



**LOCATION SKETCH**

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION ONLY. CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAY, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

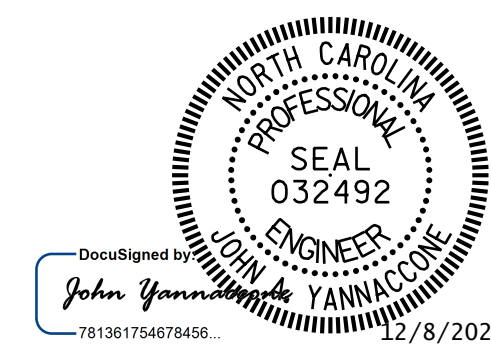
BRIDGE COORDINATES	
LATITUDE	LONGITUDE
34°-20'-56.86"	78°-39'-29.54"

**GENERAL NOTES**

- SEE CONTRACT DOCUMENTS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND POLYMER CONCRETE (PC) PLACEMENT.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT DUE TO THE NATURE OF PRESERVATION PROJECTS, THE EXTENT OF WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO COMMENCEMENT OF WORK. REPAIR LOCATIONS AND ESTIMATES OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIR.
- EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.
- THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN WHAT IS SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.
- WORK ON THE BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTOR'S PLAN USED PLATFORMS, NETS, SCREEN OR OTHER PROTECTIVE DEVICES TO CATCH THE MATERIAL. THE CONTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS. ANY DAMAGE TO EXISTING REINFORCING STEEL DURING CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- FOR CONTROL OF TRAFFIC AND LIMITS OF PHASING OF CONSTRUCTION, SEE CONTRACT DOCUMENTS.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.
- FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- ALL PAVEMENT MARKING WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATIONS OF THE BRIDGE DECK. THE CONTRACTOR SHALL TAKE CARE THAT ANY CONSTRUCTION DEBRIS THAT COLLECTS IN THE DRAINS IS CONTAINED. DRAINS IN SHOULDERS OF ADJACENT TRAVEL LANES SHALL BE KEPT FREE AND CLEAR OF DEBRIS.
- LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG THE CENTERLINE OR EDGE OF TRAVEL LANES.
- FOR SCARIFYING BRIDGE DECK, SHOTBLASTING BRIDGE DECK AND CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.
- FOR CONCRETE DECK REPAIR FOR PC OVERLAY, PC MATERIALS, AND PLACING AND FINISHING PC OVERLAY, SEE POLYMER CONCRETE BRIDGE DECK OVERLAY SPECIAL PROVISION.
- FOR POLLUTION CONTROL AND PAINTING CONTAINMENT, SEE PAINTING EXISTING WEATHERING STEEL STRUCTURE SPECIAL PROVISIONS.
- FOR PAINTING EXISTING WEATHERING STEEL STRUCTURE, SEE SPECIAL PROVISIONS.
- FOR EXPANSION JOINT SEAL REPAIR, SEE SPECIAL PROVISIONS.
- FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

PROJECT NO. **HI-0018**  
**COLUMBUS** COUNTY  
 BRIDGE NO. **230381**

SHEET 2 OF 2



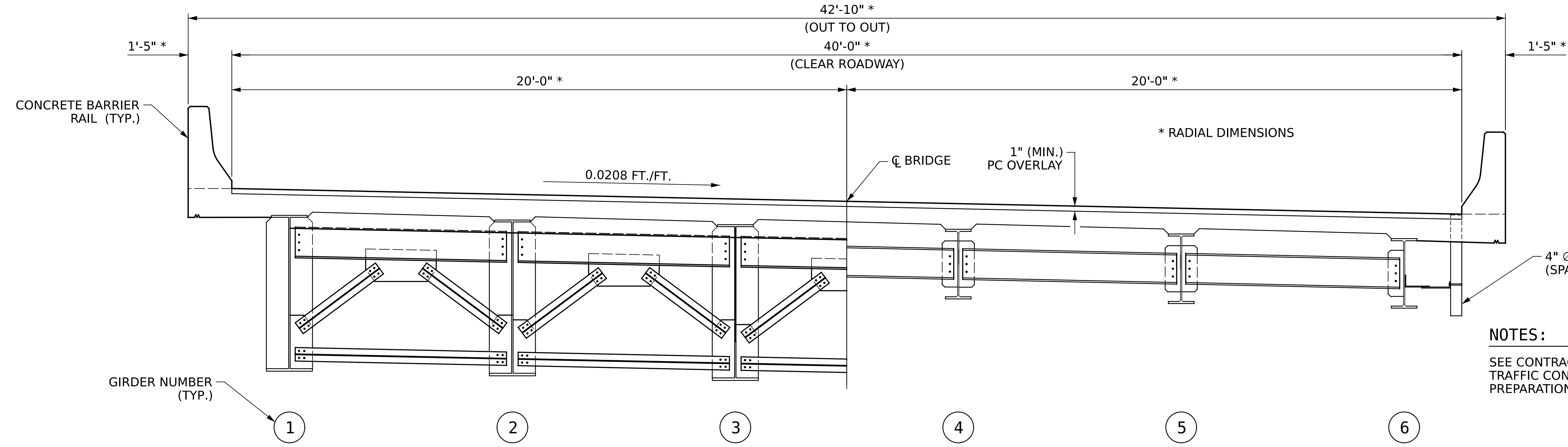
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**GENERAL DRAWING**  
 FOR BRIDGE ON  
 US 74 - US 76 BYP EBL  
 OVER SR 1700 (RED HILL ROAD)

DRAWN BY : **R.L.PUTEK** DATE : **08/2024**  
 CHECKED BY : **J.A.YANNACONE** DATE : **08/2024**



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	NO.	BY:	DATE:	NO.	BY:	DATE:	
	1			3			
	2			4			





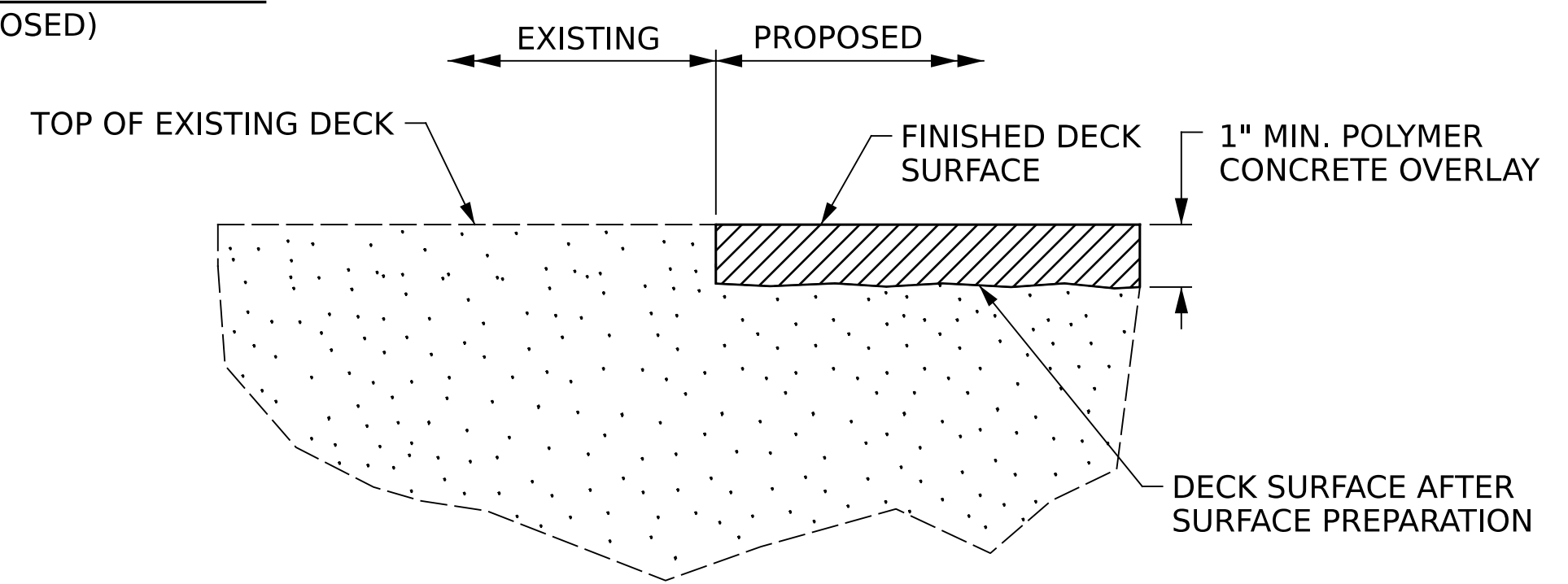
**NOTES:**  
SEE CONTRACT DOCUMENTS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND PC PLACEMENT.

