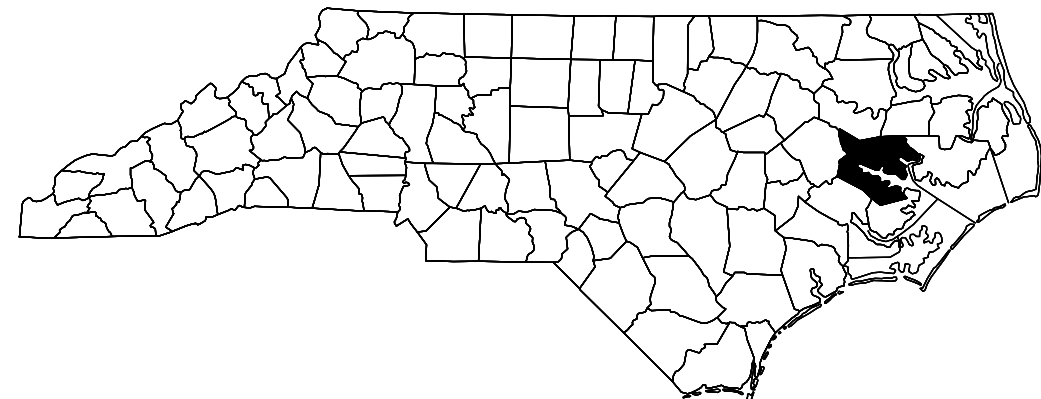


PROJECT: 15BPR.137.3

CONTRACT NO: C204955



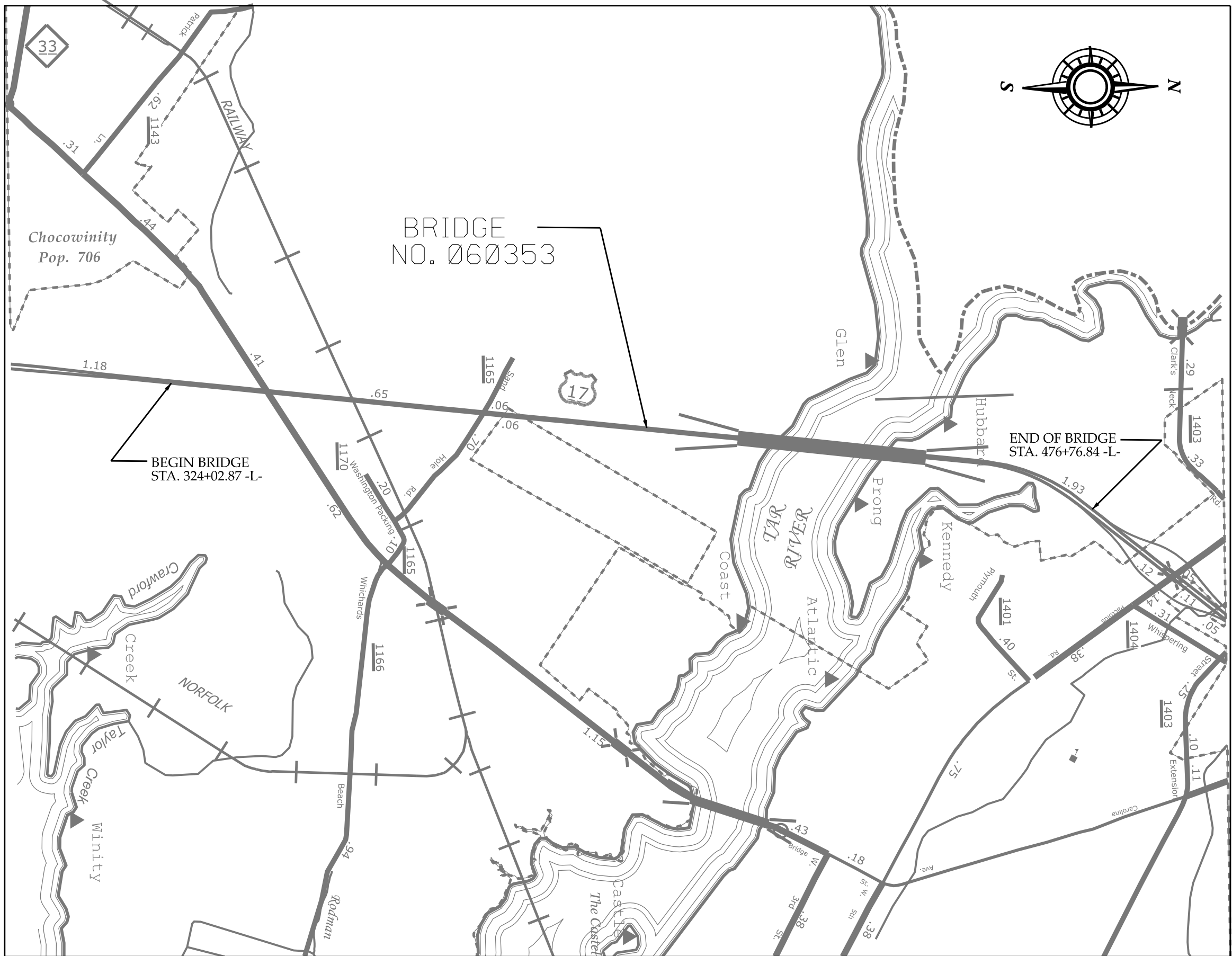
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

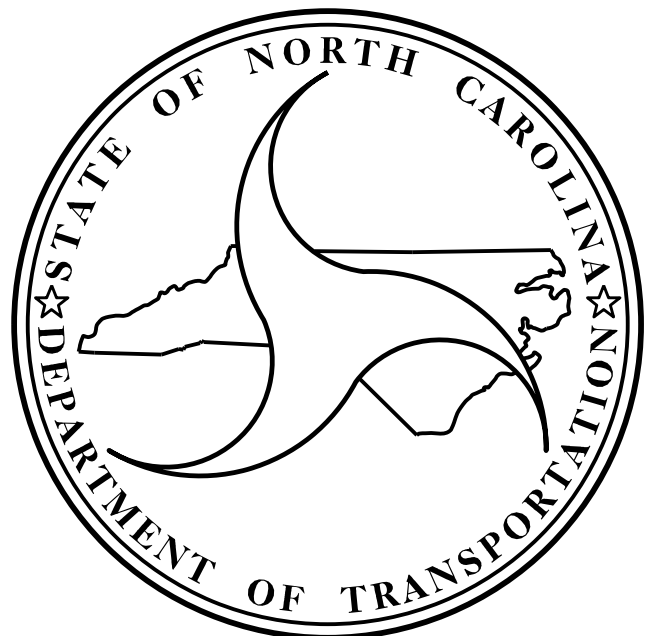
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STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
15BPR.137.1		P.E.	
15BPR.137.3		CONST.	

LOCATION: BEAUFORT CO.: BRIDGE #060353 ON US 17 OVER US 17 BUS AND TAR RIVER.

TYPE OF WORK: CONCRETE BRIDGE DECK REHABILITATION BY SHOTBLASTING AND SILANE DECK TREATMENT; RECONSTRUCTION OF BRIDGE DECK JOINTS AND SEALS; SILANE TREATMENT OF BARRIER RAIL AND PRESTRESSED CONCRETE GIRDERS; DRAINAGE SYSTEM REPAIRS; SUBSTRUCTURE CONCRETE REPAIRS WITH SHOTCRETE, EPOXY RESIN INJECTION, AND EPOXY COATING.



VICINITY MAP



DESIGN DATA

BRIDGE #353 ADT 2020 = 10,500

PROJECT LENGTH

BRIDGE #353 = 2.893 MILE

Prepared in the Office of:
DIVISION OF HIGHWAYS
STRUCTURES MANAGEMENT UNIT
1000 BIRCH RIDGE DR.
RALEIGH, N.C. 27610

2024 STANDARD SPECIFICATIONS

LETTING DATE :

February 17, 2026

Kristy W. Alford, P.E.
PROJECT ENGINEER

William C. Smith, P.E.
PROJECT DESIGN ENGINEER



NOTES

THIS BRIDGE PRESERVATION PROJECT SHALL BE CONSTRUCTED USING TOP-DOWN CONSTRUCTION METHODS. THE USE OF A TEMPORARY CAUSEWAY OR WORK BRIDGE IS NOT PERMITTED.

THE EXISTING BRIDGE IS NOT PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE PRIOR TO CONSTRUCTION OF THE REPAIRS, THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS FOUND NECESSARY TO MAINTAIN THE EXISTING LOAD LIMIT DURING THE LIFE OF THE PROJECT.

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 2/13/2020.

BRIDGE ORIENTATION CONFORMS TO THE EXISTING BRIDGE PLANS.

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 REQUIREMENTS.

WORK ON THE BRIDGE(S) SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTOR'S PLAN USES 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.

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT THE EXISTING STRUCTURE WHICH IS TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY PART OF THE EXISTING STRUCTURE WHICH IS TO REMAIN IN PLACE, THE DAMAGED AREA SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY DAMAGE TO EXISTING REINFORCING STEEL, DURING THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT.

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE CONTRACT DOCUMENTS.

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR 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.

THE ELEVATION(S) AND CLEARANCE(S) SHOWN ON THE PLANS AT THE POINT(S) OF MINIMUM VERTICAL CLEARANCE ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATION(S) ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.

THE RAILROAD TRACK TOP OF RAIL TO BOTTOM OF BEAM VERTICAL CLEARANCES ON THE PLANS ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE TOP OF RAIL TO BOTTOM OF BEAM CLEARANCES AND REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.

ALL PAVEMENT MARKING WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATIONS OF THE BRIDGE DECK. THE CONTRACTOR SHALL TAKE CARE THAT ANY CONSTRUCTION DEBRIS THAT COLLECTS IN THE DRAINS IS CONTAINED. DRAINS IN SHOULDERS OF ADJACENT TRAVEL LANE(S) SHALL BE KEPT FREE AND CLEAR OF DEBRIS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

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 SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT, SEE SILANE DECK TREATMENT SPECIAL PROVISION.

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.

FOR SURFACE PREPARATION FOR CONCRETE BARRIER RAIL AND SILANE BARRIER RAIL TREATMENT, SEE SILANE BARRIER RAIL TREATMENT SPECIAL PROVISION.

FOR DRAINAGE SYSTEM REPAIR, SEE SPECIAL PROVISIONS.

FOR REPAIRS TO PRESTRESSED CONCRETE GIRDERS, SEE SPECIAL PROVISIONS.

FOR EPOXY COATING CONCRETE GIRDER ENDS, SEE SPECIAL PROVISIONS.

FOR SURFACE PREPARATION FOR SILANE GIRDER TREATMENT AND SILANE GIRDER TREATMENT, SEE SILANE GIRDER TREATMENT SPECIAL PROVISION.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

FOR EPOXY COATING AND DEBRIS REMOVAL, SEE SPECIAL PROVISIONS.

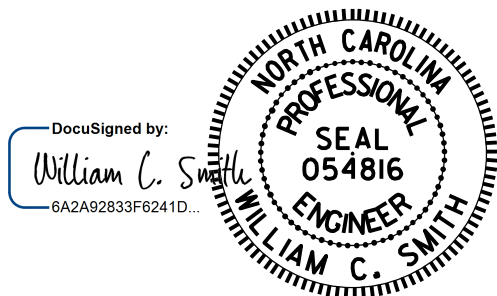
AT THE TIME OF PREPARATION OF THESE PLANS, IT WAS NOT ANTICIPATED THAT THE FOLLOWING ITEM(S) LISTED WOULD BE REQUIRED. HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT THE FOLLOWING ITEM(S) LISTED, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETE THE INTENDED BRIDGE PRESERVATION/REHABILITATION WORK.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

ITEM	DESCRIPTION	UNIT
1	SPlicing OF PRESTRESSED STRANDS	EACH
2	CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT	SQ.FT

TOTAL BILL OF MATERIAL

CONCRETE REPAIRS	SHOTCRETE REPAIRS	EPOXY RESIN INJECTION	FOAM JOINT SEALS FOR PRESERVATION	DRAINAGE SYSTEM REPAIRS	ELASTOMERIC CONCRETE FOR PRESERVATION	REPAIRS TO PRESTRESSED CONCRETE GIRDERS	SURFACE PREPARATION FOR CONCRETE BARRIER RAIL	SILANE BARRIER RAIL TREATMENT	SURFACE PREPARATION FOR SILANE GIRDER TREATMENT	SILANE GIRDER TREATMENT	BRIDGE JOINT DEMOLITION	EPOXY COATING	EPOXY COATING CONCRETE GIRDER ENDS	SHOTBLASTING BRIDGE DECK	SILANE DECK TREATMENT	RAILROAD CONTRACTOR PROTECTIVE SERVICES
CU. FT.	CU. FT.	LIN. FT.	LIN. FT.	LUMP SUM	CU. FT.	CU. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. YD.	SQ. YD.	DAYS
1.2	44.8	126.0	4,930.2	LUMP SUM	1,230.6	12.7	372,272.6	372,272.6	281,877.9	281,877.9	4633.2	75,339.6	8,326.9	117,525.4	117,525.4	30



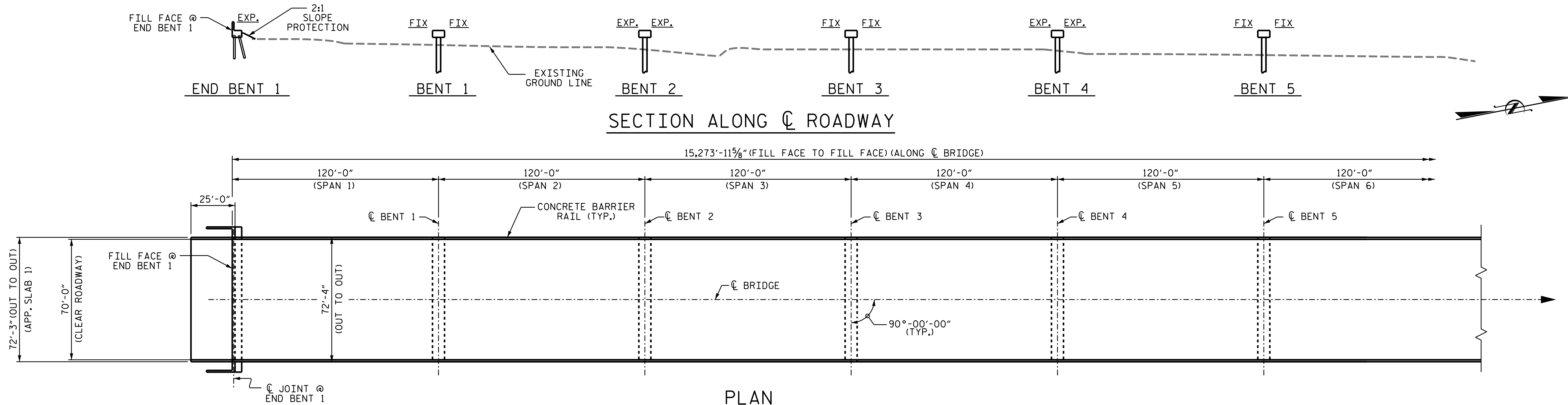
11/25/2025

PROJECT NO. **15BPR.137**
BEAUFORT COUNTY
BRIDGE NO. **060353**

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
LOCATION SKETCH AND TOTAL BILL OF MATERIAL				
REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	BY:
1			3	
2			4	
TOTAL SHEETS				217

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

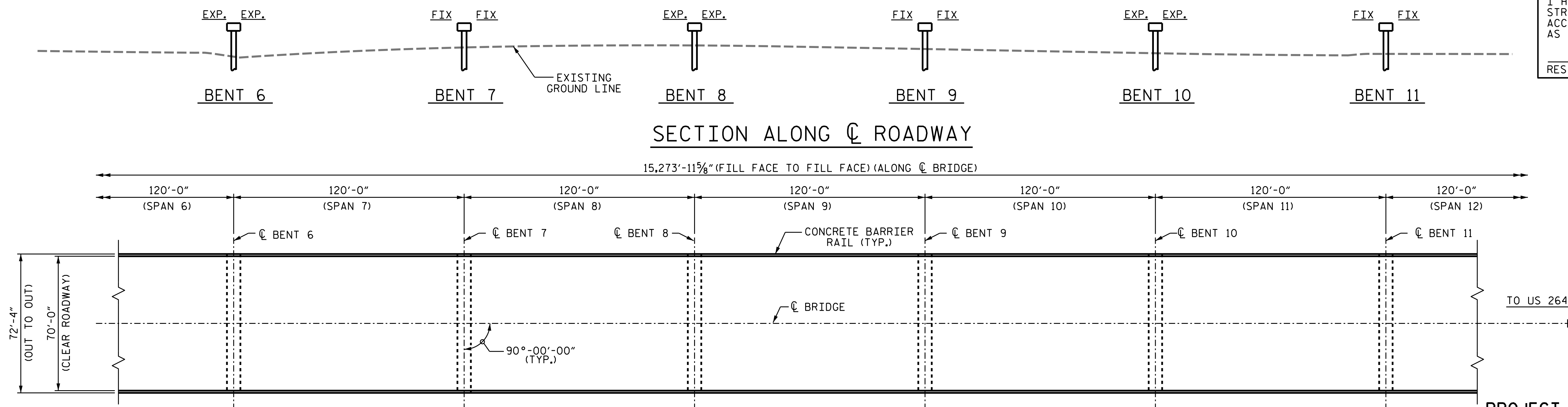
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CHECKED BY :	W. C. SMITH	DATE :	10/3/24
DESIGN ENGINEER OF RECORD:	W. C. SMITH	DATE :	10/3/24



PLAN

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

RESIDENT ENGINEER



PLAN

SCOPE OF WORK

- BRIDGE DECK PREPARATION WITH SHOTBLASTING METHODS.
- SURFACE PREPARATION FOR CONCRETE BARRIER RAIL AND EXTERIOR FACES OF EXTERIOR CONCRETE GIRDERS.
- APPLY SILANE DECK, BARRIER RAIL, AND GIRDER TREATMENT AS INDICATED ON THE PLANS.
- REMOVE EXISTING ELASTOMERIC CONCRETE, ARMOR, AND JOINT MATERIAL.
- RECONSTRUCT BRIDGE JOINTS WITH ELASTOMERIC CONCRETE AND INSTALL NEW FOAM JOINT SEALS.
- CLEAN OUT THE DRAINAGE SYSTEM AND INSTALL OR REPAIR DECK DRAINS TO EXTEND BELOW THE BOTTOM OF THE GIRDER FLANGE.
- REMOVE UNSOUND CONCRETE, PROPERLY PREPARE AREAS, AND PERFORM SHOTCRETE, CONCRETE, AND PRESTRESSED CONCRETE GIRDER REPAIRS.
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING.
- CLEAN AND EPOXY COAT EXISTING PRESTRESSED CONCRETE GIRDER ENDS.
- EPOXY COAT ENDS OF BENT CAPS (DISTANCE EXTENDS UNDER THE EXTERIOR GIRDERS AS SHOWN ON THE PLANS).
- EPOXY RESIN INJECTION OF CONCRETE CRACKS.

DRAWN BY : S. T. SANDOR DATE : 2/21/24
CHECKED BY : W. C. SMITH DATE : 10/03/24

11/20/2025
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DocuSigned by:
William C. Smith
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11/21/2025

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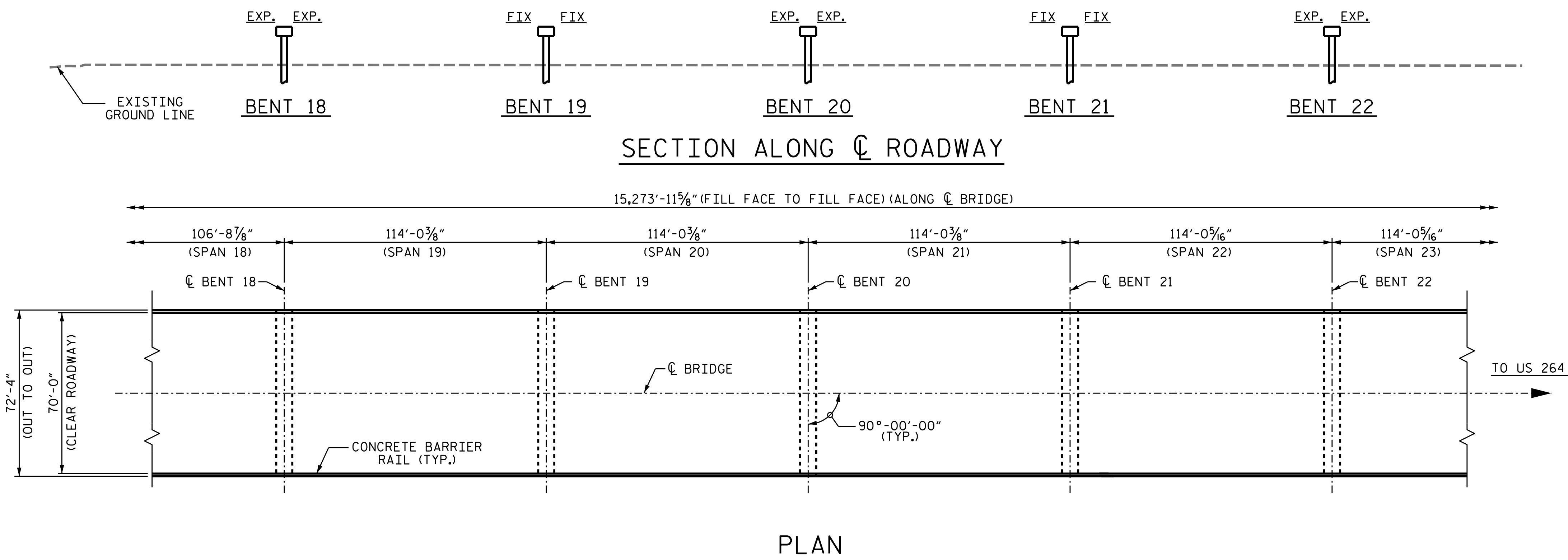
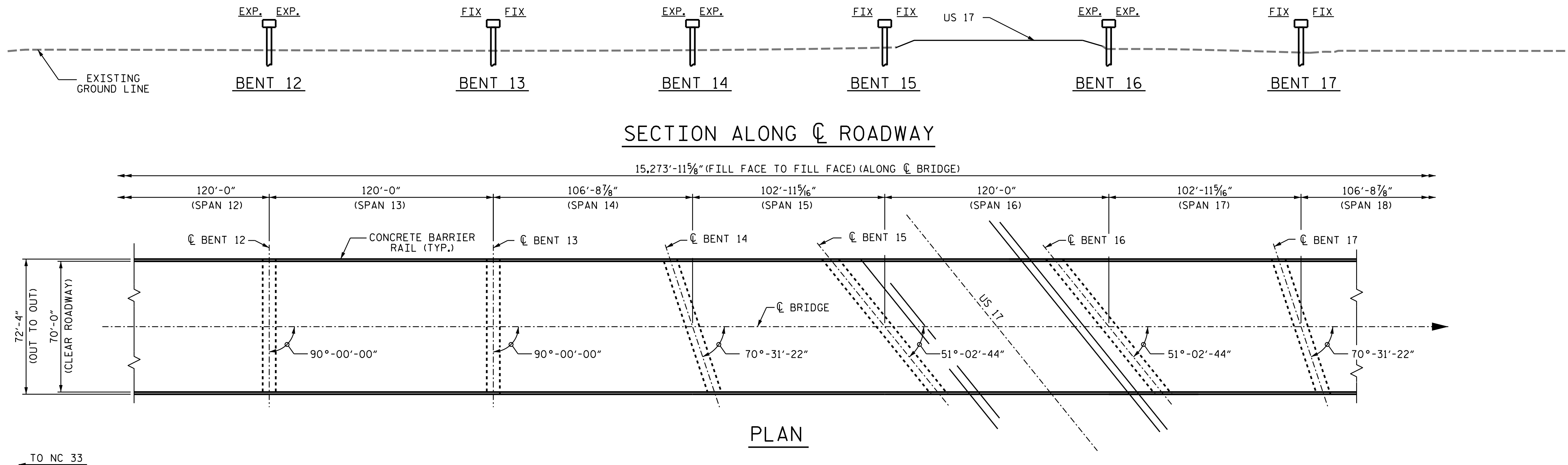
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 1 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

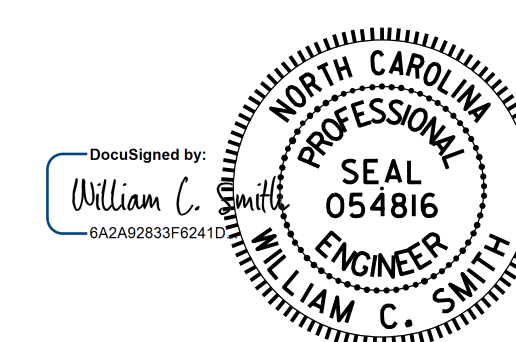
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-2
2			4			TOTAL SHEETS 217



PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 2 OF 13

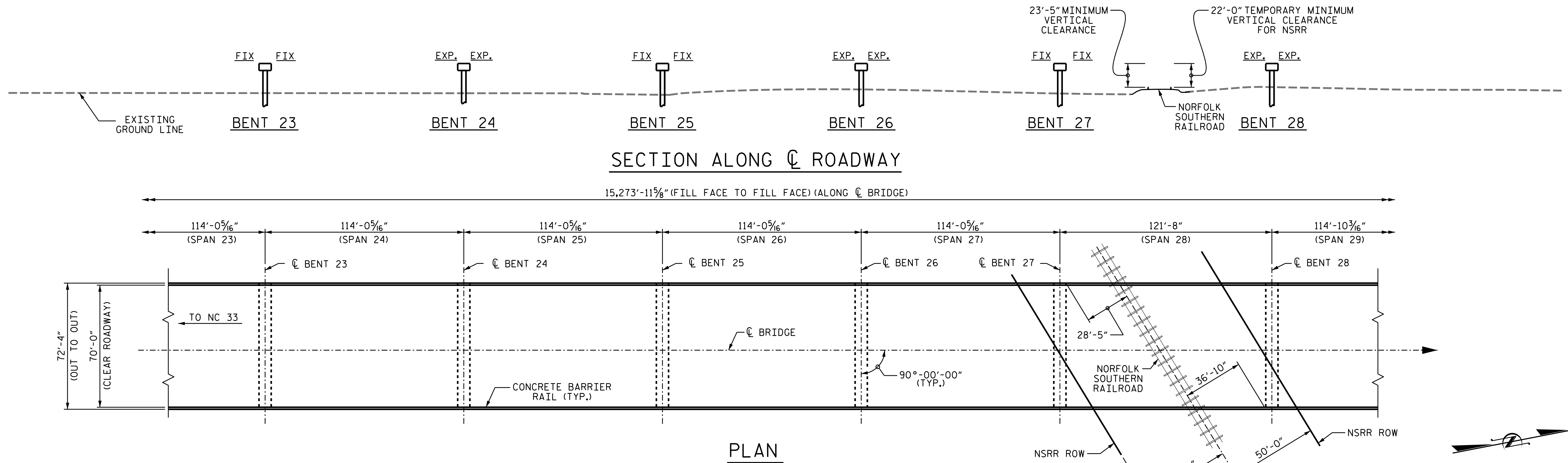


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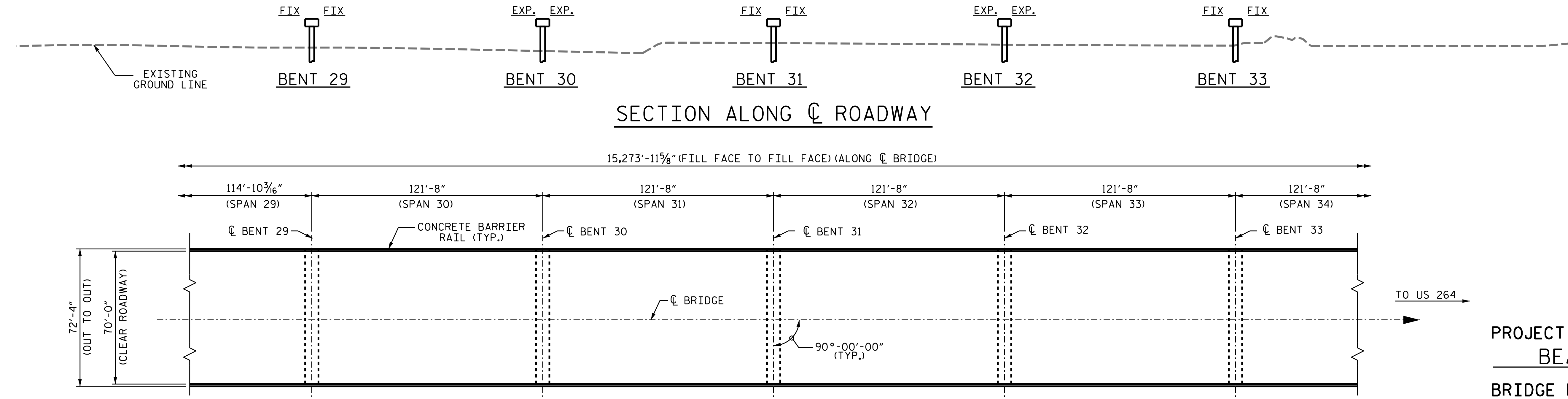
DRAWN BY : S. T. SANDOR DATE : 02/21/24
CHECKED BY : W. C. SMITH DATE : 10/03/24

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2			4			217



PLAN



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 3 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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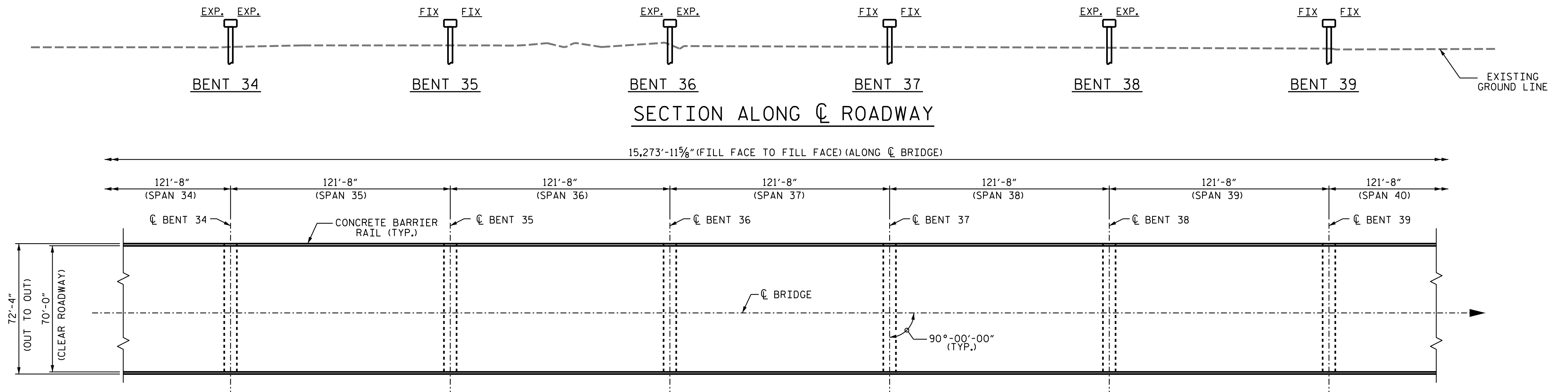
DocuSigned by:
William C. Smith
054816
6A2A0283F02411

NORTH CAROLINA
PROFESSIONAL
SEAL
054816
ENGINEER
WILLIAM C. SMITH

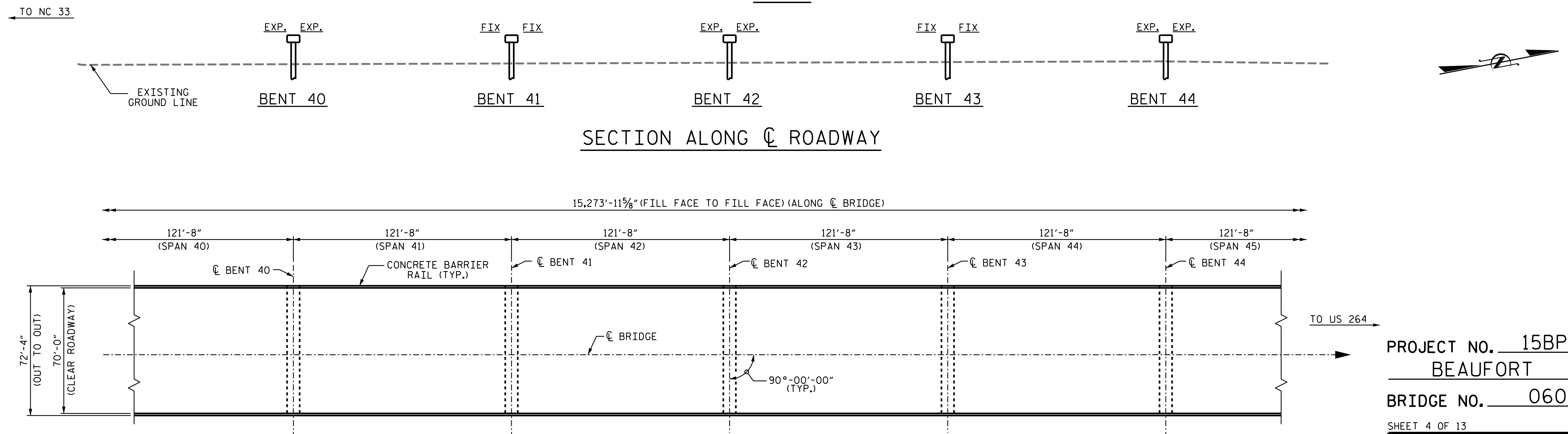
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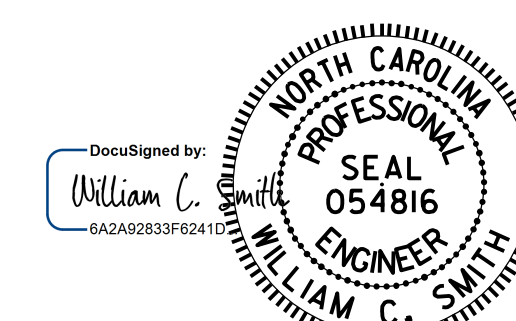
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PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 4 OF 13

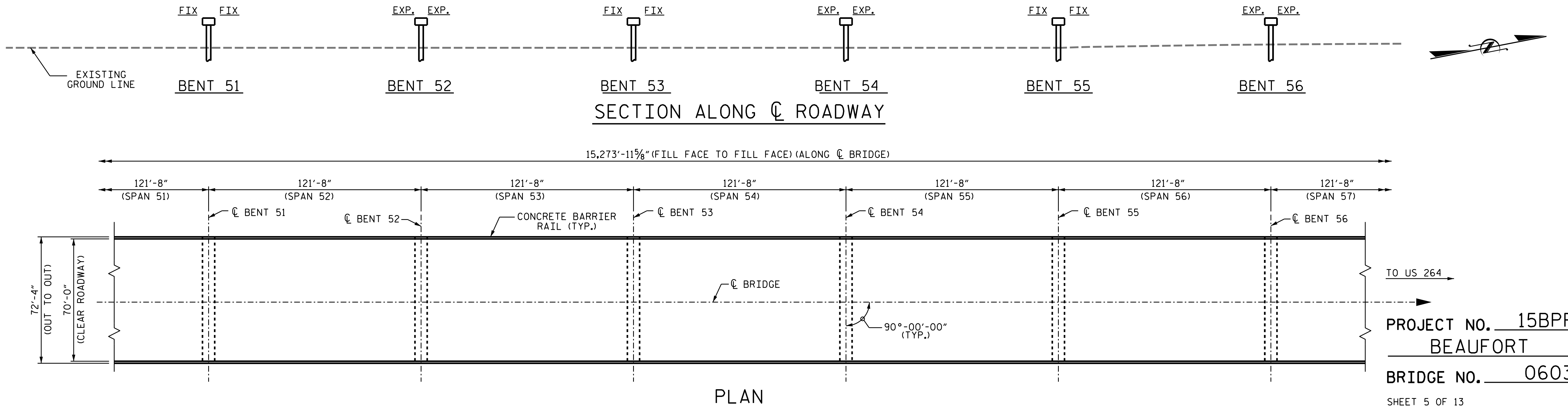
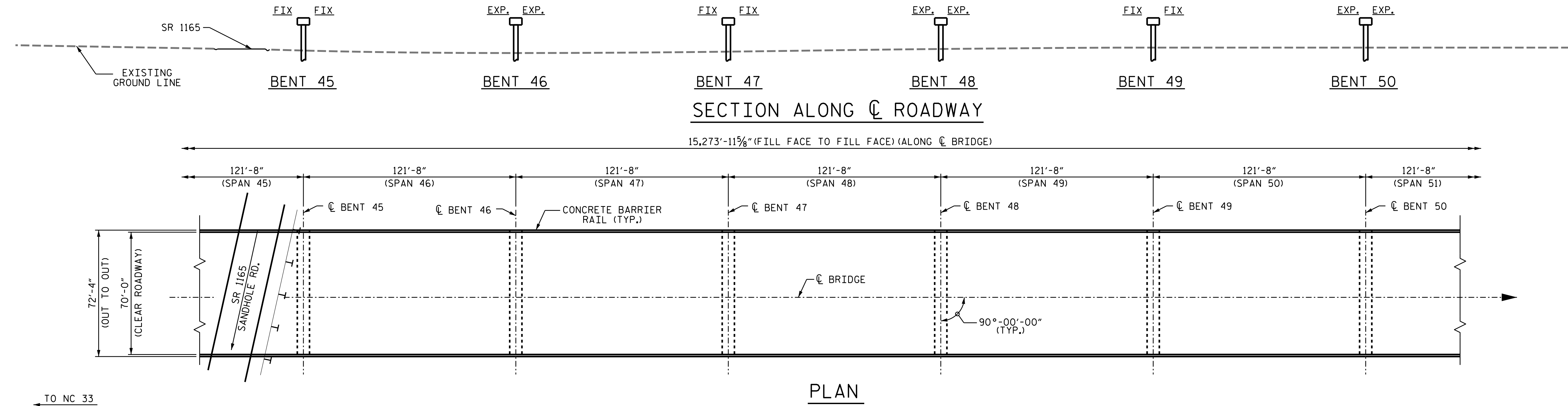


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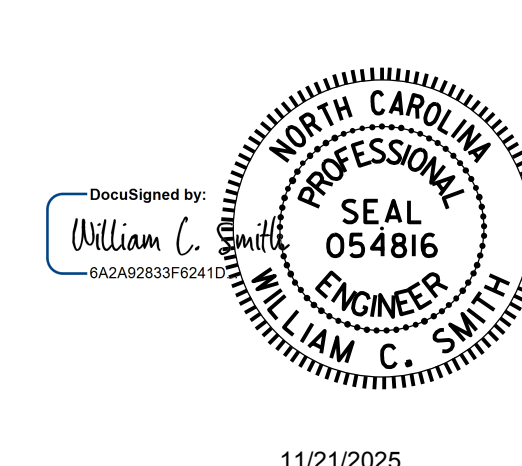
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PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

