

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# COLUMBUS COUNTY

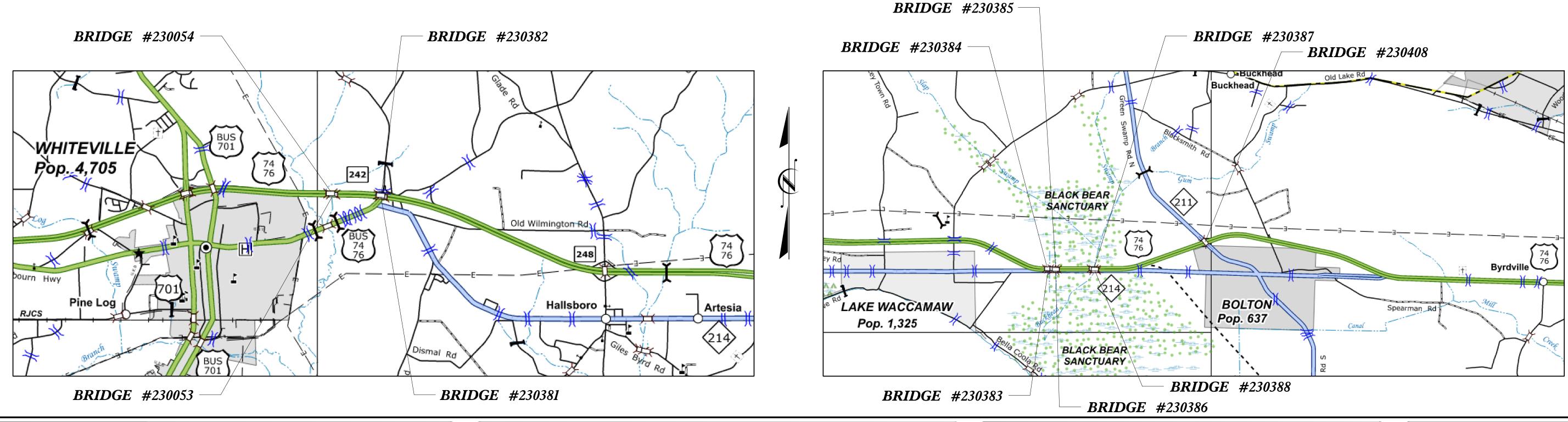
N.C.	HI-0018	1 1		
		1	19	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION		
49989.1.1	0074(247)	P.E.		
49989.3.1	0074(247)	CONST.		

#### **LOCATION:**

BRIDGE #230053 ON US 74 / US 76 EBL OVER WHITE MARSH SWAMP
BRIDGE #230054 ON US 74 / US 76 WBL OVER WHITE MARSH SWAMP
BRIDGE #230381 ON US 74 / US 76 EBL OVER SR 1700 (RED HILL ROAD)
BRIDGE #230382 ON US 74 / US 76 WBL OVER SR 1700 (RED HILL ROAD)
BRIDGE #230383 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230384 ON US 74 / US 76 WBL OVER FRIAR SWAMP

BRIDGE #230385 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230386 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230387 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230388 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230408 ON NC 211 (GREEN SWAMP ROAD) OVER US 74 / US 76

TYPE OF WORK: BRIDGE REHABILITATION – DECK SURFACE PREPARATION AND POLYMER CONCRETE OVERLAY, SCARIFICATION OF ASPHALT WEARING SURFACE, DECK REPAIRS, POLYMER CONCRETE OVERLAY, SILANE DECK TREATMENT, JOINT REPAIRS, PAINTING EXISTING STRUCTURE, PAINTING EXISTING WEATHERING STEEL STRUCTURE, SUBSTRUCTURE REPAIR, CONCRETE PILE ENCAPSULATION, EPOXY COATING BENT CAPS



# **DESIGN DATA**COLUMBUS COUNTY

#230053 ADT 2021 = 16,500 #230385 ADT 2019 = 7,750 #230054 ADT 2021 = 16,500 #230386 ADT 2021 = 15,000 #230382 ADT 2021 = 16,500 #230388 ADT 2021 = 15,000 #230383 ADT 2021 = 16,500 #230384 ADT 2019 = 7,750

# PROJECT LENGTH COLUMBUS COUNTY

#230053 = 0.04 MILE #230385 = 0.04 MILE #230054 = 0.04 MILE #230386 = 0.04 MILE #230381 = 0.04 MILE #230387 = 0.03 MILE #230382 = 0.04 MILE #230388 = 0.03 MILE #230383 = 0.02 MILE #230408 = 0.04 MILE #230384 = 0.02 MILE



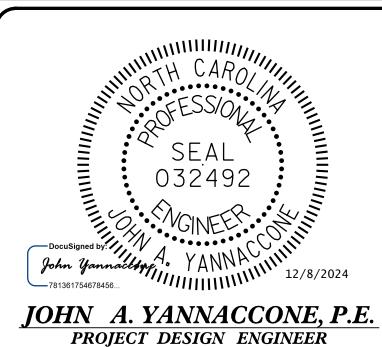
One Glenwood Avenue Suite 900 Raleigh,NC 27603 919-420-7660 NC Lic.No.F-0270

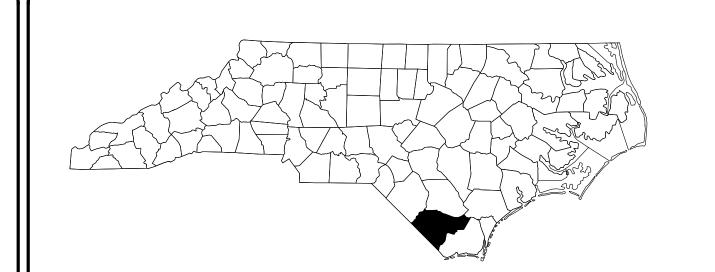
TIMOTHY M. SHERRILL, P.E.

NCDOT PROJECT ENGINEER

2024 STANDARD SPECIFICATIONS

*LETTING DATE:* FEBRUARY 18, 2025





# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# COLUMBUS COUNTY

STATE	STA	SHEET NO.	TOTAL SHEETS			
N.C.		HI-0018	1A	79		
STAT	B PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	TION		
49	989.1.1	0074(247)	P.E	•		
499	989.3.1	0074(247)	CON	CONST.		

#### **LOCATION:**

*S4-06* 

*S4–07* 

BRIDGE #230053 ON US 74 / US 76 EBL OVER WHITE MARSH SWAMP
BRIDGE #230054 ON US 74 / US 76 WBL OVER WHITE MARSH SWAMP
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BRIDGE #230383 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230384 ON US 74 / US 76 WBL OVER FRIAR SWAMP

FOAM JOINT SEAL DETAILS

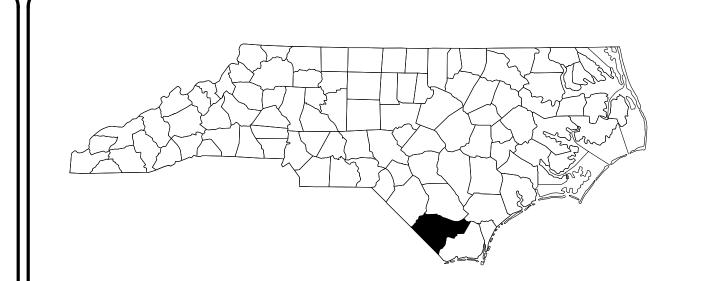
EXPANSION JOINT SEAL DETAILS

BRIDGE #230385 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230386 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230387 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230388 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230408 ON NC 211 (GREEN SWAMP ROAD) OVER US 74 / US 76

