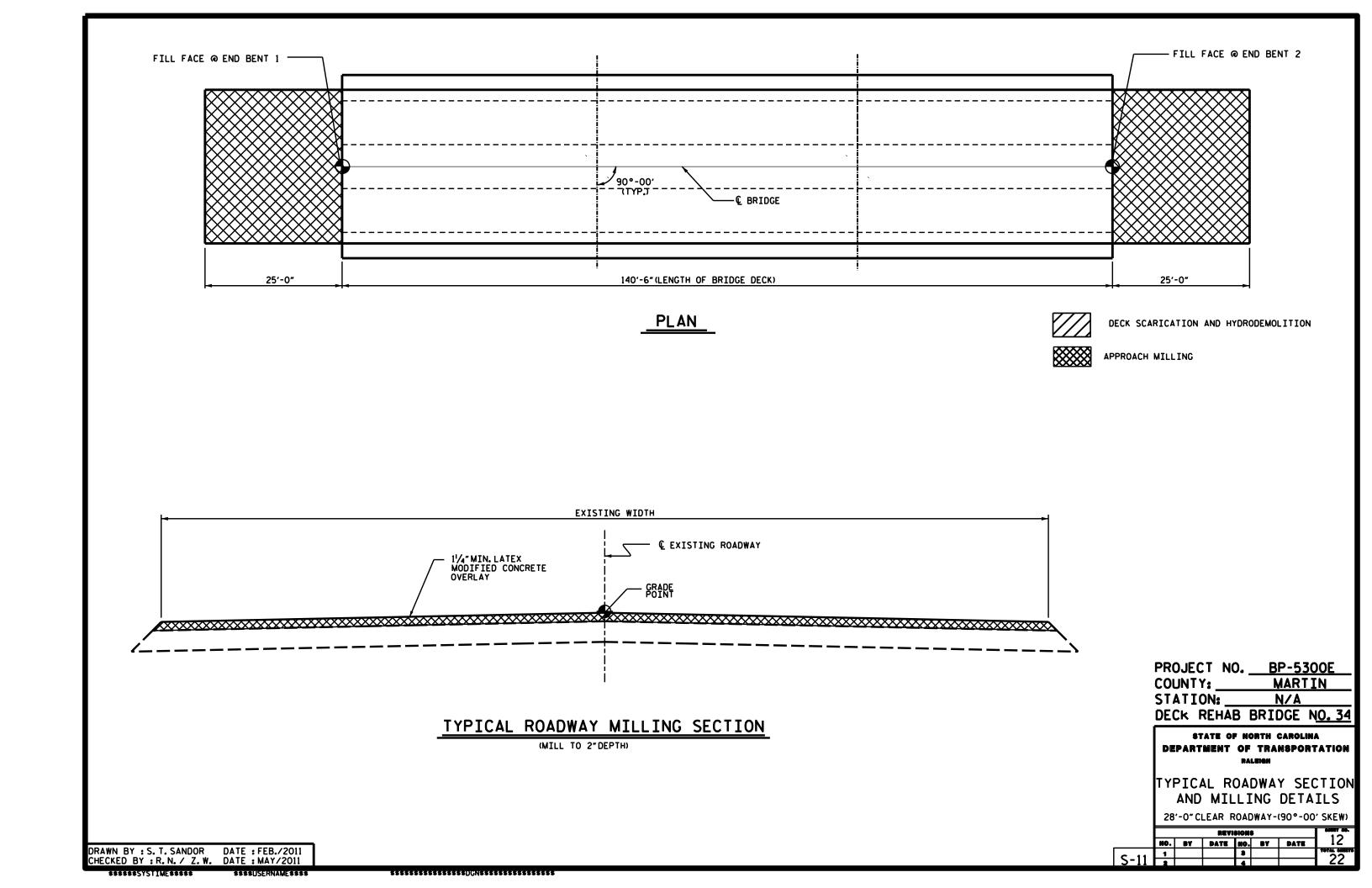
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