**HALF SECTION THRU SPANS A, B AND C**  
(SHOWING BENT CROSSFRAMES)

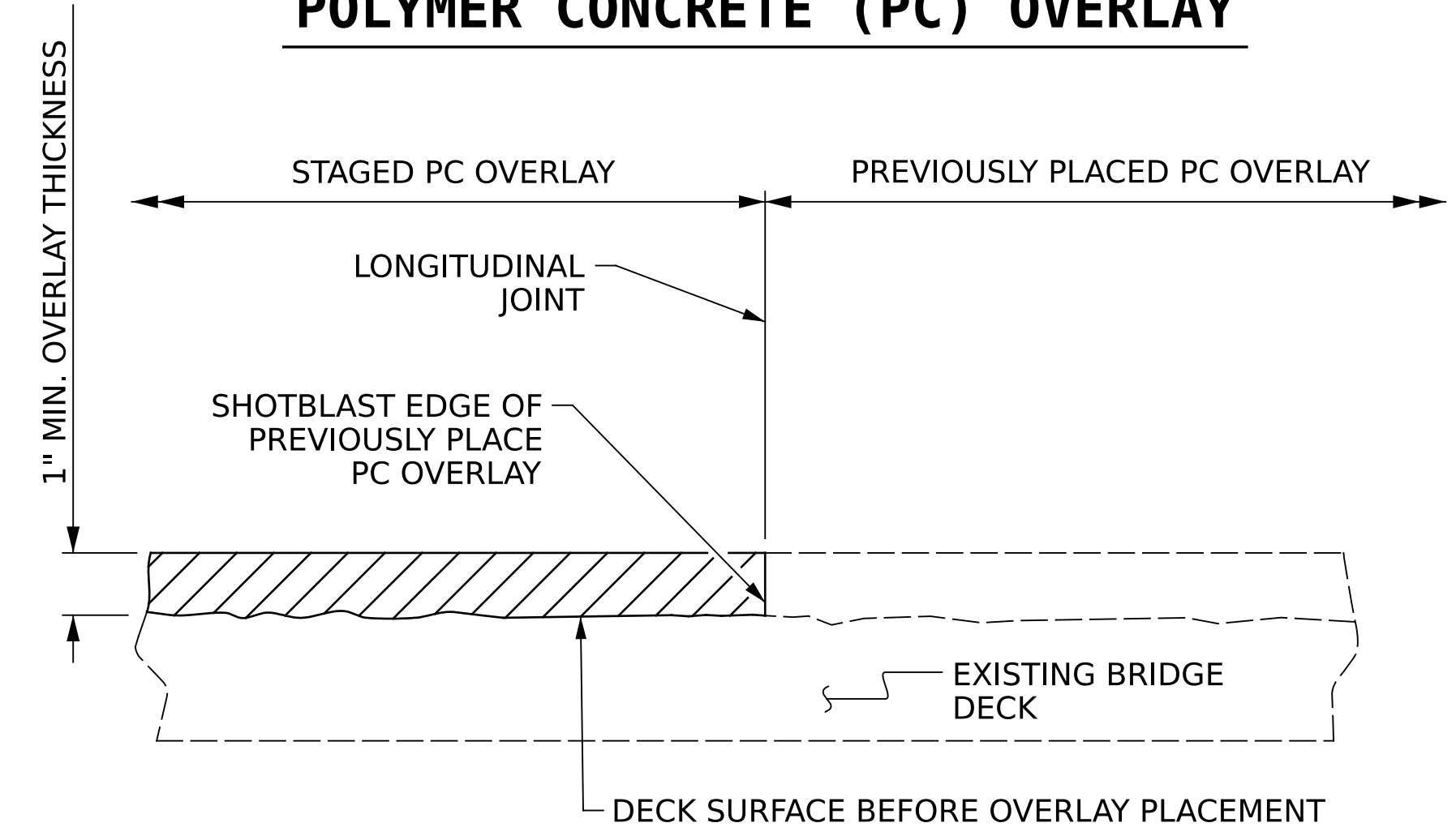
**HALF SECTION THRU SPANS A AND C**  
(SHOWING INTERMEDIATE DIAPHRAGMS)

**TYPICAL SECTION**  
(PROPOSED)

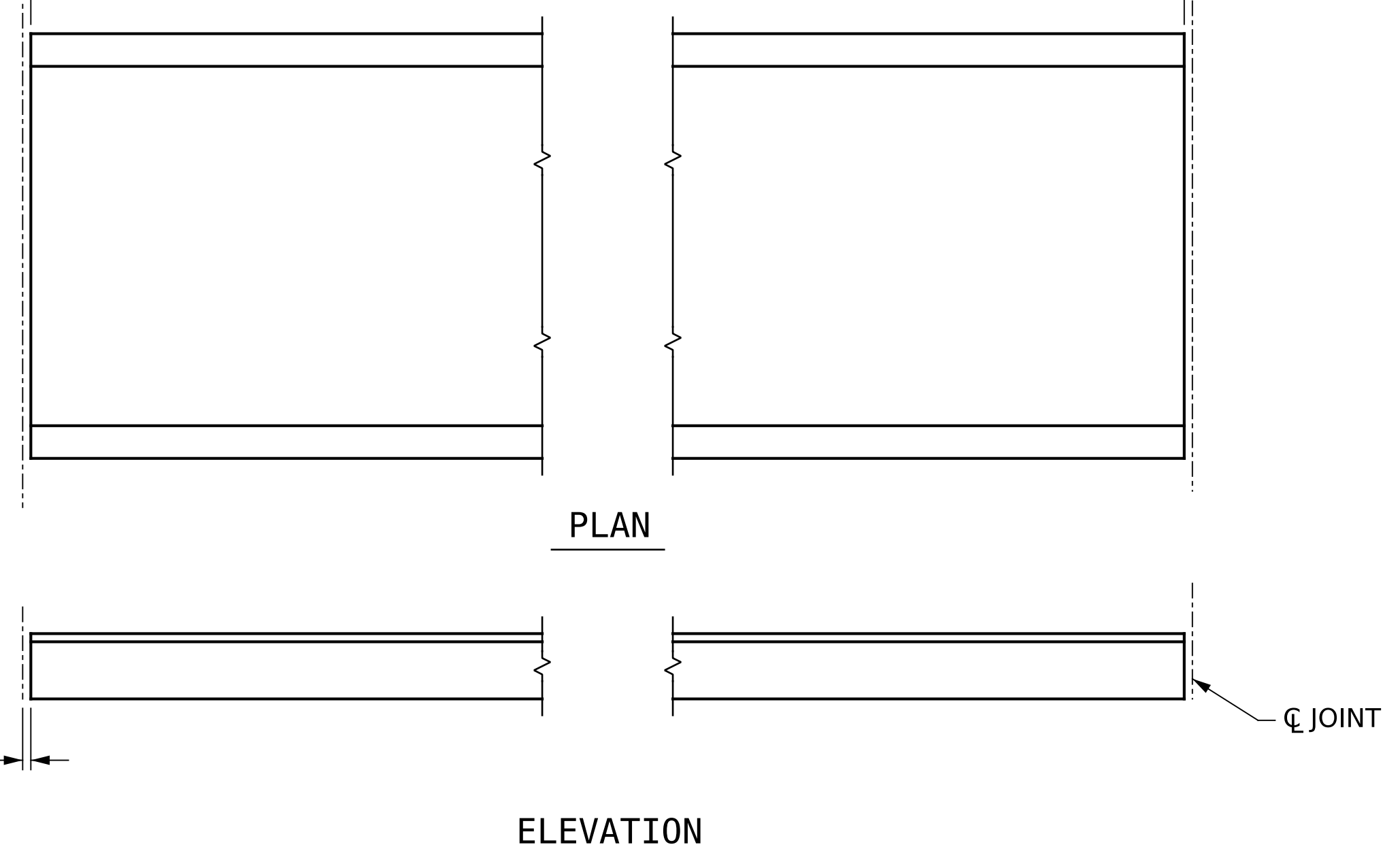
LIMITS OF SCARIFICATION, CONCRETE DECK REPAIR FOR PC OVERLAY, PC MATERIALS, PLACING AND FINISHING PC OVERLAY, CLASS II SURFACE PREPARATION, AND SHOTBLASTING BRIDGE DECK (SEE DECK REPAIR SHEETS)



**DETAIL FOR POLYMER CONCRETE (PC) OVERLAY**

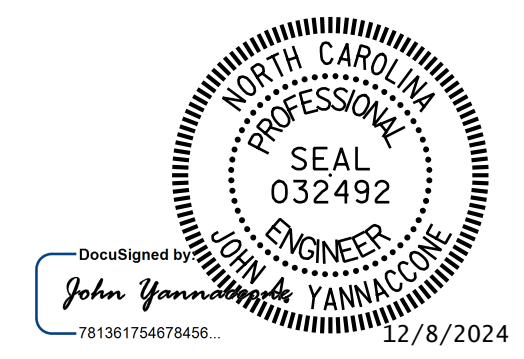


**STAGED PC OVERLAY CONSTRUCTION JOINT**



**PAY LIMITS FOR OVERLAY BID ITEMS**

PROJECT NO. **HI-0018**  
**COLUMBUS** COUNTY  
BRIDGE NO. **230381**



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

**TYPICAL SECTION AND SURFACE PREPARATION DETAILS**

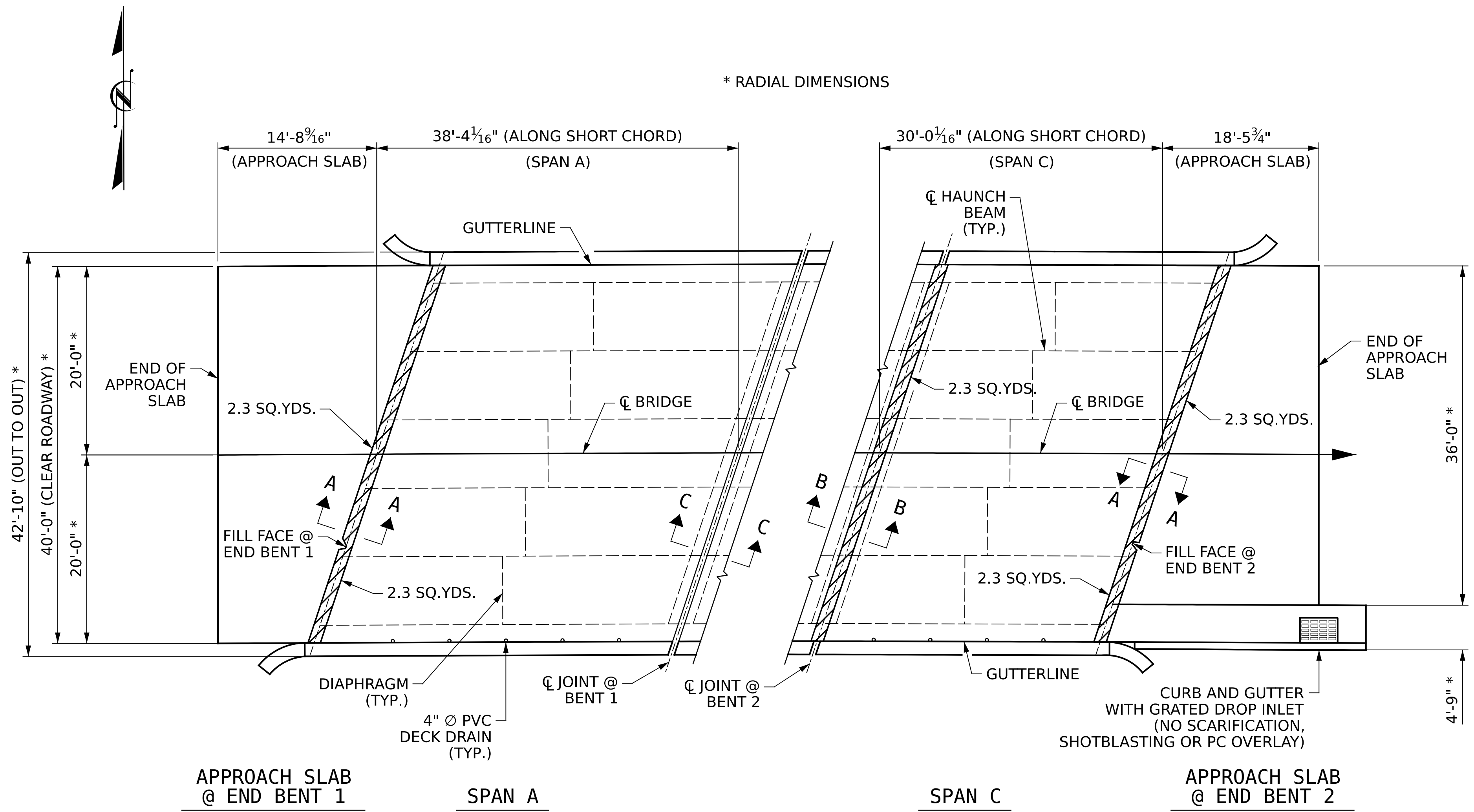
DRAWN BY: **R.L. PUTEK** DATE: **08/2024**  
CHECKED BY: **J.A. YANNACCONI** DATE: **08/2024**