TYPE OF WORK: BRIDGE REHABILITATION – DECK SURFACE PREPARATION AND POLYMER CONCRETE OVERLAY, SCARIFICATION OF
ASPHALT WEARING SURFACE, DECK REPAIRS, POLYMER CONCRETE OVERLAY, SILANE
DECK TREATMENT, JOINT REPAIRS, PAINTING EXISTING STRUCTURE, PAINTING
EXISTING WEATHERING STEEL STRUCTURE, SUBSTRUCTURE REPAIR, CONCRETE PILE
ENCAPSULATION, EPOXY COATING BENT CAPS

### INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1	TITLE SHEET		
1A TO 1B	INDEX OF DRAWINGS		BRIDGE NO. 230383
S-1	TOTAL BILL OF MATERIAL	S5-01 TO S5-02	GENERAL DRAWINGS
	BRIDGE NO. 230053	S5-03 S5-04	TYPICAL SECTION SURFACE PREPARATION DETAILS DECK REPAIRS
S1-01 TO S1-02	GENERAL DRAWINGS	S5-05	ASPHALT PLUG JOINT DETAILS
<i>S1–03</i>	TYPICAL SECTION SURFACE PREPARATION DETAILS	S5-06	SUBSTRUCTURE REPAIR
S1-04 TO S1-05	DECK REPAIRS		DDIDGE NO 220204
<i>S1–06</i>	FOAM JOINT SEAL DETAILS		BRIDGE NO. 230384
<i>S1–07</i>	APPROACH SLAB WIDENING DETAILS	S6-01 TO S6-02	GENERAL DRAWINGS
	DDIDCE NO 220054	S6-03	TYPICAL SECTION SURFACE PREPARATION DETAILS
	BRIDGE NO. 230054	S6-04	DECK REPAIRS
S2-01 TO S2-02	GENERAL DRAWINGS	S6-05	ASPHALT PLUG JOINT DETAILS
S2-03	TYPICAL SECTION SURFACE PREPARATION DETAILS	S6-06	SUBSTRUCTURE REPAIR
S2-04 TO S2-05	DECK REPAIRS		BRIDGE NO. 230385
S2-06	FOAM JOINT SEAL DETAILS		
<i>S2–07</i>	SUBSTRUCTURE REPAIR	S7-01 TO S7-02	GENERAL DRAWINGS
	BRIDGE NO. 230381	<b>S7–03</b>	TYPICAL SECTION SURFACE PREPARATION DETAILS
		S7-04 TO S7-05	DECK REPAIRS
S3-01 TO S3-02	GENERAL DRAWINGS	<b>S7–06</b>	ASPHALT PLUG JOINT DETAILS
S3-03	TYPICAL SECTION SURFACE PREPARATION DETAILS	<i>S7–07</i>	SUBSTRUCTURE REPAIR
S3-04 TO S3-05	DECK REPAIRS		BRIDGE NO. 230386
S3-06	FOAM JOINT SEAL DETAILS	00 44 550 00 44	
<i>S3–07</i>	EXPANSION JOINT SEAL DETAILS	S8-01 TO S8-02	GENERAL DRAWINGS
	BRIDGE NO. 230382	S8-03	TYPICAL SECTION SURFACE PREPARATION DETAILS
		S8-04 TO S8-05	DECK REPAIRS
S4-01 TO S4-02	GENERAL DRAWINGS	S8-06	ASPHALT PLUG JOINT DETAILS
S4-03	TYPICAL SECTION SURFACE PREPARATION DETAILS	S8-07 TO S8-08	SUBSTRUCTURE REPAIR
S4-04 TO S4-05	DECK REPAIRS		



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# COLUMBUS COUNTY

STATE	STA	SHRET NO.	TOTAL SHEETS		
N.C.	]	HI-0018	1B	79	
STATE	PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	TON	
499	989.1.1	0074(247)	P.E	•	
499	989.3.1	0074(247)	CON	CONST.	
1					

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DECK TREATMENT, JOINT REPAIRS, PAINTING EXISTING STRUCTURE, PAINTING
EXISTING WEATHERING STEEL STRUCTURE, SUBSTRUCTURE REPAIR, CONCRETE PILE
ENCAPSULATION, EPOXY COATING BENT CAPS

### INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
	BRIDGE NO. 230387
S9-01 TO S9-02	GENERAL DRAWINGS
S9-03	TYPICAL SECTION SURFACE PREPARATION DETAILS
S9-04 TO S9-05	DECK REPAIRS
S9-06	ASPHALT PLUG JOINT DETAILS
<i>\$9–07</i>	SUBSTRUCTURE REPAIR
	BRIDGE NO. 230388
S10-01 TO S10-02	GENERAL DRAWINGS
S10-03	TYPICAL SECTION SURFACE PREPARATION DETAILS
S10-04 TO S10-05	DECK REPAIRS
<i>S10–06</i>	ASPHALT PLUG JOINT DETAILS
<i>S10–07</i>	SUBSTRUCTURE REPAIR
	BRIDGE NO. 230408
S11-01 TO S11-02	GENERAL DRAWINGS
S11-03	TYPICAL SECTION SURFACE PREPARATION DETAILS
S11-04 TO S11-05	DECK SURFACE REPAIR
	STANDARD DETAILS
SD-1	TYPICAL CAP AND COLUMN REPAIR DETAILS
SN	STANDARD NOTES

	TOTAL BILL OF MATERIAL														
BRIDGE NO.	FLOATING TURBIDITY CURTAIN	GROOVING BRIDGE FLOORS	CLASS IB SURFACE PREPARATION	CLASS II SURFACE PREPARATION	SHOTCRETE REPAIRS	EPOXY RESIN INJECTION	CLEANING AND REPAINTING OF BRIDGE #_	CLEANING AND PAINTING EXISTING WEATHERING STEEL FOR BRIDGE #_	PAINTING CONTAINMENT FOR BRIDGE #_	POLLUTION CONTROL	APPROACH SLAB WIDENING	FOAM JOINT SEALS FOR PRESERVATION	EXPANSION JOINT SEALS FOR PRESERVATION	ASPHALT PLUG JOINTS FOR PRESERVATION	PILE
	SQ. YDS.	SQ. FT.	SQ. YDS.	SQ. YDS.	CU. FT.	LIN. FT.	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
230053		8,783		28.4			LUMP SUM		LUMP SUM	LUMP SUM	LUMP SUM	82.0			
230054		8,626		28.5		10.0	LUMP SUM		LUMP SUM	LUMP SUM		82.0			
230381		8,050		13.6				LUMP SUM	LUMP SUM	LUMP SUM		128.0	43.5		
230382		7,902		9.2				LUMP SUM	LUMP SUM	LUMP SUM		85.0	87.0		
230383	65.0		508.6							<del></del>				231.0	191.2
230384	95.0		508.6							<del></del>				231.0	239.8
230385	50.0		928.6			<del></del>				<del></del>				346.5	393.4
230386	45.0		928.6		2.3	<del></del>				<del></del>				346.5	253.6
230387	45.0		648.6											269.5	200.4
230388	20.0		648.6							<del></del>				269.5	125.0
230408										<del></del>					
TOTAL	320.0	33,361	4,171.6	79.7	2.3	10.0	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	377.0	130.5	1,694.0	1,403.4

