

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

LAT: 35.84786° LONG: -82.52521°

NOTES

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 OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THAT SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS

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.

AT THE PROJECT SITE.

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.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF THE DECK DURING HYDRO-DEMOLITION.

FOR PLACING AND FINISHING LATEX MODIFIED CONCRETE-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 REPAIRS, SEE SPECIAL PROVISIONS.

FOR VOLUMETRIC MIXER. SEE SPECIAL PROVISIONS.

I-5831A PROJ. NO._ MADISON COUNTY 560549 BRIDGE NO._

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

GENERAL DRAWING FOR BRIDGE ON INTERSTATE 26 WESTBOUND **OVER SR 1352** (HIGGINS BRANCH RD.)

SHEET NO

S5-02

TOTAL SHEETS

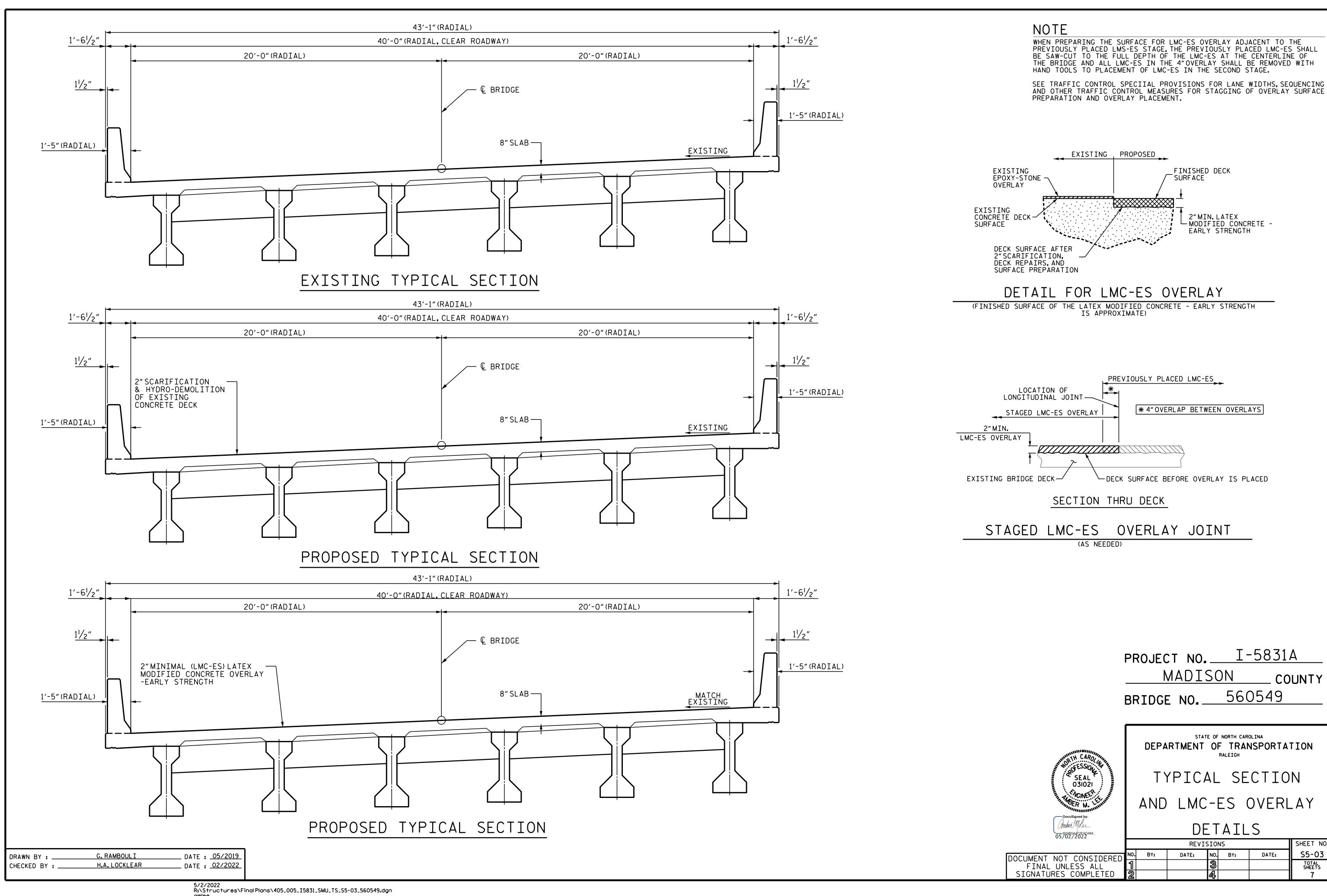
05/02/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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REVISIONS NO. DATE: BY: DATE: BY:

