

LOCATION SKETCH

INFORMATION INDICATED ON THE LOCATION SKETCH 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.

BRIDGE COORDINATES

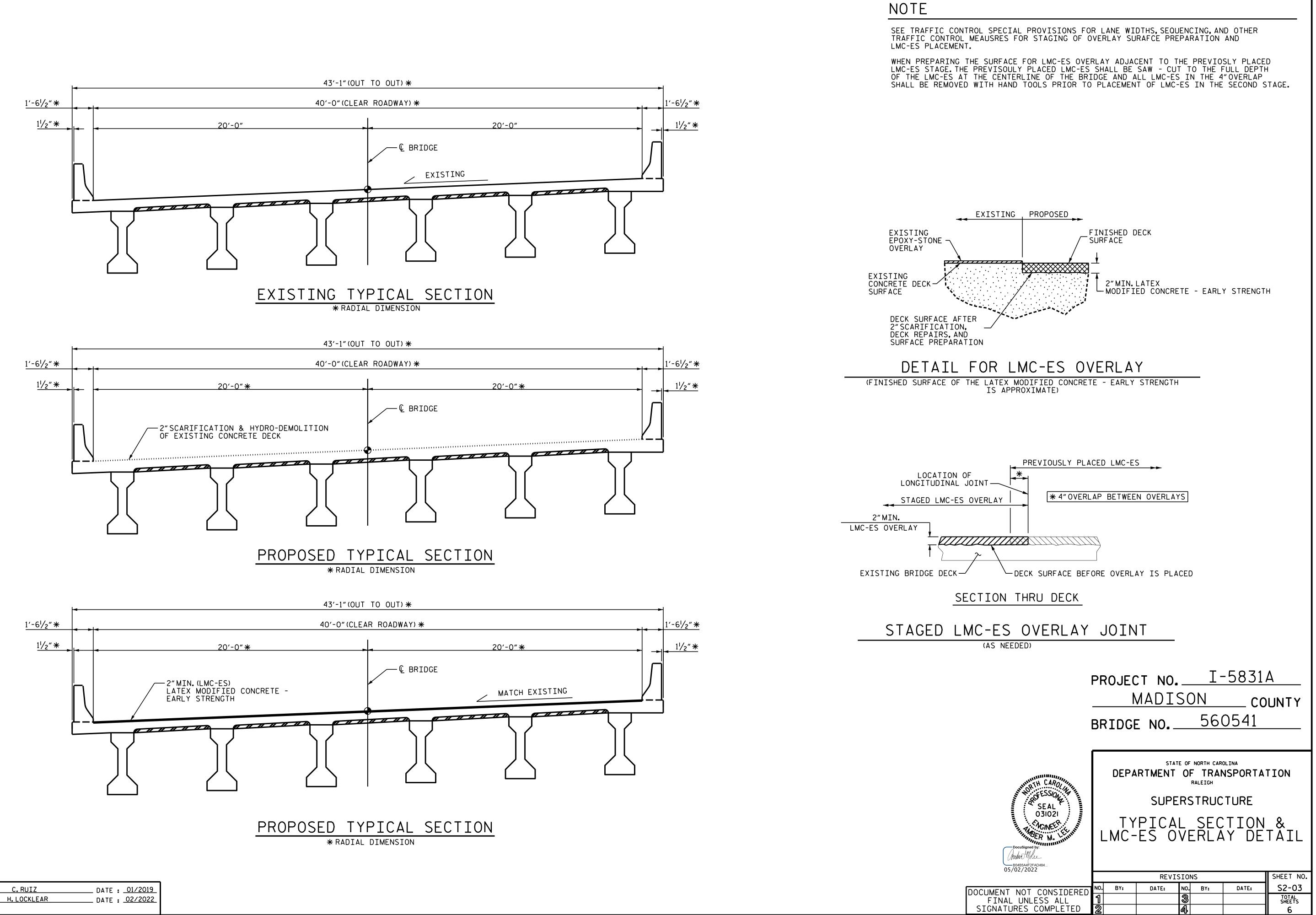
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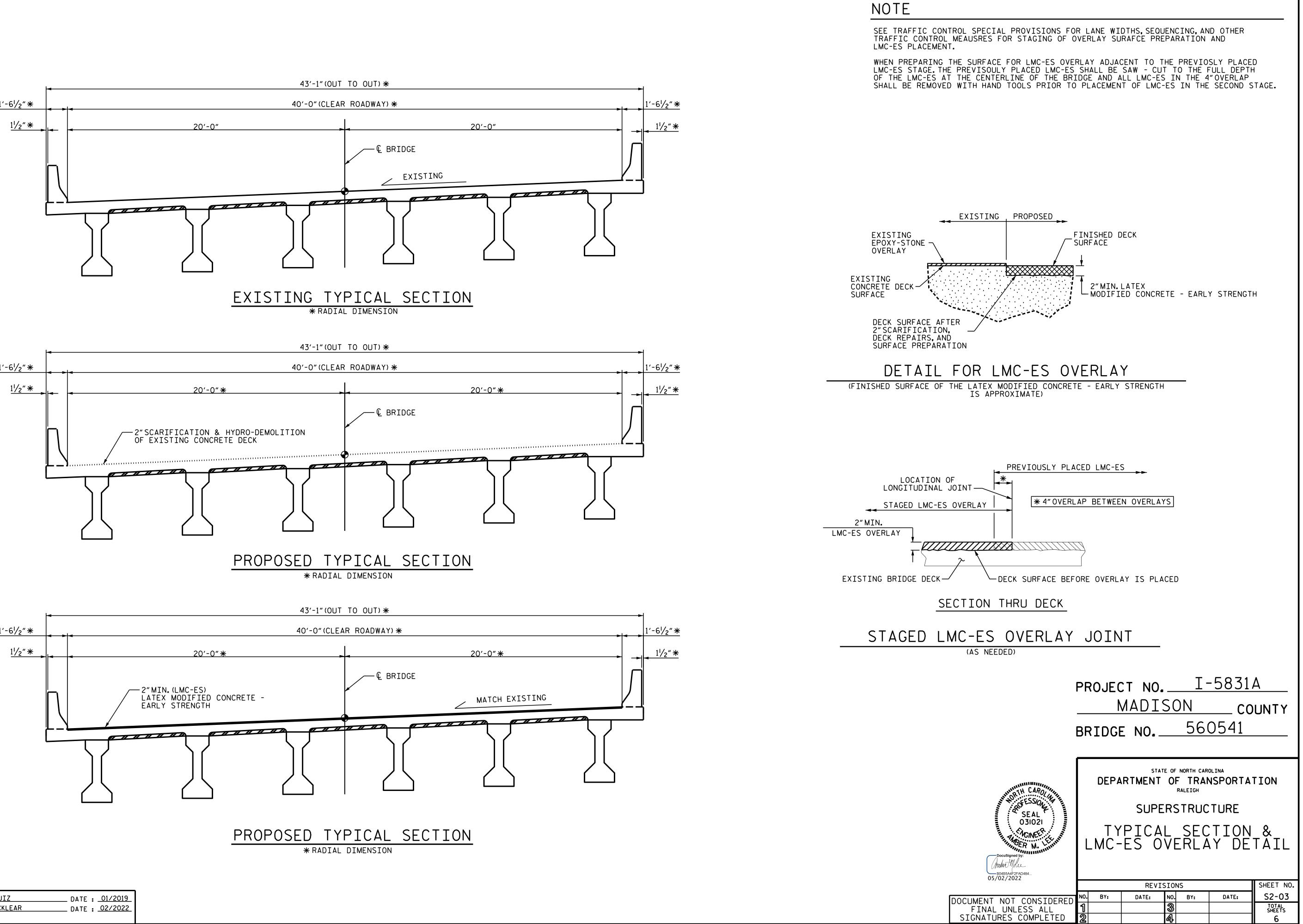
DRAWN BY :	M.ALINAGHIAN	DATE : 06/2019
CHECKED BY :	H. A. LOCKLEAR	DATE : 02/2022

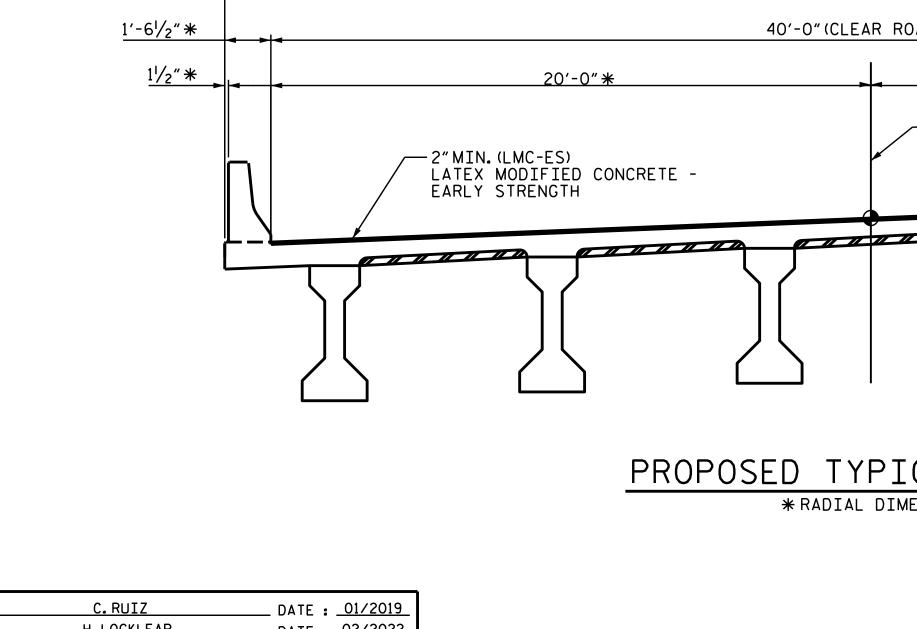
NOTES THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF THE DECK DURING

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 CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THAT 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 BRIDGES SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW. 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. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASK FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC. 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. FOR TRAFFIC CONTROL AND LIMITS OF PHASING OF CONSTRUCTION. SEE TRAFFIC CONTROL SPECIAL PROVISIONS. EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATION OF BRIDGE DECK. FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION SPECIAL PROVISION. HYDRO-DEMOLITION. FOR PLACING AND FINISHING LATEX MODIFIED CONCRETE OVERLAY-EARLY STRENGTH (LMC-ES), SEE LATEX MODIFIED CONCRETE-EARLY STRENGTH SPECIAL PROVISIONS. LONGITUDINAL CONSTRUCTION JOINTS SHALL BE LOCATED ALONG THE CENTERLINE OR EDGE OF TRAVEL LANES. DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO ENSURE HYDRO-DEMOLITION WATER DOES NOT MIGRATE INTO ACTIVE TRAVEL LANES. THE CONTRACTOR SHALL COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE OVERLAY SURFACE PREPARATION SPECIAL PROVISIONS. FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS. FOR FOAM JOINT SEAL FOR PRESERVATION, SEE SPECIAL PROVISIONS. FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS. FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS. FOR VOLUMETRIC MIXER, SEE SPECIAL PROVISIONS.

	PROJ.NO. I-5831A MADISON cou BRIDGE NO. 560541				
	SHEET 2 C)F 2			
	DEPA	STATE RTMENT	OF NORTH CARG		TION
	GENERAL DRAWING				
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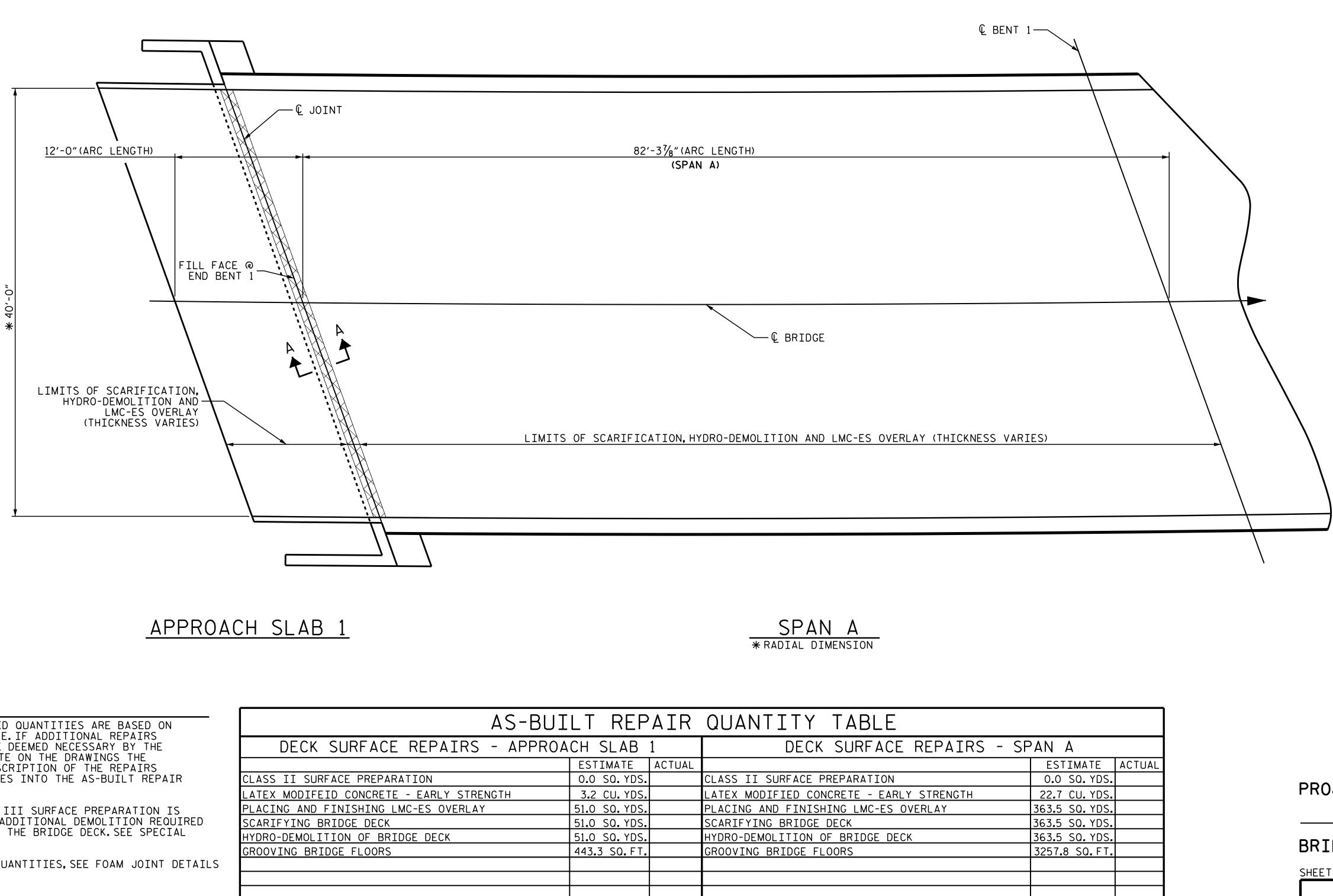




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REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE BASED ON THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PAYMENT FOR CLASS II & CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK.SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION QUANTITIES, SEE FOAM JOINT DETAILS SHEET.