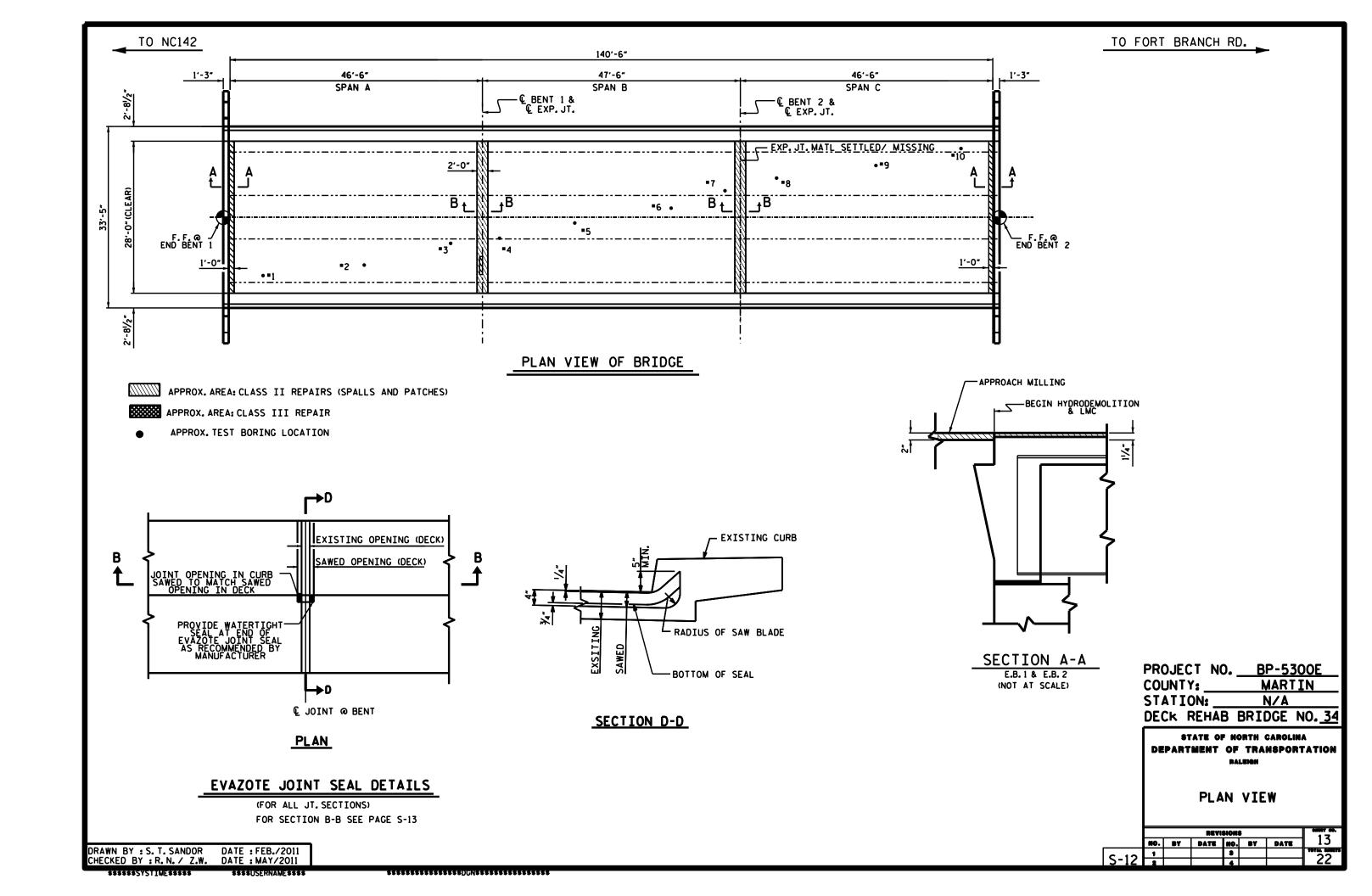
34