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



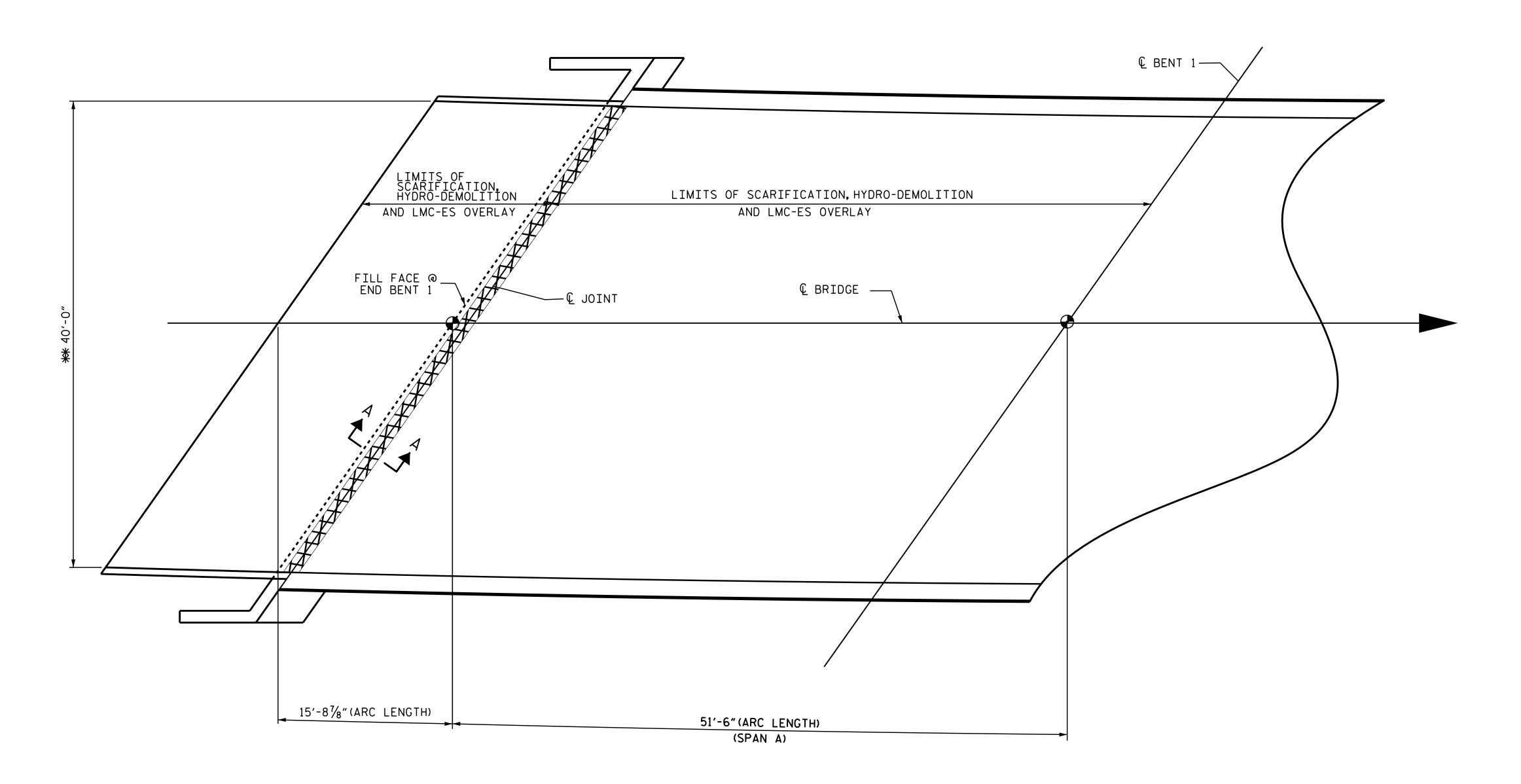
____ COUNTY

SHEET NO.

S5-03

TOTAL SHEETS

DATE:



SPAN A *** RADIAL DIMENSION

AS-BUILT REPAIR QUANTITY TABLE					
DECK SURFACE REPAIRS - APPROACH SLAB 1 DECK SURFACE REPAIRS - SPAN A					
	ESTIMATE	ACTUAL		ESTIMATE	ACTUAL
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.		CLASS II SURFACE PREPARATION	0.0 SQ. YDS.	
LATEX MODIFIED CONCRETE - ES	4.5 CU. YDS.		LATEX MODIFIED CONCRETE - ES	14.1 CU. YDS.	
PLACING AND FINISHING LMC-ES OVERLAY	73.0 SQ. YDS.		PLACING AND FINISHING LMC-ES OVERLAY	226.0 SQ. YDS.	
SCARIFYING BRIDGE DECK	73.0 SQ. YDS.		SCARIFYING BRIDGE DECK	226.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	73.0 SQ. YDS.		HYDRO-DEMOLITION OF BRIDGE DECK	226.0 SQ. YDS.	
GROOVING BRIDGE FLOORS	605.0 SQ.FT.		GROOVING BRIDGE FLOORS	1881.0 SQ.FT.	

NOTES

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR LMC-ES OVERLAY, SEE SPECIAL PROVISIONS.

FOR SECTION A-A, SEE FOAM JOINT DETAIL SHEET.

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 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 DETAIL SHEET.

CLASS II SURFACE PREPARATION

BRIDGE JOINT DEMOLITION.

PROJECT NO. I-5831A

MADISON COUNTY

BRIDGE NO. 560549

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DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK SURFACE REPAIR APPROACH SLAB 1 & SPAN A