CLASS II SURFACE PREPARATION ----- EPOXY RESIN INJECTION (ERI) BRIDGE JOINT DEMOLITION

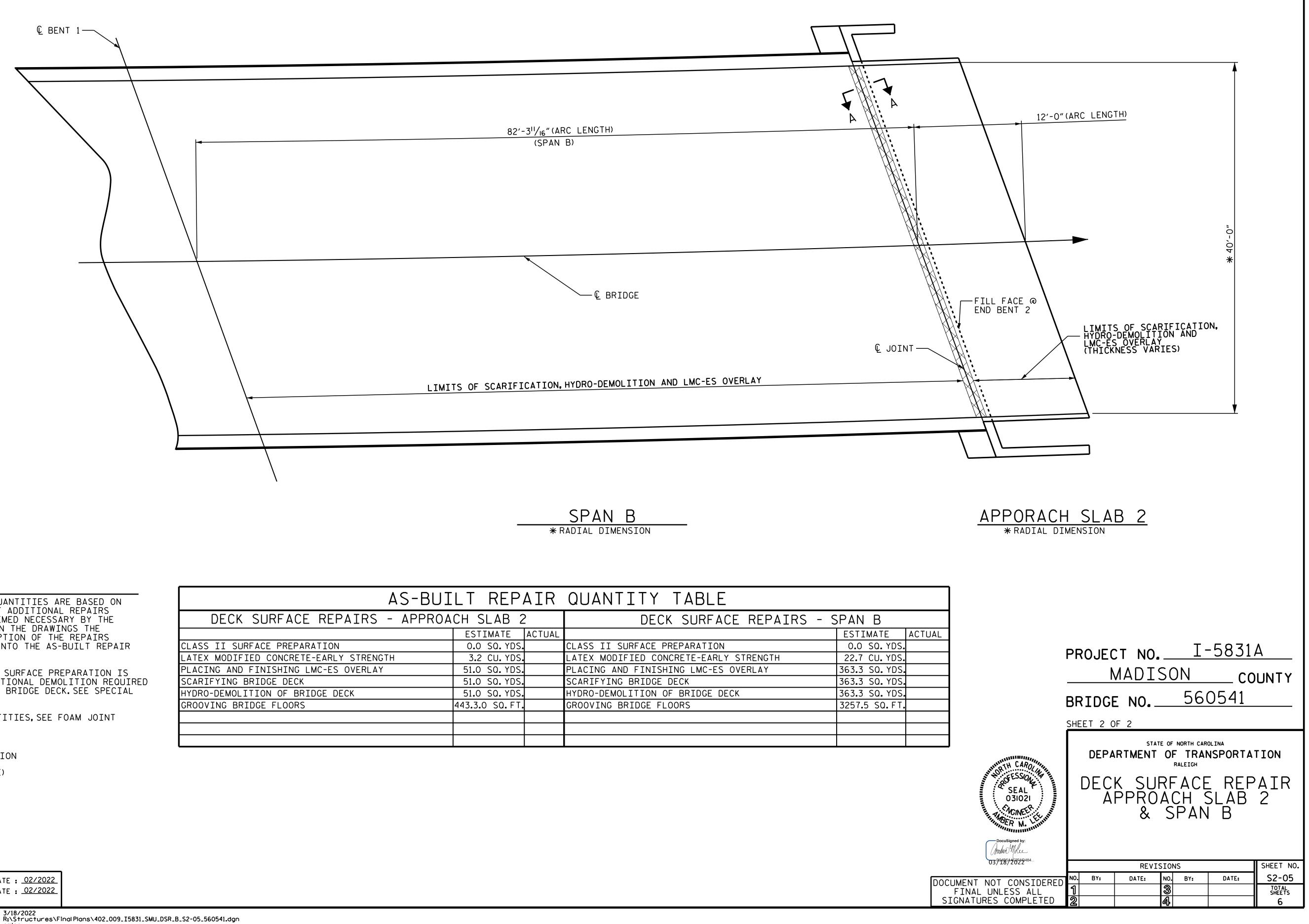
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E. CABBELL H.A.LOCKLEAR _ DATE : <u>02/2022</u> _ DATE : <u>02/2022</u>

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DS.			MADISON COUNTY
DS.			
)S. - Т.			BRIDGE NO. 560541
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			SHEET 1 OF 2
			STATE OF NORTH CAROLINA
			DEPARTMENT OF TRANSPORTATION
		SEAL 031021	RALEIGH
		ESSION A	
		SEAL 031021	DECK SURFACE REPAIR
		031021	APPROACH SLAB 1
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CLASS II SURFACE PREPARATION

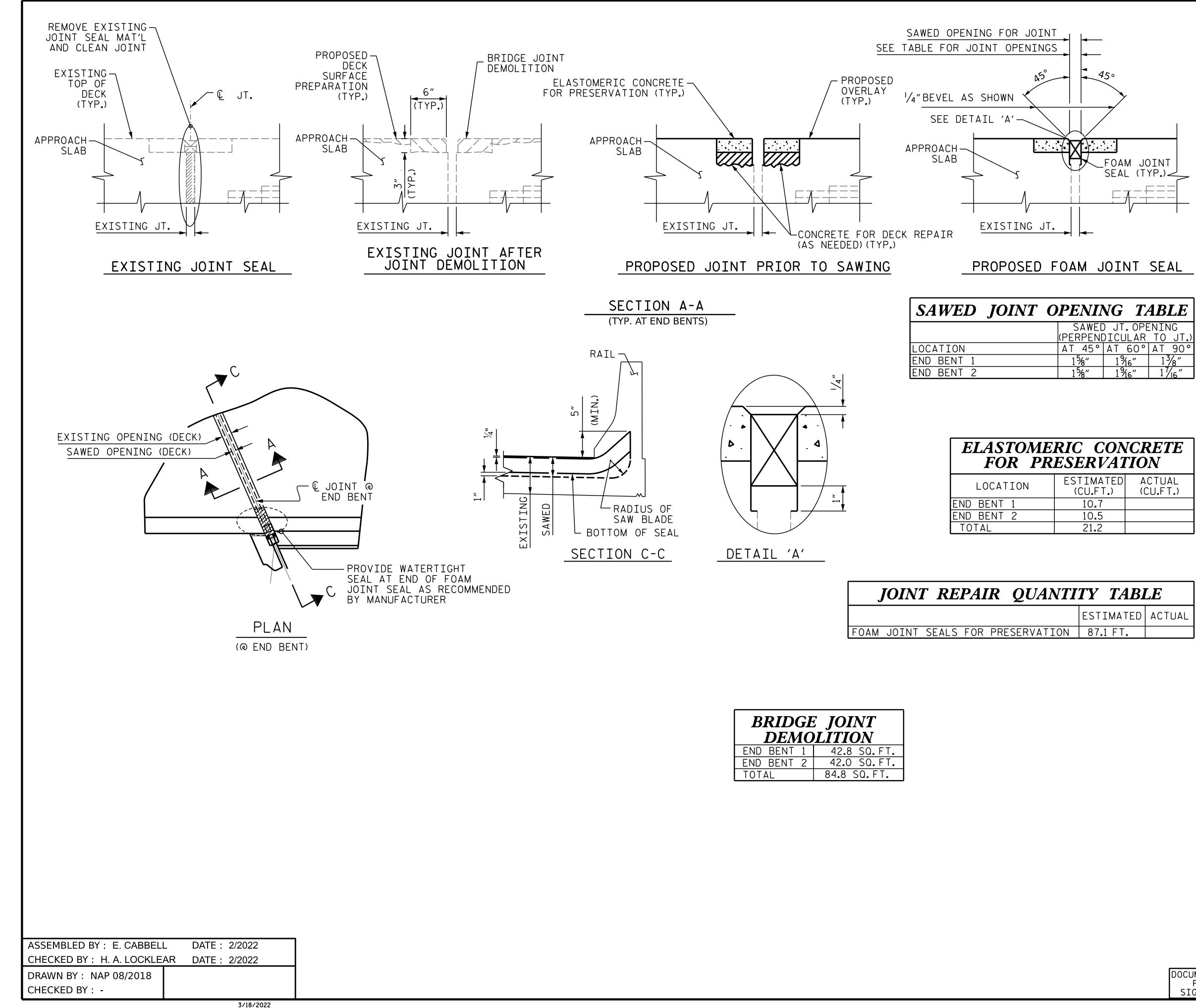


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----- EPOXY RESIN INJECTION (ERI) BRIDGE JOINT DEMOLITION

DRAWN BY : _ CHECKED BY : .

E. CABBELL H.A. LOCKLEAR _ DATE : <u>02/2022</u> _ DATE : <u>02/2022</u>



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SAWED	JOINT	OPENI	NG Z
		SAWEI (PERPENI) JT.O DICULA
LOCATION		AT 45°	AT 60
END BENT 1		15%″	1%6″
END BENT 2		15%″	1 9/16"

ELASTOME FOR PR		
LOCATION	ESTIMATED (CU.FT.)	/ (
END BENT 1	10.7	
END BENT 2	10.5	
TOTAL	21.2	

JOINT RE	PAIR QU	UANTITY	TABL
		EST	IMATED

BRIDGE JOINT DEMOLITION				
END BENT 1	42.8 SQ.FT.			
END BENT 2	42.0 SQ.FT.			
TOTAL	84.8 SQ.FT.			

NOT	ES

PLANS.

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

THE MANUFACTURER IS TO PROVIDE THE NOMINAL

FOAM JOINTS SHALL BE INSTALLED AS PER THE

MANUFACTURER'S RECOMMENDATIONS.

UNCOMPRESSED SEAL WIDTH OF THE FOAM JOINT SEAL

ACCOMODATE THE MINIMUM EXPANSION SHOWN ON THE

FOR THE SIZE OF THE OPENING ON THE PLANS AND

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 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.

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.

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

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

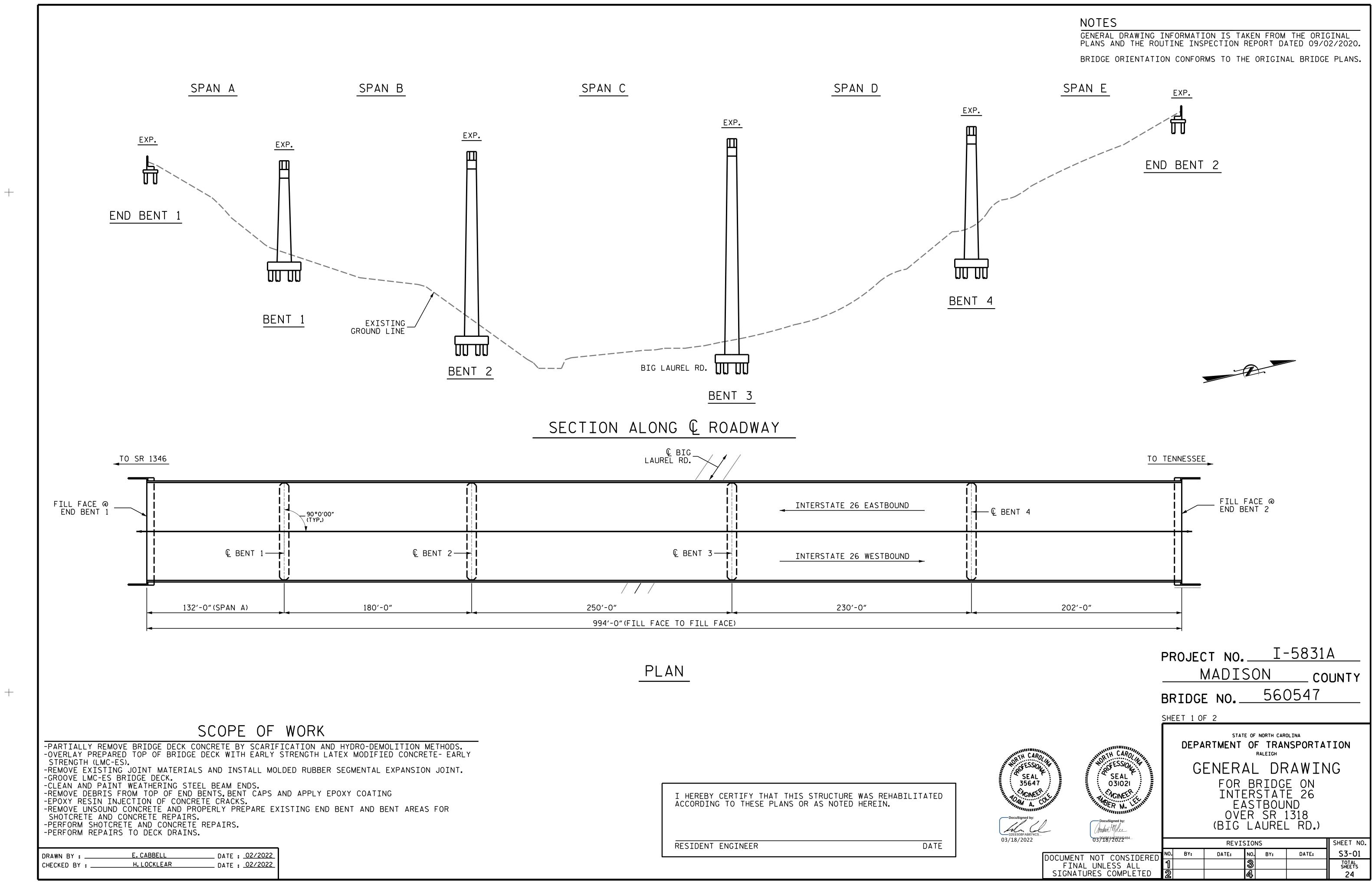
FOR CONCRETE FOR DECK REPAIR. SEE SPECIAL PROVISIONS.