4,1/1.6	/9./	2.3	10.0	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	3//.0			
	TOTAL BILL OF MATERIAL											
BRIDGE NO.	POLYESTER POLYMER CONCRETE MATERIALS	EPOXY POLYMER CONCRETE MATERIALS (ALTERNATE)	EPOXY COATING	SCARIFYING BRIDGE DECK	SHOTBLASTING BRIDGE DECK	CONCRETE DECK REPAIR FOR PC OVERLAY	PLACING AND FINISHING PC OVERLAY	BRIDGE DECK WATERPROOFING MEMBRANE-SPRAY APPLIED	SILANE DECK TREATMENT			
	CU. YDS.	CU. YDS.	SQ. FT.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.			
230053	34.4	34.4		993.8	993.8	35.6	993.8					
230054	36.3	36.3		1,044.9	1,044.9	28.6	1,044.9					
230381	34.4	34.4	294	985.4	985.4	14.1	985.4					
230382	33.7	33.7	294	964.4	964.4	9.4	964.4					
230383								440.6				
230384								440.6				
230385								860.6				
230386								860.6				
230387								580.6				
230388								580.6				
230408					1,447.6				1,447.6			
TOTAL	138.8	138.8	588	3,988.5	5,436.1	87.7	3,988.5	3,763.6	1,447.6			

#### NOTE:

AT THE TIME OF THESE PLANS. IT WAS NOT ANTICIPATED THAT THE ITEM(S) LISTED BELOW WOULD BE REQUIRED. HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT THE FOLLOWING ITEM(S) LISTED, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETE THE INTENDED BRIDGE PRESERVATION/REHABILITATION WORK. THE CONTRACTOR SHALL BE PREPARED TO PERFORM SUCH WORK IN A TIMELY MANNER, AS DETERMINED IN THE FIELD. SUCH WORK SHALL BE CONSIDERED EXTRA WORK AND SHALL BE ADDRESSED AS PER ARTICLE 104-7 OF THE STANDARD SPECIFICATIONS. PROJECT SPECIAL PROVISIONS THAT OUTLINE REQUIREMENTS FOR THESE POTENTIAL ADDITIONAL WORK ITEMS HAVE BEEN PROVIDED IN THE PROJECT DOCUMENTS, BUT NO QUANTITIES HAVE BEEN LISTED. ACTUAL PAY ITEMS, QUANTITIES, AND COSTS WILL BE ESTABLISHED, AS REQUIRED, IF FXTRA WORK IN FNCOUNTERED. EXTRA WORK IN ENCOUNTERED.

**UNANTICIPATED ITEMS:** 

CLASS III SURFACE PREPARATION **VOLUMETRIC MIXER** 



**HI-0018** PROJECT NO.\_

**COLUMBUS** 

230053, 230054, BRIDGE NO. 230381, 230382, 230383, 230384, 230385, 230386, 230387, 230388, 230408

COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RALEIGH

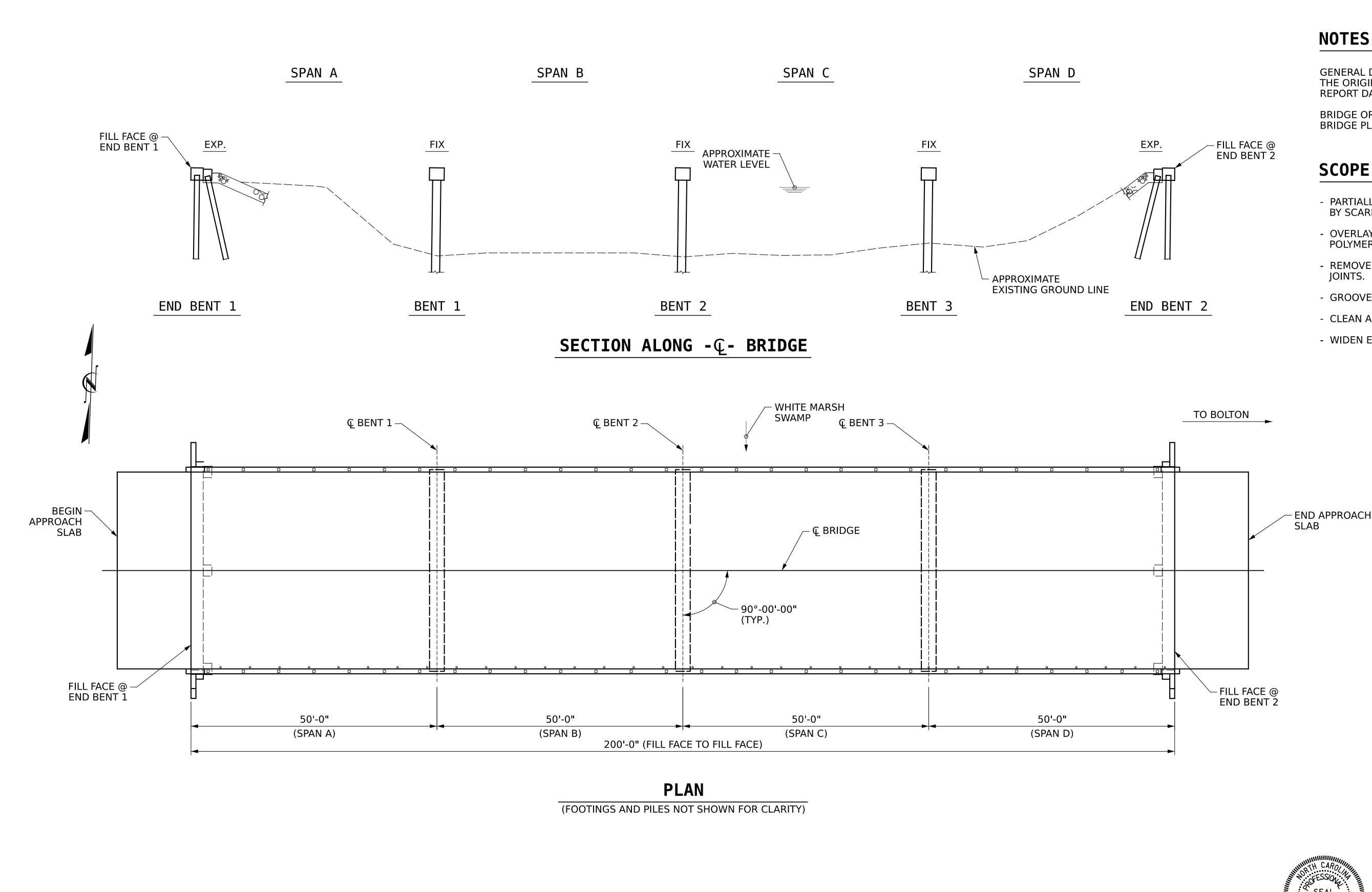
**TOTAL** BILL OF MATERIAL



	l
DOCUMENT NOT CONSIDERED	Ī
FINAL UNLESS ALL	ŀ
SIGNATURES COMPLETED	L
	Ľ

						_	
			REVIS	SIO	NS		SHEET
ED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
)	1			3			TOTAL SHEETS
	2			4			79

R.L.PUTEK J.A.YANNACCONE \_ DATE : 08/2024 \_ DATE : 08/2024 DRAWN BY : . CHECKED BY :



## NOTES:

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/01/2023.

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
- GROOVE PC BRIDGE DECK.
- CLEAN AND PAINT EXISTING STRUCTURAL STEEL BEAMS.
- WIDEN EXISTING APPROACH SLABS.