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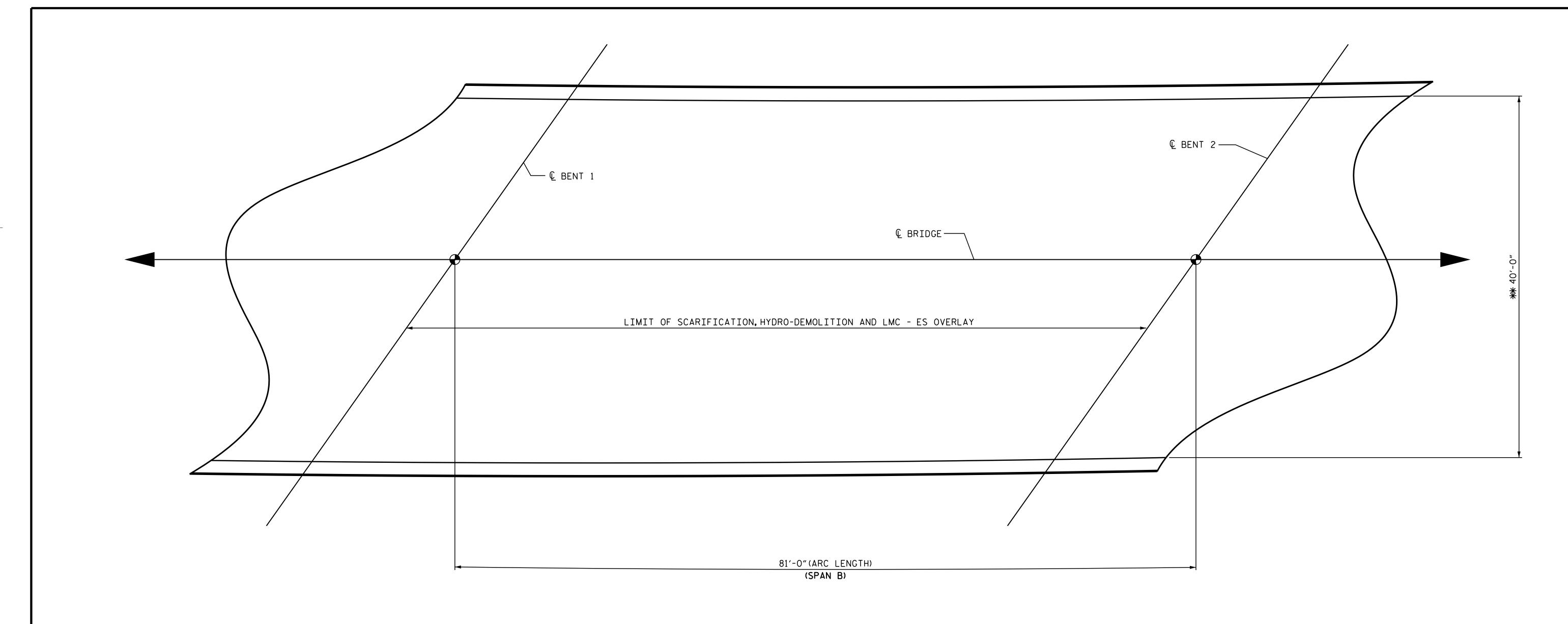
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SIGNATURES COMPLETED	2			4			7

SHEET 1 OF 3

DRAWN BY: G. RAMBOULI DATE: 06/2019
CHECKED BY: H.A. LOCKLEAR DATE: 02/2022



SPAN B ** RADIAL DIMENSION

NOTES

FOR LMC-ES OVERLAY, SEE SPECIAL PROVISIONS.

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.

CLASS II SURFACE PREPARATION

BRIDGE JOINT DEMOLIYION.

AS-BUILT REPAIR C	YTITMAUQ	TABLE			
TOP OF DECK REPAIRS SPAN B					
	ESTIMATE	ACTUAL			
CLASS II SURFACE PREPARATION	O.O CU.FT.				
LATEX MODIFIED CONCRETE - ES	22.5 CU. YDS.				
PLACING AND FINISHING LMC-ES OVERLAY	360.0 SQ. YDS.				
SCARIFYING BRIDGE DECK	360.0 SQ. YDS.				
HYDRO-DEMOLITION OF BRIDGE DECK	360.0 SQ. YDS.				
GROOVING BRIDGE FLOORS	2997.0 SQ.FT.				