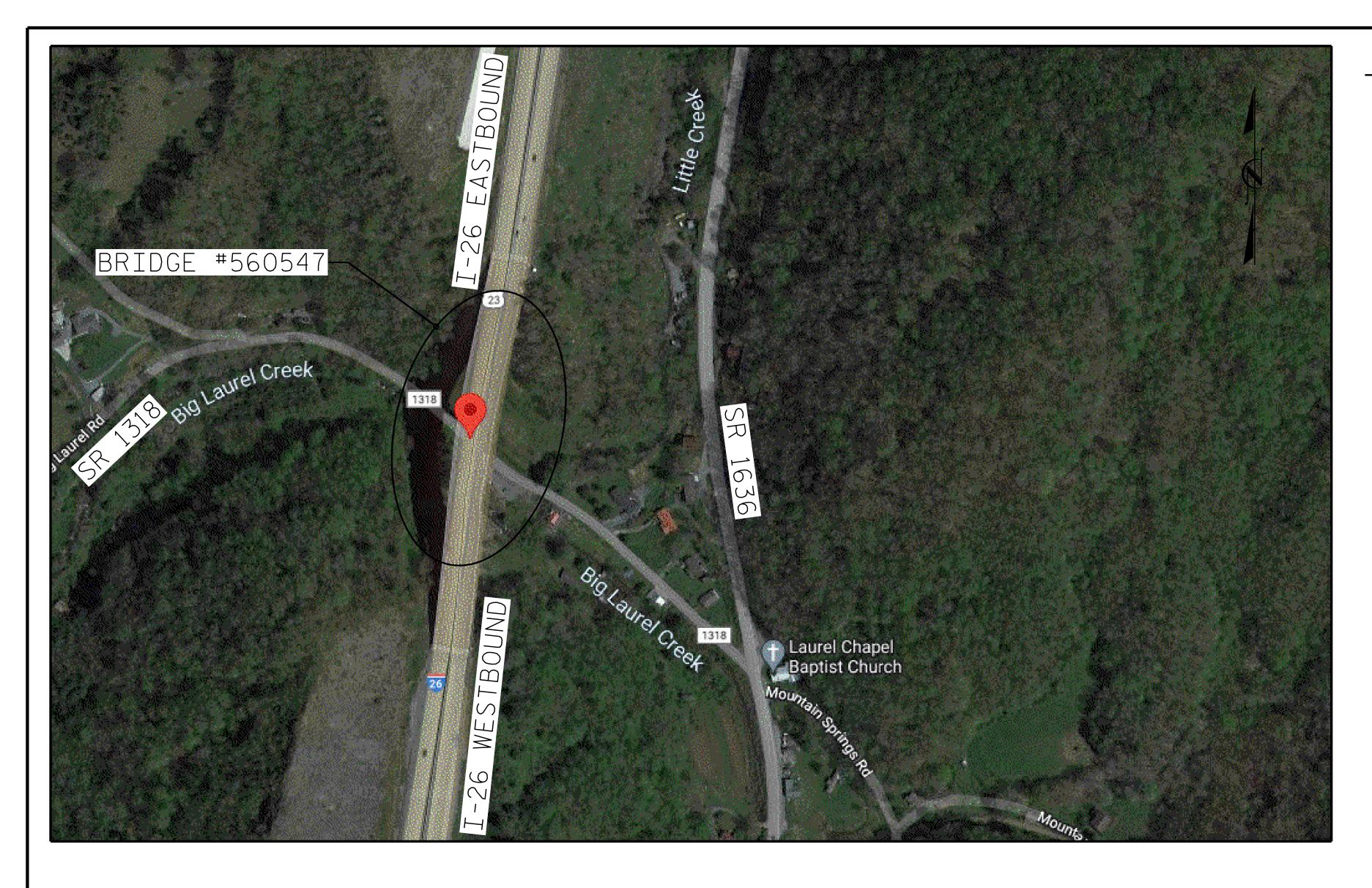
PROJECT NO. <u>1-5831A</u> MADISON _ COUNTY BRIDGE NO. 560541 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION TH CAR RALEIGH FESSION STANDARDS SEAL 031021 FOAM JOINT SEALS A GINEER FOR PRESERVATION BER M.

DETAILS

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SIGNATURES COMPLETED	2			4			6

DocuSigned by





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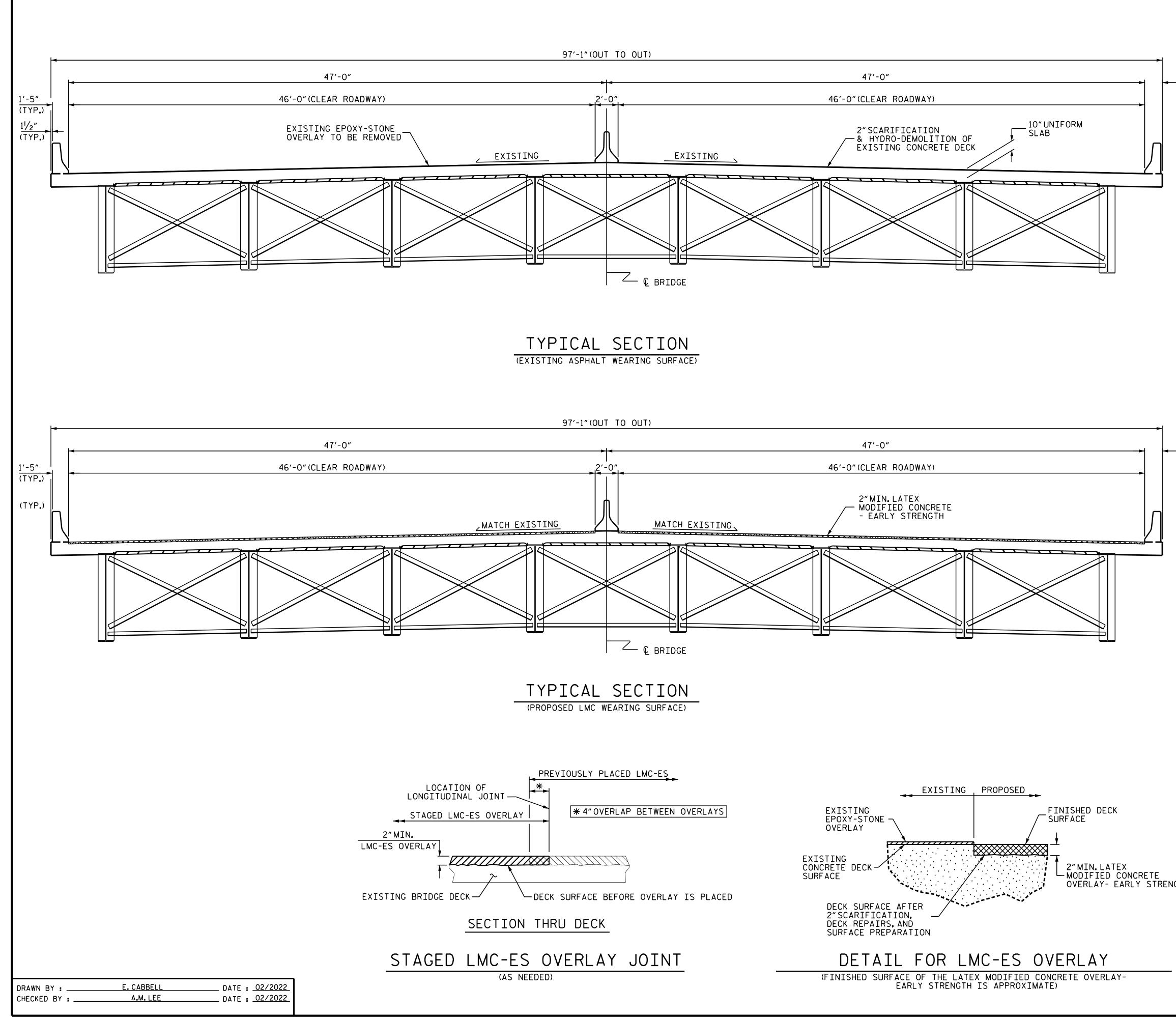
BRIDGE COORDINATES

LAT: 35.91704° LONG: -82.55788°

DRAWN BY :	M.ALINAGHIAN	DATE : 07/2019
CHECKED BY :	H. LOCKLEAR	DATE : 02/2022

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	MADISON COUNTY				UNTY
	BRIDGE NO. 560547				,
	SHEET 2 C)F 2			
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TH CAROLAN	G			RAWIN	IG
OFESSION SEAL 031021	FOR BRIDGE ON INTERSTATE 26				
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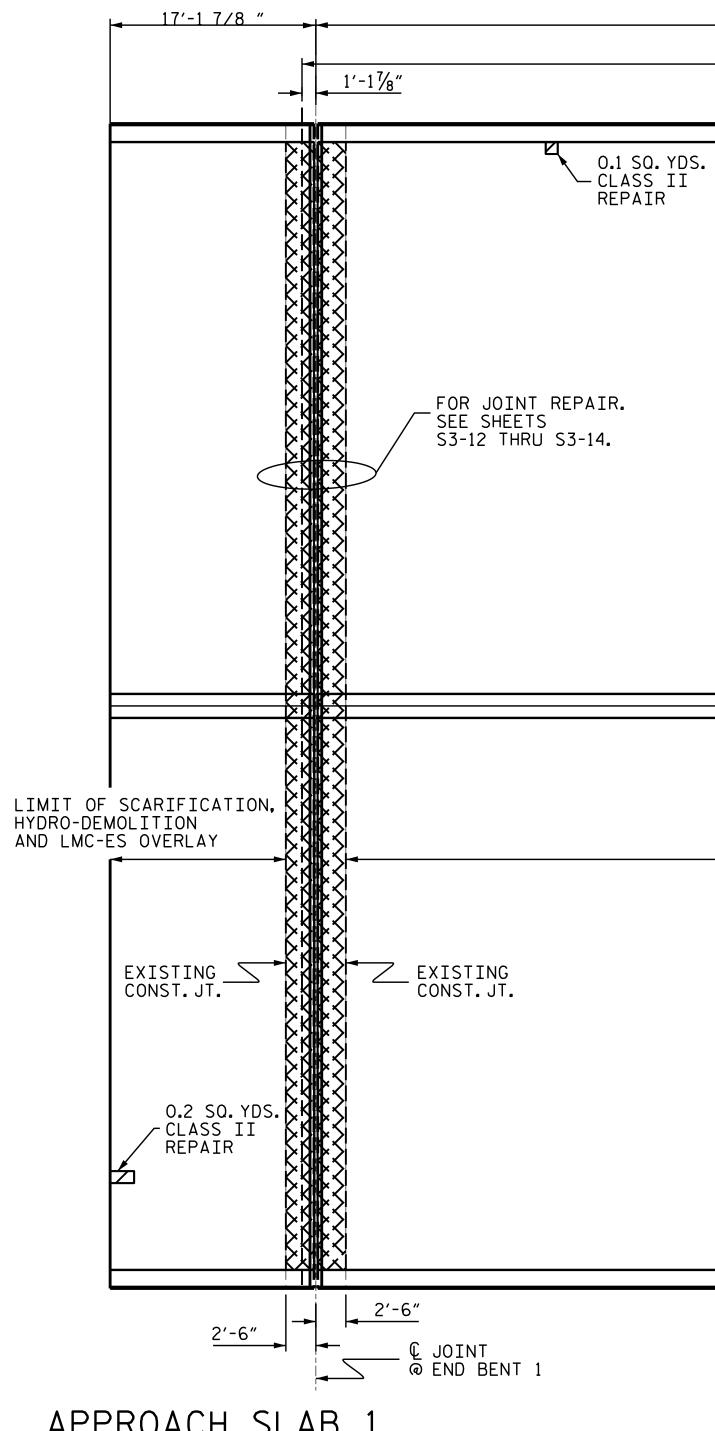
1'-6<mark>1/</mark>2"

(TYP.)

WHEN PREPARING THE SURFACE FOR LMC-ES_OVERLAY ADJACENT TO THE PREVIOUSLY PLACED LMC-ES STAGE, THE PREVIOUSLY PLACED LMC-ES SHALL BE SAW-CUT TO THE FULL DEPTH OF THE LMC-ES AT THE CENTERLINE OF THE BRIDGE AND ALL LMC-ES IN THE 4"OVERLAP SHALL BE REMOVED WITH HAND TOOLS PRIOR TO PLACEMENT OF LMC-ES IN THE SECOND STAGE.

SEE TRAFFIC CONTROL SPECIAL PROVISIONS FOR LANE WIDTHS, SEQUENCING, AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND LMC-ES PLACEMENT.

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AS-E	BUILT REP	AIR	QUANTITY TABLE		
DECK SURFACE REPAIRS - APF	PROCH SLAB 1		DECK SURFACE REPAIRS -	SPAN A	
	ESTIMATE	ACTUAL		ESTIMATE	ACTUAL
CLASS II SURFACE PREPARATION	0.2 SQ. YDS.		CLASS II SURFACE PREPARATION	0.1 SQ. YDS.	
LATEX MODIFIEC CONCRETE-EARLY STRENGTH	9.4 CU. YDS.		LATEX MODIFIED CONCRETE-EARLY STRENGTH	82.0 CU.YDS.	
PLACING AND FINISHING LMC-ES OVERLAY	149.8 SQ. YDS.		PLACING AND FINISHING LMC-ES OVERLAY	1312.0 SQ. YDS.	
SCARIFYING BRIDGE DECK	149.8 SQ. YDS.		SCARIFYING BRIDGE DECK	1312.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	149.8 SQ. YDS.		HYDRO-DEMOLITION OF BRIDGE DECK	1312.0 SQ. YDS.	
GROOVING BRIDGE FLOORS	1232 SQ.FT.		GROOVING BRIDGE FLOORS	11024 SQ.FT.	