**HI-0018** PROJECT NO.\_

**COLUMBUS** 

230053

COUNTY

BRIDGE NO.\_

SHEET 1 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

#### GENERAL DRAWING

FOR BRIDGE ON US 74 - US 76 BYP EBL OVER WHITE MARSH SWAMP

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DATE:

REVISIONS NO. BY: S1-01 DATE: TOTAL SHEETS 79

R.L.PUTEK J.A.YANNACCONE \_ DATE : 08/2024 \_ DATE : 08/2024 DRAWN BY : CHECKED BY :

DATE RESIDENT ENGINEER

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



#### 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 CO	ORDINATES
LATITUDE	LONGITUDE
34°-20'-58.63''	78°-40'-16.51''

SAMPLE BAR REPLACEMENT					
SIZE	LENGTH				
#3	6'-2"				
#4	7'-4"				
#5	8'-6"				
#6	9'-8"				
#7	10'-10"				
#8	12'-0"				
#9	13'-2"				
#10	14'-6"				
#11	15'-10"				

NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND  $f_V = 60 \text{ksi.}$ 

#### **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 BRIDGE SURFACE AND/OR TRAFFIC.

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.

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS ASSOCIATED WITH THE CLEANING AND REPAINTING OF BRIDGE.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED. AND FOR PROIECTS REOUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT, AND THE SAMPLE BARS SHOULD BE REPLACED BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING

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 STRUCTURE SPECIAL PROVISION.

FOR PAINTING EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR APPROACH SLAB WIDENING, SEE SPECIAL PROVISIONS.

> **HI-0018** PROJECT NO. **COLUMBUS** COUNTY

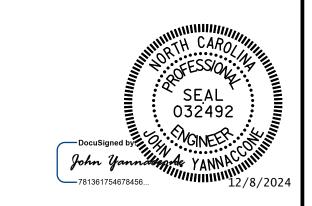
230053 BRIDGE NO.

SHEET 2 OF 2

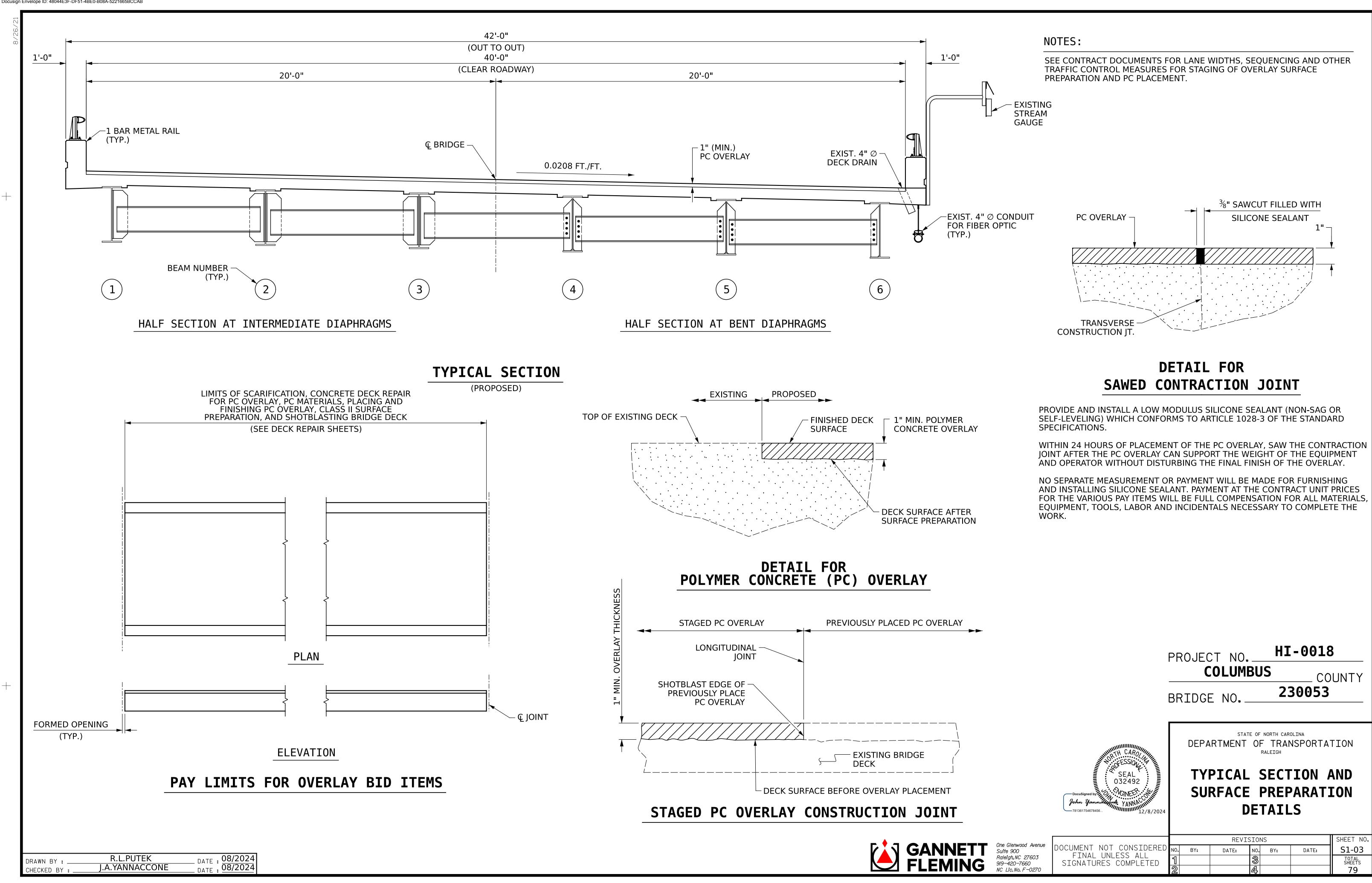
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