PROJECT NO. I-5831A MADISON ___ COUNTY BRIDGE NO. 560549

SHEET 2 OF 3

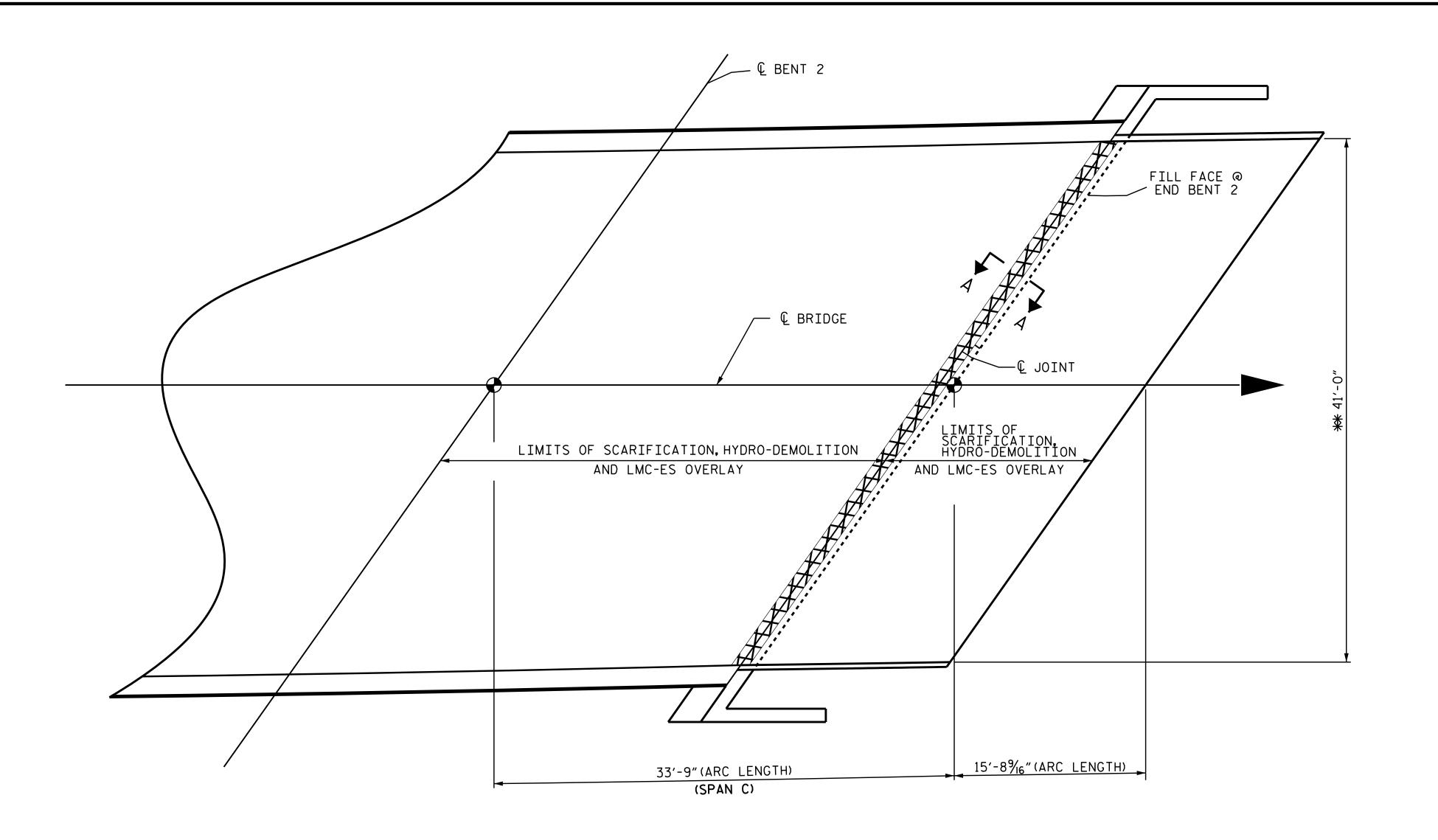
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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

DECK SURFACE REPAIR SPAN B

REVISIONS SHEET NO. NO. BY: S5-05 DATE: DATE: BY: DOCUMENT NOT CONSIDERED 1
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SIGNATURES COMPLETED 2

G. RAMBOULI __ DATE : <u>06/2019</u> DRAWN BY : _ _ DATE : <u>02/2022</u> H.A. LOCKLEAR CHECKED BY : .



	AS-BUILT	REPAIR	QUANTITY TABLE		
DECK SURFACE REPAIRS - APPROACH SLAB DECK SURFACE REPAIRS - SPAN C					
	ESTIMATE	ACTUAL		ESTIMATE	ACTUAL
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.		CLASS II SURFACE PREPARATION	0.0 SQ. YDS.	
LATEX MODIFIED CONCRETE - ES	4.5 CU. YDS.		LATEX MODIFIED CONCRETE - ES	9.2 CU. YDS.	
PLACING AND FINISHING LMC ES OVERLAY	73.0 SQ. YDS.		PLACING AND FINISHING LMC-ES OVERLAY	147.0 SQ. YDS.	
SCARIFYING BRIDGE DECK	73.0 SQ. YDS.		SCARIFYING BRIDGE DECK	147.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	73.0 SQ. YDS.		HYDRO-DEMOLITION OF BRIDGE DECK	147.0 SQ. YDS.	
GROOVING BRIDGE FLOORS	604.0 SQ.FT.		GROOVING BRIDGE FLOORS	1224.0 SQ.FT.	
<i>1</i>					