DRAWN BY : _ CHECKED BY :

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E. CABBELL H.A. LOCKLEAR __ DATE : <u>02/2022</u> _ DATE : <u>02/2022</u> 132'-0"

└─ @ BRIDGE

LIMITS OF SCARIFICATION, HYDRO-DEMOLITION, AND LMC-ES OVERLAY

SPAN A

NOTES

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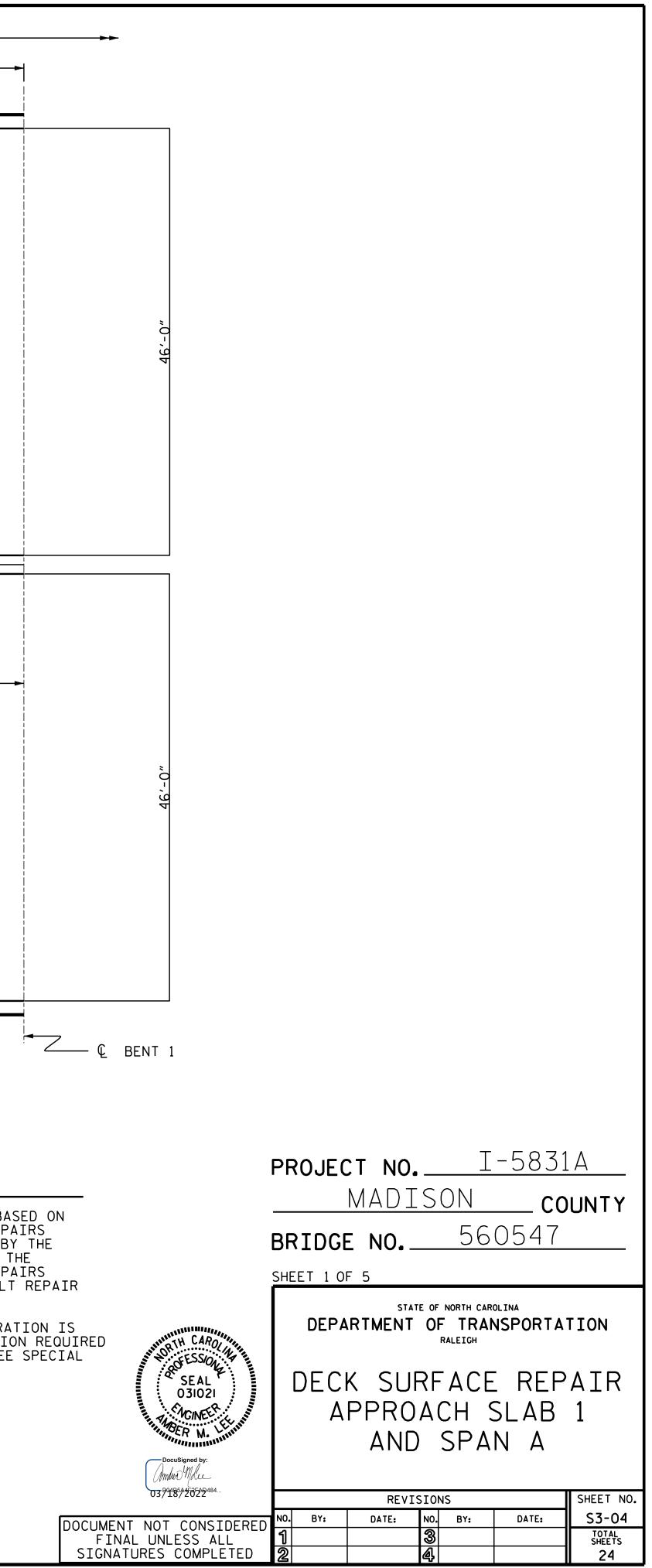
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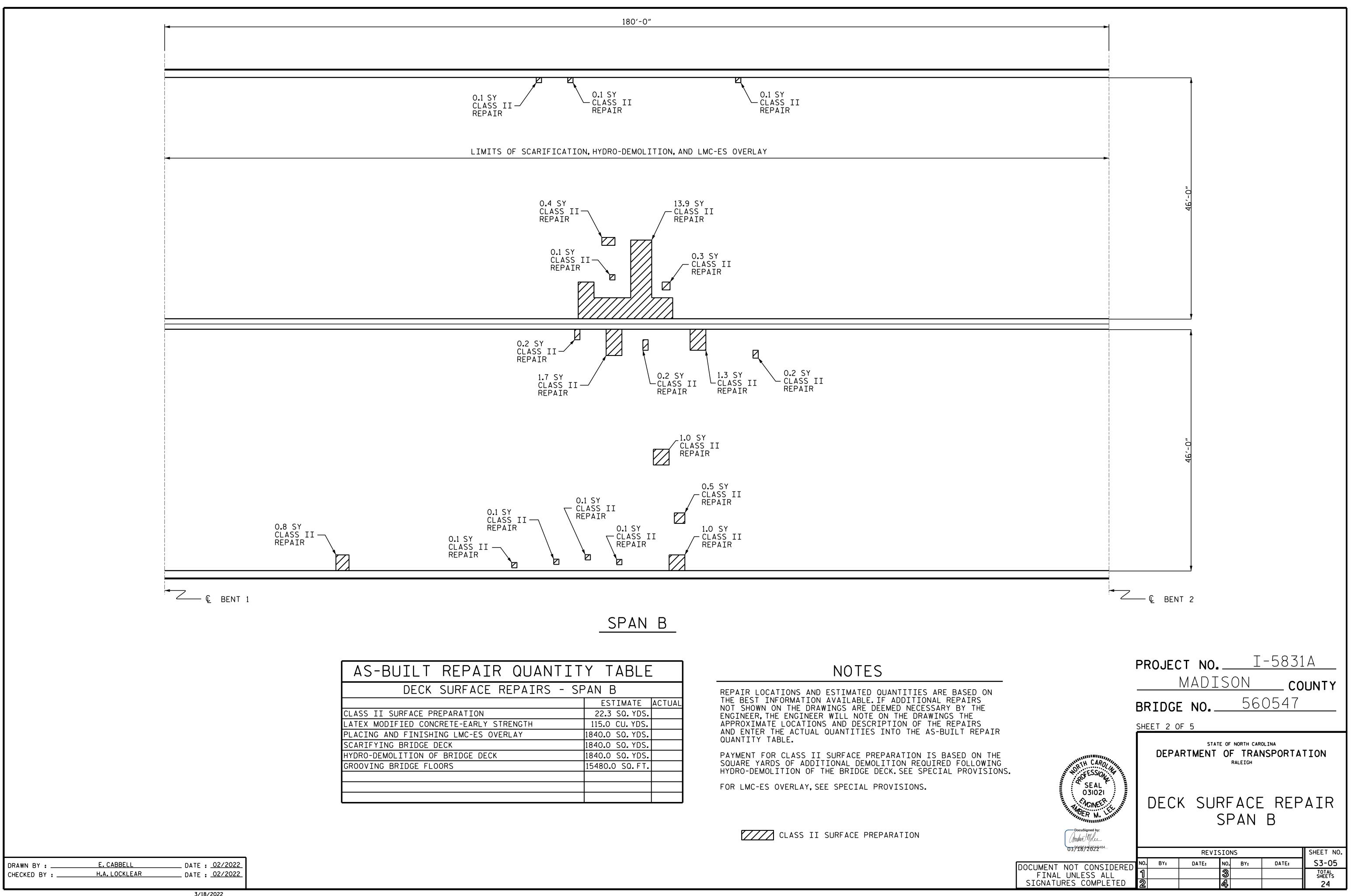
FOR LMC-ES OVERLAY, SEE SPECIAL PROVISIONS.

FOR JOINT REPAIR QUANTITIES, SEE SHEET S3-13.

CLASS II SURFACE PREPARATION

JOINT REPAIR



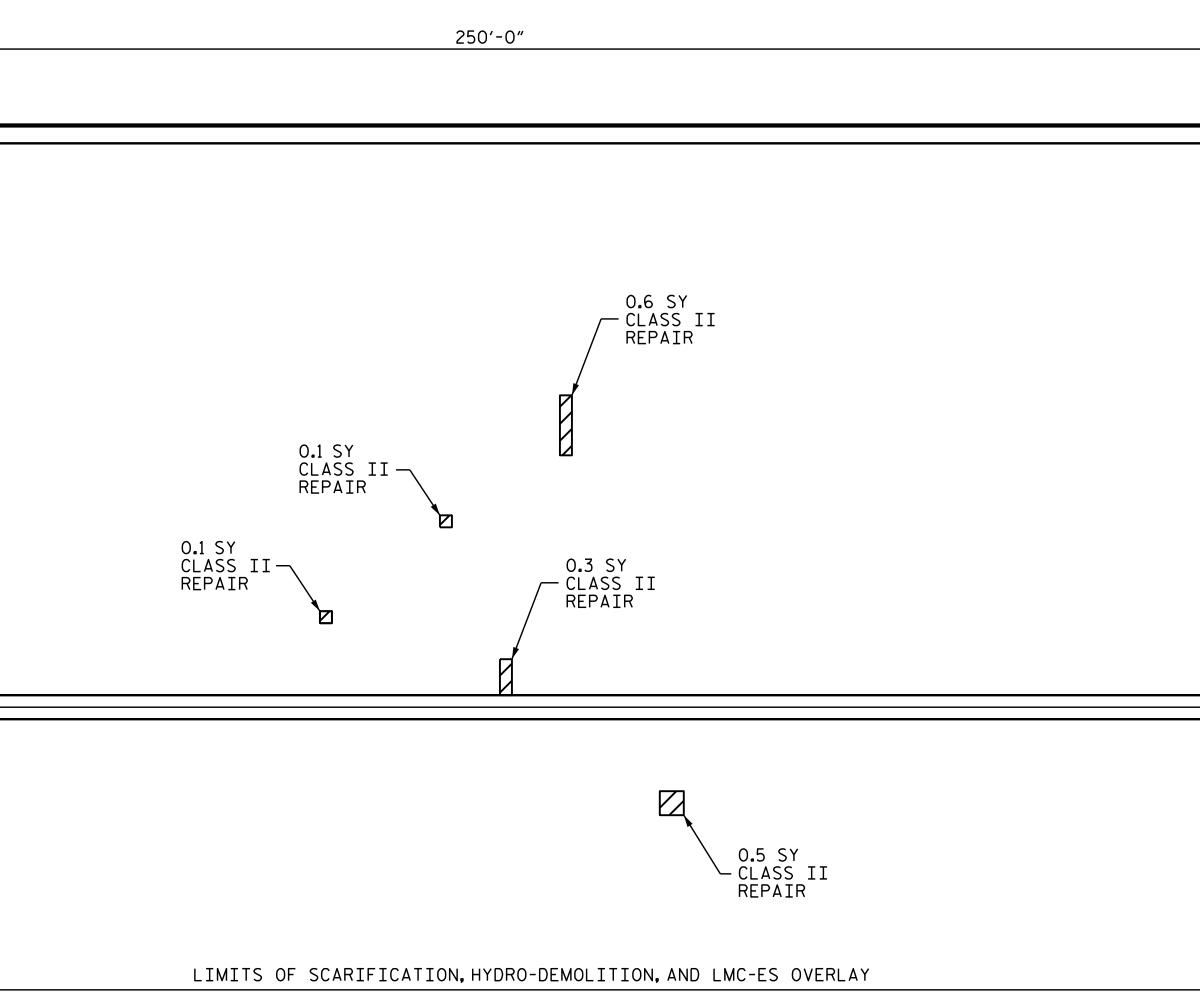


PAIR QUANTITY TABLE				
FACE REPAIRS - SPAN B				
	ESTIMATE ACTUAL			
TION	22.3 SQ. YDS.			
EARLY STRENGTH	115.0 CU. YDS.			
C-ES OVERLAY	1840.0 SQ. YDS.			
	1840.0 SQ. YDS.			
GE DECK	1840.0 SQ. YDS.			
	15480.0 SQ.FT.			

-			
46'-0"			
46'-0"			
			4.0 SY CLASS II REPAIR
E BENT 2	2		AS-BUIL DE
			CLASS II SURFAC LATEX MODIFIED PLACING AND FIN SCARIFYING BRID HYDRO-DEMOLITIC GROOVING BRIDGE

DRAWN BY :E. CABBELLDATE :02/2022CHECKED BY :H.A. LOCKLEARDATE :02/2022

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REPAIR QUANTIT	Y TABLE	-
SURFACE REPAIRS - SF	PAN C	
	ESTIMATE	ACTUAL
PREPARATION	8.3 SQ. YDS.	
NCRETE-EARLY STRENGTH	159.7 CU.YDS.	
HING LMC-ES OVERLAY	2555.6 SQ.YDS.	
DECK	2555.6 SQ.YDS.	
OF BRIDGE DECK	2555.6 SQ.YDS.	
_OORS	21500.0 SQ.FT.	

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2.7 SY /- CLASS II REPAIR

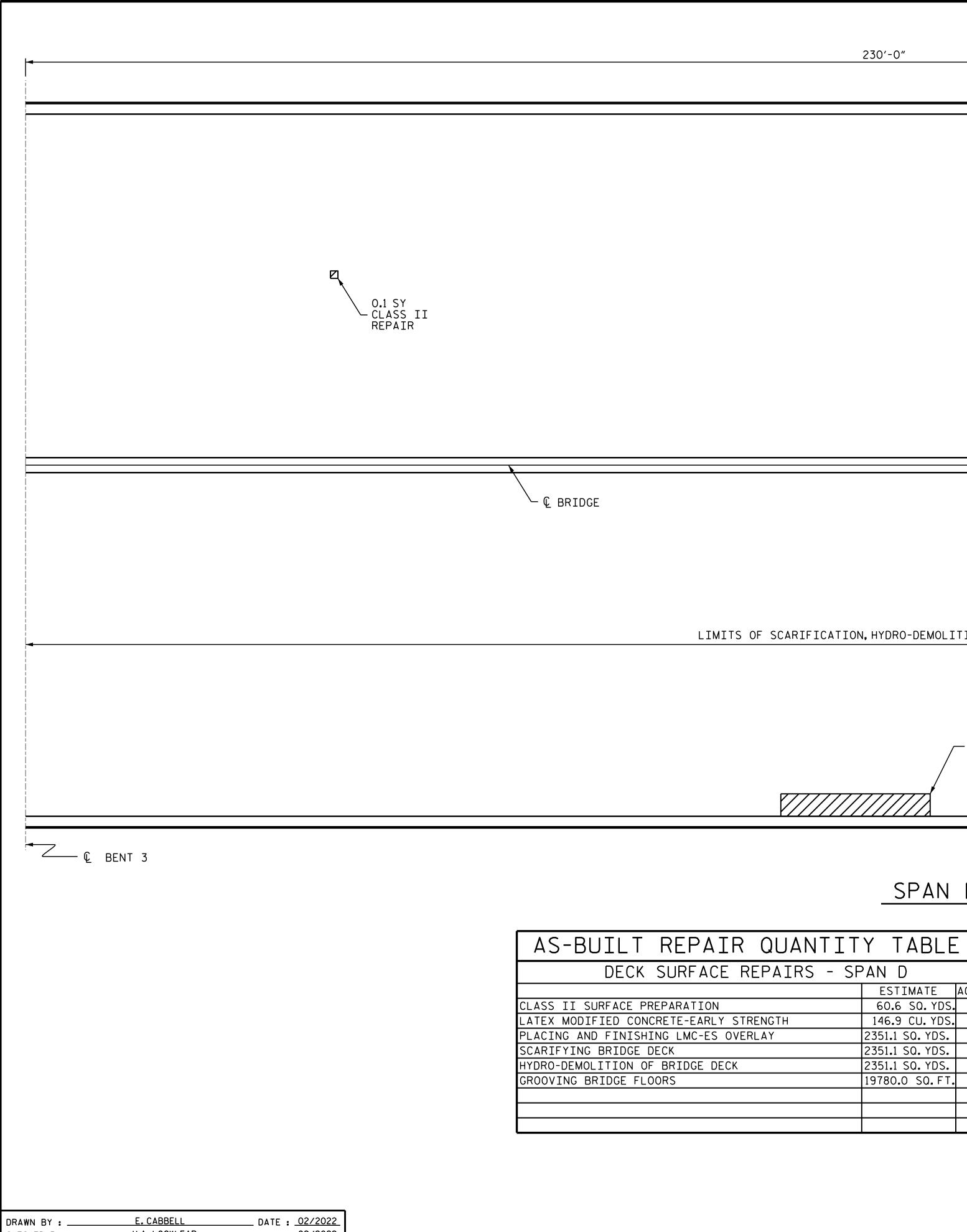
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FOR LMC-ES OVERLAY, SEE SPECIAL PROVISIONS.

