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STATE	STATE STATE PROJECT REFERENCE NO.			TOTAL Sheets		
N.C.		I-6036				
STAT	'E PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	DESCRIPTION		
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47985.3.1		0140003	CONS	ST.		

Prepared in th DIVISION OF STRUCTURES MAI 1000 BIRCH RALEIGH,	F HIGHWAYS NAGEMENT UNIT RIDGE DR.
018 STANDARD SPECIFICATIONS	KRISTY ALFORD, PE PROJECT ENGINEER
November 21, 2023	P. KOREY NEWTON, PE PROJECT DESIGN ENGINEER

STRUCTURE
S1
S2
S3
S4
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S6
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S11

DRAWN BY :	S .T. SANDOR	DATE : _6/9/23_
CHECKED BY :	W. C. SMITH	DATE : 6/13/23
DESIGN ENGINEER	OF RECORD:	DATE :

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	INDEX	
RE	DESCRIPTION	SHEETS
	TOTAL BILL OF MATERIAL	S-1
	BRIDGE #090232 ON I-140 WBL & EBL OVER US 17	S1-1 THRU S1-4
	BRIDGE #090233 ON I-140 WBL OVER MORGAN CREEK TRIBUTARY	S2-1 THRU S2-4
	BRIDGE #090234 ON I-140 EBL OVER MORGAN CREEK TRIBUTARY	S3-1 THRU S3-4
	BRIDGE #090235 ON I-140 WBL OVER MORGAN CREEK TRIBUTARY	S4-1 THRU S4-4
	BRIDGE #090236 ON I-140 EBL OVER MORGAN CREEK TRIBUTARY	S5-1 THRU S5-4
	BRIDGE #090237 ON I-140 WBL OVER MORGAN CREEK TRIBUTARY	S6-1 THRU S6-4
	BRIDGE #090238 ON I-140 EBL OVER MORGAN CREEK TRIBUTARY	S7-1 THRU S7-4
	BRIDGE #090239 ON I-140 WBL OVER WILDLIFE CROSSING	S8-1 THRU S8-4
	BRIDGE #090240 ON I-140 EBL OVER WILDLIFE CROSSING	S9-1 THRU S9-4
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	BRIDGE #090242 ON I-140 EBL OVER WILDLIFE CROSSING	S11-1 THRU S11-4

PROJECT NO. I-6036 BRUNSWICK COUNTY

 STATE OF NORTH CAROLINA

 DEPARTMENT OF TRANSPORTATION

 RALEIGH

 INDEX SHEET

 REVISIONS
 SHEET NO.

 BY:
 DATE:
 NO.
 BY:
 DATE:
 SHEET NO.

 BY:
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 BY:
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 SHEET NO.

NOTES

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 REPAIRS.

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 REOUIREMENTS.

WORK ON THE BRIDGES SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTOR'S PLAN USE PLATFORMS, NETS, SCREENS 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.

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION. SEE TRANSPORTATION MANAGEMENT PLANS.

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.

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SN.		

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

ALL PAVEMENT MARKINGS WILL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

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 PROJECTS REQUIRING 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.

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 LANE(S) SHALL BE KEPT FREE AND CLÉAR OF DEBRIS.

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:

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SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND f =60 ksi.

0	COORDINATES FOR	BRIDGES
BRIDGE NUMBER	LATITUDE	LONGITUDE
090232	34° 11' 25.58"	78° 04' 44.06"
090233	34° 11' 39.53"	78° 04' 48.97"
090234	34° 11' 39.93"	78° 04' 47.97"
090235	34° 11' 49.06"	78° 04' 55.33"
090236	34° 11' 49.39"	78° 04' 54.41"
090237	34° 12' 28.68"	78° 04' 39.22"
090238	34° 12' 28.29"	78° 04' 38.53"
090239	34° 13' 06.73"	78° 04' 37.46"
090240	34° 13' 06.80"	78° 04' 36.59"
090241	34° 14' 27.26"	78° 04' 33.31"
090242	34° 14' 27.31"	78° 04' 32.47"

DRAWN BY :	S. T. SANDOR	DATE :6/9/23
CHECKED BY : _	W .C. SMITH	DATE : <u>6/13/23</u>
DESIGN ENGINE	ER OF RECORD:	DATE :

GN DATA AND GENERAL NOTES. SEE SHEET

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE BASED ON 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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR OUANTITY TABLE.

SEE TRANSPORTATION MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING, AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF SURFACE PREPARATION AND SILANE DECK TREATMENT.

FOR SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT, SEE SPECIAL PROVISIONS.

FOR CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

INFORMATION INDICATED ON THE TITLE SHEET AND/OR GENERAL DRAWINGS SHALL BE CONSIDERED GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

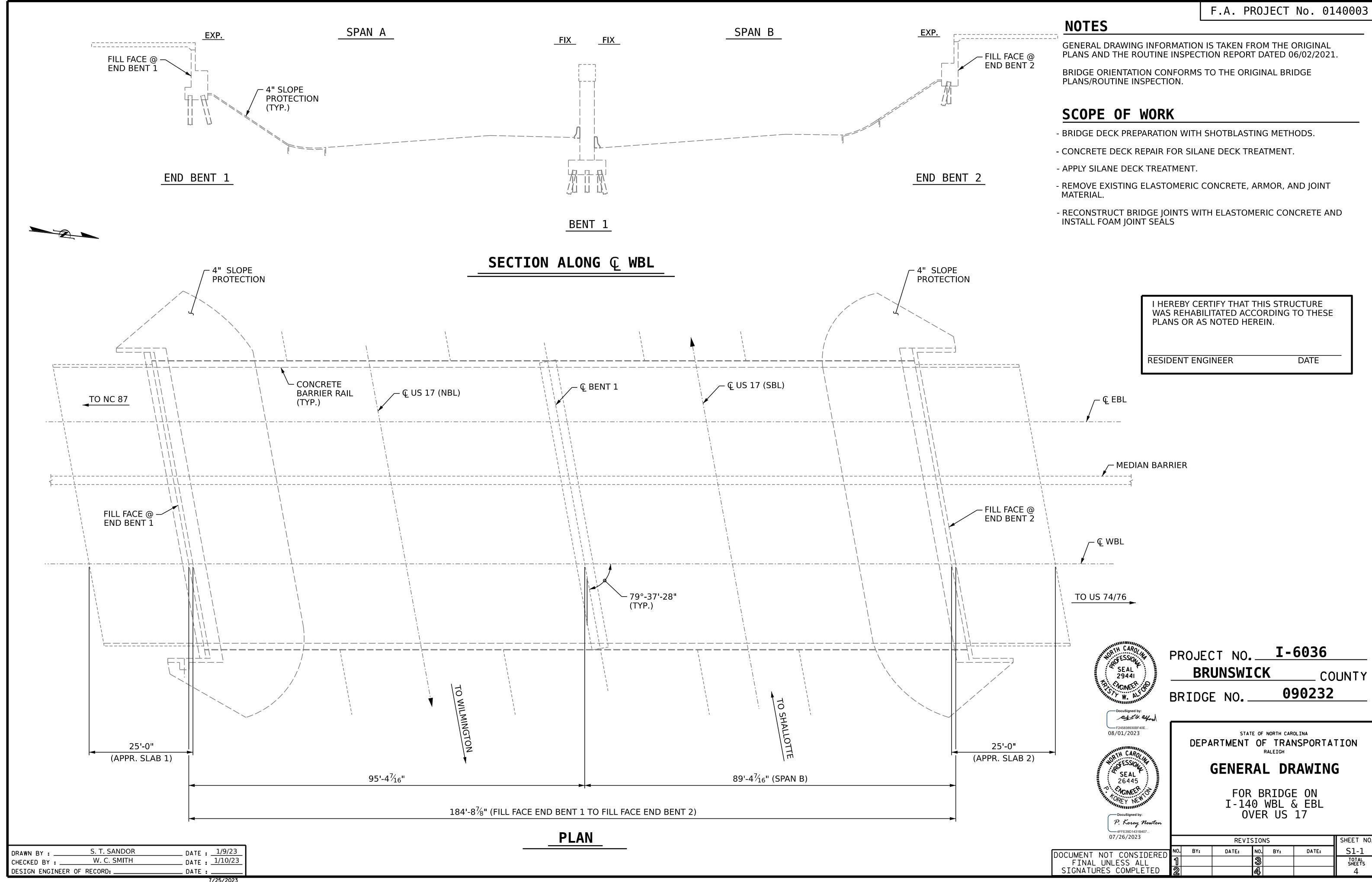
AT THE TIME OF PREPARATION OF THESE PLANS. IT WAS NOT ANTICIPATED THAT THE FOLLOWING ITEM(S) LISTED WOULD BE REQUIRED. HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT THE FOLLOWING ITEM(S) LISTED, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETE THE INTENDED BRIDGE PRESERVATION/REHABILITATION WORK. 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 EXTRA WORK IS ENCOUNTERED.

UNANTICIPATED ITEMS:

CONCRE

		TOTAL BI	LL OF MATE	ERIAL		
BRIDGE NUMBER	FOAM JOINT SEALS FOR PRESERVATION	ELASTOMERIC CONCRETE FOR PRESERVATION	BRIDGE JOINT DEMOLITION	SHOTBLASTING BRIDGE DECK	SILANE DECK TREATMENT	
	LIN. FT.	CU. FT.	SQ. FT.	SQ. YD.	SQ. YD.	
090232	130.4	38.0	130.4	1,320.3	1,320.3	
090233	110.0	32.2	110.0	921.4	921.4	
090234	98.0	28.6	98.0	820.8	820.8	
090235	84.0	24.6	84.0	1,104.9	1,104.9	
090236	84.0	24.6	84.0	1,104.9	1,104.9	
090237	84.0	24.6	84.0	1,105.0	1,105.0	
090238	84.0	24.6	84.0	1,142.0	1,142.0	
090239	84.8	24.8	84.8	746.7	746.7	BRUNSWICK COUNTY
090240	84.8	24.8	84.8	746.7	746.7	BRIDGE NO.
090241	84.4	24.6	84.4	504.8	504.8	
090242	84.4	24.6	84.4	504.8	504.8	
TOTAL	1,012.8	296.0	1012.8	10,022.3	10,022.3	DEPARTMENT OF TRANSPORTATION
						Property Store SEAL 26445 Property NELLIGH TOTAL BILL OF MATERIAL Docusigned by: P. Korey Newton 4FFE33014318407 No. BY: DATE: No. BY: DATE: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL No. BY: DATE: No. BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL No. BY: DATE: No. BY: DATE:

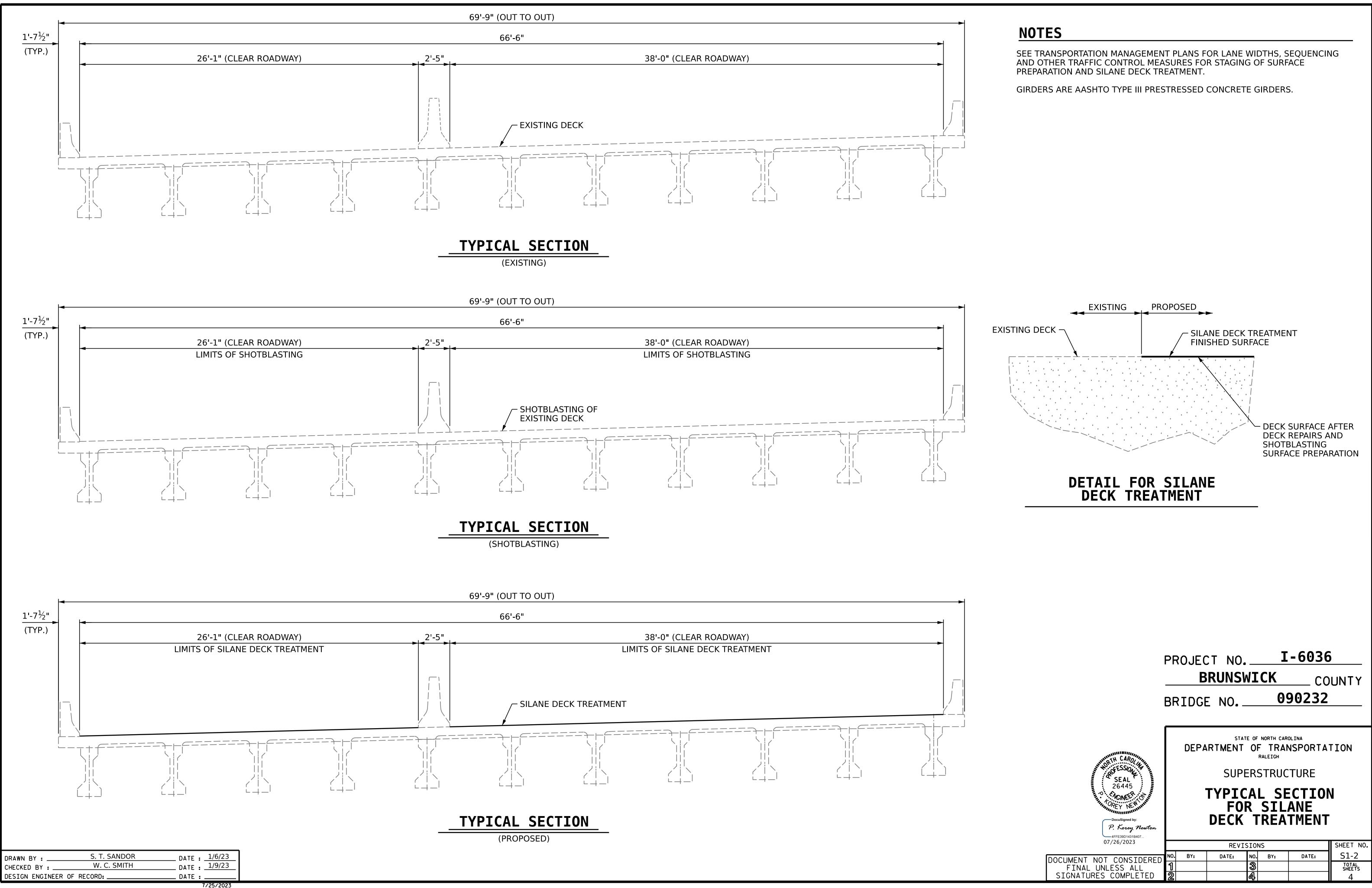
ITEM DESCRIPTION	UNIT
CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT	SQ. FT.



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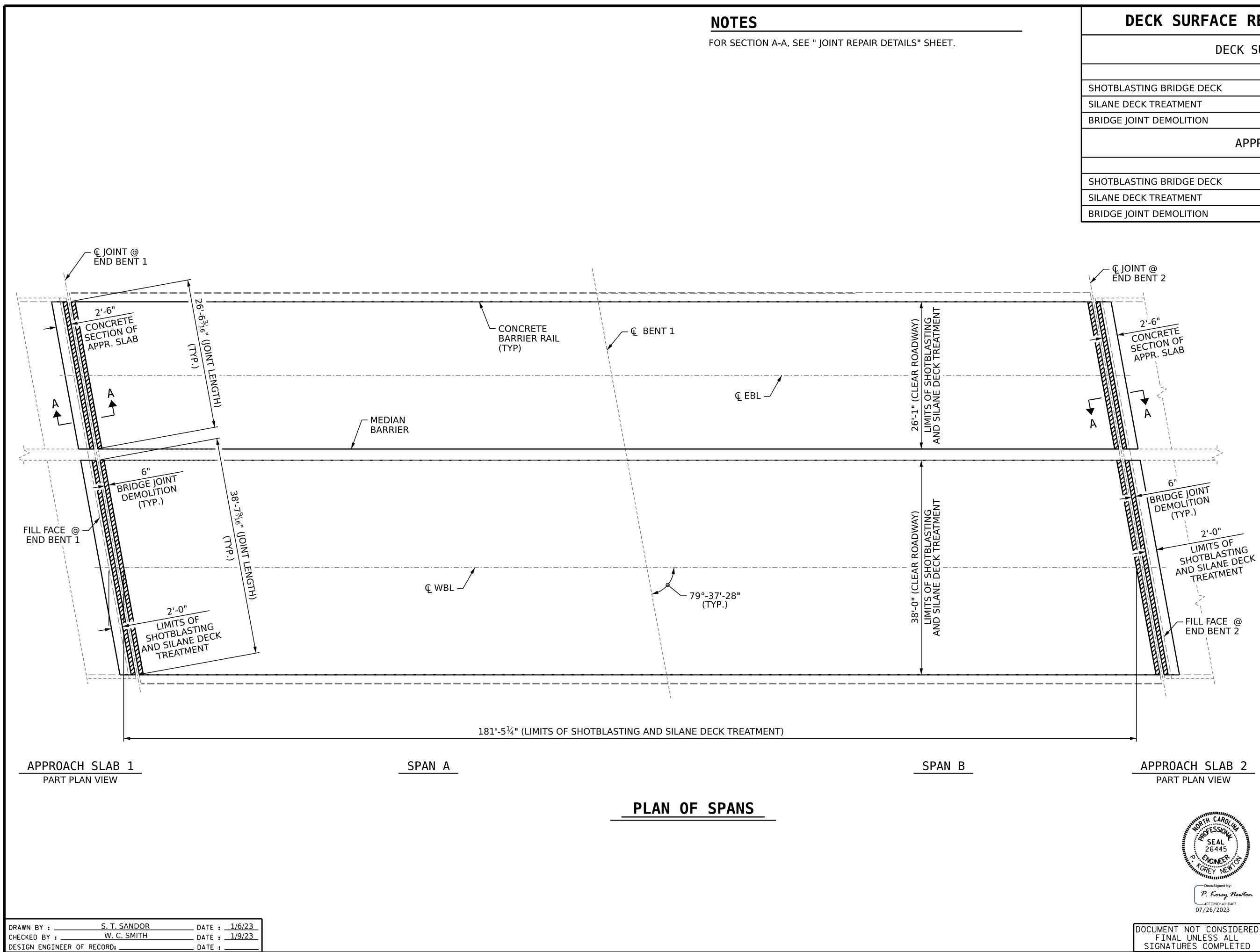
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DECK SURFACE REPAIR QUANTITY TABLE

DECK SURFACE REPAIR

	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	1,291.9 SQ. YDS.	
SILANE DECK TREATMENT	1,291.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	65.2 SQ. FT.	

APPROACH SLABS

	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	28.4 SQ. YDS.	
SILANE DECK TREATMENT	28.4 SQ. YDS.	
BRIDGE JOINT DEMOLITION	65.2 SQ. FT.	



SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT AREA

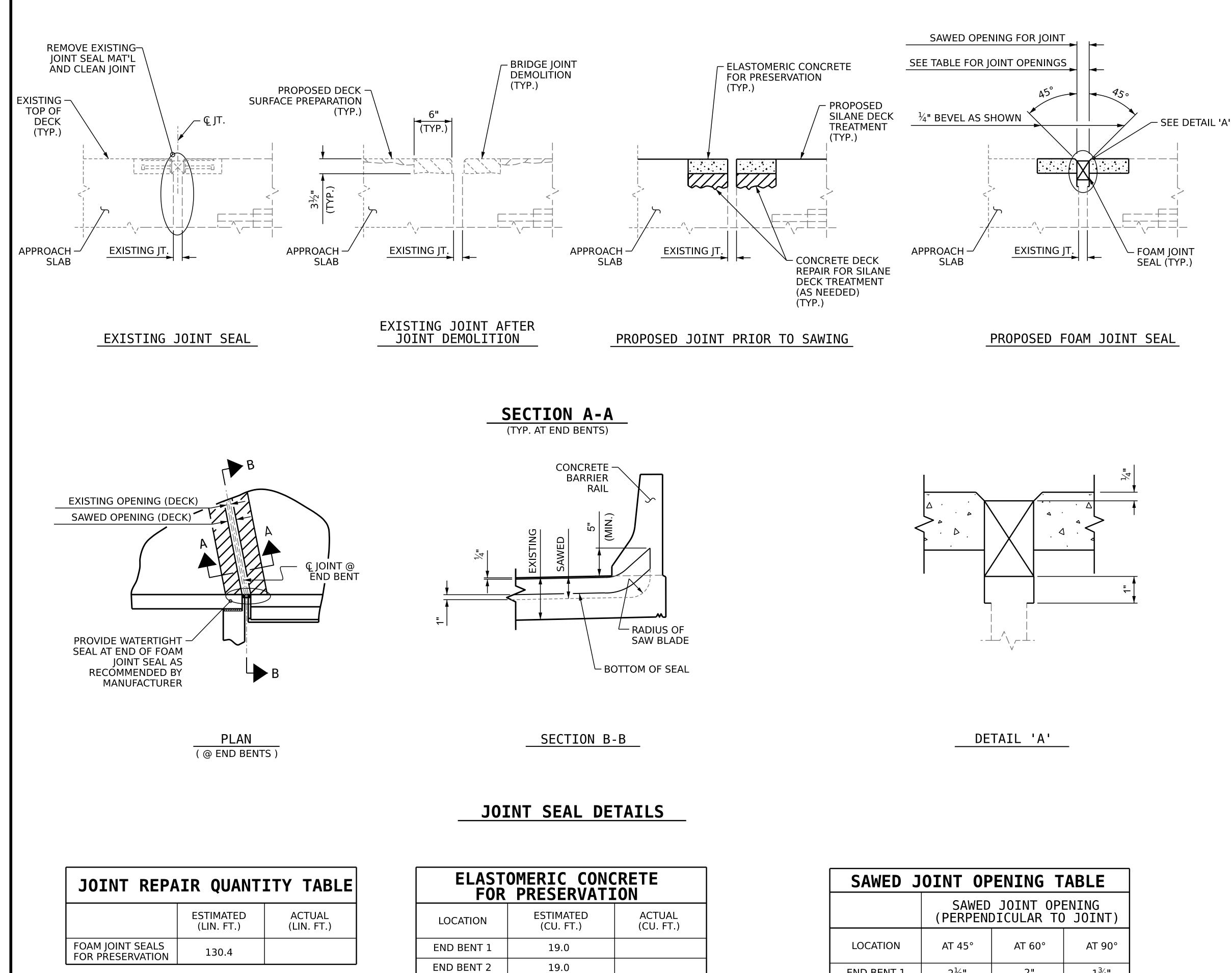


BRIDGE JOINT DEMOLITION

PROJECT NO. I-6036 BRUNSWICK _ COUNTY 090232 BRIDGE NO. STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE PLAN OF SPANS AND APPROACH SLABS REVISIONS SHEET NO. S1-3 NO. BY: DATE: DATE: BY:

TOTAL SHEETS

4



DRAWN BY :	S. T. SANDOR	DATE : 1/6/23
CHECKED BY :	W. C. SMITH	DATE : 1/9/23
DESIGN ENGINEER	R OF RECORD:	DATE :
		7/25/2023

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END BENT 2

TOTAL

38.0

CONCRETE ATION						
D	ACTUAL (CU. FT.)					

SAWED J	OINT OP	ENING T	ABLE
		JOINT OPI DICULAR TO	
LOCATION	AT 45°	AT 60°	AT 90°
END BENT 1	2 ¹ ⁄8"	2"	1 ³ ⁄4"
END BENT 2	2 ¹ ⁄8"	2"	1¾"

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 ACCOMODATE 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 JOINTS IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINTS SHALL BE WATER TIGHT.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

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

QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

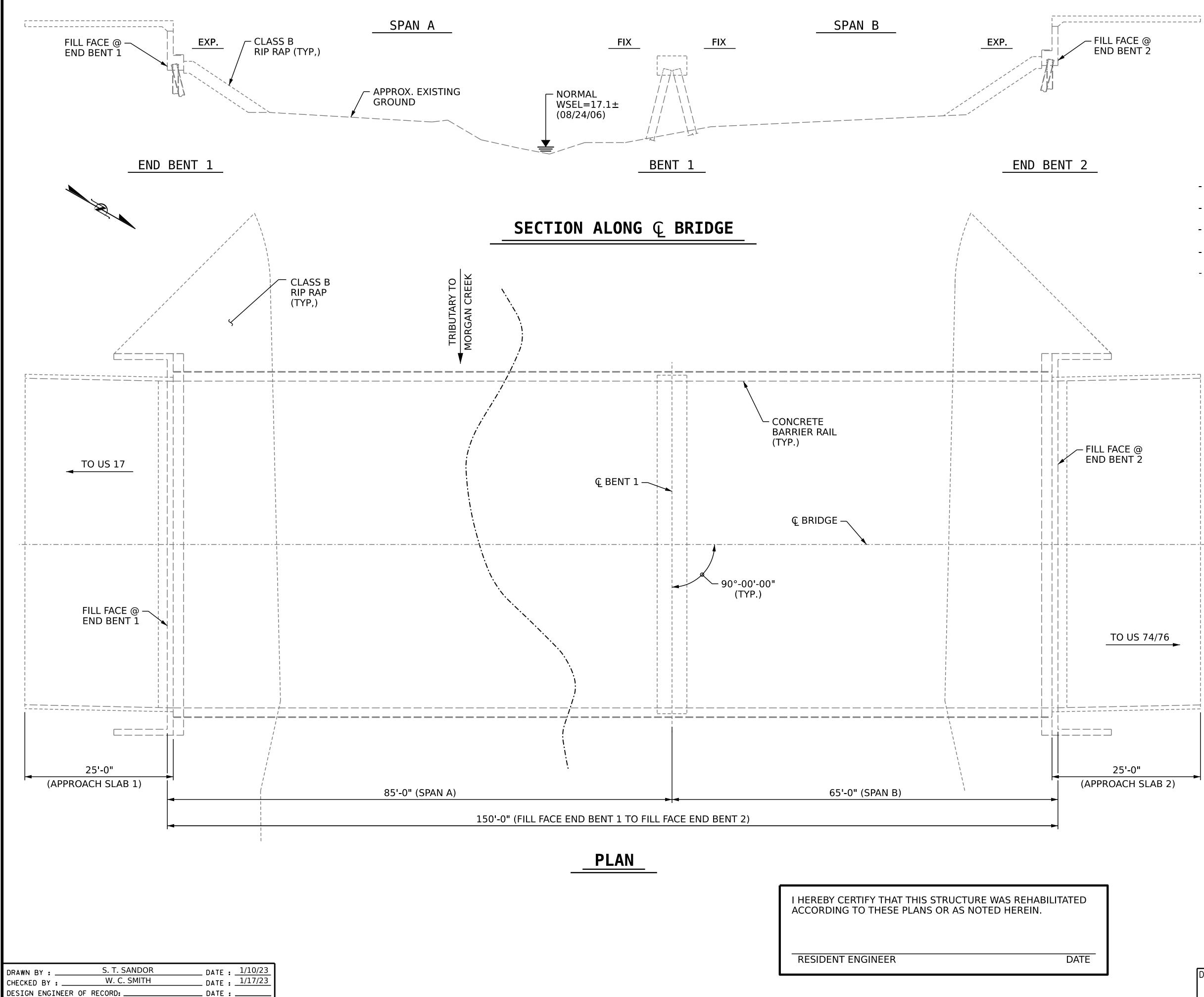
FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATÉRIAL OR ELASTOMERIC CONCRETE SHALL BE REASONABLY FLAT AND LEVEL. THE ENGINEER SHALL DETERMINE ACCEPTABILITY OF THE SURFACE.

FOR EXCAVATION BELOW THE BOTTOM OF PLANNED JOINT DEMOLITION, CONCRETE FOR DECK REPAIR SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOWN.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

	PROJEC	T NO.	I	-6036	5	
	B	RUNSW	IICK	CO	UNTY	
	BRIDGE	NO	0	90232		
NTH CAROLINA	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SEAL 26445 OREY NEW			NT RE ETAII			
DocuSigned by: P. Korey. Newton 4FFE39D1431B407						
07/26/2023		REVIS			SHEET NO.	
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NOTES

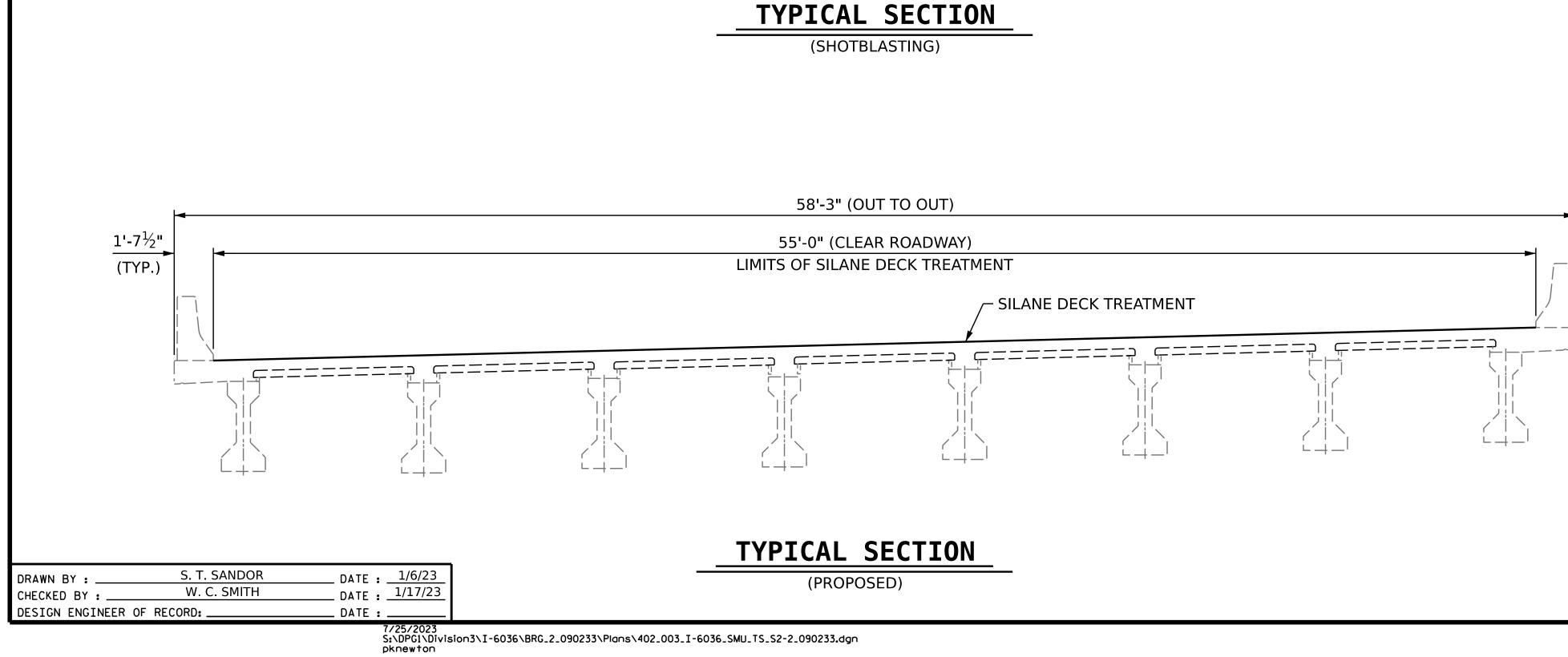
GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/07/2021.