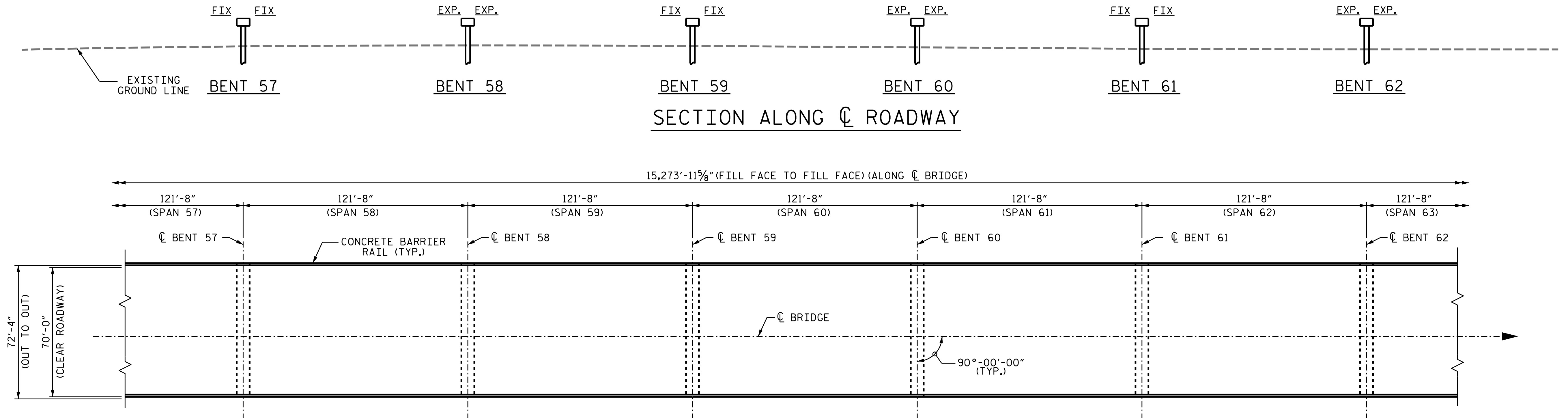
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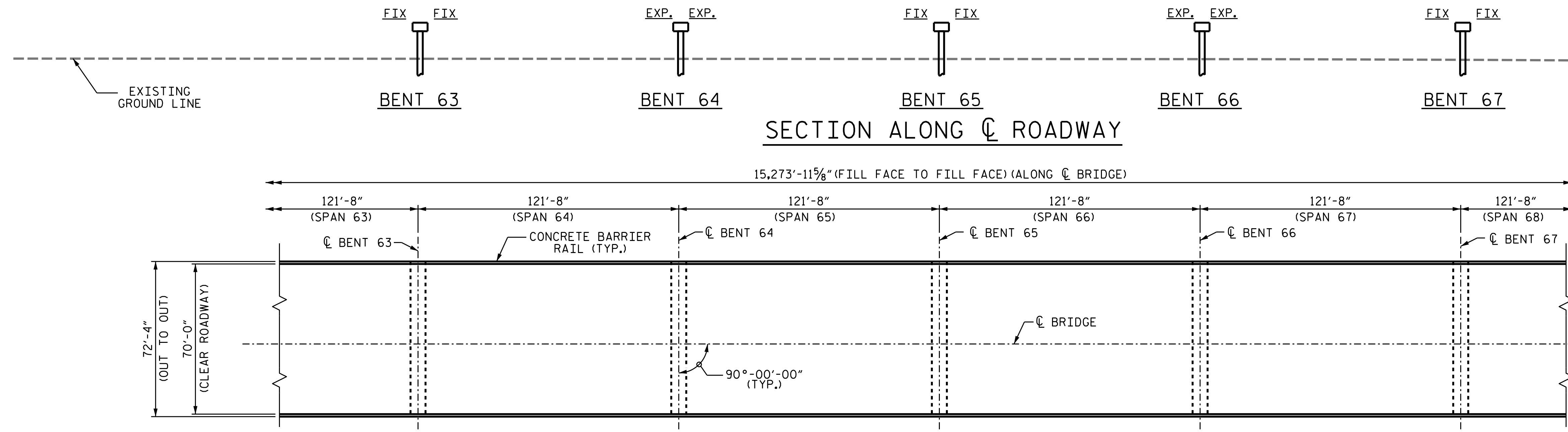
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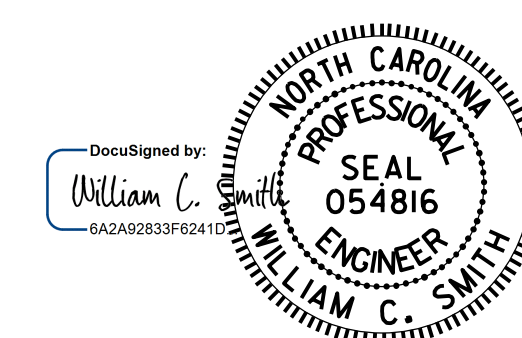
PLAN



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 6 OF 13

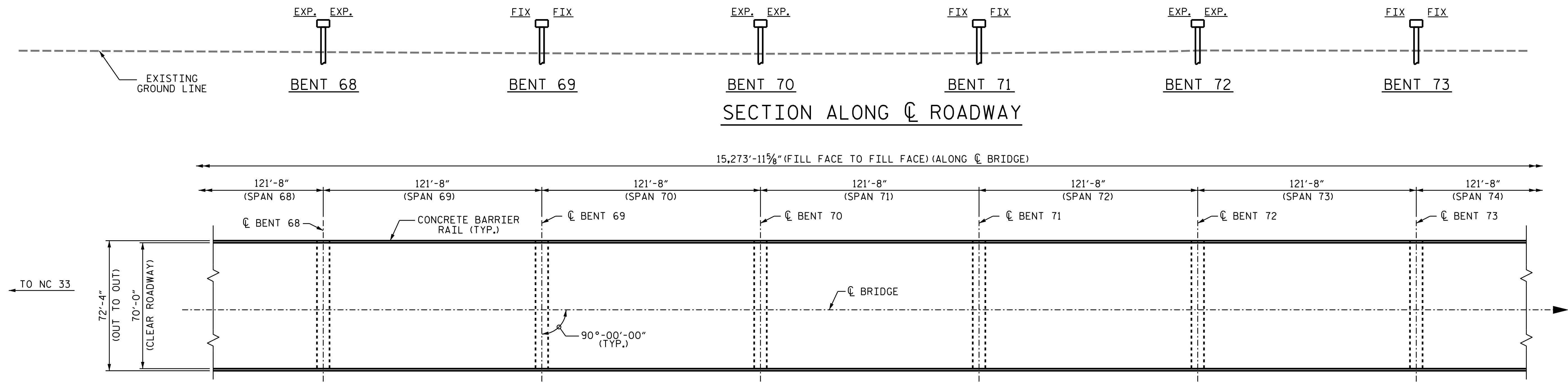


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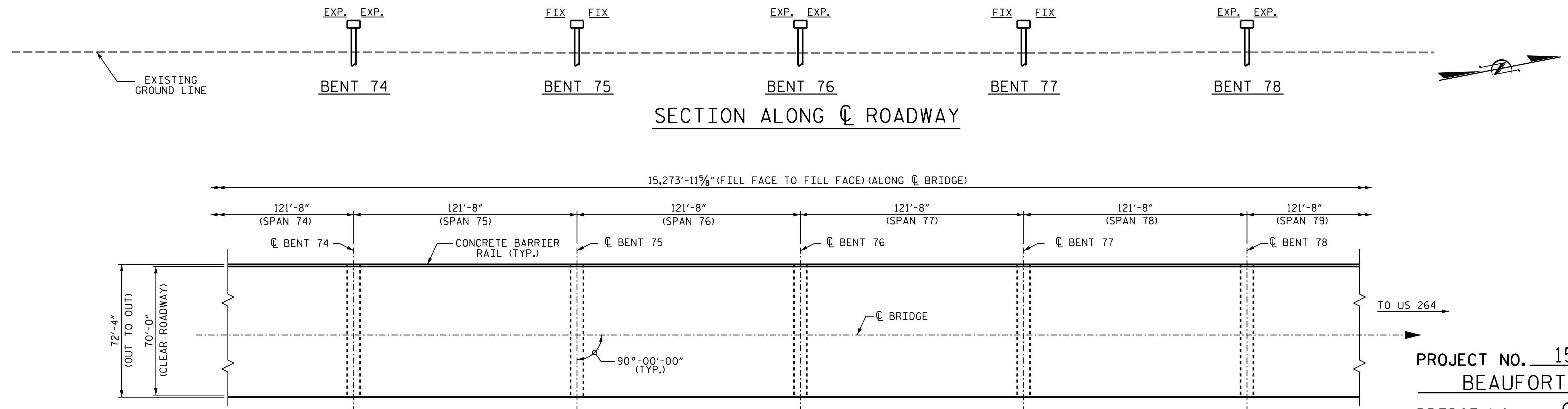
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CHECKED BY : W. C. SMITH DATE : 10/04/24

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SIGNATURES COMPLETED

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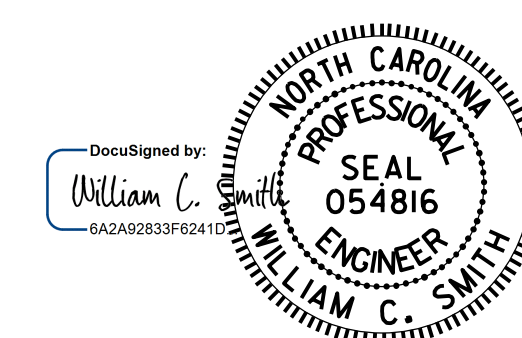
PLAN



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 7 OF 13

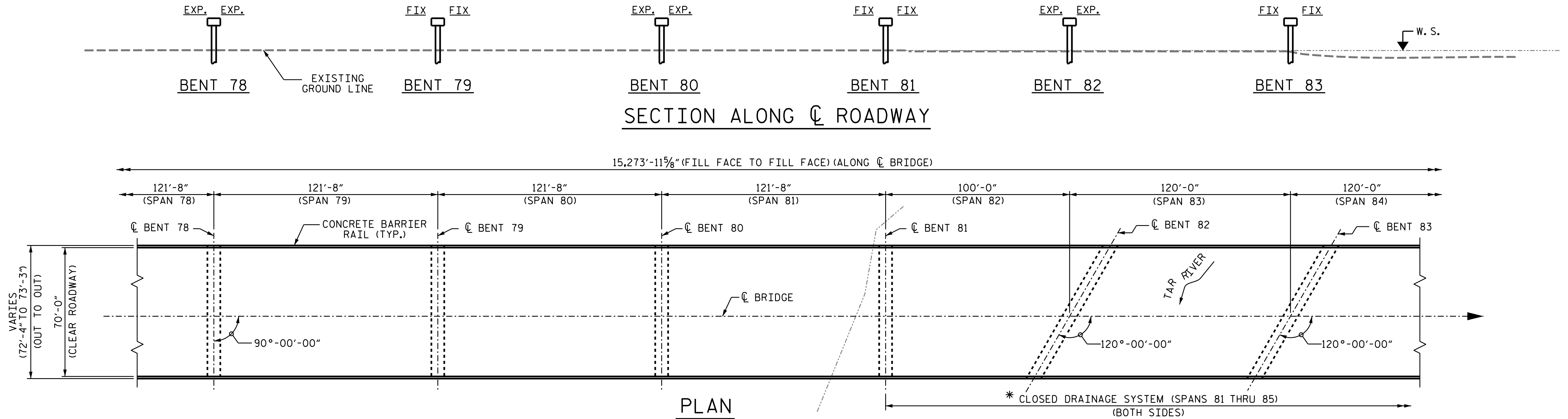


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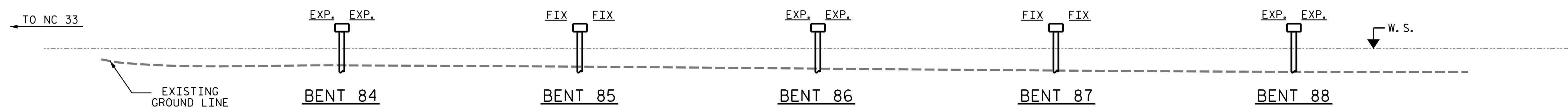
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CHECKED BY : W. C. SMITH DATE : 10/04/24

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SIGNATURES COMPLETED

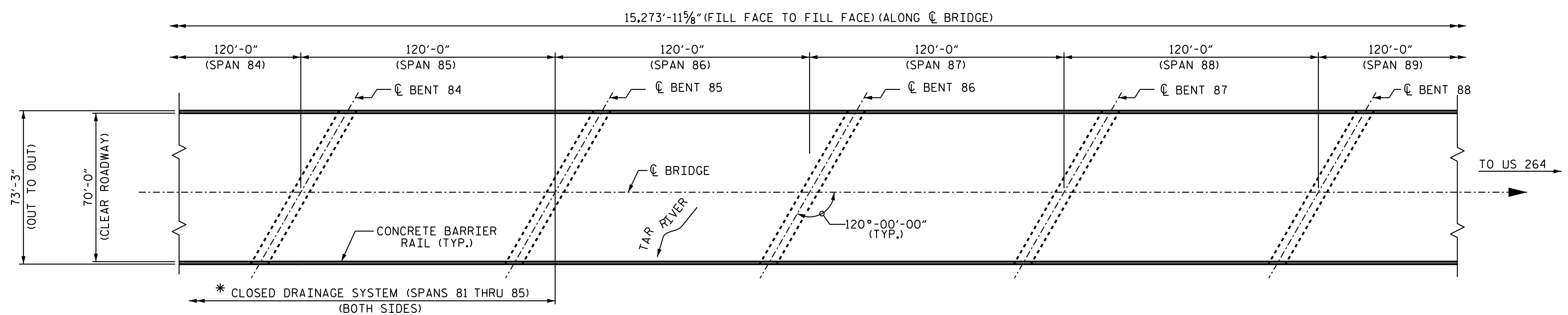
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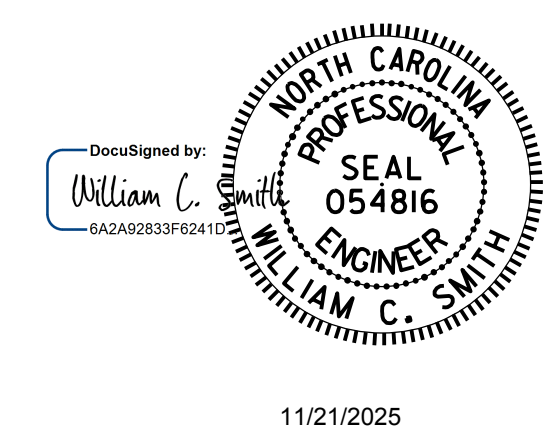


SECTION ALONG CL ROADWAY



PLAN

NOTE:
* SEE SHEET NO. S-213 & S-214 FOR DRAINAGE SYSTEM REPAIR DETAILS.



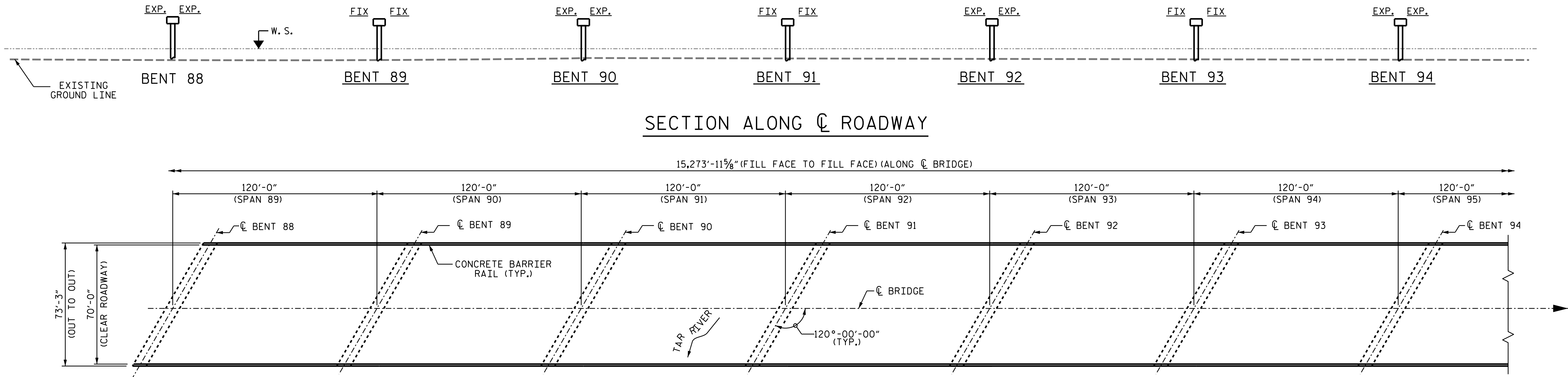
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353
SHEET 8 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

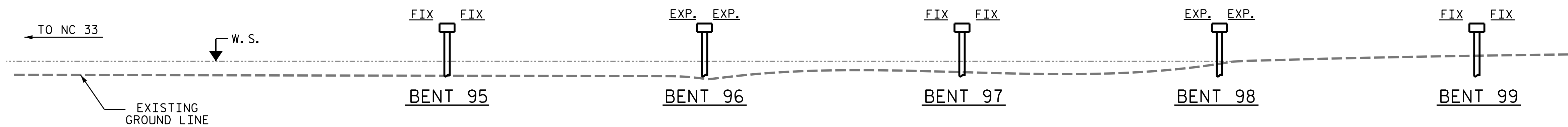
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CHECKED BY : W. C. SMITH DATE : 10/04/24



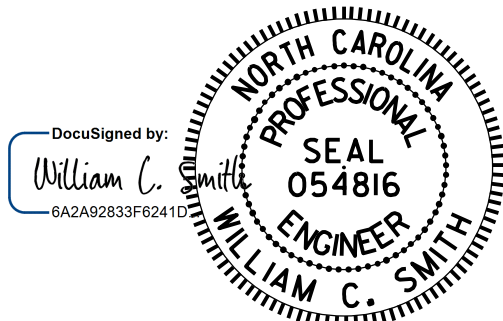
PLAN



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 9 OF 13

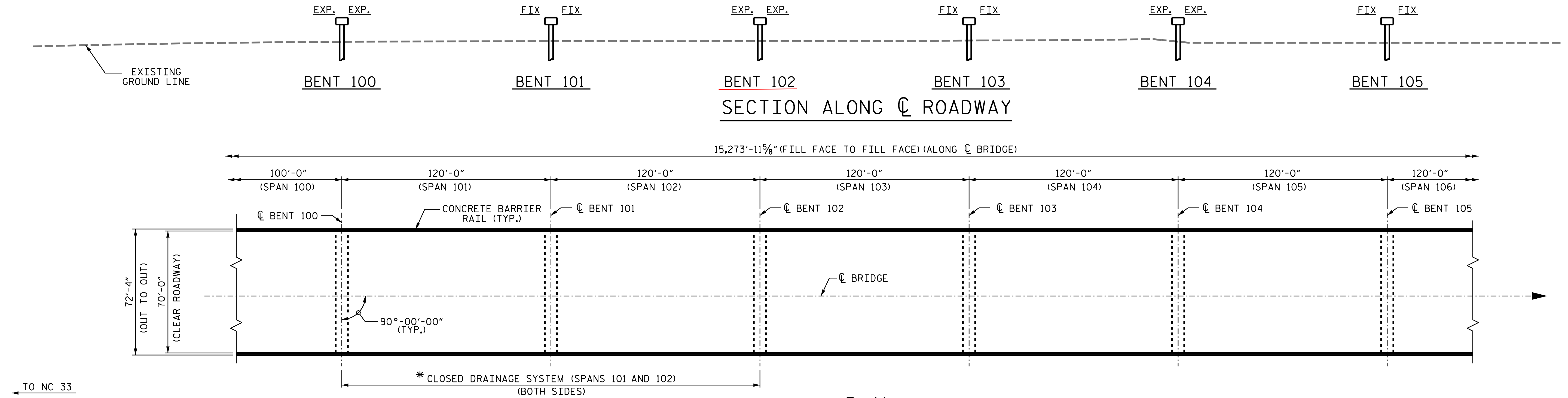


11/21/2025

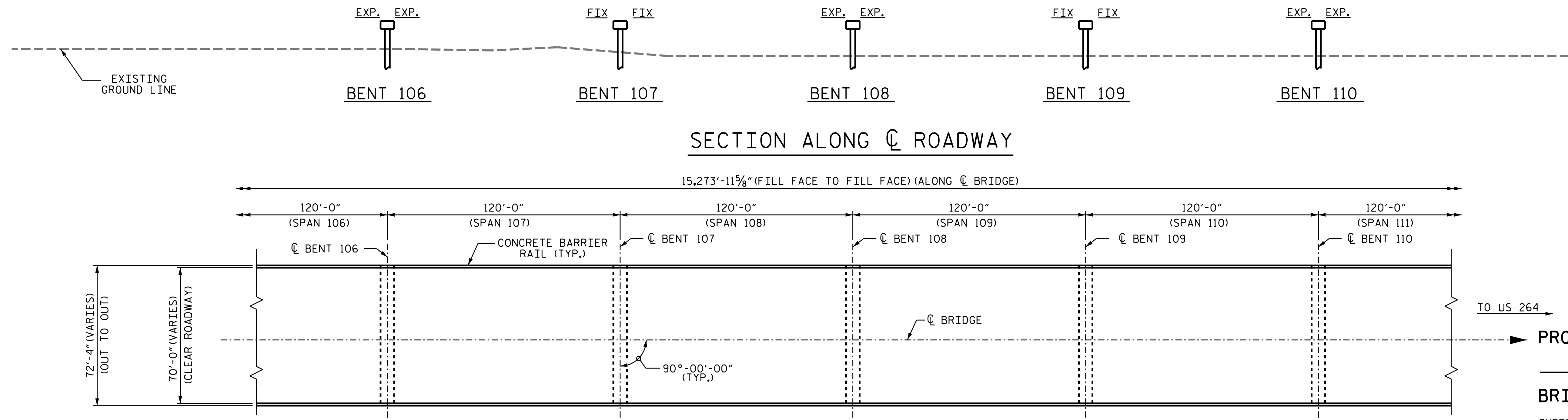
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CHECKED BY : W. C. SMITH DATE : 10/04/24

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			217



PLAN

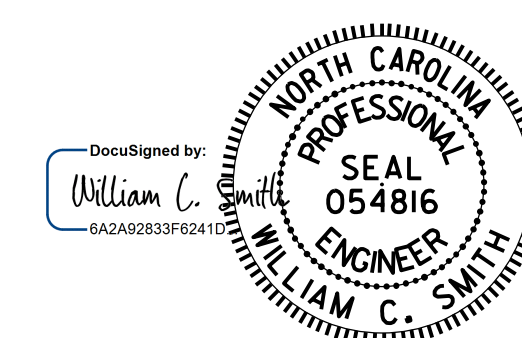


PLAN

NOTE:

- * SEE SHEET NO. S-213 & S-214 FOR DRAINAGE SYSTEM REPAIR DETAILS.

DRAWN BY : S. T. SANDOR DATE : 02/21/24
CHECKED BY : W. C. SMITH DATE : 10/04/24



11/21/2025

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

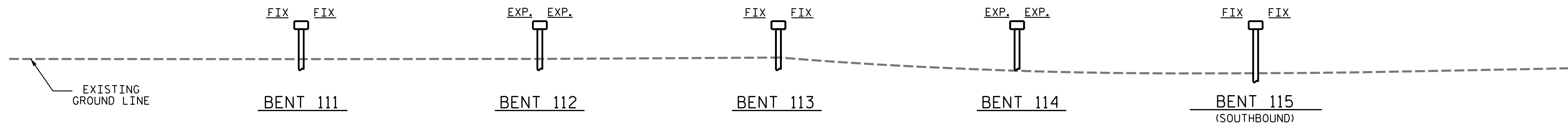
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 10 OF 13

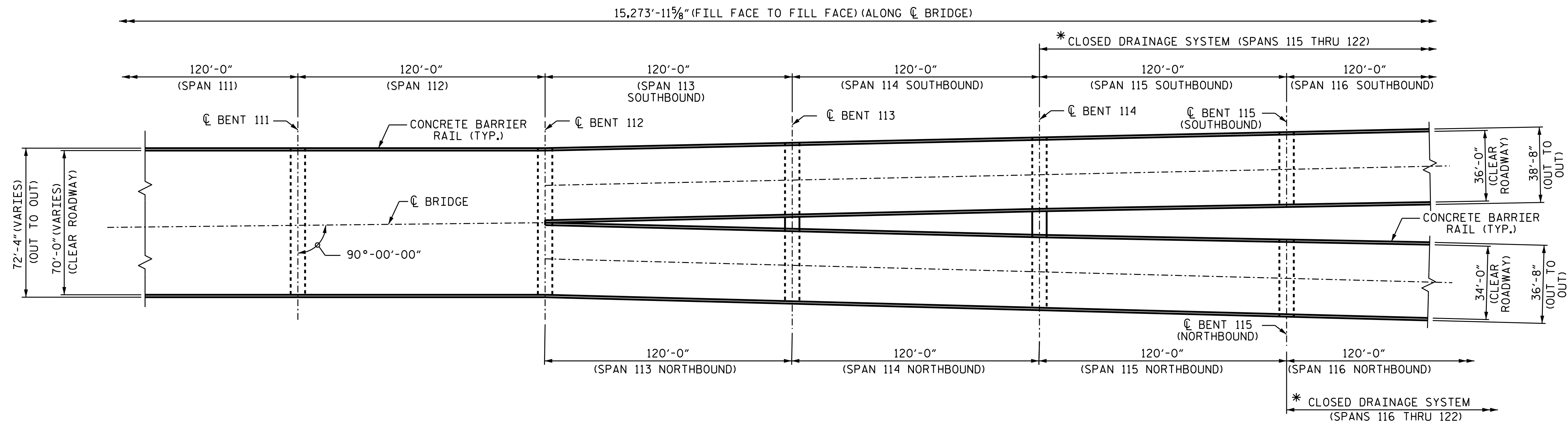
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

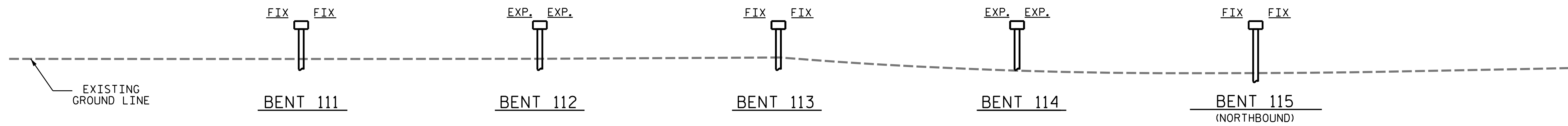
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-11
1			3			TOTAL SHEETS
2			4			217



SECTION ALONG CL ROADWAY



PLAN



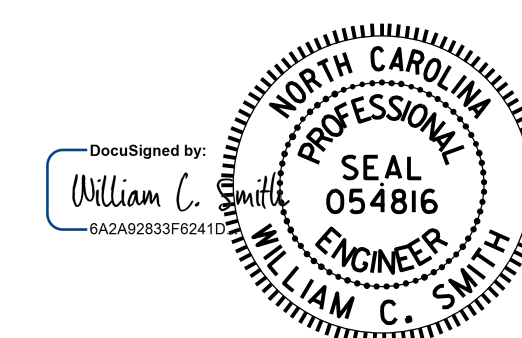
SECTION ALONG CL ROADWAY

NOTE:

* SEE SHEET NO. S-213 & S-214 FOR DRAINAGE SYSTEM REPAIR DETAILS.

DRAWN BY : S. T. SANDOR DATE : 02/21/24
CHECKED BY : W. C. SMITH DATE : 10/04/24

11/20/2025
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11/21/2025

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SIGNATURES COMPLETED

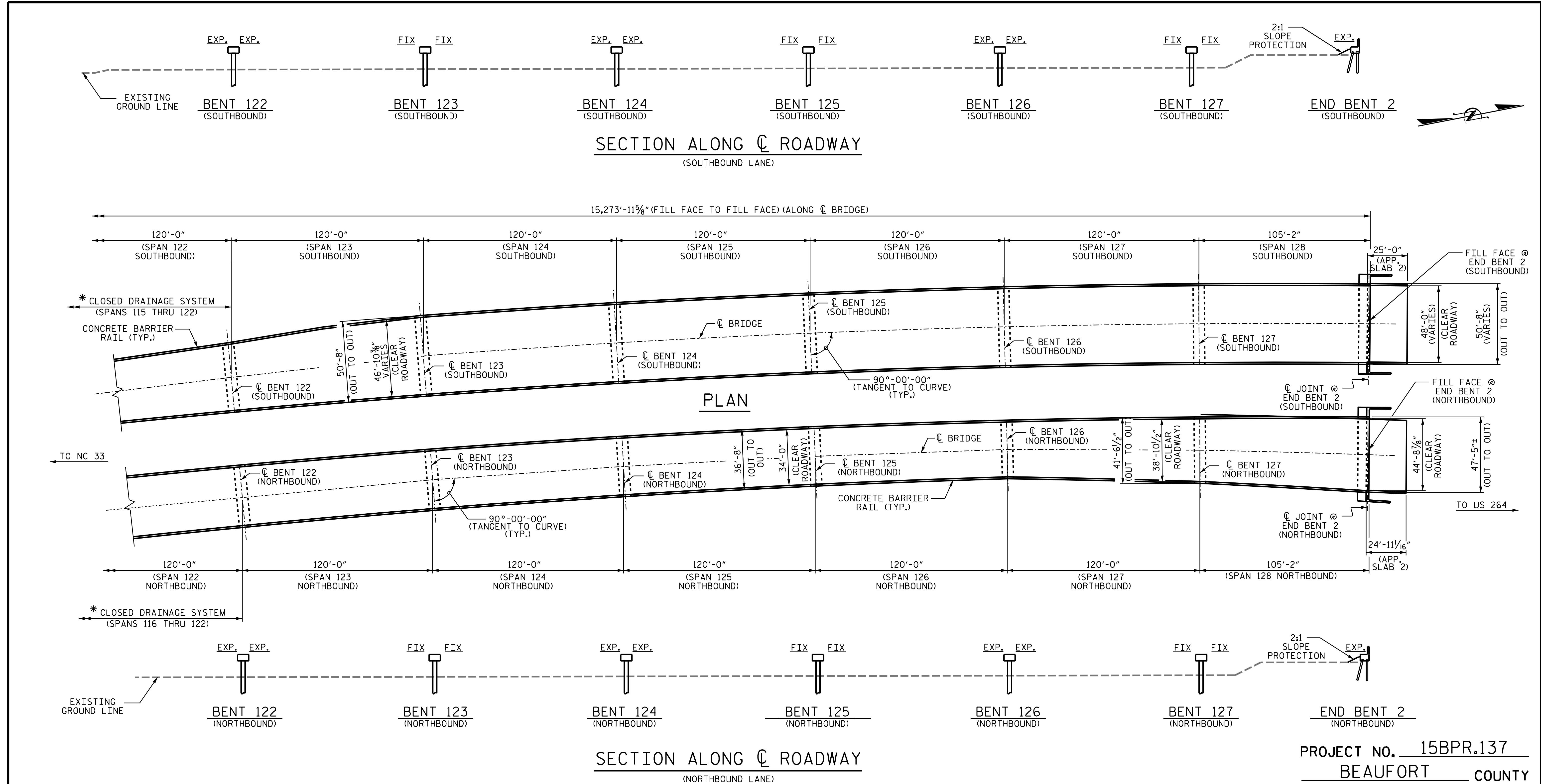
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 11 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			217



NOTE:

* SEE SHEET NO. S-213 & S-214 FOR CLOSED DRAINAGE SYSTEM DETAILS.

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

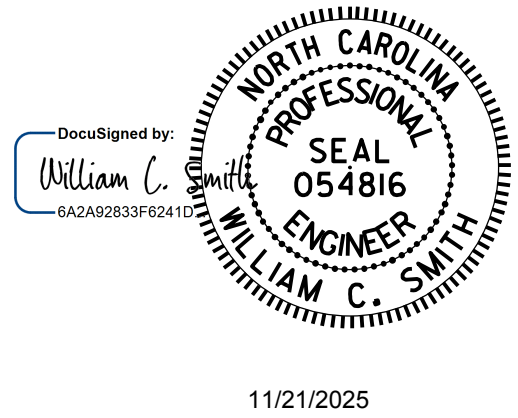
BRIDGE NO. 060353

SHEET 13 OF 13

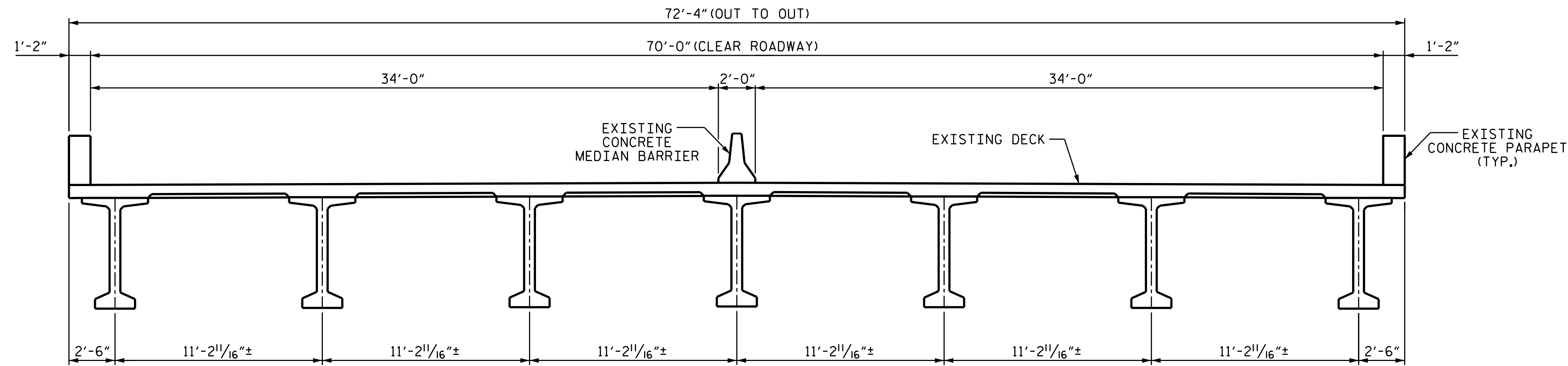
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUPERSTRUCTURE GENERAL DRAWING FOR BRIDGE ON US 17 BYPASS OVER TAR RIVER BETWEEN NC 33 AND US 264					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
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DRAWN BY : S. T. SANDOR DATE : 02/21/24

CHECKED BY : W. C. SMITH DATE : 10/04/24

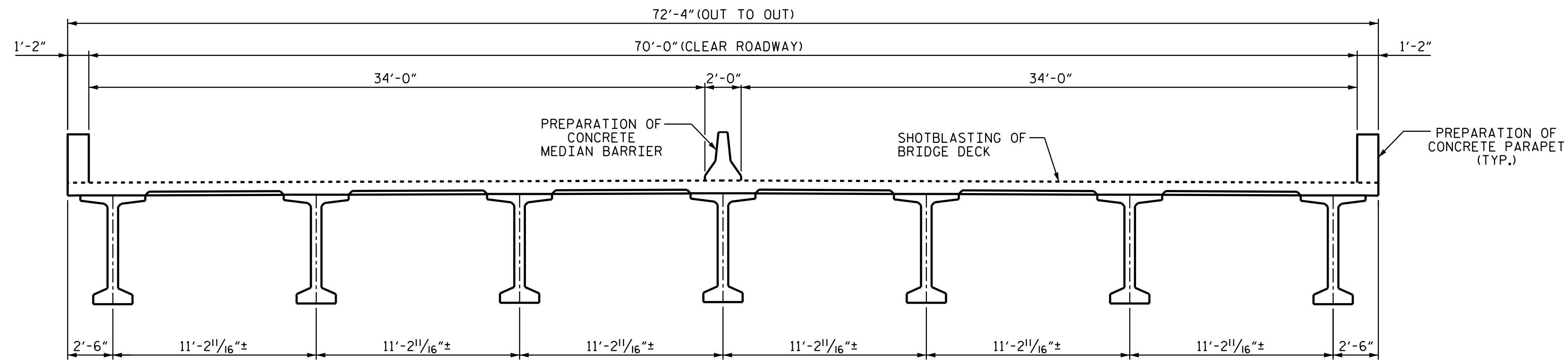


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SIGNATURES COMPLETED



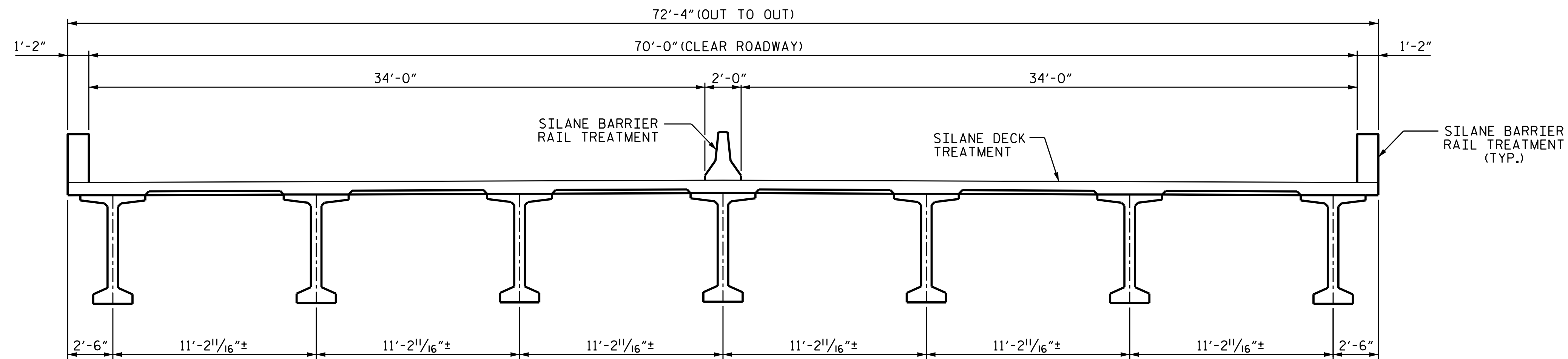
TYPICAL SECTION

EXISTING (SPANS 1-81, 101 & 102)



TYPICAL SECTION

INTERMEDIATE (SPANS 1-81, 101 & 102)



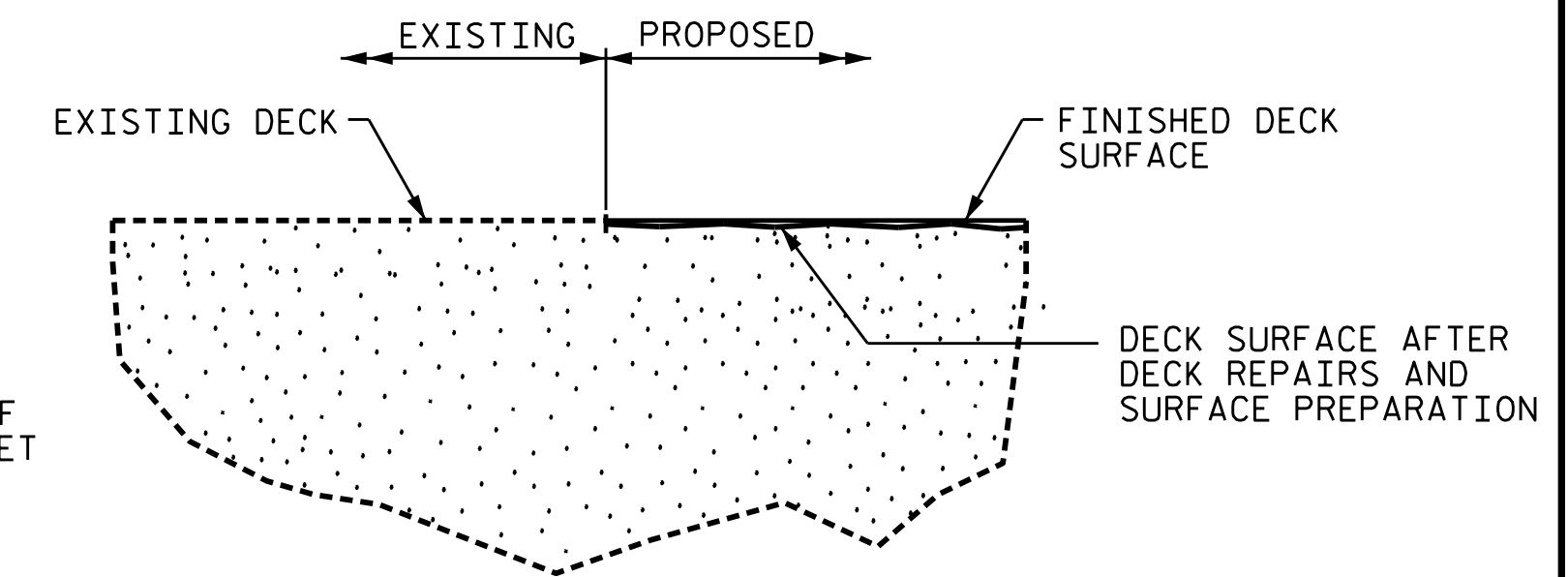
TYPICAL SECTION

PROPOSED (SPANS 1-81, 101 & 102)

NOTES

GIRDERS ARE 72" BULB TEES.