CLASS II SURFACE PREPARATION

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/─ € BRIDGE
© BENT 3
PROJECT NO. <u>I-5831A</u>
MADISON COUNTY
THE BRIDGE NO. 560547
IRS SHEET 3 OF 5
ON THE DEPARTMENT OF TRANSPORTATION
LLOWING OVISIONS.
DECK SURFACE REPAIR
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REPAIR LOCATIONS AND ESTIMATED 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 LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR

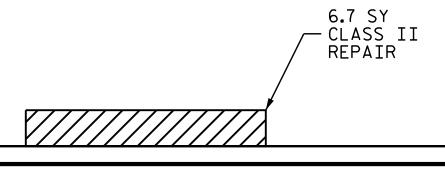
QUANTITY TABLE.

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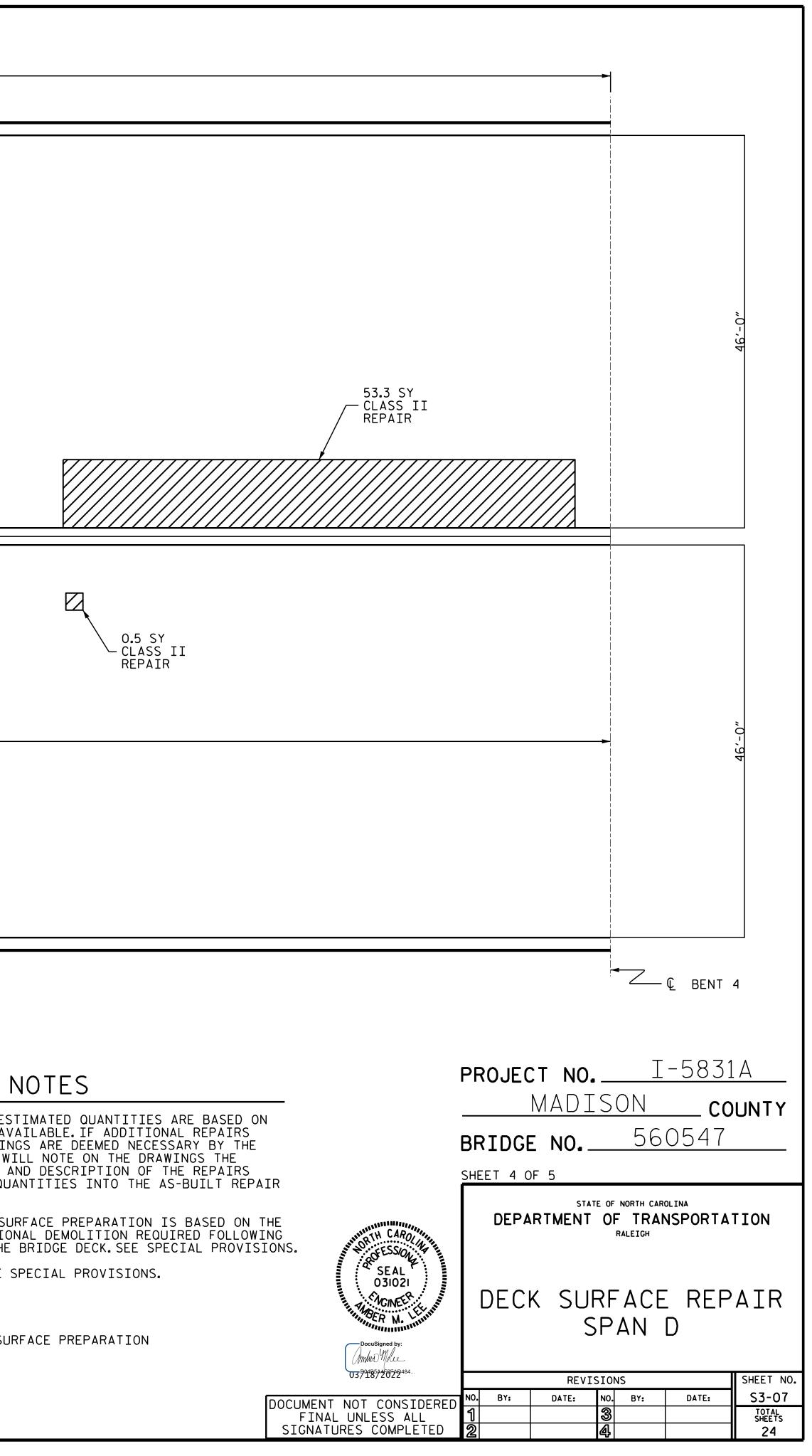
FOR LMC-ES OVERLAY, SEE SPECIAL PROVISIONS.

JRFACE REPAIRS - SF	AN D	
	ESTIMATE	ACTUAL
ARATION	60.6 SQ. YDS.	
TE-EARLY STRENGTH	146.9 CU.YDS.	
LMC-ES OVERLAY	2351.1 SQ. YDS.	
<	2351.1 SQ. YDS.	
RIDGE DECK	2351.1 SQ. YDS.	
S	19780.0 SQ.FT.	

SPAN D



LIMITS OF SCARIFICATION, HYDRO-DEMOLITION, AND LMC-ES OVERLAY





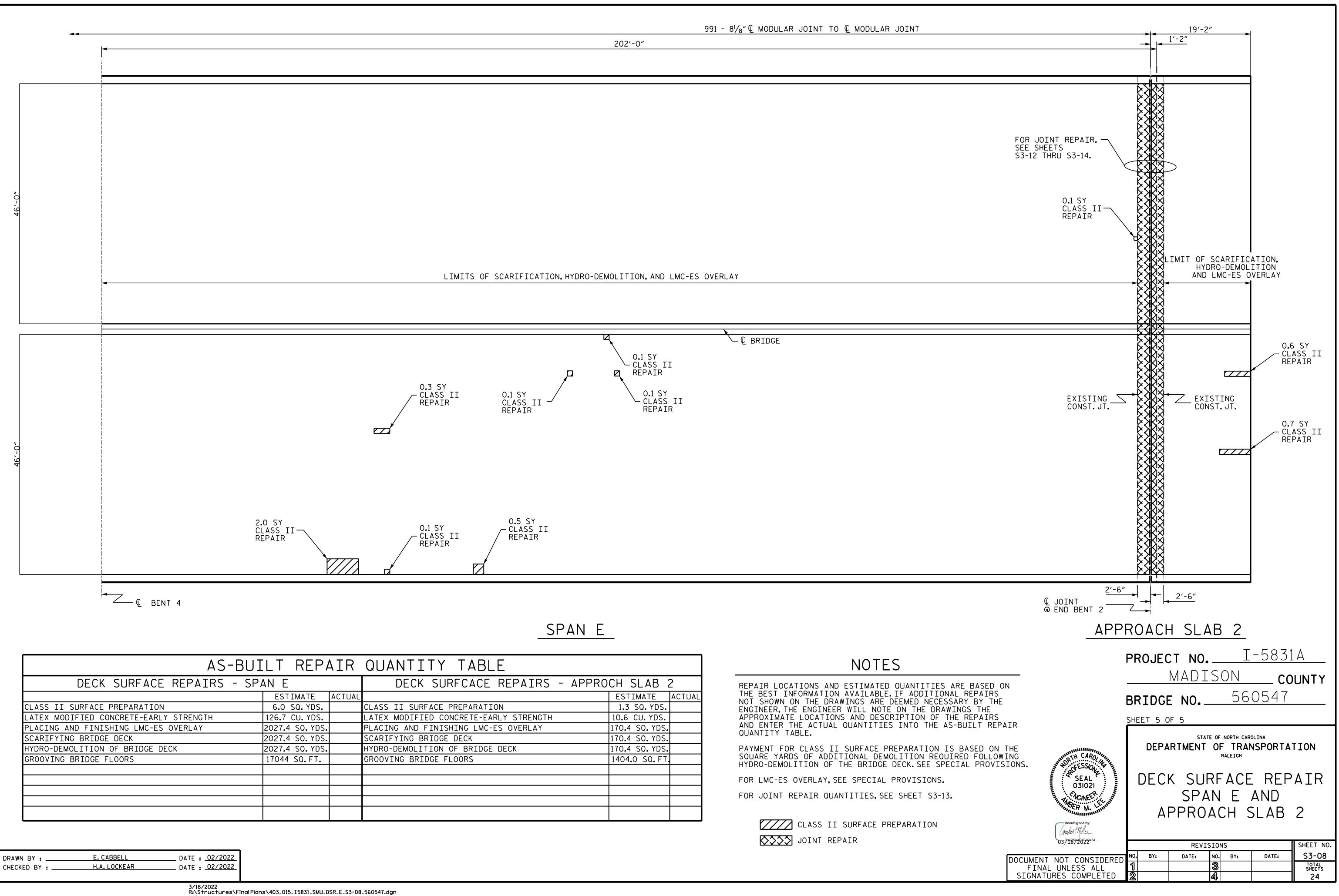
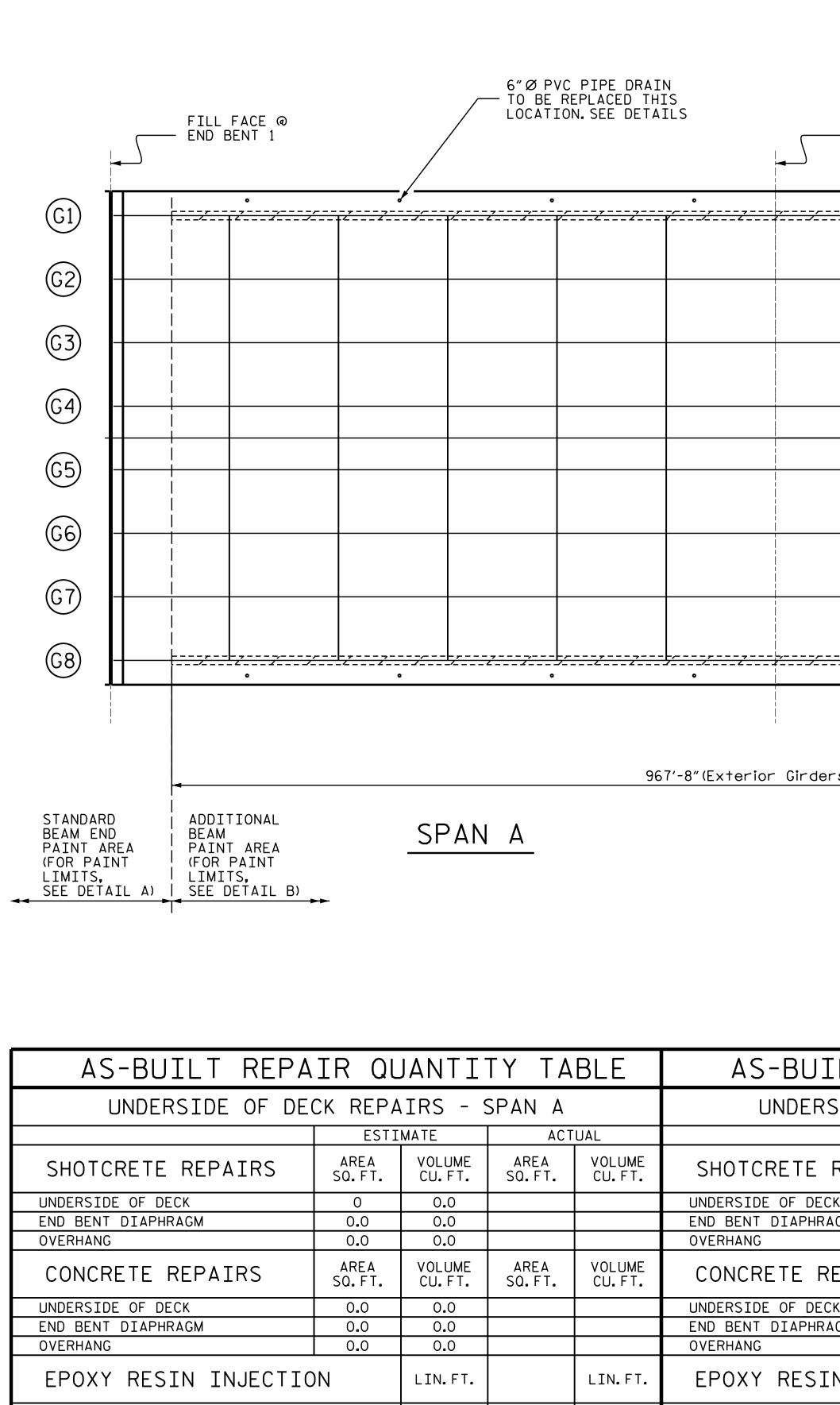


TABLE		
FCACE REPAIRS - APPRO	CH SLAB 2	2
	ESTIMATE	ACTUAL
EPARATION	1.3 SQ. YDS.	
RETE-EARLY STRENGTH	10.6 CU. YDS.	
NG LMC-ES OVERLAY	170.4 SQ. YDS.	
ECK	170.4 SQ. YDS.	
BRIDGE DECK	170.4 SQ. YDS.	
ORS	1404.0 SQ.FT.	