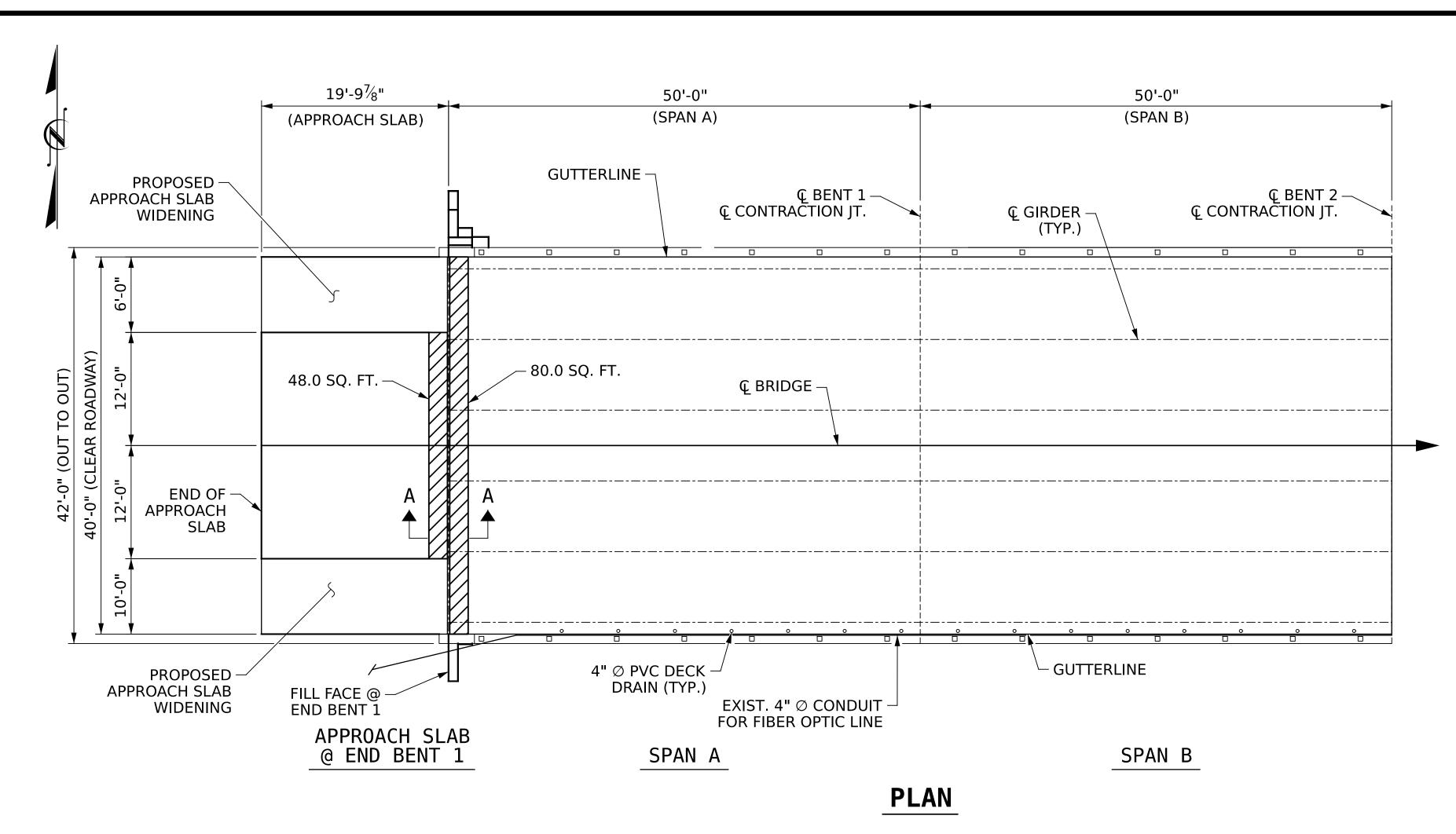
## GENERAL DRAWING

FOR BRIDGE ON US 74 - US 76 BYP EBL OVER WHITE MARSH SWAMP









#### **NOTES**

REPAIR LOCATIONS AND ESTIMATED QUAINTITIES 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 QUAINTITIES ENTERED INTO THE REPAIR QUAINTITY 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  $1\frac{1}{2}$ " PER EXISTING BRIDGE PLANS.

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

FOR CONTRACTION JOINTS, SEE "TYPICAL SECTION AND SURFACE PREPARATION" SHEET.

FOR PROPOSED APPROACH SLAB WIDENING, SEE "APPROACH SLAB WIDENING DETAILS" SHEET.

AS-BUILT QUANTITY REPAIR TABLE							
	DECK UNDERSI	DE REPA	IR				
		EST	IMATE	AC <sup>-</sup>	ΓUAL		
SHOTCRETE REPAIRS		AREA SF	VOLUME CF	AREA SF	VOLUME CF		
UNDERSIDE	SPAN A	0.0	0.0				
OF DECK	SPAN B	0.0	0.0				
INTERIOR	SPAN A	0.0	0.0				
DIAPHRAGMS	SPAN B	0.0	0.0				
OVERHANG	SPAN A	0.0	0.0				
DIAPHRAGMS	SPAN B	0.0	0.0				
UNDERSIDE	SPAN A	0.0	0.0				
OF OVERHANG	SPAN B	0.0	0.0				
			ESTIMATE	Δ	CTUAL		
UNDERSIDE EPOXY	SPAN A		0.0 LIN.FT				
RESIN INJECTION	SPAN B		0.0 LIN.FT.				

### AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR

		ESTIMATE	ACTUAL	
	APPROACH SLAB @ END BENT 1	52.6 SQ. YDS.		
SCARIFYING BRIDGE DECK	SPAN A	222.2 SQ. YDS.		
	SPAN B	222.2 SQ. YDS.		
	APPROACH SLAB @ END BENT 1	52.6 SQ. YDS.		
SHOTBLASTING	SPAN A	222.2 SQ. YDS.		
BRIDGE DECK	SPAN B	222.2 SQ. YDS.		
	APPROACH SLAB @ END BENT 1	5.3 SQ. YDS.		
CLASS II SURFACE PREPARATION	SPAN A	8.9 SQ. YDS.		
	SPAN B	0.0 SQ. YDS.		
	APPROACH SLAB @ END BENT 1	1.8 CU. YDS.		
PC .	SPAN A	7.7 CU. YDS.		
MATERIALS	SPAN B	7.7 CU. YDS.		
	APPROACH SLAB @ END BENT 1	52.6 SQ. YDS.		
PLACING AND FINISHING	SPAN A	222.2 SQ. YDS.		
PC OVERLAY	SPAN B	222.2 SQ. YDS.		
	APPROACH SLAB @ END BENT 1	717 SQ. FT.		
GROOVING BRIDGE	SPAN A	1838 SQ. FT.		
FLOORS	SPAN B	1838 SQ. FT.		

SCARIFICATION AND SHOTBLASTING OF BRIDGE DECK

CLASS II SURFACE PREPARATION

SEAL 032492

UNDERSIDE OF DECK SHOTCRETE REPAIRS

**HI-0018** PROJECT NO.\_ **COLUMBUS** COUNTY

230053 BRIDGE NO.\_

SHEET 1 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

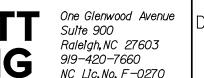
**DECK REPAIRS** SPAN A W/ APPROACH SLAB AND SPAN B

SHEET NO

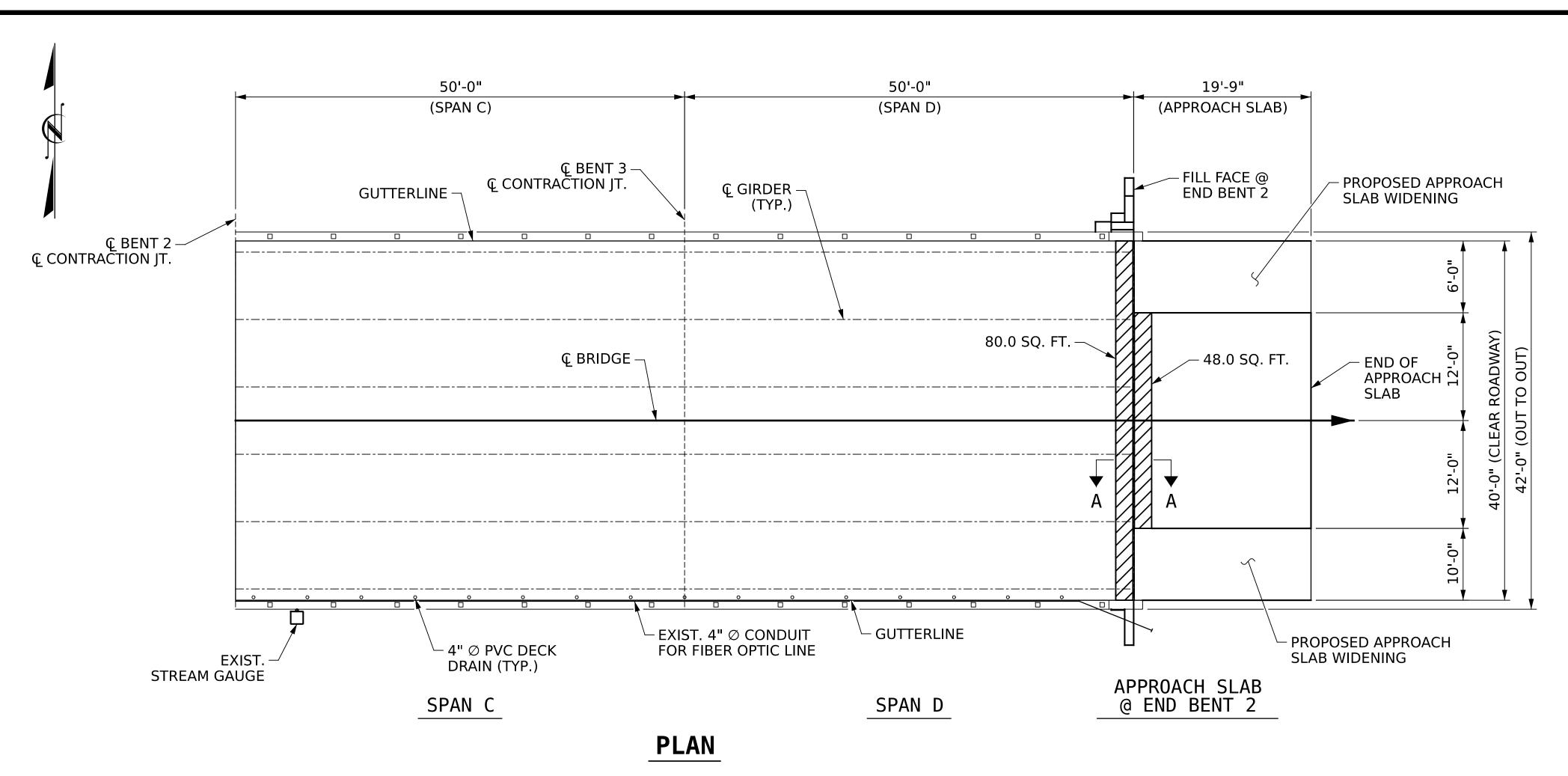
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TOTAL SHEETS 79