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Raleigh, NC 27603  
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NC Lic. No. F-0270

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2			4			



PLAN

AS-BUILT QUANTITY REPAIR TABLE			
DECK SURFACE REPAIR & APPROACH SLAB REPAIR			
		ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	APPROACH SLAB @ END BENT 1	71.8 SQ. YDS.	
	SPAN A	168.7 SQ. YDS.	
	SPAN C	132.6 SQ. YDS.	
SHOTBLASTING BRIDGE DECK	APPROACH SLAB @ END BENT 2	61.2 SQ. YDS.	
	SPAN A	168.7 SQ. YDS.	
	SPAN C	132.6 SQ. YDS.	
CLASS II SURFACE PREPARATION	APPROACH SLAB @ END BENT 1	2.3 SQ. YDS.	
	SPAN A	2.3 SQ. YDS.	
	SPAN C	4.6 SQ. YDS.	
PC MATERIALS	APPROACH SLAB @ END BENT 2	2.1 SQ. YDS.	
	APPROACH SLAB @ END BENT 1	2.6 CU. YDS.	
	SPAN A	5.9 CU. YDS.	
PLACING AND FINISHING PC OVERLAY	SPAN C	4.6 CU. YDS.	
	APPROACH SLAB @ END BENT 2	2.2 CU. YDS.	
	APPROACH SLAB @ END BENT 1	71.8 SQ. YDS.	
GROOVING BRIDGE FLOORS	SPAN A	168.7 SQ. YDS.	
	SPAN C	132.6 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	61.2 SQ. YDS.	
GROOVING BRIDGE FLOORS	APPROACH SLAB @ END BENT 1	566 SQ. FT.	
	SPAN A	1372 SQ. FT.	
	SPAN C	1052 SQ. FT.	
	APPROACH SLAB @ END BENT 2	503 SQ. FT.	

NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED UPON SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING SCARIFICATION OF BRIDGE DECK, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.

CONCRETE COVER FOR TOP BARS IN DECK SLAB IS 1 1/2" PER EXISTING BRIDGE PLANS.

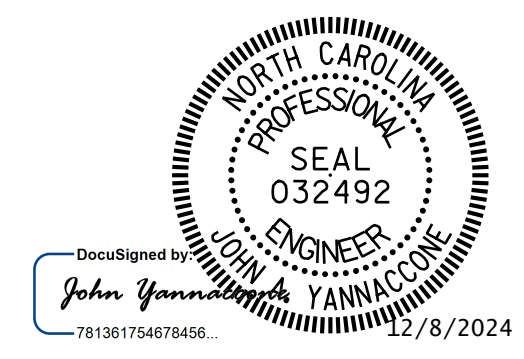
FOR SECTION A-A AND B-B, SEE "FOAM JOINT SEAL DETAILS" SHEET.

FOR SECTION C-C, SEE "EXPANSION JOINT SEAL DETAILS" SHEET.

AS-BUILT QUANTITY REPAIR TABLE					
DECK UNDERSIDE REPAIR					
SHOTCRETE REPAIRS		ESTIMATE		ACTUAL	
		AREA SF	VOLUME CF	AREA SF	VOLUME CF
UNDERSIDE OF DECK	SPAN A	0.0	0.0		
	SPAN C	0.0	0.0		
INTERIOR DIAPHRAGMS	SPAN A	0.0	0.0		
	SPAN C	0.0	0.0		
OVERHANG DIAPHRAGMS	SPAN A	0.0	0.0		
	SPAN C	0.0	0.0		
UNDERSIDE OF OVERHANG	SPAN A	0.0	0.0		
	SPAN C	0.0	0.0		
		ESTIMATE		ACTUAL	
UNDERSIDE EPOXY RESIN INJECTION	SPAN A		0.0 LIN.FT.		
	SPAN C		0.0 LIN.FT.		

- SCARIFICATION AND SHOTBLASTING OF BRIDGE DECK
- CLASS II SURFACE PREPARATION
- UNDERSIDE OF DECK SHOTCRETE REPAIRS

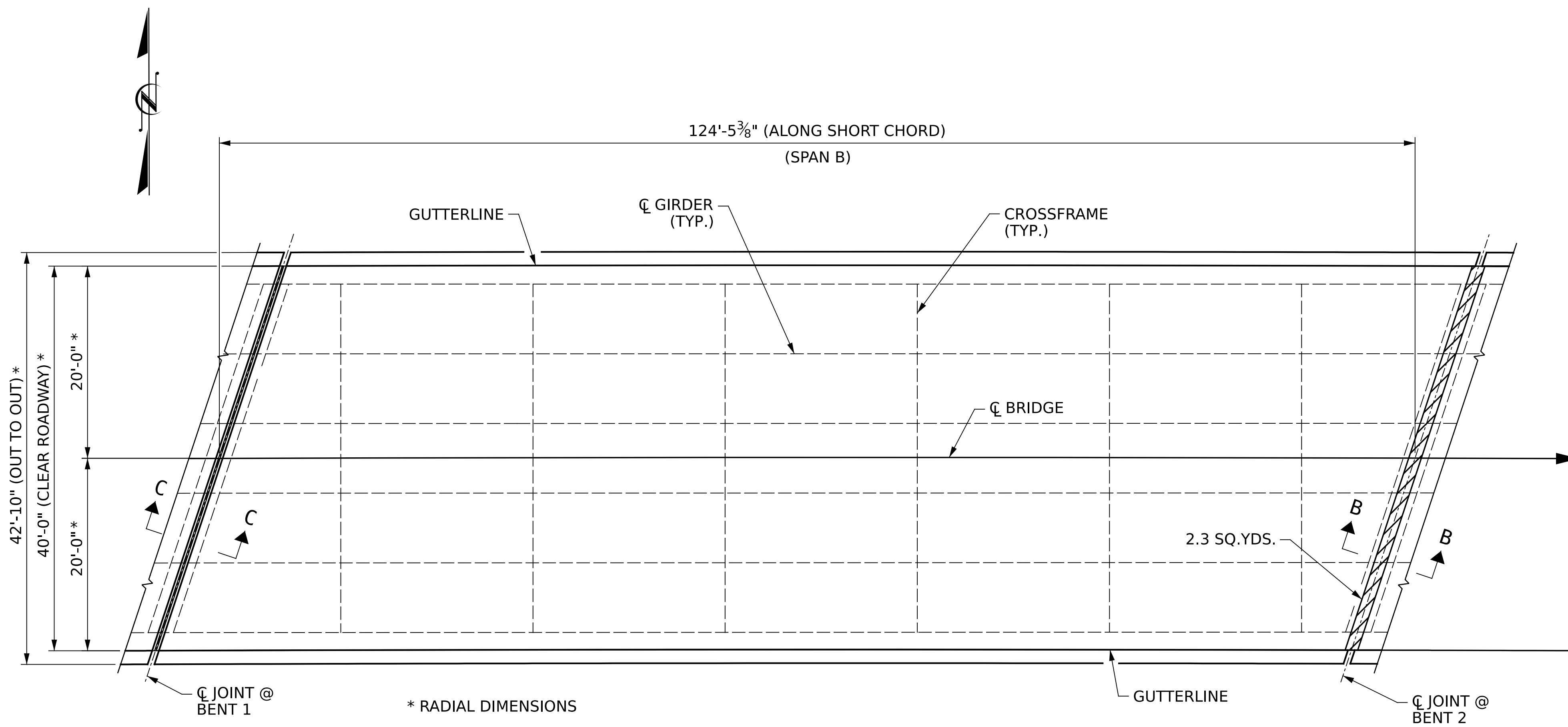
PROJECT NO. **HI-0018**  
**COLUMBUS** COUNTY  
 BRIDGE NO. **230381**  
 SHEET 1 OF 2



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**DECK REPAIRS**  
 SPAN A W/ APPROACH SLAB &  
 SPAN C W/ APPROACH SLAB





**SPAN B**  
**PLAN**

**NOTES**

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

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CONCRETE COVER FOR TOP BARS IN DECK SLAB IS 1 1/2" PER EXISTING BRIDGE PLANS.

FOR SECTION B-B, SEE "FOAM JOINT SEAL DETAILS" SHEET.

FOR SECTION C-C, SEE "EXPANSION JOINT SEAL DETAILS" SHEET.

**AS-BUILT QUANTITY REPAIR TABLE**

**DECK SURFACE REPAIR - SPAN B**



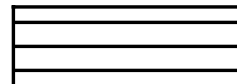
	ESTIMATE	ACTUAL
SCARIFIYING BRIDGE DECK	551.1 SQ. YDS.	
SHOTBLASTING BRIDGE DECK	551.1 SQ. YDS.	
CLASS II SURFACE PREPARATION	2.3 SQ. YDS.	
PC MATERIALS	19.1 CU. YDS.	
PLACING AND FINISHING PC OVERLAY	551.1 SQ. YDS.	
GROOVING BRIDGE FLOORS	4557 SQ. FT.	

**DECK UNDERSIDE REPAIR - SPAN B**

SHOTCRETE REPAIRS	ESTIMATE		ACTUAL	
	AREA SF	VOLUME CF	AREA SF	VOLUME CF
UNDERSIDE OF DECK	0.0	0.0		
INTERIOR DIAPHRAGMS	0.0	0.0		
OVERHANG DIAPHRAGMS	0.0	0.0		
UNDERSIDE OF OVERHANG	0.0	0.0		

	ESTIMATE	ACTUAL
UNDERSIDE EPOXY RESIN INJECTION	0.0 LIN. FT.	