UNDERSIDE OF DECK

END BENT DIAPHRAGM

DECK DRAIN REPAIR

DECK DRAIN REPAIR

E CABBELL

H.A. LOCKLEAR

OVERHANG

DRAWN BY : ___

CHECKED BY : _

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EACH

0.0

0.0

0.0

EACH

8.0

__ DATE : <u>02/2022</u>

DATE : 02/2022

ALL PVC PLASTIC PIPE DRAINS, SHALL HAVE EXTENSIONS ADDED, SEE DETAILS SHEET S3-10 Q BENT 2							
0	()	\$	0	٥	٥		0
		,	 				
		L					
•	-	<i>-</i> ///////		/ o	·///. •	/_	•
			2.8 SF OVERHANG DECK REPAIR				
rs G1 ar	nd G8 - ¥6″U	P WEB AND BOT	TOM FLANGE)				

SPAN B

AS-BUILT REPAIR QUANTITY TABLE								
UNDERSIDE OF DECK REPAIRS - SPAN B								
	ESTI	ΜΑΤΕ	ACT	UAL				
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.				
UNDERSIDE OF DECK	0.0	0.0						
END BENT DIAPHRAGM	0.0	0.0						
OVERHANG	2.8	0.9						
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.				
UNDERSIDE OF DECK	0.0	0.0						
END BENT DIAPHRAGM	0.0	0.0						
OVERHANG	0.0	0.0						
EPOXY RESIN INJECTIO)N	LIN.FT.		LIN.FT.				
UNDERSIDE OF DECK		0.0						
END BENT DIAPHRAGM		0.0						
OVERHANG		0.0						
DECK DRAIN REPAIR	EACH	EA	7СН					
DECK DRAIN REPAIR		12.0						

NOTES

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR UNDERSIDE OF DECK REPAIRS. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

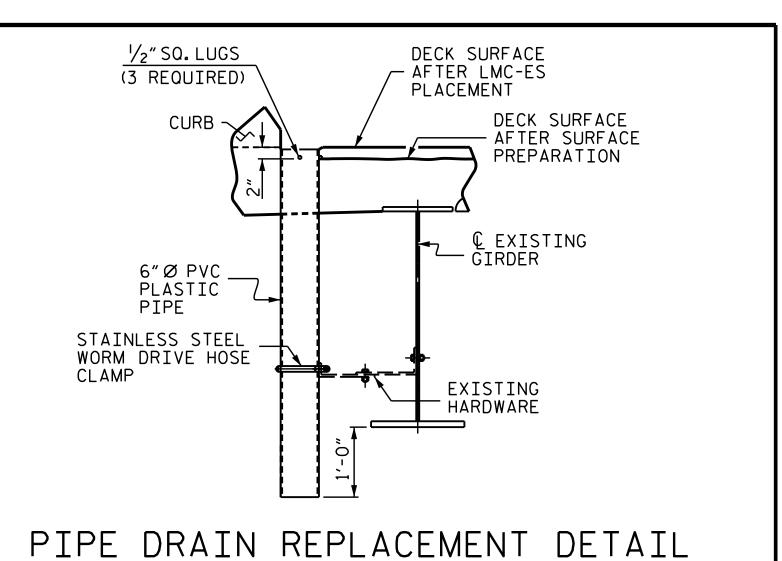
SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR DECK DRAIN REPAIRS, SEE SPECIAL PROVISIONS. FOR PAINTING EXISTING WEATHERING STEEL, SEE

SPECIAL PROVISIONS. ADDITIONAL BEAM PAINTING SHALL BE UNDER THE PAY BID ITEM "PAINTING EXISTING WEATHERING STEEL."

SHOTCRETE REPAIR AREA

_____ ADDITIONAL BEAM PAINT AREA



NOTES:

REPLACEMENT OF 6" Ø PIPE DRAIN SHALL TAKE PLACE BEFORE PLACEMENT OF LMC OVERLAY.

THE AREA AROUND THE EXISTING PIPE DRAIN SHALL BE EXCAVATED PRIOR TO REMOVING AND INSTALLING THE NEW PIPE DRAIN.

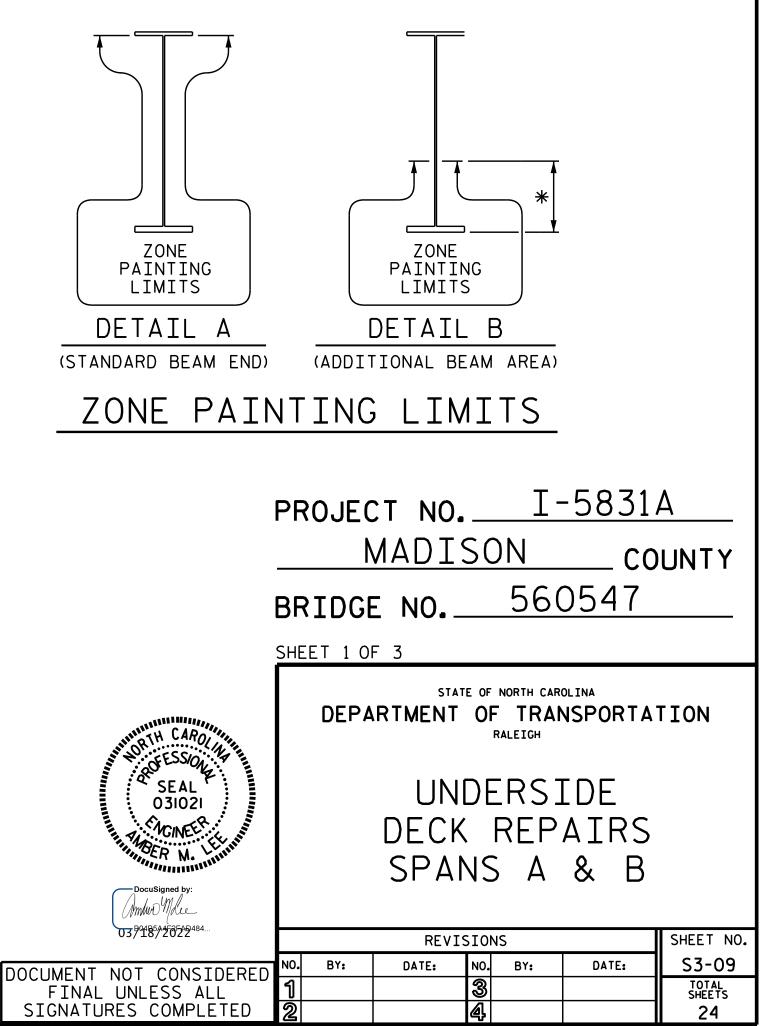
COUPLING IN DRAIN PIPE WILL BE PERMITTED AS APPROVED BY THE ENGINEER.

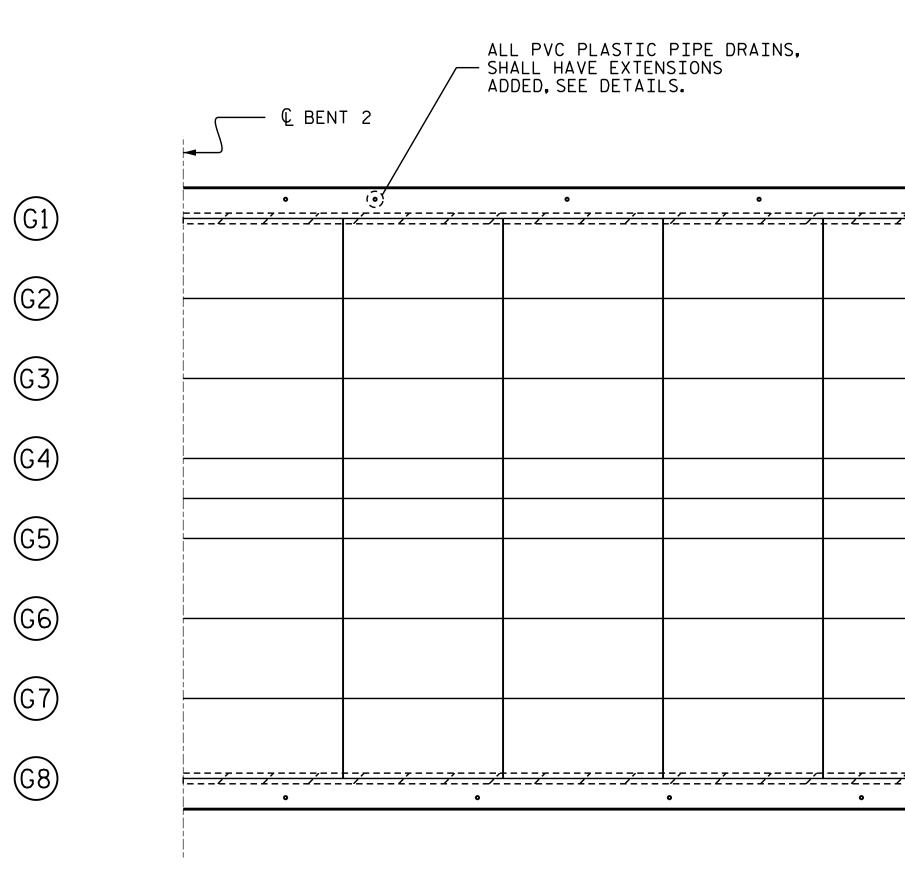
TOP OF FLOOR DRAIN TO BE SET $\frac{3}{6}$ "BELOW SURFACE OF OVERLAY.

3- $\frac{1}{2}$ " SQUARE LUGS TO BE GLUED TO THE PVC PLASTIC PIPE AT EQUAL SPACES AROUND THE PIPE DRAIN APPROXIMATELY 2"FROM THE TOP OF THE PIPE.

STAINLESS STEEL WORM DRIVE HOSE CLAMP SHALL BE COMMERCIAL QUALITY.

THE 6" Ø PVC PLASTIC PIPE AND FITTINGS SHALL BE SCHEDULE 40 AND CONFORM TO ASTM D1785.





967'-8"(Exterior Girders G1 and G8 - *6"UP WEB AND BOTTOM FLANGE)

AS-BUILT REPAIR QUANTITY TABLE							
UNDERSIDE OF DECK REPAIRS - SPAN C							
	ESTI	ΜΑΤΕ	ACT	UAL			
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.			
UNDERSIDE OF DECK	0.0	0.0					
END BENT DIAPHRAGM	0.0	0.0					
OVERHANG	4.7	1.6					
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.			
UNDERSIDE OF DECK	0.0	0.0					
END BENT DIAPHRAGM	0.0	0.0					
OVERHANG	0.0	0.0					
EPOXY RESIN INJECTIC	N	LIN.FT.		LIN.FT.			
UNDERSIDE OF DECK		0.0					
END BENT DIAPHRAGM		0.0					
OVERHANG	0.0						
DECK DRAIN REPAIR	EACH	EA	.CH				
DECK DRAIN REPAIR		11					

DRAWN BY :	E CABBELL	DATE :	02/2022
CHECKED BY :	H.A. LOCKLEAR	DATE :	02/2022

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	4.7 SF - OVERHANG REPAIR	EBENT 3			
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			<u></u>	 	
	o			•	

SPAN C

NOTES

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR UNDERSIDE OF DECK REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR DECK DRAIN REPAIRS, SEE SPECIAL PROVISIONS.

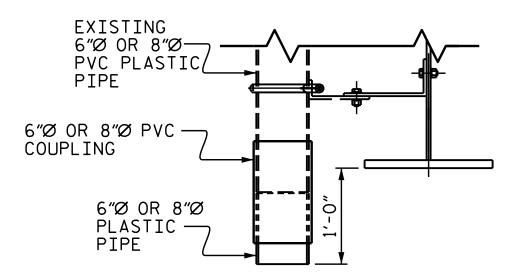
FOR PAINTING EXISTING WEATHERING STEEL, SEE SPECIAL PROVISIONS.

ADDITIONAL BEAM PAINTING SHALL BE UNDER THE PAY BID ITEM "PAINTING EXISTING WEATHERING STEEL."



SHOTCRETE REPAIR AREA

_____ ADDITIONAL BEAM PAINT AREA

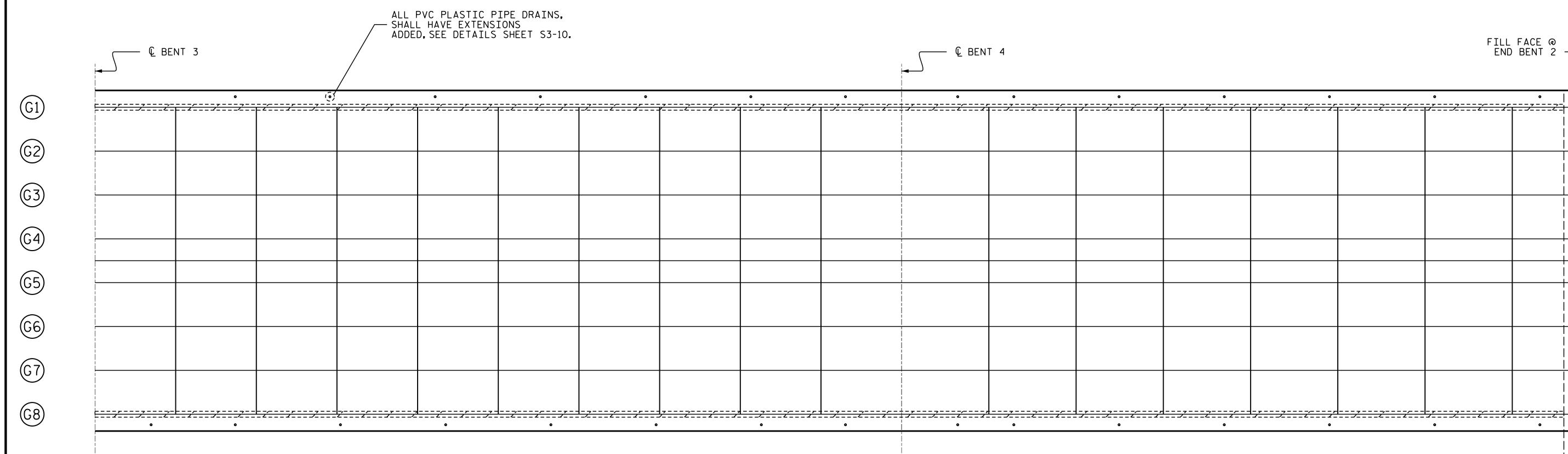


6" OR 8" PIPE DRAIN EXTENSION DETAIL

NOTES

STAINLESS STEEL WORM DRIVE HOSE CLAMP SHALL BE COMMERCIAL QUALITY. THE PVC PLASTIC PIPE, COUPLER AND FITTINGS SHALL BE SCHEDULE 40 AND CONFORM TO ASTM D1785.