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



#### **NOTES**

REPAIR LOCATIONS AND ESTIMATED QUAINTITIES 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 QUAINTITIES ENTERED INTO THE REPAIR QUAINTITY 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  $1\frac{1}{2}$ " PER EXISTING BRIDGE PLANS.

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

FOR CONTRACTION JOINTS, SEE "TYPICAL SECTION AND SURFACE PREPARATION" SHEET.

FOR PROPOSED APPROACH SLAB WIDENING, SEE "APPROACH SLAB WIDENING DETAILS" SHEET.

AS-BUILT QUANTITY REPAIR TABLE							
	DECK UNDERSI	E REPA	IR				
		EST	IMATE	AC <sup>*</sup>	TUAL		
SHOTCRETE REPAIRS		AREA SF	VOLUME CF	AREA SF	VOLUME CF		
UNDERSIDE OF DECK	SPAN C	0.0	0.0				
	SPAN D	0.0	0.0				
INTERIOR	SPAN C	0.0	0.0				
DIAPHRAGMS	SPAN D	0.0	0.0				
OVERHANG	SPAN C	0.0	0.0				
DIAPHRAGMS	SPAN D	0.0	0.0				
UNDERSIDE	SPAN C	0.0	0.0				
OF OVERHANG	SPAN D	0.0	0.0				
			ESTIMATE	<u> </u>	ACTUAL		
UNDERSIDE EPOXY	SPAN C		0.0 LIN.FT				
RESIN INJECTION	SPAN D		0.0 LIN.FT				

### AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR

SCARIFYING   SPAN C   222.2 SQ. YDS.	AL
BRIDGE DECK  SPAN D  APPROACH SLAB @ END BENT 2  SHOTBLASTING BRIDGE  SPAN C  222.2 SQ. YDS.  222.2 SQ. YDS.  222.2 SQ. YDS.	
BRIDGE DECK  SPAN D  APPROACH SLAB @ END BENT 2  SHOTBLASTING BRIDGE  SPAN C  222.2 SQ. YDS.  222.2 SQ. YDS.  222.2 SQ. YDS.	
DECK SPAN D 222.2 SQ. YDS.  APPROACH SLAB @ END BENT 2 52.4 SQ. YDS.  SHOTBLASTING BRIDGE SPAN C 222.2 SQ. YDS.	
SHOTBLASTING SPAN C 222.2 SQ. YDS. BRIDGE	
BRIDGE 22212 SQL 1753	
BRIDGE 22212 SQL 1753	
APPROACH SLAB @ END BENT 2 52.4 SQ. YDS.	
CLASS II SPAN C 0.0 SQ. YDS.	
SURFACE PREPARATION SPAN D 8.9 SQ. YDS.	
APPROACH SLAB @ END BENT 2 5.3 SQ. YDS.	
PC SPAN C 7.7 CU. YDS.	
MATERIALS SPAN D 7.7 CU. YDS.	
APPROACH SLAB @ END BENT 2 1.8 CU. YDS.	
PLACING AND SPAN C 222.2 SQ. YDS.	
FINISHING PC OVERLAY SPAN D 222.2 SQ. YDS.	
APPROACH SLAB @ END BENT 2 52.4 SQ. YDS.	
GROOVING SPAN C 1838 SQ. FT.	
BRIDGE FLOORS SPAN D 1838 SQ. FT.	
APPROACH SLAB @ END BENT 2 714 SQ. FT.	

SCARIFICATION AND SHOTBLASTING OF BRIDGE DECK

CLASS II SURFACE PREPARATION

UNDERSIDE OF DECK SHOTCRETE REPAIRS

**HI-0018** PROJECT NO.\_ **COLUMBUS** COUNTY

230053 BRIDGE NO.\_

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

S1-05

TOTAL SHEETS

79

**DECK REPAIRS** 

SPAN C AND SPAN D W/ APPROACH SLAB



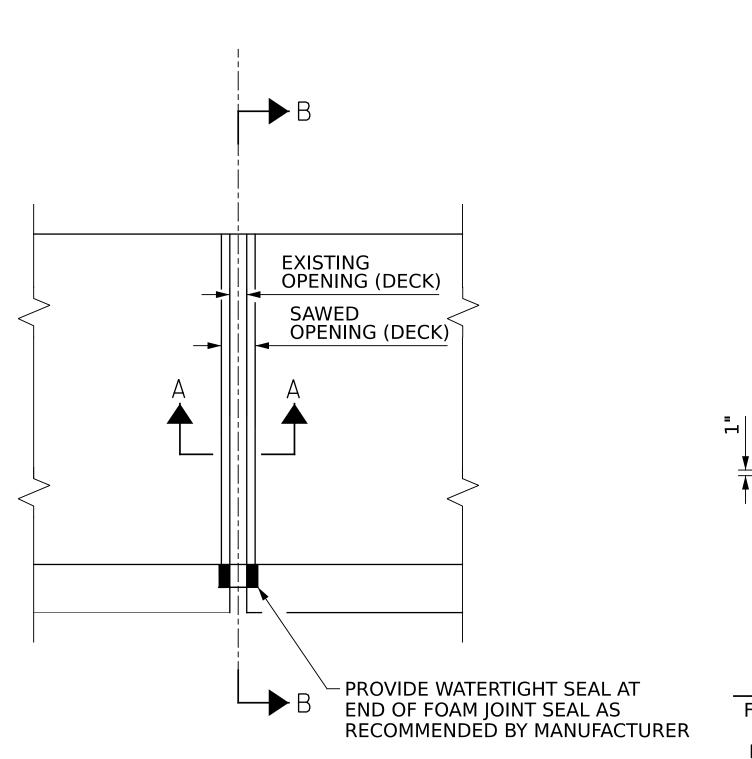
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1<sup>5</sup>⁄16" @ 90° F 1<sup>9</sup>16" @ 60° F END BENT 1 & 2 1<sup>11</sup>⁄<sub>16</sub>" @ 45° F DECK SURFACE AFTER - REMOVE EXIST. - CONCRETE DECK - PROPOSED DECK **ELASTOMERIC** SCARIFYING AND 45° REPAIR FOR PC € JOINT — SURFACE PREPARATION SHOTBLASTING BRIDGE CONCRETE HEADER OVERLAY (TYP.) (TYP.) DECK (TYP.) (TYP.) REMOVE EXISTING — – PROPOSED - EXIST. TOP FOAM JOINT SEAL PC OVERLAY SEE DETAIL "A" 24"± (TYP.) OF DECK AND JOINT MATERIAL (TYP.) 1/4" BEVEL AS SHOWN \_\_\_\_\_ APPROACH SLAF - FOAM JOINT SEAL APPROACH SLAB -APPROACH SLAB CONCRETE FOR DECK **APPROACH SLAB** REPAIR FOR PC OVERLAY EXISTING JOINT **EXISTING JOINT** - CLASS II SURFACE **EXISTING JOINT EXISTING JOINT** (AS NEEDED) PREPARATION EXISTING JOINT AFTER PROPOSED JOINT JOINT DEMOLITION EXISTING JOINT PRIOR TO SAWING PROPOSED FOAM JOINT SEAL