-  SCARIFICATION AND SHOTBLASTING OF BRIDGE DECK
-  CLASS II SURFACE PREPARATION
-  UNDERSIDE OF DECK SHOTCRETE REPAIRS

PROJECT NO. **HI-0018**

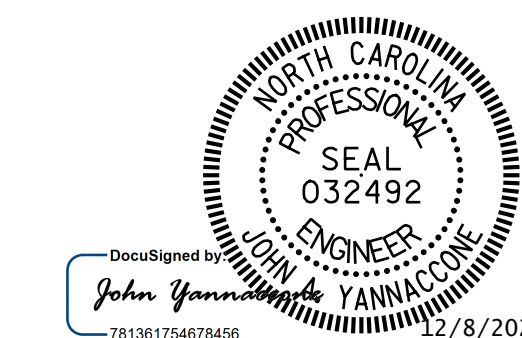
**COLUMBUS** COUNTY

BRIDGE NO. **230381**

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

**DECK REPAIRS**  
**SPAN B**



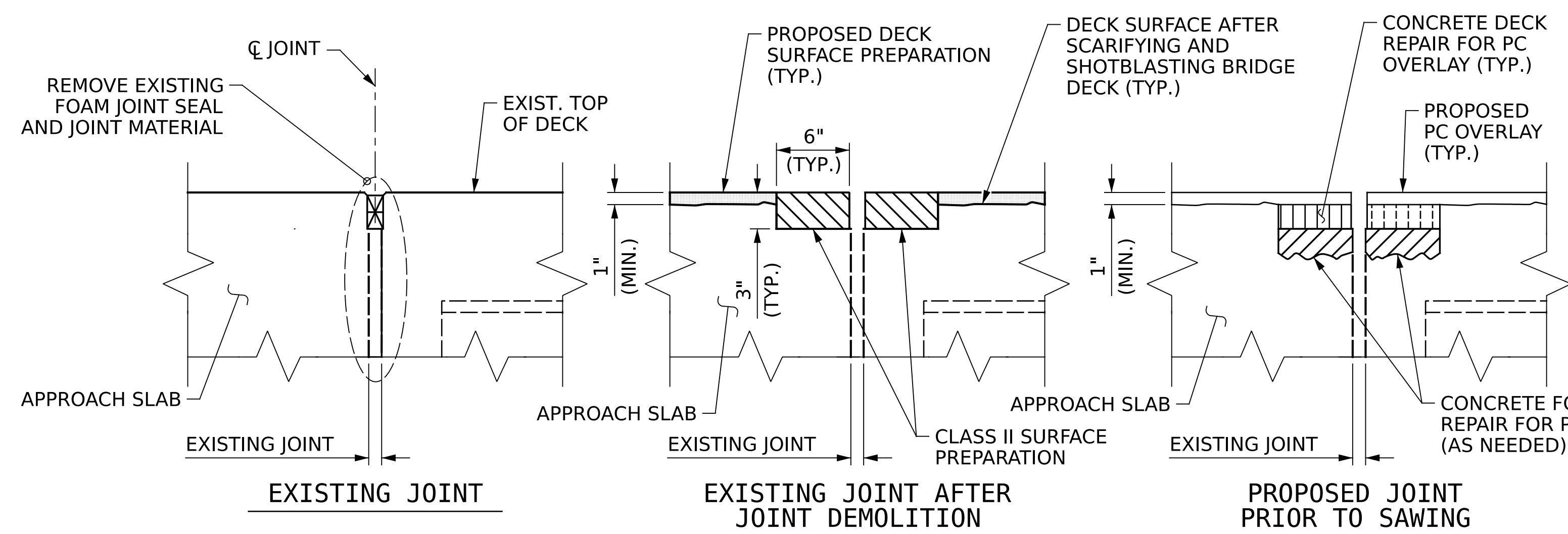
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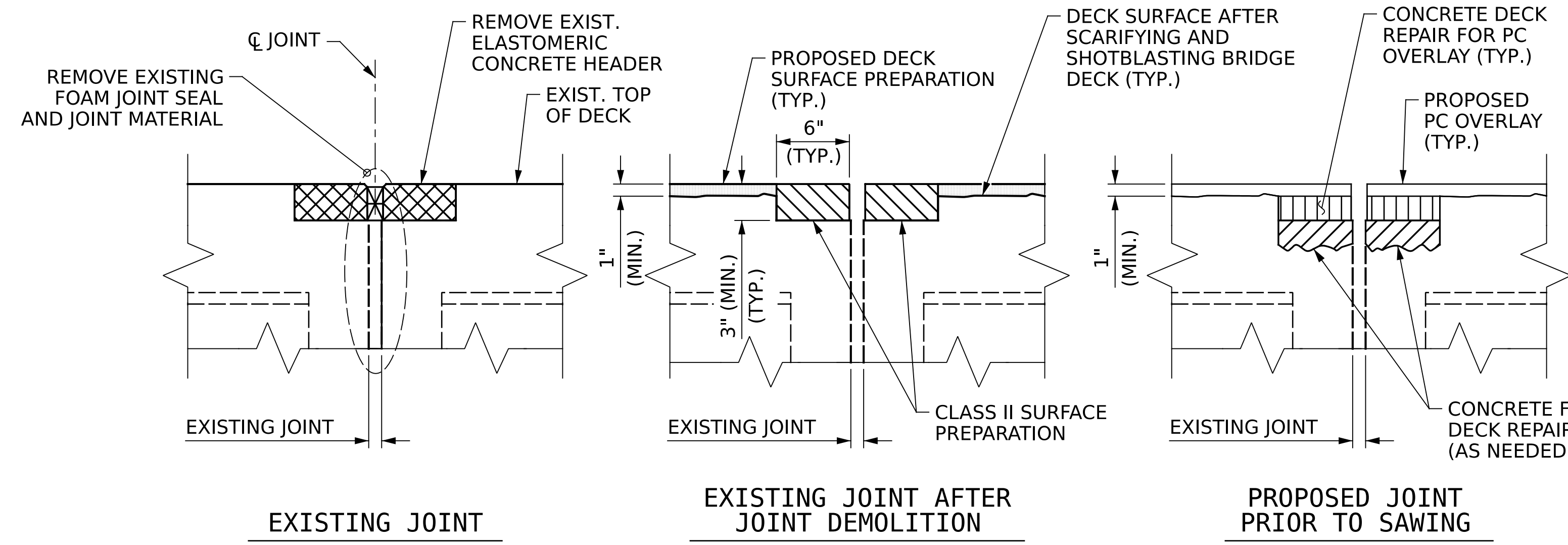
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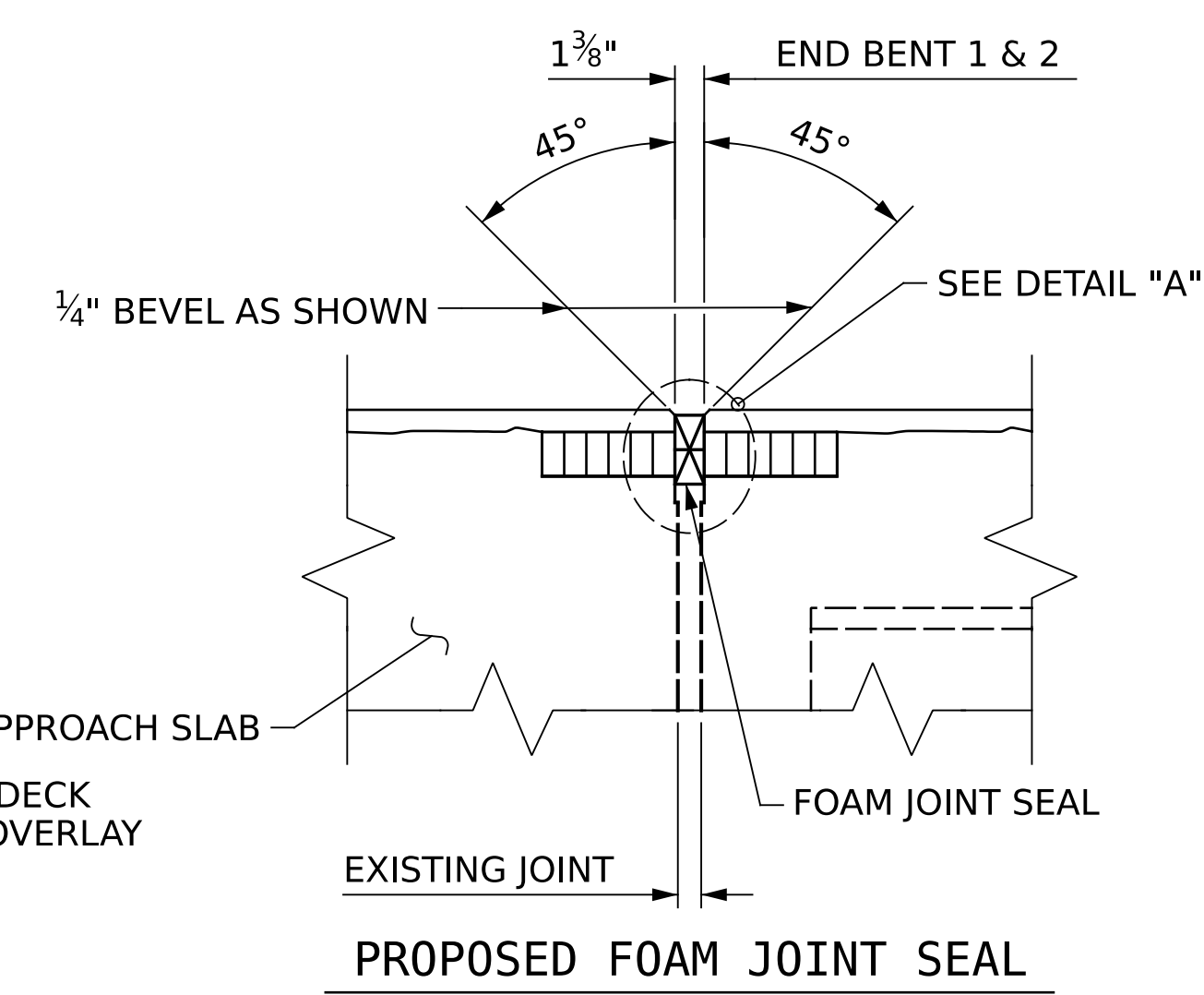