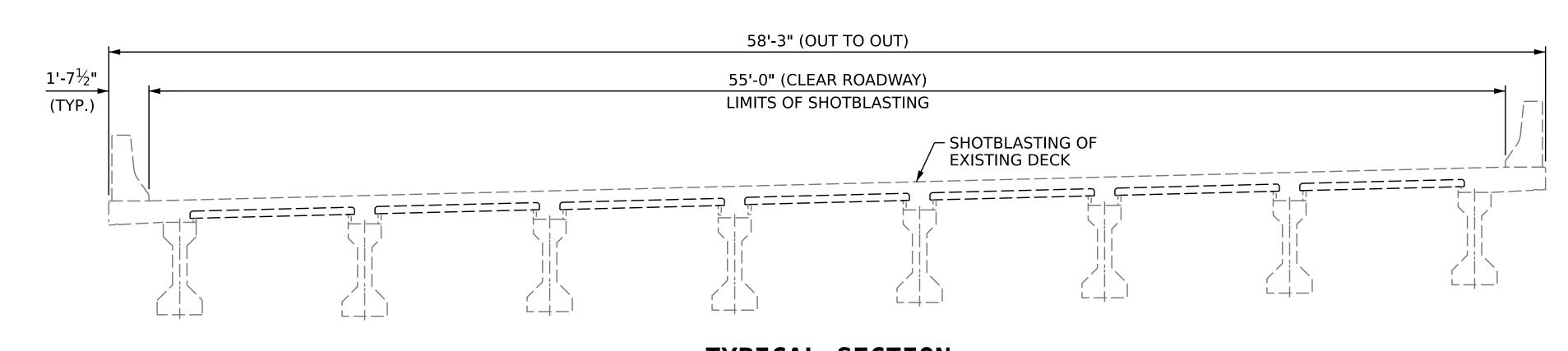
BRIDGE ORIENTATION CONFORMS TO THE ORIGINAL BRIDGE PLANS.

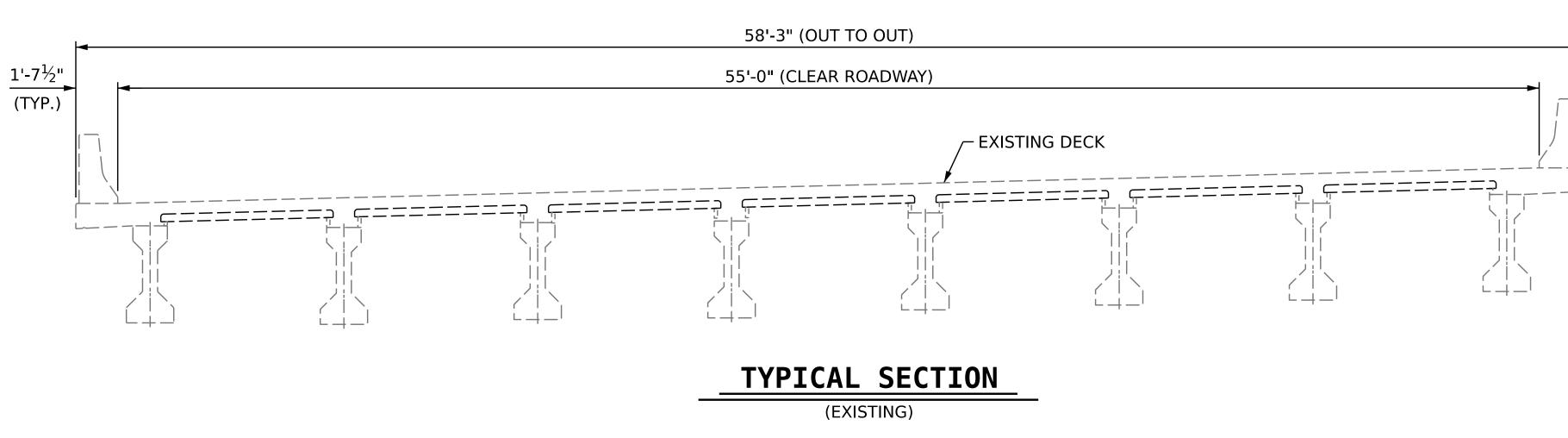
SCOPE OF WORK

- BRIDGE DECK PREPARATION WITH SHOTBLASTING METHODS.
- CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT.
- APPLY SILANE DECK TREATMENT.
- REMOVE EXISTING ELASTOMERIC CONCRETE, ARMOR, AND JOINT MATERIAL.
- RECONSTRUCT BRIDGE JOINTS WITH ELASTOMERIC CONCRETE AND INSTALL FOAM JOINT SEALS

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	TH CAROLINA	PROJE]	[-6036	5
	SEAL		RUNS			
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	HIMAN W. ALFORNIN	BRIDG	E NO.	0	90233	
	DocuSigned by:					
	F245838930BF40E 08/01/2023		STA	TE OF NORTH CA	ROLINA	
	WILL CARA	DEPA	RTMENT	OF TRA RALEIGH	NSPORTA	TION
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	SEAL 26445				RAWIN	U
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	DocuSigned by:	MO	RGANCI	REEK TF	RIBUTAR	Y
	P. Korey. Newton 4FFE39D1431B407					
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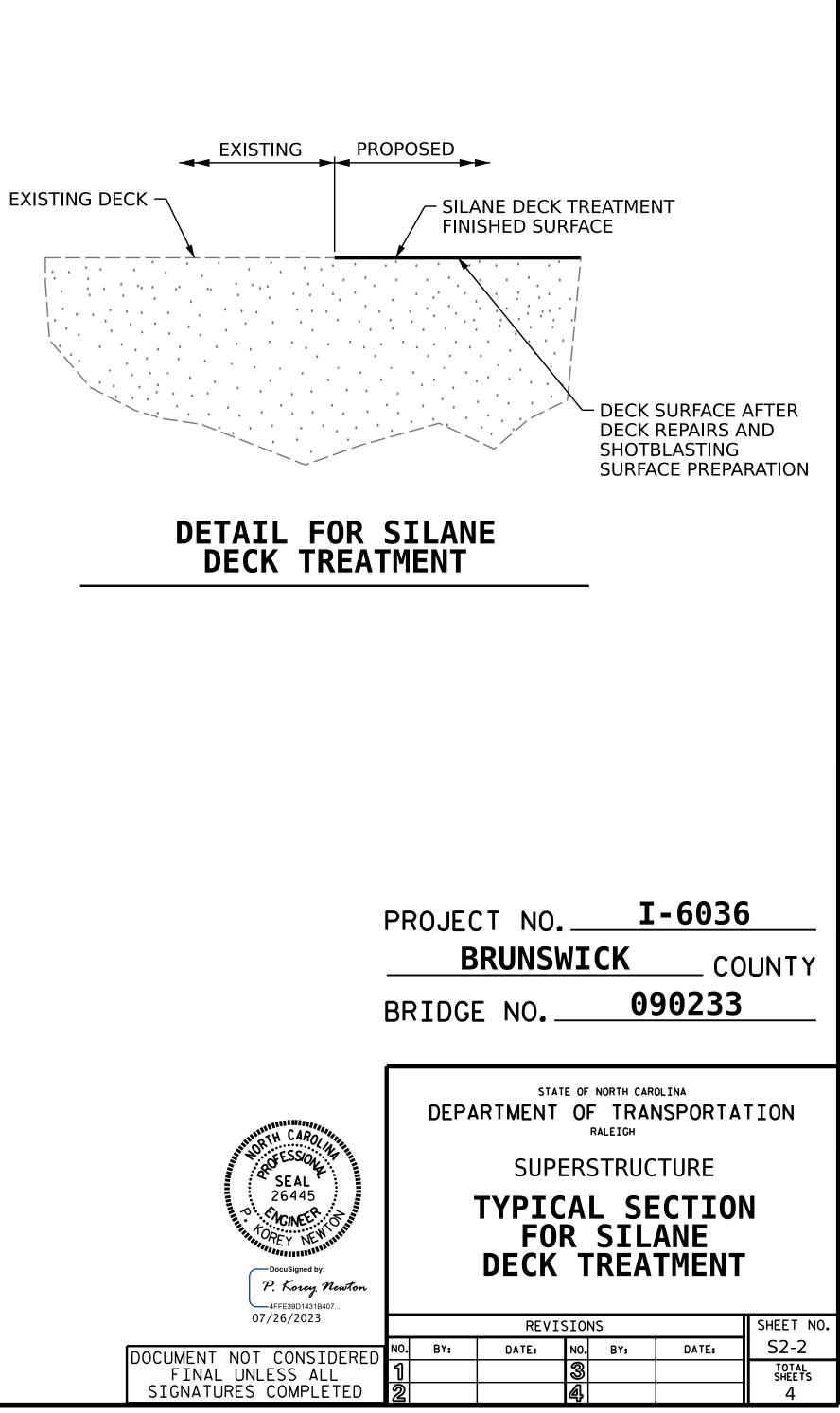


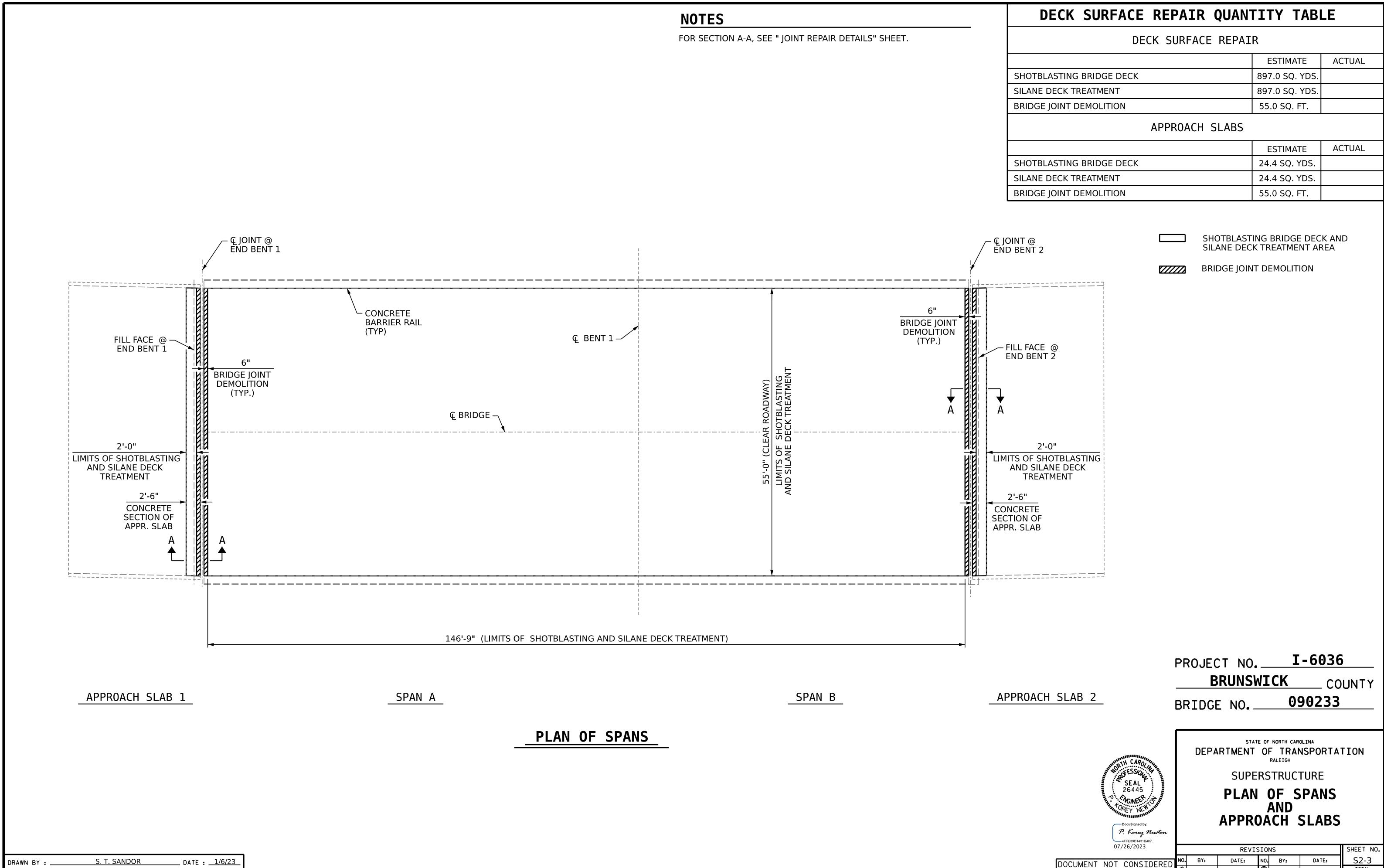
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NOTES

SEE TRANSPORTATION MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF SURFACE PREPARATION AND SILANE DECK TREATMENT.

GIRDERS ARE AASHTO TYPE III PRESTRESSED CONCRETE GIRDERS.





JRAWN BT : _		<u>J. I. JANDON</u>		. :	<u> </u>
CHECKED BY :		W. C. SMITH	DATE	:	1/17/23
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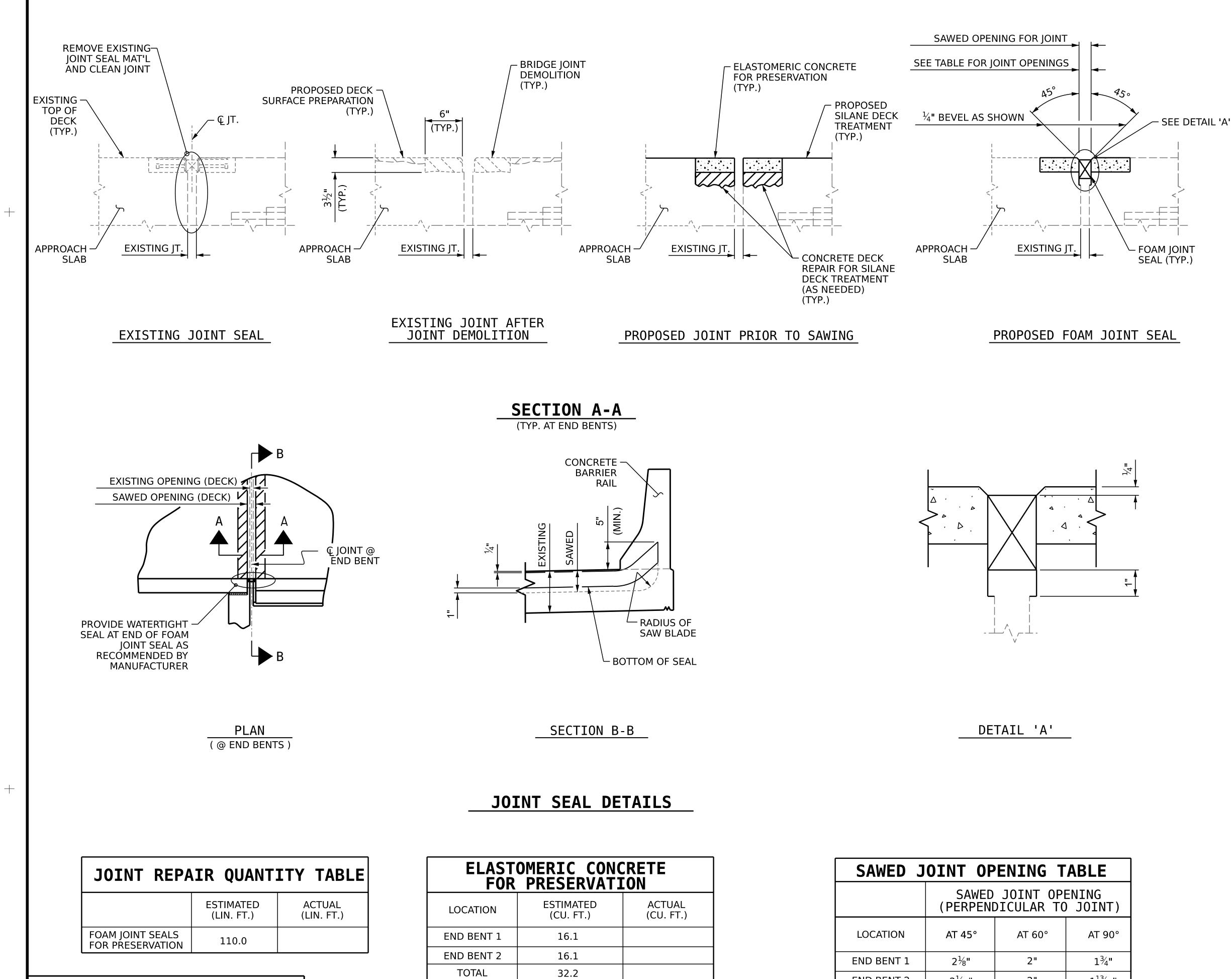
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	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	24.4 SQ. YDS.	
SILANE DECK TREATMENT	24.4 SQ. YDS.	
BRIDGE JOINT DEMOLITION	55.0 SQ. FT.	

	STATE OF NORTH CAROLINA					
CARO/	DEPARTMENT OF TRANSPORTATION RALEIGH					
ESSION A	SUPERSTRUCTURE					
CINEL R. O	PLAN OF SPANS AND APPROACH SLABS					
Korey Newton FE39D1431B407						
26/2023	REVISIONS SHEET					

07/20/2023		REVISIONS				SHEET NO.	
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SIGNATURES COMPLETED	2			4			4



DRAWN BY :	9	S. T. SANDOR	DATE	:	1/9/23
CHECKED BY : _		W. C. SMITH	DATE	:	1/17/23
DESIGN ENGINE	ER OF REC	ORD:	DATE	:	
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ONCRETE ATION				
)	ACTUAL (CU. FT.)			

SAWED J	OINT OP	ENING T	ABLE
	-	JOINT OPI DICULAR TO	-
LOCATION	AT 45°	AT 60°	AT 90°
END BENT 1	2 ¹ ⁄ ₈ "	2"	1¾"
END BENT 2	2 ¹ ⁄ ₁₆ "	2"	1 ¹³ ⁄16"

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 ACCOMODATE 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.

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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

QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATÉRIAL OR ELASTOMERIC CONCRETE SHALL BE REASONABLY FLAT AND LEVEL. THE ENGINEER SHALL DETERMINE ACCEPTABILITY OF THE SURFACE.

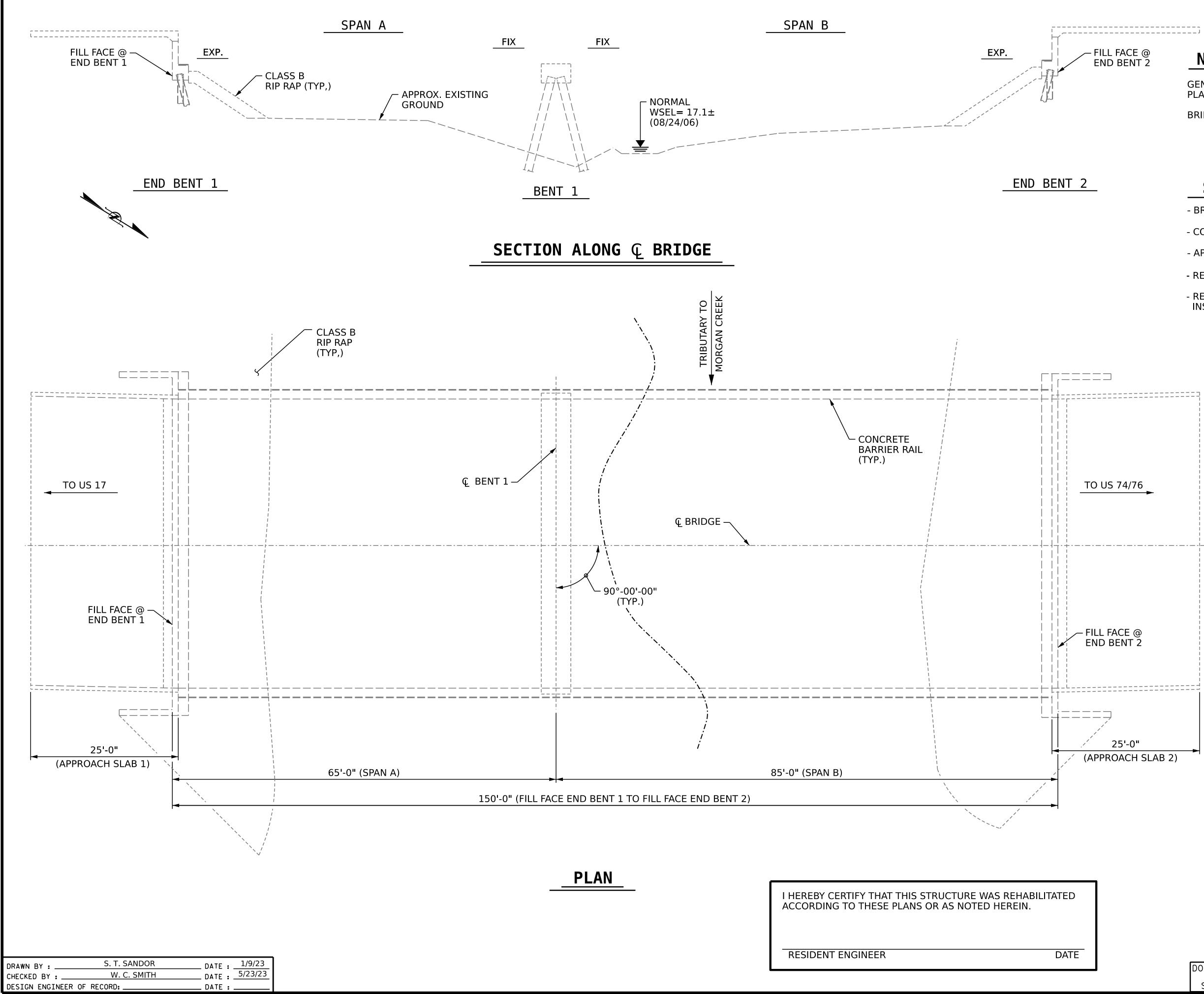
FOR EXCAVATION BELOW THE BOTTOM OF PLANNED JOINT DEMOLITION, CONCRETE FOR DECK REPAIR SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOWN.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT, SEE SPECIAL PROVISIONS.

	PROJEC	T NO.	I	-6036)
	B	RUNSV	VICK	CO	UNTY
	BRIDGE	E NO	0	90233	
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					TION
SEAL 26445			NT RE DETAII		
<i>P. Korey Newton</i> 4FFE39D1431B407 07/26/2023		DEVIS	SIONS		SHEET NO.
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SIGNATURES COMPLETED	2		4		4



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NOTES

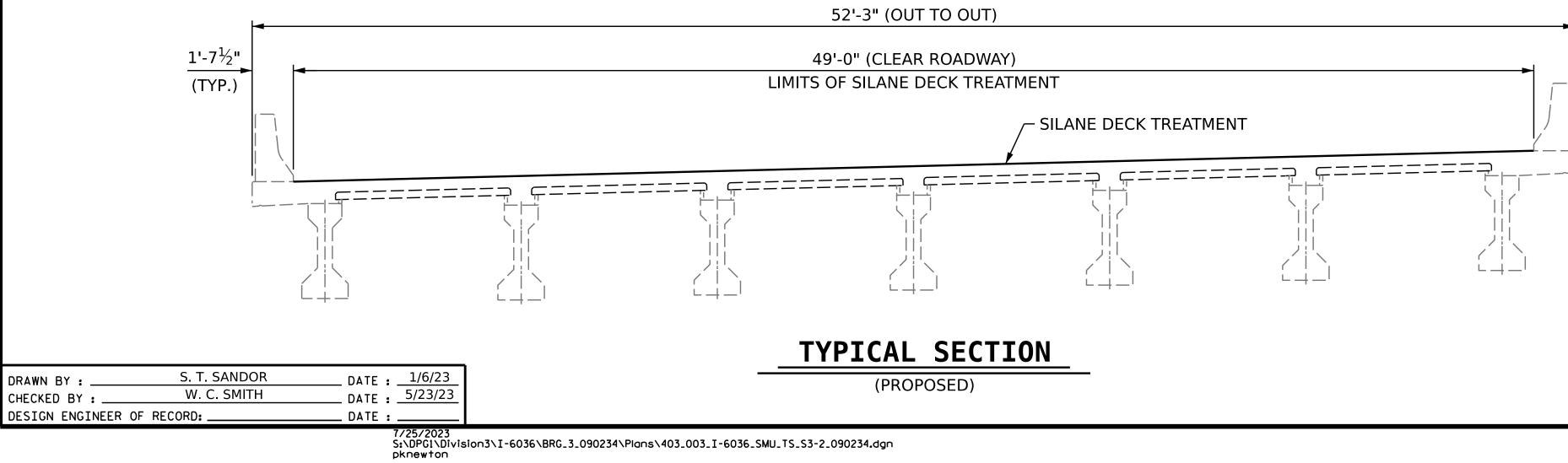
GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 05/05/2021.

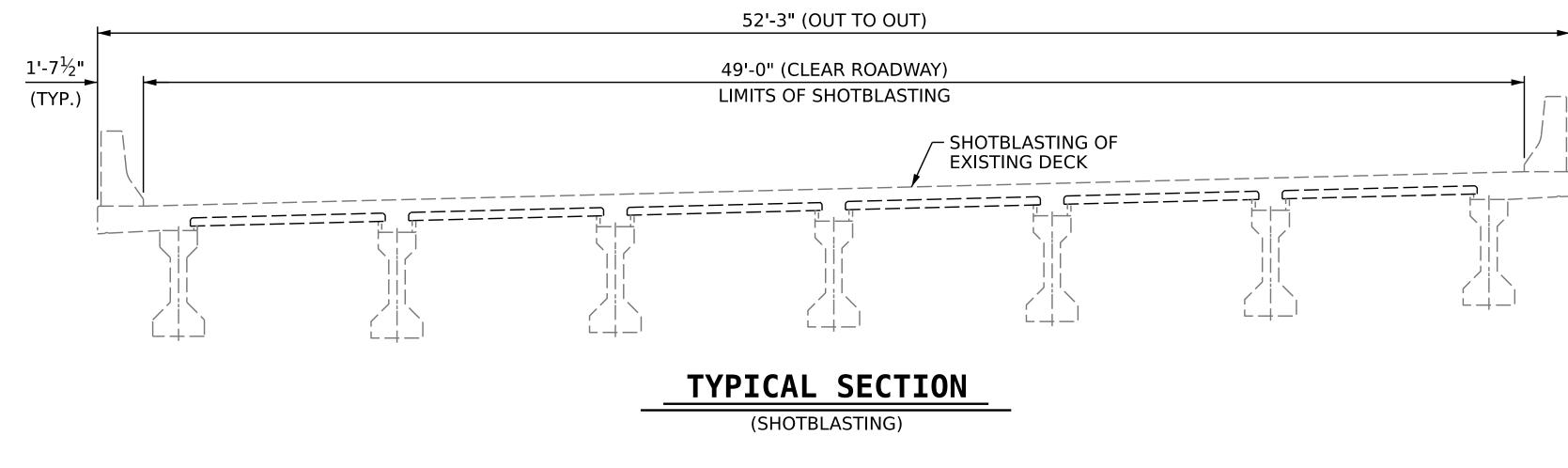
BRIDGE ORIENTATION CONFORMS TO THE ORIGINAL BRIDGE PLANS.