		MADIS E NO	SON	<u>-5831</u> co <u>0547</u>	A UNTY
SEAL O31021 Docusigned by: Manual Manual Street Docusigned by: Manual Street Manual Street Manual Street St	DEPA	rtment UNI DECK	e of north car OF TRAI RALEIGH DERS DERS NEP	NSPORTA IDE AIRS	TION
03月4872022484		REVIS			SHEET NO.
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SPAN D

AS-BUILT REPAIR QUANTITY TABLE					AS-BUILT REPAIR QUANTITY TABLE				
UNDERSIDE OF DE	CK REPA	AIRS - S	SPAN D		UNDERSIDE OF DE	CK REPA	AIRS - S	SPAN E	
	ESTI	MATE	ACT	UAL		ESTI	MATE	ACTUAL	
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
UNDERSIDE OF DECK	0.0	0.0			UNDERSIDE OF DECK	0.0	0.0		
END BENT DIAPHRAGM	0.0	0.0			END BENT DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0			OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	CONCRETE REPAIRS		VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
UNDERSIDE OF DECK	0.0	0.0			UNDERSIDE OF DECK	0.0	0.0		
END BENT DIAPHRAGM	0.0	0.0			END BENT DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0			OVERHANG	0.0	0.0		
EPOXY RESIN INJECTIO	EPOXY RESIN INJECTION			LIN.FT.	EPOXY RESIN INJECTION		LIN.FT.		LIN.FT.
UNDERSIDE OF DECK		0.0			UNDERSIDE OF DECK		0.0		
END BENT DIAPHRAGM		0.0			END BENT DIAPHRAGM		0.0		
OVERHANG		0.0			OVERHANG		0.0		
DECK DRAIN REPAIR		ЕАСН	E	АСН	DECK DRAIN REPAIR		EACH	E	АСН
DECK DRAIN REPAIR		16			DECK DRAIN REPAIR 14				

DRAWN BY : ____ CHECKED BY : __

E CABBELL H.A. LOCKLEAR

_____ DATE _____ DATE

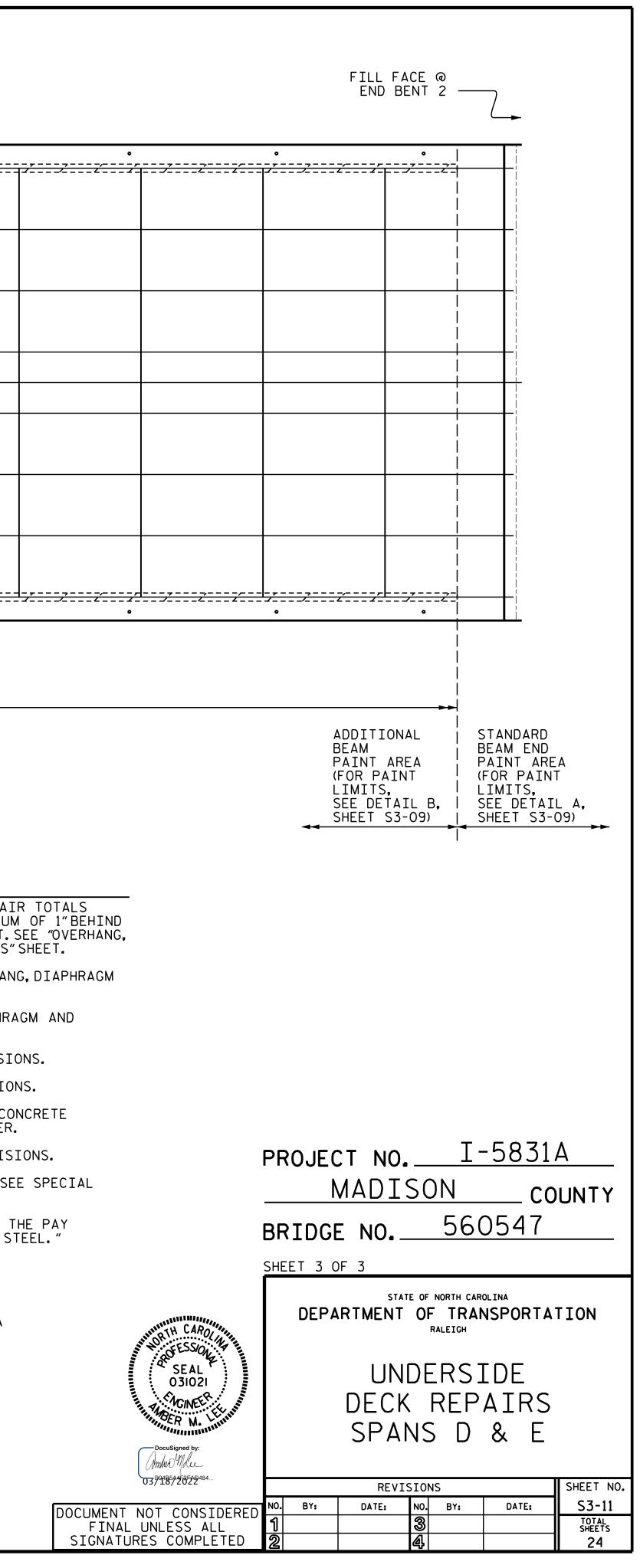
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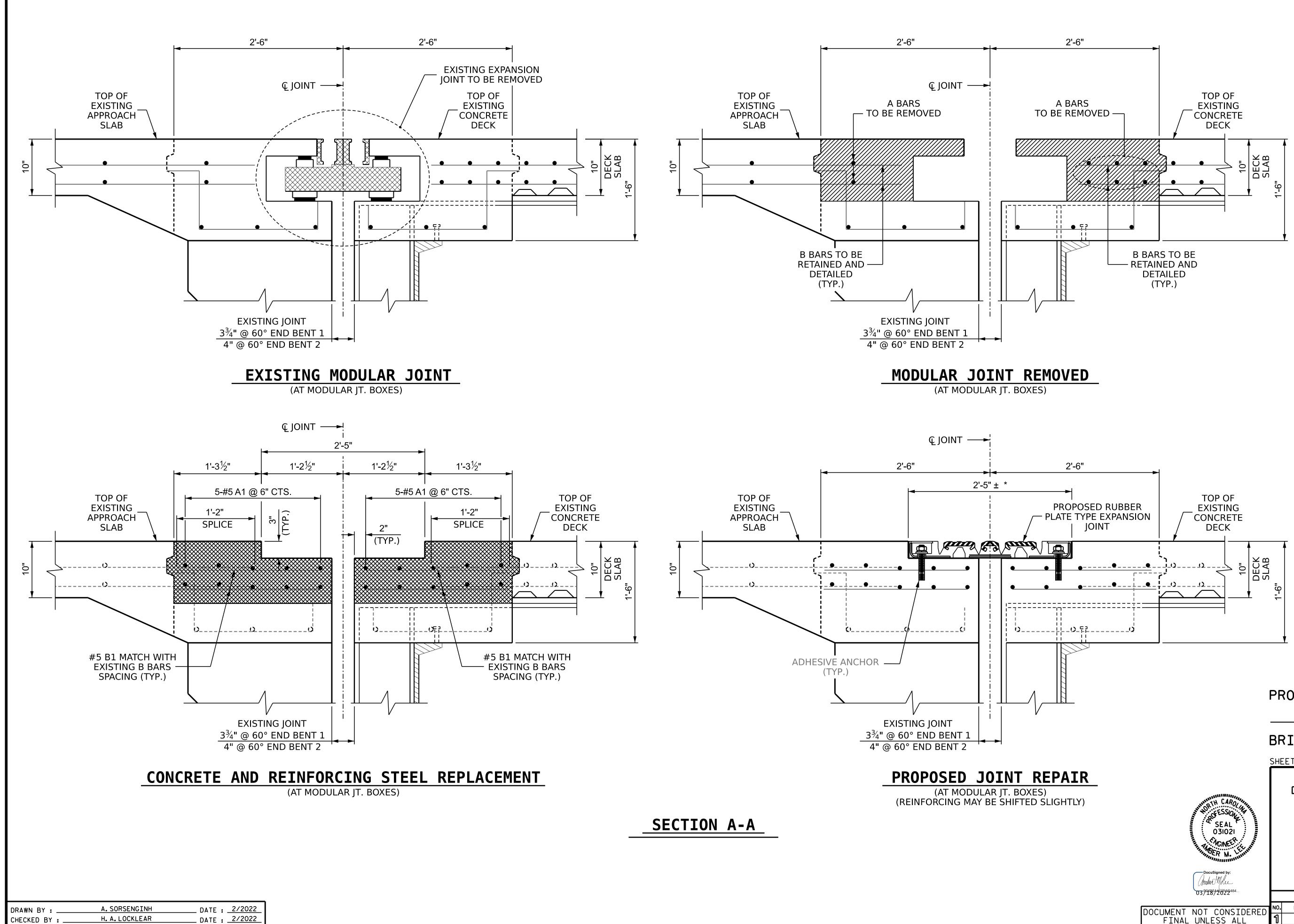
967'-8" (EXTERIOR GIRDERS G1 AND G8 - *6" UP WEB AND BOTTOM FLANGE)

SPAN E

NOTES

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET. FOR UNDERSIDE OF DECK REPAIRS.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET. FOR OVERHANG REPAIRS. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET. FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR CONCRETE REPAIRS. SEE SPECIAL PROVISIONS. SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER. FOR DECK DRAIN REPAIRS, SEE SPECIAL PROVISIONS. FOR PAINTING EXISTING WEATHERING STEEL, SEE SPECIAL PROVISIONS. ADDITIONAL BEAM PAINTING SHALL BE UNDER THE PAY BID ITEM "PAINTING EXISTING WEATHERING STEEL." SHOTCRETE REPAIR AREA L____Z ADDITIONAL BEAM PAINT AREA





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NOTES

EXISTING MODULAR EXPANSION **JOINT DETAIL ARE SHOWN FOR** INFORMATION ONLY. ACTUAL FIELD CONDITIONS MAY VARY. THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT IF ACTUAL CONDITIONS VARY FROM WHAT IS SHOWN IN THESE PLANS.

THE CONTRACTOR SHALL HAVE A **REPRESENTATIVE FROM THE JOINT** MANUFACTURER PRESENT DURING INSTALLATION OF PROPOSED EXPANSION JOINT SEAL.

ALL EXPOSED ENDS OF CUT BARS SHALL BE COATED WITH EPOXY PRIOR TO THE NEW JOINT MATERIAL INSTALLATION.

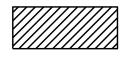
THE CONTRACTOR SHALL PREPARE THE BOTTOM SURFACE OF BLOCKOUT TO BE PARALLEL WITH THE PLANE OF THE **ROADWAY AND PROVIDE A UNIFORM** SURFACE.

ALL EXPOSED ENDS OF CUT BARS SHALL BE COATED WITH EPOXY PRIOR TO THE NEW JOINT MATERIAL INSTALLATION.

FOR JOINT REPAIR, SEE SPECIAL PROVISIONS.

FOR JOINT REPAIR QUANTITIES, SEE SHEET S3-13.

FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.



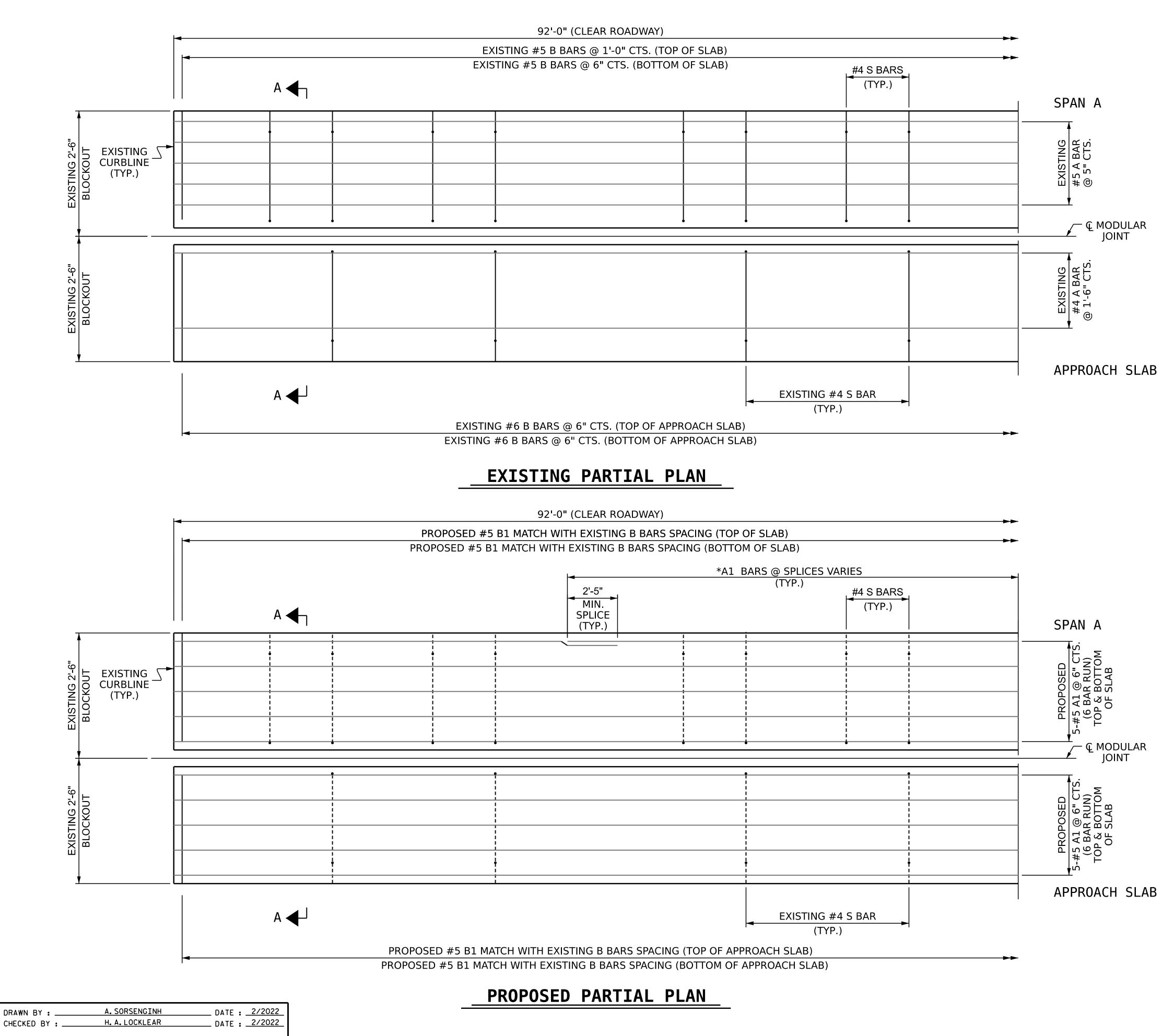
EXISTING CONCRETE TO BE REMOVED



NEW CONCRETE FOR DECK REPAIR

TO BE VERIFIED BY MANUFACTURER

-	PROJECT NO. I-5831A MADISON COUNTY BRIDGE NO 560547
	BRIDGE NO. 500547
	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
PocuSigned by:	END BENTS MODULAR JOINT REPLACEMENT
(Ambur) Millee 037185426522484	REVISIONS SHEET NO.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	NO.BY:DATE:NO.BY:DATE:S3-1213



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BILL OF MATERIAL								
FOR END BENT 1 OR 2								
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT			
* A1	120	#5	STR	18'-0"	2253			
* B1	192	#5	STR	2'-2"	434			
	COATE	D STEEL		26	87 LBS.			
	LATEX MODIFIED CONCRETE- EARLY STRENGTH 13.7 CU.YD.							
JOINT REPAIR 432.0 SQ.FT								
	MOLDED RUBBER SEGMENTAL EXPANSION JOINT 96'-0" LIN. FT.							