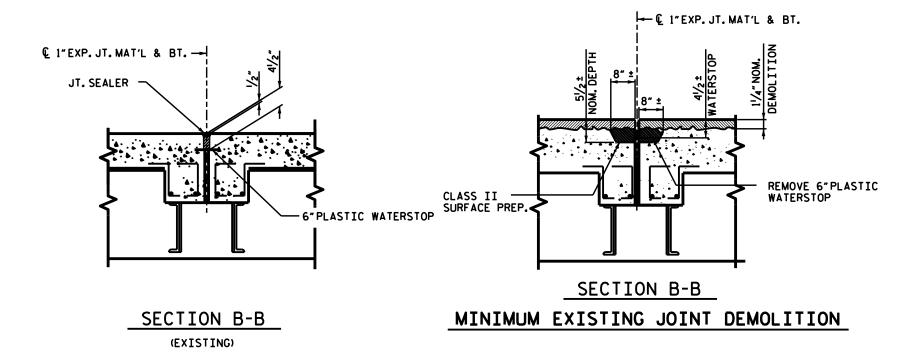
STATE OF MORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

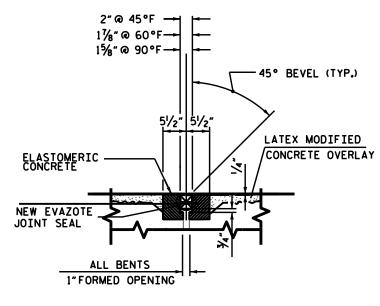
\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$JUN\$\$\$\$\$\$\$\$\$\$\$\$\$\$







\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DUN\$\$\$\$\$\$\$\$\$\$\$\$\$\$



SECTION B-B
(PROPOSED EVAZOTE JT. SEAL)

NOTE:

RETAIN ALL EXISTING REINF. STEEL. CLEAN AND REPAIR AS REO'D.

ELASTOMERIC	CONCRETE
BENTS	18 CU.FT.
* TOTAL	0.7 C.Y.

*BASED ON THE MINIMUM BLOCKOUT SHOWN.
ALL QUANTITIES ARE FOR INFORMATION ONLY.

NOTES

FOR EVAZOTE JOINT SEAL SEE SPECIAL PROVISIONS. THE INSTALLED EVAZOTE JOINT SEAL SHALL BE WATER TIGHT. NOMINAL UNCOMPRESED SEAL WIDTH OF EVAZOTE JOINT SEAL SHALL BE $2^1\!/_2$ " AT BENTS.

PROJECT NO. BP-5300E
COUNTY: MARTIN
STATION: N/A
DECK REHAB BRIDGE NO. 34

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGN

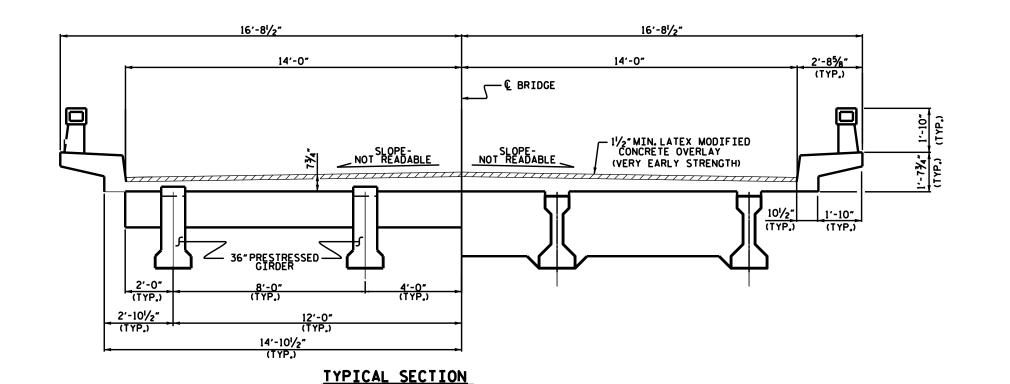
BENT JOINT DETAILS

28'-0"CLEAR ROADWAY (90°-00' SKEW)

| REVISIONS | COURT OF COURT O

DRAWN BY: S. T. SANDOR DATE: FEB./2011
CHECKED BY: R. N. / Z.W. DATE: MAY/2011

\$\$\$\$\$\$\$Y\$TIME\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$\$





FOR OVERLAY OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

EXPANSION JOINTS SHALL BE COVERED WITH POLYETHYLENE SHEETING OR OTHER APPROVED DAMDS PRIOR TO BEGINNING CLASS I SURFACE PREPARATION. SEE SPECIAL PROVISIONS.

FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

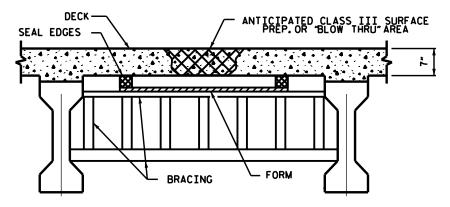
THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN -OFF WATER FROM THE HYDRO- DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.

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

THE CONSTRUCTION JOINTS SHALL BE SAWED NO MORE THAN 3 HOURS AFTER THE LATEX MODIFIED OVERLAY IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALENT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM WITH REOUIREMENTS OF TYPE SL LOW MODULUS SILICON SEALER.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE DATA.

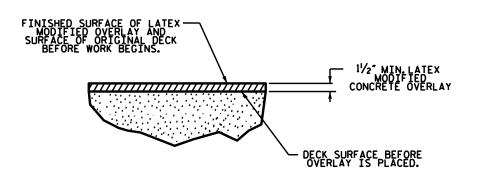


TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

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 SO. YARD OF HYDRO-DEMOLITION.