SCOPE OF WORK

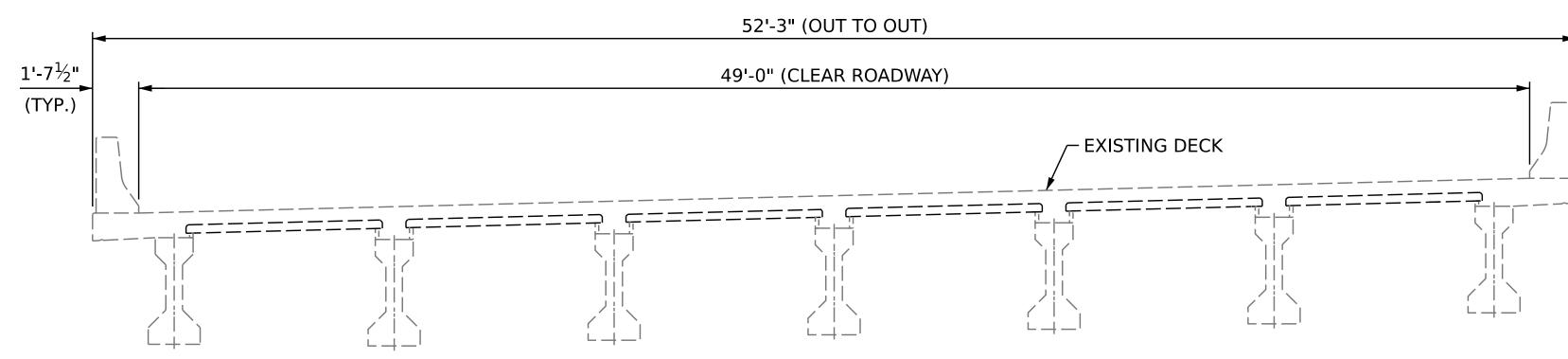
- BRIDGE DECK PREPARATION WITH SHOTBLASTING METHODS.
- CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT.
- APPLY SILANE DECK TREATMENT.
- REMOVE EXISTING ELASTOMERIC CONCRETE, ARMOR, AND JOINT MATERIAL.
- RECONSTRUCT BRIDGE JOINTS WITH ELASTOMERIC CONCRETE AND INSTALL FOAM JOINT SEALS

AP 2)	PROJECT NO. I-6	036
LAB 2)	BRUNSWICK	
The W. Alternation	BRIDGE NO0902	.34
DocuSigned by:	STATE OF NORTH CAROLINA	
TH CAROLAND	DEPARTMENT OF TRANSPO RALEIGH	
SEAL 26445	GENERAL DRAW	ING
DocuSigned by:	FOR BRIDGE ON I-140 EBL OVER MORGAN CREEK TRIBU	ξ
P. Korey. Newton 4FFE39D1431B407 07/26/2023		SHEET NO.
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TYPICAL SECTION



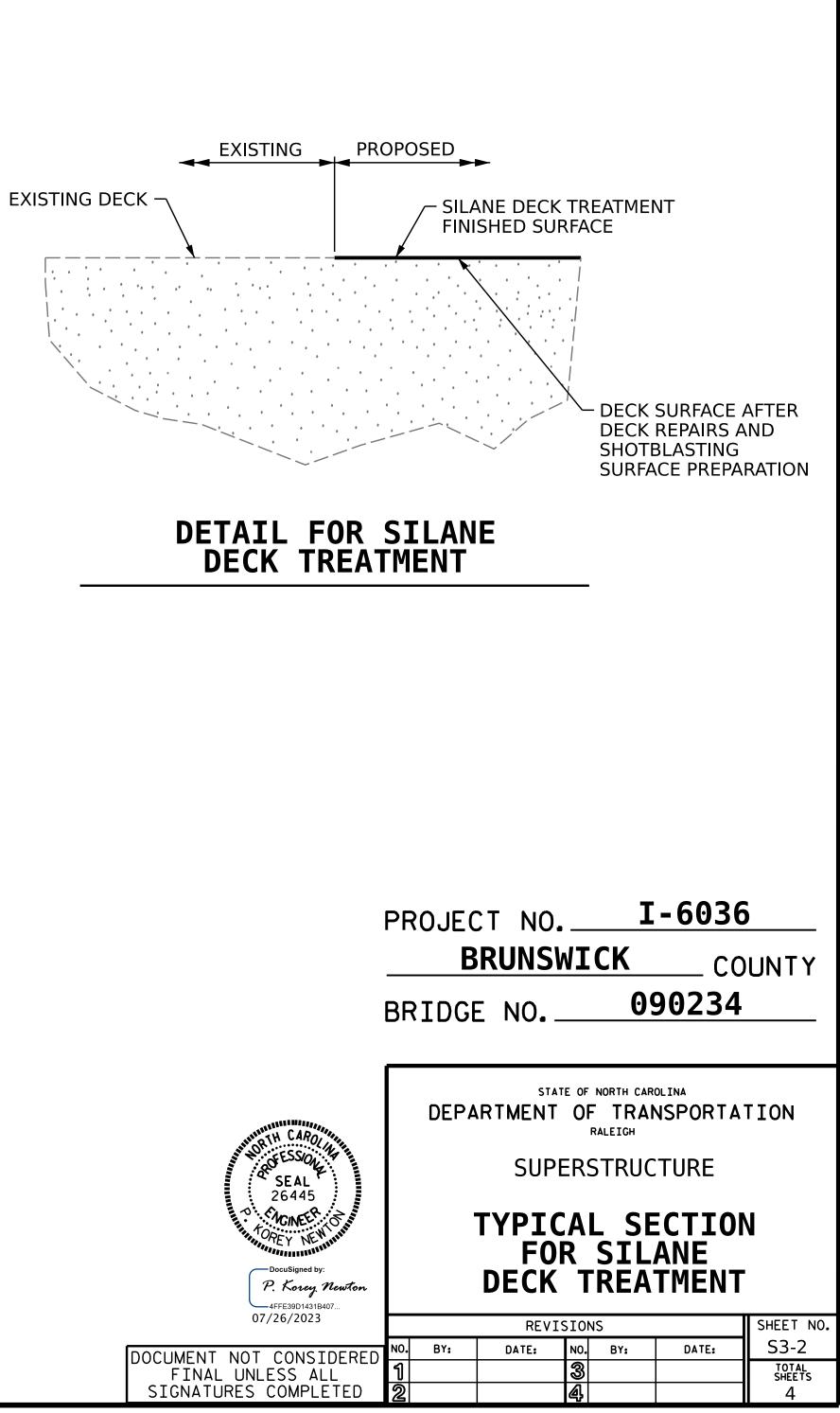
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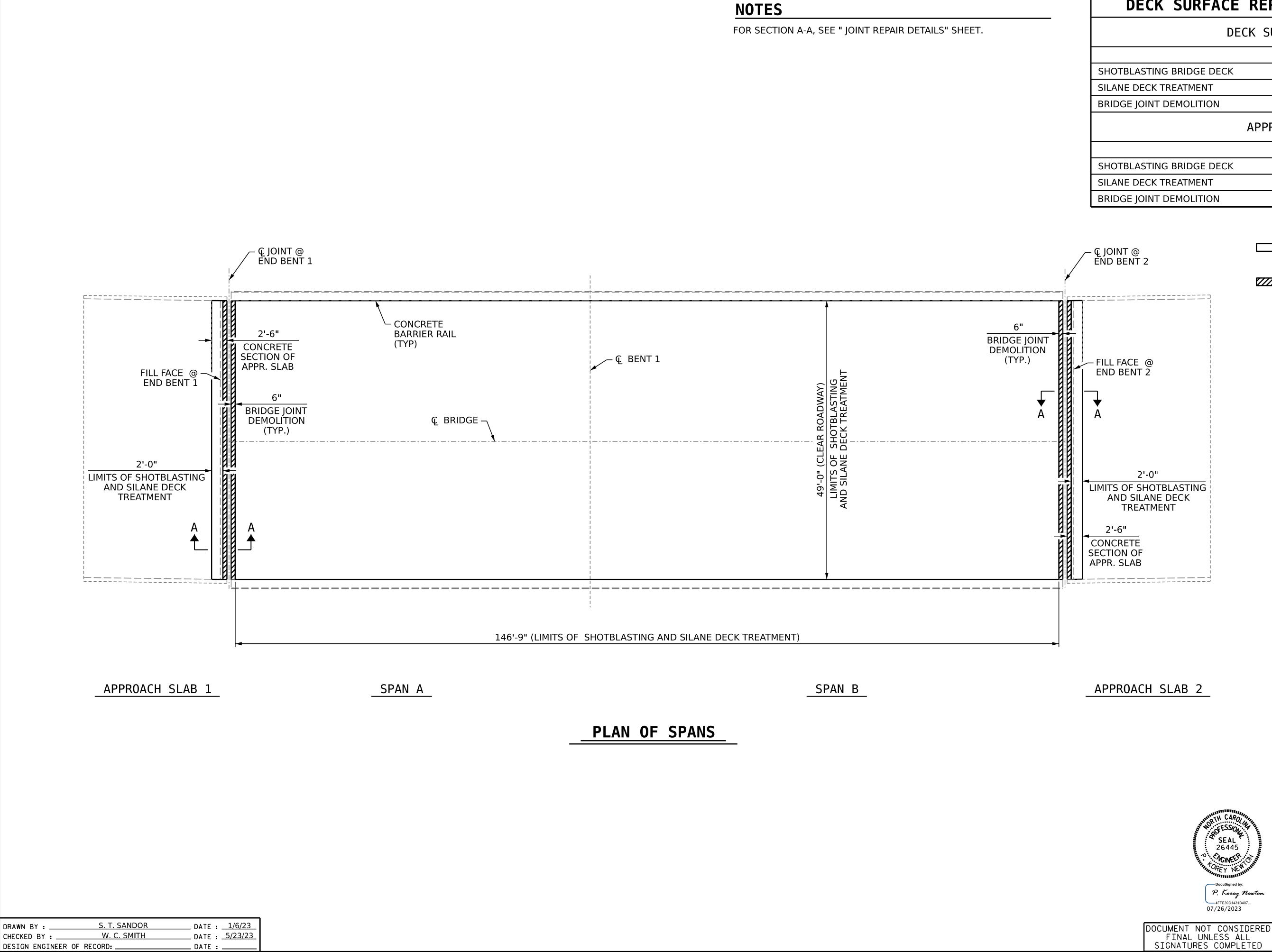
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NOTES

SEE TRANSPORTATION MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF SURFACE PREPARATION AND SILANE DECK TREATMENT.

GIRDERS ARE AASHTO TYPE III PRESTRESSED CONCRETE GIRDERS.





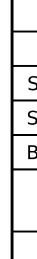
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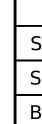
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DESIGN ENGINEER OF RECORD: _





DECK SURFACE REPAIR QUANTITY TABLE DECK SURFACE REPAIR ESTIMATE ACTUAL

	LJIIMAIL	ACTUAL		
SHOTBLASTING BRIDGE DECK	799.0 SQ. YDS.			
SILANE DECK TREATMENT	799.0 SQ. YDS.			
BRIDGE JOINT DEMOLITION	49.0 SQ. FT.			

APPROACH SLABS

	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	21.8 SQ. YDS.	
SILANE DECK TREATMENT	21.8 SQ. YDS.	
BRIDGE JOINT DEMOLITION	49.0 SQ. FT.	



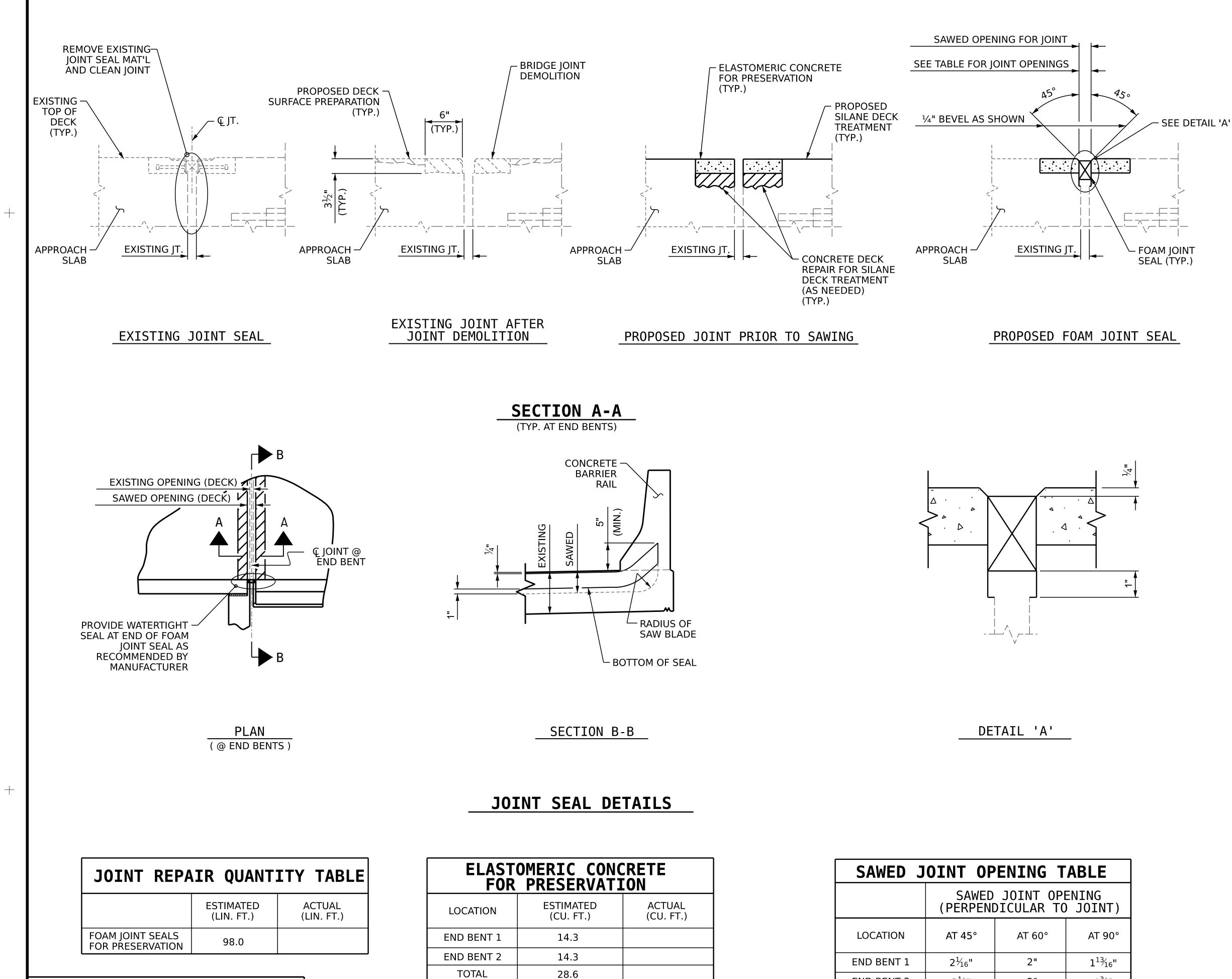
SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT AREA



PROJECT NO. I-6036 BRUNSWICK _ COUNTY BRIDGE NO. 090234 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE **° SEAL** 26445 PLAN OF SPANS AND APPROACH SLABS ACINE S DocuSigned by P. Korey Newton 4FFE39D1431B407... 07/26/2023 SHEET NO. REVISIONS NO. BY: DATE: DATE: BY:

S3-3

TOTAL SHEETS



DRAWN BY :	S	5. T. SANDOR	DATE	: _	1/6/23
CHECKED BY :		W. C. SMITH	DATE	: _	5/23/23
DESIGN ENGINEE	R OF RECO	DRD:	DATE	:	
				7	/25/2023

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ONCRETE ATION				
)	ACTUAL (CU. FT.)			

SAWED J	OINT OP	ENING T	ABLE
		JOINT OPI DICULAR TO	
LOCATION	AT 45°	AT 60°	AT 90°
END BENT 1	2 ¹ ⁄ ₁₆ "	2"	1 ¹³ ⁄16"
END BENT 2	2 ¹ ⁄8"	2"	1¾"

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 ACCOMODATE 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 JOINTS IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINTS SHALL BE WATER TIGHT.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

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

QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

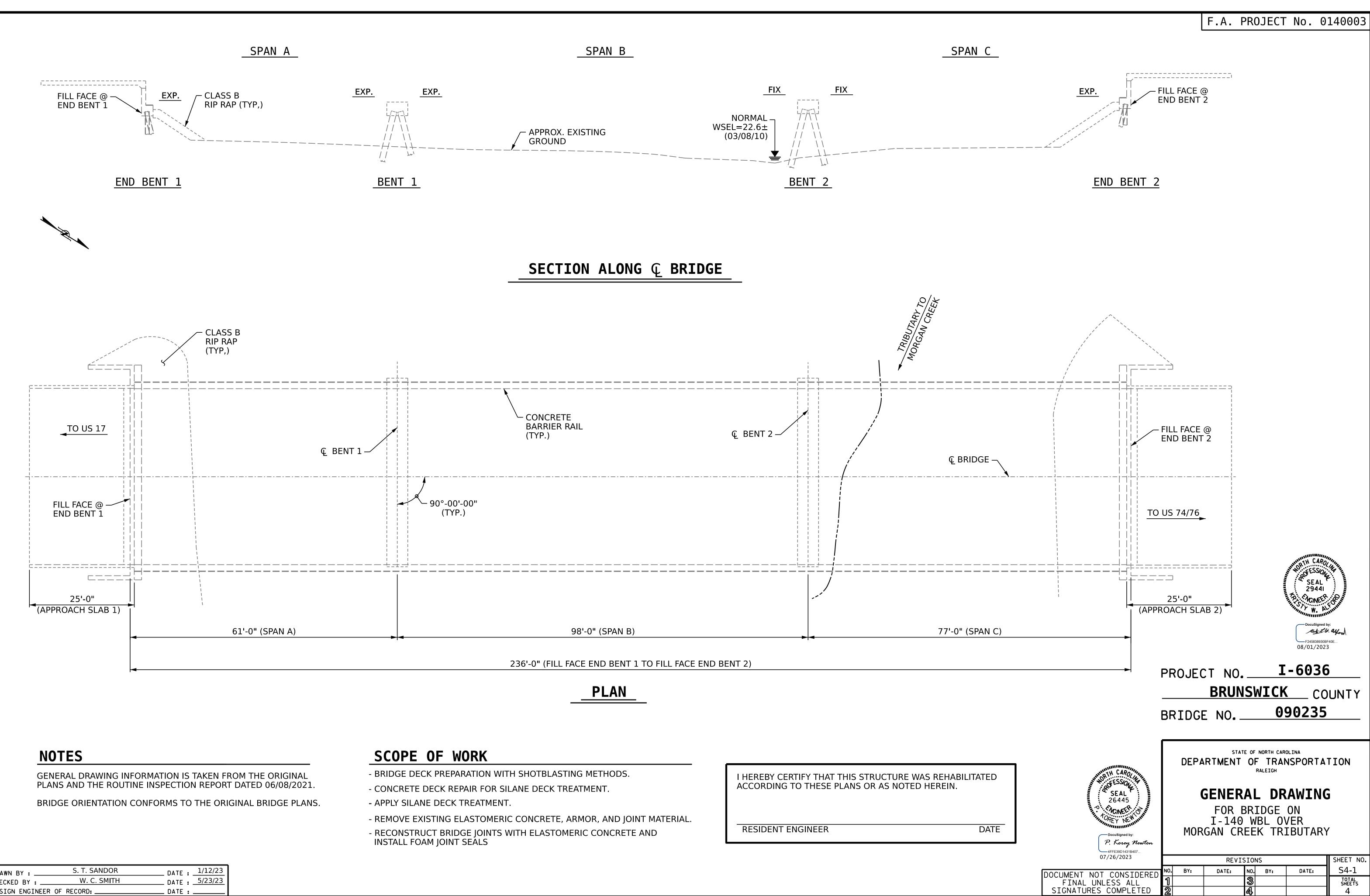
FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATÉRIAL OR ELASTOMERIC CONCRETE SHALL BE REASONABLY FLAT AND LEVEL. THE ENGINEER SHALL DETERMINE ACCEPTABILITY OF THE SURFACE.

FOR EXCAVATION BELOW THE BOTTOM OF PLANNED JOINT DEMOLITION, CONCRETE FOR DECK REPAIR SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOWN.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

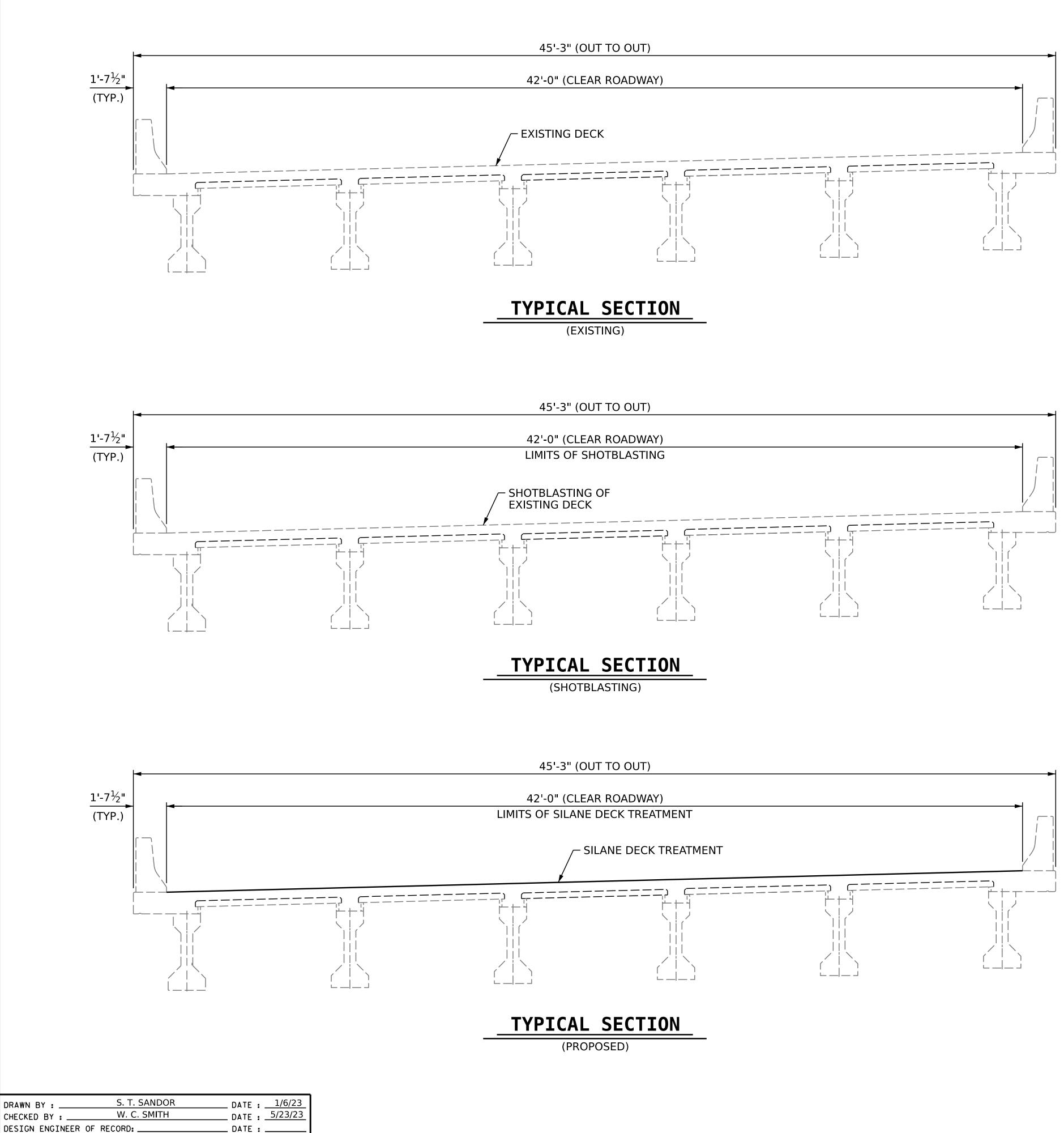
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	BR	IDGE	NO		0	90234	
NUMBER OF CAROLINA	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						
SEAL 26445 CONEEP TOREY NEW MUNICIPALITY DocuSigned by:					' RE TAII	PAIR _S	
P. Korey. Newton 4FFE39D1431B407							
07/26/2023		.	REVIS				SHEET NO.
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DRAWN BY :	S. T. SANDOR	DATE :	1/12/23
CHECKED BY :	W. C. SMITH	DATE :	5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :	:

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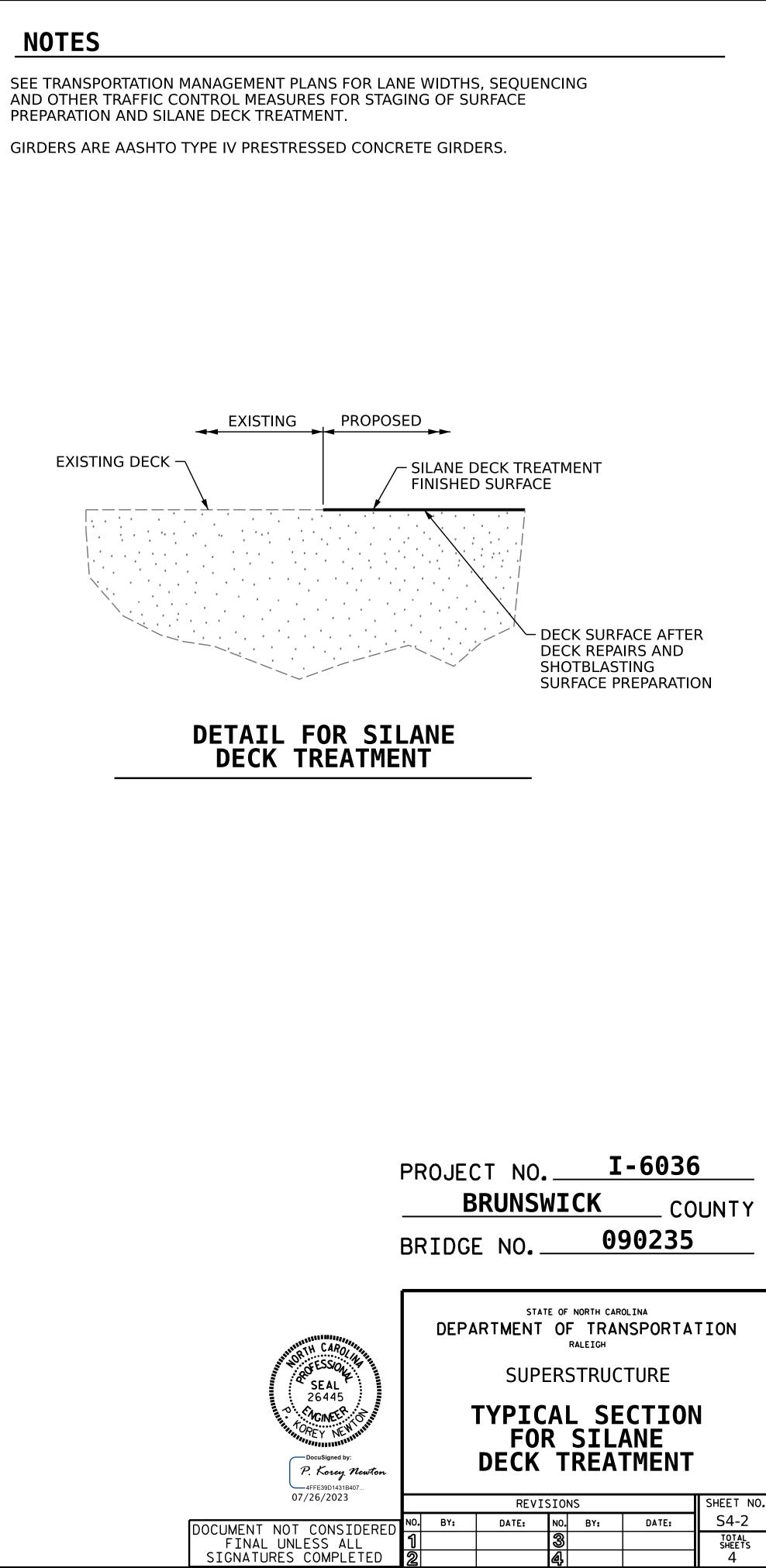
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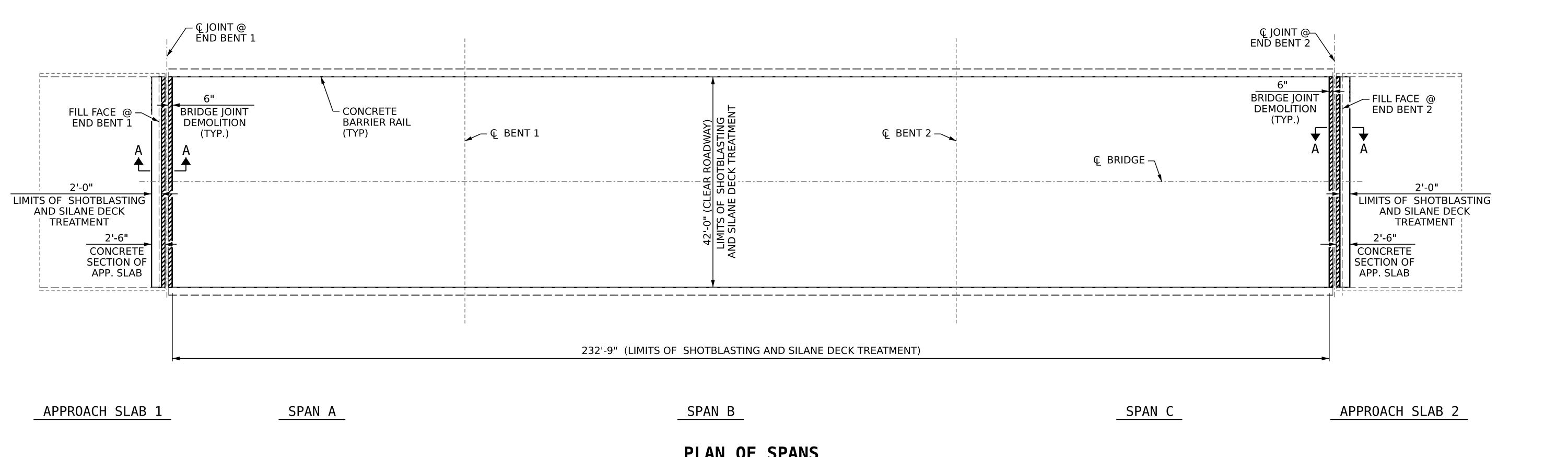


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CHECKED BY :	W. C. SMITH	DATE : <u>5/23/23</u>
DESIGN ENGINEER	OF RECORD:	DATE :
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NOTES

FOR SECTION A-A, SEE " JOINT REPAIR DETAILS" SHEET.

	ESTIMATE	ACTUAL		
SHOTBLASTING BRIDGE DECK	1,086.2 SQ. YDS.			
SILANE DECK TREATMENT	1,086.2 SQ. YDS.			
BRIDGE JOINT DEMOLITION	42.0 SQ. FT.			
APPROACH SLABS				
	ESTIMATE	ACTUAL		
SHOTBLASTING BRIDGE DECK	18.7 SQ. YDS.			
SILANE DECK TREATMENT	18.7 SQ. YDS.			
BRIDGE JOINT DEMOLITION	42.0 SQ. FT.			