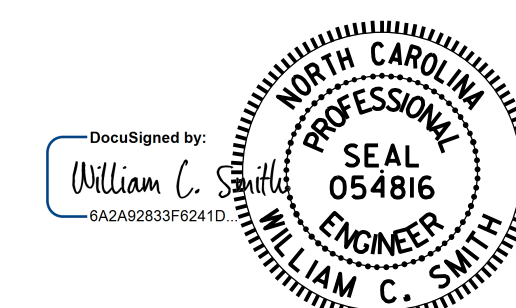
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



DETAIL FOR SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 1 OF 13

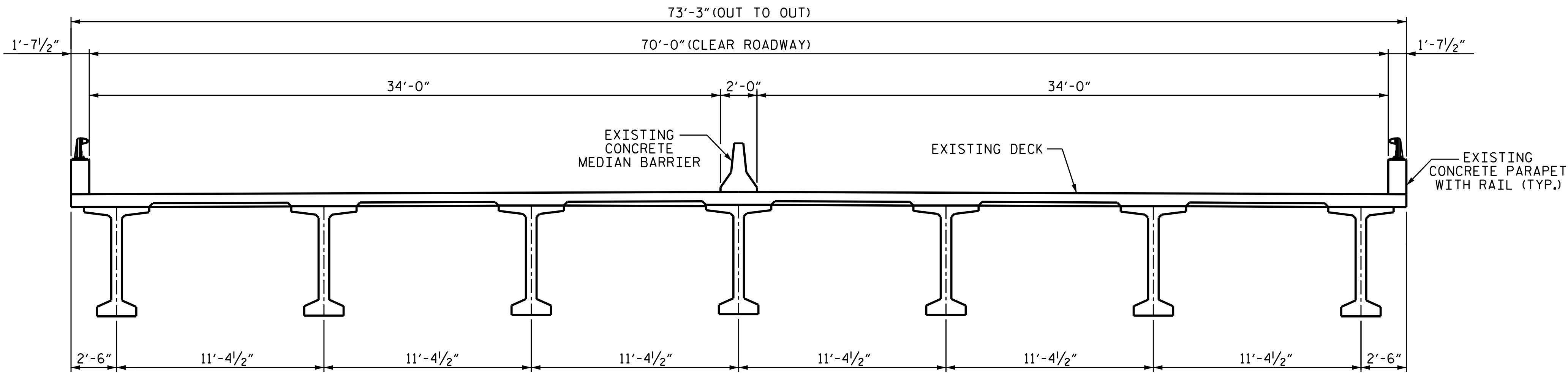


11/21/2025

DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

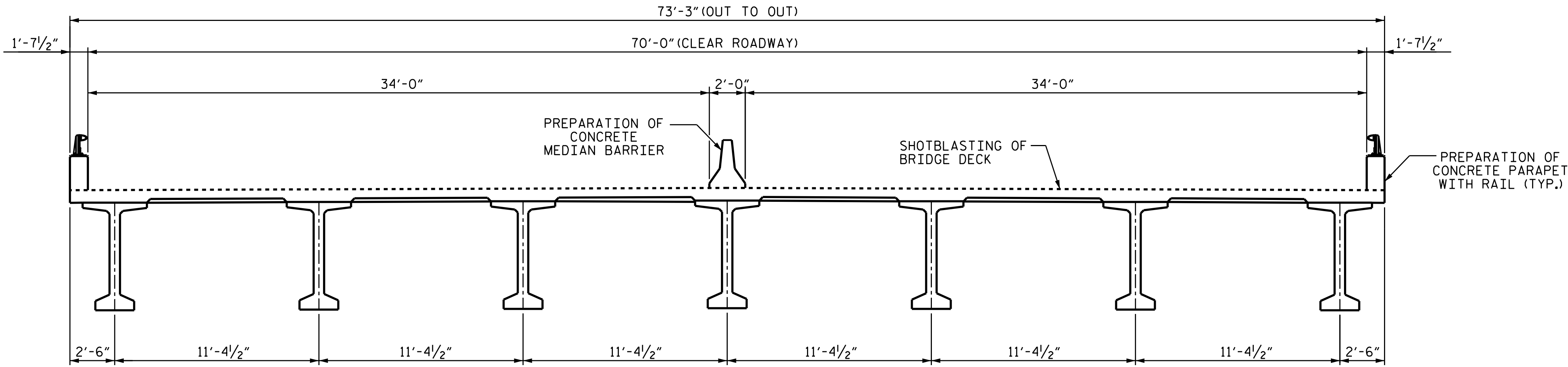
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1			3			TOTAL SHEETS
2			4			217



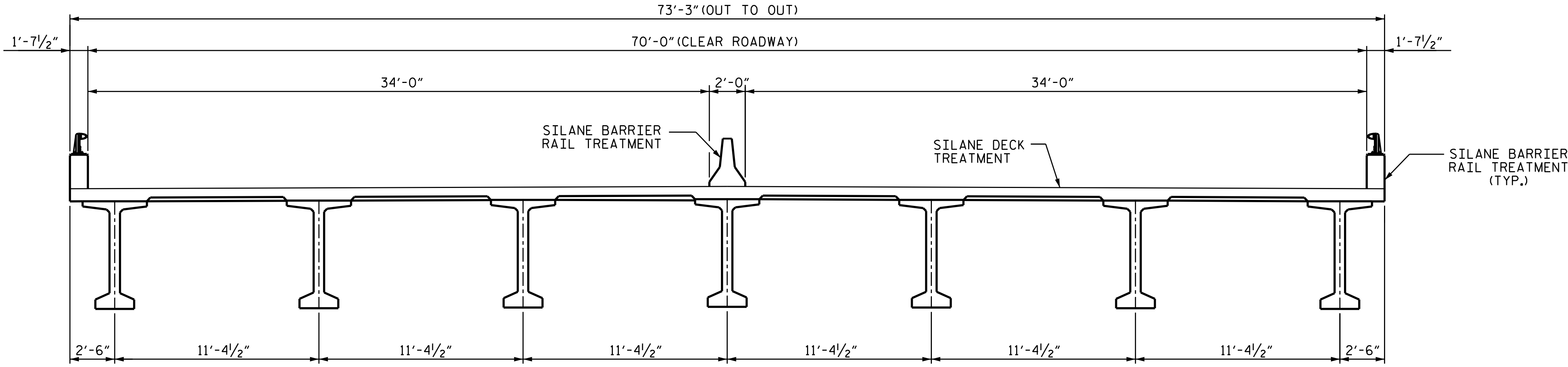
TYPICAL SECTION

EXISTING (SPANS 82-100)



TYPICAL SECTION

INTERMEDIATE (SPANS 82-100)



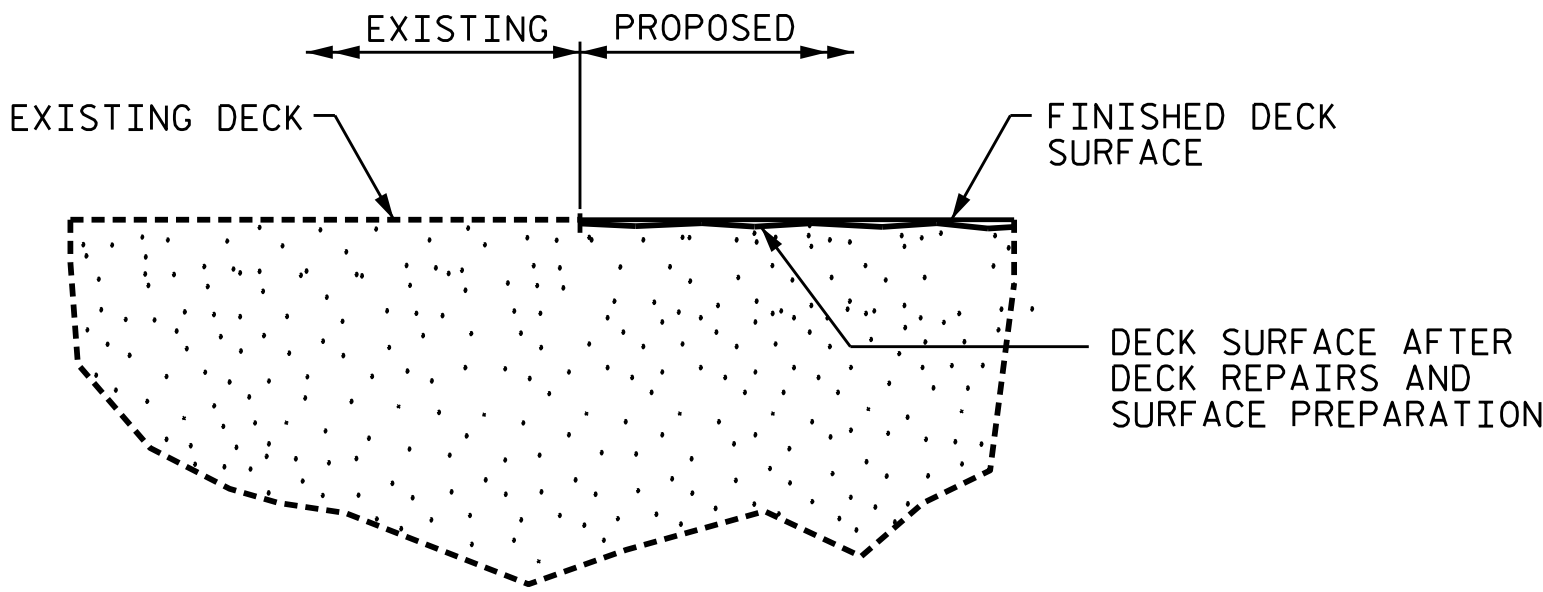
TYPICAL SECTION

PROPOSED (SPANS 82-100)

NOTES

GIRDERS ARE 72" BULB TEES.

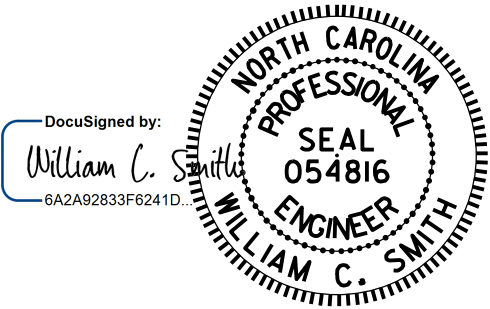
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 2 OF 13



11/21/2025

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

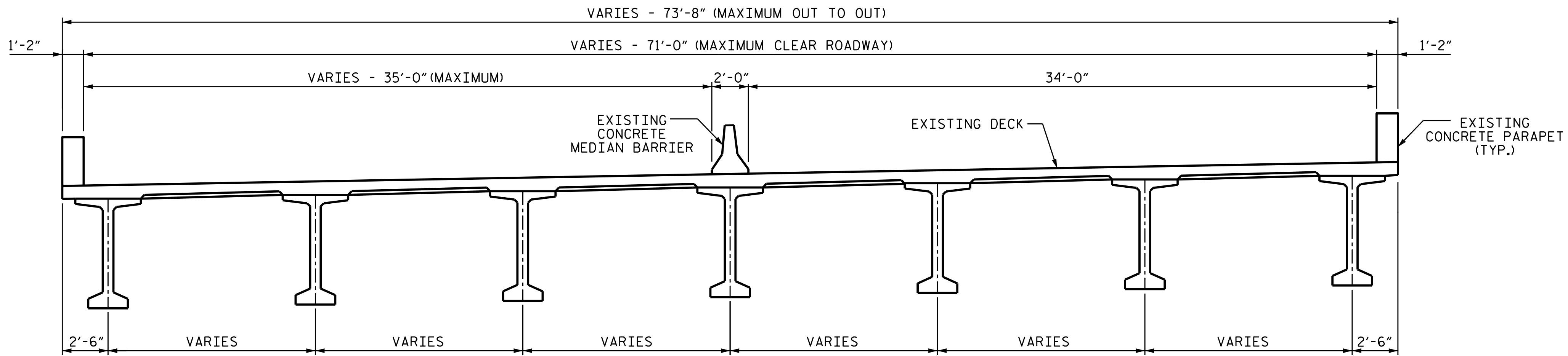
TYPICAL SECTION
DETAILS

(SPANS 82-100)

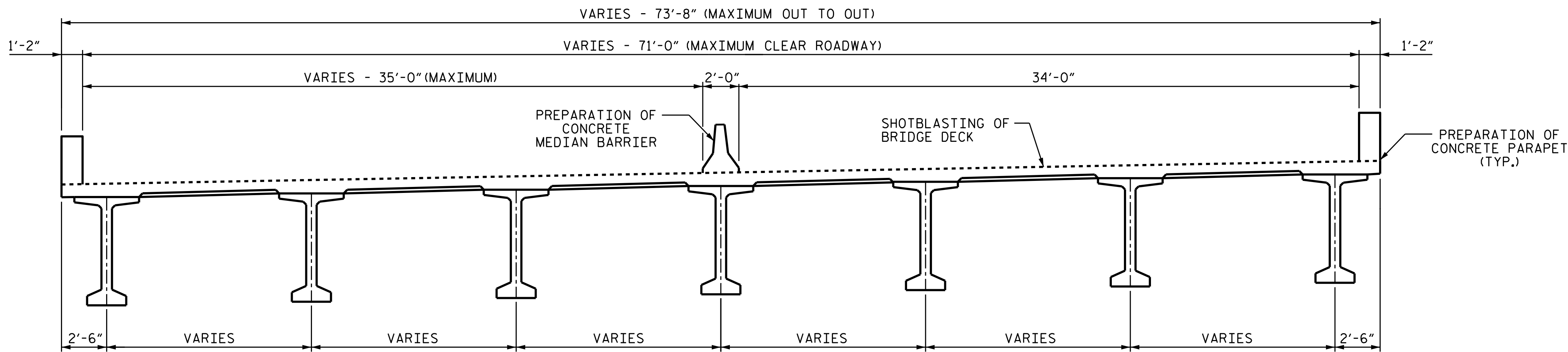
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CHECKED BY : W. C. SMITH DATE : 5/1/24

DOCUMENT NOT CONSIDERED
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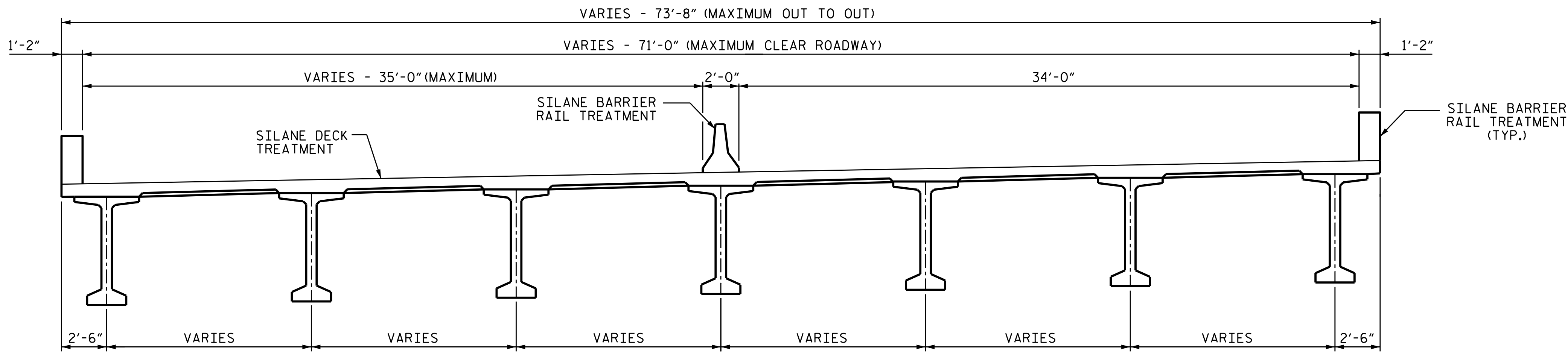
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			217



TYPICAL SECTION
EXISTING



TYPICAL SECTION
INTERMEDIATE

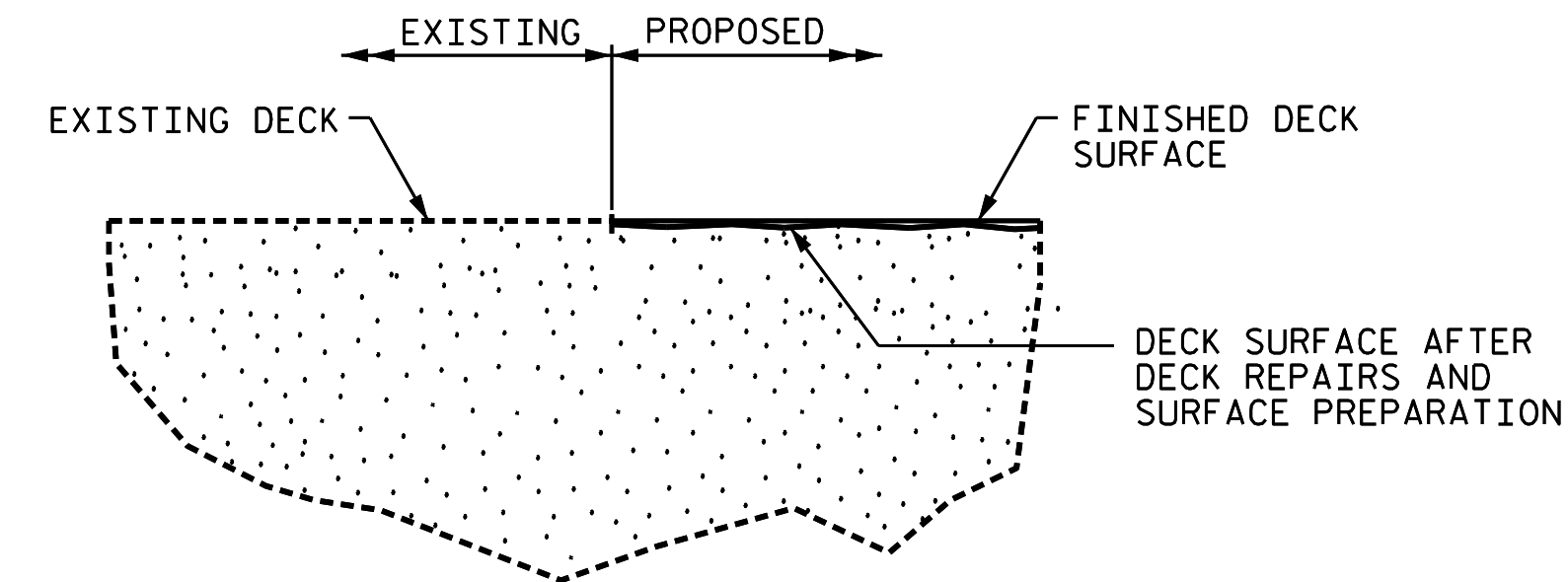


TYPICAL SECTION
PROPOSED

NOTES

GIRDERS ARE 72" BULB TEES.

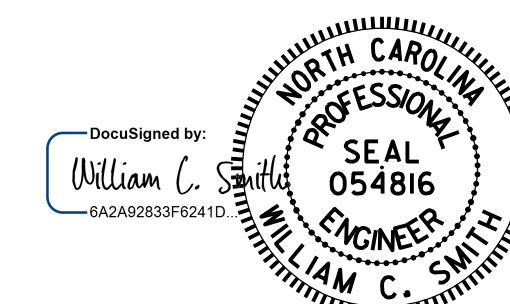
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 3 OF 13



11/21/2025

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

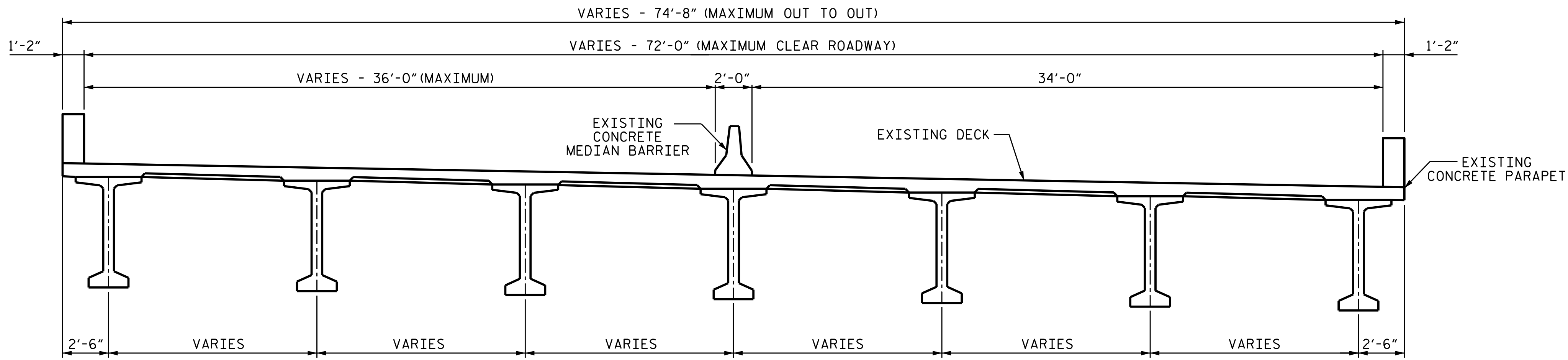
TYPICAL SECTION
DETAILS
(SPAN 103)

DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

11/20/2025
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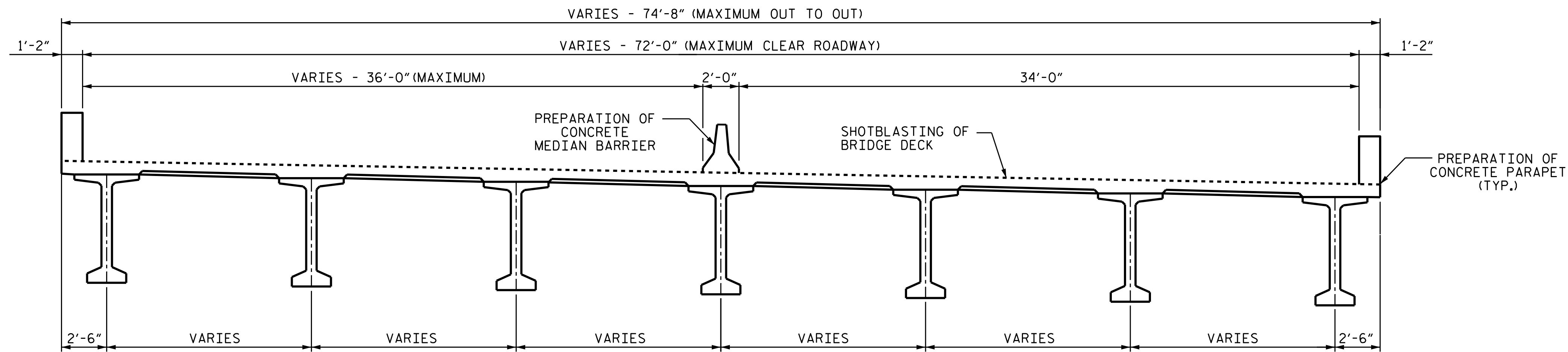
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SIGNATURES COMPLETED

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NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			217



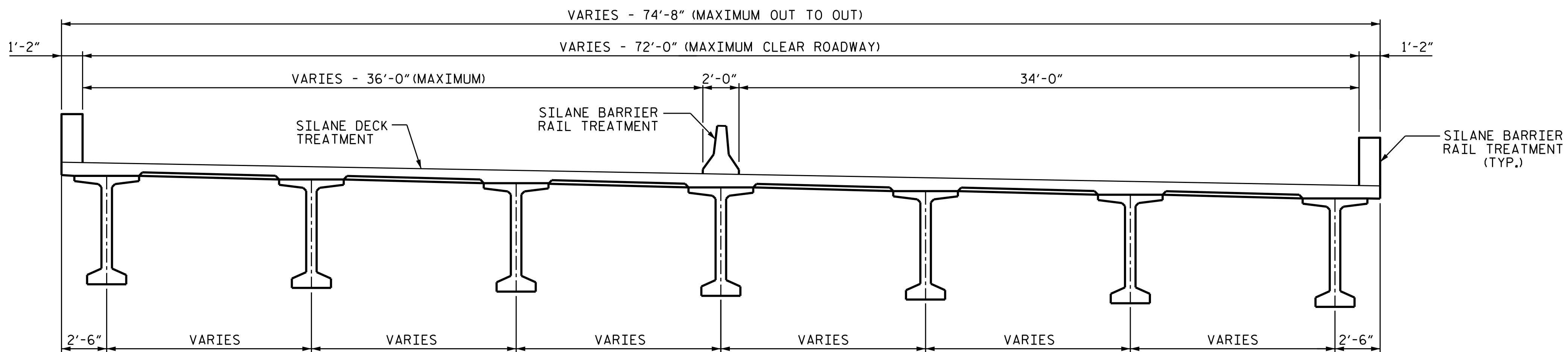
TYPICAL SECTION

EXISTING



TYPICAL SECTION

PROPOSED



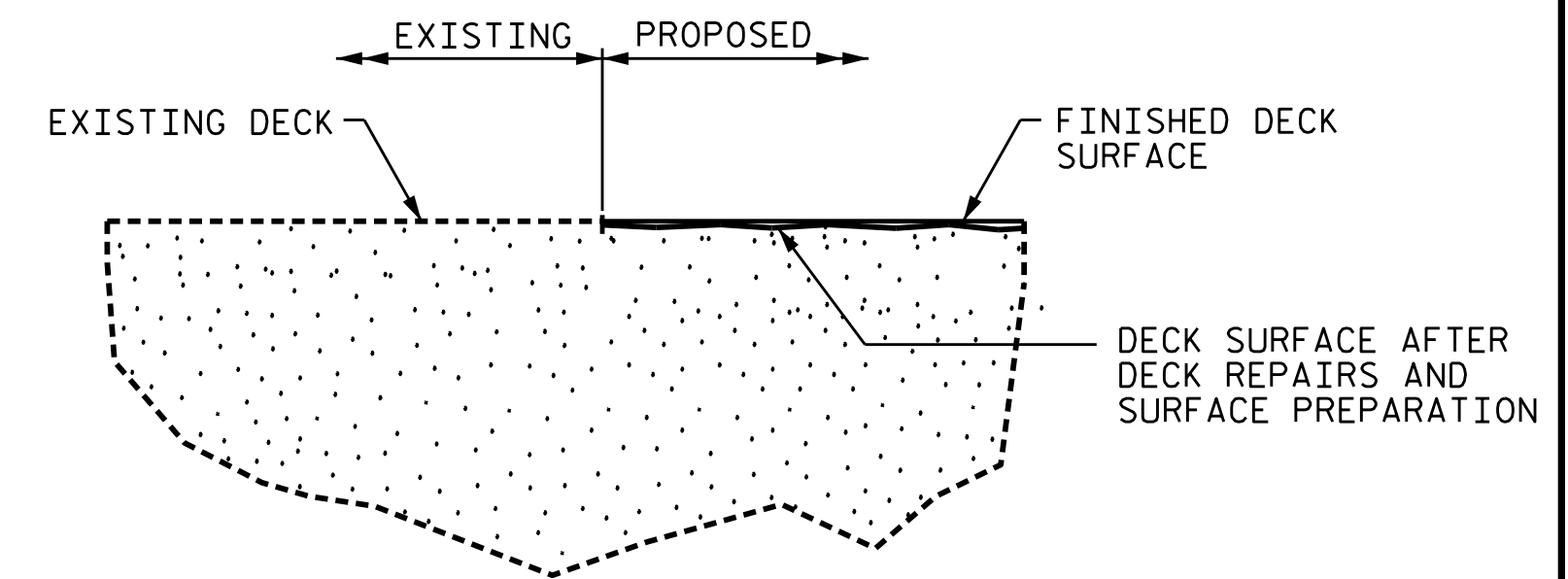
TYPICAL SECTION

PROPOSED

NOTES

GIRDERS ARE 72" BULB TEES.

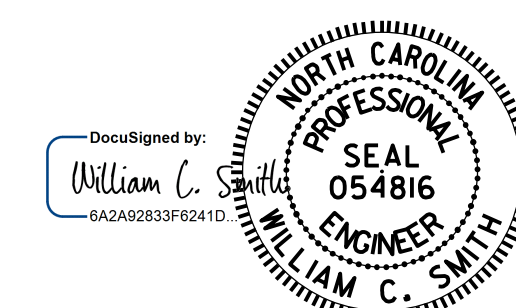
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 4 OF 15



11/21/2025

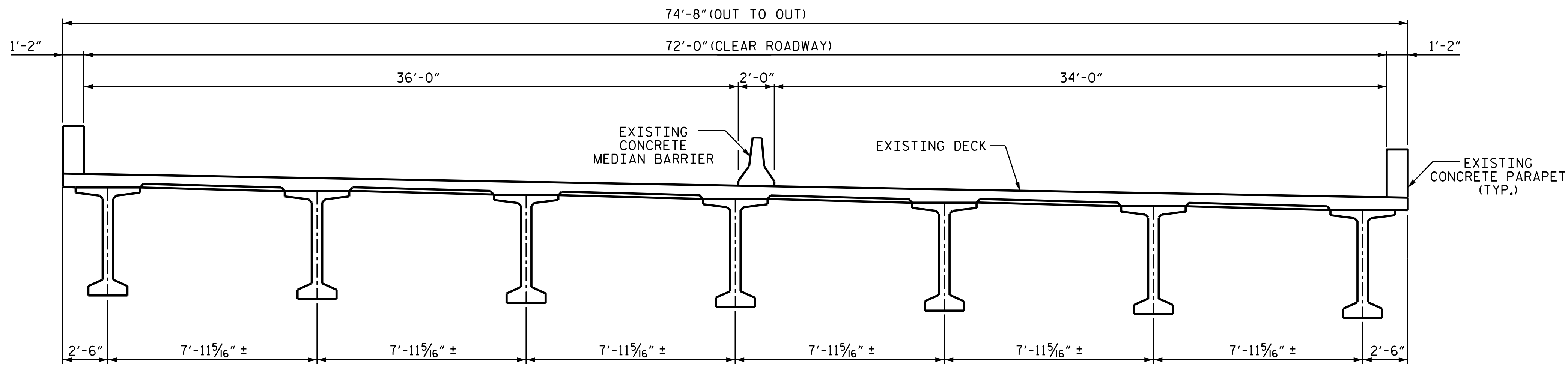
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION
DETAILS
(SPAN 104)

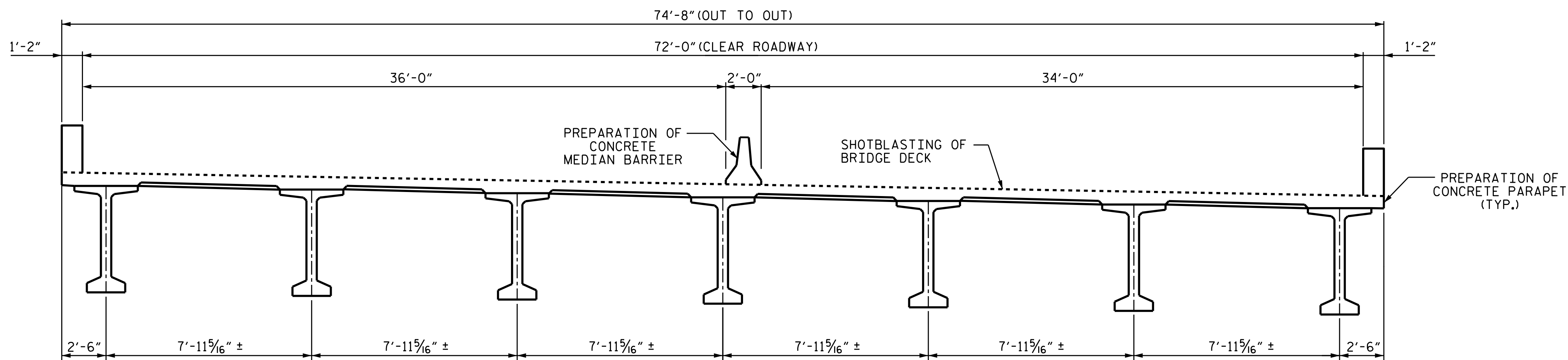
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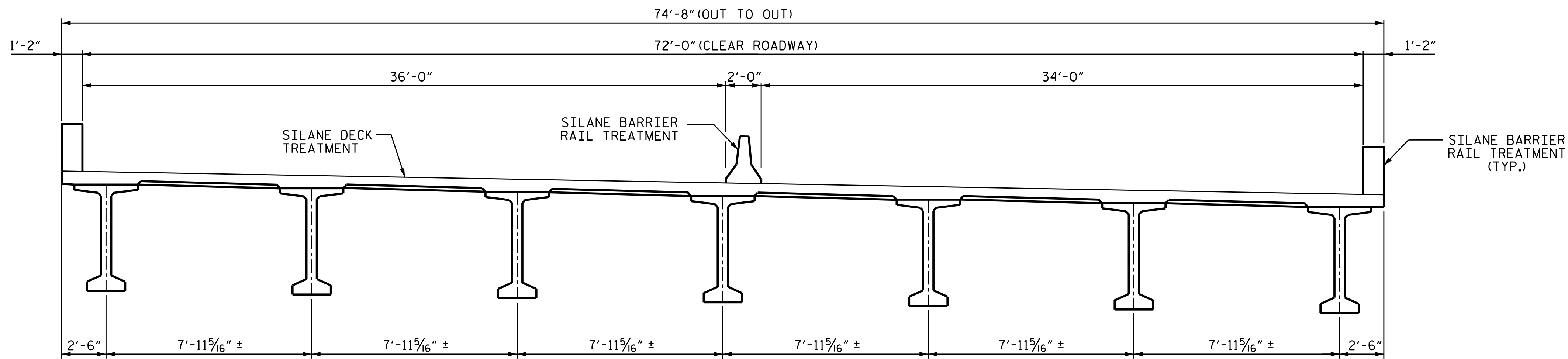
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NO.	BY:	DATE:	NO.	BY:	DATE:	
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TYPICAL SECTION
EXISTING (SPANS 105-110)



TYPICAL SECTION
PROPOSED (SPANS 105-110)

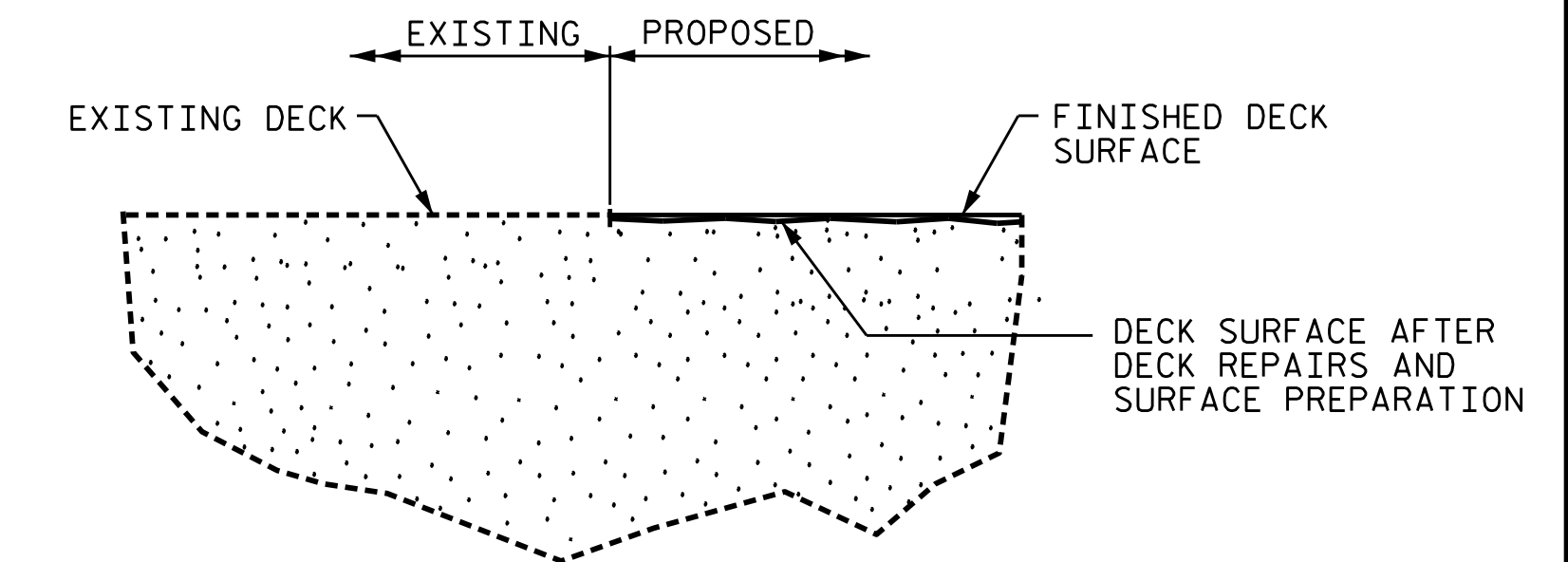


TYPICAL SECTION
PROPOSED (SPANS 105-110)

NOTES

GIRDERS ARE 72" BULB TEES.