DETAIL FOR LATEX
MODIFIED CONCRETE OVERLAY

	TOTAL BILL OF MATERIAL								
*** DECK SCARIFICATION	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	* CLASS AA CONCRETE	HYDRO- DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	C.Y.	SO.YDS.	C.Y.	SO.YDS.	LUMP SUM	SO.FT.
1390	1169	64	1	0	1234	52	1234	LUMP SUM	9846

ALL QUANTITY SHOWN ARE FOR INFORMATION ONLY.

* INCLUDES APPROACH MILLING.

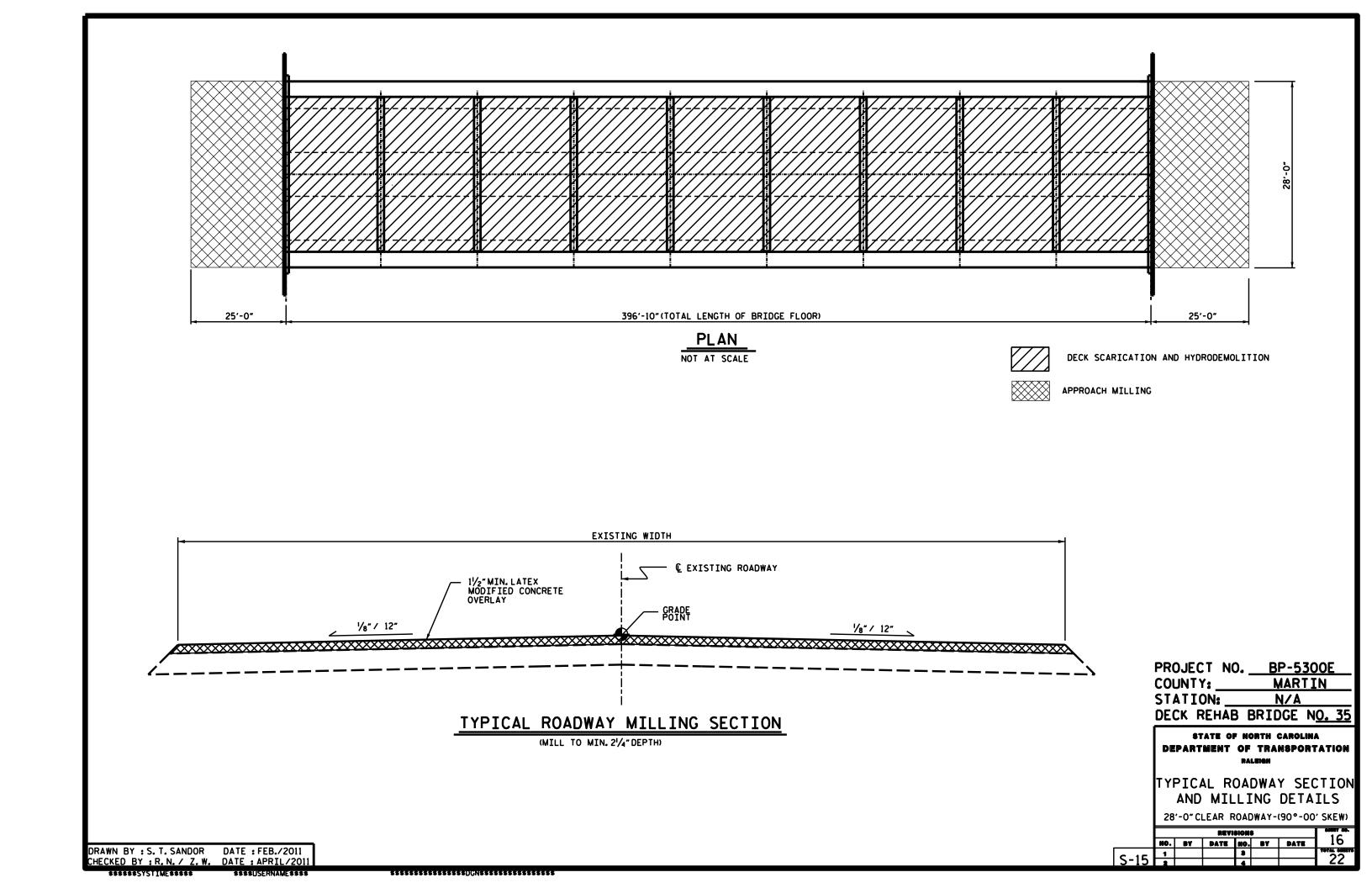
DRAWN BY :S.T.SANDOR DATE :APRIL/2011 CHECKED BY :R.N./ Z.W. DATE :MAY/2011

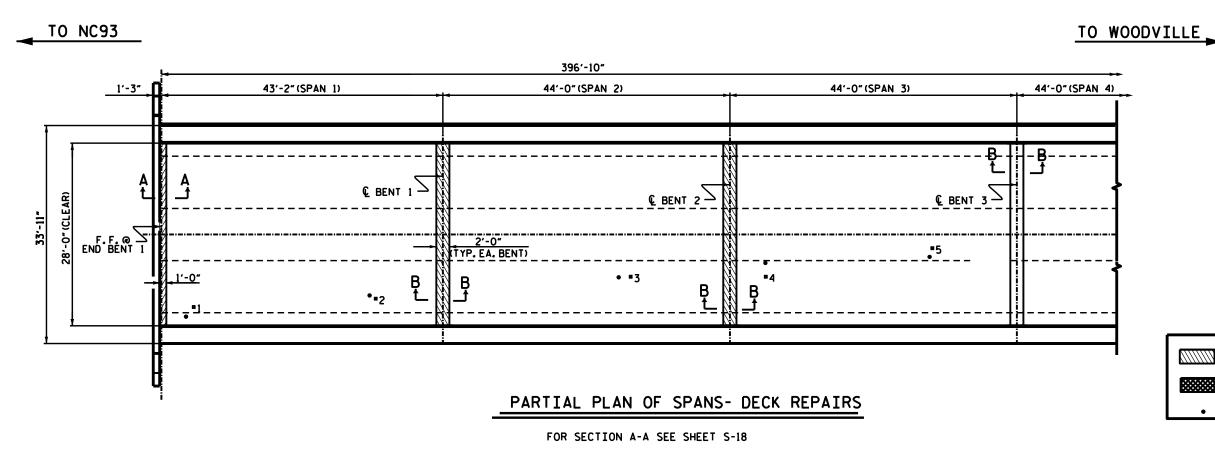
PROJECT NO.	BP-5300E
COUNTY:	MARTIN
STATION:	N/A
BRIDGE NO.	<u>35</u>

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
BALENCH