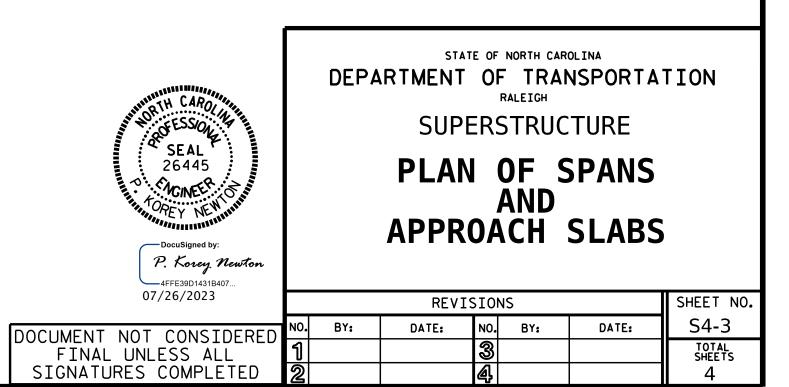
PLAN OF SPANS

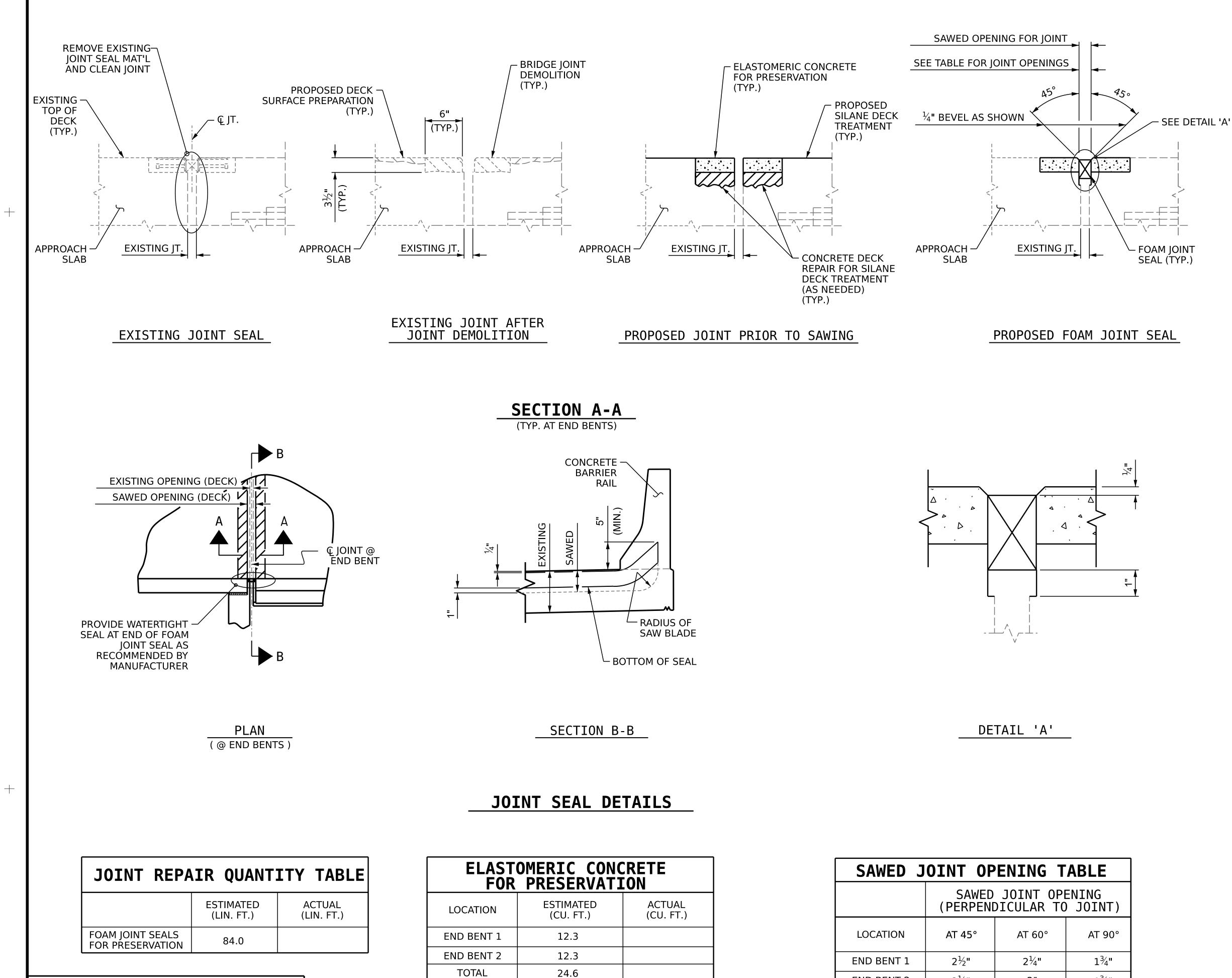
DECK SURFACE REPAIR QUANTITY TABLE



BRIDGE JOINT DEMOLITION

PROJECT NO. **I-6036** BRUNSWICK COUNTY BRIDGE NO. 090235





DRAWN BY :	S. T. SANDOR	DATE : 1/12/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEE	R OF RECORD:	DATE :
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CONCRETE ATION				
C	ACTUAL (CU. FT.)			

SAWED J	OINT OP	ENING T	ABLE			
	SAWED JOINT OPENING (PERPENDICULAR TO JOINT)					
LOCATION	AT 45°	AT 60°	AT 90°			
END BENT 1	2 ¹ ⁄ ₂ "	2 ¹ ⁄4"	1¾"			
END BENT 2	2 ¹ ⁄ ₈ "	2"	1¾"			

NOTES

FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE OVERLAY OR SEALANT WORK IS COMPLETE.

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QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

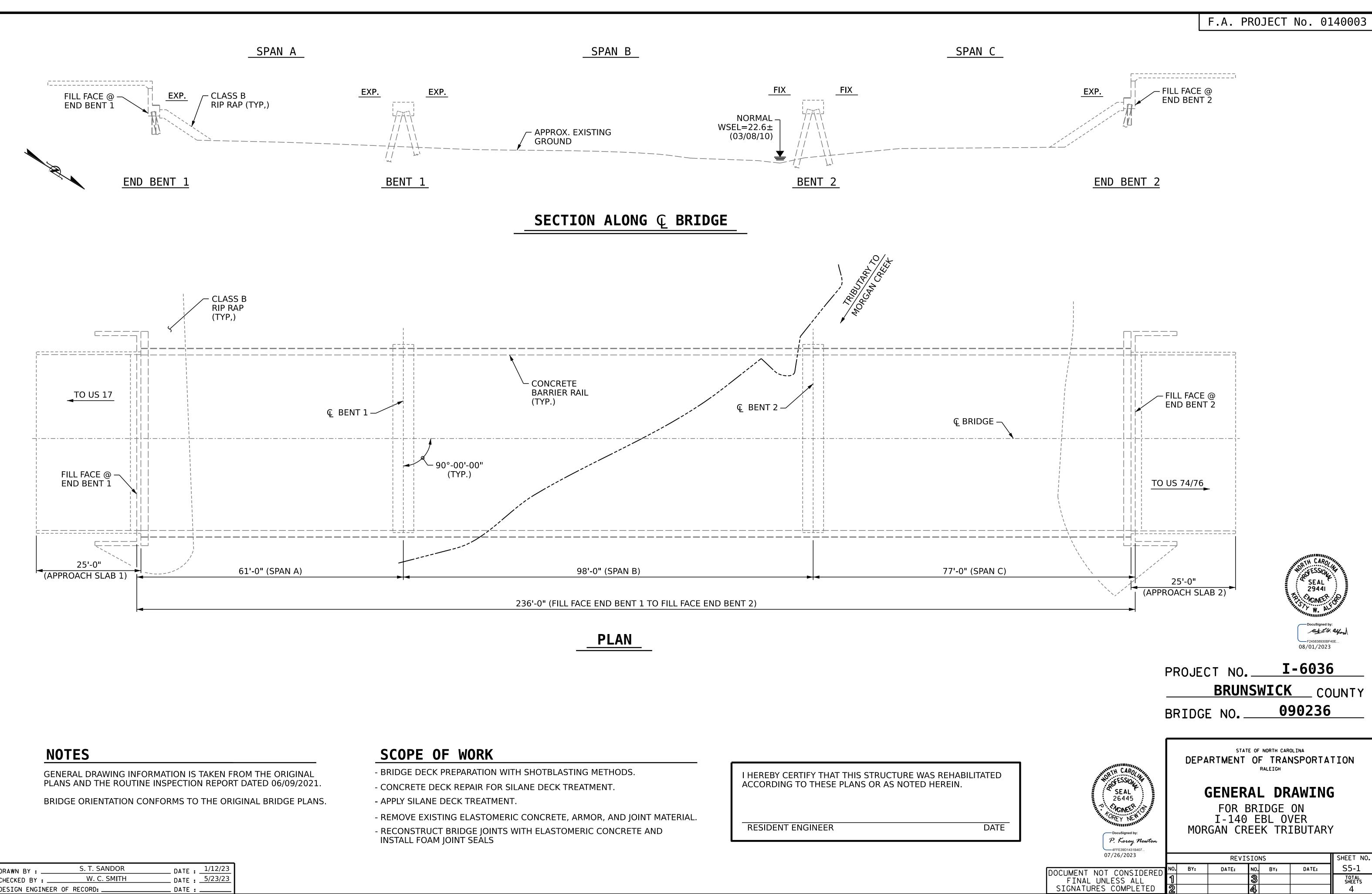
FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATÉRIAL OR ELASTOMERIC CONCRETE SHALL BE REASONABLY FLAT AND LEVEL. THE ENGINEER SHALL DETERMINE ACCEPTABILITY OF THE SURFACE.

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FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

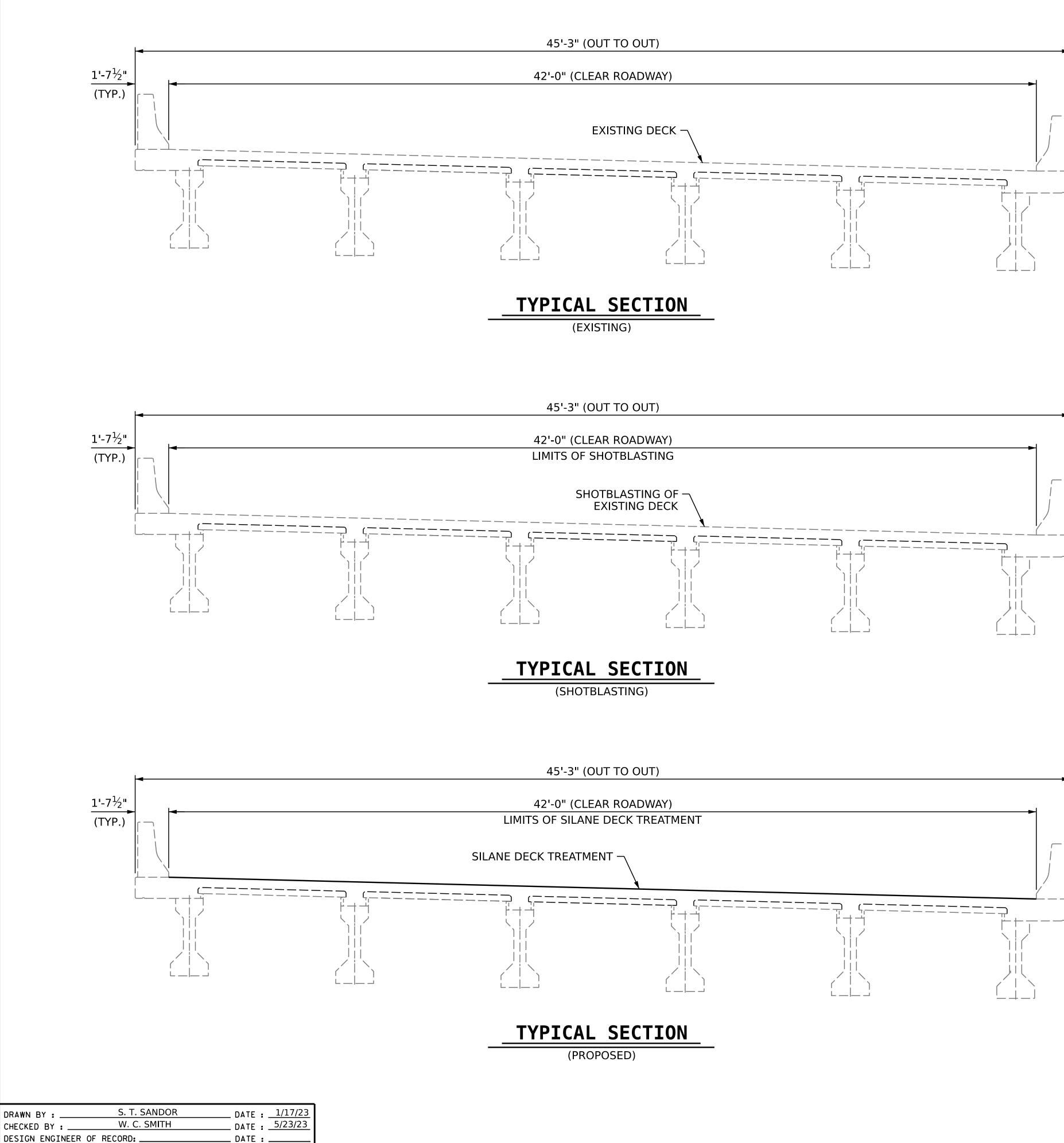
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		B	RUNSV	I	CK	CO	UNTY
	BF	RIDGE	NO		09	90235	
NUMBER OF CAROLINA	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				TION		
BEAL 26445 CONECTION Docusigned by:	JOINT REPAIR DETAILS						
<i>P. Korey Newton</i> 4FFE39D1431B407 07/26/2023			DEVIS	TON	c		SHEET NO.
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SIGNATURES COMPLETED	2			A			4



DRAWN BY :	S. T. SANDOR	DATE : 1/12/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DRAWN BY : CHECKED BY : DESIGN ENGINEER	OF RECORD:	DATE :

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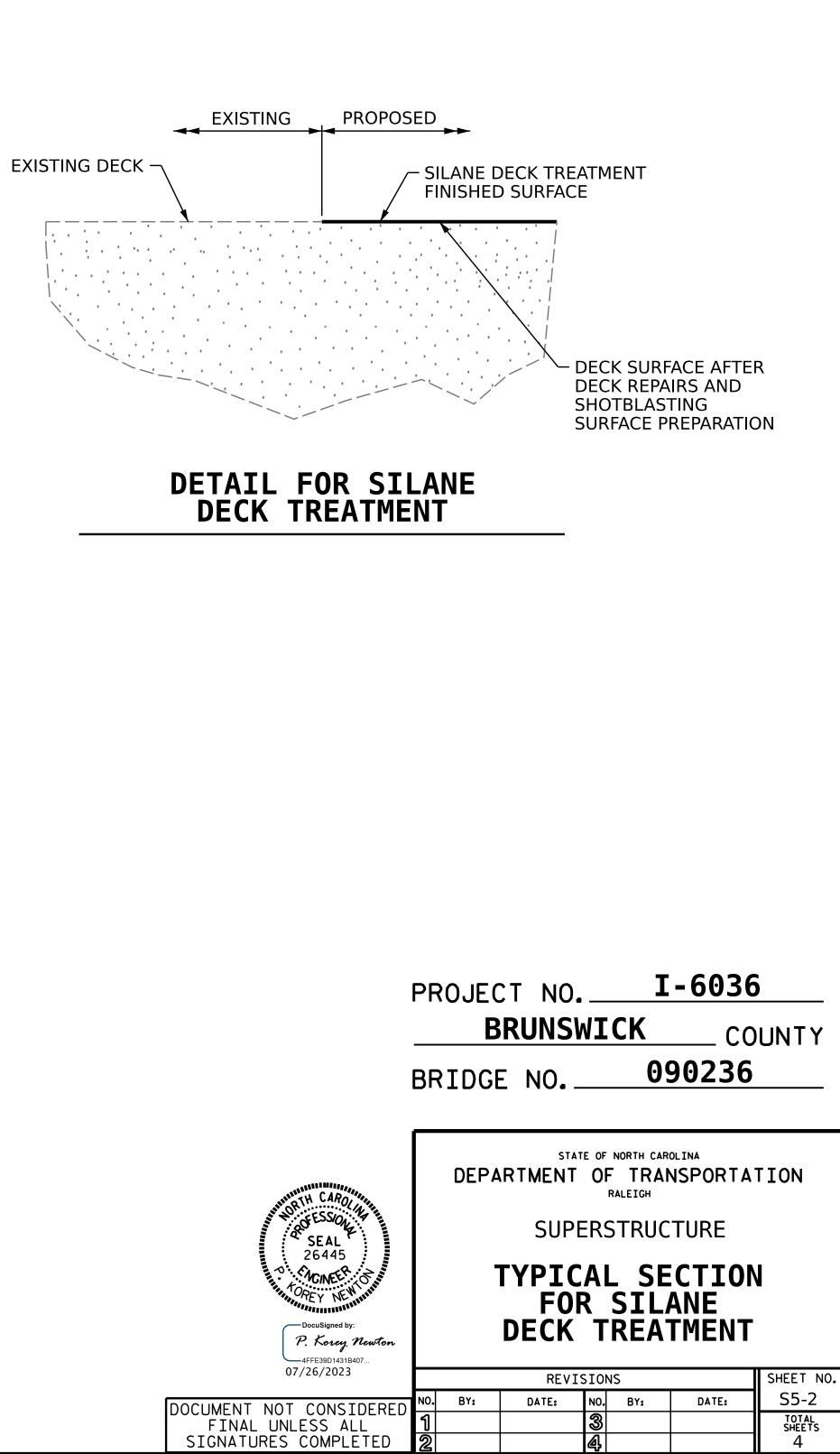
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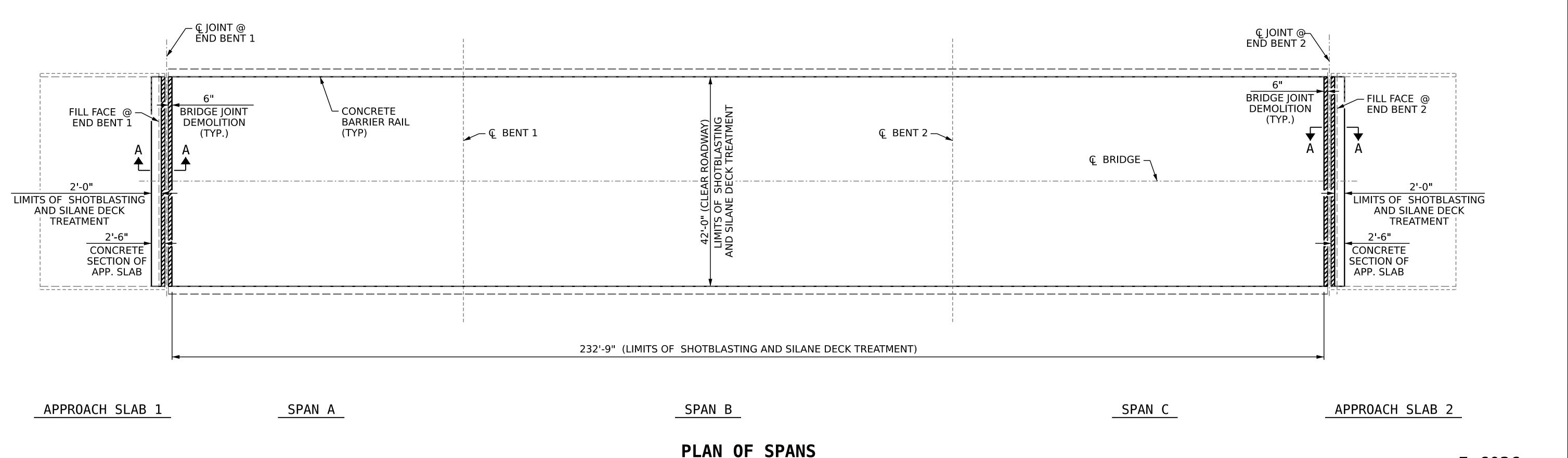
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NOTES

SEE TRANSPORTATION MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF SURFACE PREPARATION AND SILANE DECK TREATMENT.

GIRDERS ARE AASHTO TYPE IV PRESTRESSED CONCRETE GIRDERS.



DRAWN BY :	S. T. SANDOR	DATE : _ 1/17/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :

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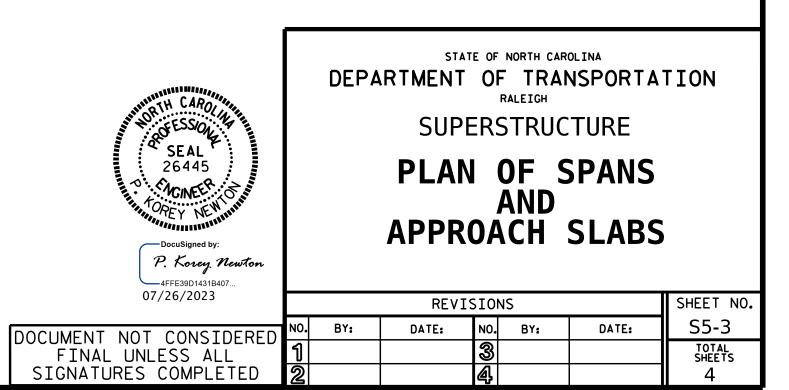
FOR SECTION A-A, SEE " JOINT REPAIR DETAILS" SHEET.

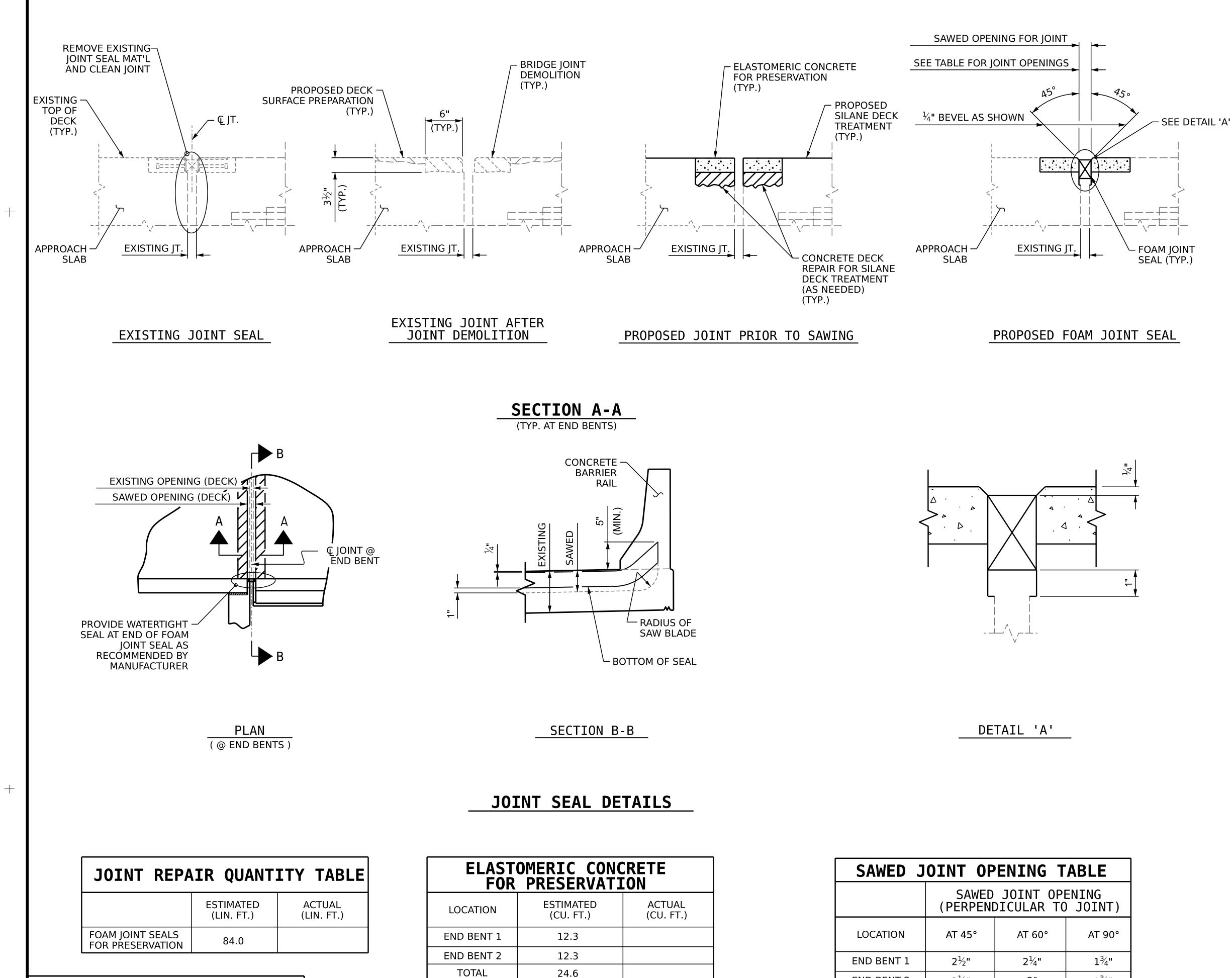
SHOTBLASTING BRIDGE DECK SILANE DECK TREATMENT BRIDGE JOINT DEMOLITION APPROACH SLABS SHOTBLASTING BRIDGE DECK	1,086.2 SQ. YDS. 1,086.2 SQ. YDS. 42.0 SQ. FT. ESTIMATE 18.7 SQ. YDS.	ACTUAL		
BRIDGE JOINT DEMOLITION APPROACH SLABS SHOTBLASTING BRIDGE DECK	42.0 SQ. FT. ESTIMATE	ACTUAL		
APPROACH SLABS SHOTBLASTING BRIDGE DECK	ESTIMATE	ACTUAL		
SHOTBLASTING BRIDGE DECK		ACTUAL		
		ACTUAL		
	18.7 SQ. YDS.			
SILANE DECK TREATMENT	18.7 SQ. YDS.			
BRIDGE JOINT DEMOLITION	42.0 SQ. FT.			
SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT AREA BRIDGE JOINT DEMOLITION				

PLAN OF SPANS

DECK SURFACE REPAIR QUANTITY TABLE

PROJECT NO. **I-6036** BRUNSWICK COUNTY BRIDGE NO. 090236





DRAWN BY :	S. T. SANDOR	DATE : 1/17/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :
		7/25/2023

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CONCRETE ATION				
C	ACTUAL (CU. FT.)			

SAWED J	OINT OP	ENING T	ABLE			
	SAWED JOINT OPENING (PERPENDICULAR TO JOINT)					
LOCATION	AT 45°	AT 60°	AT 90°			
END BENT 1	2 ¹ ⁄ ₂ "	2 ¹ ⁄4"	1¾"			
END BENT 2	2 ¹ ⁄ ₈ "	2"	1¾"			

NOTES

FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE OVERLAY OR SEALANT WORK IS COMPLETE.

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THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINTS IN LIEU OF SAWING THE JOINT.

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FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

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QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

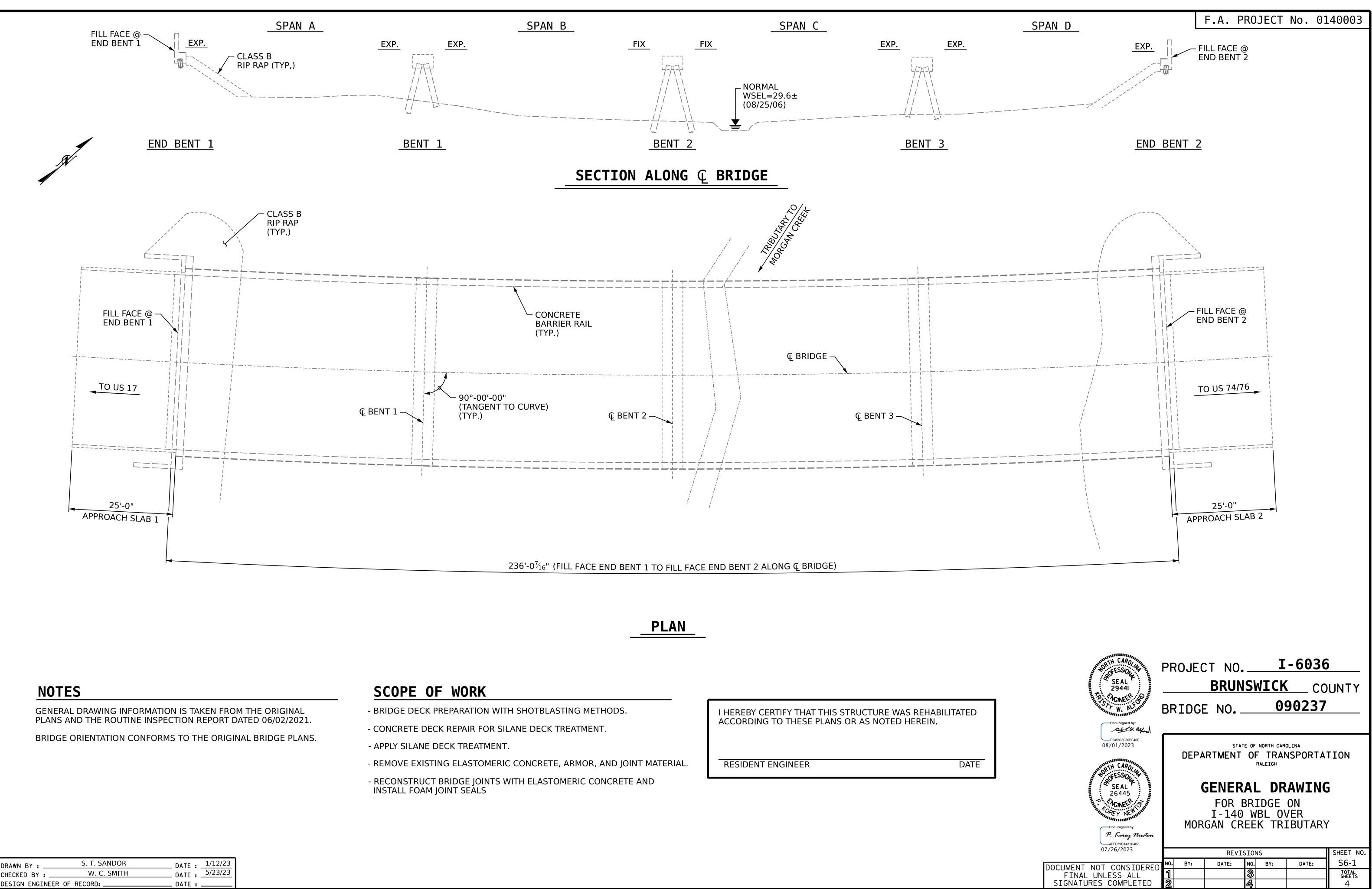
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FOR EXCAVATION BELOW THE BOTTOM OF PLANNED JOINT DEMOLITION, CONCRETE FOR DECK REPAIR SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOWN.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