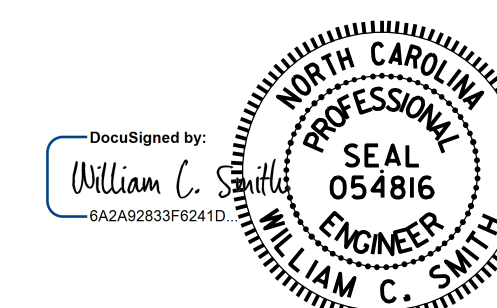
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



**DETAIL FOR
SILANE DECK TREATMENT**

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 5 OF 13

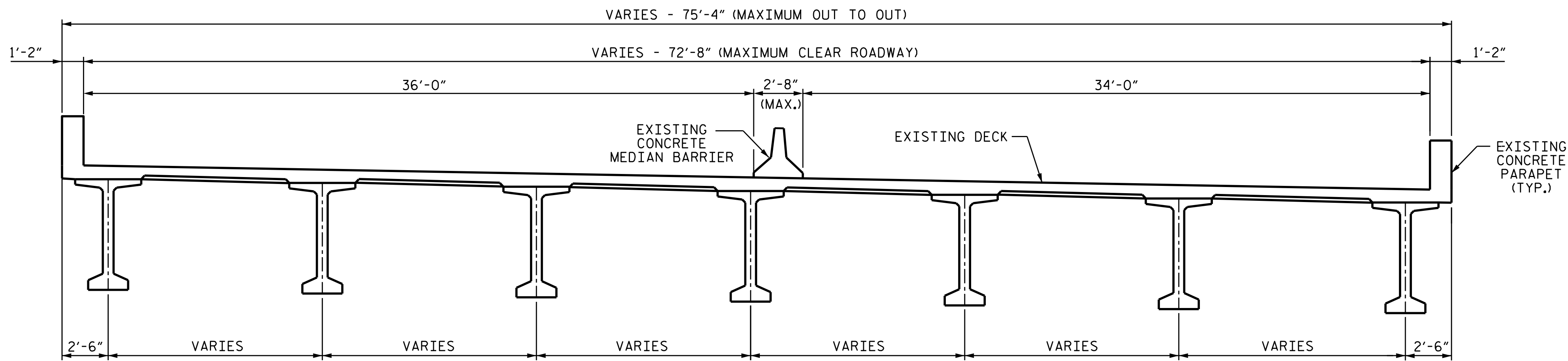


11/21/2025

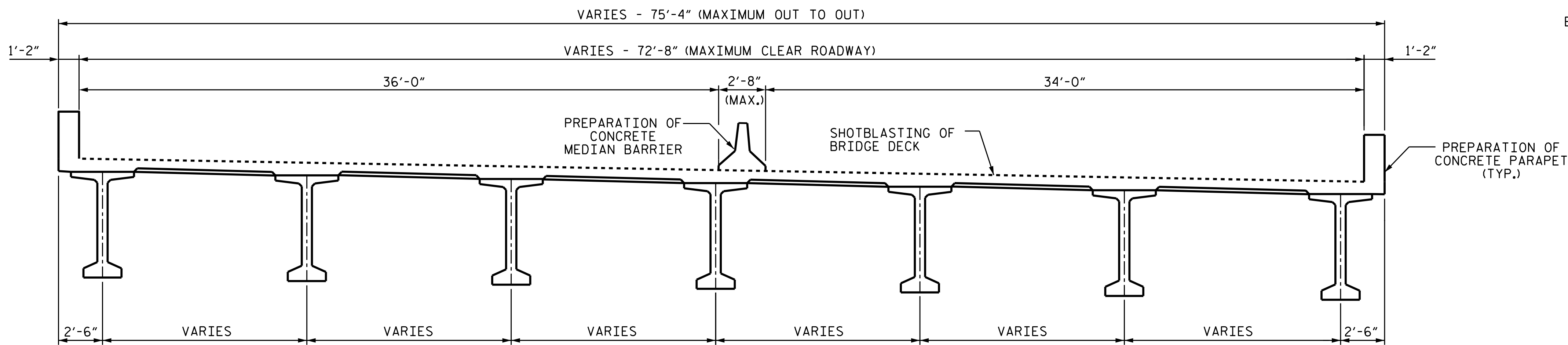
DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

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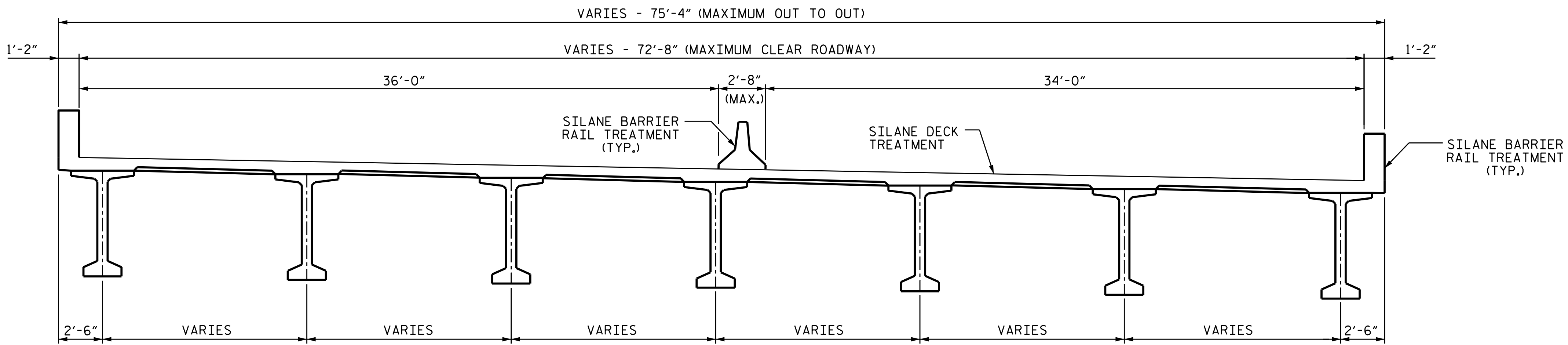
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TYPICAL SECTION
EXISTING



TYPICAL SECTION
INTERMEDIATE

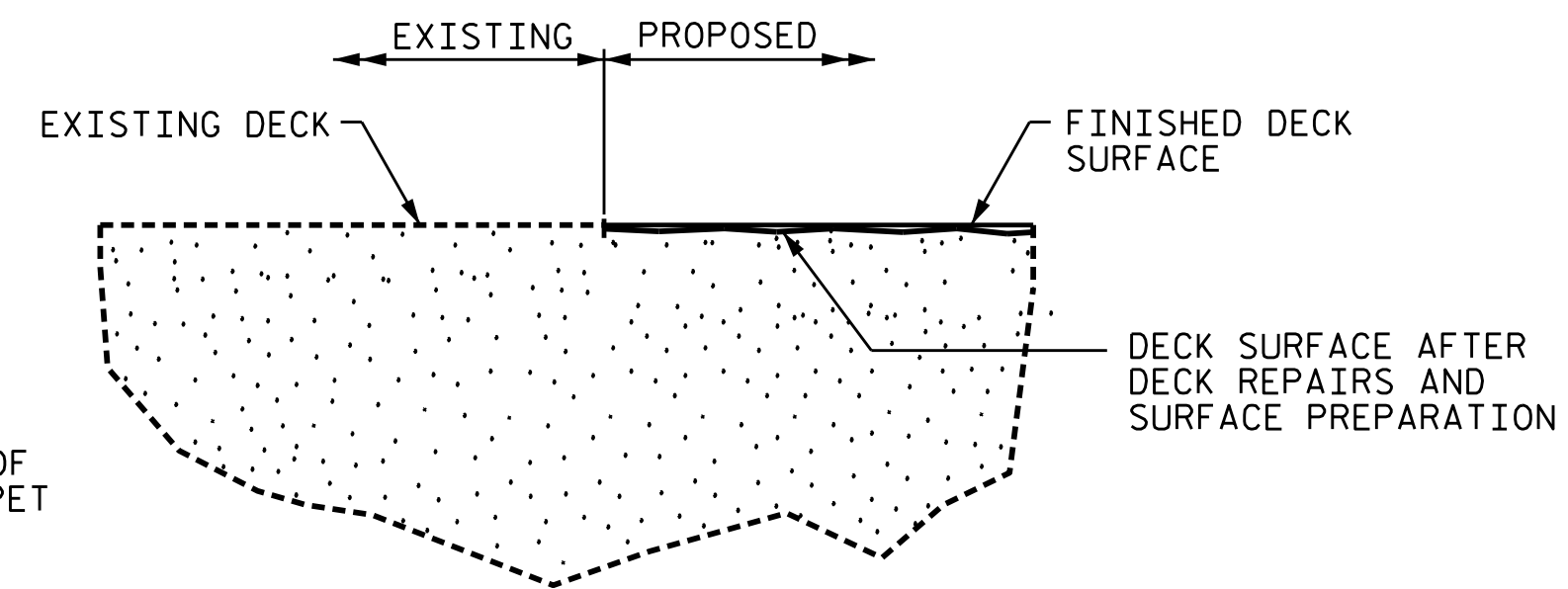


TYPICAL SECTION
PROPOSED

NOTES

GIRDERS ARE 72" BULB TEES.

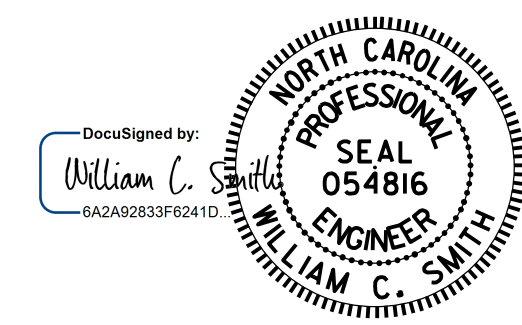
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 6 OF 13

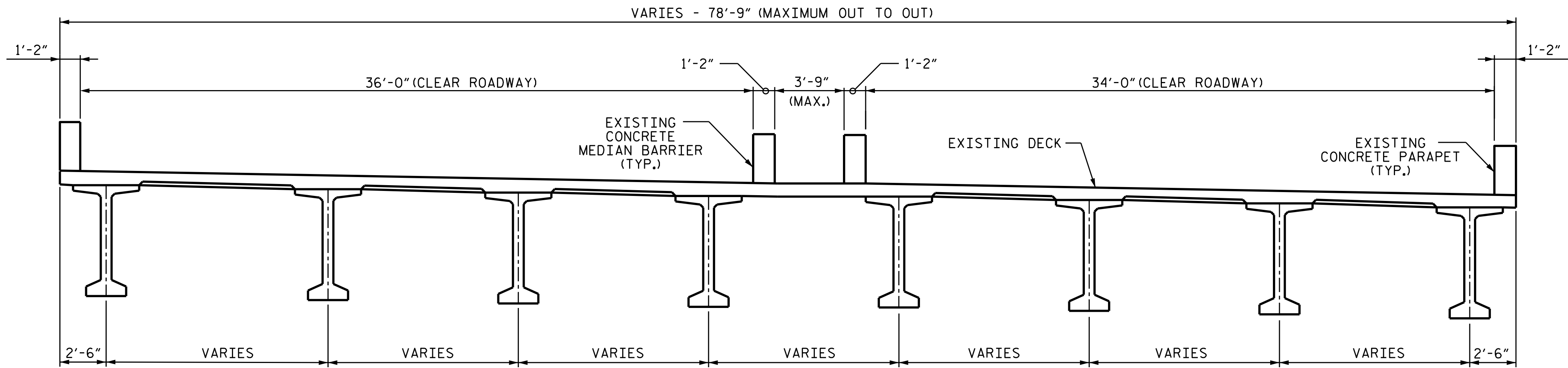


11/21/2025

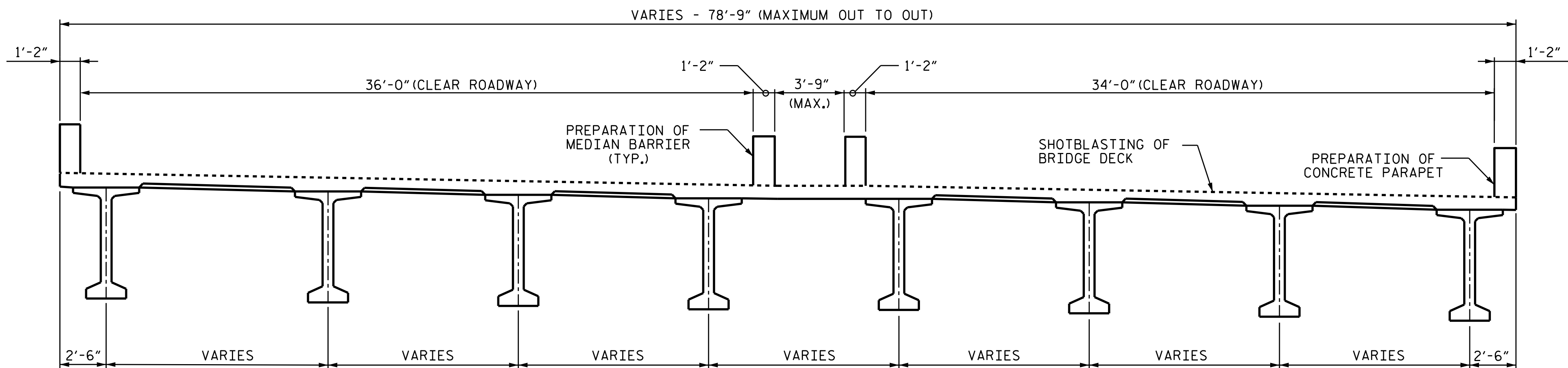
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DRAWN BY : KIM BEARD / S.T.SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

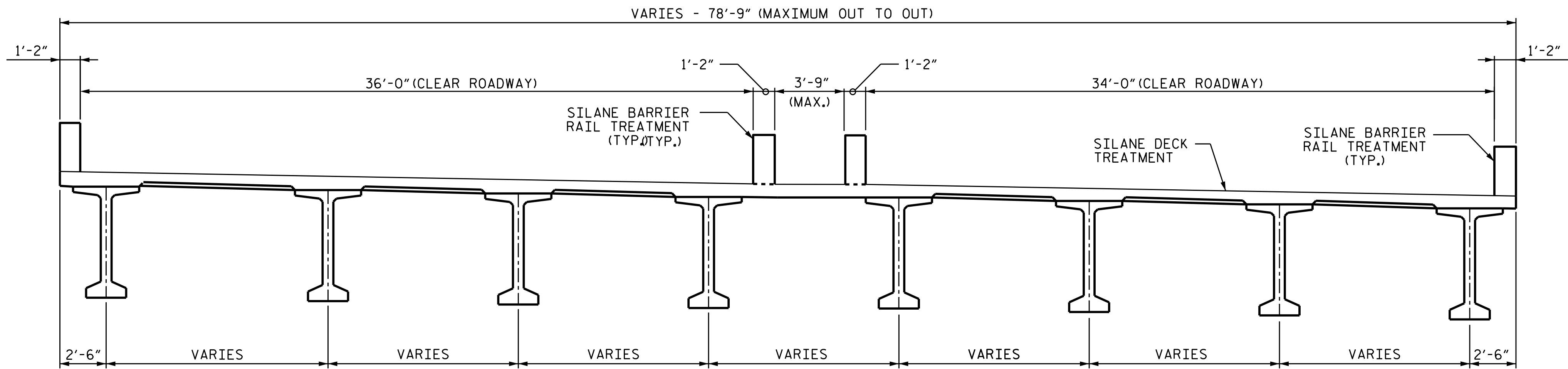
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TYPICAL SECTION
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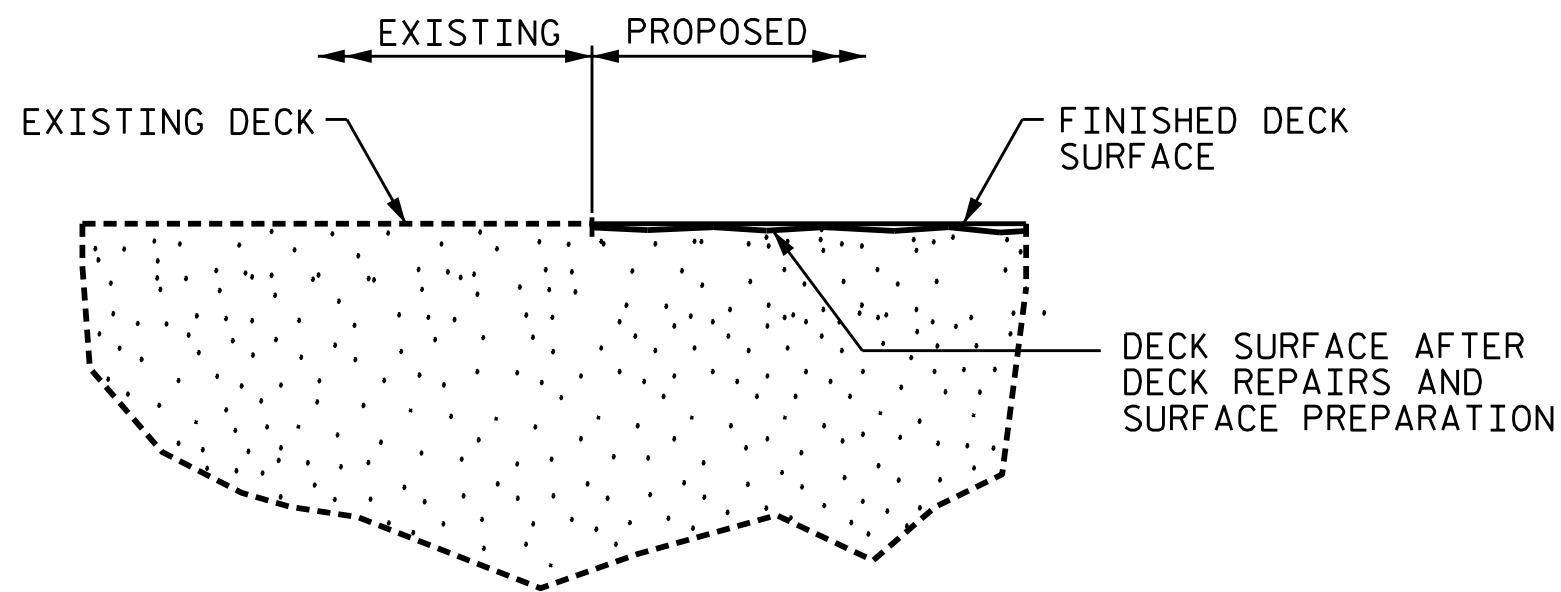
TYPICAL SECTION
INTERMEDIATE



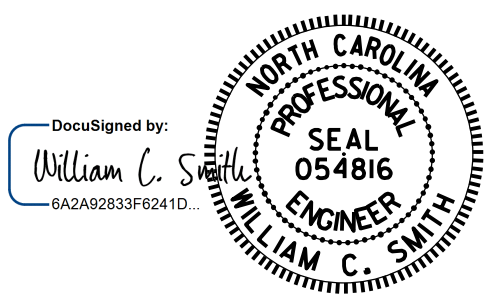
TYPICAL SECTION
PROPOSED

NOTES

GIRDERS ARE 72" BULB TEES.
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT,
SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT



11/21/2025

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 7 OF 13

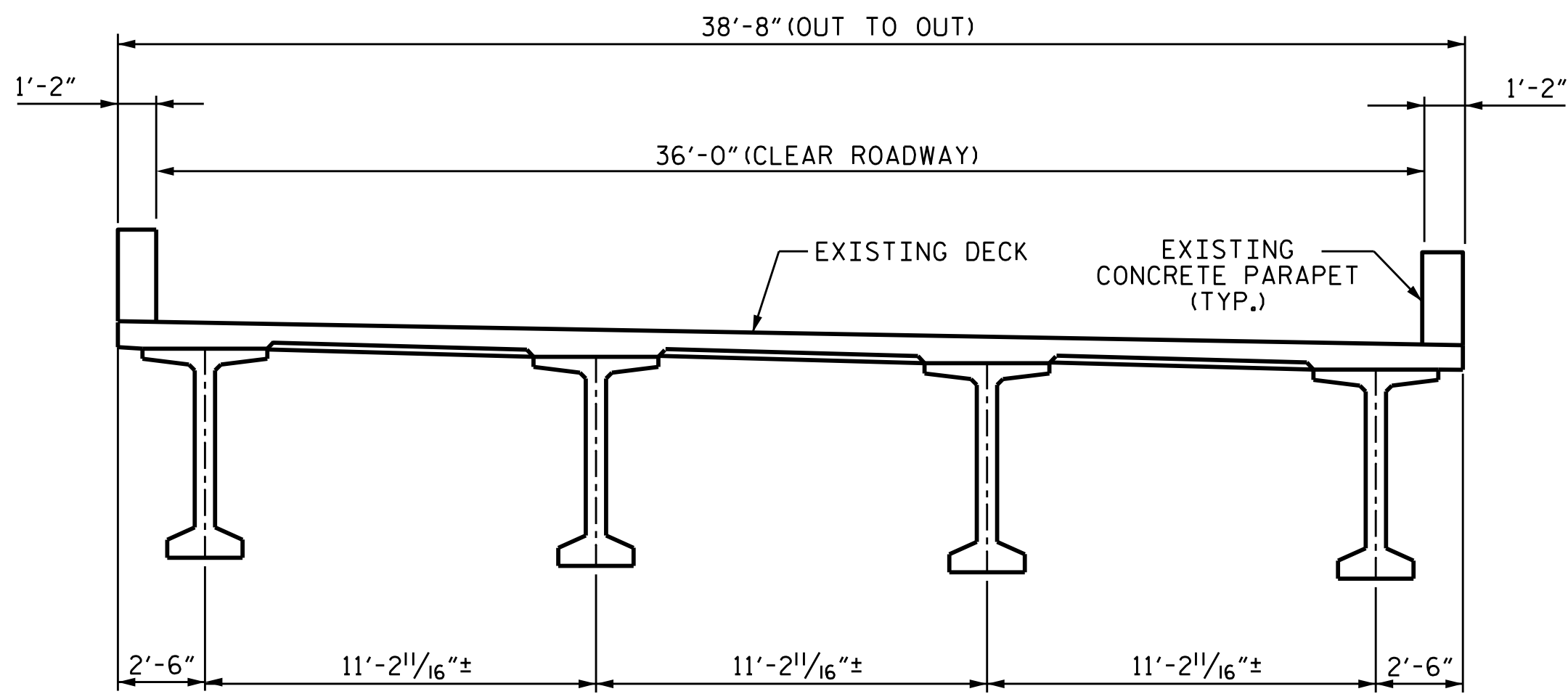
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION
DETAILS
(SPAN 112)

DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

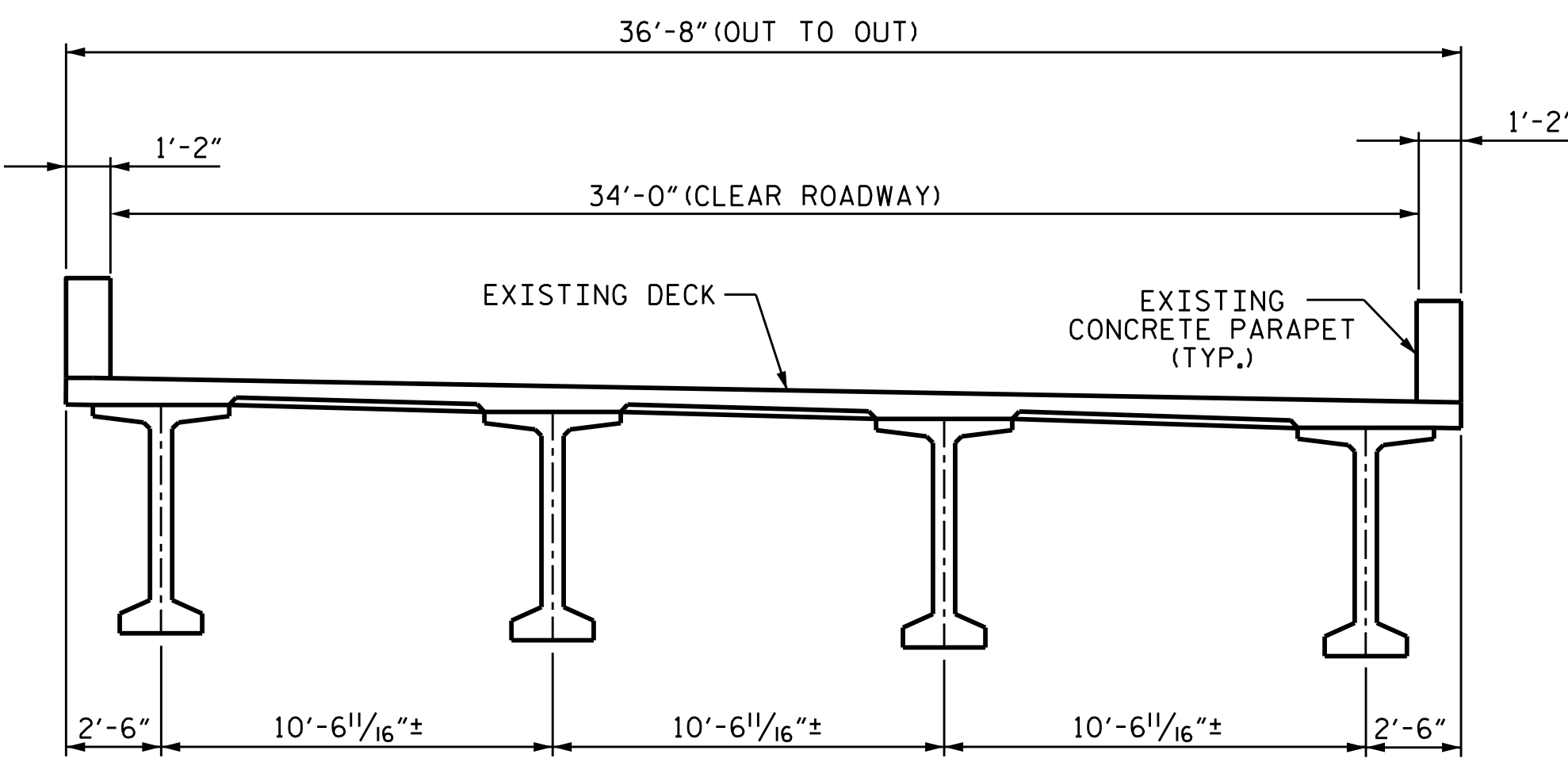
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2			4			TOTAL SHEETS 217



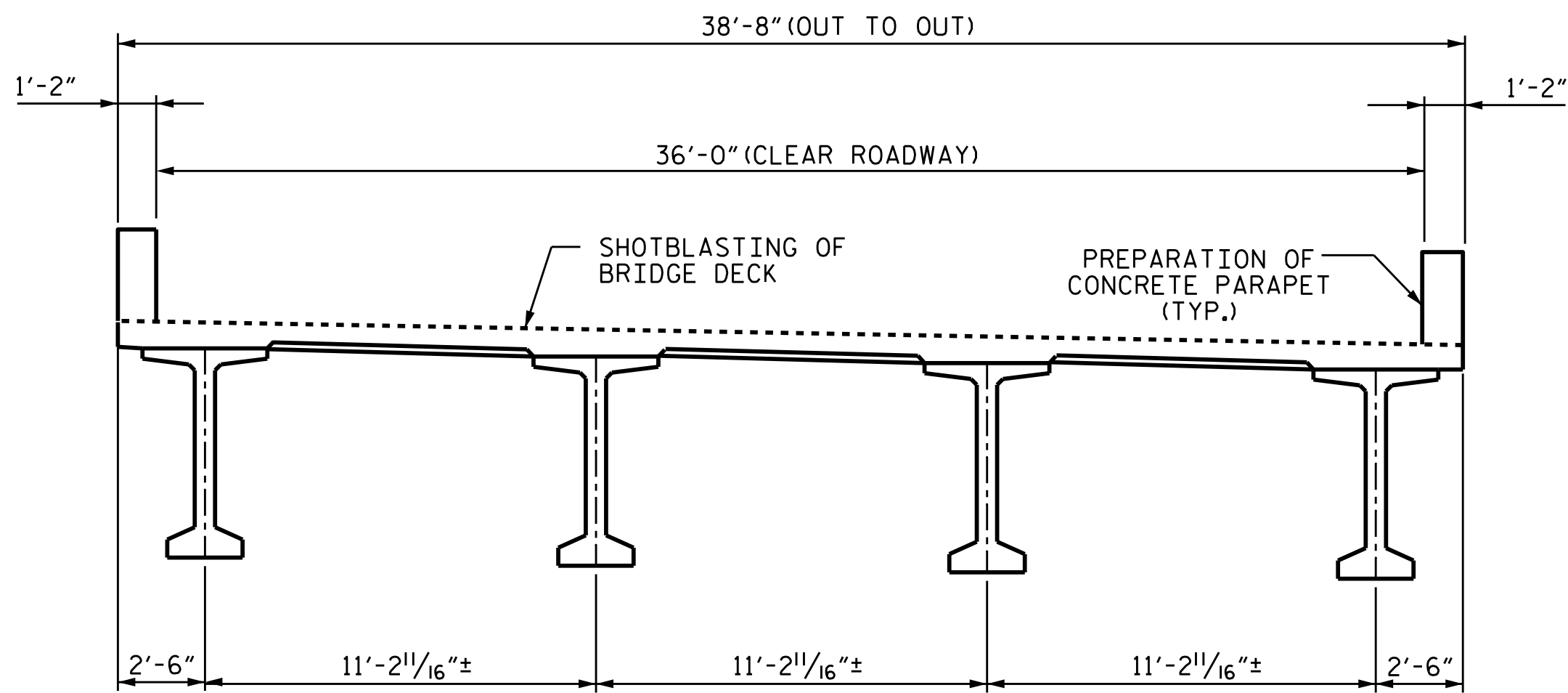
TYPICAL SECTION

EXISTING (SOUTHBOUND)
(SPANS 113-120)



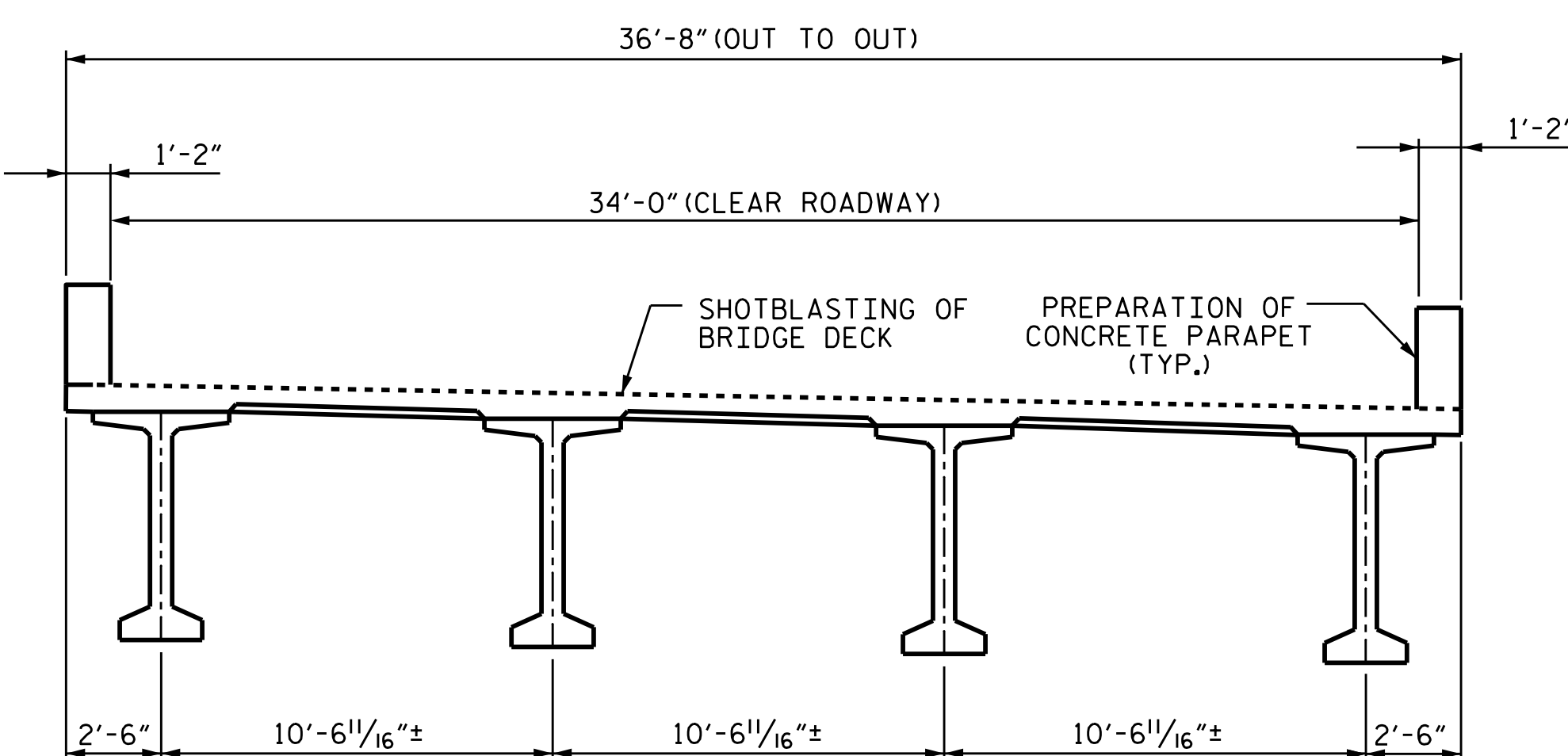
TYPICAL SECTION

EXISTING (NORTHBOUND)
(SPANS 113-126)



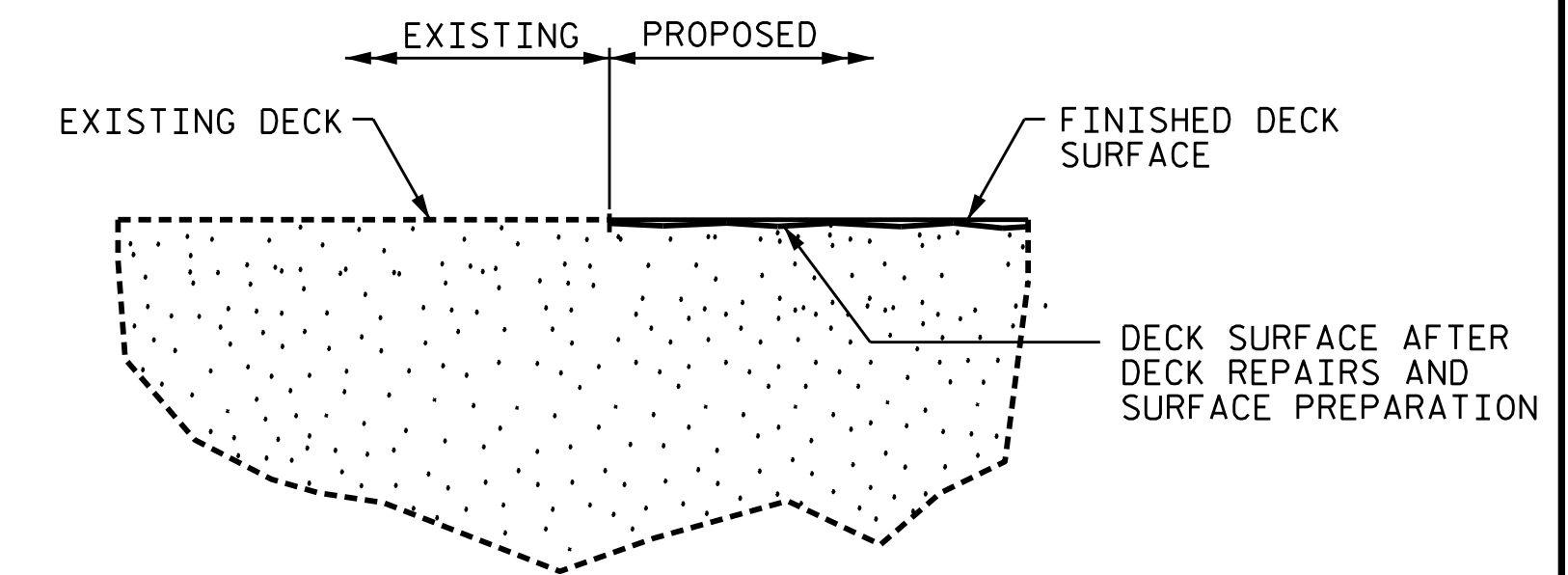
TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)
(SPANS 113-120)

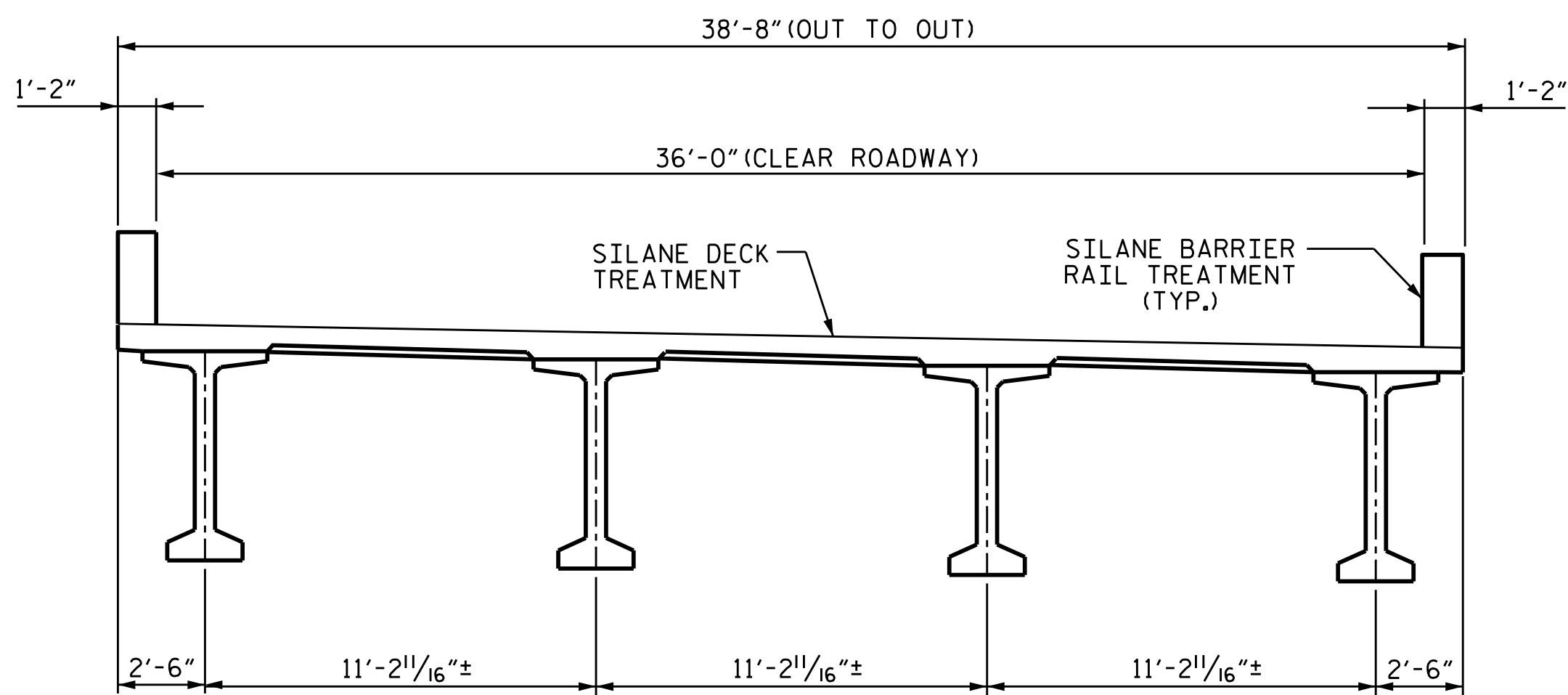


TYPICAL SECTION

INTERMEDIATE (NORTHBOUND)
(SPANS 113-126)