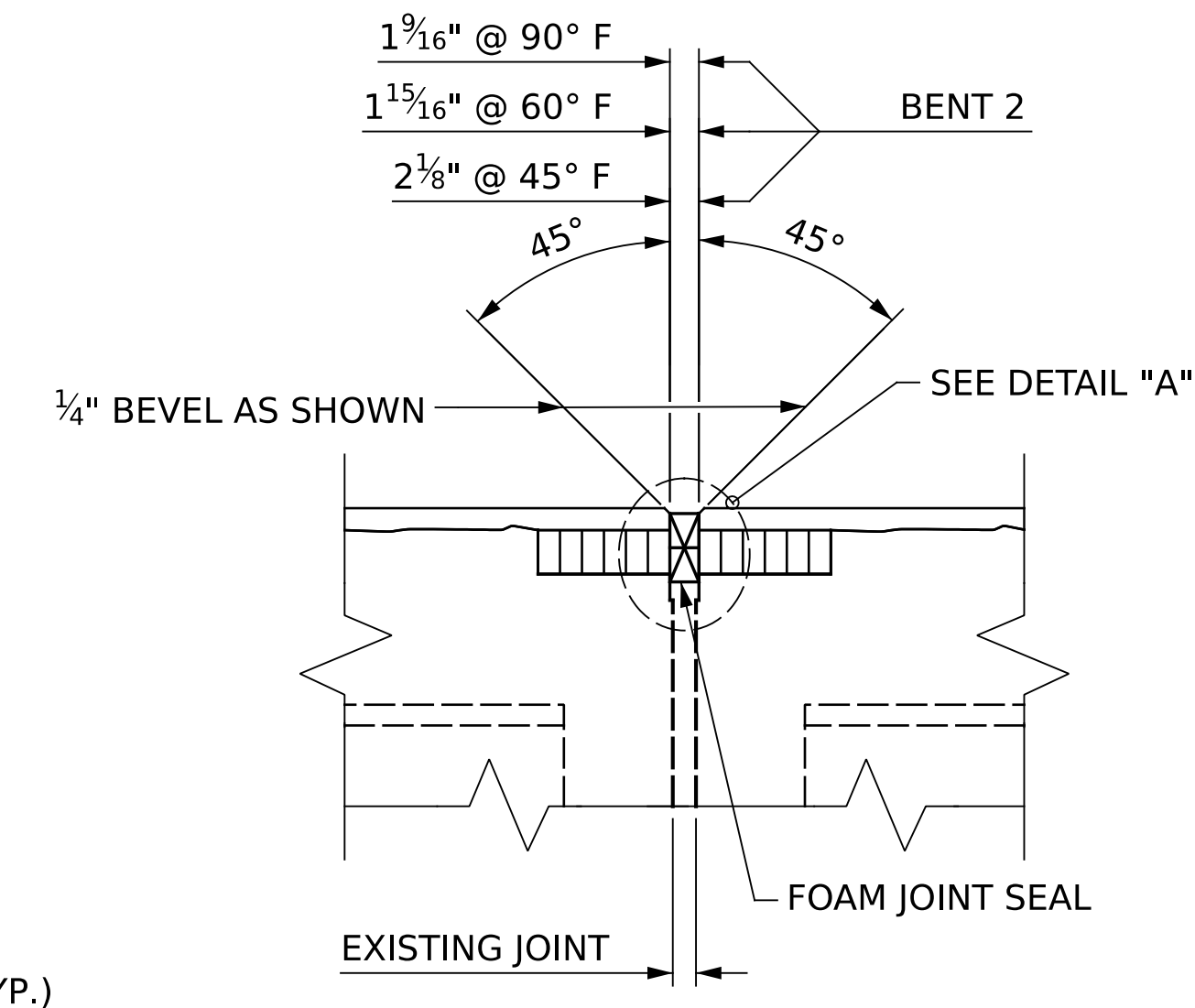
**SECTION A-A**



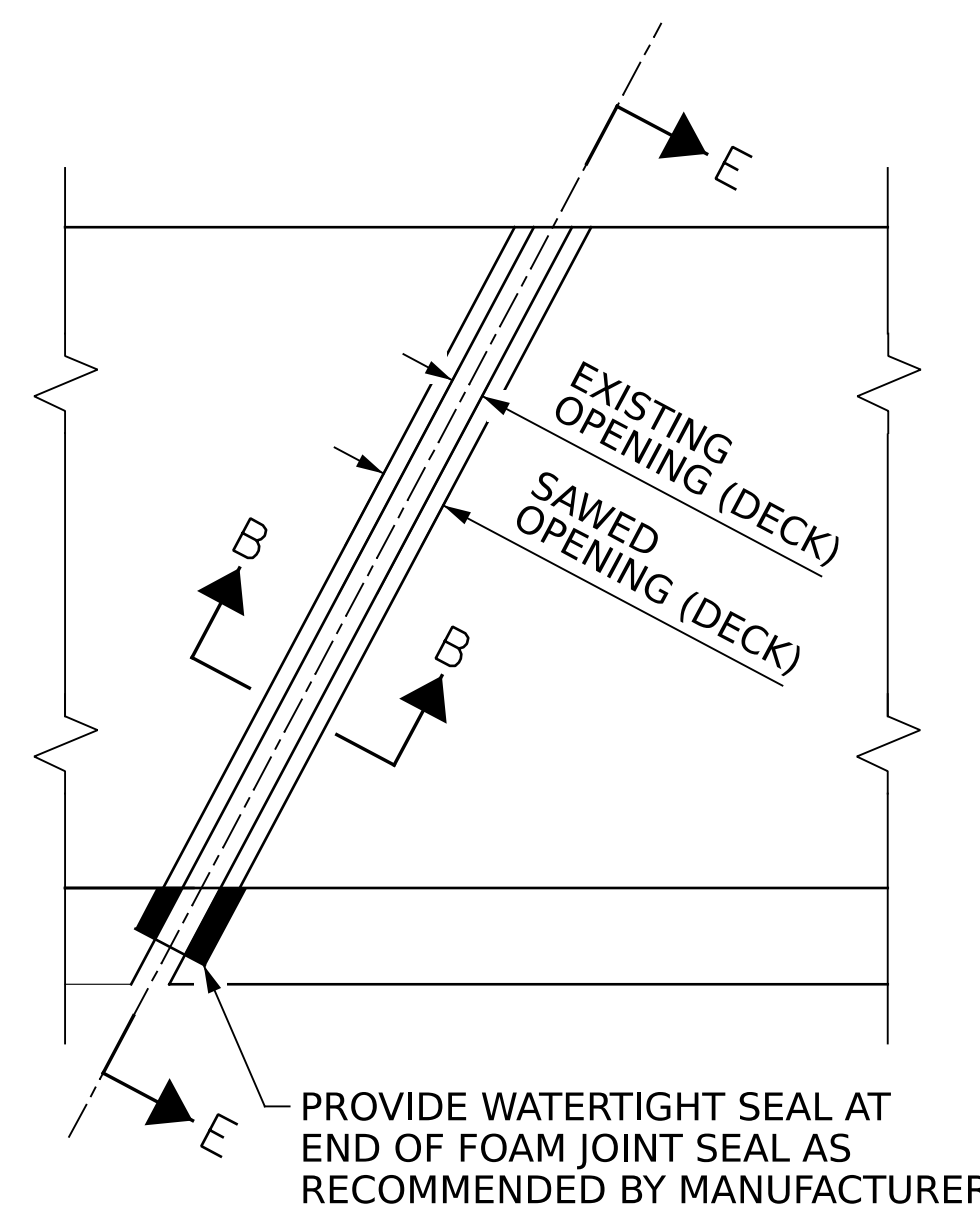
**SECTION B-B**



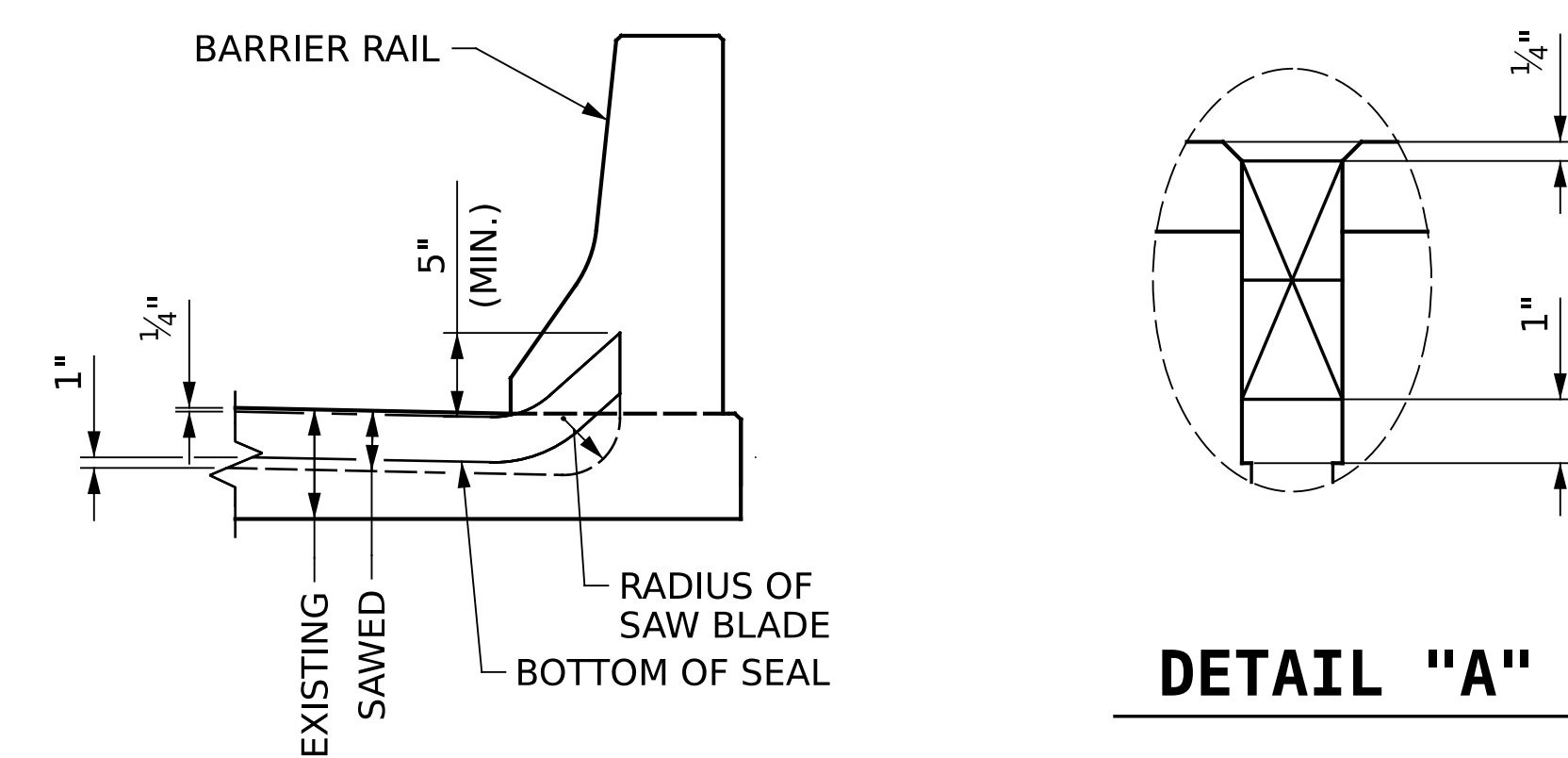
**PROPOSED FOAM JOINT SEAL**



**PROPOSED FOAM JOINT SEAL**

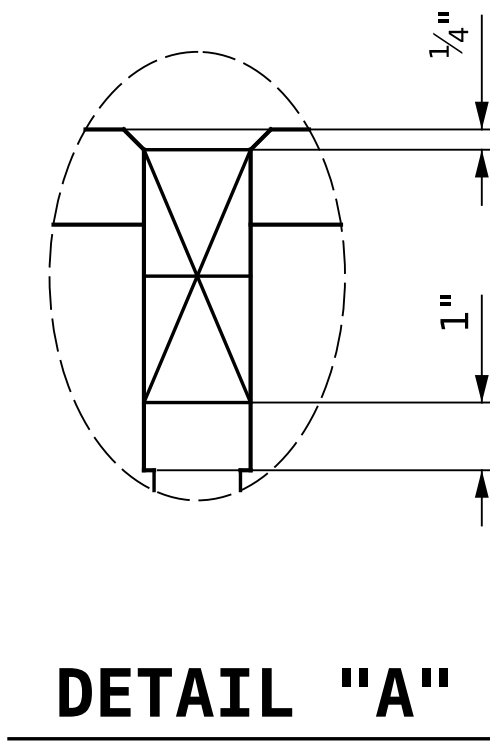


**PLAN**



**SECTION E-E**

FOAM JOINT SEAL SHALL BE FACTORY FORMED OR CUT, HEAT WELDED AND TURNED UP PARALLEL TO SLOPED FACE OF BARRIER RAIL.



**DETAIL "A"**

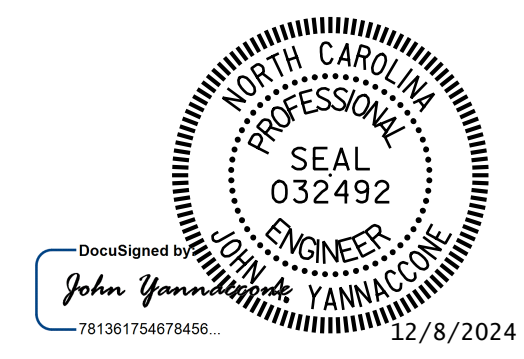
**AS-BUILT SUMMARY OF QUANTITIES**

ITEM	LOCATION	ESTIMATED	ACTUAL
FOAM JOINT SEALS FOR PRESERVATION	END BENT 1	42.5 LIN.FT.	
	BENT 2	43.0 LIN.FT.	
	END BENT 2	42.50 LIN.FT.	
CONCRETE DECK REPAIR FOR PC OVERLAY	END BENT 1	4.7 SQ.YDS.	
	BENT 2	4.7 SQ.YDS.	
	END BENT 2	4.7 SQ.YDS.	
EPOXY COATING	BENT 2	147 SQ.YDS.	

**NOTES:**

- FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE OVERLAY OR SEALANT WORK IS COMPLETE.
- THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING JOINT OPENING PRIOR TO ORDERING JOINT SEAL MATERIAL. IF THE ACTUAL JOINT OPENING VARIES FROM THE OPENING INDICATED IN THE DETAILS BY MORE THAN 1/4", NOTIFY THE ENGINEER.
- THE MANUFACTURER IS TO PROVIDE THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE FOAM JOINT SEAL FOR THE SIZE OF THE OPENING ON THE PLANS AND ACCOMMODATE THE MINIMUM EXPANSION SHOWN ON THE PLANS.
- FOAM JOINTS SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL TAKE CARE DURING JOINT REHAB OPERATIONS NOT TO DROP ANY MATERIAL BELOW THE BRIDGE WITHOUT PROTECTIVE DEVICES BELOW TO CATCH THE MATERIAL. ANY MATERIAL THAT FALLS BELOW THE BRIDGE SHALL BE CONTAINED, REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO EXTRA COST TO THE DEPARTMENT. IF THE ENGINEER DETERMINES THAT THE PROTECTIVE DEVICES ARE NOT ADEQUATE OR NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
- THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT IN LIEU OF SAWING THE JOINT.
- THE INSTALLED FOAM JOINTS SHALL BE WATERTIGHT.
- THE CONTRACTOR SHALL SAW CUT TO A NOMINAL DEPTH OF 1/2" BUT REINFORCING STEEL SHALL NOT BE DAMAGED. CONTRACTOR SHALL REMOVE SURFACE CONCRETE TO VERIFY THAT SAWCUT DEPTH WILL NOT DAMAGE EXISTING REINFORCING STEEL.
- FOR EXCAVATION BELOW THE BOTTOM OF PLANNED CLASS II SURFACE PREPARATION CONCRETE FOR DECK REPAIR FOR PC OVERLAY SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED PC OVERLAY.