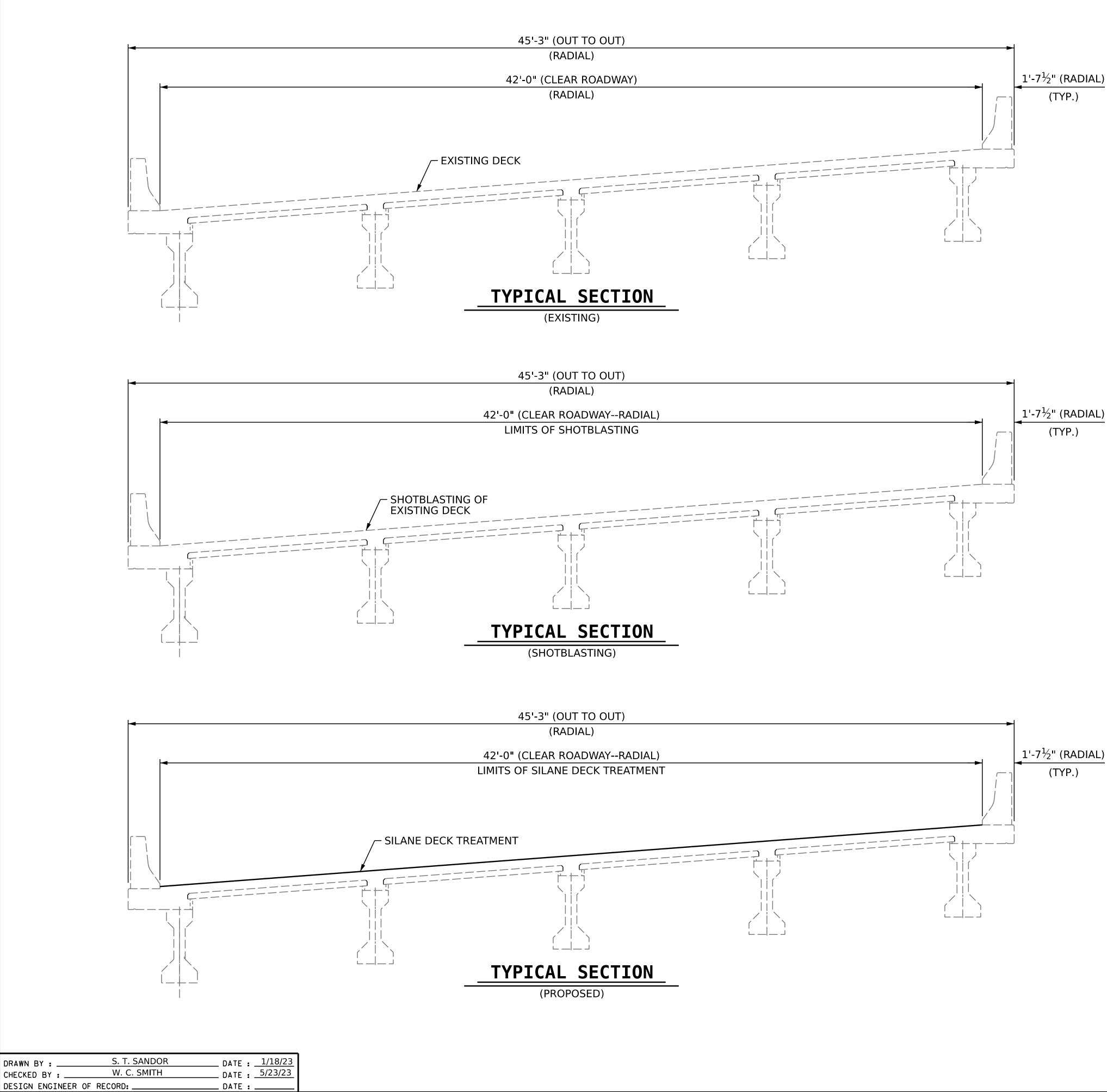
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	BF	RUNSW	ICK	CO	UNTY
	BRIDGE	NO	0	90236	
NUMBER SOLUTION	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
BEAL 26445 CONEER.O	JOINT REPAIR DETAILS				
<i>P. Korey Newton</i> 4FFE39D1431B407 07/26/2023			TONC		
	NO. BY:	REVIS DATE:	IUNS NO. BY:	DATE:	SHEET NO. S5-4
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SIGNATURES COMPLETED	2		<u>a</u> l		4



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DRAWN BY :	S. T. SANDOR	DATE : 1/12/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEE	R OF RECORD:	DATE :





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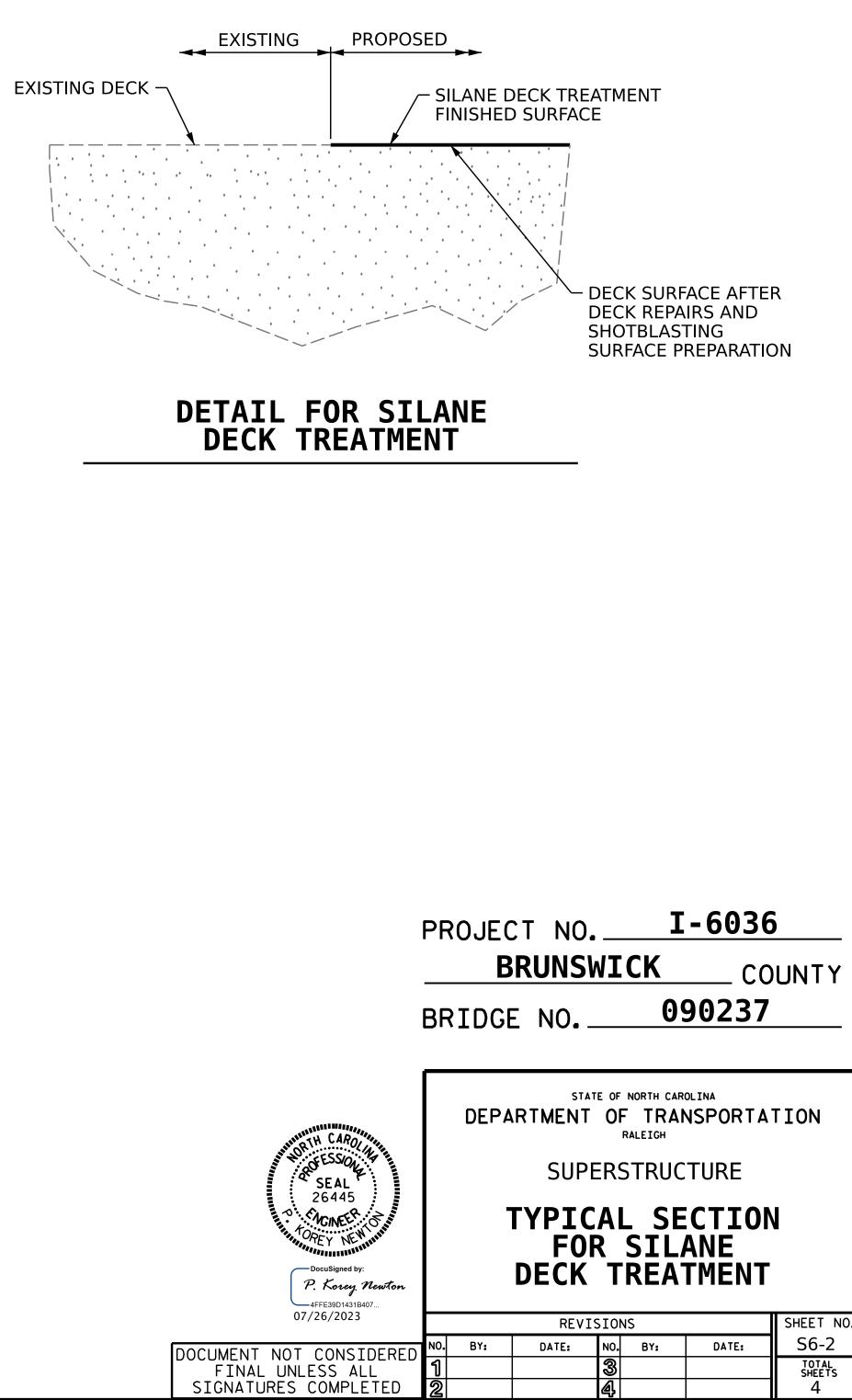




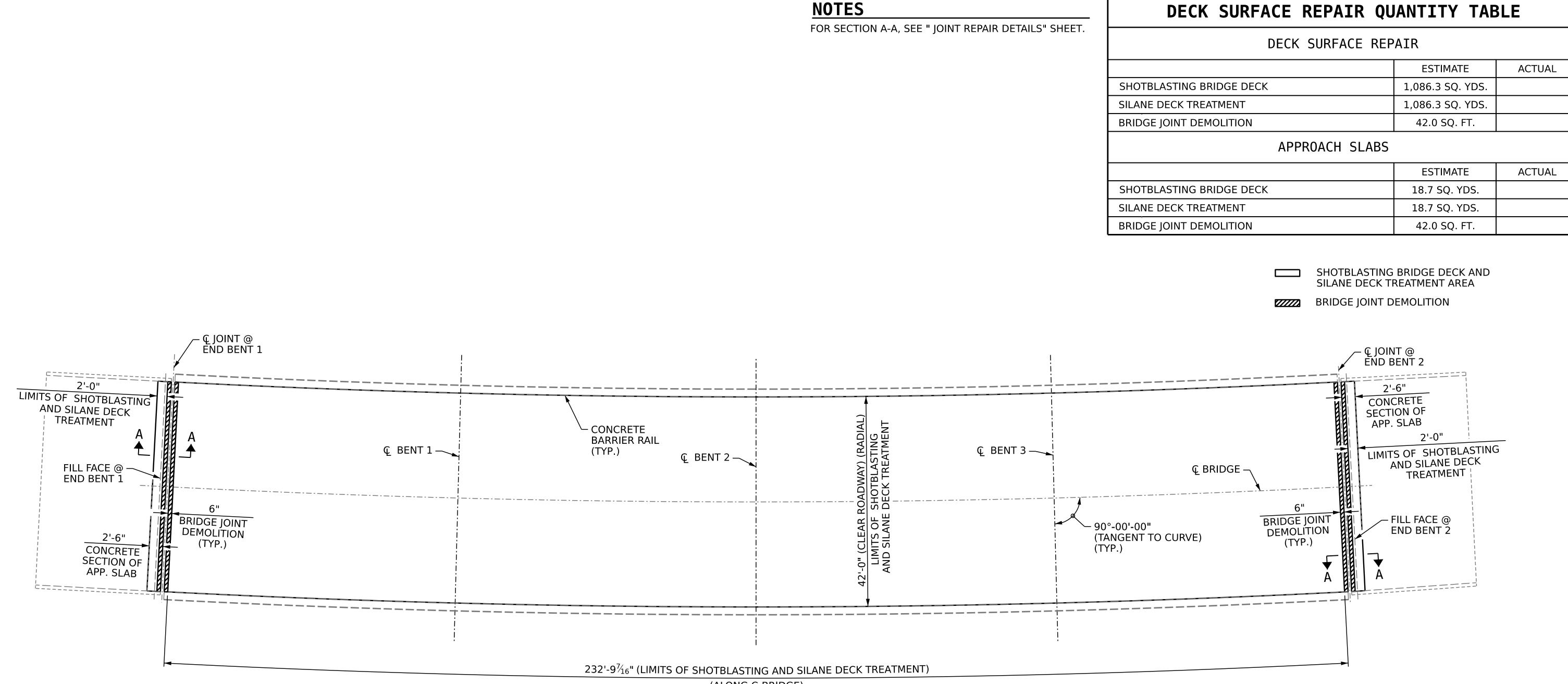
GIRDERS ARE AASHTO TYPE III PRESTRESSED CONCRETE GIRDERS.

1'-7½" (RADIAL)

SEE TRANSPORTATION MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF SURFACE PREPARATION AND SILANE DECK TREATMENT.



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APPROACH SLAB 1

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SPAN A

DRAWN BY :	S. T. SANDOR	DATE :	1/18/23
CHECKED BY :	W. C. SMITH	DATE :	5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :	

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(ALONG @ BRIDGE)

SPAN B

SPAN C

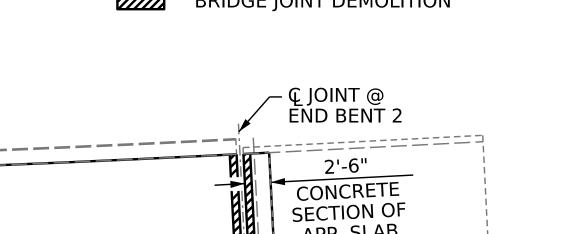
PLAN OF SPANS

DECK SURFACE REPAIR QUANTITY TABLE

	ESTIMATE	ACTUAL
OTBLASTING BRIDGE DECK	1,086.3 SQ. YDS.	
ANE DECK TREATMENT	1,086.3 SQ. YDS.	
DGE JOINT DEMOLITION	42.0 SQ. FT.	
APPROACH SLABS		

	ESTIMATE	ACTUAL
OTBLASTING BRIDGE DECK	18.7 SQ. YDS.	
ANE DECK TREATMENT	18.7 SQ. YDS.	
DGE JOINT DEMOLITION	42.0 SQ. FT.	

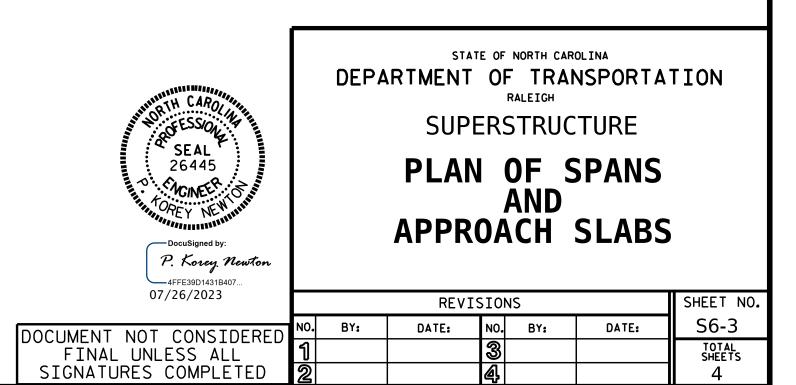


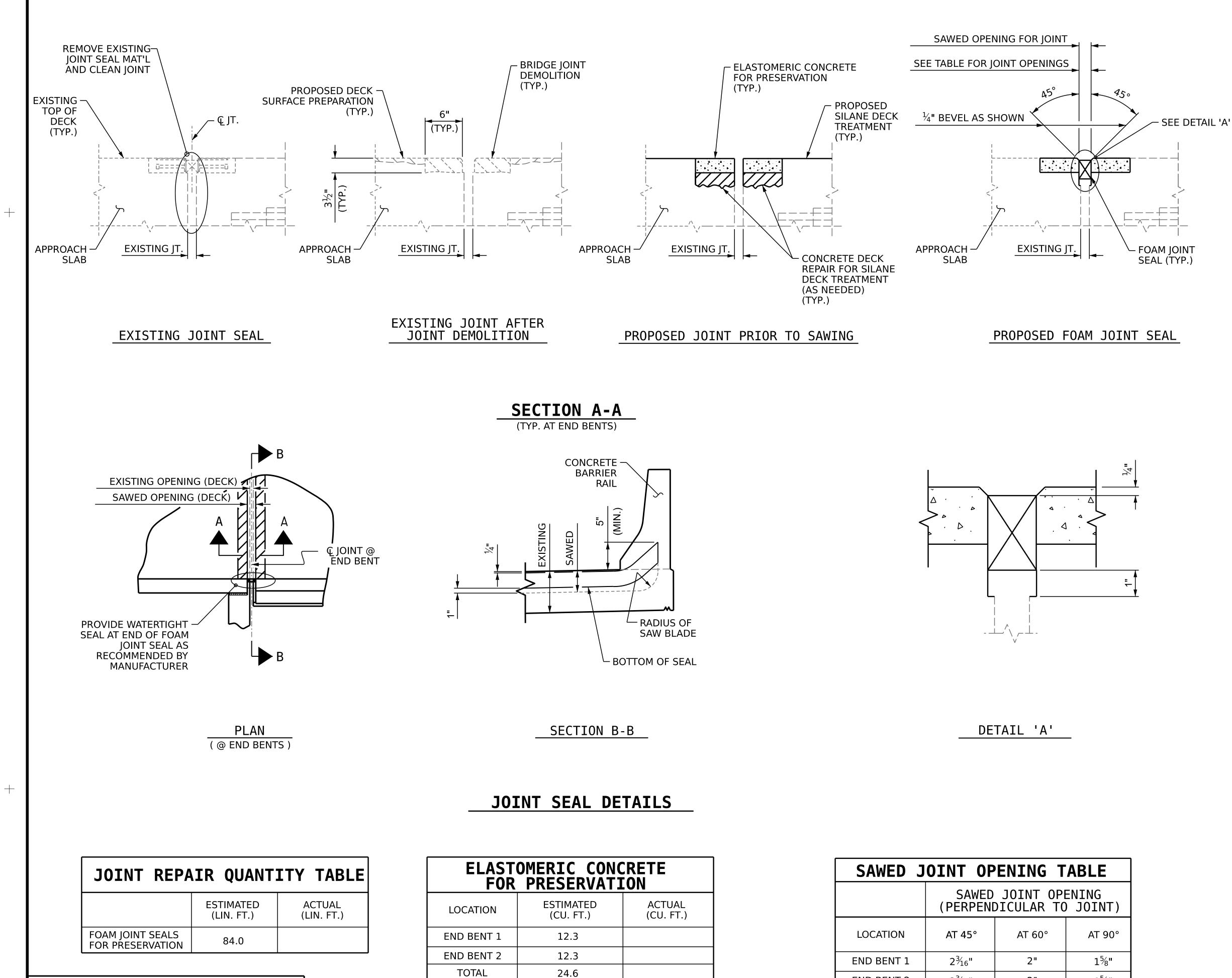




APPROACH SLAB 2

PROJECT	NO.	I-6036
B	RUN	SWICK COUNTY
BRIDGE	NO	090237





DRAWN BY :	S. T. SANDOR	DATE : 1/17/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :
		7/25/2023

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ONCRETE ATION		
)	ACTUAL (CU. FT.)	

SAWED J	OINT OP	ENING T	ABLE
		JOINT OPI DICULAR TO	
LOCATION	AT 45°	AT 60°	AT 90°
END BENT 1	2 ³ ⁄16"	2"	1 ⁵ ⁄8"
END BENT 2	2 ³ ⁄ ₁₆ "	2"	1 ⁵ ⁄8"

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 ACCOMODATE THE MINIMUM EXPANSION SHOWN ON THE PLANS.

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THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINTS IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINTS SHALL BE WATER TIGHT.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

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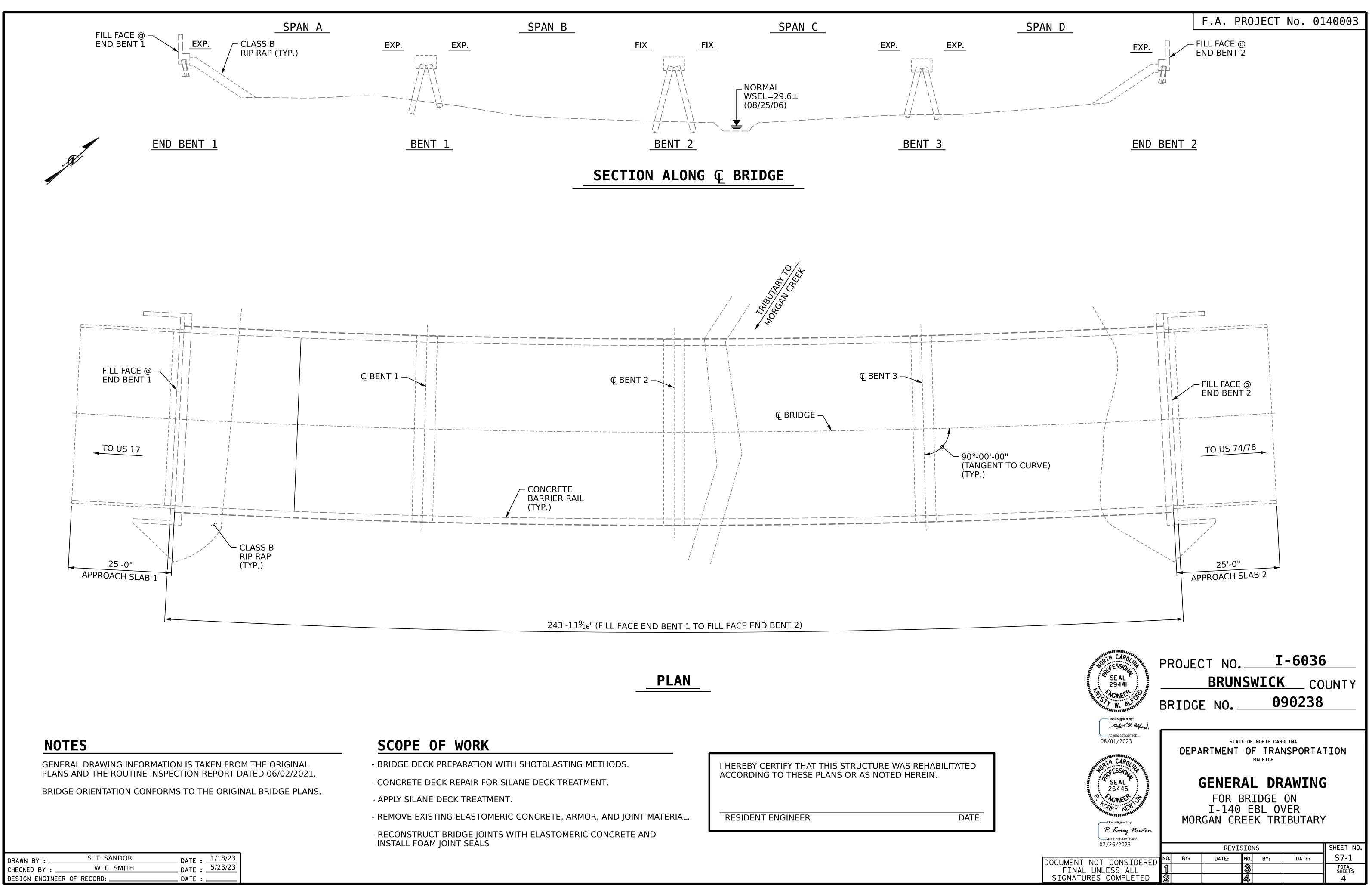
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FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

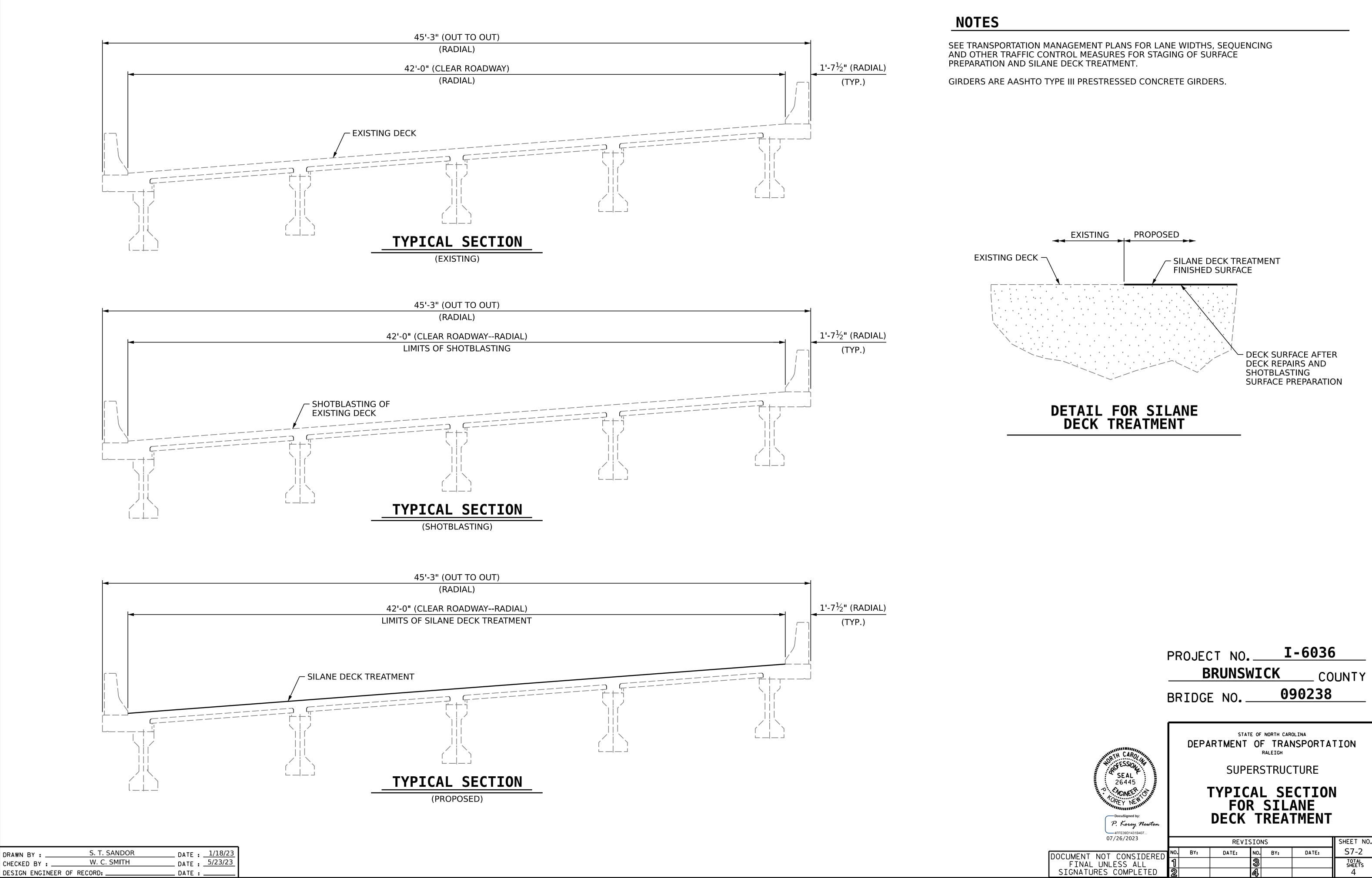
	PROJECT	Γ ΝΟ.	I	-6036	j
	BR	UNSW	ICK	CO	UNTY
	BRIDGE	NO	0	90237	
NUMBER OF CAROLANT	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
SEAL 26445 CONEEP. TOREY NEW MUNICIPALITY DocuSigned by:	JOINT REPAIR DETAILS				
P. Korcy Newton 4FFE39D1431B407					
07/26/2023				SHEET NO.	
DOCUMENT NOT CONSIDERED	NO. ВҮ: 1	DATE:	NO. BY:	DATE:	S6-4
FINAL UNLESS ALL SIGNATURES COMPLETED	2		<u>৩</u> 4		TOTAL SHEETS 4



DRAWN BY :	S. T. SANDOR	DATE :	1/18/23
CHECKED BY :	W. C. SMITH	DATE : .	5/23/23
DESIGN ENGINEE	R OF RECORD:	DATE : _	

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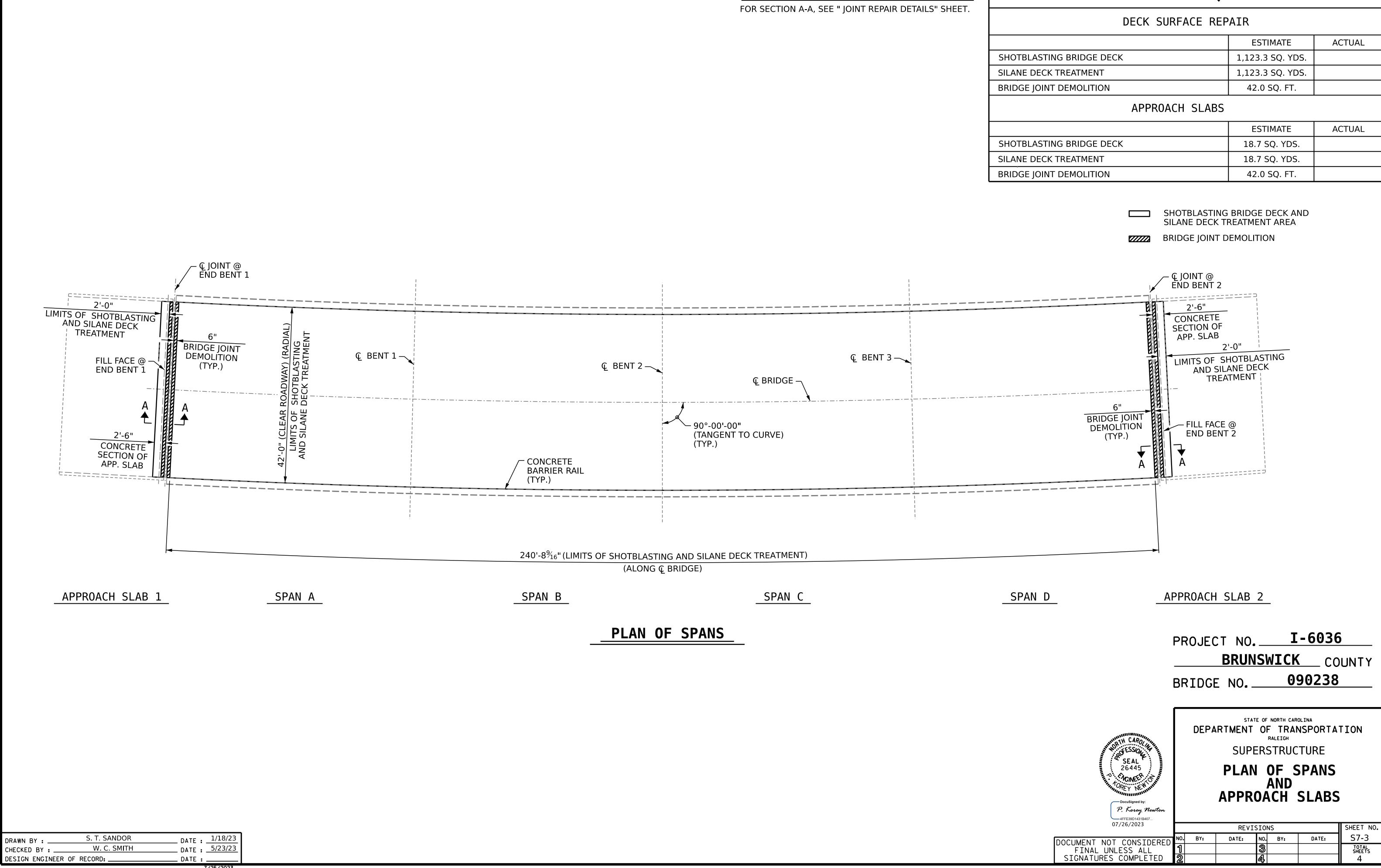
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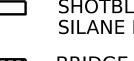
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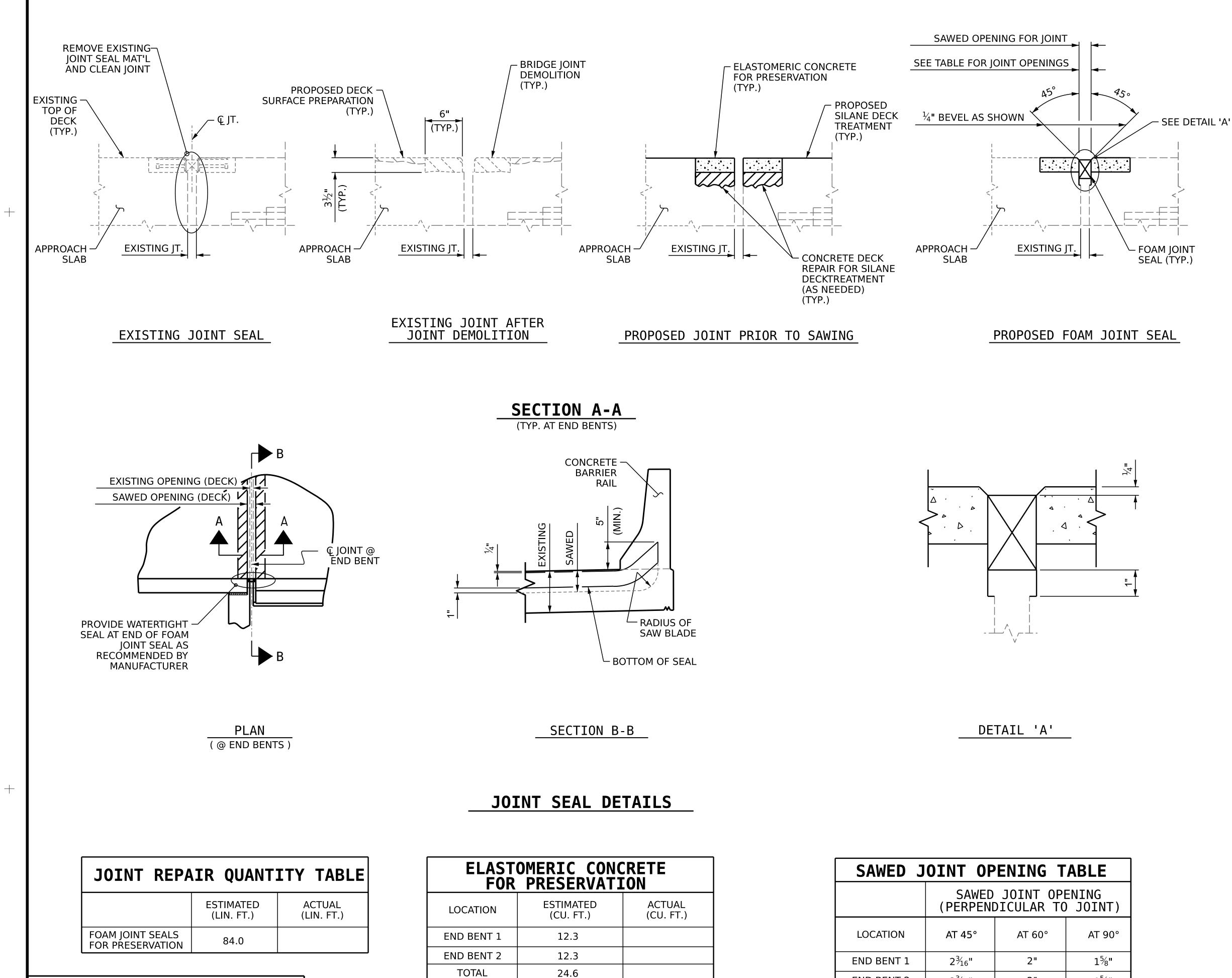
NOTES

DECK SURFACE REPAIR QUANTITY TABLE

	ESTIMATE	ACTUAL
OTBLASTING BRIDGE DECK	1,123.3 SQ. YDS.	
ANE DECK TREATMENT	1,123.3 SQ. YDS.	
DGE JOINT DEMOLITION	42.0 SQ. FT.	