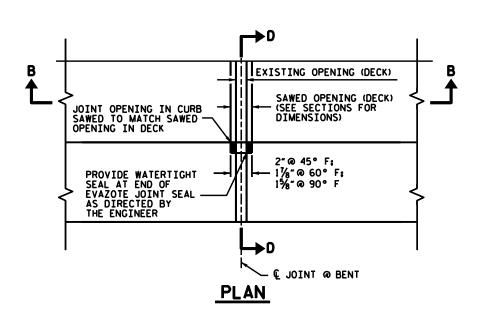
TYPICAL SECTIONS OF BRIDGE No. 29 ON NC 11 OVER ROANOKE RIVER OVERFLOW

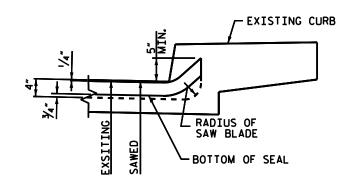
	REVISIONS					98887 80.	
	NO.	BY	DATE	NO.	BY	DATE	12
C 14	1			3			101/1 21001
5-14							1 <i>ZZ</i>





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





SECTION D-D

EVAZOTE JOINT SEAL DETAILS

(FOR ALL JT. SECTIONS)

DRAWN BY :S.T.SANDOR DATE :APRIL/2011 CHECKED BY :E.B.N./Z.W. DATE :MAY/2011

******SYSTIME**** SSSSUSERNAMESSSS FOR SECTION B-B SEE PAGE S-17

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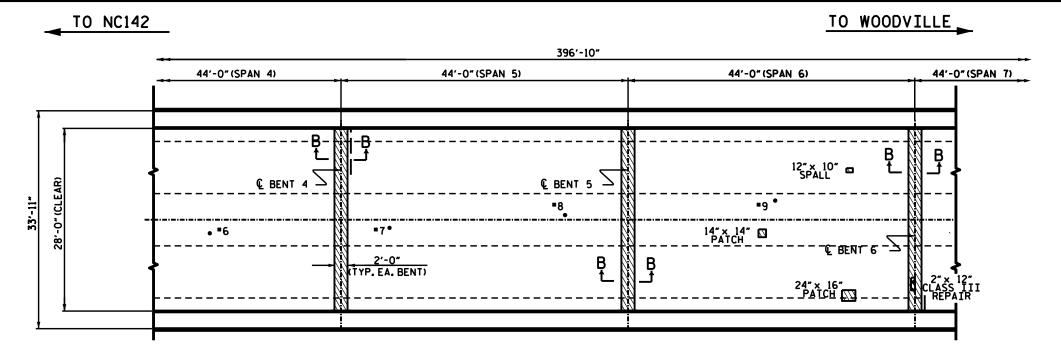
PROJECT NO. <u>BP-5300E</u> COUNTY: _ MARTIN STATION: N/A DECK REHAB BRIDGE NO. 35