# SECTION A-A (NOT TO SCALE)



**PLAN** 

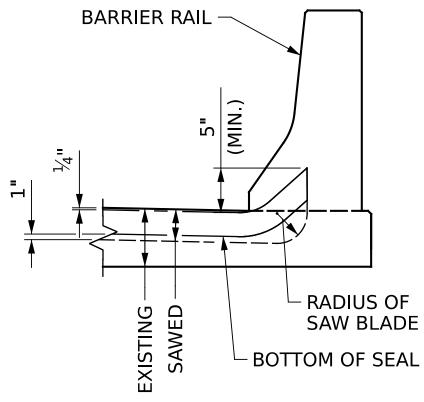
\_ DATE : 08/2024 \_ DATE : 08/2024

R.L.PUTEK

J.A.YANNACCONE

DRAWN BY :

CHECKED BY:



#### **SECTION B-B**

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

#### **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  $\frac{1}{4}$ ", 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  $\frac{1}{2}$ " BUT REINFORCING STEEL SHALL NOT BE DAMAGED. CONTRACTOR SHALL REMOVE SURFACE CONCRETE TO VERIFY THAT SAWCUT DEPTH WILL NOT DAMAGE EXISTING REINFORCING STEEL.

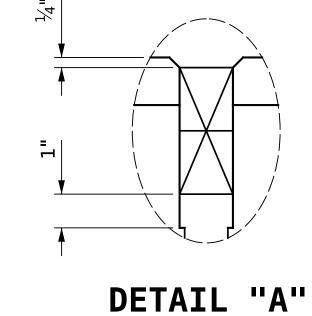
FOR EXCAVATION BELOW THE BOTTOM OF PLANNED CLASS II SURFACE PREPARATION, CONCRETE FOR DECK REPAIR FOR PC OVERLAY SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED PC OVERLAY.

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 IS THE MINIMUM DEPTH REQUIRED.



AS-BUILT	SUMMARY	OF QUA	NTITIES
ITEM	LOCATION	ESTIMATED	ACTUAL
FOAM JOINT SEALS FOR	END BENT 1	41.0 LIN.FT.	
PRESERVATION	END BENT 2	41.0 LIN.FT.	
CONCRETE DECK	END BENT 1	17.8 SQ.YDS.	
PC OVERLAY	END BENT 2	17.8 SQ.YDS.	

PROJECT NO. HI-0018
COLUMBUS COUNTY
BRIDGE NO. 230053



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

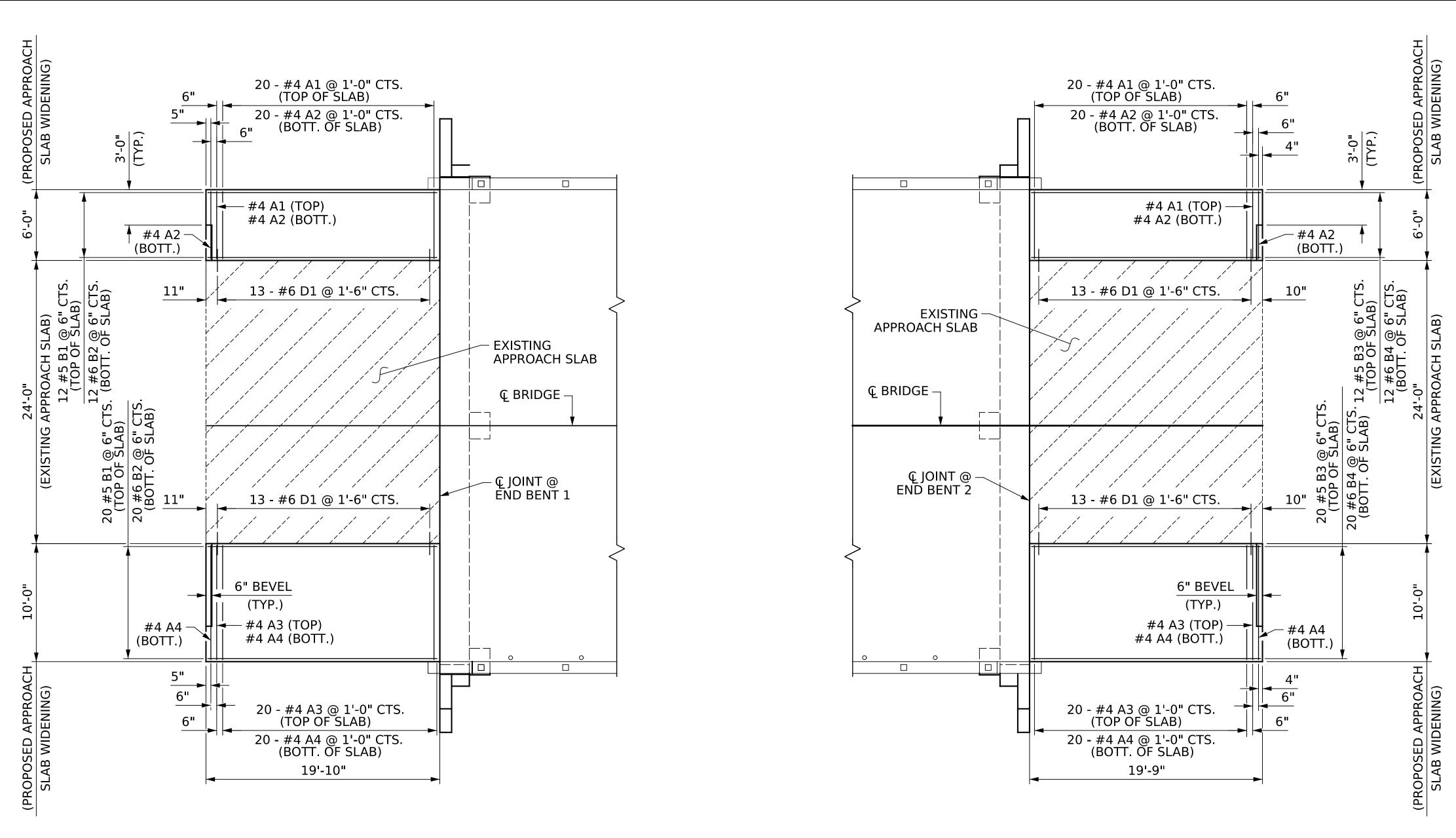
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FOAM JOINT SEAL DETAILS