	ESTIMATE	ACTUAL
OTBLASTING BRIDGE DECK	18.7 SQ. YDS.	
ANE DECK TREATMENT	18.7 SQ. YDS.	
DGE JOINT DEMOLITION	42.0 SQ. FT.	





DRAWN BY :	S. T. SANDOR	DATE : 1/17/23
CHECKED BY :	W. C. SMITH	DATE : <u>5/23/23</u>
DESIGN ENGINEE	R OF RECORD:	DATE :
		7/25/2023

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ONCRETE ATION			
)	ACTUAL (CU. FT.)		

SAWED J	OINT OP	ENING T	ABLE	
	SAWED JOINT OPENING (PERPENDICULAR TO JOINT)			
LOCATION	AT 45°	AT 60°	AT 90°	
END BENT 1	2 ³ ⁄16"	2"	1 ⁵ ⁄8"	
END BENT 2	2 ³ ⁄ ₁₆ "	2"	15/8"	

NOTES

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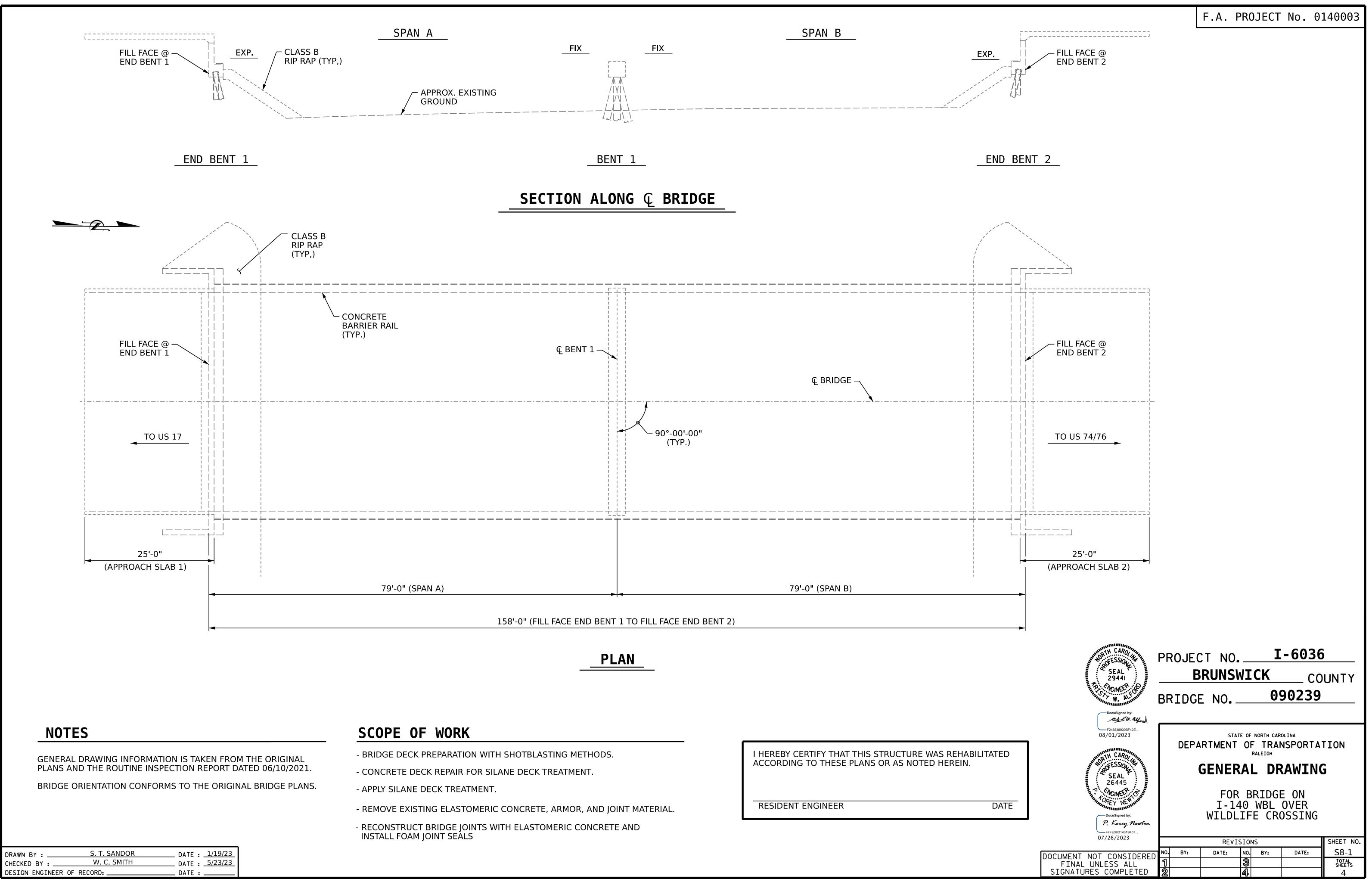
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FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

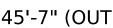
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	BR	UNSW	ICK	CO	UNTY
	BRIDGE	NO	0	90238	
NUMBER SSION	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
BEAL 26445 CONEFRICTION DocuSigned by:			NT RE ETAII		
<i>P. Korey. Newton</i> 4FFE39D1431B407 07/26/2023					
	NO. BY:	REVIS		DATE:	SHEET NO. S7-4
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL	1	UAIL:	NO. BY:	UAIL:	J7-4 TOTAL SHEETS
SIGNATURES COMPLETED	2		4 4		4

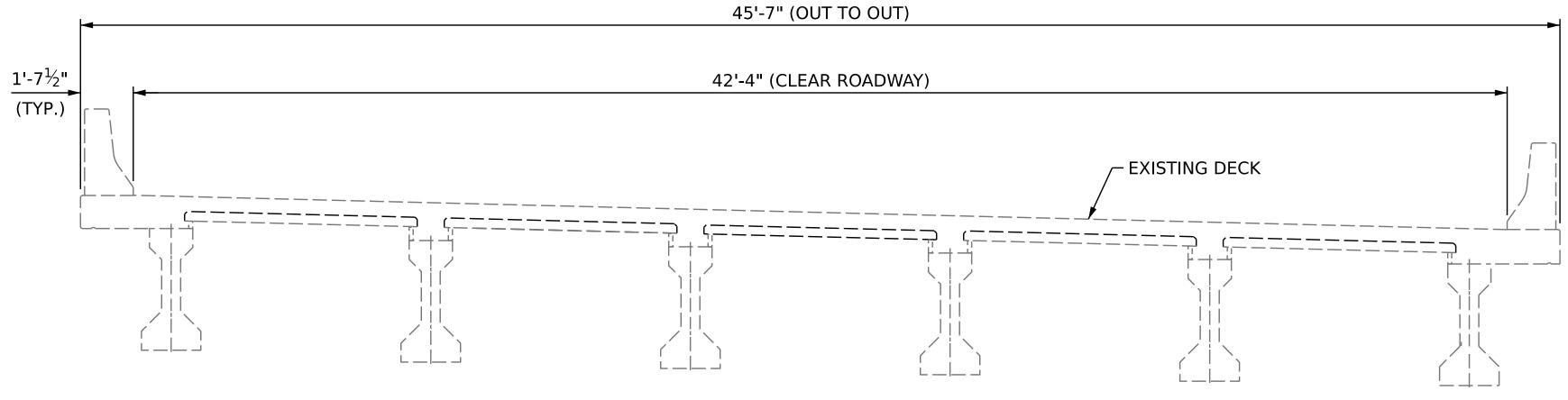


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DRAWN BY :	S. T. SANDOR	DATE : <u>1/19/23</u>
CHECKED BY :	W. C. SMITH	DATE : <u>5/23/23</u>
DESIGN ENGINEE	R OF RECORD:	DATE :

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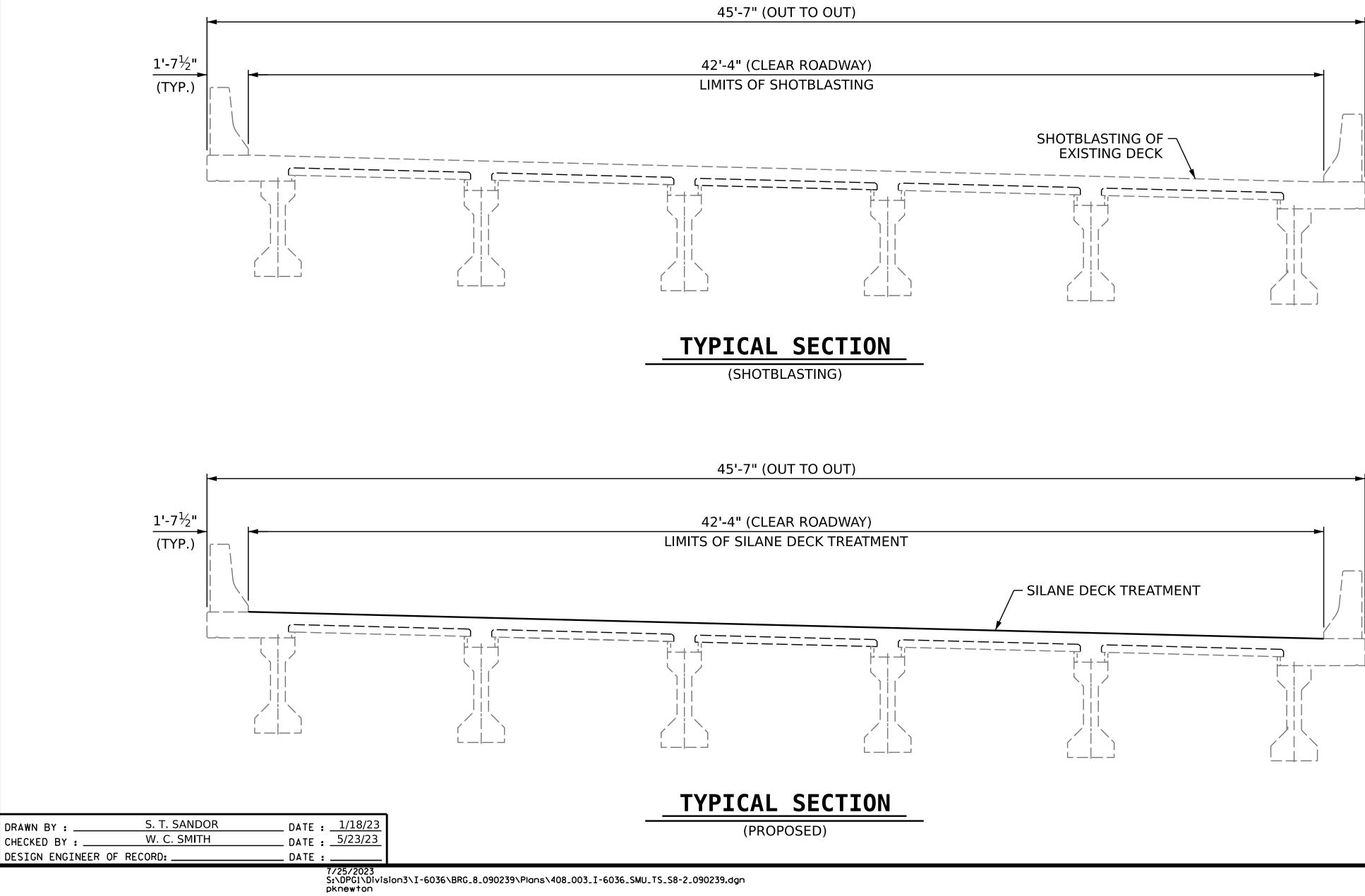




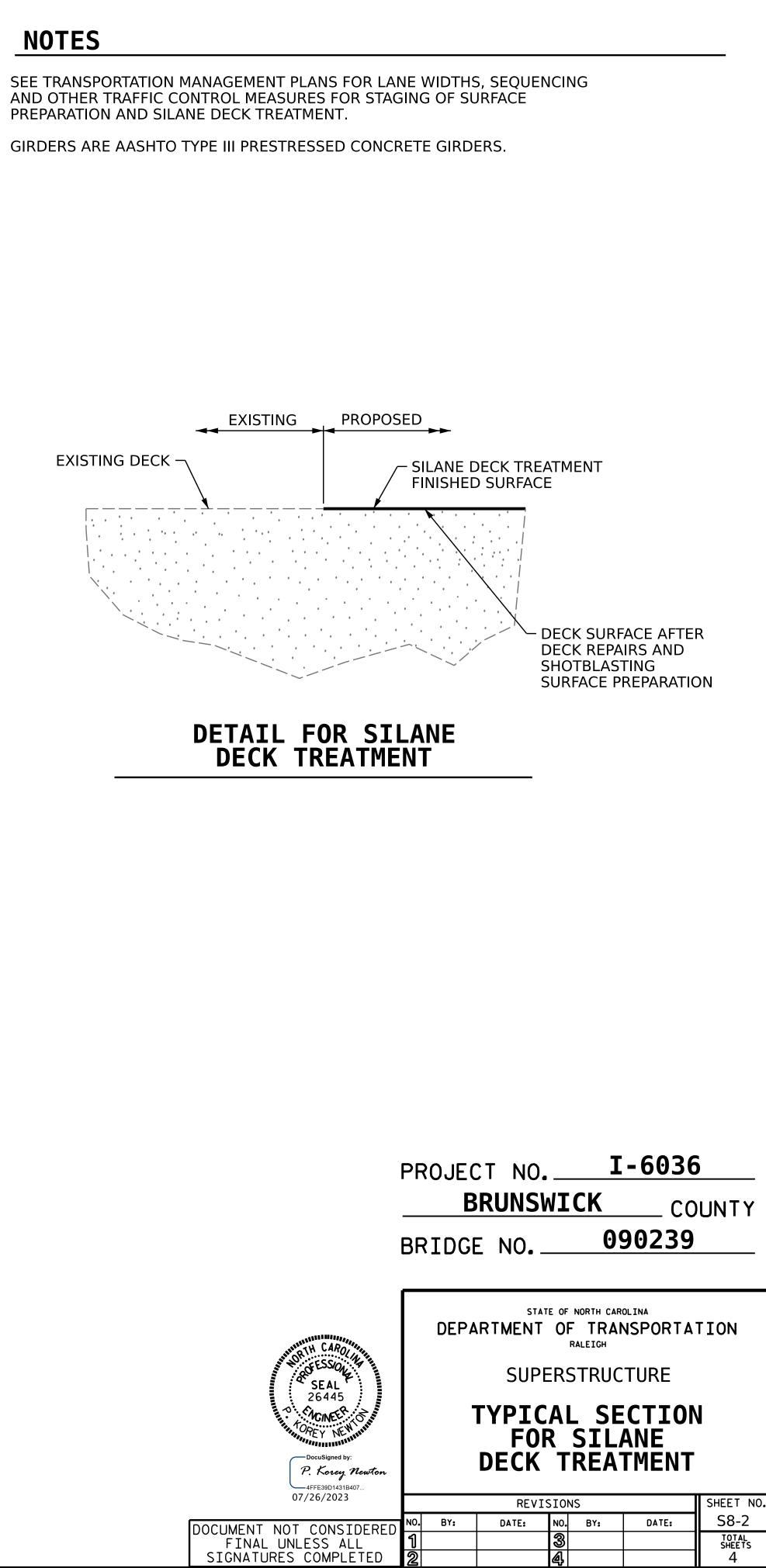
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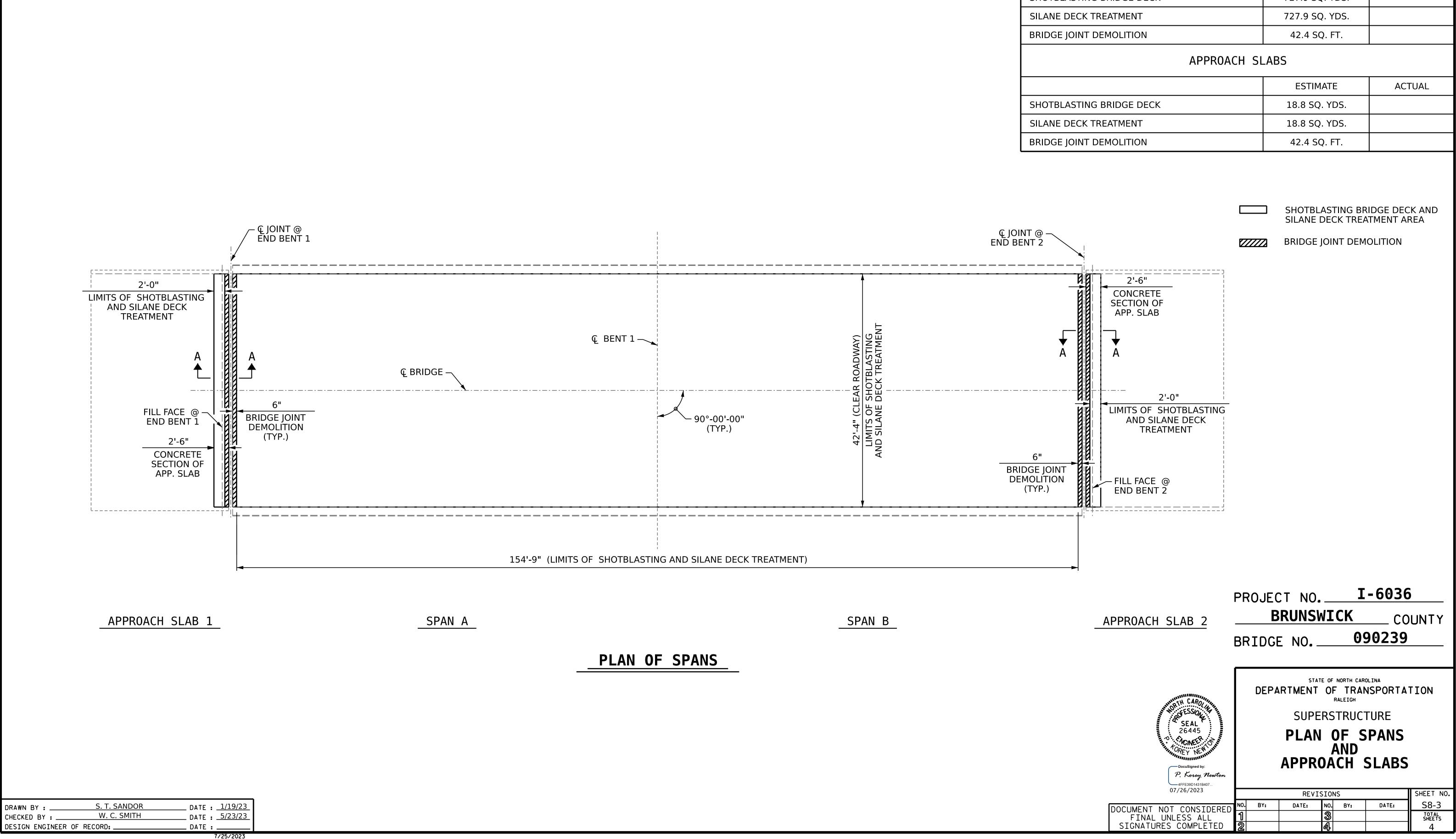
TYPICAL SECTION





NOTES





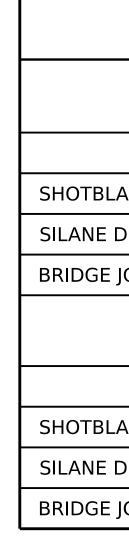
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FOR SECTION A-A, SEE " JOINT REPAIR DETAILS" SHEET.

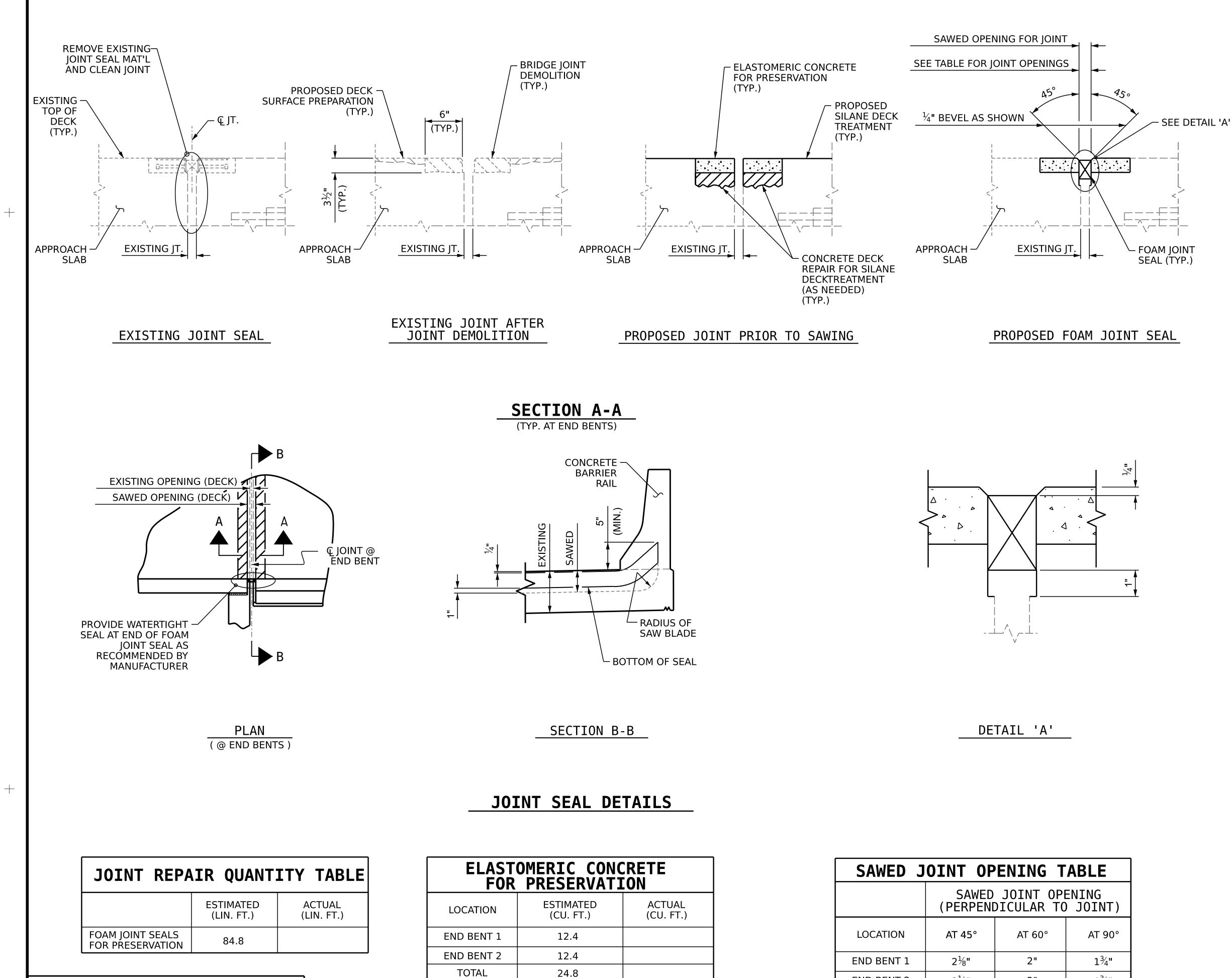


DECK SURFACE REPAIR QUANTITY TABLE

DECK	SURFACE	REPAIR
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	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	727.9 SQ. YDS.	
DECK TREATMENT	727.9 SQ. YDS.	
JOINT DEMOLITION	42.4 SQ. FT.	

	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	18.8 SQ. YDS.	
DECK TREATMENT	18.8 SQ. YDS.	
JOINT DEMOLITION	42.4 SQ. FT.	



DRAWN BY :	S. T. SANDOR	DATE : 1/19/23
CHECKED BY :	W. C. SMITH	DATE : <u>5/23/23</u>
DESIGN ENGINEER	OF RECORD:	DATE :
		7/25/2023

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ONCRETE ATION			
)	ACTUAL (CU. FT.)		