- FOR CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.
- FOR CONCRETE DECK REPAIR FOR PC OVERLAY, SEE POLYMER CONCRETE BRIDGE DECK OVERLAY SPECIAL PROVISION.
- FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.
- ALL EXISTING ELASTOMERIC CONCRETE SHALL BE REMOVED. THE DEPTH SHOWN IN THE DETAILS FOR CLASS II SURFACE PREPARATION AT THE EXISTING JOINT AT BENT 2 IS THE MINIMUM DEPTH REQUIRED.

PROJECT NO. **HI-0018**  
**COLUMBUS** COUNTY  
 BRIDGE NO. **230381**



STATE OF NORTH CAROLINA  
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**FOAM JOINT SEAL  
 DETAILS**

DRAWN BY: **R.L.PUTEK** DATE: **08/2024**  
 CHECKED BY: **J.A.YANNACCONI** DATE: **08/2024**



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TOTAL SHEETS: **79**



### REPAIR INSTALLATION PROCEDURE

LOOSEN THE EXISTING BOLTS AND HOLD-DOWN PLATES TO REMOVE AND REPLACE THE EXISTING GLAND. REMOVE THE EXISTING NEOPRENE SEALANT AND CLEAN THE EXISTING BASE ANGLE OF OIL, GREASE AND OTHER LATENTS.

LAY THE NEW GLAND ON THE BASE ANGLE AND FIELD MARK THE NEW GLAND FOR THE BOLT HOLES. HOLES IN THE NEW GLAND SHALL BE PUNCHED  $\frac{7}{8}$ " IN DIAMETER WITH A HAND PUNCH.

IN ORDER TO CHECK FOR PROPER ALIGNMENT, PLACE THE NEW GLAND HOLD-DOWN PLATES ON THE BASE ANGLE. DO NOT APPLY NEW NEOPRENE SEALANT. BOLT THE HOLD-DOWN PLATES TO THE BASE ANGLE, BUT DO NOT TIGHTEN. THE ENGINEER WILL INSPECT THE JOINT SEAL DEVICE FOR PROPER ALIGNMENT.

AFTER INSPECTION, REMOVE THE HOLD-DOWN PLATES AND NEW GLAND. APPLY NEW NEOPRENE SEALANT TO THE BASE ANGLE IN ACCORDANCE WITH THE "INSTALLATION SKETCH". PLACE NEW GLAND AND HOLD-DOWN PLATES ON THE BASE ANGLE. BOLT THE HOLD-DOWN PLATES TO THE BASE ANGLE ASSEMBLY AND TORQUE THE BOLTS TO 88 FT-LBS WITH A TORQUE WRENCH. CHECK THE TORQUE AFTER THREE (3) HOURS AND, IF NECESSARY, RETIGHTEN TO 88 FT-LBS. A FINAL CHECK SHALL BE MADE AT SEVEN (7) DAYS. TORQUE SHALL NOT BE LESS THAN 80 FT-LBS AFTER SEVEN (7) DAYS.

AFTER PROPER TORQUING, CLEAN THE BOLT HOLE RECESSES AND THE RECESS BETWEEN THE JOINT SEAL DEVICE AND CONCRETE. COMPLETELY FILL THESE RECESSES WITH NEW NEOPRENE SEALANT.

### GENERAL NOTES

ALL HOLD-DOWN BOLTS SHALL CONFORM TO ASTM F593 ALLOY 304 STAINLESS STEEL AND WASHERS SHALL CONFORM TO ASTM F844 EXCEPT THEY SHALL BE MADE FROM ALLOY 304 STAINLESS STEEL.