GANNETT One Glenwood Avenue Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

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## PLAN @ END BENT 2

#### - MATCH TOP OF SLAB WITH FINAL BRIDGE DECK ELEVATION / $3\frac{1}{4}$ " CONTINUOUS HIGH CHAIR UPPER (CHCU) @ 3'-0" CTS. ACROSS SLAB SAWED OPENING FOR - #6 D1 DOWEL PLACED /- #6 "B" JOINT SEAL MID-DEPTH OF SLAB −#5 "B" ROADWAY -(TYP.) BARS – #4 "A" SEE "FOAM JOINT DETAILS" BARS 10 #4 "A" BARS - $5\frac{1}{2}$ " B25.0C $\angle$ 2:1 SLOPE $\angle$ (SEE ROADWAY PLANS) - APPROVED WIRE BAR SUPPORTS @ 3'-0" CTS. 2 LAYERS OF 30 LB. – ROOFING FELT TO PREVENT BOND 1" FORMED OPENING

SECTION THRU SLAB

### **NOTES**

- 1. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE APPROACH SLABS PRIOR TO ORDERING REINFORCING BARS.
- 2. FOR ADHESIVELY ANCHORED DOWELS, NO FIELD TESTING IS REQUIRED.
- 3. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.
- 4. FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.
- 5. FOR APPROACH SLAB WIDENING, SEE SPECIAL PROVISIONS.

BRIDGE NO. STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

> APPROACH SLAB WIDENING DETAILS

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**HI-0018** PROJECT NO.

**COLUMBUS** 

**BILL OF MATERIAL** 

STR

SIZE

#4

#4

#4

#5

#6

#6

APPROACH SLAB AT END BENT 2

SIZE

#4

#4

#4

#4

#5

#6

#6

END BENT 1

79

83

136

142

631

933

59

1217 LBS.

846 LBS.

79

83

136

142

629

929

59

1213 LBS.

844 LBS.

9.9 CU. YDS.

10.0 CU. YDS.

TYPE | LENGTH | WEIGHT

5'-8"

5'-8"

9'-8"

9'-8"

18'-11"

19'-5"

1'-6"

TYPE | LENGTH | WEIGHT

5'-8"

5'-8"

9'-8"

9'-8"

18'-10"

19'-4"

1'-6"

APPROACH SLAB AT

NO.

21

22

21

22

32

32

26

REINFORCING STEEL

REINFORCING STEEL

CLASS AA CONCRETE

NO.

21

22

21

22

32

32

26

REINFORCING STEEL

REINFORCING STEEL

**CLASS AA CONCRETE** 

\* EPOXY COATED

\* EPOXY COATED

\*A1

\*A3

Α4

\*B1

B2

D1

BAR

\*A1

\*A3

Α4

\*B3

В4

D1

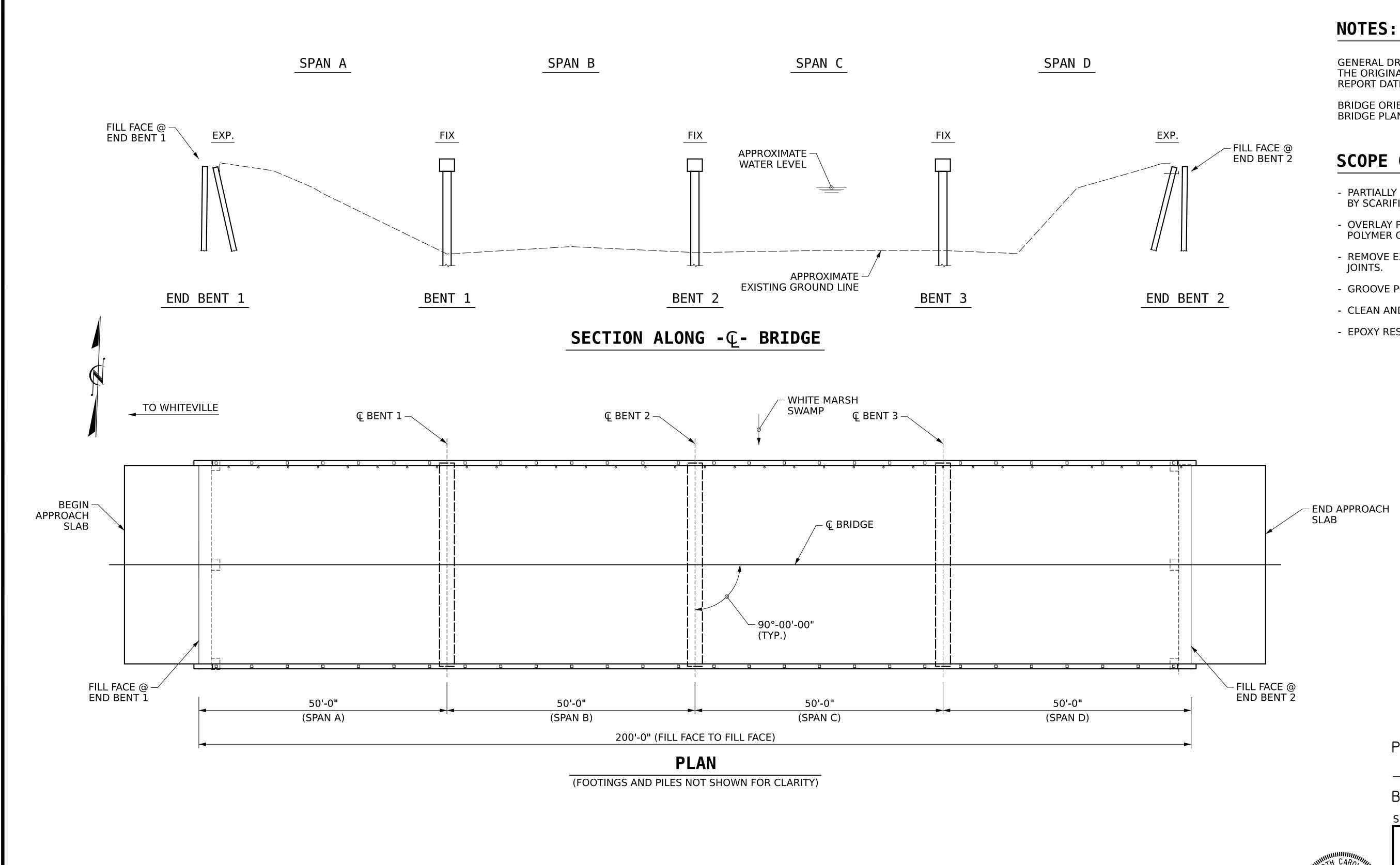
COUNTY

230053

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\_ DATE : 08/2024 \_ DATE : 08/2024 R.L.PUTEK J.A.YANNACCONE

PLAN @ END BENT 1



GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/12/2023.

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.
- GROOVE PC BRIDGE DECK.
- CLEAN AND PAINT EXISTING STRUCTURAL STEEL BEAMS.
- EPOXY RESIN INJECTION OF CONCRETE CRACKS.

**HI-0018** PROJECT NO.\_

COLUMBUS

230054

COUNTY

BRIDGE NO.\_

SHEET 1 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

### GENERAL DRAWING

FOR BRIDGE ON US 74 - US 76 BYP WBL OVER WHITE MARSH SWAMP

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

DATE RESIDENT ENGINEER

R.L.PUTEK J.A.YANNACCONE \_ DATE : 08/2024 \_ DATE : 08/2024 DRAWN BY : CHECKED BY :