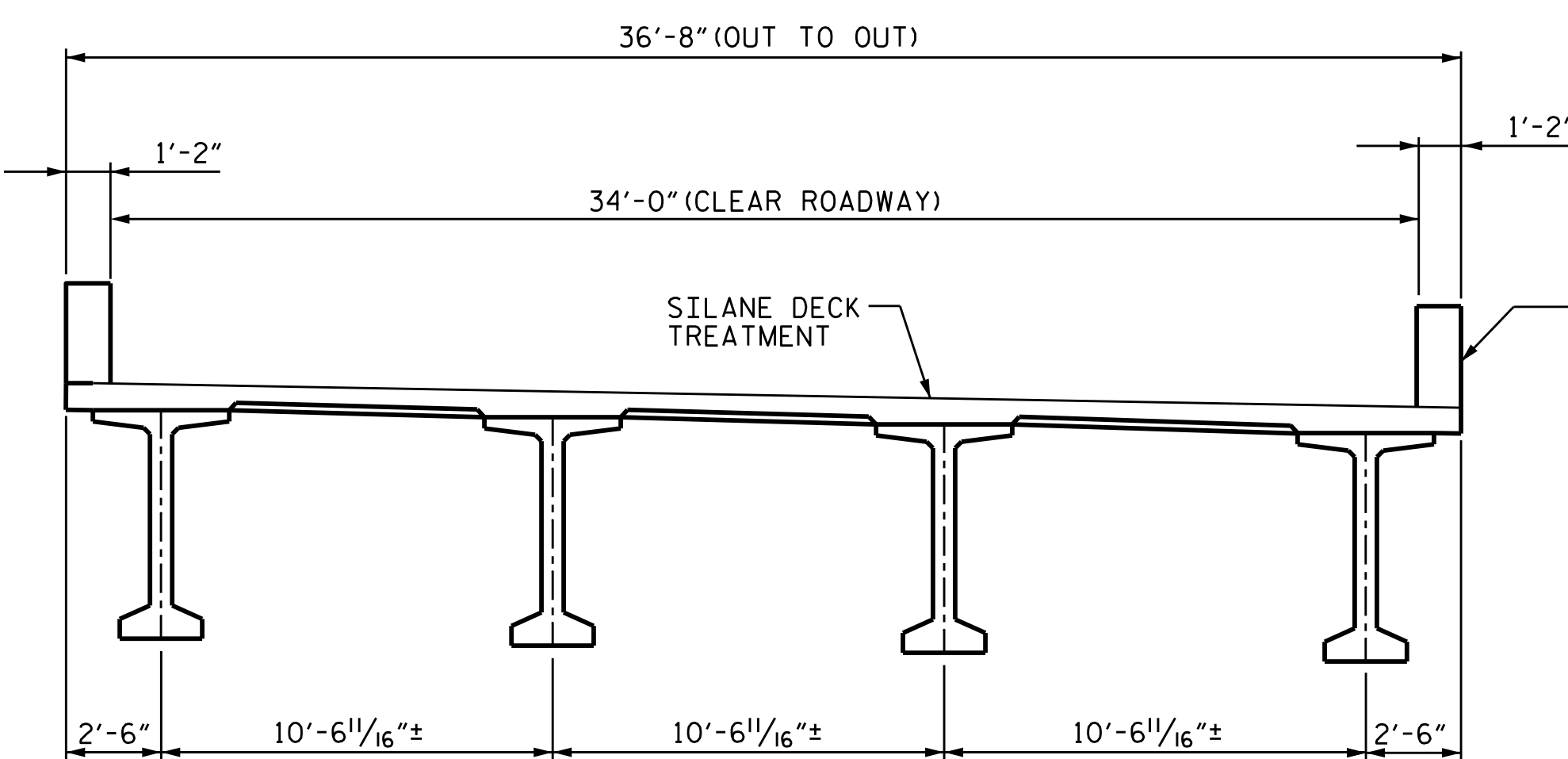


DETAIL FOR SILANE DECK TREATMENT



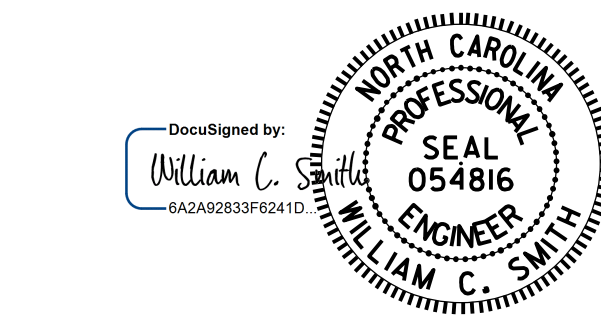
TYPICAL SECTION

PROPOSED (SOUTHBOUND)
(SPANS 113-120)



TYPICAL SECTION

PROPOSED (NORTHBOUND)
(SPANS 113-126)



11/21/2025

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 8 OF 13

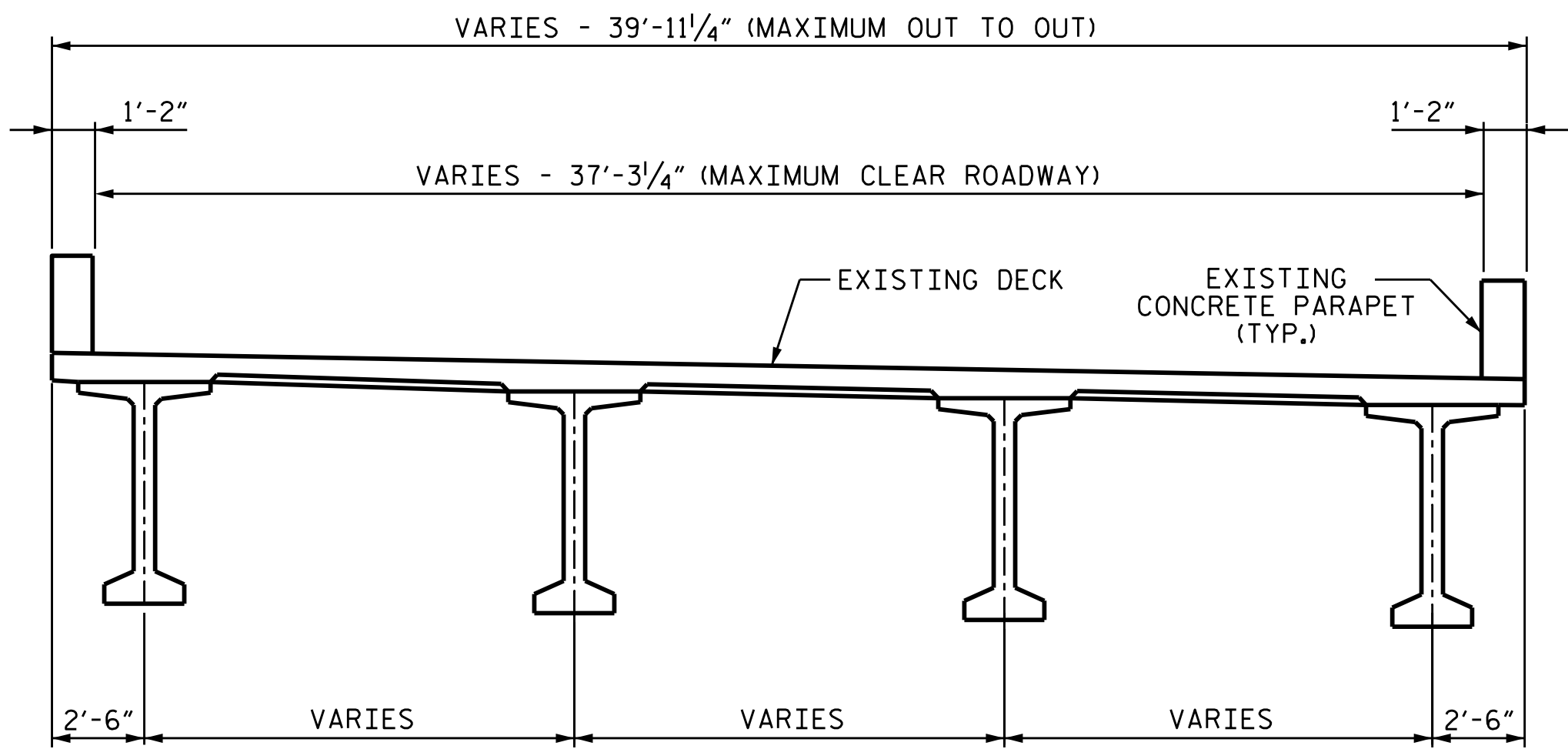
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION
DETAILS
SOUTHBOUND NORTHBOUND
(SPANS 113-120) (SPANS 113-126)

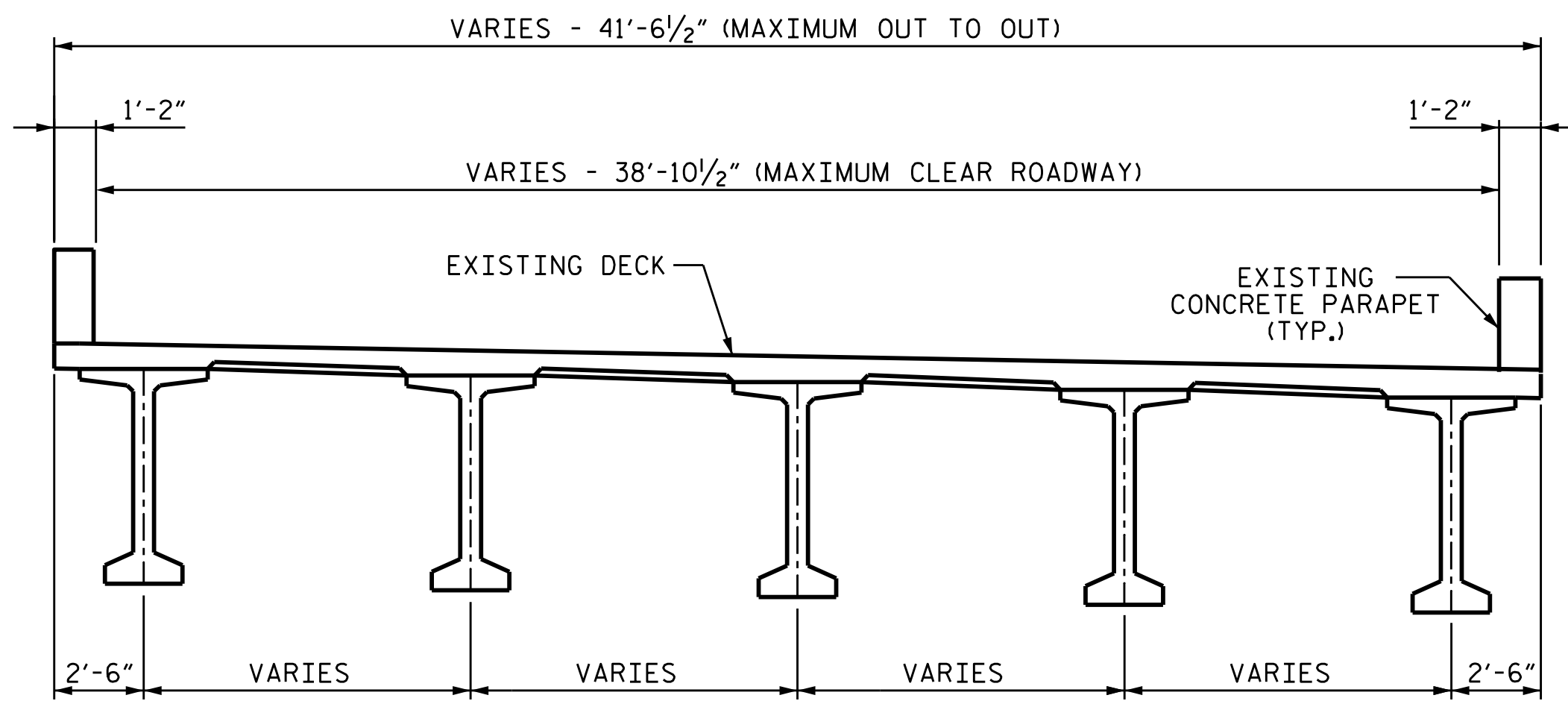
DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

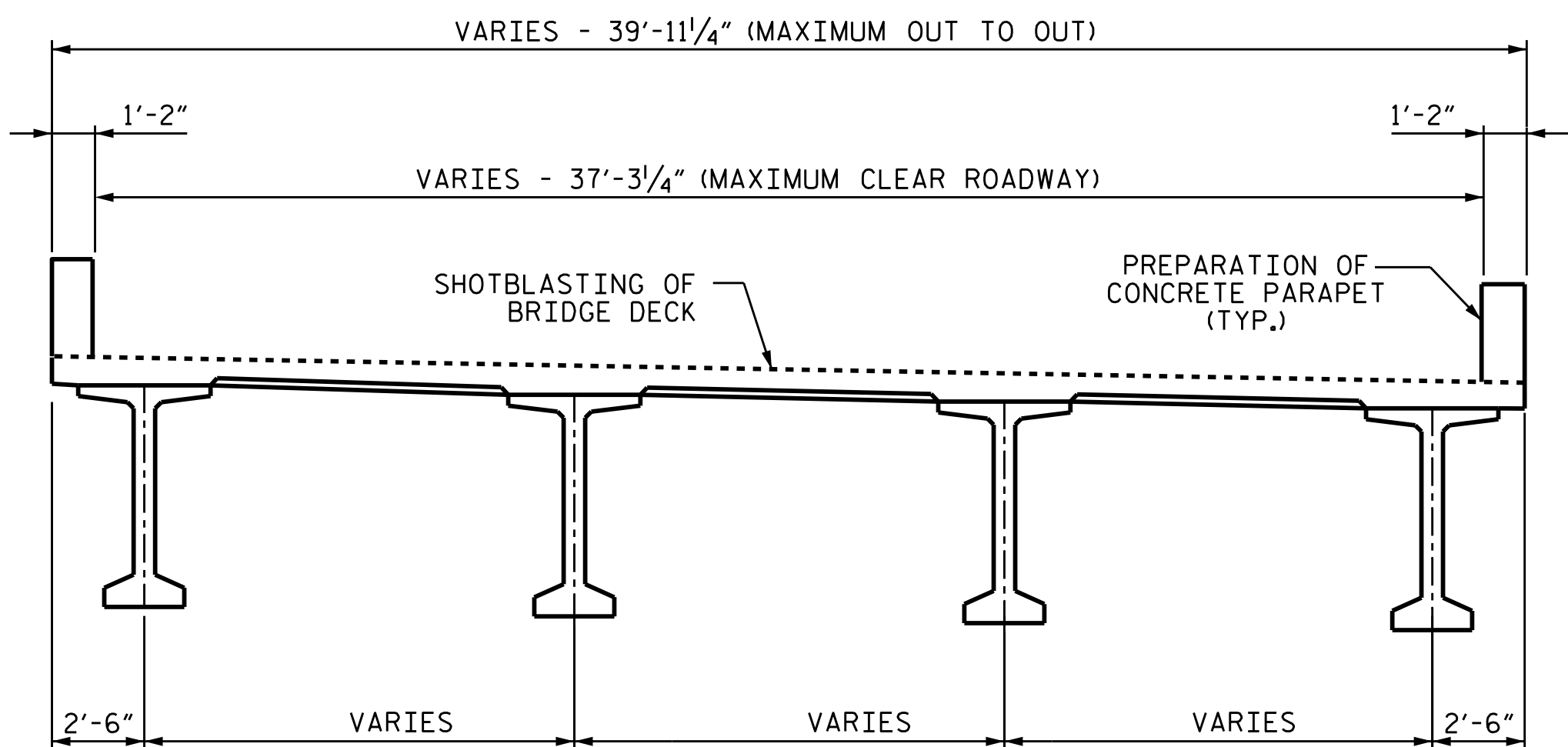
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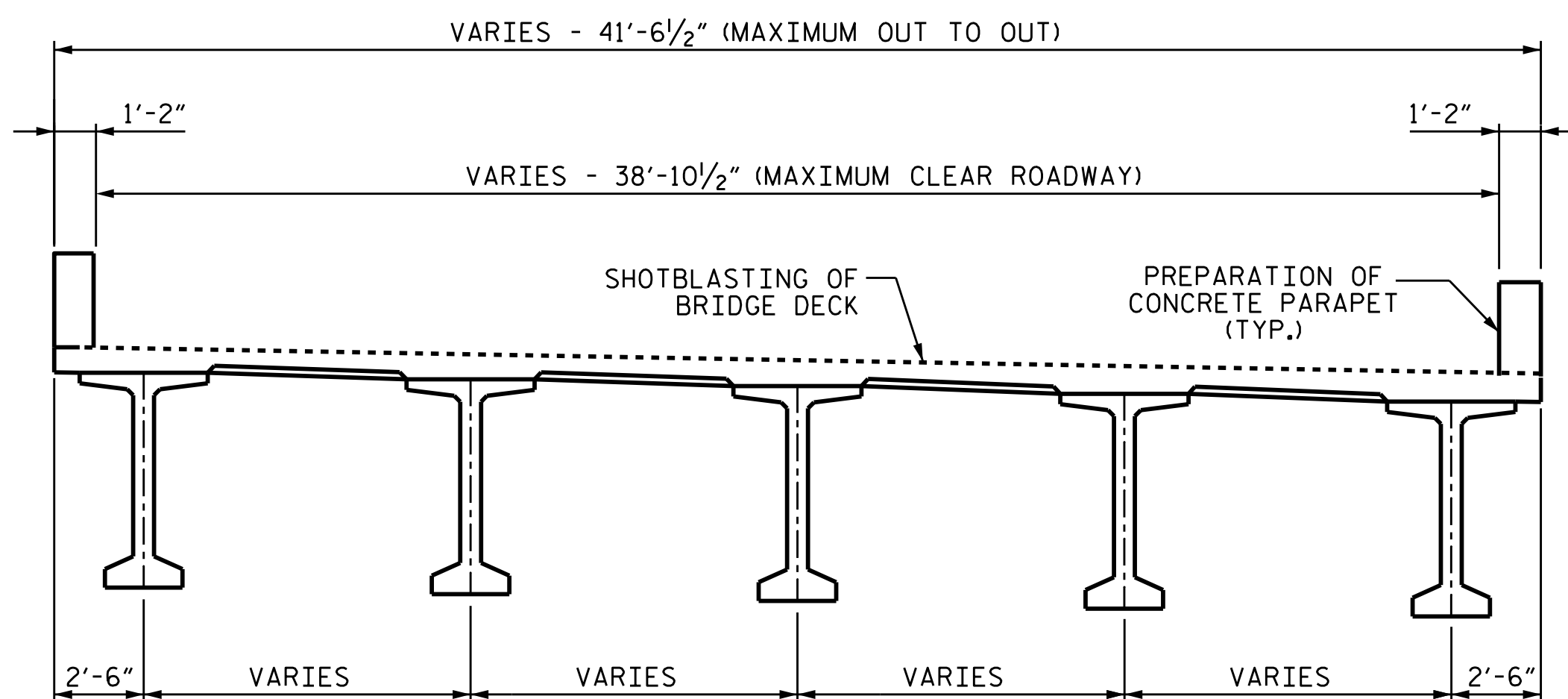
TYPICAL SECTION
EXISTING (SOUTHBOUND)
(SPAN 121)



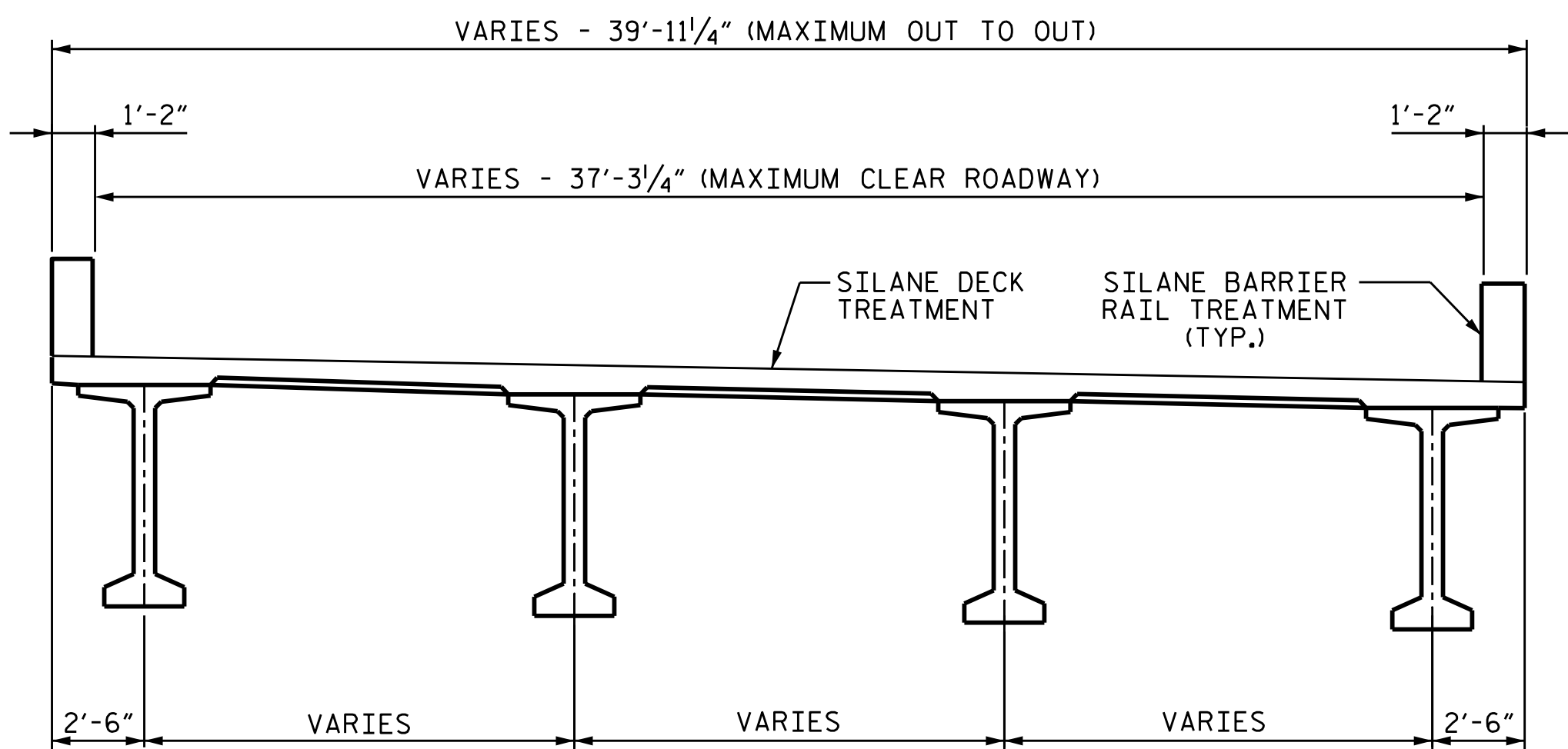
TYPICAL SECTION
EXISTING (NORTHBOUND)
(SPAN 127)



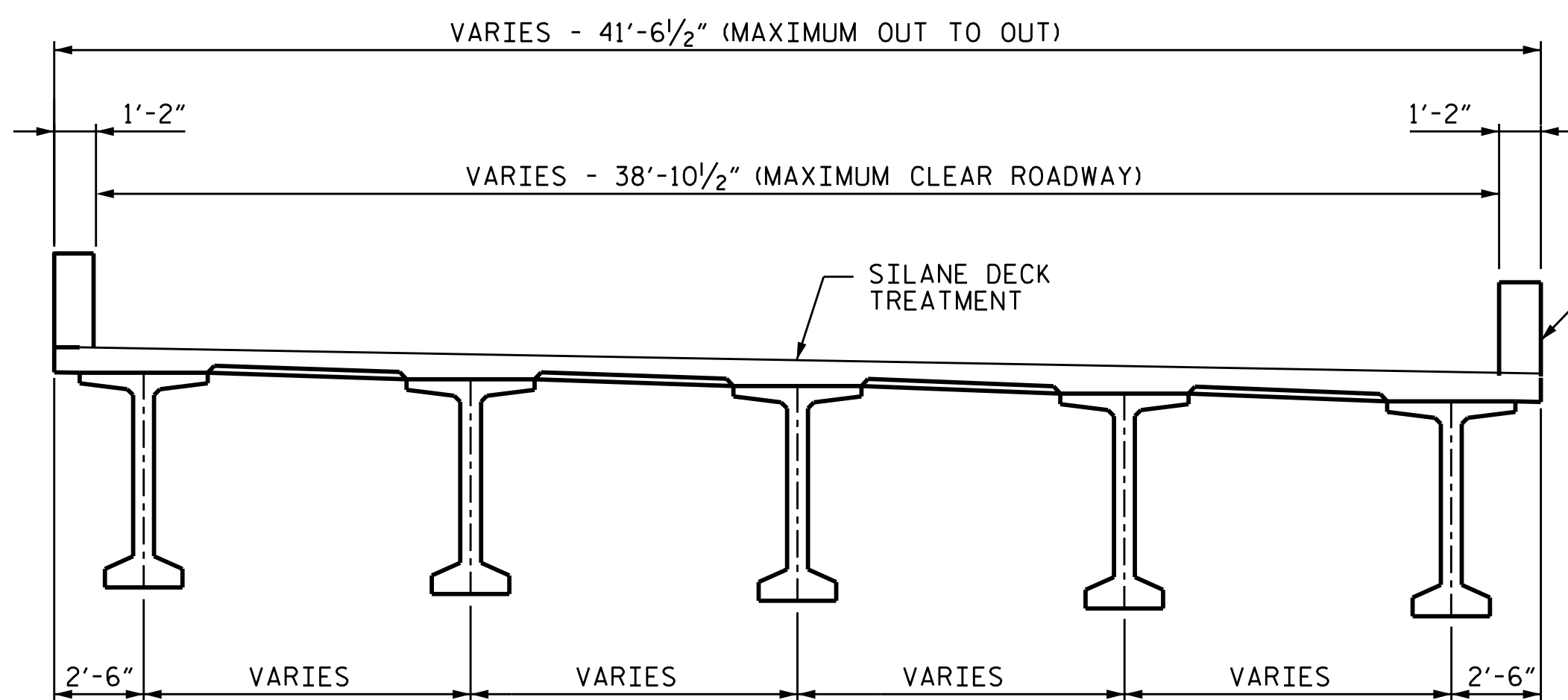
TYPICAL SECTION
INTERMEDIATE (SOUTHBOUND)
(SPAN 121)



TYPICAL SECTION
INTERMEDIATE (NORTHBOUND)
(SPAN 127)



TYPICAL SECTION
PROPOSED (SOUTHBOUND)
(SPAN 121)

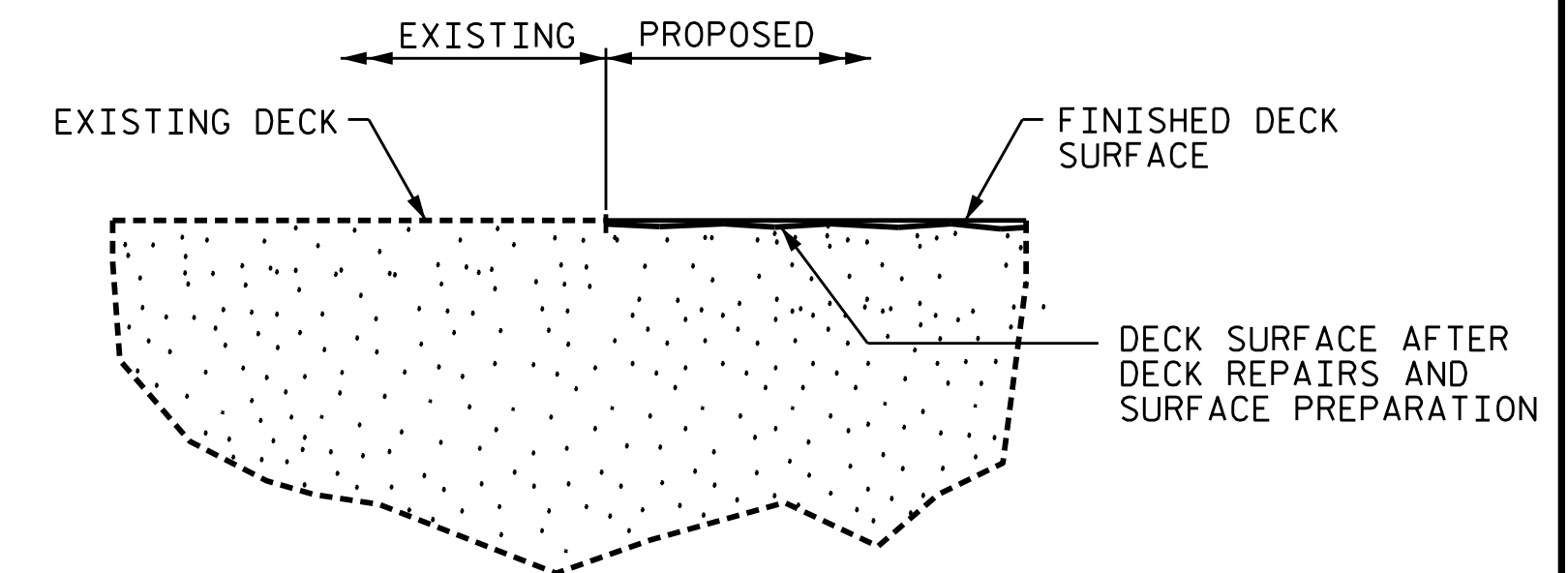


TYPICAL SECTION
PROPOSED (NORTHBOUND)
(SPAN 127)

NOTES

GIRDERS ARE 72" BULB TEES.

FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT,
SEE SHEET S-213.

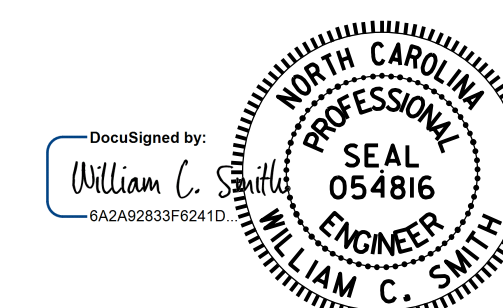


DETAIL FOR
SILANE DECK TREATMENT

SILANE BARRIER
RAIL TREATMENT
(TYP.)

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 9 OF 13



11/21/2025

DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

11/20/2025
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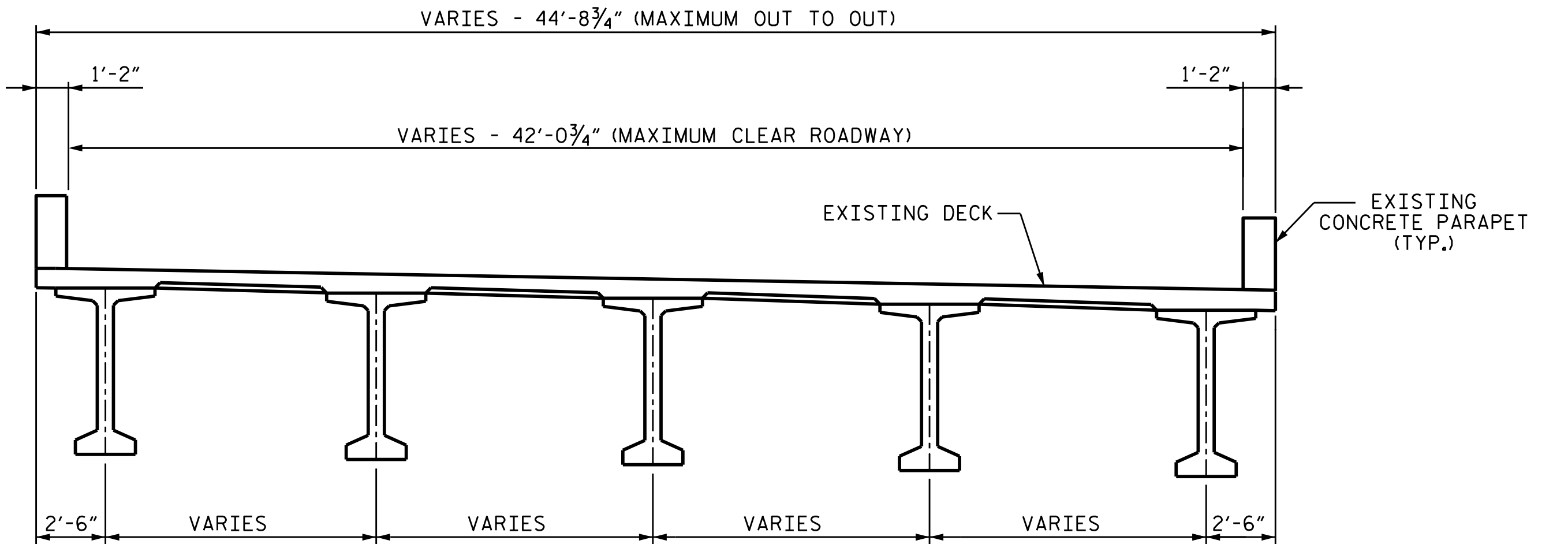
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-23
1			3			TOTAL SHEETS
2			4			217

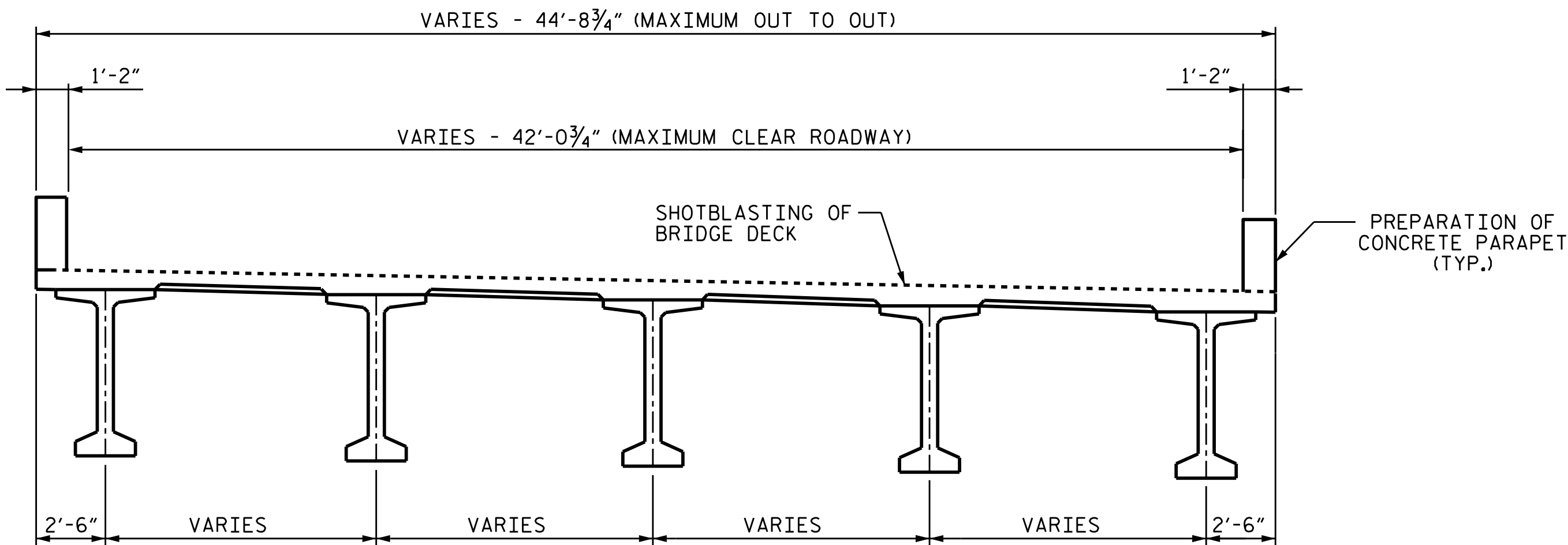
NOTES

GIRDERS ARE 72" BULB TEES.