SPAN C

** RADIAL DIMENSION

NOTES

FOR SECTION, SEE FOAM JOINT DETAIL SHEET.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR LMC-ES OVERLAY, SEE SPECIAL PROVISIONS.

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 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 DETAIL SHEET.

CLASS II SURFACE PREPARATION

BRIDGE JOINT DEMOLIYION

PROJECT NO. I-5831A

MADISON COUNTY

BRIDGE NO. 560549

SHEET 3 OF 3

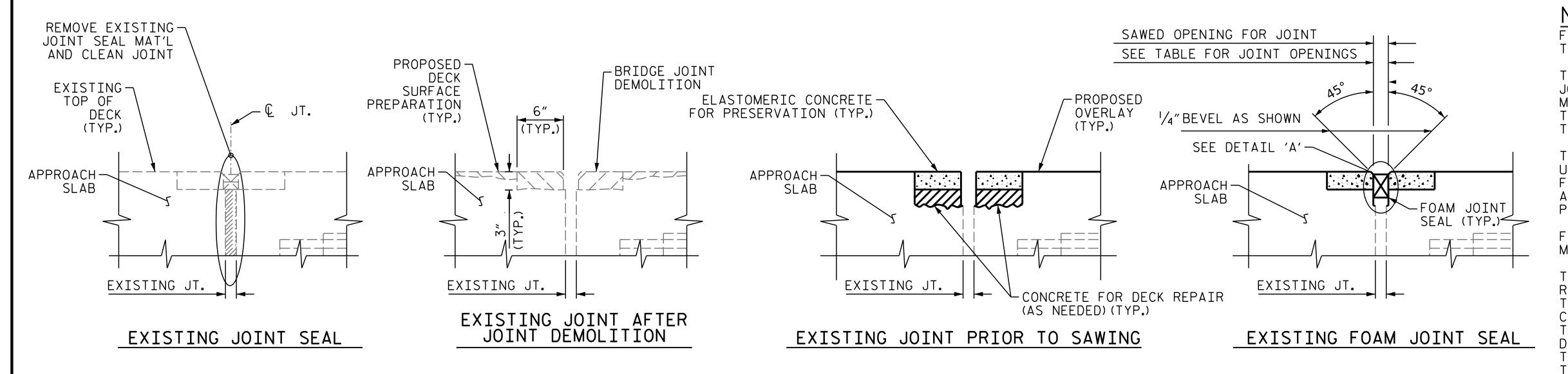
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK SURFACE REPATE

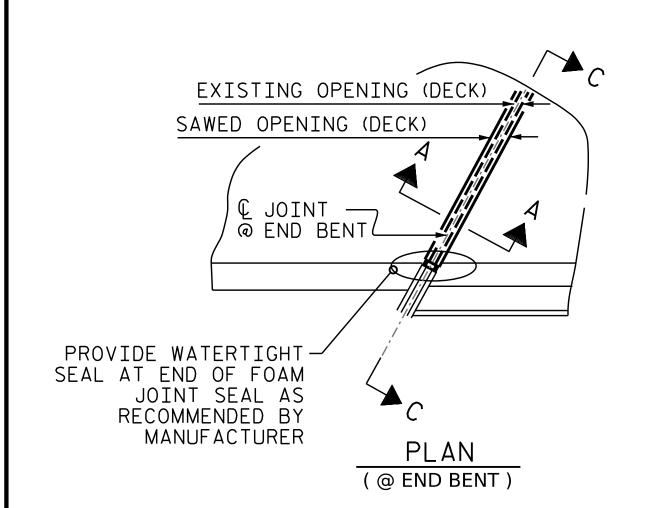
DECK SURFACE REPAIR APPROACH SLAB 2 & SPAN C