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLAN VIEW OF BRIDGE & JOINT DETAIL

28'-0"CLEAR ROADWAY (90°-00' SKEW)

	MEAIRIONR				1.7		
	NO.	BY	DATE	NO.	BY	DATE	17
,	•			3			TOTAL CAREETS
2-16	2			4			22

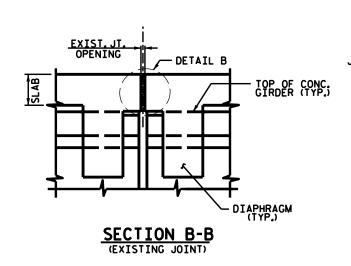


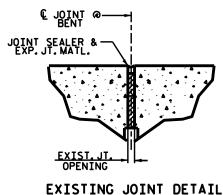
APPROX. AREA: CLASS II REPAIR

APPROX. AREA: CLASS III REPAIR

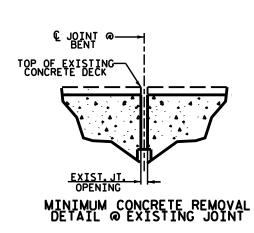
APPROX. TEST BORING LOCATION

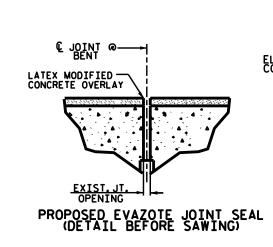
PARTIAL PLAN OF SPANS- DECK REPAIRS

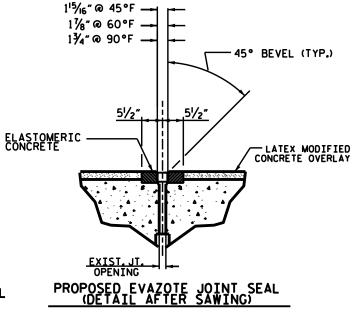




\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DUN\$\$\$\$\$\$\$\$\$\$\$\$\$\$







DETAIL B

NOTES

FOR EVAZOTE JOINT SEAL SEE SPECIAL PROVISIONS.

THE INSTALLED EVAZOTE JOINT SEAL SHALL BE WATER TIGHT. NOMINAL UNCOMPRESED SEAL WIDTH OF EVAZOTE JOINT SEAL SHALL BE 21/2" AT BENTS.

ELASTOMERIC CONCRETE 47 CU.FT. **BENTS** * TOTAL 1.8 C.Y.

* BASED ON THE MINIMUM BLOCKOUT SHOWN. ALL QUANTITIES ARE FOR INFORMATION ONLY.

PROJECT NO. BP-5300E COUNTY: _ MARTIN STATION: N/A DECK REHAB BRIDGE NO. 35

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLAN VIEW OF BRIDGE & JOINT DETAIL

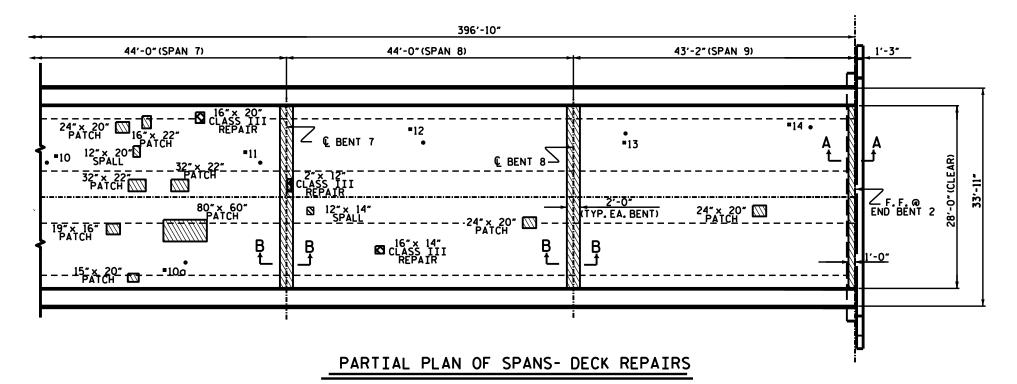
28'-0"CLEAR ROADWAY (90°-00' SKEW)