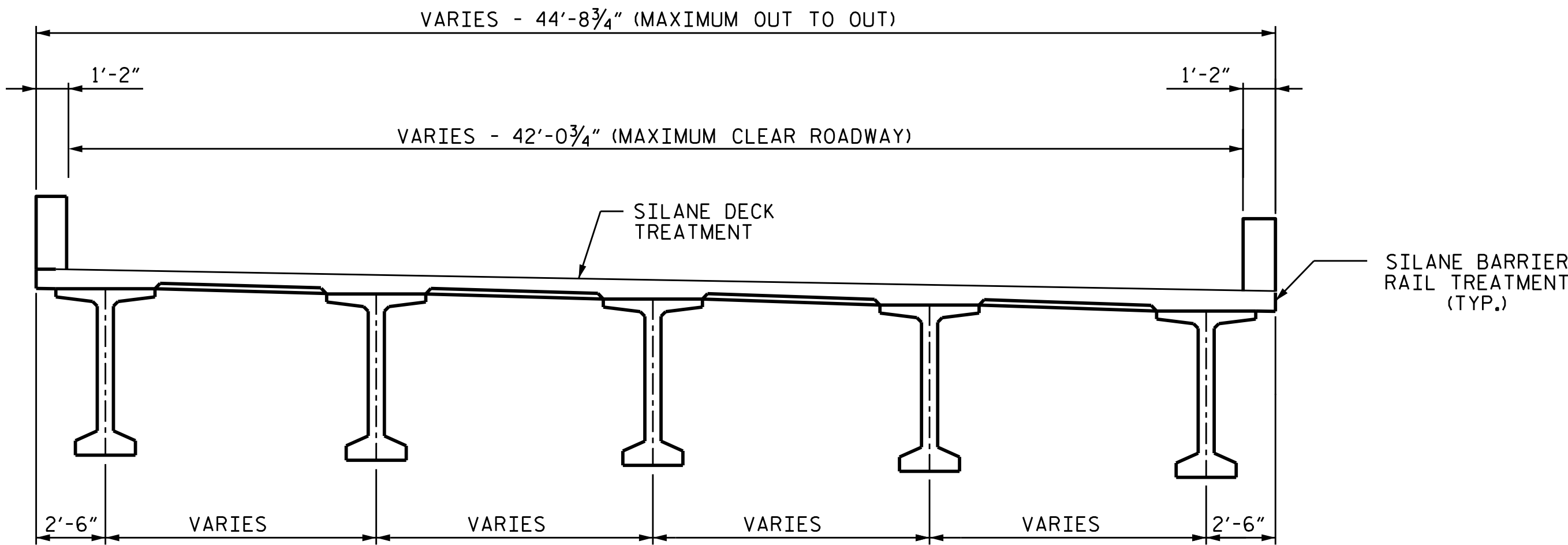
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



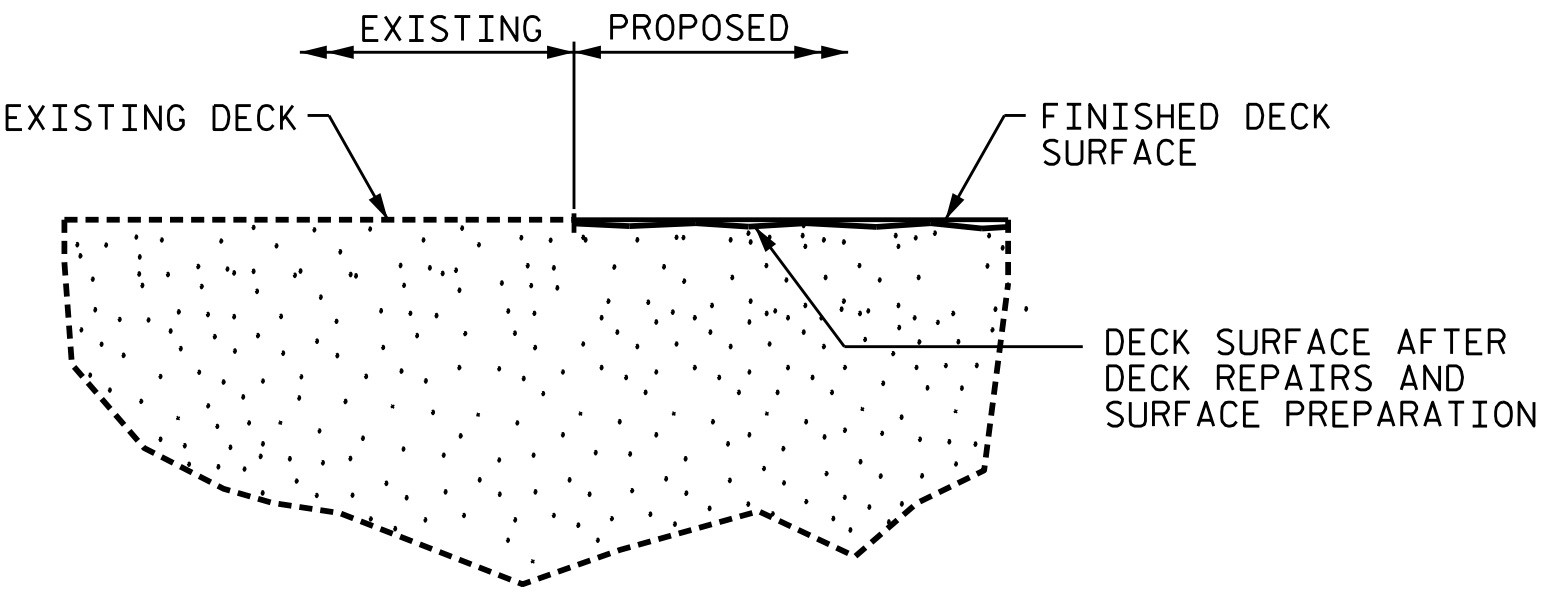
TYPICAL SECTION
EXISTING (SOUTHBOUND)



TYPICAL SECTION
INTERMEDIATE (SOUTHBOUND)



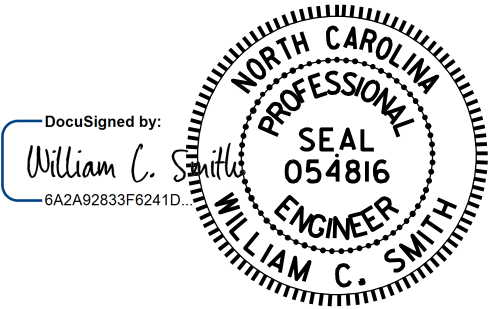
TYPICAL SECTION
PROPOSED (SOUTHBOUND)



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 10 OF 13

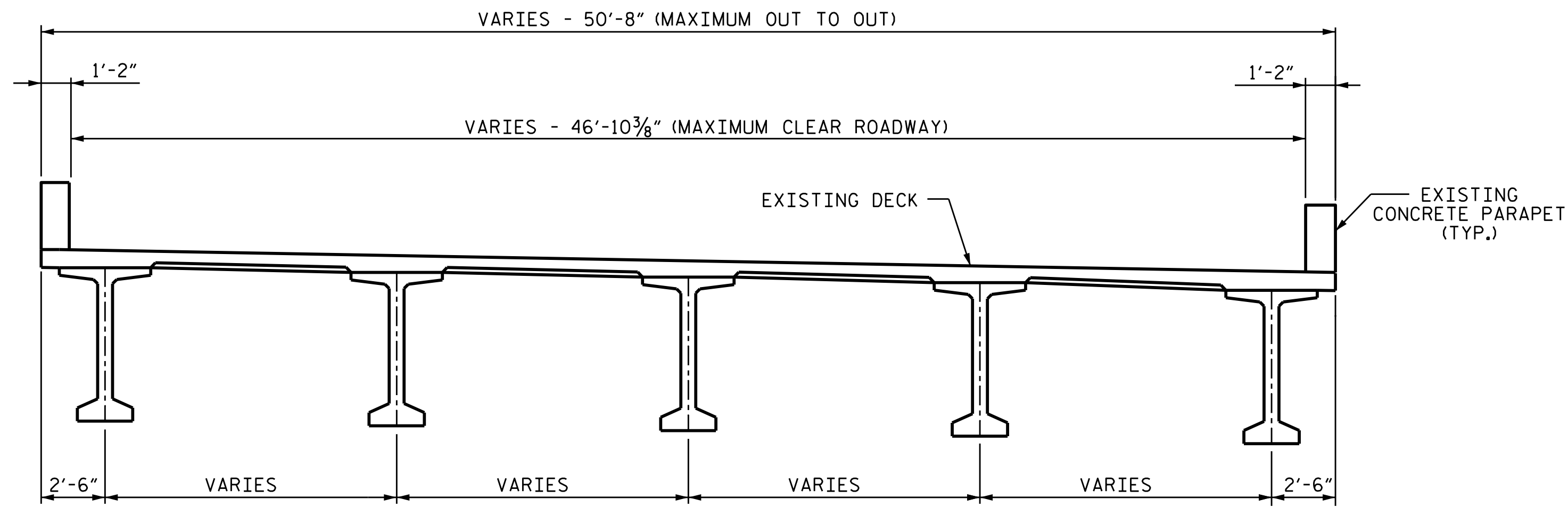


11/21/2025

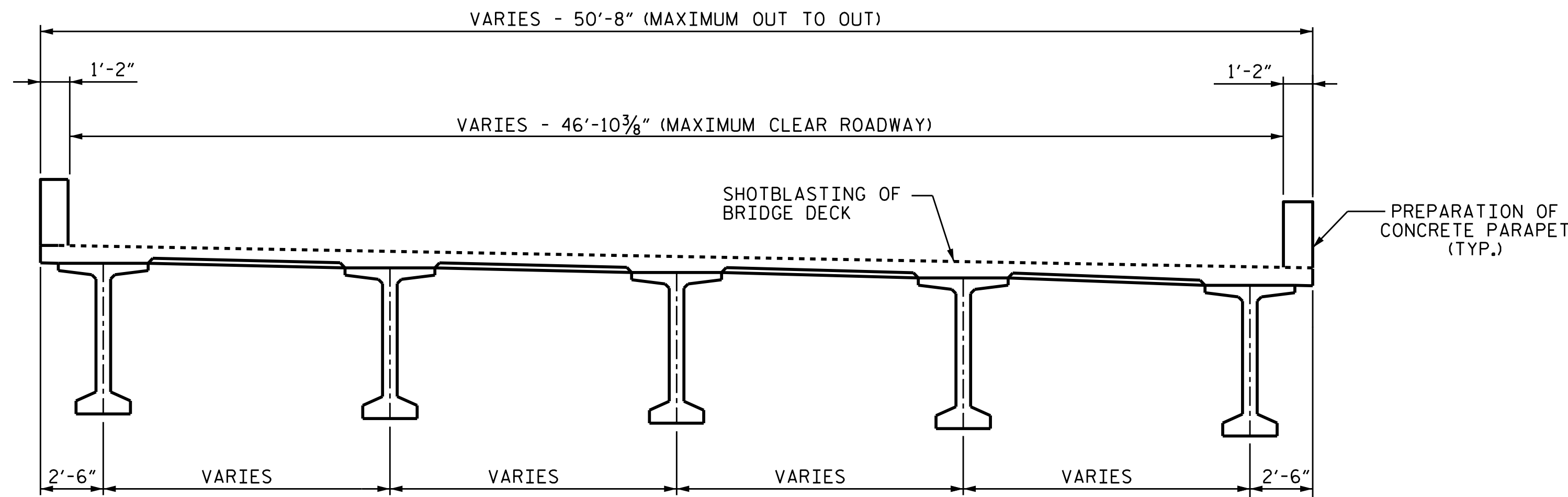
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO.	
TYPICAL SECTION DETAILS SOUTHBOUND (SPAN 122)						S-24	
REVISIONS						TOTAL SHEETS	
NO.	BY:	DATE:	NO.	BY:	DATE:	217	
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DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

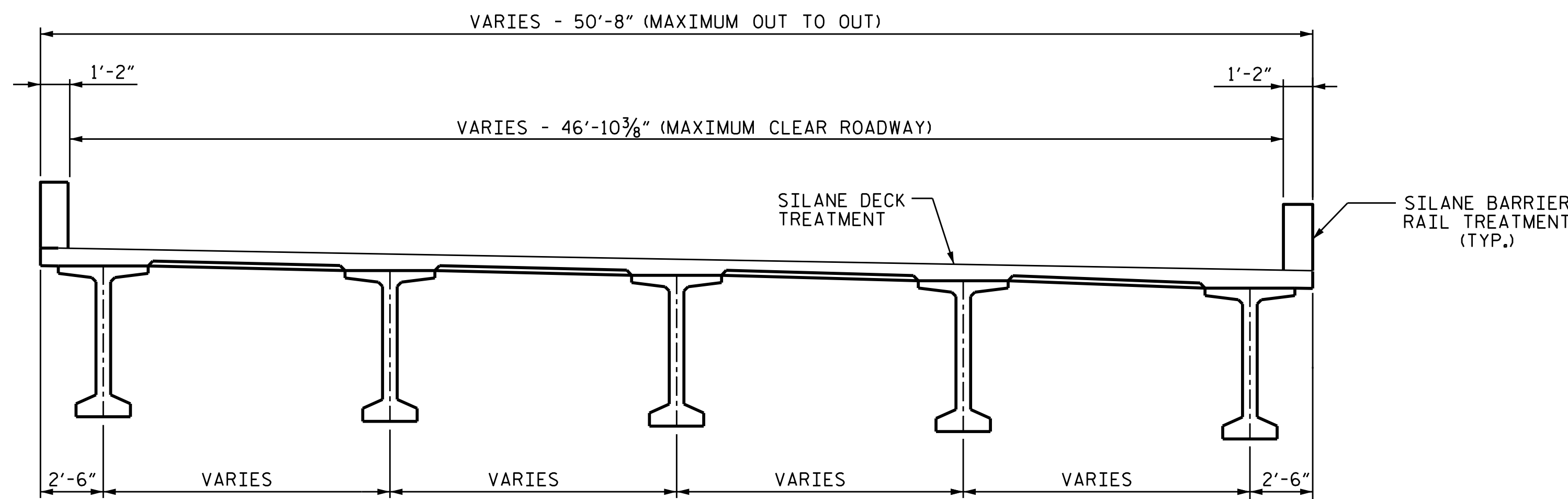
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SIGNATURES COMPLETED



TYPICAL SECTION
EXISTING (SOUTHBOUND)



TYPICAL SECTION
INTERMEDIATE (SOUTHBOUND)

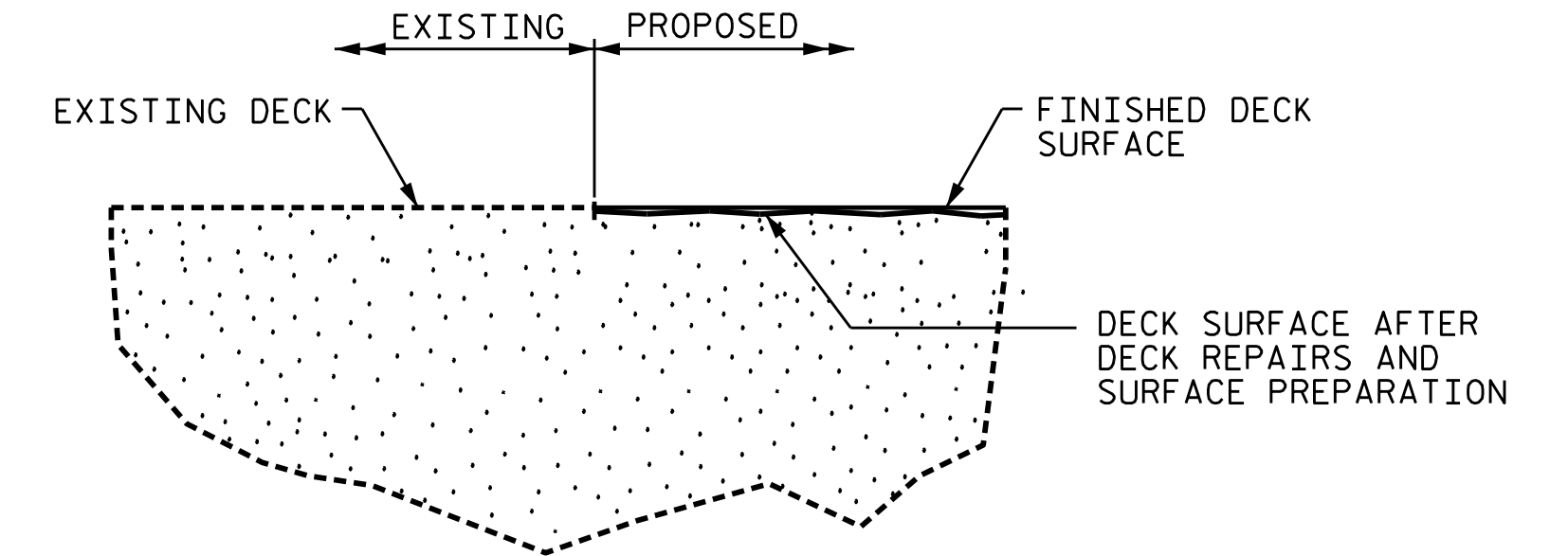


TYPICAL SECTION
PROPOSED (SOUTHBOUND)

NOTES

GIRDERS ARE 72" BULB TEES.

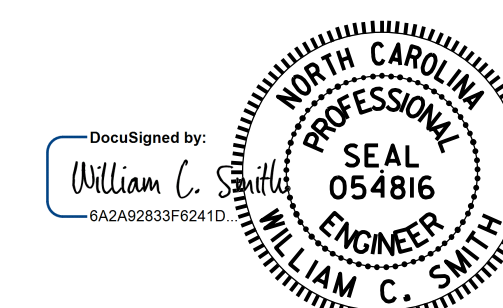
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 11 OF 13



11/21/2025

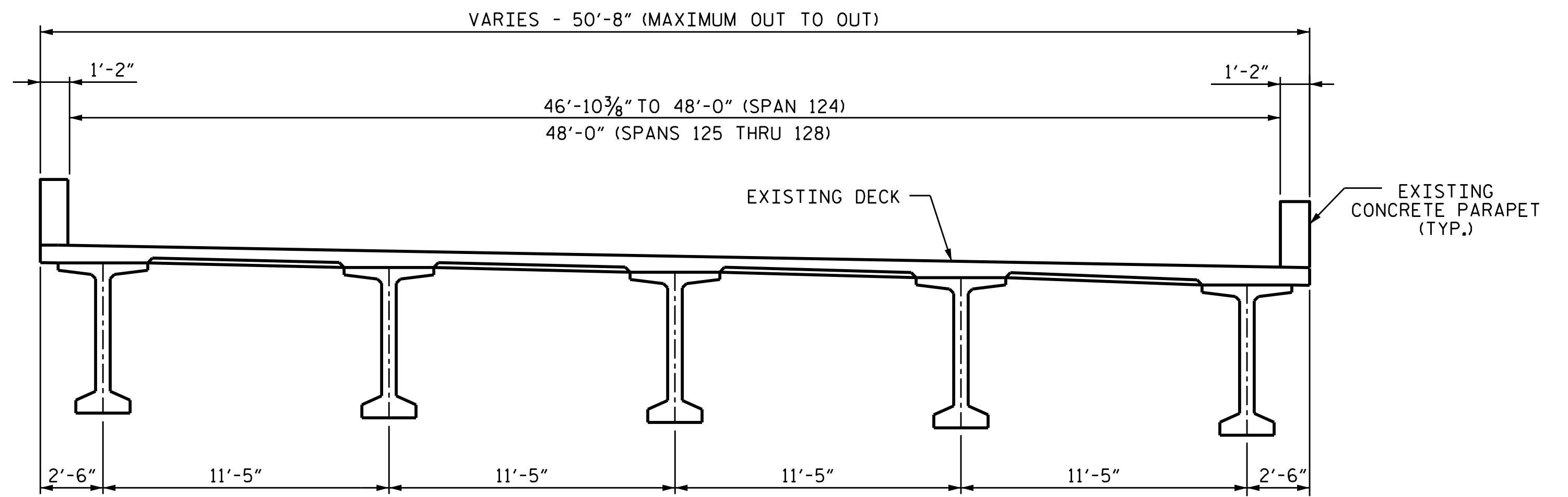
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION
DETAILS
SOUTHBOUND
(SPAN 123)

DRAWN BY : KIM BEARD / S.T.SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

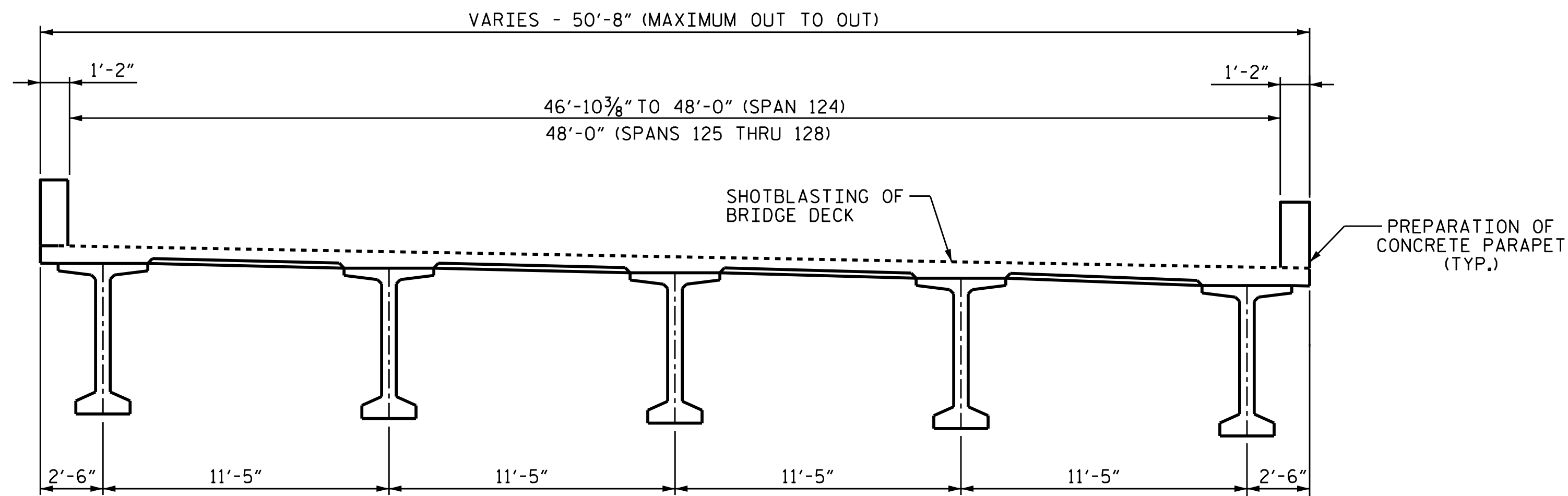
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-25 TOTAL SHEETS 217
2			4			



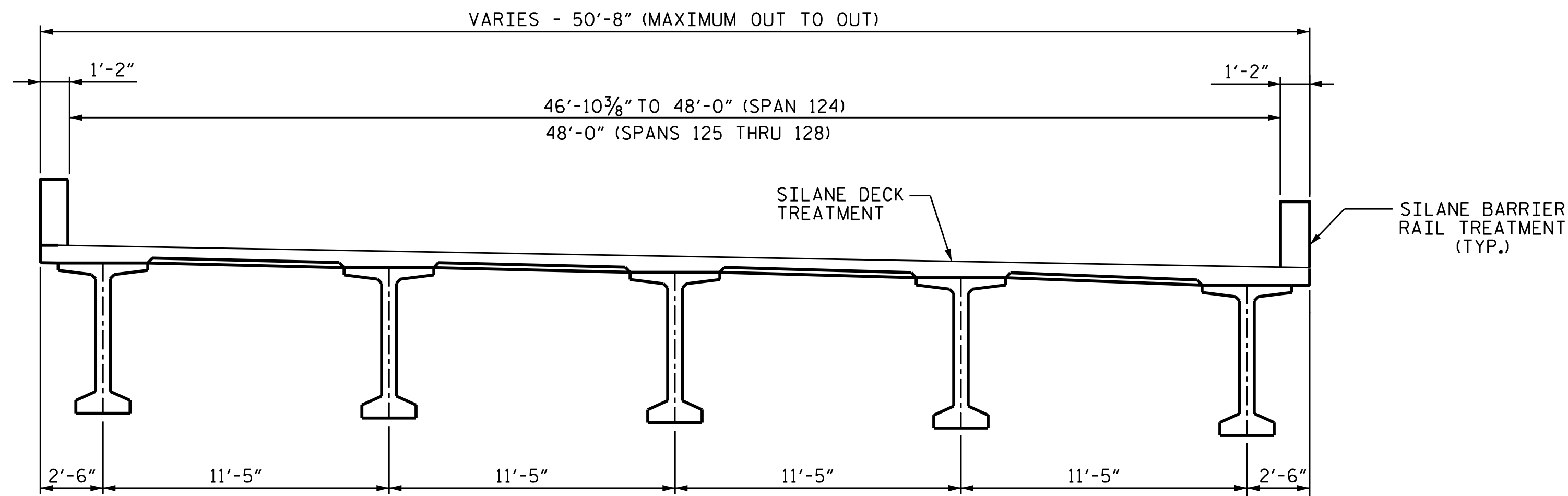
TYPICAL SECTION

EXISTING (SOUTHBOUND)
(SPANS 124-128)



TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)
(SPANS 124-128)



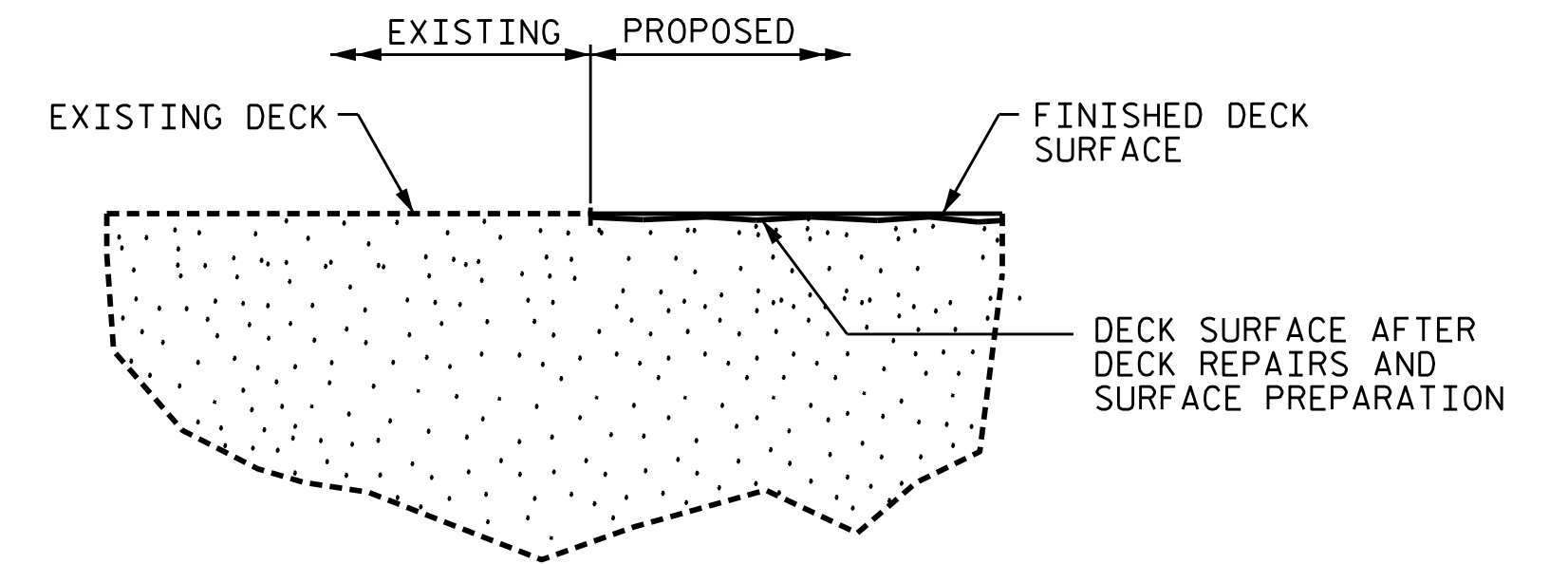
TYPICAL SECTION

PROPOSED (SOUTHBOUND)
(SPANS 124-128)

NOTES

GIRDERS ARE 72" BULB TEES.

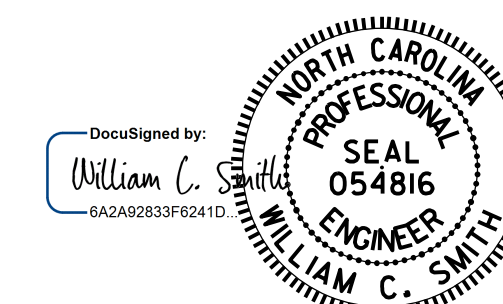
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT,
SEE SHEET S-213.



DETAIL FOR
SILANE DECK TREATMENT

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 12 OF 13



11/21/2025

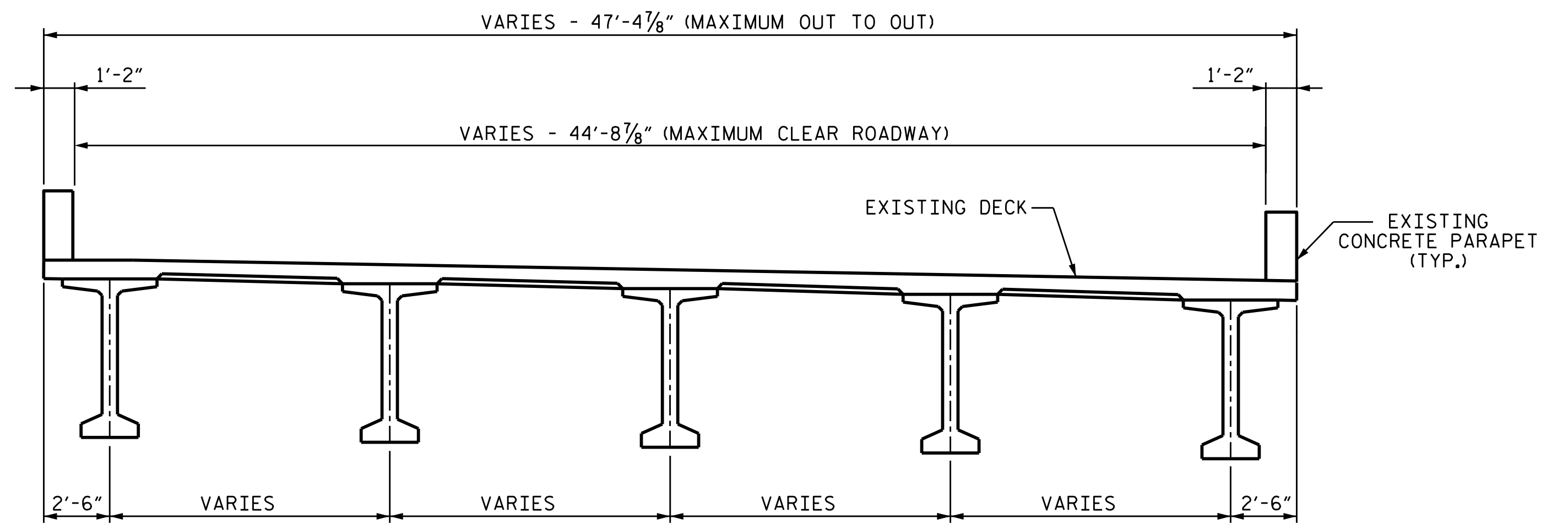
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION
DETAILS
SOUTHBOUND
(SPAN 124-128)

DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
CHECKED BY : W. C. SMITH DATE : 5/1/24

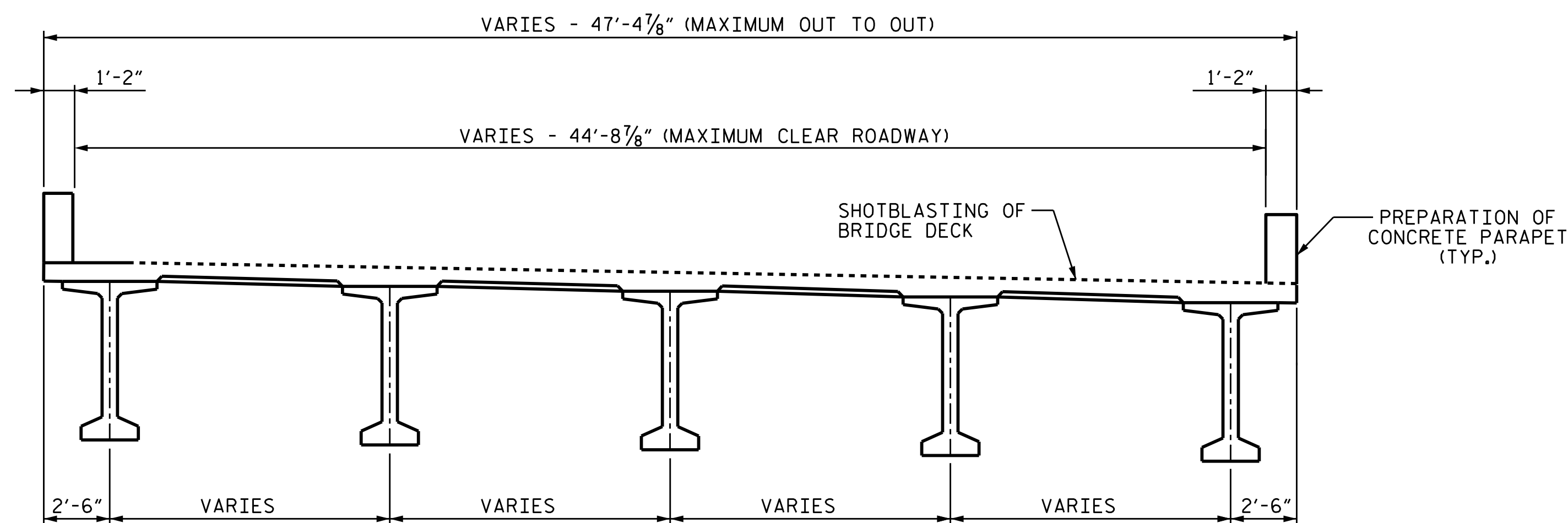
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2			4			217



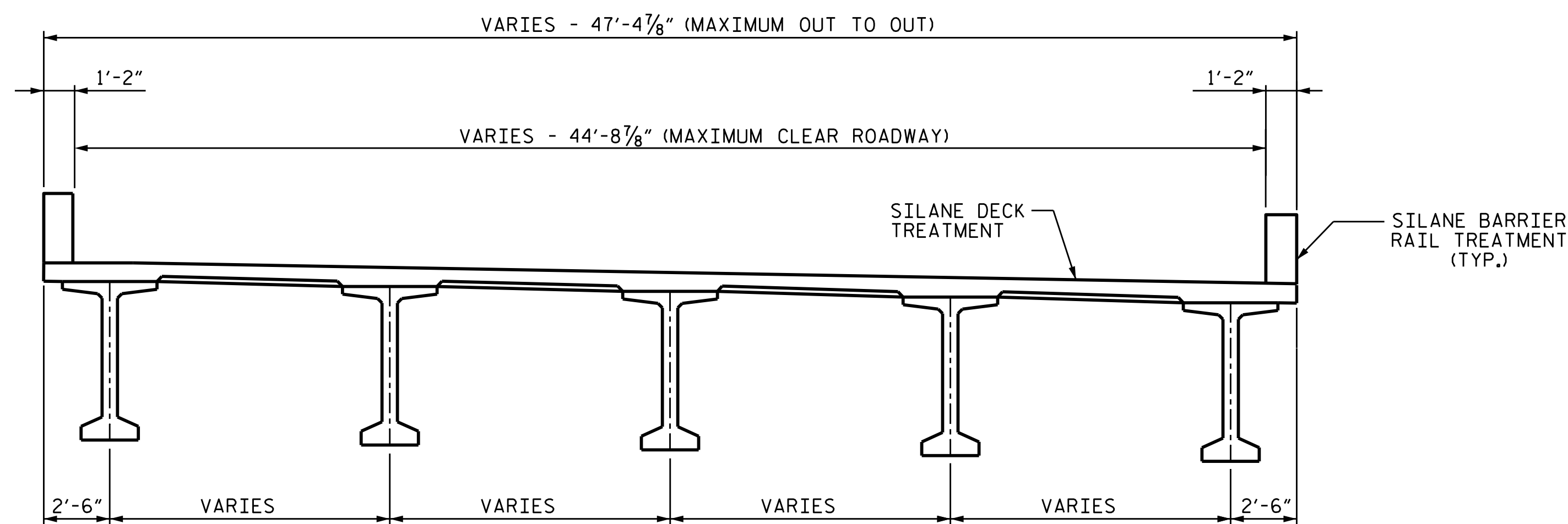
TYPICAL SECTION

EXISTING (NORTHBOUND)
(SPAN 128)



TYPICAL SECTION

INTERMEDIATE (NORTHBOUND)
(SPAN 128)



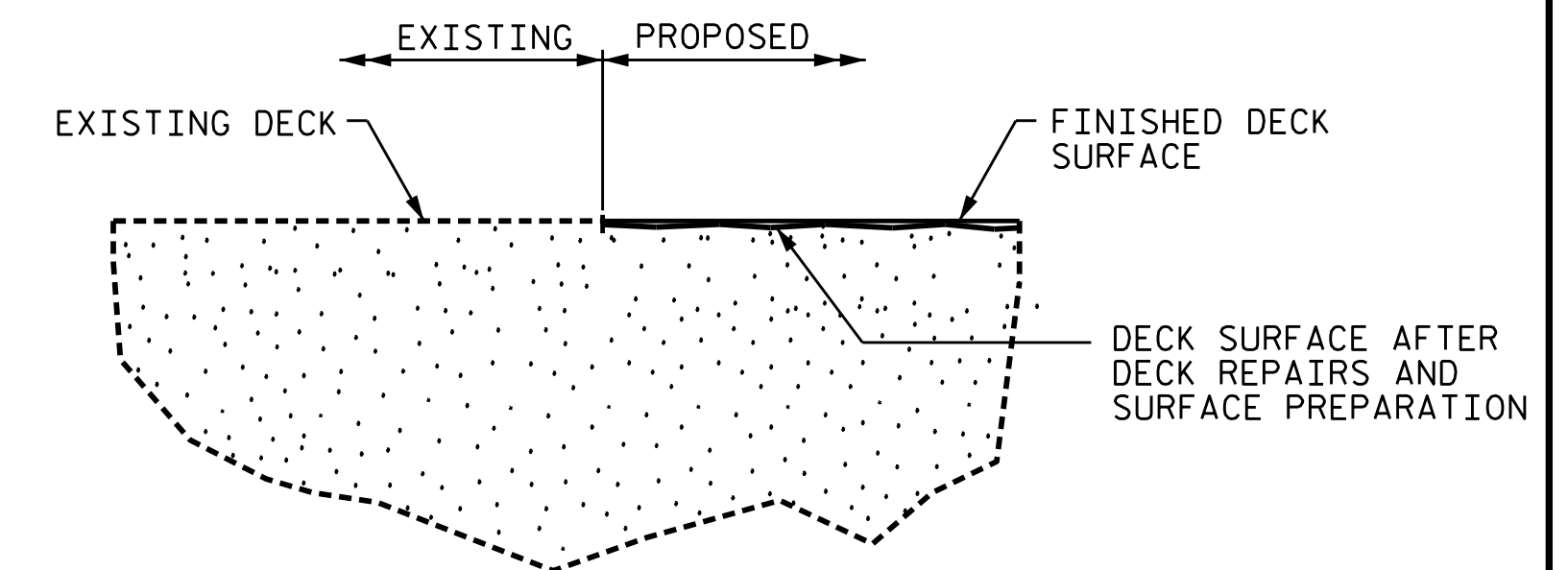
TYPICAL SECTION

PROPOSED (NORTHBOUND)
(SPAN 128)

NOTES

GIRDERS ARE 72" BULB TEES.

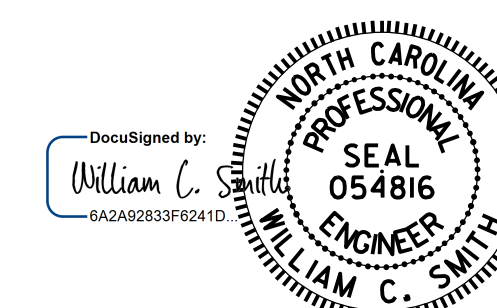
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT,
SEE SHEET S-213.