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SIGNATURES COMPLETED	2			4]

DRAWN BY: G. RAMBOULI DATE: 06/2019
CHECKED BY: H.A. LOCKLEAR DATE: 02/2022



SECTION A-A



ASSEMBLED BY: A.M. LEE

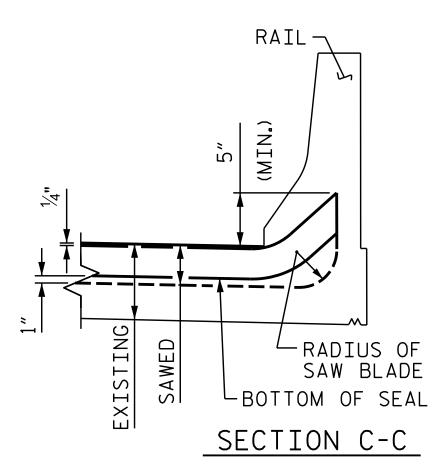
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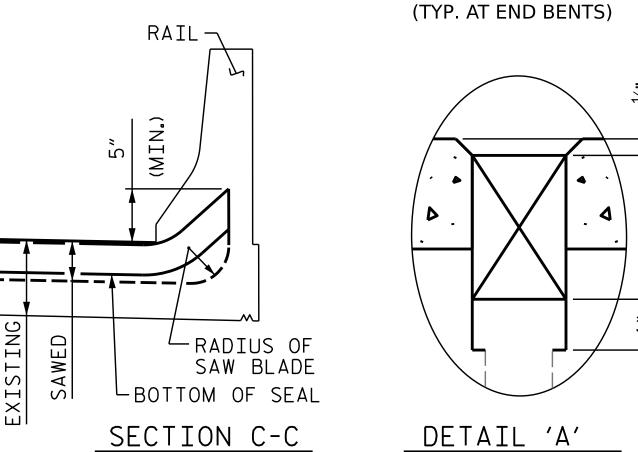
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DATE: 2/2022

DATE: 2/2022





SAWED JOINT	Γ ΟΙ	PEN	II	VG	T A	4 <i>B</i> .	LE
	(SA PERP			.OPE JLAR		
LOCATION		AT 4	5°	ΑТ	60°	ΑТ	90°
END BENT 1		1%	"	19	í6″	13	/8"
END BENT 2		15/8	"	19	16"	17	/16"

ELASTOMERIC CONCRETE FOR PRESERVATION					
LOCATION	ESTIMATED (CU.FT.)	ACTUAL (CU.FT.)			
END BENT 1	12.2				
END BENT 2	12.4				
TOTAL	24.6				

JOINT REPAIR QUAI	NTITY TABI	LE .
	ESTIMATED	ACTUAL
FOAM JOINT SEALS FOR PRESERVATION	100.4 LIN.FT.	

	BRIDGE JOINT DEMOLITION							
LOCATION	ESTIMATE	ACTUAL						
END BENT 1	48.8 SQ.FT.							
END BENT 2	49.6 SQ.FT.							
TOTAL	98.4 SQ.FT.							

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.

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.

> I-5831A PROJECT NO._ MADISON COUNTY 560549 BRIDGE NO.__



Amber Mace

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **STANDARDS**

FOAM JOINT SEALS FOR PRESERVATION DETAILS

039485/26522⁴⁸⁴ SHEET NO. **REVISIONS** S5-07 NO. DATE: DATE: BY: BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BRIDGE JOINT DEMOLITION						
LOCATION	ESTIMATE	ACTUAL				
END BENT 1	48.8 SQ.FT.					
CND DENT O	40 C CO ET					