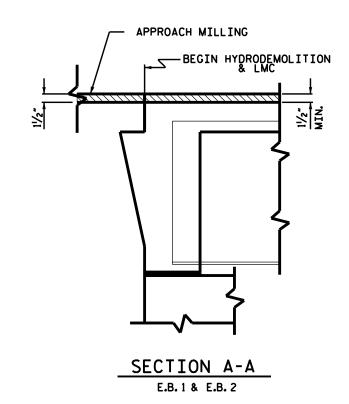
18 DATE NO. BY DATE S-17

DRAWN BY : S. T. SANDOR DATE : APRIL/2011 CHECKED BY : E. B. N. /Z.W. DATE : MAY/2011 ssssssystimessss SSSSUSERNAMESSSS



TO WOODVILLE





\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DGN\$\$\$\$\$\$\$\$\$\$\$\$\$\$

PROJECT NO. BP-53000E
COUNTY: MARTIN
STATION: N/A
DECK REHAB BRIDGE NO. 35

STATE OF MORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLAN VIEW OF BRIDGE & JOINT DETAIL

28'-0"CLEAR ROADWAY (90°-00' SKEW)

10	
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5-18 2 4 2	

DRAWN BY : S. T. SANDOR DATE : APRIL/2011 CHECKED BY : E. B. N. / Z.W. DATE : MAY/2011

\$\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$\$

45438.I.

5300E 20

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PLAN FOR PROPOSED TRAFFIC CONTROL

HERTFORD-MARTIN

LOCATION: BRIDGE NO.S HERTFORD 21, MARTIN 29, 34, 35 TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE REHABILITATION

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARD DRAWINGS 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
1130.01	DRUMS
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS

INDEX OF SHEETS

SHEET NO.

TITLE

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, & INDEX OF SHEETS GENERAL NOTES AND TRAFFIC CONTROL PHASING FLAGGER CONTROLLED LANE CLOSURE

STATE PROJECT REFERENCE NO SHEET NO BP-5300E TCP-1

LEGEND

GENERAL

◆ DIRECTION OF TRAFFIC FLOW

NORTH ARROW



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

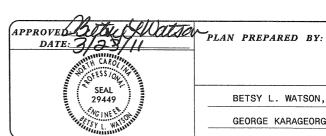
→ TEMPORARY CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

LAW ENFORCEMENT

FLAGGER





BETSY L. WATSON, PE

GEORGE KARAGEORGE

TRAFFIC CONTROL ENGINEER TRAFFIC CONTROL DESIGNER

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY

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 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 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.
- 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.
- 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.
- 9) FOR ANY SPECIAL EVENTS SUCH AS SPORTING EVENTS, FESTIVALS, ETC., AS DIRECTED BY THE ENGINEER. ALL LANE CLOSURES AND LANE CLOSURE TIME SCHEDULES MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTING.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) 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
- C) INSTALL ALL LANE CLOSURES ACCORDING TO THE TRAFFIC CONTROL PLAN, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 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) REPLACE EXISTING PAVEMENT MARKINGS WITH 2 APPLICATIONS OF PAINT.

MISCELLANEOUS

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

TRAFFIC CONTROL PHASING

PROJECT REFERENCE NO.

BP-5300E

SHEET NO.

TCP-2

UNLESS OTHERWISE ALLOWED BY THE ENGINEER, WORK AT ONLY ONE BRIDGE LOCATION AT A TIME, EXCEPT WHERE NOTED.

HERTFORD CO. BRIDGE #21

PERFORM BRIDGE REHABILITATION USING FLAGGER CONTROLLED LANE CLOSURES AS SHOWN ON SHEET TCP-3.

MARTIN CO. BRIDGE #29 AND #35

PERFORM BRIDGE REHABILITATION USING FLAGGER CONTROLLED LANE CLOSURES AS SHOWN ON SHEET TCP-3. THESE 2 BRIDGES MAY BE WORKED ON SIMULTANEOUSLY UNDER ONE FLAGGER OPERATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

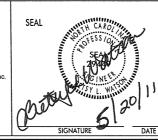
MARTIN CO. BRIDGE #34

PERFORM BRIDGE REHABILITATION USING FLAGGER CONTROLLED LANE CLOSURES AS SHOWN ON SHEET TCP-3.