**DETAIL FOR
SILANE DECK TREATMENT**

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 13 OF 13



11/21/2025

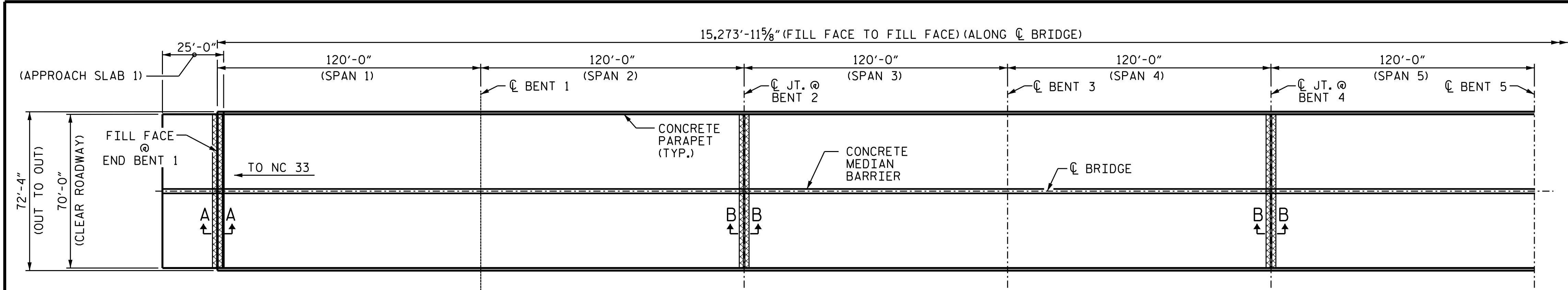
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**TYPICAL SECTION
DETAILS
NORTHBOUND
(SPAN 128)**

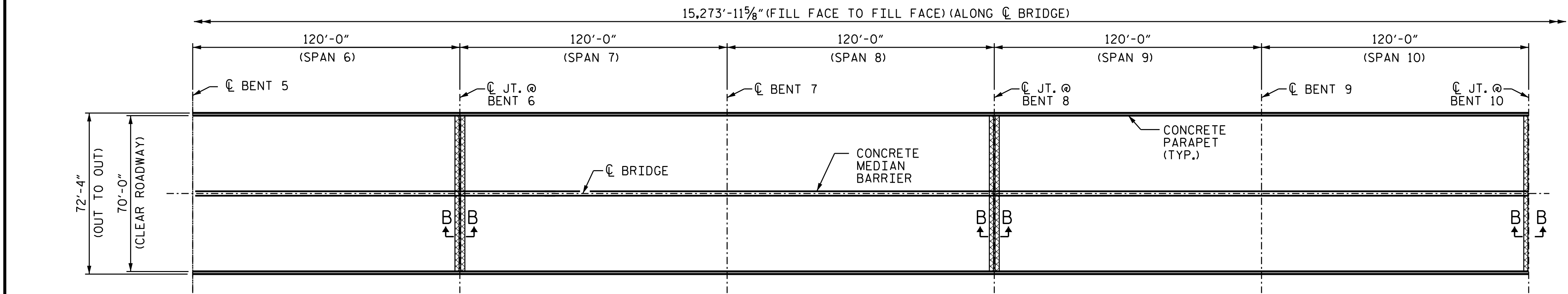
DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
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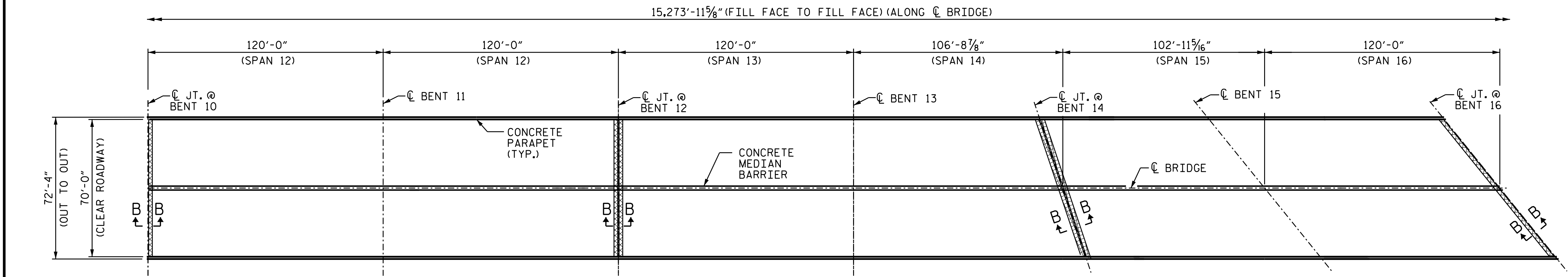
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-27
1			3			TOTAL SHEETS
2			4			217



PLAN



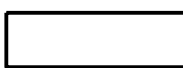
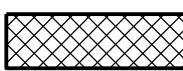
PLAN



PLAN

REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 1 THRU 16		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	14,270.0 SQ. YDS.	
SILANE DECK TREATMENT	14,270.0 SQ. YDS.	
BRIDGE JOINT DEMOLITION	557.8 SQ. FT.	
APPROACH SLAB		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	188.9 SQ. YDS.	
SILANE DECK TREATMENT	188.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	34.0 SQ. FT.	

NOTES
FOR SECTION A-A AND B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

-  SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT
-  BRIDGE JOINT DEMOLITION

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 1 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK SURFACE REPAIR
SPANS 1 THRU 16
AND APPROACH SLAB 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-28
1			3			TOTAL SHEETS
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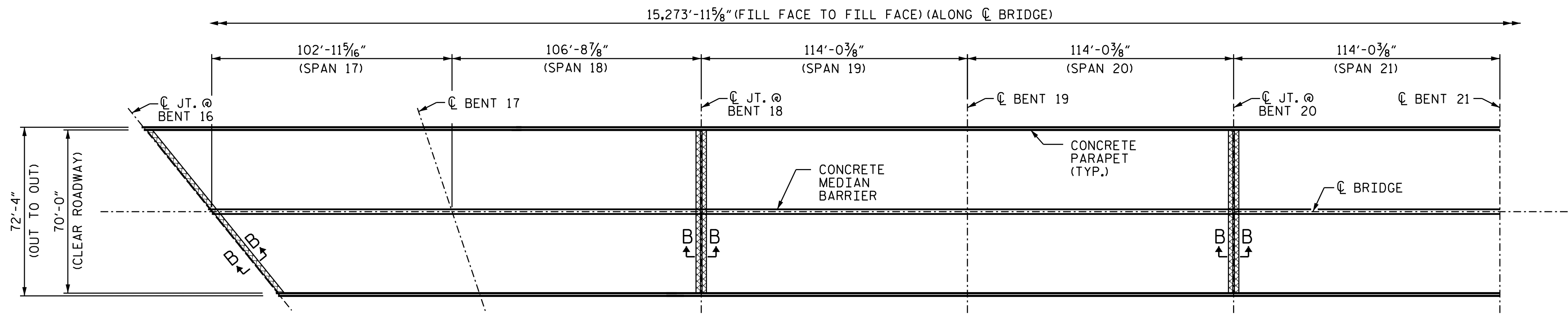
DocuSigned by:
William C. Smith
054816
NORTH CAROLINA
PROFESSIONAL
SEAL
ENGINEER
WILLIAM C. SMITH
11/21/2025

DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

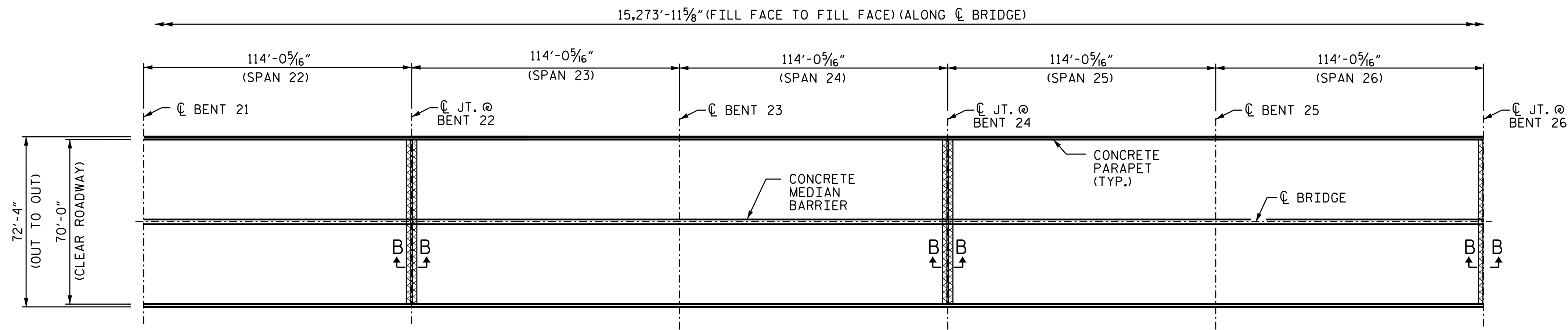
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 17 THRU 31		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	12,957.4 SQ. YDS.	
SILANE DECK TREATMENT	12,957.4 SQ. YDS.	
BRIDGE JOINT DEMOLITION	519.7 SQ. FT.	

NOTES
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

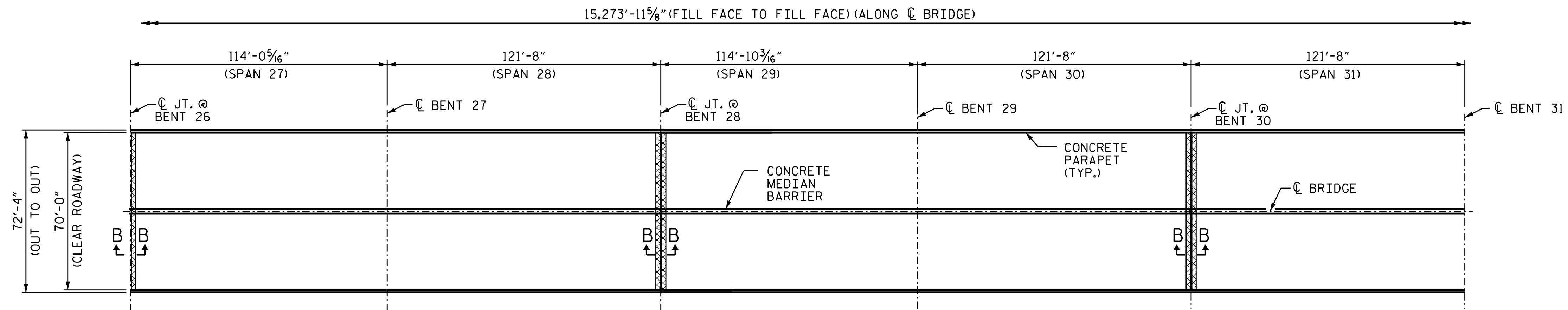


PLAN



PLAN

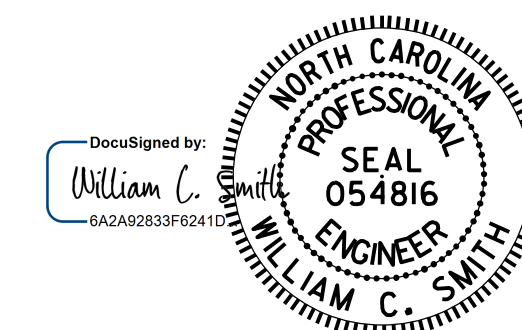
- SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 2 OF 9



11/21/2025

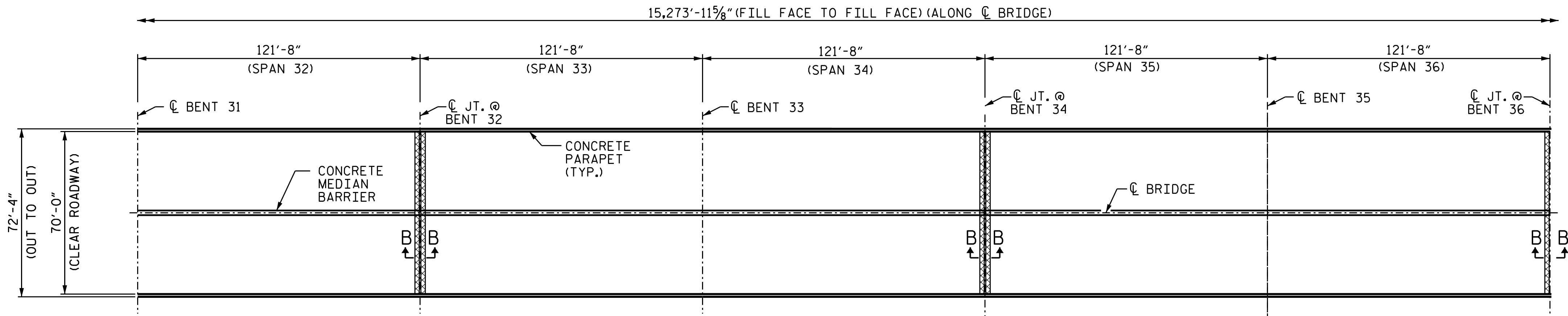
DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

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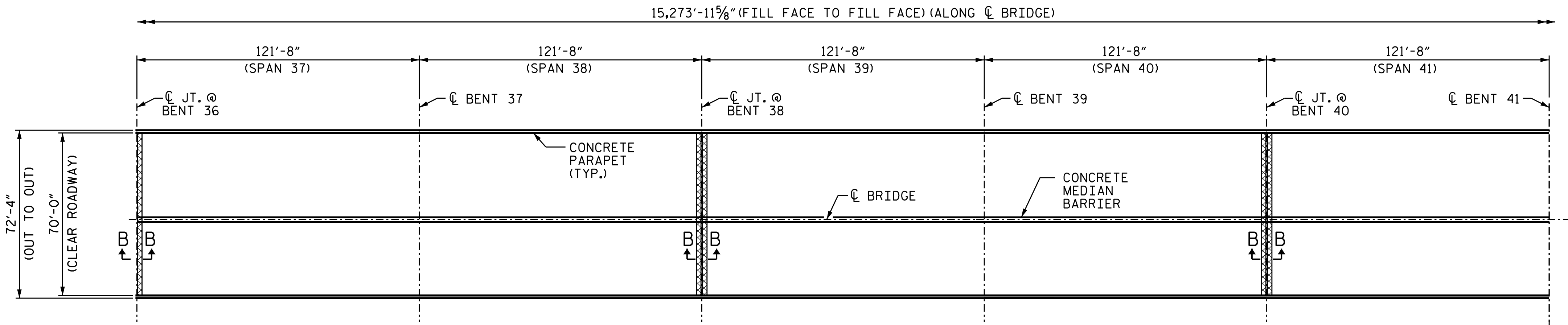
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NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-29
2			4			217

REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 32 THRU 46		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,788.9 SQ. YDS.	
SILANE DECK TREATMENT	13,788.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	510.0 SQ. FT.	

NOTES
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

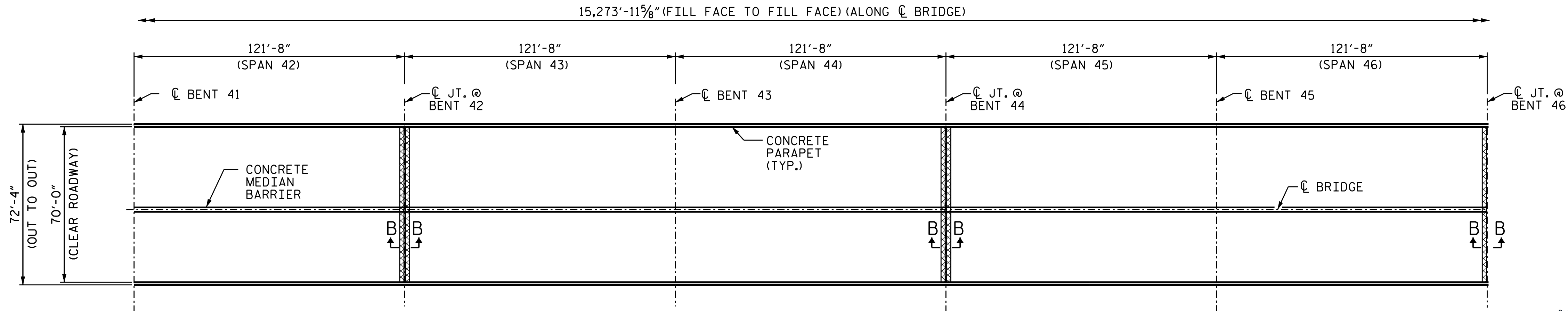


PLAN



PLAN

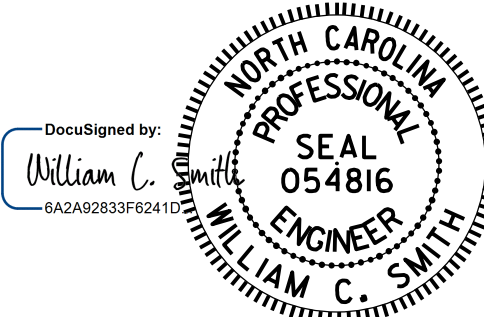
- SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 3 OF 9



11/21/2025

DRAWN BY : S. T. SANDOR DATE : 6/20/24
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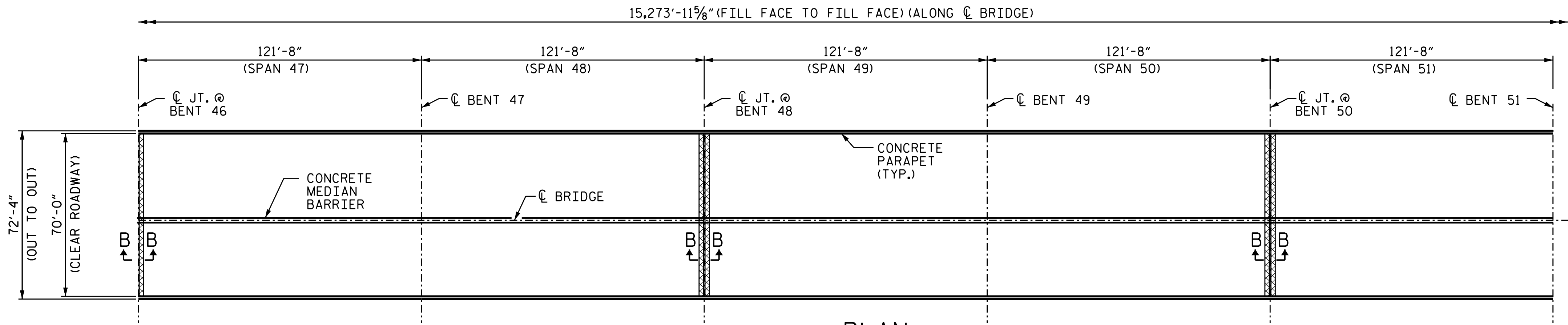
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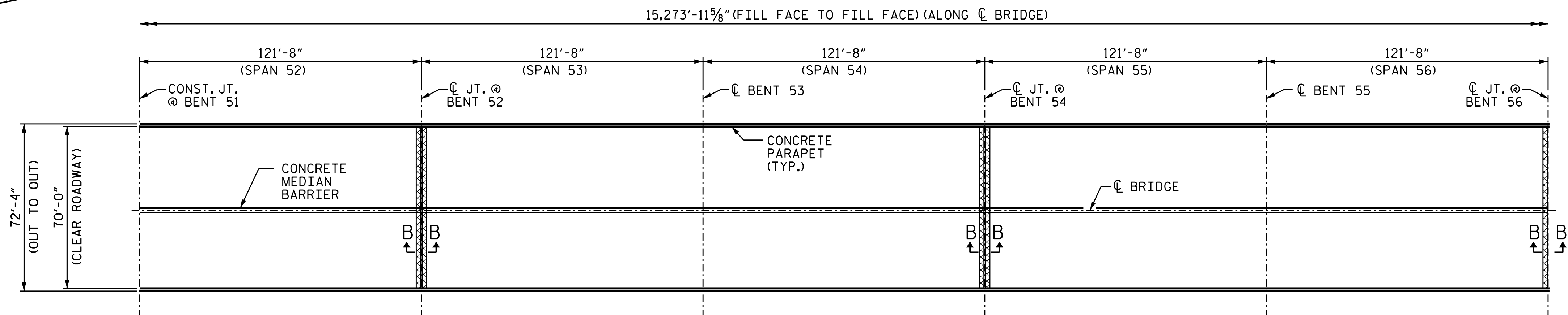
REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 47 THRU 61		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,788.9 SQ. YDS.	
SILANE DECK TREATMENT	13,788.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	510.0 SQ. FT.	

NOTES

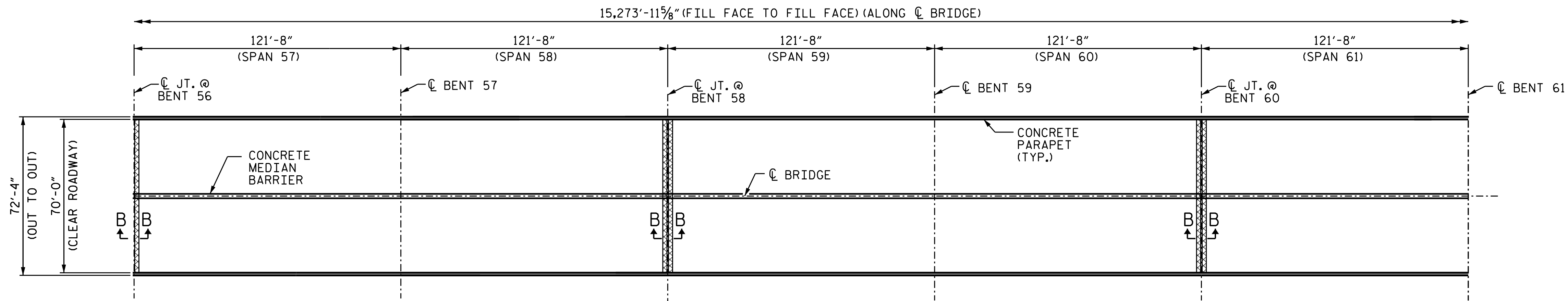
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.



PLAN



PLAN

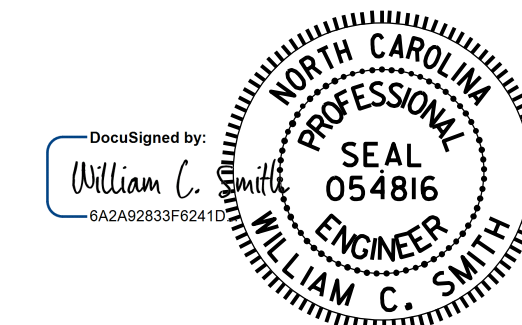


PLAN

- SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 4 OF 9



11/21/2025

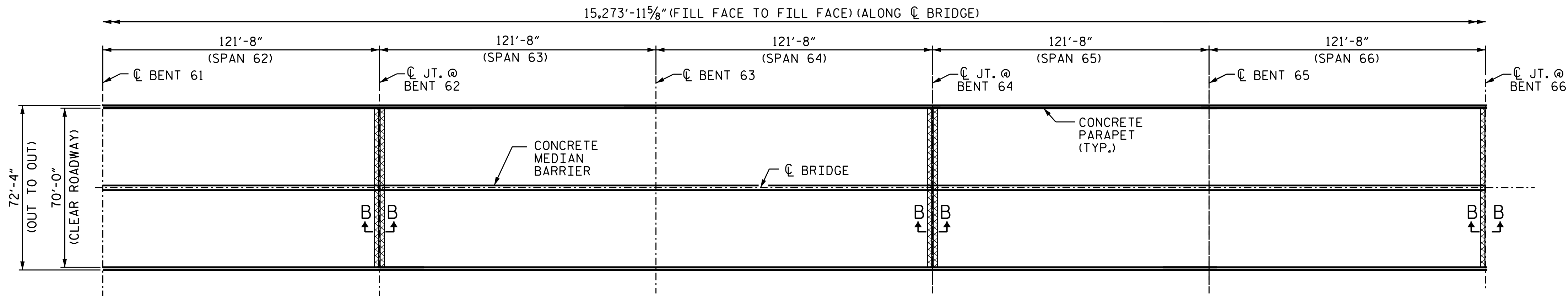
DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

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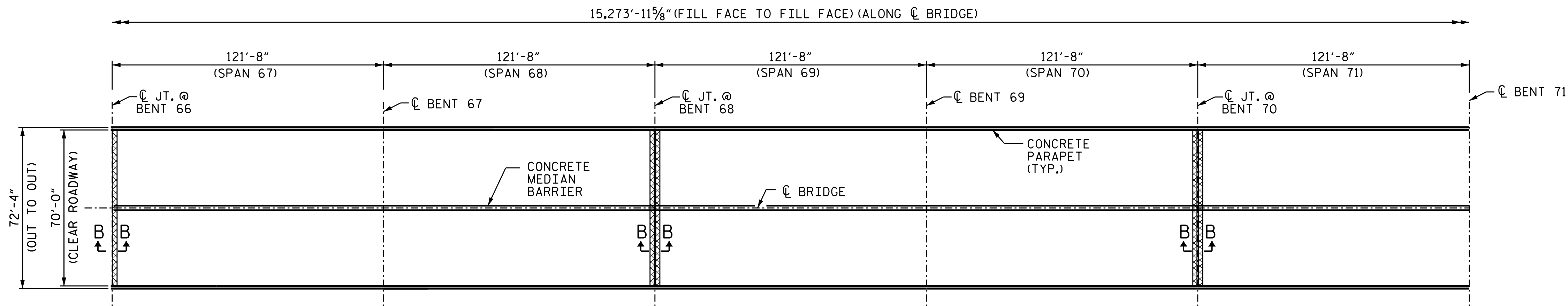
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-31
1			3			TOTAL SHEETS
2			4			217

REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 62 THRU 76		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,788.9 SQ. YDS.	
SILANE DECK TREATMENT	13,788.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	510.0 SQ. FT.	

NOTES
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

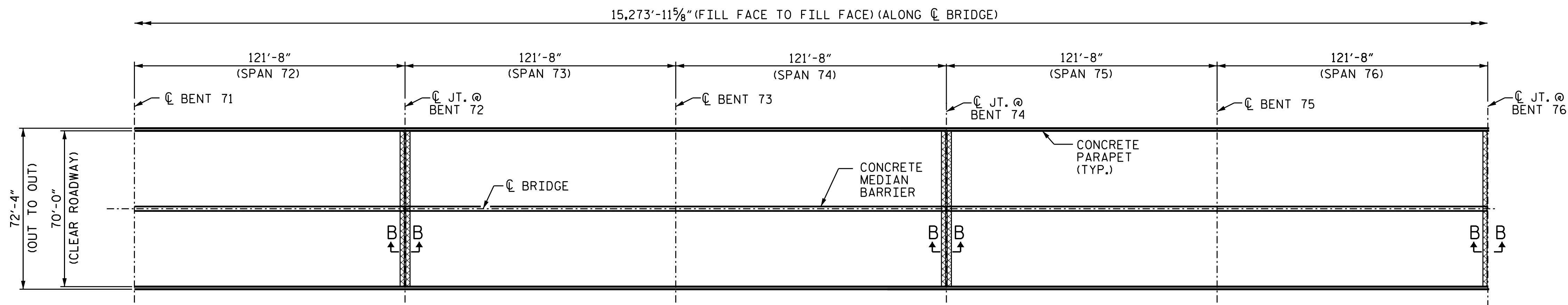


PLAN



PLAN

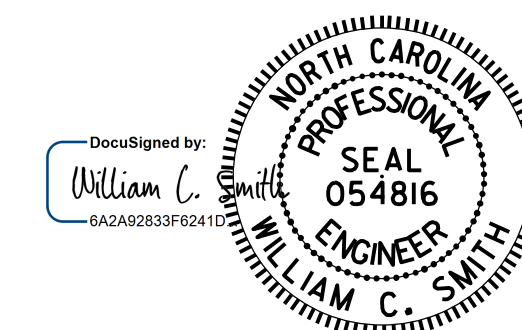
- SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 5 OF 9

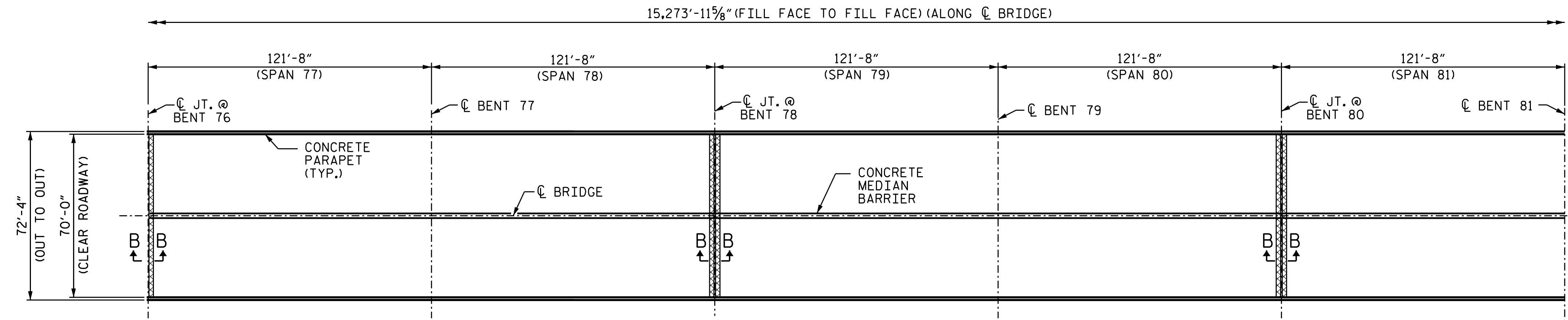


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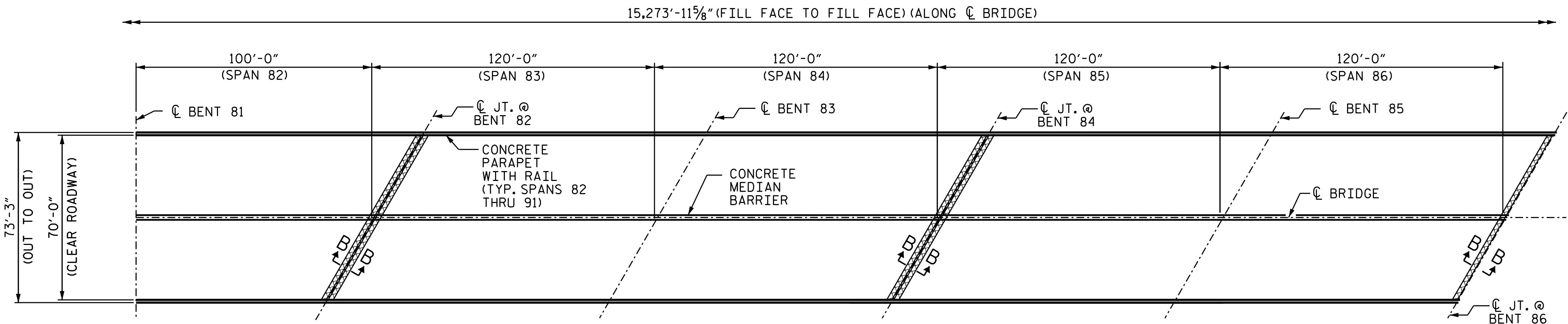
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CHECKED BY : W. C. SMITH DATE : 6/25/24

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SIGNATURES COMPLETED

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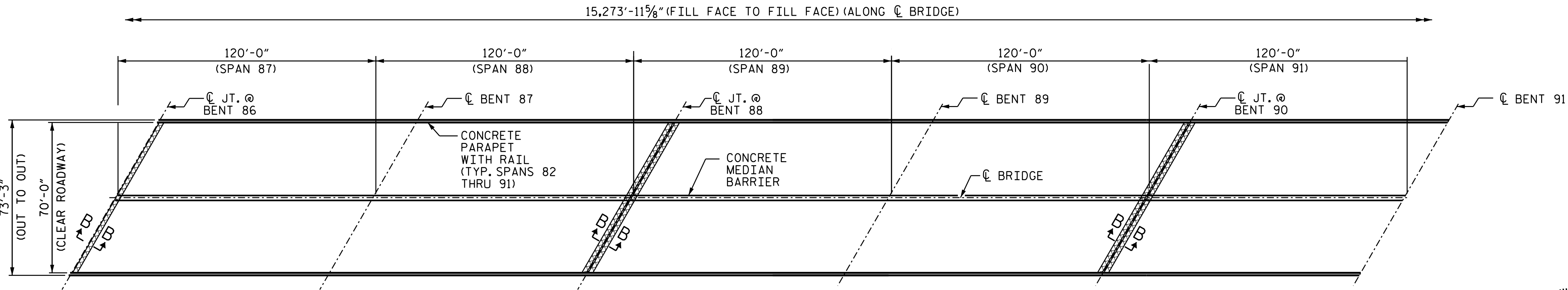


PLAN



PLAN

- SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION



PLAN

REPAIR QUANITY TABLE

DECK SURFACE REPAIR SPANS 77 THRU 91

	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,511.9 SQ. YDS.	
SILANE DECK TREATMENT	13,511.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	562.6 SQ. FT.	

NOTES

FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

PROJECT NO. 15BPR.137

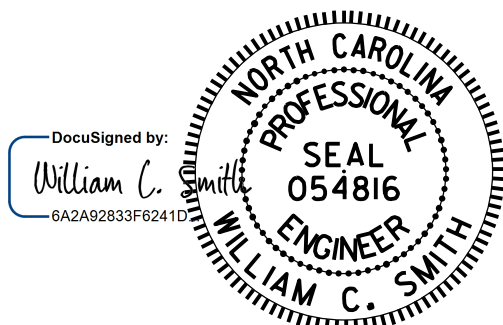
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 6 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK SURFACE REPAIR
SPANS 77 THRU 91



11/21/2025

DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

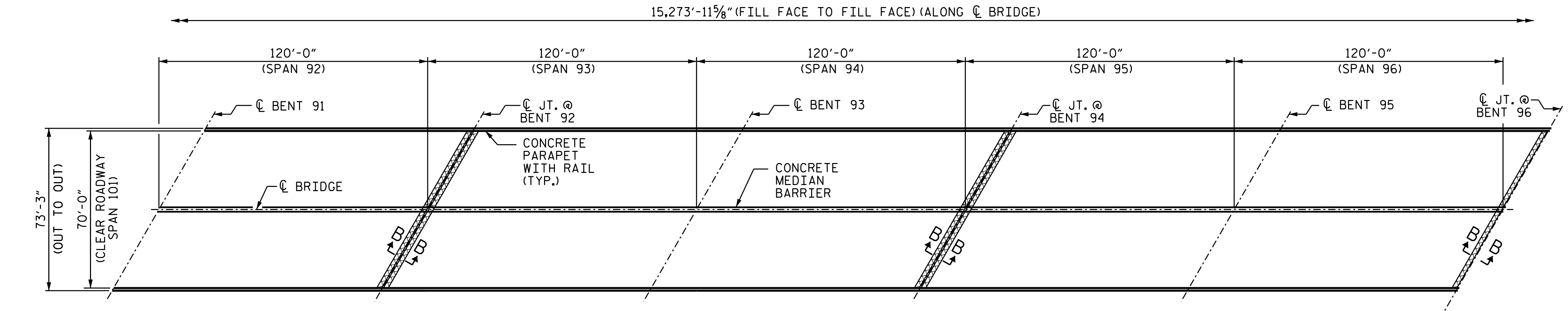
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-33
1			3			TOTAL SHEETS
2			4			217

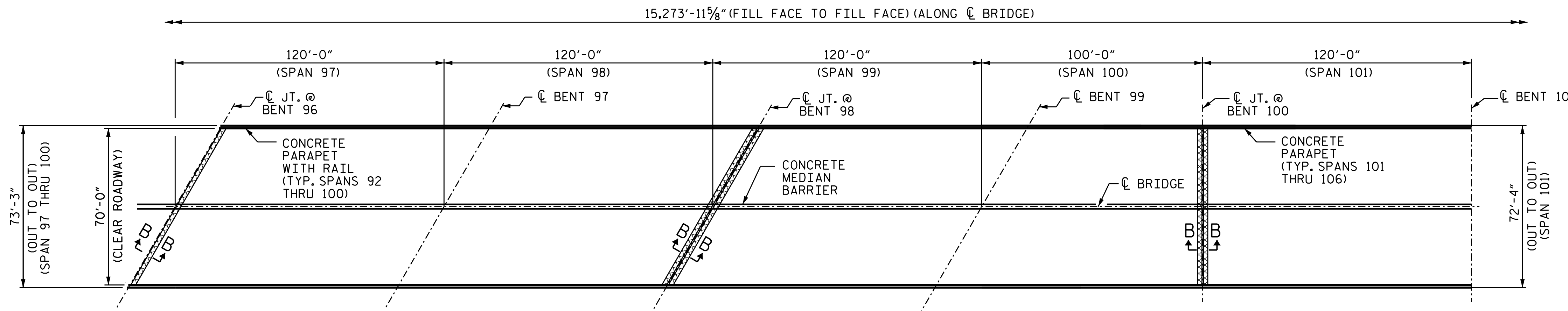
REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 92 THRU 106		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,528.9 SQ. YDS.	
SILANE DECK TREATMENT	13,528.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	571.3 SQ. FT.	