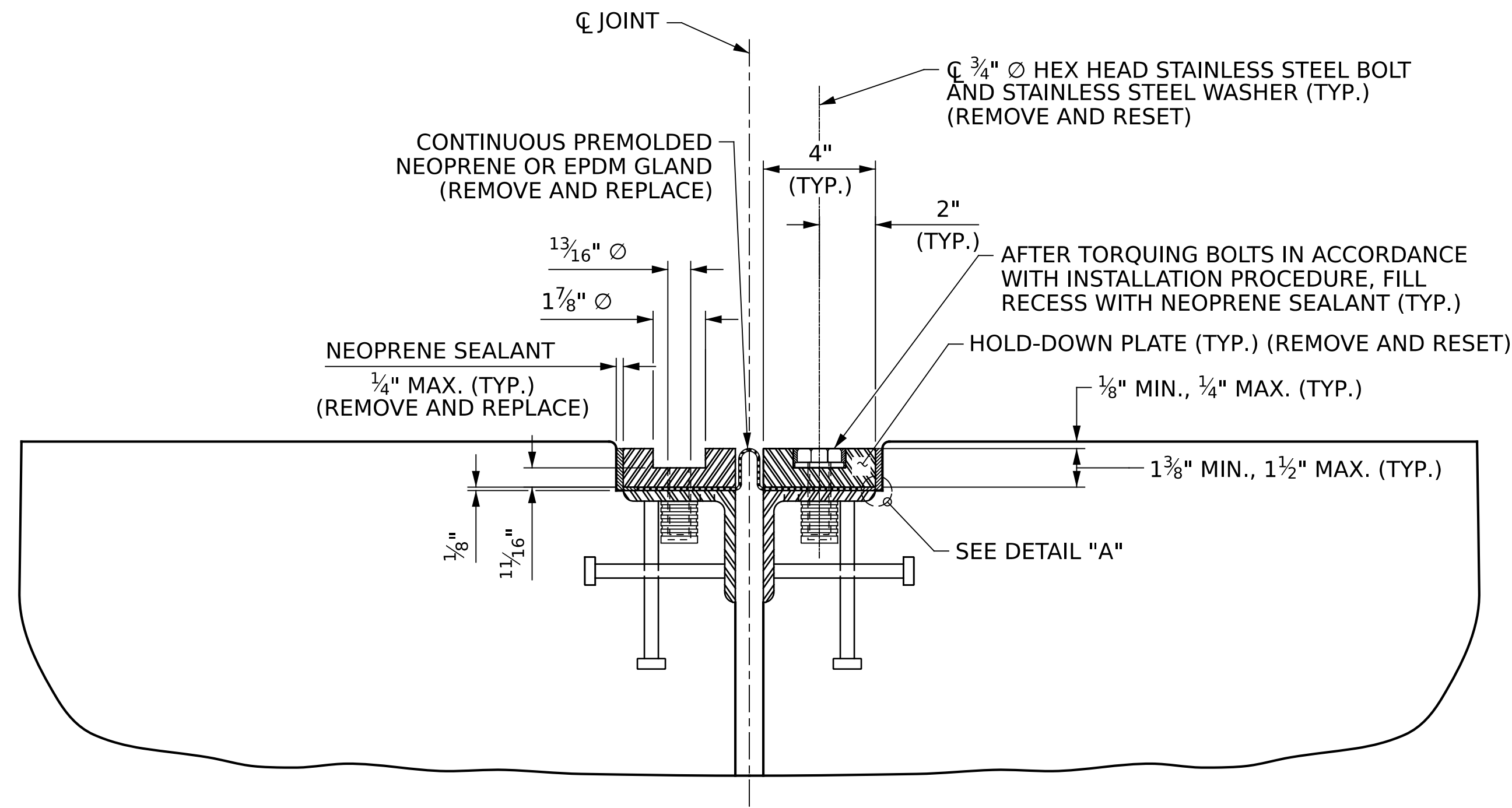
A PREMOLDED CORRUGATED OR NON-CORRUGATED GLAND SHALL BE USED FOR JOINTS SKEWED BETWEEN 50° THRU 130°. FOR JOINTS SKEWED LESS THAN 50° OR MORE THAN 130°, ONLY A CORRUGATED GLAND SHALL BE USED.

THE FINISHED EXPANSION SEAL DEVICE SHALL BE A MINIMUM OF  $\frac{1}{8}$ " AND A MAXIMUM OF  $\frac{1}{4}$ " BELOW THE TOP OF SLAB.

FOR EXPANSION JOINT SEAL REPAIR, SEE SPECIAL PROVISIONS.

NO SEPARATE PAYMENT WILL BE MADE FOR REMOVING AND REINSTALLING MEDIAN AND BARRIER RAIL COVER PLATES. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "EXPANSION JOINT SEAL REPAIR".

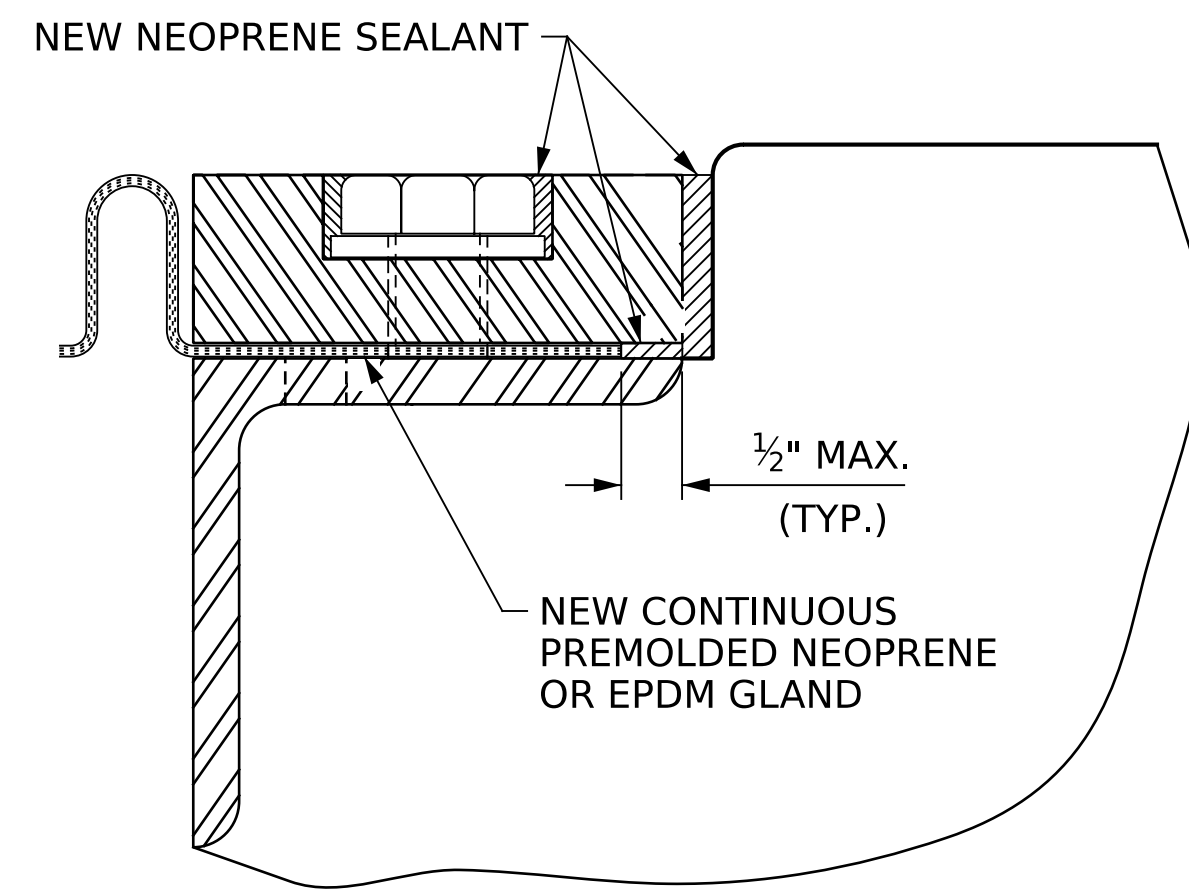
CLEAN AND REMOVE DEBRIS FROM THE TOP OF THE BENT CAPS AND APPLY EPOXY PROTECTIVE COATING. EPOXY COATING SHALL BE APPLIED TO THE TOP SURFACE OF THE CAPS. THE CONTRACTOR SHALL NOT COAT THE AREA OF THE CAPS BENEATH THE ELASTOMERIC BEARINGS. FOR EPOXY COATING, SEE SPECIAL PROVISIONS.