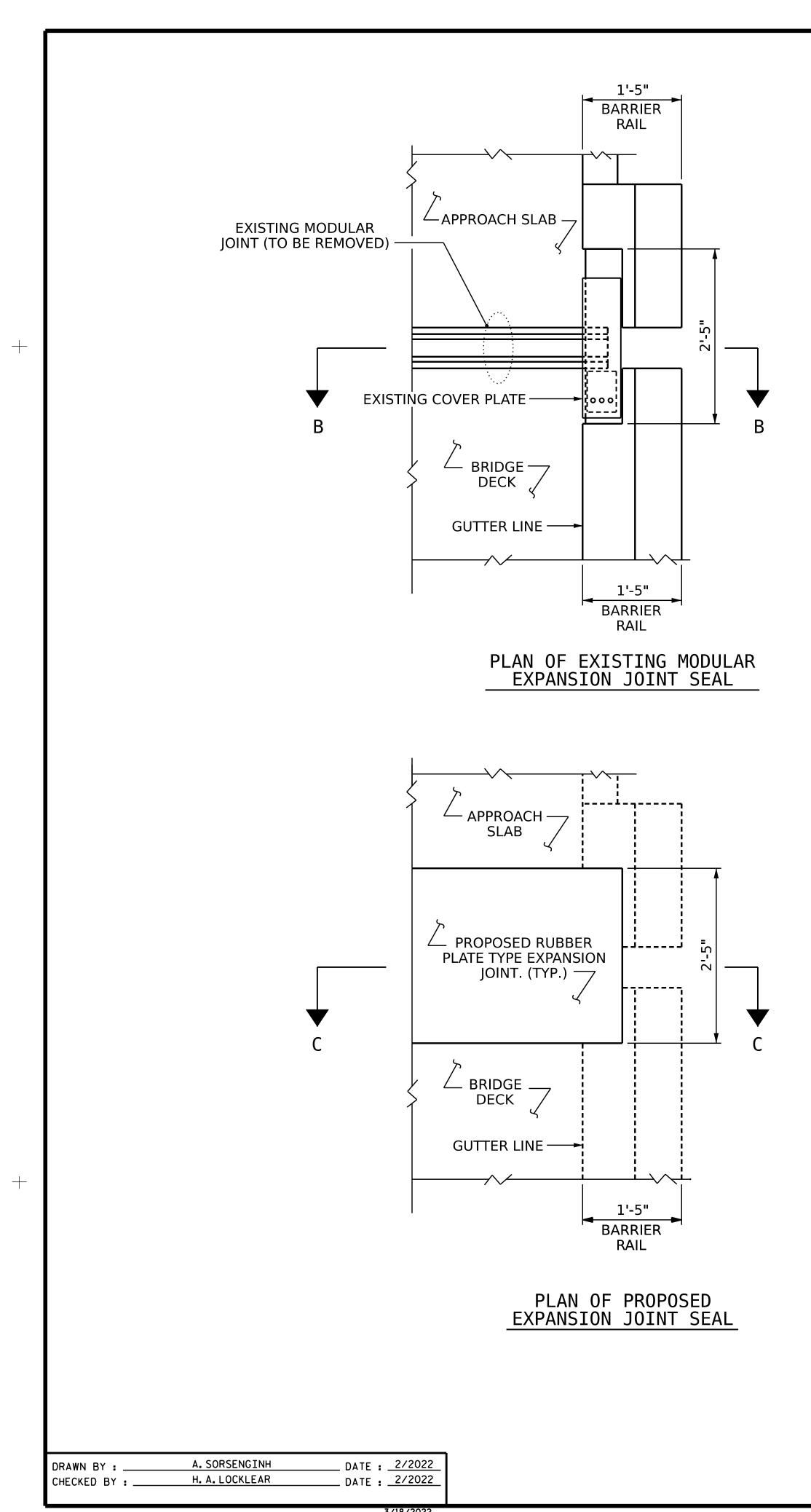
NOTES

FOR JOINT REPAIRS, SEE SPECIAL PROVISIONS.

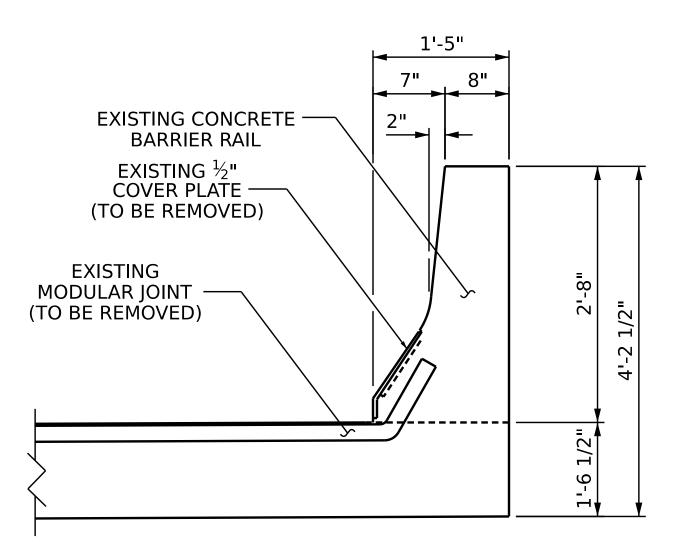
FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

THE EPOXY COATED REINFORCING STEEL LENGTH IS SPECIFIED FOR THE ANTICIPATED LANE CLOSURES. THE CONTRACTOR MAY ADJUST THE LENGTH OF THE REBAR BASED ON THE ACTUAL PLANNED LANE CLOSURES.

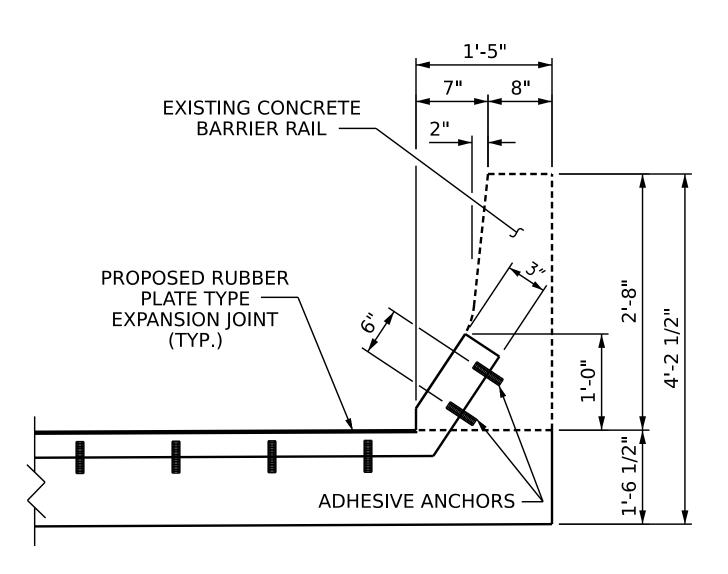
	BRIDGE	MADIS	SON	-5831/ CO 60547	A UNTY	
ACTION OF THE CAROLINATION OF THE CAROLINATION OF THE SOUTH OF THE SOUTH OF THE SOUTH OF THE	SHEET 2 OF 3 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH PARTIAL PLAN MODULAR JOINT REPLACEMENT AT END BENT 1 END BENT 2 SIMILAR					
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SECTION B-B



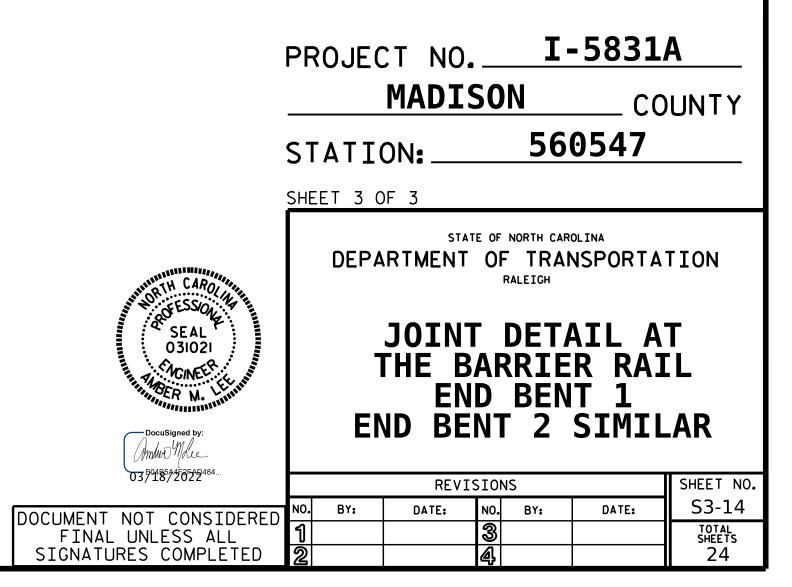


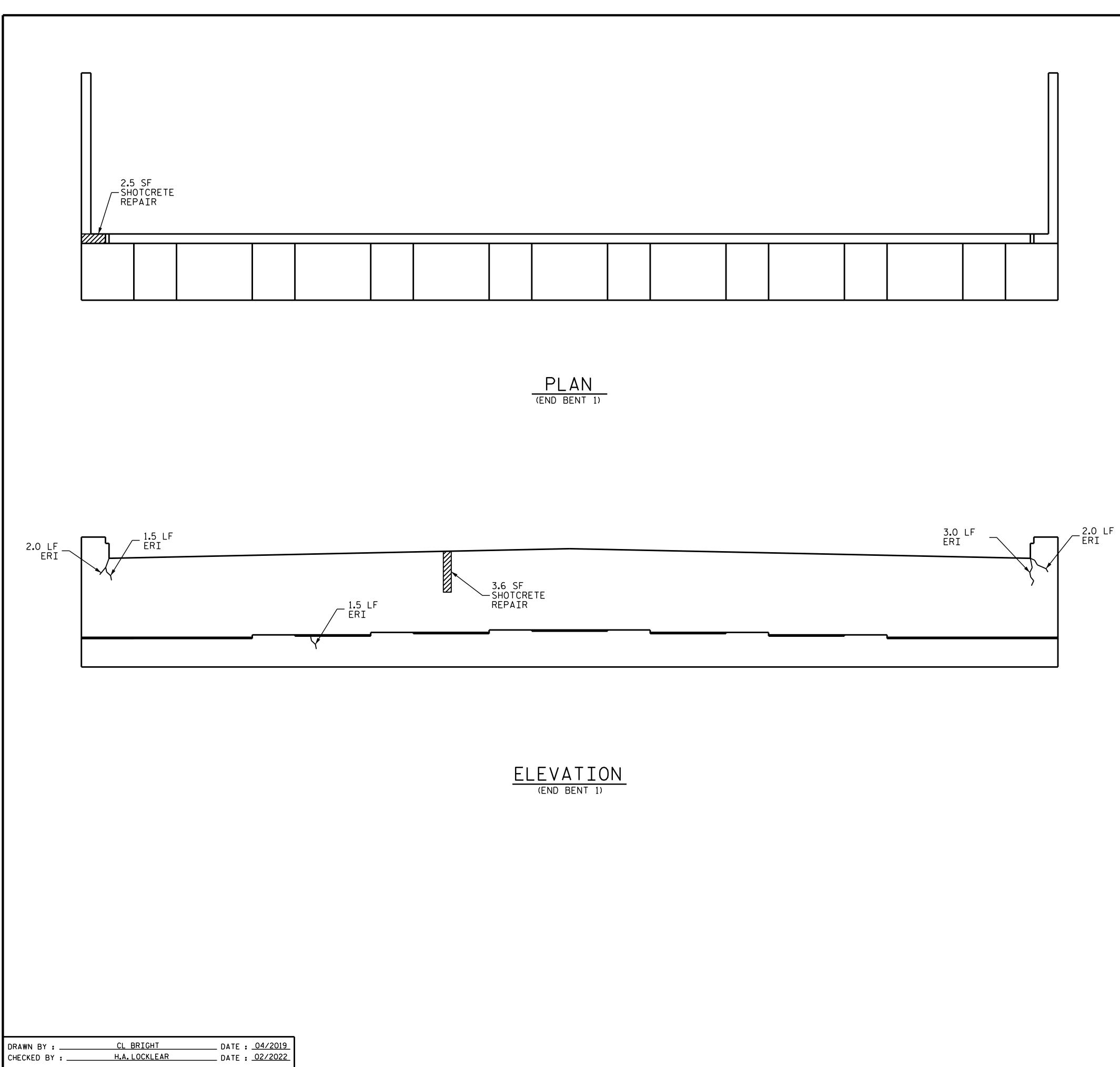
NOTES

THE CONTRACTOR SHALL CUT THE EXISTING #5 "S" REBARS EXTENDING INTO THE BARRIER FROM THE DECK AND THE LONGITUDINAL #5 REBAR WITHIN THE LIMIT OF THE PROPOSED RUBBER PLATE JOINT. ALL EXPOSED ENDS OF THESE BARS SHALL BE COATED WITH EPOXY PRIOR TO THE NEW JOINT MATERIAL INSTALLATION.

FOR JOINT REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.





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AS-BUILT REPAIR QUANTITY TABLE							
END BENT 1		QUANT	ITIES				
	ESTI	ΜΑΤΕ	ACT	UAL			
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.			
САР	0.0	0.0					
CURTAIN WALL	3.6	1.8					
WING WALL	2.5	1.3					
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.			
CAP	0.0	0.0					
CURTAIN WALL	0.0	0.0					
WING WALL	0.0	0.0					
EPOXY RESIN INJECTIO	N	LIN.FT.	LIN	.FT.			
САР		1.5					
CURTAIN WALL		4.5					
WING WALL		4.0					
EPOXY COATING	SQ.FT.	S0 .	FT.				
САР	618.5						

NOTES

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN BASED ON 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 AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

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

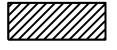
SHOTCRETE REPAIRS MAYBE SUBSTITUTED IN LIEU OF CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

FOR "TYPICAL CAP AND COLUMN REPAIR DETAILS," SEE SHEET SD-01.



SHOTCRETE REPAIR AREA



CONCRETE REPAIR AREA

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ERI - EPOXY RESIN INJECTION

		<u> </u>	<u>331A</u> COUNTY
		5605	
	STATE	OF NORTH CAROLINA	

DEPARTMENT OF TRANSPORTATION RALEIGH

END BENT 1

DocuSigned by:	L						
03/18/2022	REVISIONS						SHEET NO.
OCUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S3-15
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SIGNATURES COMPLETED	2			4			24