SAWED J	OINT OP	ENING T	ABLE	
	SAWED JOINT OPENING (PERPENDICULAR TO JOINT)			
LOCATION	AT 45°	AT 60°	AT 90°	
END BENT 1	2 ¹ ⁄8"	2"	1¾"	
END BENT 2	2 ¹ ⁄8"	2"	1¾"	

NOTES

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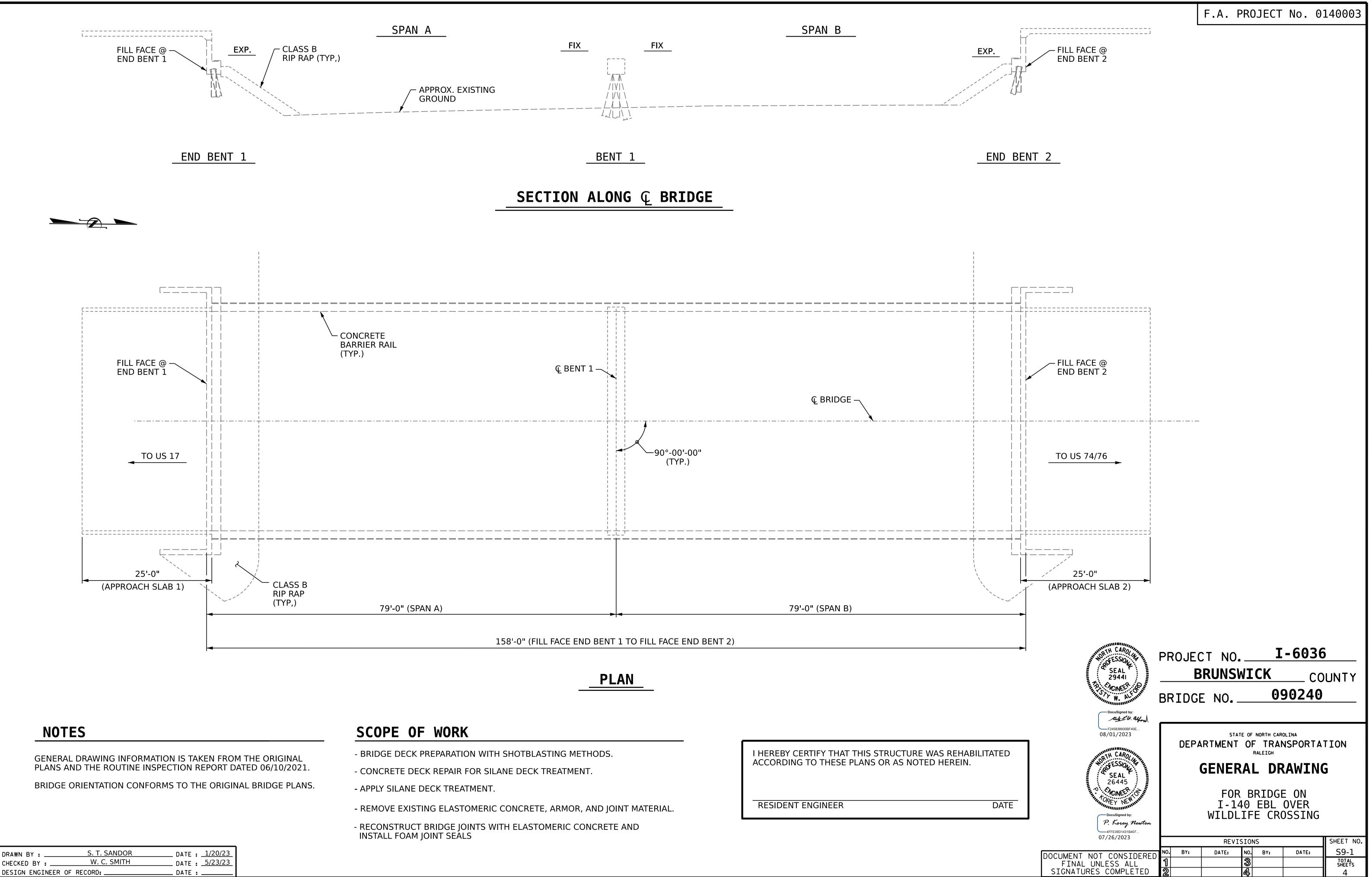
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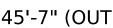
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	BR	RUNSW	ICK	CO	UNTY
	BRIDGE	NO	0	90239	
TH CAROLINE THE CAROLINE	DEPAR		OF NORTH CAR	NSPORTA	TION
SEAL 26445 TOREY NEW MININ			IT RE ETAII		
P. Korey Newton 4FFE39D1431B407					
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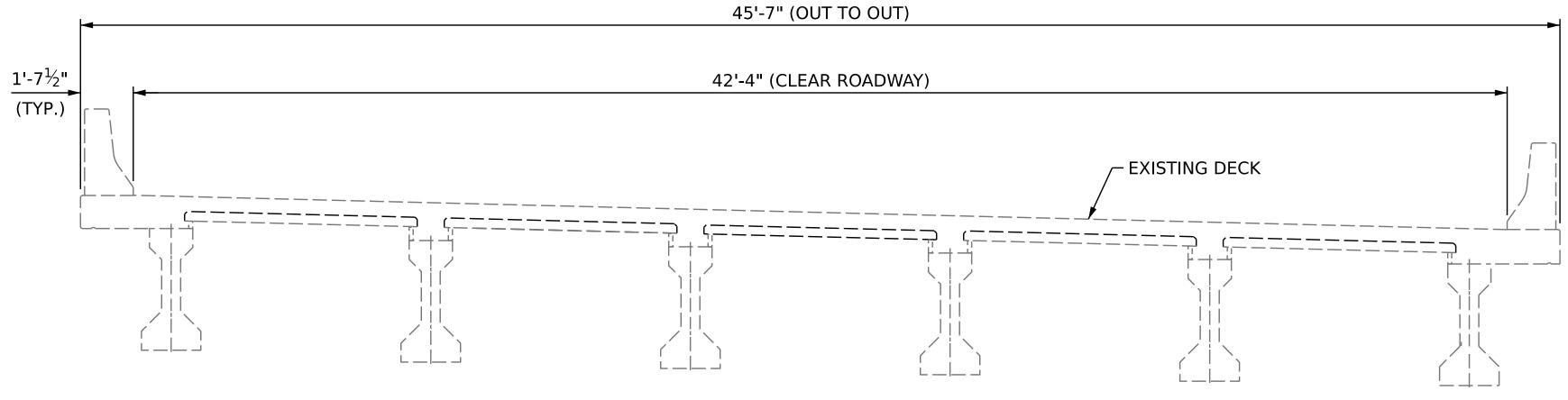


DRAWN BY :	S. T. SANDOR	DATE : <u>1/20/23</u>
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :
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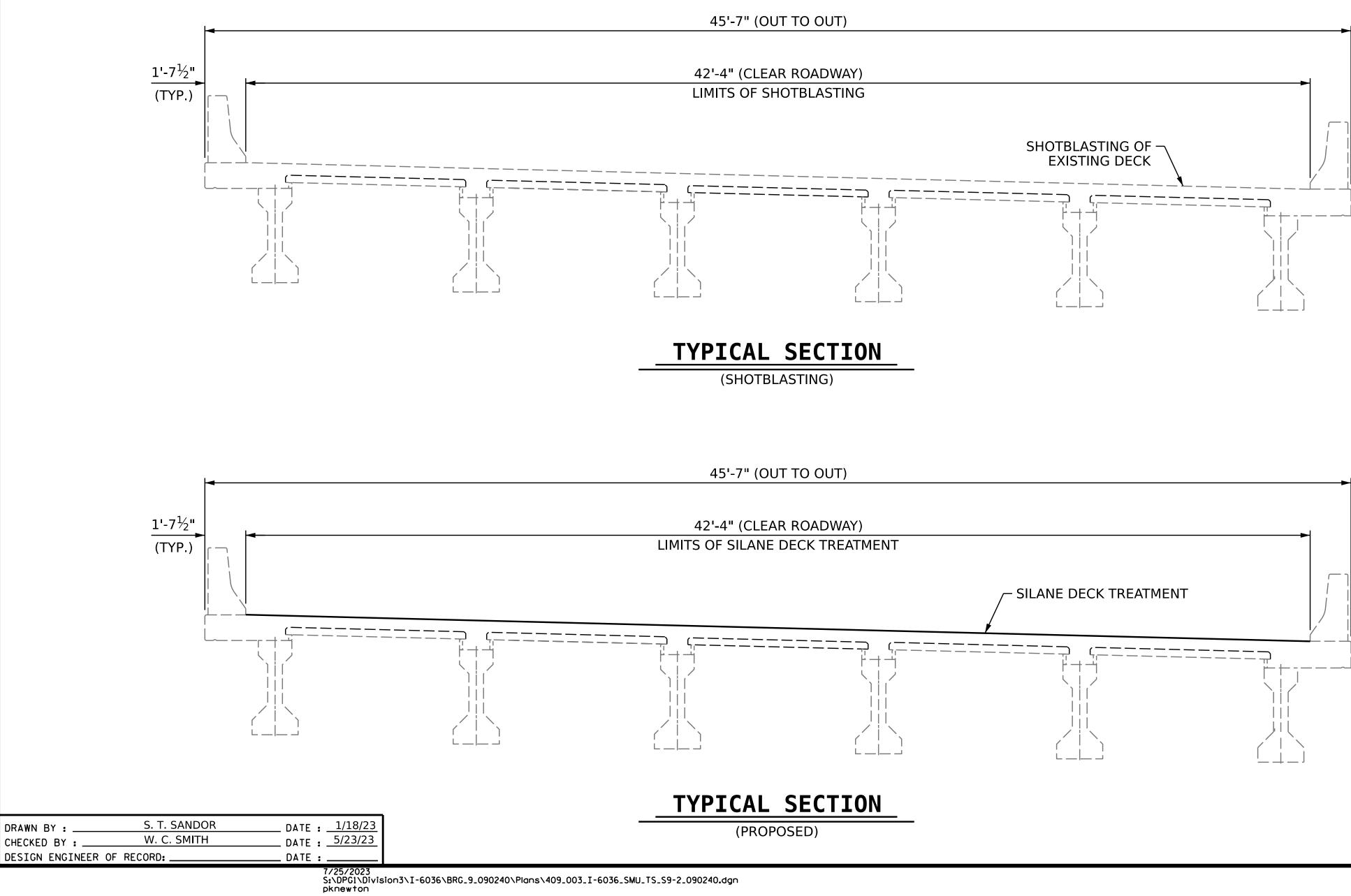




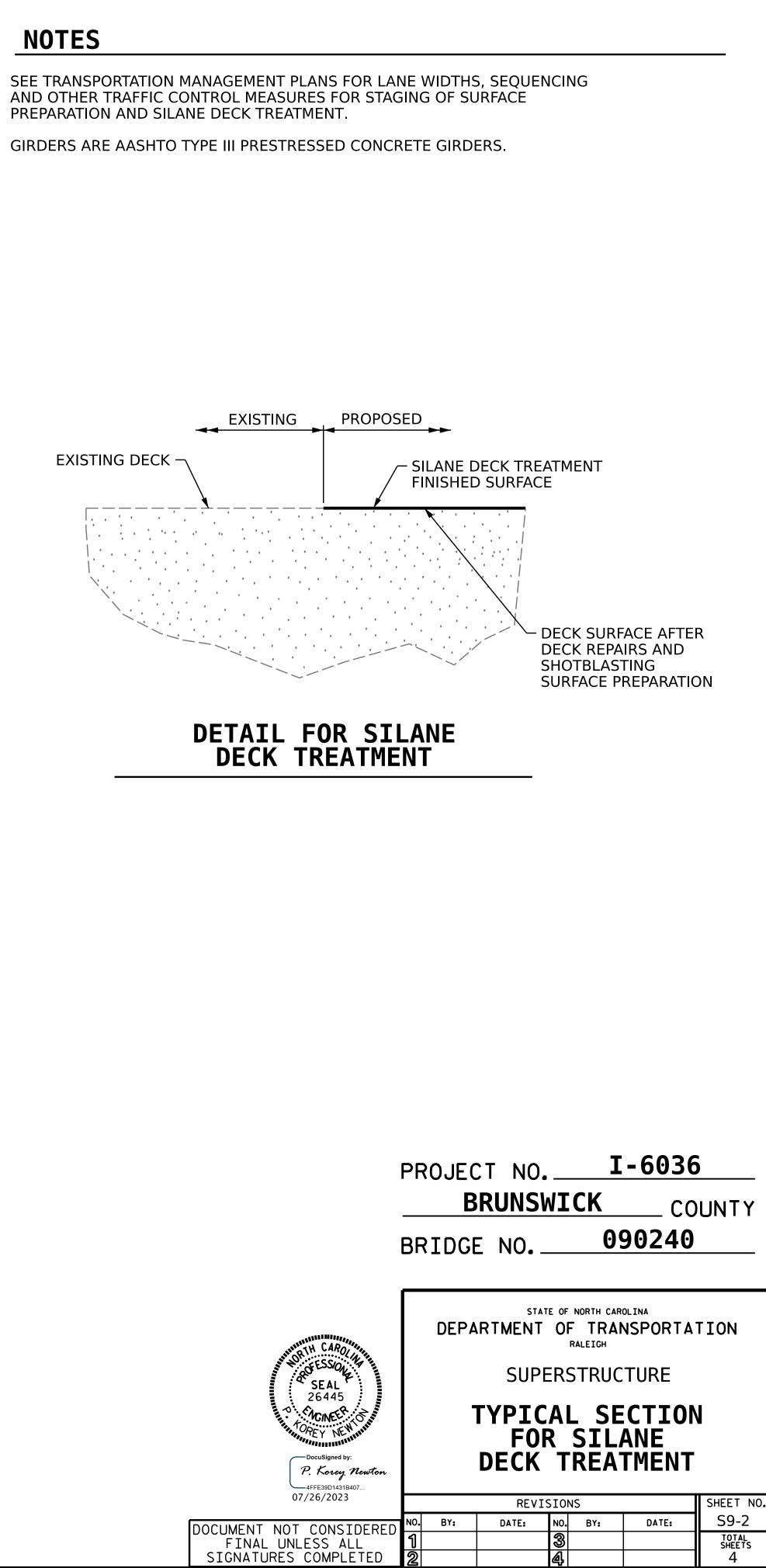
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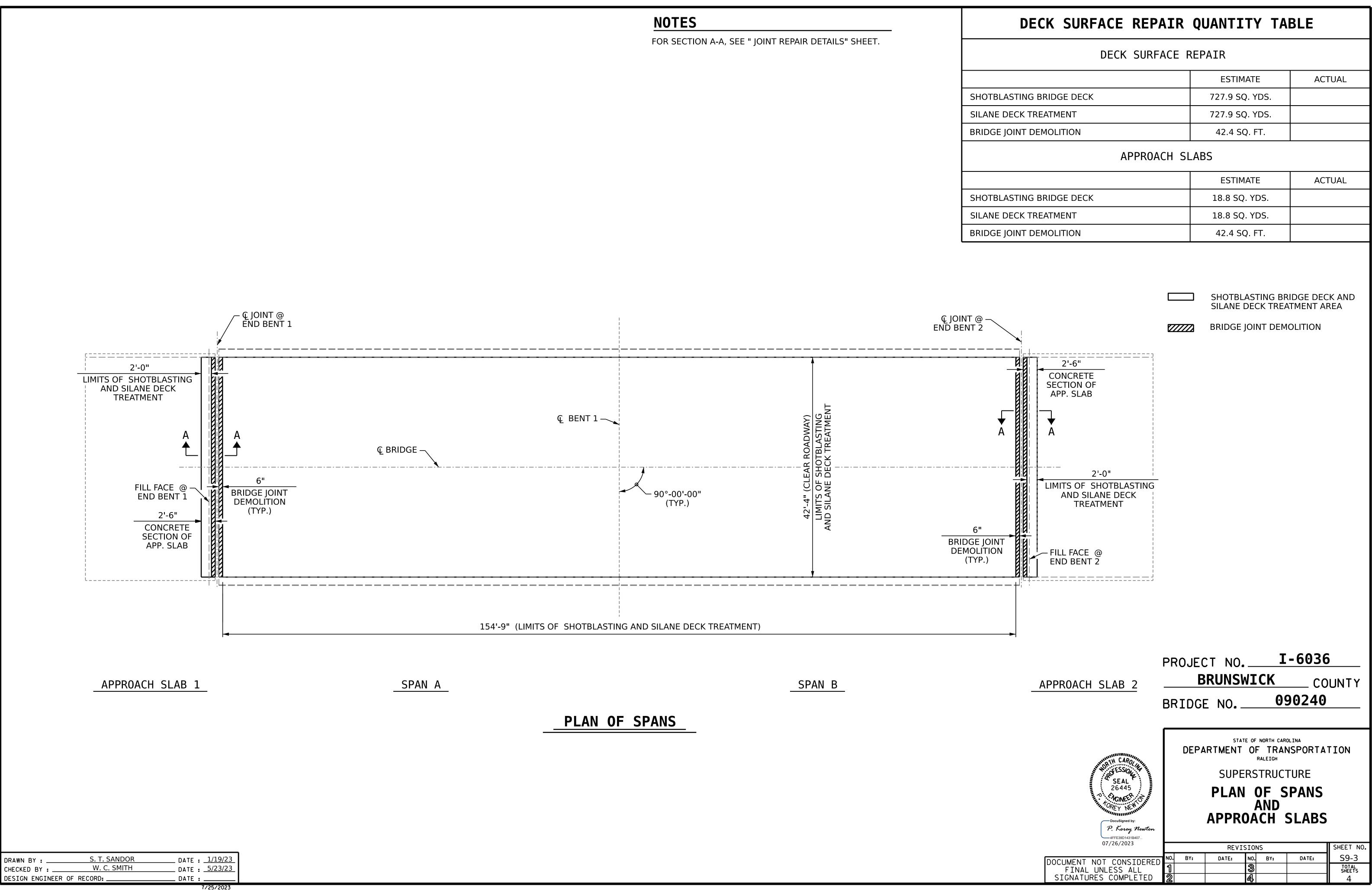
TYPICAL SECTION

(EXISTING)



NOTES

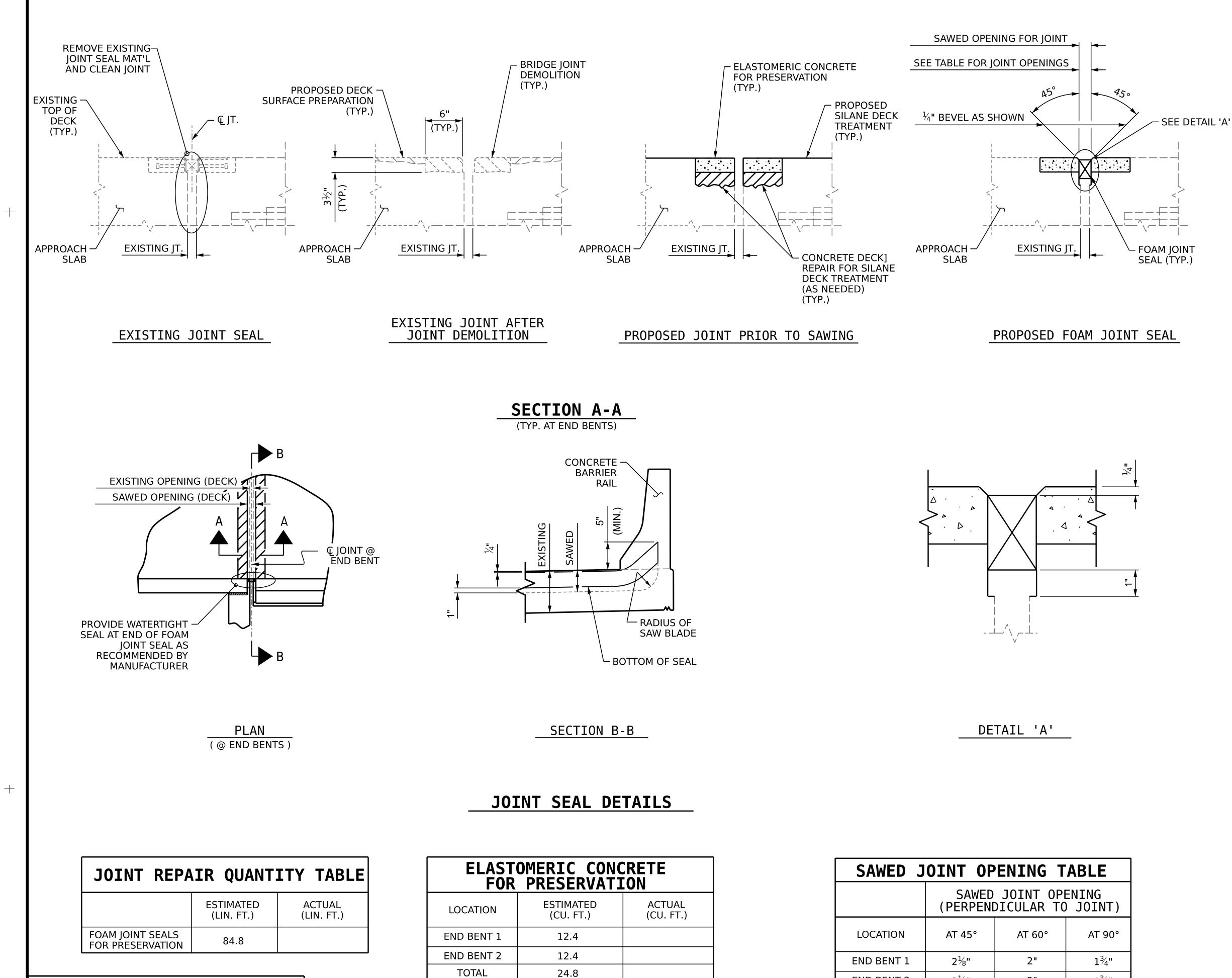




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	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	727.9 SQ. YDS.	
DECK TREATMENT	727.9 SQ. YDS.	
JOINT DEMOLITION	42.4 SQ. FT.	

	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	18.8 SQ. YDS.	
DECK TREATMENT	18.8 SQ. YDS.	
JOINT DEMOLITION	42.4 SQ. FT.	



DRAWN BY :	S. T. SANDOR	DATE : 1/19/23
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		7/25/2023

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CONCRETE ATION		
D	ACTUAL (CU. FT.)	

SAWED J	OINT OP	ENING T	ABLE
		JOINT OPI DICULAR TO	
LOCATION	AT 45°	AT 60°	AT 90°
END BENT 1	2 ¹ ⁄8"	2"	1¾"
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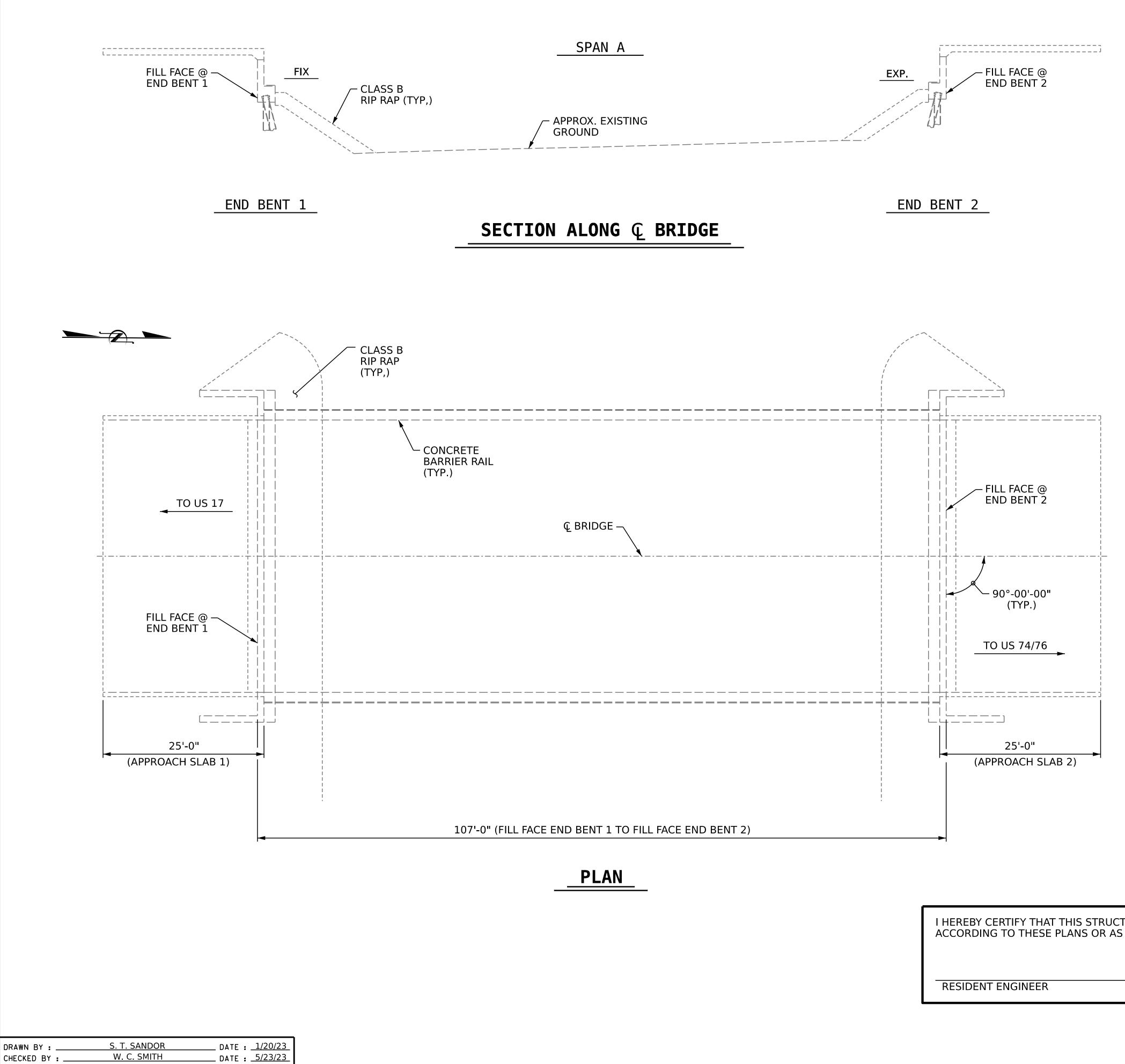
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DESIGN ENGINEER OF RECORD:

. DATE : _

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

NOTES

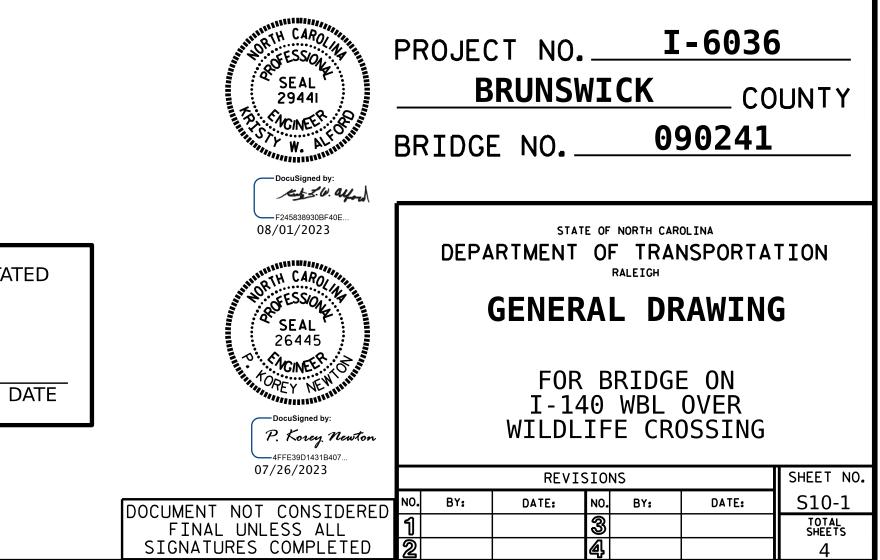
GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/11/2021.

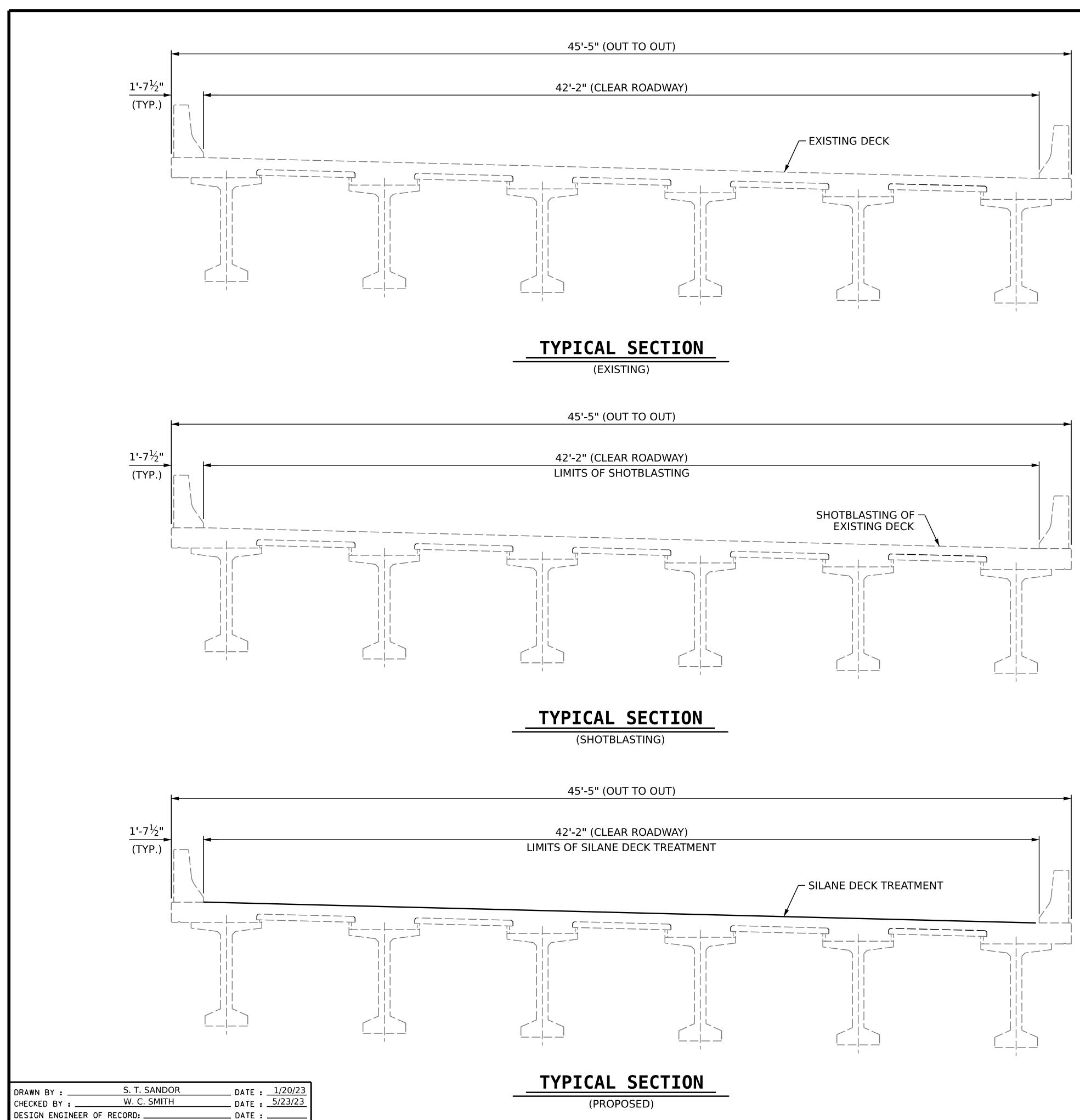
BRIDGE ORIENTATION CONFORMS TO THE ORIGINAL BRIDGE PLANS.

SCOPE OF WORK

- BRIDGE DECK PREPARATION WITH SHOTBLASTING METHODS.

- CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT.
- APPLY SILANE DECK TREATMENT.
- REMOVE EXISTING ELASTOMERIC CONCRETE, ARMOR, AND JOINT MATERIAL.
- RECONSTRUCT BRIDGE JOINTS WITH ELASTOMERIC CONCRETE AND INSTALL FOAM JOINT SEALS

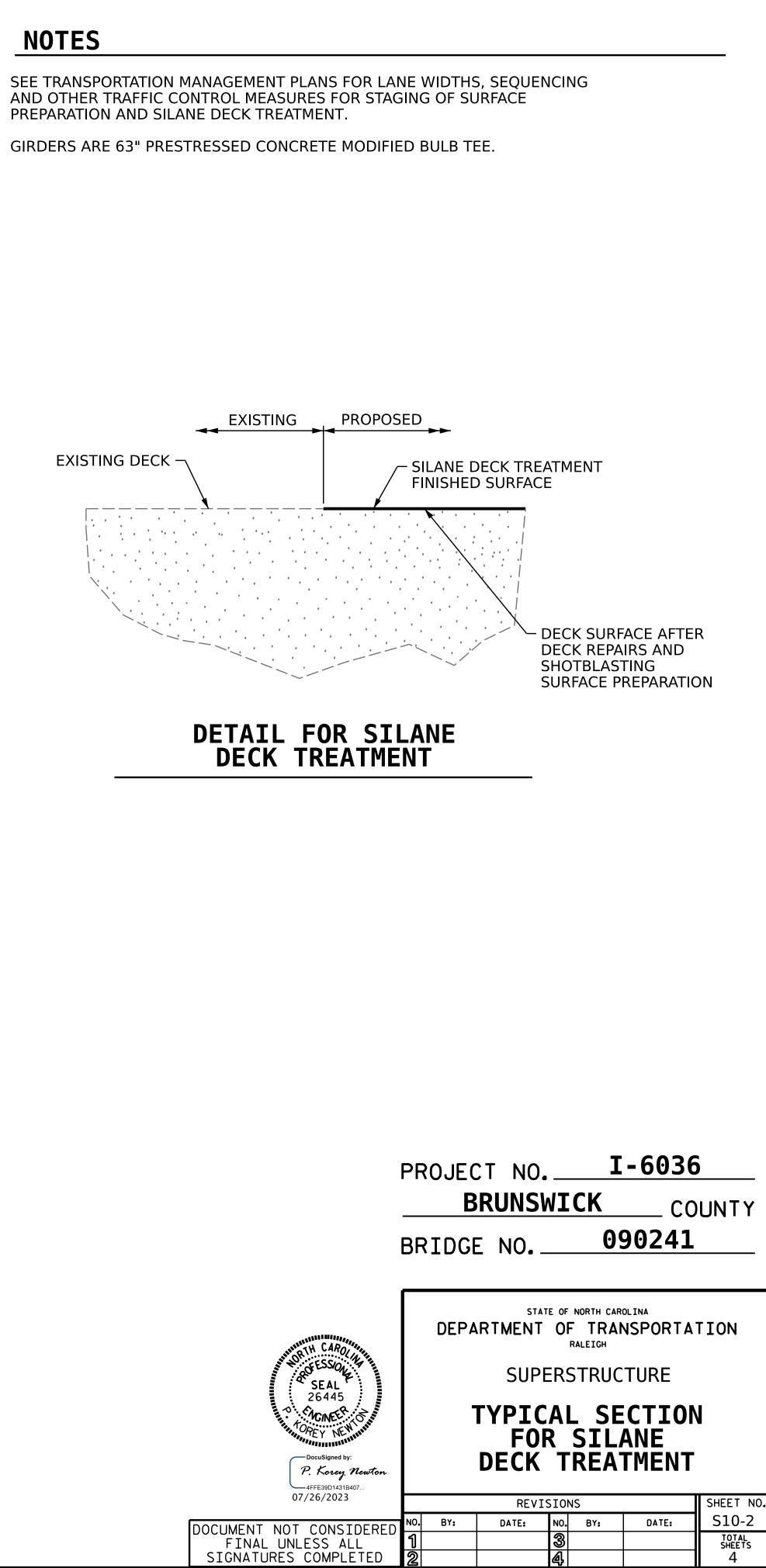


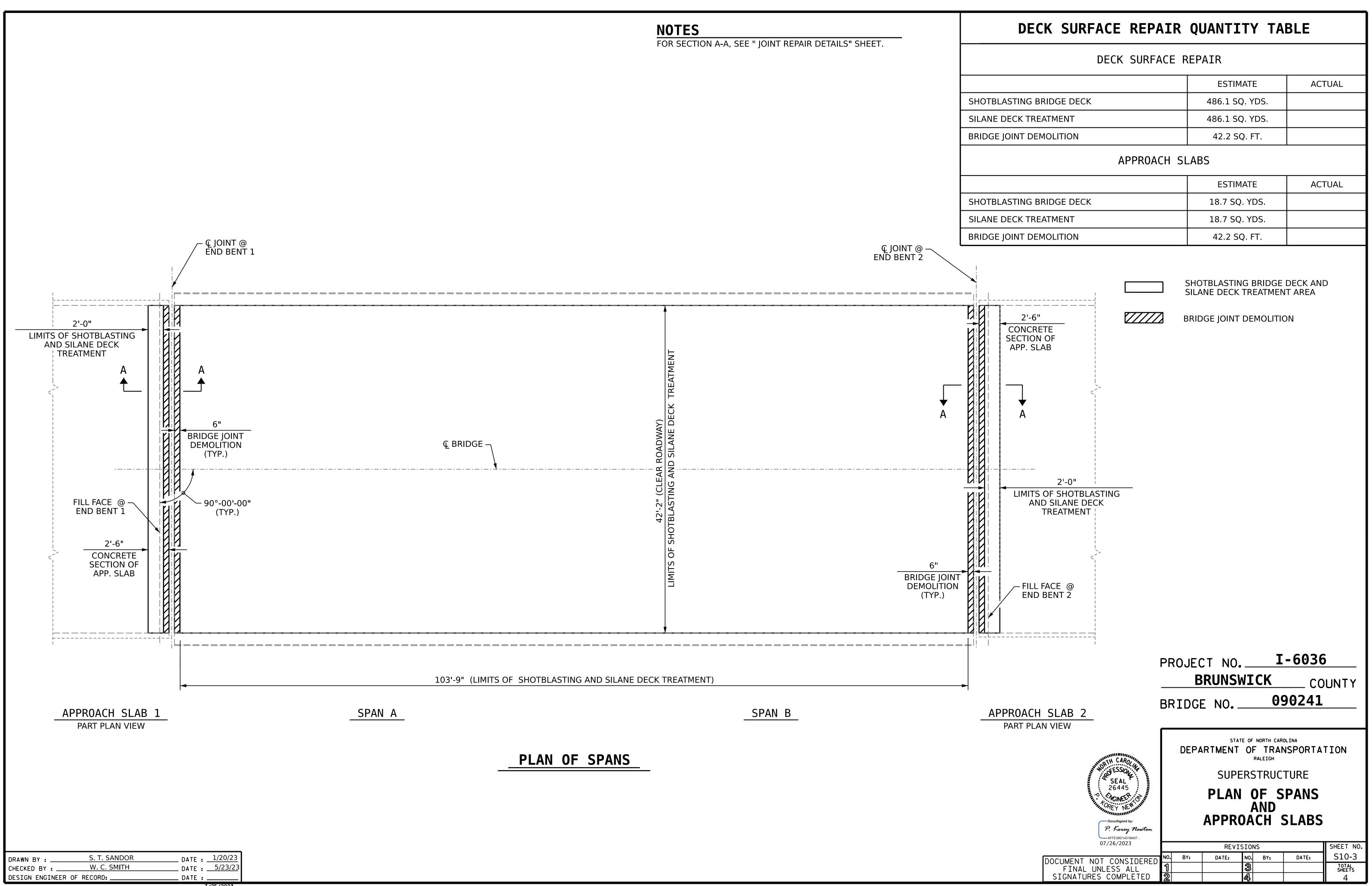


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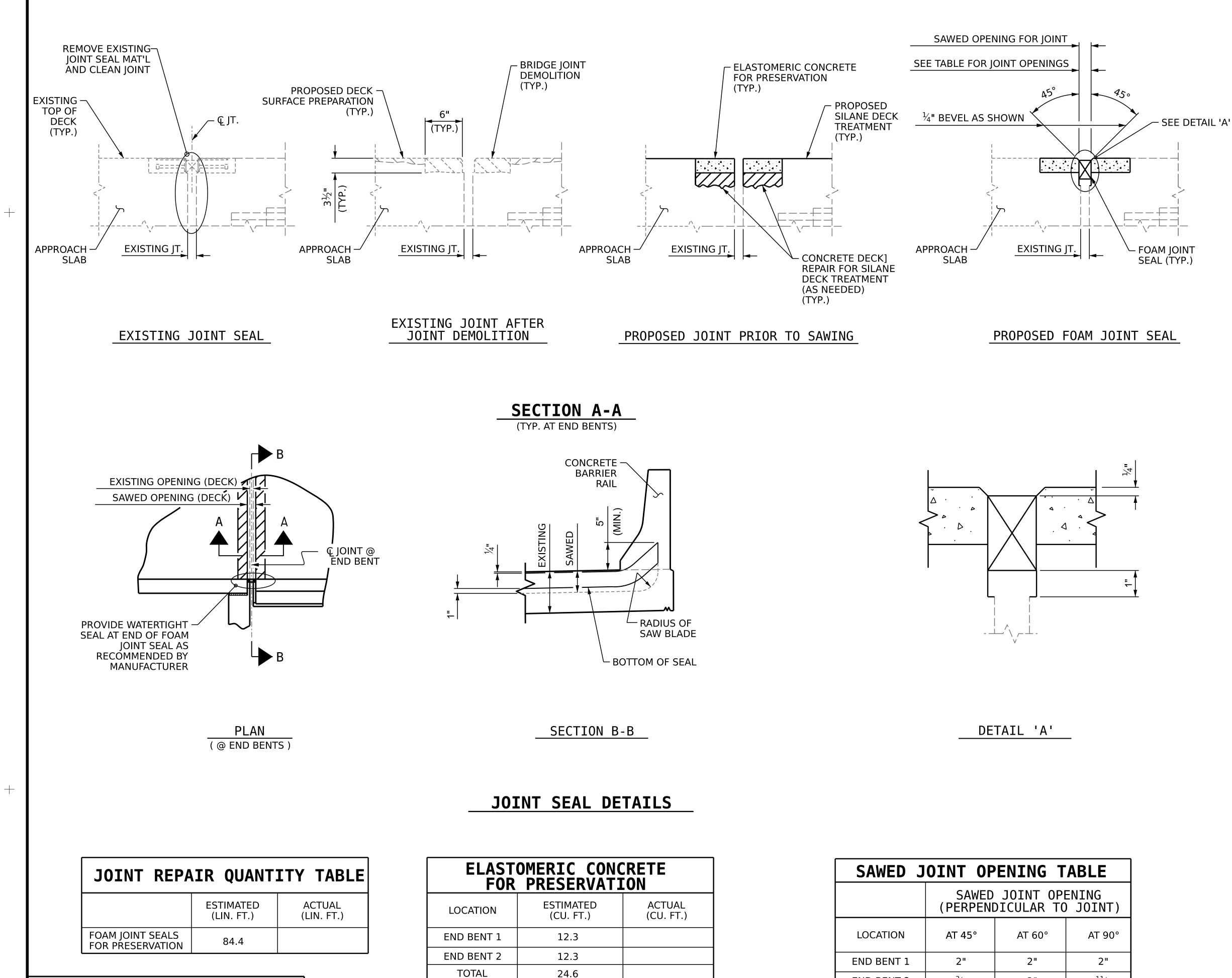




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	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	486.1 SQ. YDS.	
DECK TREATMENT	486.1 SQ. YDS.	
JOINT DEMOLITION	42.2 SQ. FT.	

	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	18.7 SQ. YDS.	
DECK TREATMENT	18.7 SQ. YDS.	
JOINT DEMOLITION	42.2 SQ. FT.	



DRAWN BY :	S. T. SANDOR	DATE : 1/19/23
CHECKED BY :	W. C. SMITH	DATE : 5/23/23
DESIGN ENGINEER	OF RECORD:	DATE :
		7/25/2023

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ONCRETE ATION		
)	ACTUAL (CU. FT.)	

SAWED J	OINT OP	ENING T	ABLE	
SAWED JOINT OPENING (PERPENDICULAR TO JOINT)				
LOCATION	AT 45°	AT 60°	AT 90°	
END BENT 1	2"	2"	2"	
END BENT 2	2 ³ ⁄16"	2"	1 ¹¹ ⁄16"	

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 ACCOMODATE 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 JOINTS IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINTS SHALL BE WATER TIGHT.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

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

QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

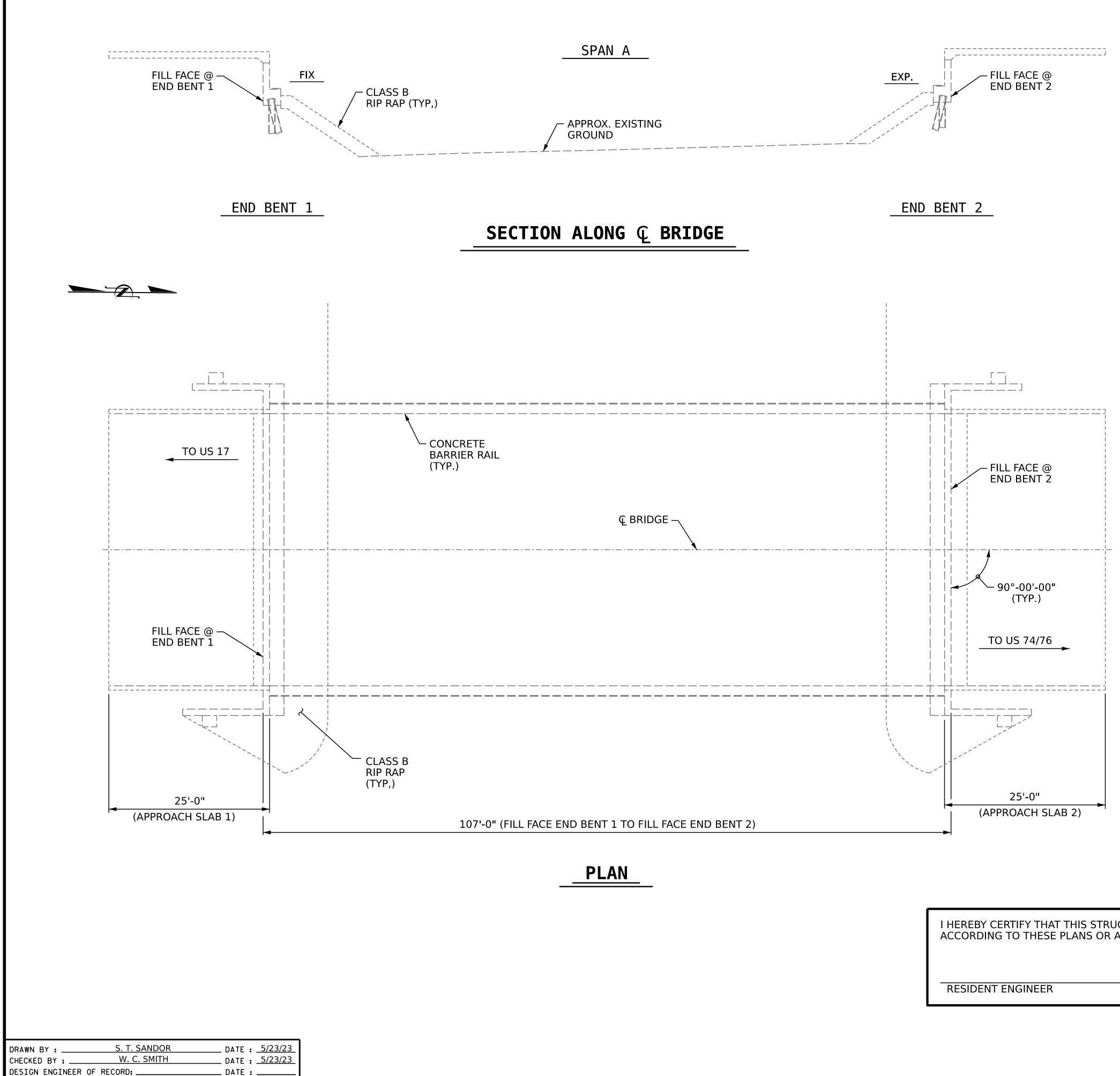
FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATÉRIAL OR ELASTOMERIC CONCRETE SHALL BE REASONABLY FLAT AND LEVEL. THE ENGINEER SHALL DETERMINE ACCEPTABILITY OF THE SURFACE.

FOR EXCAVATION BELOW THE BOTTOM OF PLANNED JOINT DEMOLITION, CONCRETE FOR DECK REPAIR SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOWN.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

	PROJEC	T NO.	I	-6036)
	BF	RUNSW	ICK	CO	UNTY
	BRIDGE NO. 090241				
NORTH CAROLINA	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
SEAL 26445 CORER OT	JOINT REPAIR Details				
DocuSigned by: P. Korey, Newton 4FFE39D1431B407					
07/26/2023	REVISIONS SHEET NO.				
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S10-4
FINAL UNLESS ALL SIGNATURES COMPLETED	1		<u>3</u> 4		TOTAL SHEETS
J STONATONES CONFLETED			ዲ		4



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

NOTES

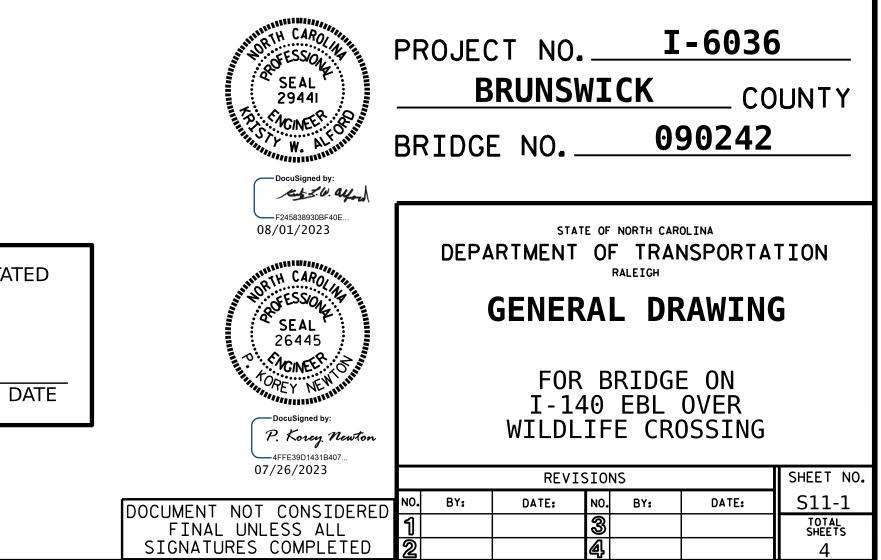
GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/11/2021.

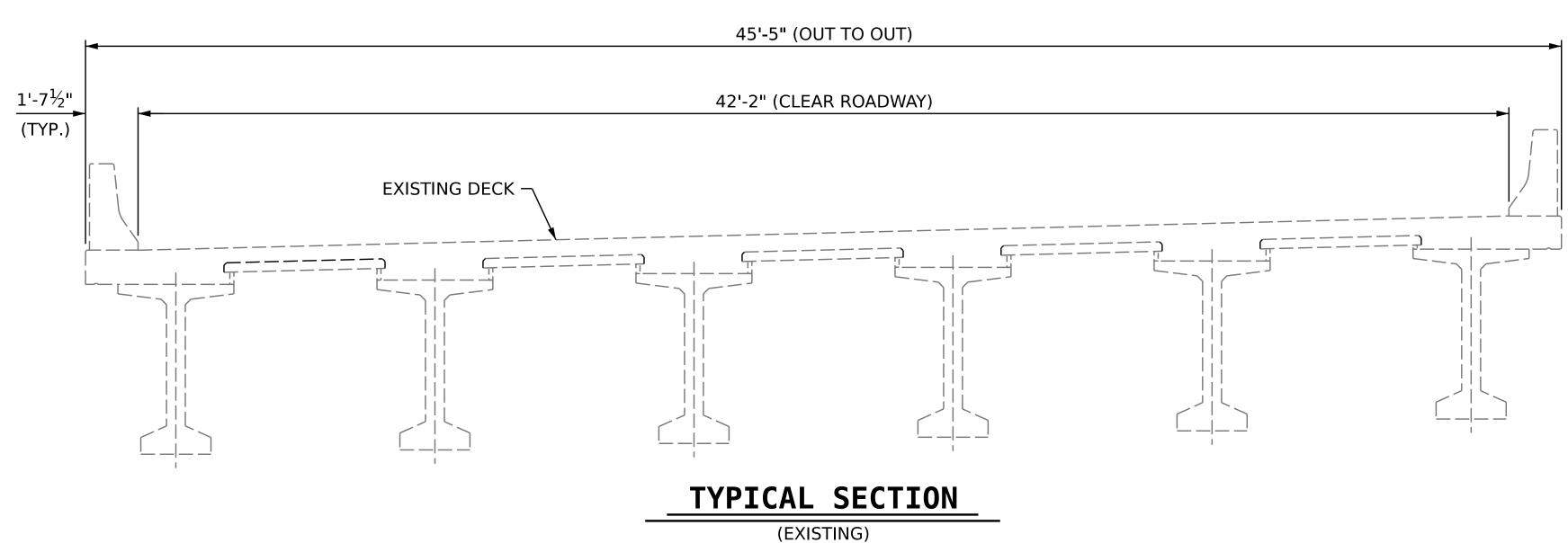
BRIDGE ORIENTATION CONFORMS TO THE ORIGINAL BRIDGE PLANS.

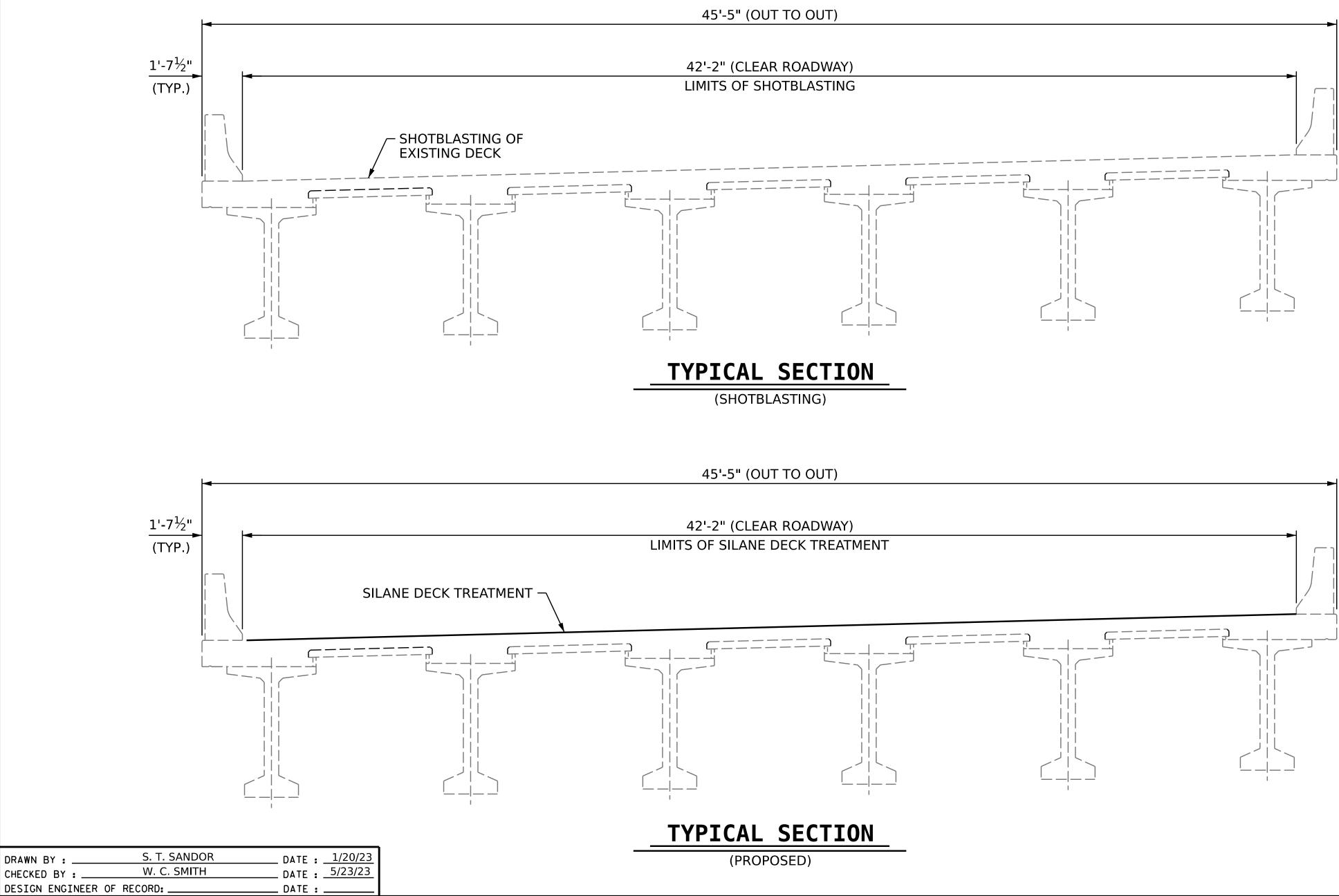
SCOPE OF WORK

- BRIDGE DECK PREPARATION WITH SHOTBLASTING METHODS.

- CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT.
- APPLY SILANE DECK TREATMENT.
- REMOVE EXISTING ELASTOMERIC CONCRETE, ARMOR, AND JOINT MATERIAL.
- RECONSTRUCT BRIDGE JOINTS WITH ELASTOMERIC CONCRETE AND INSTALL FOAM JOINT SEALS







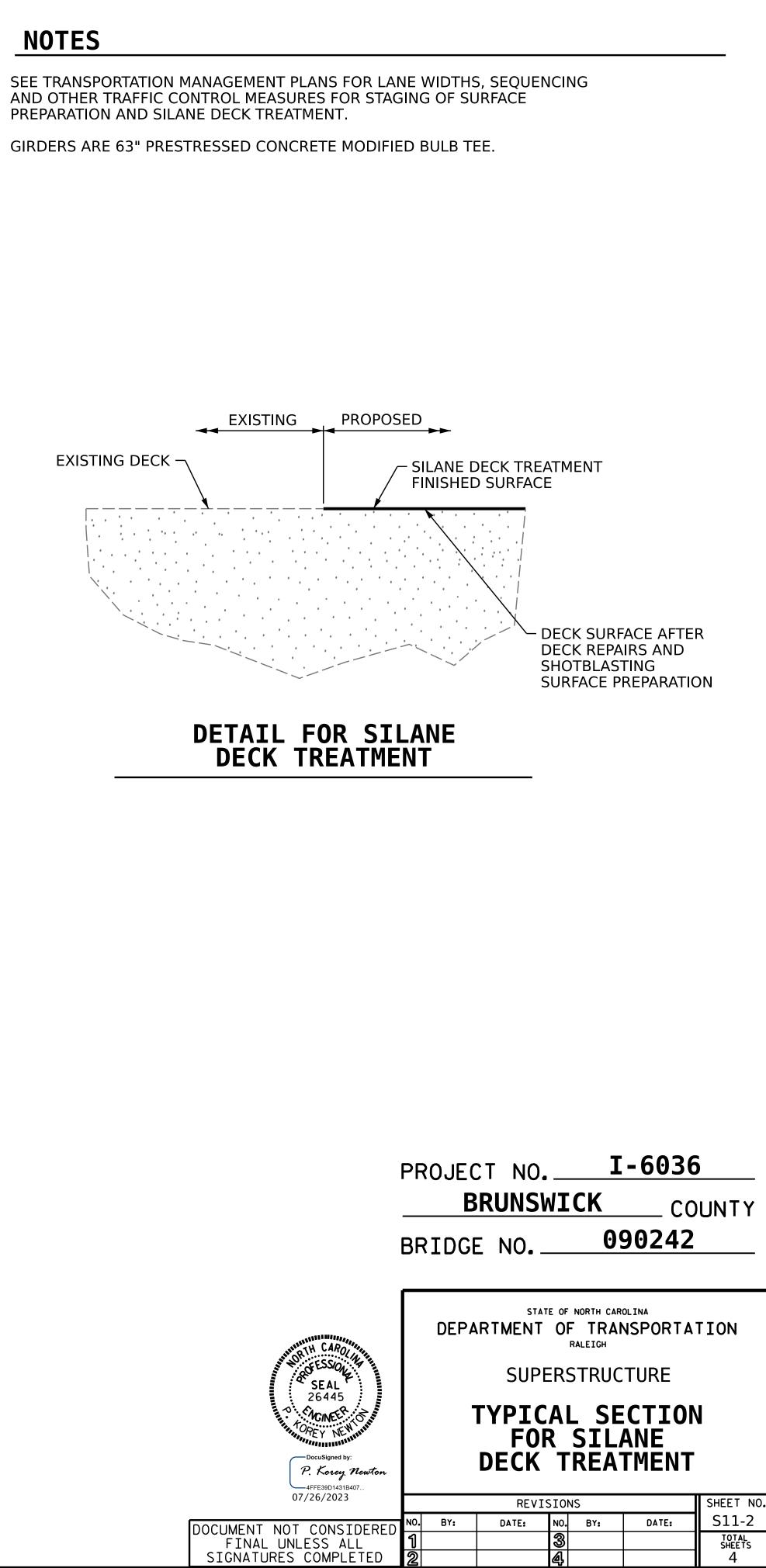
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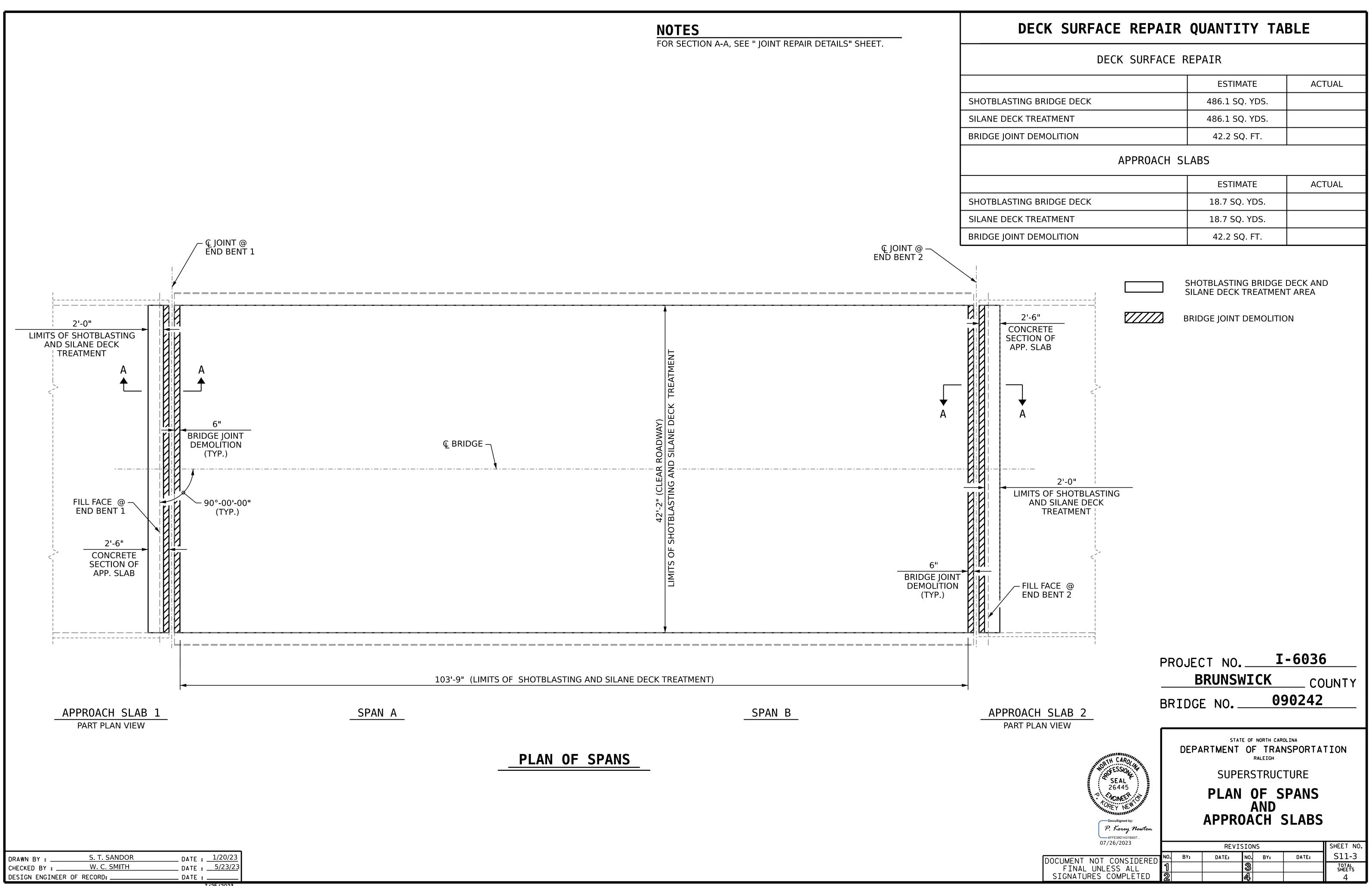
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DRAWN BY :

NOTES





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	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	486.1 SQ. YDS.	
DECK TREATMENT	486.1 SQ. YDS.	
JOINT DEMOLITION	42.2 SQ. FT.	

	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	18.7 SQ. YDS.	
DECK TREATMENT	18.7 SQ. YDS.	
JOINT DEMOLITION	42.2 SQ. FT.	