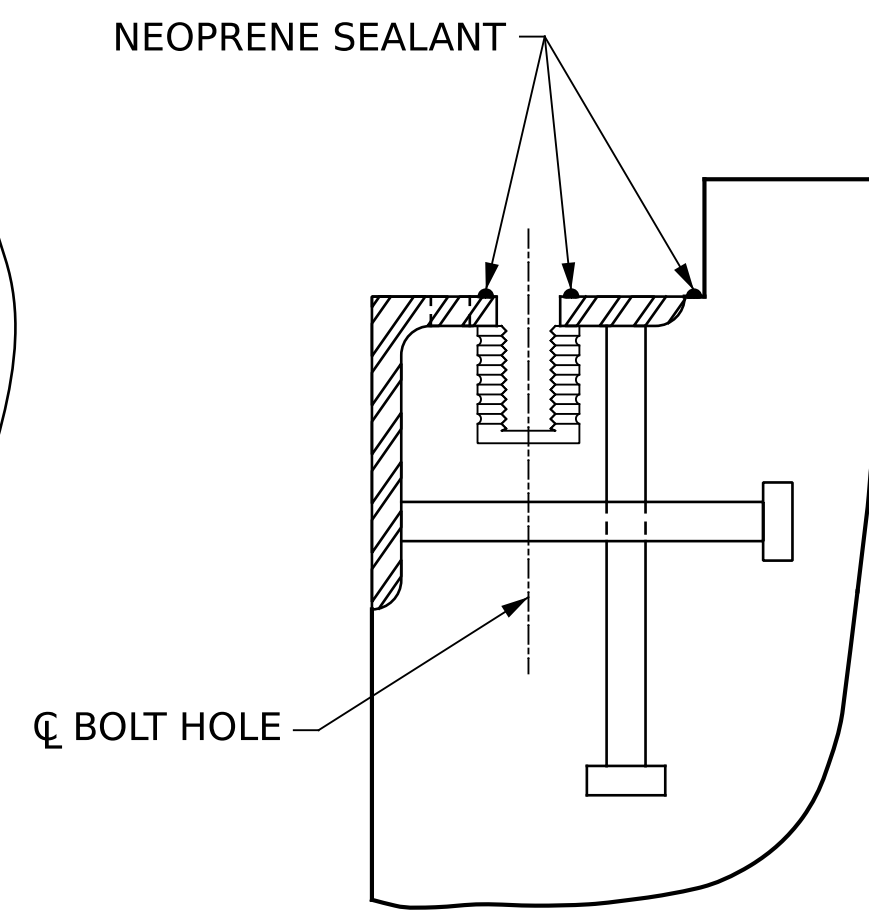
### SECTION C-C

SECTION NORMAL TO JOINT -- SEE DECK REPAIR SHEETS

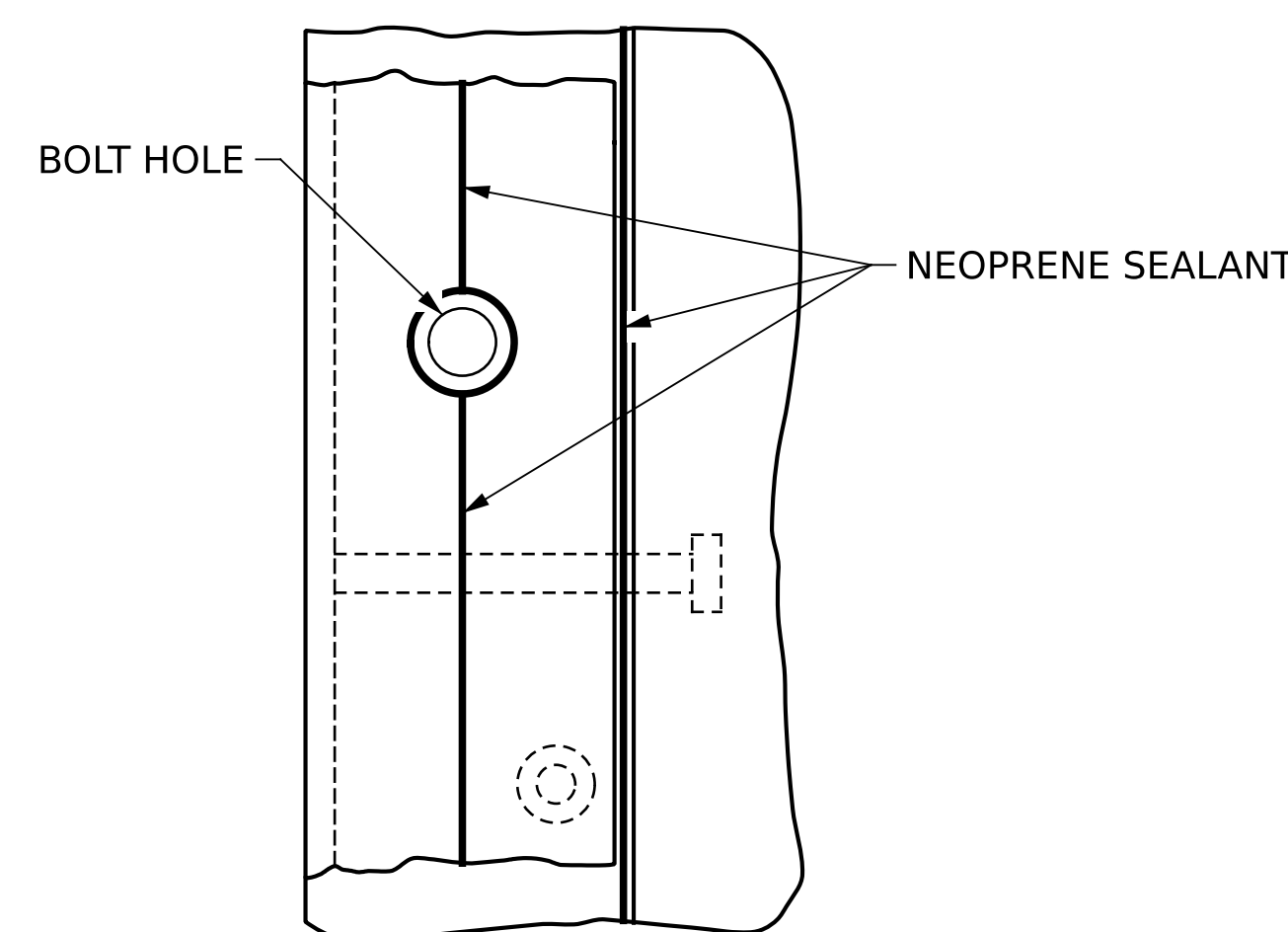
MOVEMENT AND SETTING OF JOINT					
LOCATION	SKEW ANGLE	TOTAL MOVEMENT (ALONG $\bar{C}$ BRIDGE)	PERPENDICULAR JOINT OPENING AT 45° F	PERPENDICULAR JOINT OPENING AT 60° F	PERPENDICULAR JOINT OPENING AT 90° F
BENT 1	108°-11'-07.4"	$\frac{5}{16}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{16}$ "	1"



DETAIL "A"



CROSS-SECTION



CROSS-SECTION

### INSTALLATION SKETCH

### AS-BUILT SUMMARY OF QUANTITIES

LOCATION	EXPANSION JOINT SEAL REPAIRS		EPOXY COATING	
	ESTIMATE (LIN.FT.)	ACTUAL (LIN.FT.)	ESTIMATE (SQ.FT.)	ACTUAL (SQ.FT.)
BENT 1	43.5		147	

PROJECT NO. **HI-0018**  
**COLUMBUS** COUNTY  
 BRIDGE NO. **230381**



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

## EXPANSION JOINT SEAL DETAILS

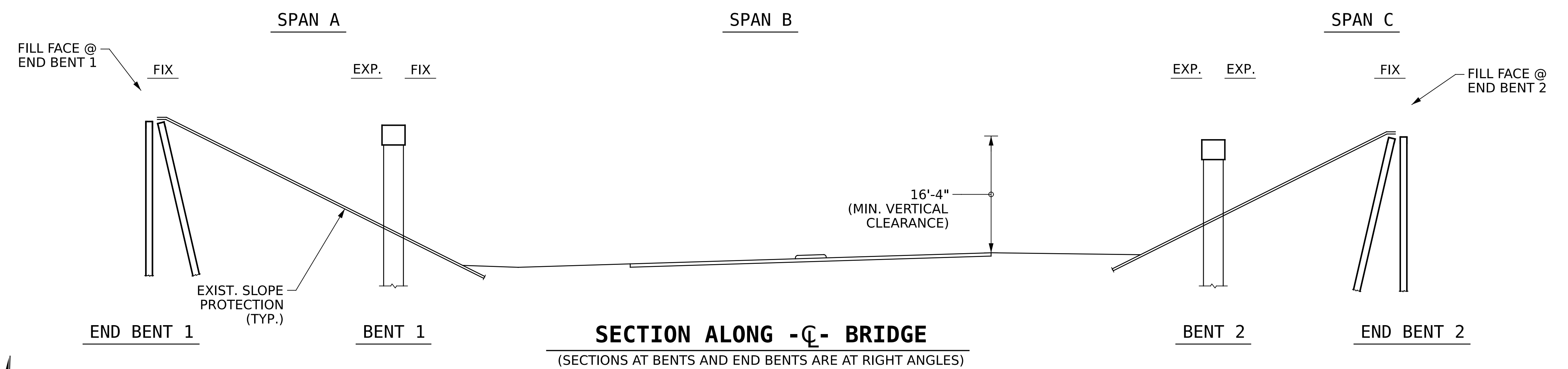
DRAWN BY: **R.L.PUTEK** DATE: **08/2024**  
 CHECKED BY: **J.A.YANNACONE** DATE: **08/2024**



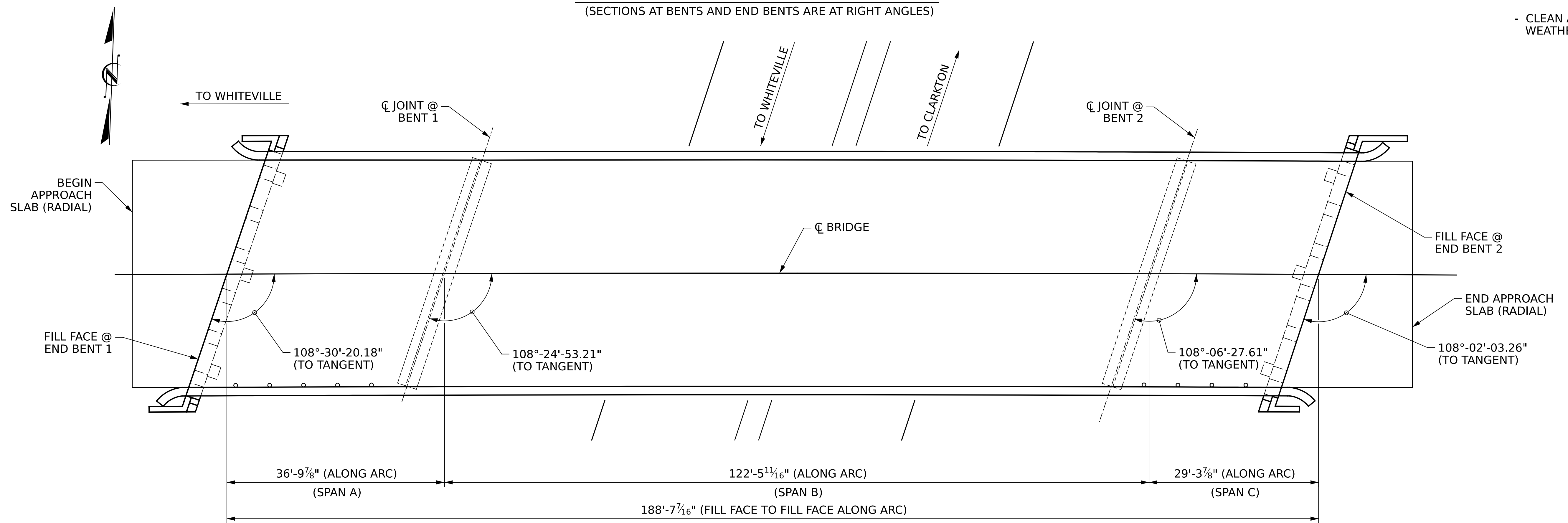
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			79
2			4			





**SECTION ALONG -CL- BRIDGE**  
(SECTIONS AT BENTS AND END BENTS ARE AT RIGHT ANGLES)



**PLAN**  
(FOOTINGS AND PILES NOT SHOWN FOR CLARITY)

**NOTES:**

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 09/26/2023.

BRIDGE ORIENTATION CONFORMS TO THE EXISTING BRIDGE PLANS AND ROUTINE INSPECTION REPORT.

**SCOPE OF WORK:**

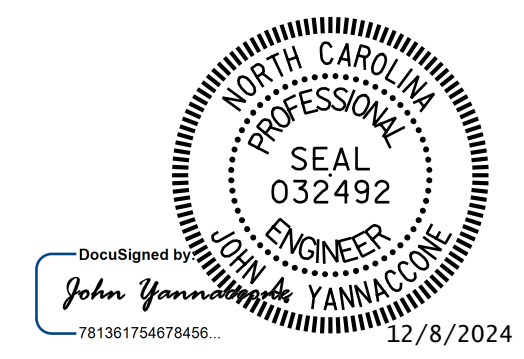
- PARTIALLY REMOVE TOP OF BRIDGE DECK CONCRETE BY SCARIFICATION AND SHOTBLASTING METHODS.
- OVERLAY PREPARED TOP OF BRIDGE DECK WITH POLYMER CONCRETE (PC).
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS.
- REPLACE EXISTING JOINT GLAND OF EXPANSION JOINT SEALS.
- GROOVE PC BRIDGE DECK.
- CLEAN AND PAINT EXISTING STRUCTURAL WEATHERING STEEL BEAMS.

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SHEET 1 OF 2

STATE OF NORTH CAROLINA  
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RALEIGH

**GENERAL DRAWING**  
FOR BRIDGE ON  
US 74 - US 76 BYP WBL  
OVER SR 1700 (RED HILL ROAD)



I HEREBY CERTIFY THAT THIS STRUCTURE WAS REHABILITATED ACCORDING TO THESE PLANS OR AS NOTED HEREIN.

RESIDENT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



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REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	DATE:	TOTAL SHEETS
1			3		79
2			4		

DRAWN BY: R.L.PUTEK DATE: 08/2024  
CHECKED BY: J.A.YANNACCONNE DATE: 08/2024