PERFORM ONLY THE AMOUNT OF DECK REHABILITATION THAT CAN BE OVERLAYED TO FINAL ELEVATION BEFORE LANES ARE RE-OPENED TO TRAFFIC.



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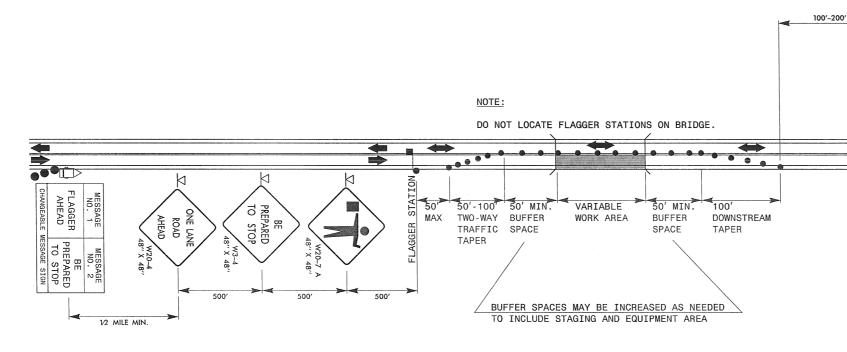
GENERAL NOTES TRAFFIC CONTROL PHASING

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REVISIONS

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NOTES

- 1. INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 2. PLACE DRUMS THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 3. DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE TWO-WAY TRAFFIC TAPER TO THE END OF THE LANE CLOSURE.
- 4. EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER. (REFER TO MINIMUM STOPPING SIGHT DISTANCE TABLE ON ROADWAY STD. DWG. 1101.11, SHEET 2)
- 5. DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 6. LOCATE FLAGGER STATIONS SUCH THAT APPROACHING TRAFFIC WILL HAVE SUFFICIENT DISTANCE TO STOP AT THE INTENDED STOPPING POINT. IF NEEDED, EXTEND THE LANE CLOSURE SUCH THAT THE FLAGGER STATION IS POSITIONED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE WHERE ADEQUATE STOPPING SIGHT DISTANCE TO THE FLAGGER IS PROVIDED. REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2.
- 7. FLAGGERS SHALL NOT STAND IN A LANE USED BY MOVING TRAFFIC. FLAGGERS SHALL STAND ON THE SHOULDER, WITHIN A CLOSED LANE, OR IN A LANE ONLY ONCE TRAFFIC IS STOPPED. FLAGGERS MUST BE PRESENT AT ALL TIMES DURING THE LANE CLOSURE. IF A FLAGGER IS NOT PRESENT AND FLAGGING TRAFFIC, THE LANE CLOSURE MUST BE REMOVED.
- 8. ILLUMINATE FLAGGER STATIONS AT NIGHT USING FLOOD LIGHTS OR OTHER METHODS APPROVED BY THE ENGINEER.
- 9. USE PILOT VEHICLES IN CONJUNCTION WITH FLAGGERS WHEN SHOWN IN THE PLAN OR WHEN DIRECTED BY THE ENGINEER. MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A VISIBLE LOCATION ON THE REAR OF PILOT VEHICLES.
- 10. ADVISE RESIDENTS AND BUSINESSES WITHIN OR NEAR THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING LANE CLOSURE OPERATIONS.
- 11. CHANGEABLE MESSAGE SIGN WORD MESSAGES AND LOCATIONS ARE TO BE APPROVED BY THE ENGINEER. ADDITIONAL MESSAGES MAY BE REQUIRED SUCH AS FOR PUBLIC INFORMATION OR DURING SPECIAL EVENTS.

NOTE

500'

500'

DURING PERIODS WHEN LANE CLOSURES ARE NOT IN EFFECT USE THE CHANGEABLE MESSAGE SIGNS TO INFORM THE PUBLIC OF UPCOMING TRAFFIC CONDITIONS. SOME EXAMPLE MESSAGES ARE SHOWN BELOW. ALL MESSAGES ARE TO BE APPROVED BY THE ENGINEER.

MESSAGE NO. 1	MESSAGE NO. 2
LANE	PLAN
CLOSURES	FOR
TUESDAY	DELAYS
CHANGEABLE N	FSSAGE STGN

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FLAGGER CONTROLLED LANE CLOSURE

DATE: MAR. 2011
DWG. BY: GK
DESIGN BY: GK



REVISIONS

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