NOTES

FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

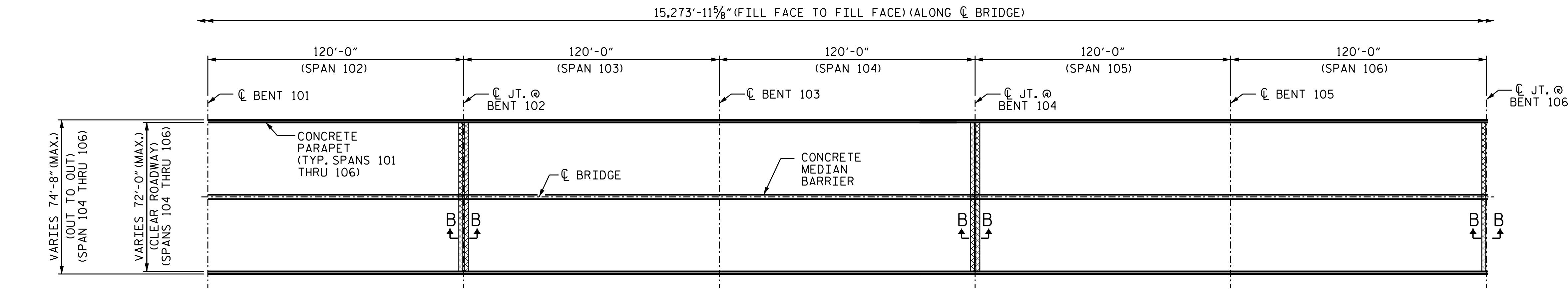


PLAN



PLAN

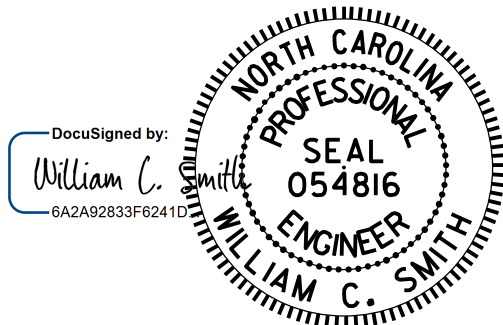
- SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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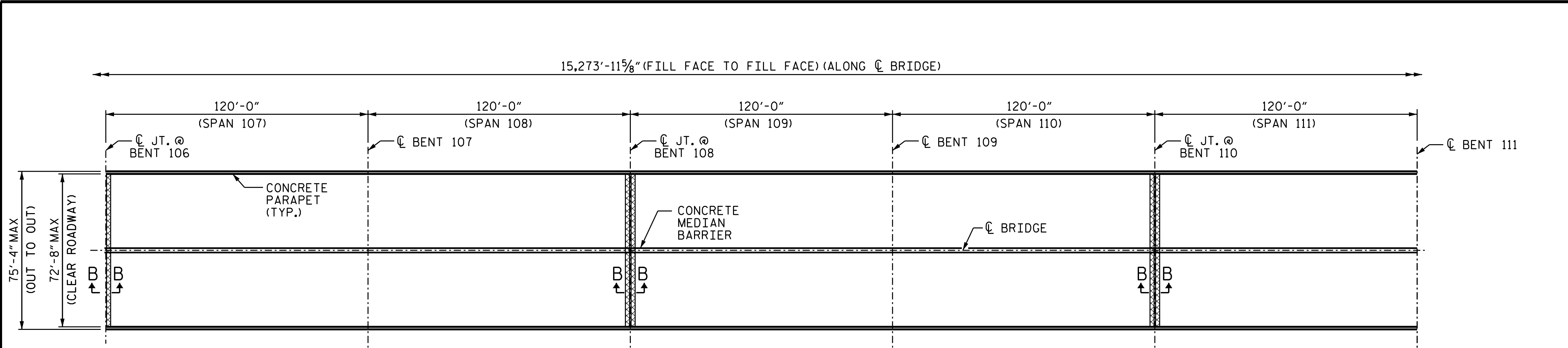


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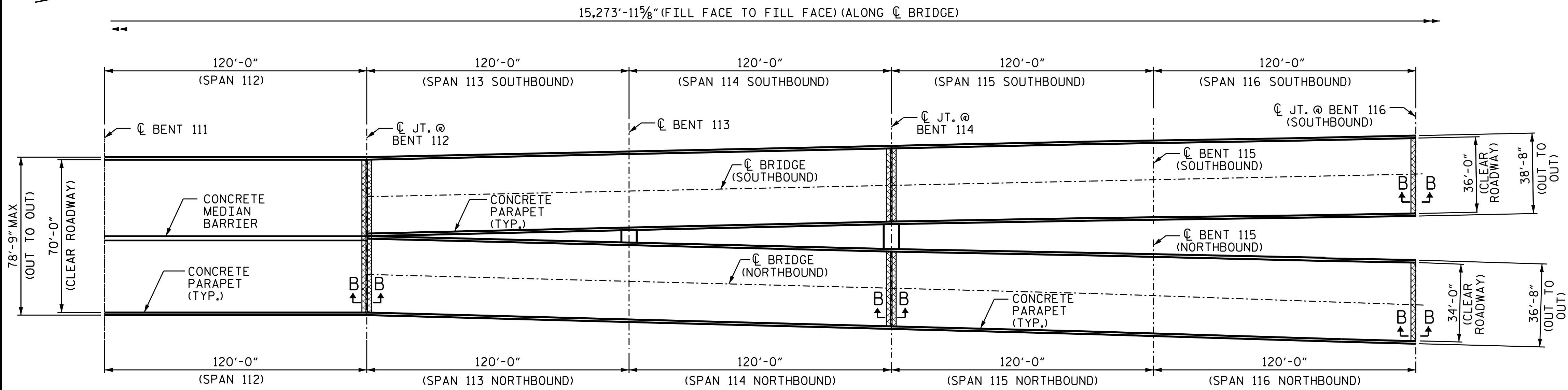
DRAWN BY : S. T. SANDOR DATE : 6/20/24
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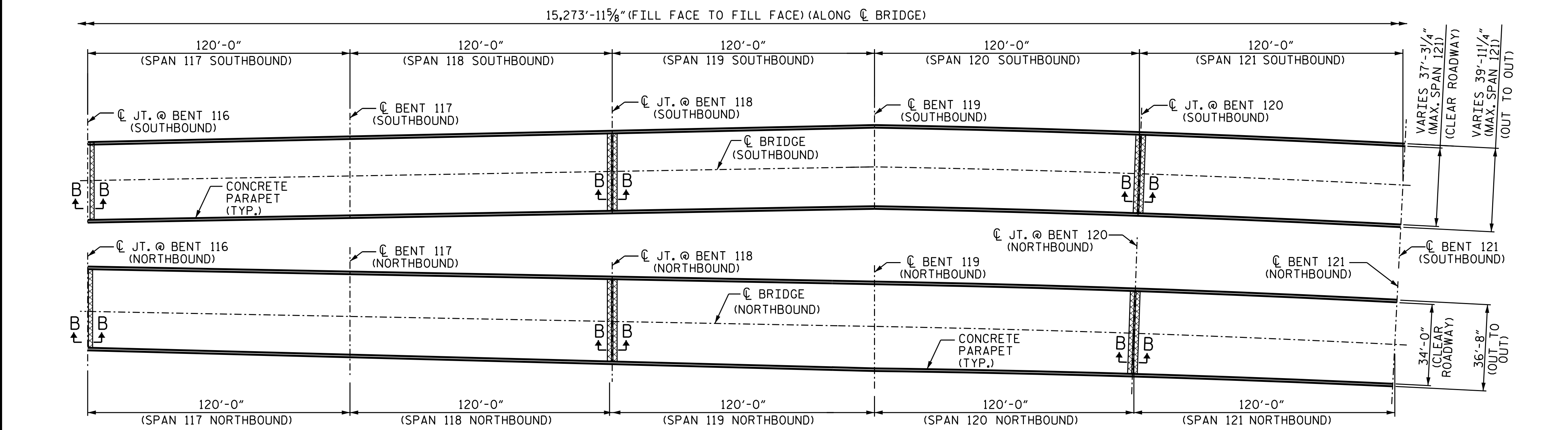
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-34
1			3			TOTAL SHEETS
2			4			217



PLAN



PLAN



PLAN

REPAIR QUANTITY TABLE		
DECK SURFACE REPAIR SPANS 107 THRU 121		
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	14,004.6 SQ. YDS.	
SILANE DECK TREATMENT	14,004.6 SQ. YDS.	
BRIDGE JOINT DEMOLITION	525.0 SQ. FT.	

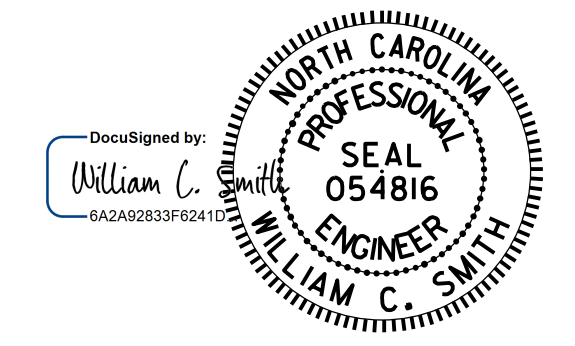
NOTES
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

- SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION

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1			3			TOTAL SHEETS
2			4			217

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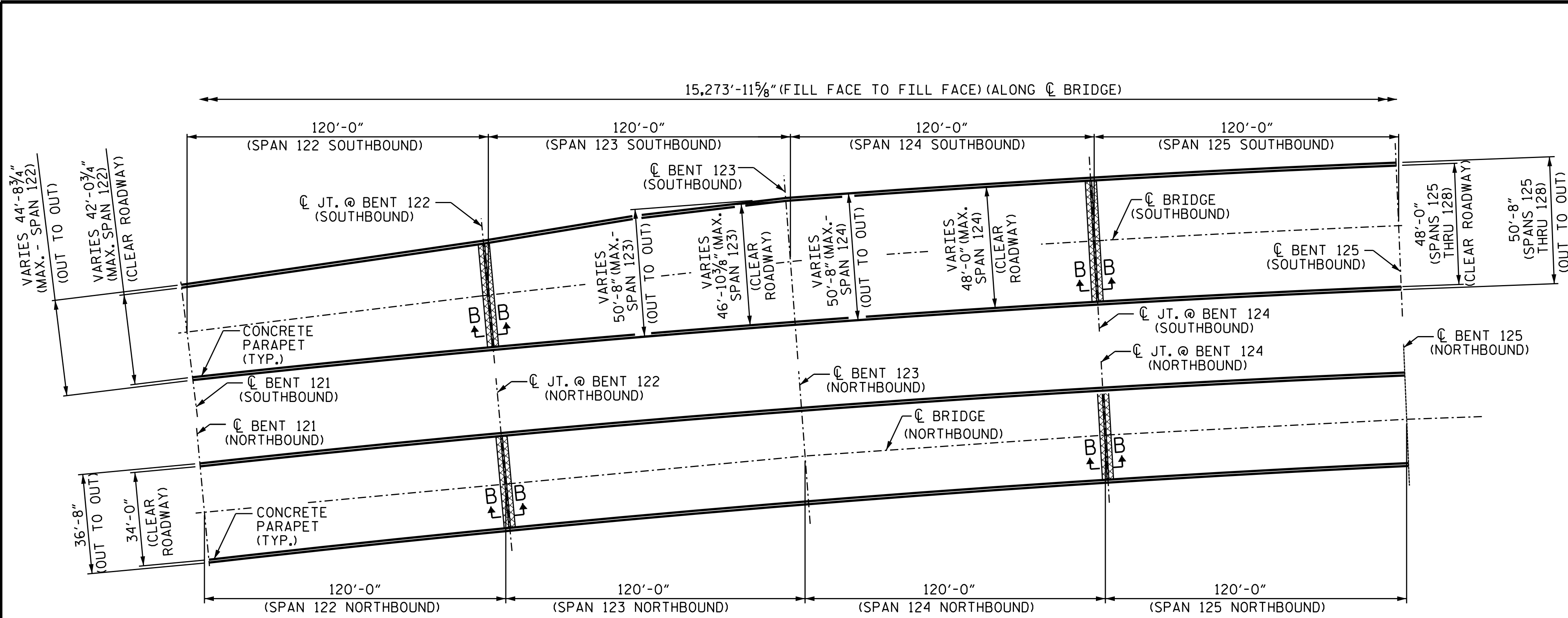


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BEAUFORT COUNTY
BRIDGE NO. 060353

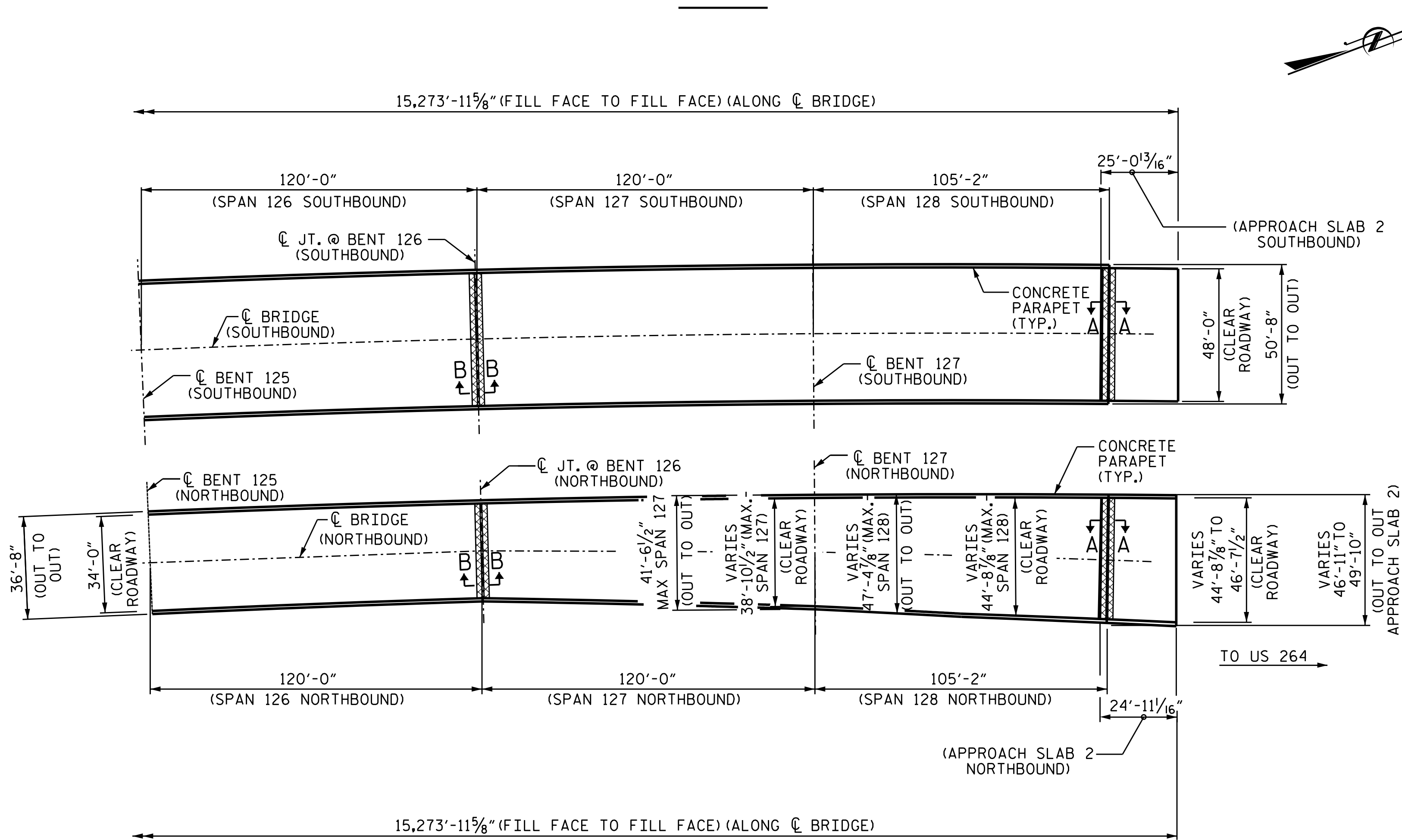
SHEET 8 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK SURFACE REPAIR
SPANS 107 THRU 121



PLAN



PLAN

REPAIR QUANTITY TABLE

DECK SURFACE REPAIR SPANS 122 THRU 128

	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	7475.5 SQ. YDS.	
SILANE DECK TREATMENT	7475.5 SQ. YDS.	
BRIDGE JOINT DEMOLITION	286.4 SQ. FT.	

APPROACH SLAB

	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	251.0 SQ. YDS.	
SILANE DECK TREATMENT	251.0 SQ. YDS.	
BRIDGE JOINT DEMOLITION	46.4 SQ. FT.	

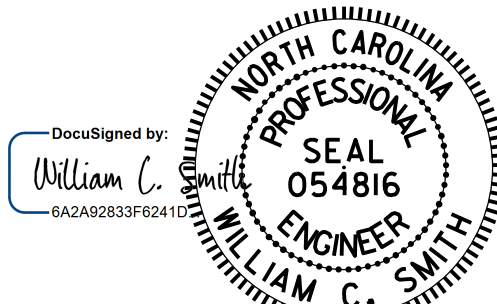
NOTES

FOR SECTION A-A AND B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

- SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT
- BRIDGE JOINT DEMOLITION

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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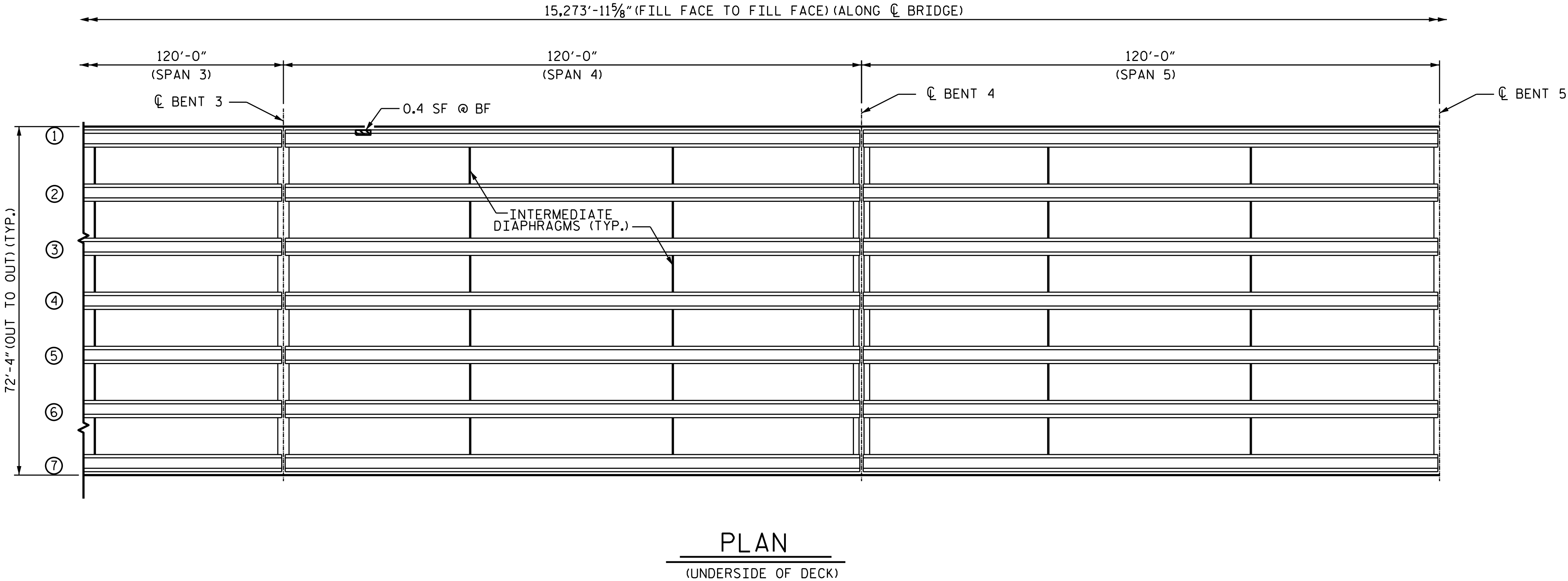
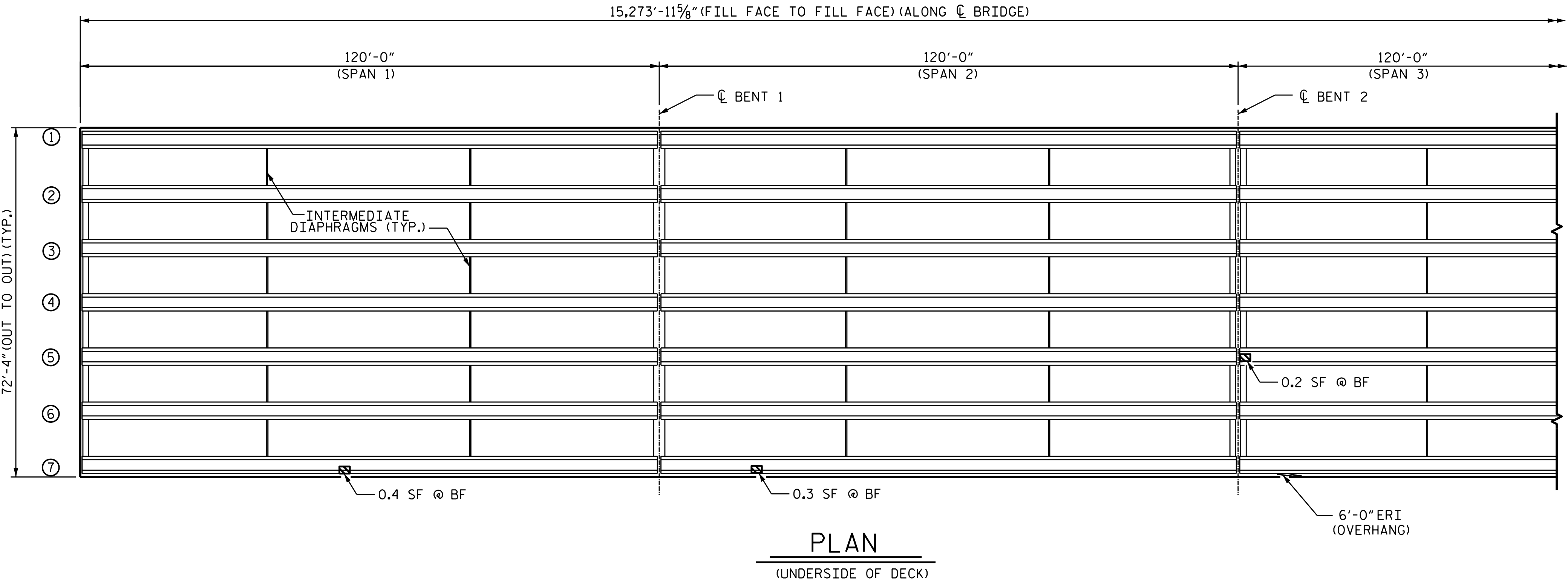
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-36
1			3			TOTAL SHEETS
2			4			217

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 1 THRU 5				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	1.3	0.4		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	6.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

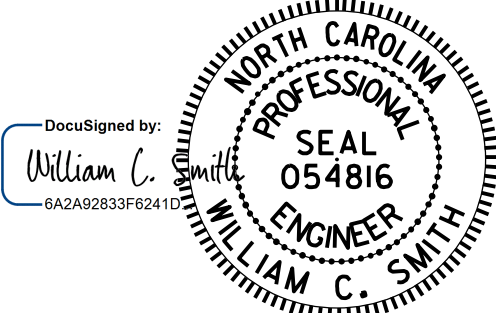
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.



- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTION
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 1 OF 29



11/21/2025

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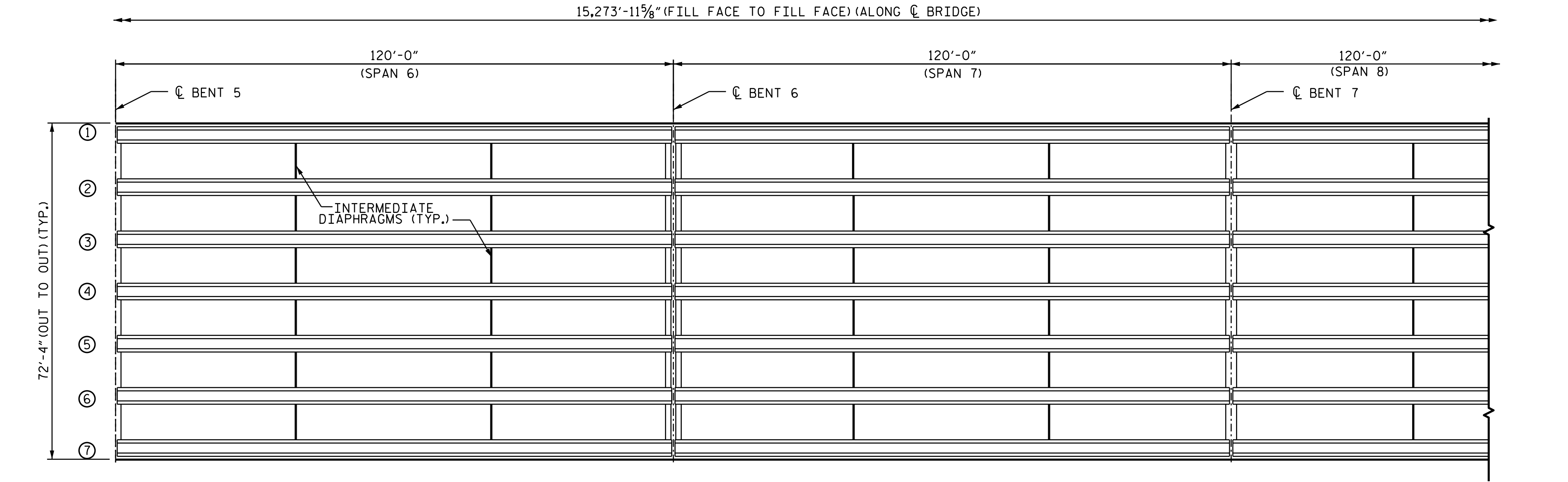
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 1 THRU 5					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					TOTAL SHEETS
S-37					217

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 6 THRU 10				
	ESTIMATE		ACTUAL	
	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
SHOTCRETE REPAIRS				
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

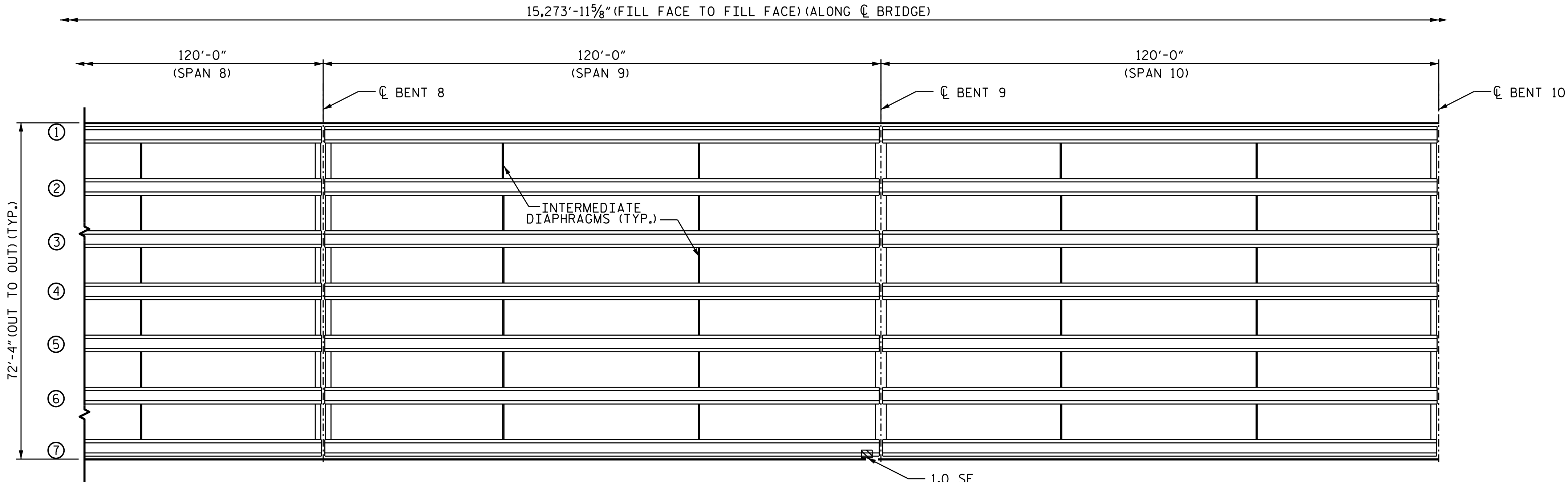
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.



PLAN
(UNDERSIDE OF DECK)

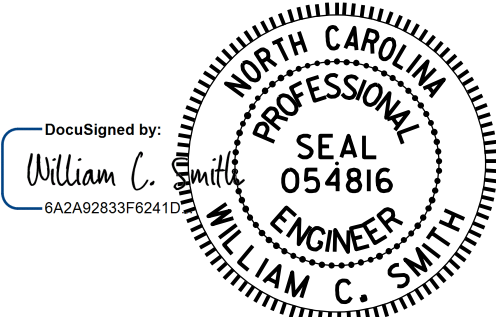


PLAN
(UNDERSIDE OF DECK)

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIR
- ERI EPOXY RESIN INJECTION
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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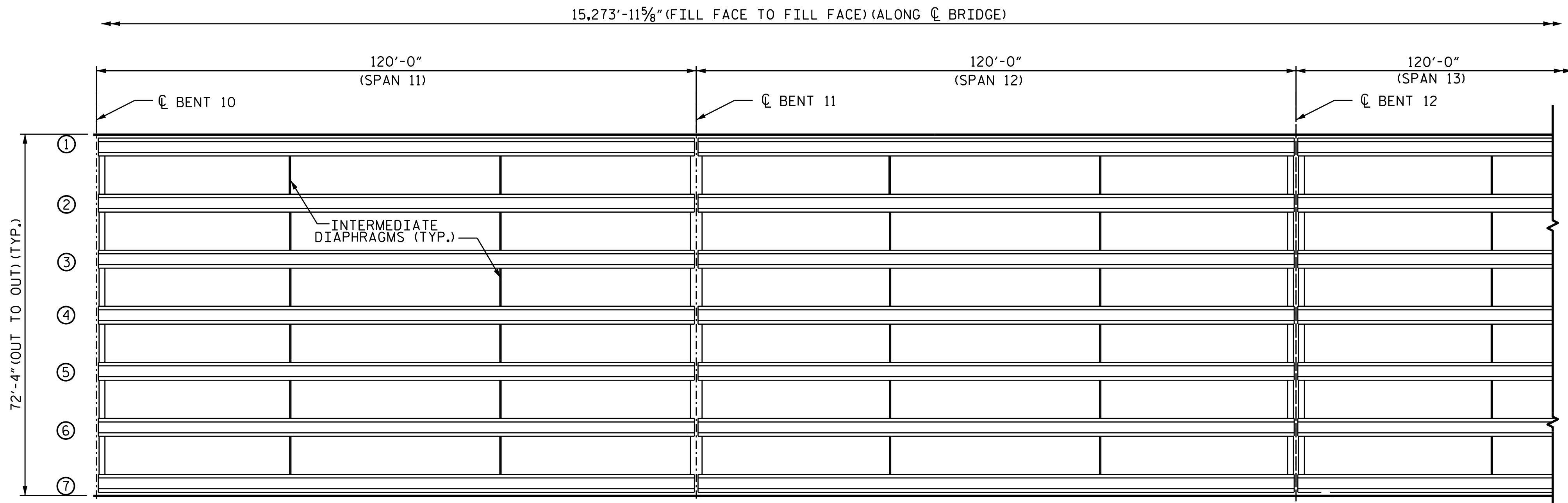


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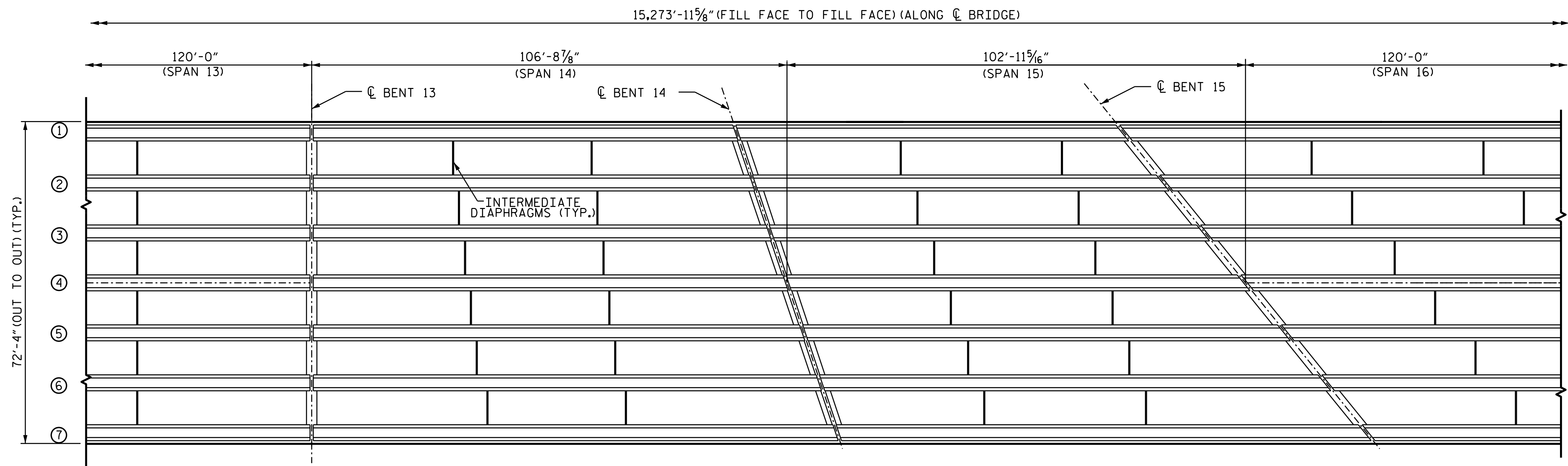
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CHECKED BY : W. C. SMITH DATE : 09/30/24

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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 6 THRU 10					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					S-38
					217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 11 THRU 15				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTION
- TF

TOP OF FLANGE
- BF

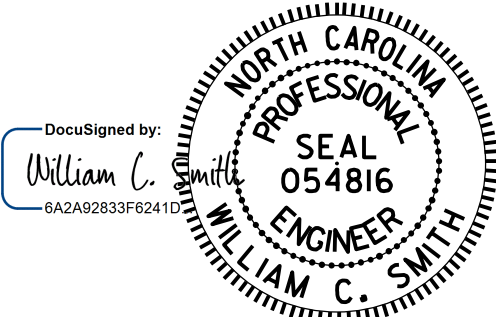
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

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BEAUFORT COUNTY
BRIDGE NO. 060353

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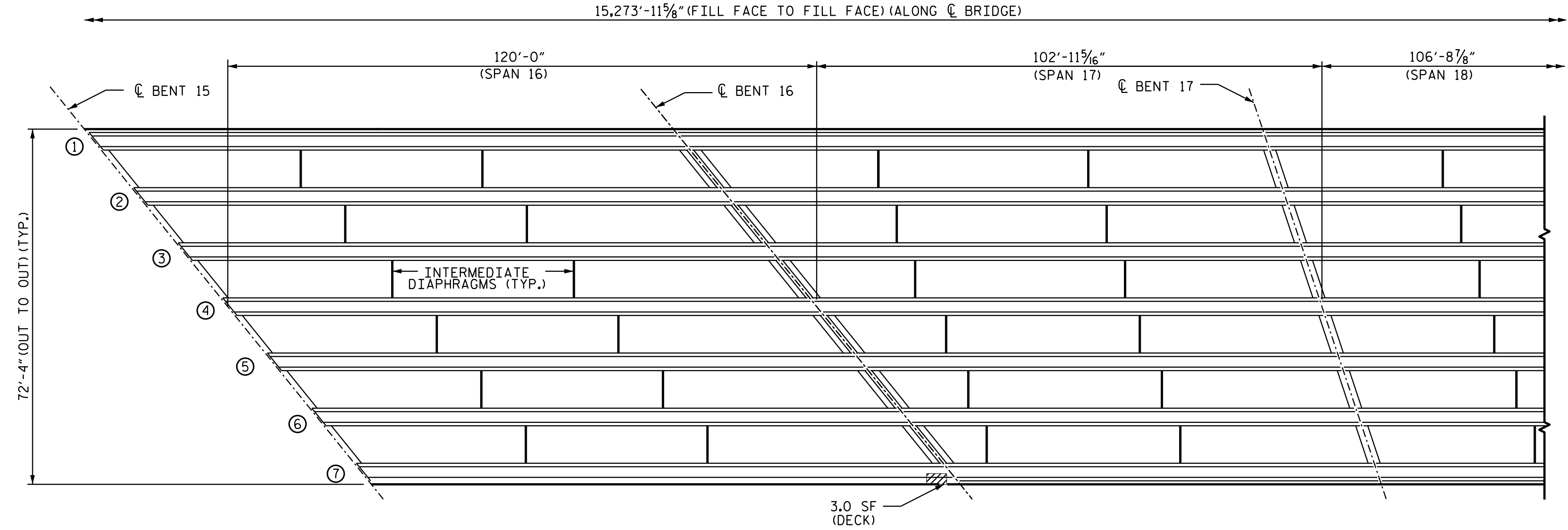
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-39
2			4			217

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 16 THRU 20				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	3.0	1.5		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.8	0.2		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

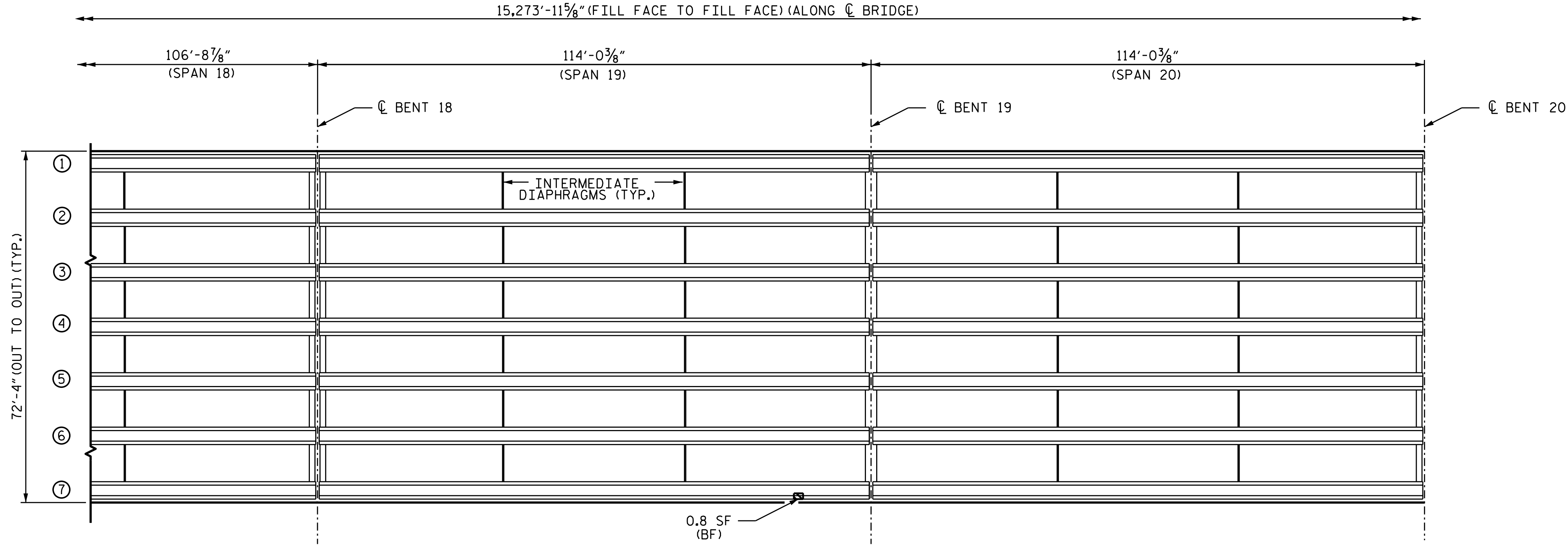
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.



PLAN
(UNDERSIDE OF DECK)

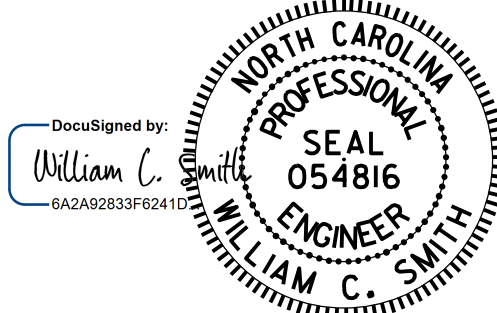


PLAN
(UNDERSIDE OF DECK)

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTION
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 4 OF 29



11/21/2025

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-40
1			3			TOTAL SHEETS
2			4			217

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 21 THRU 25				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.5	0.3		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

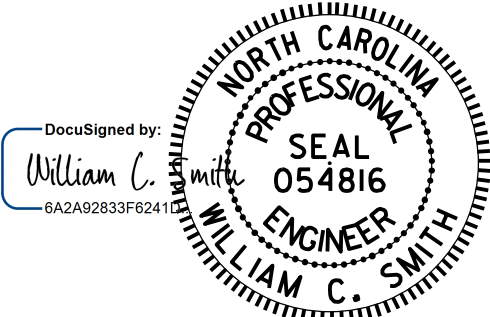
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

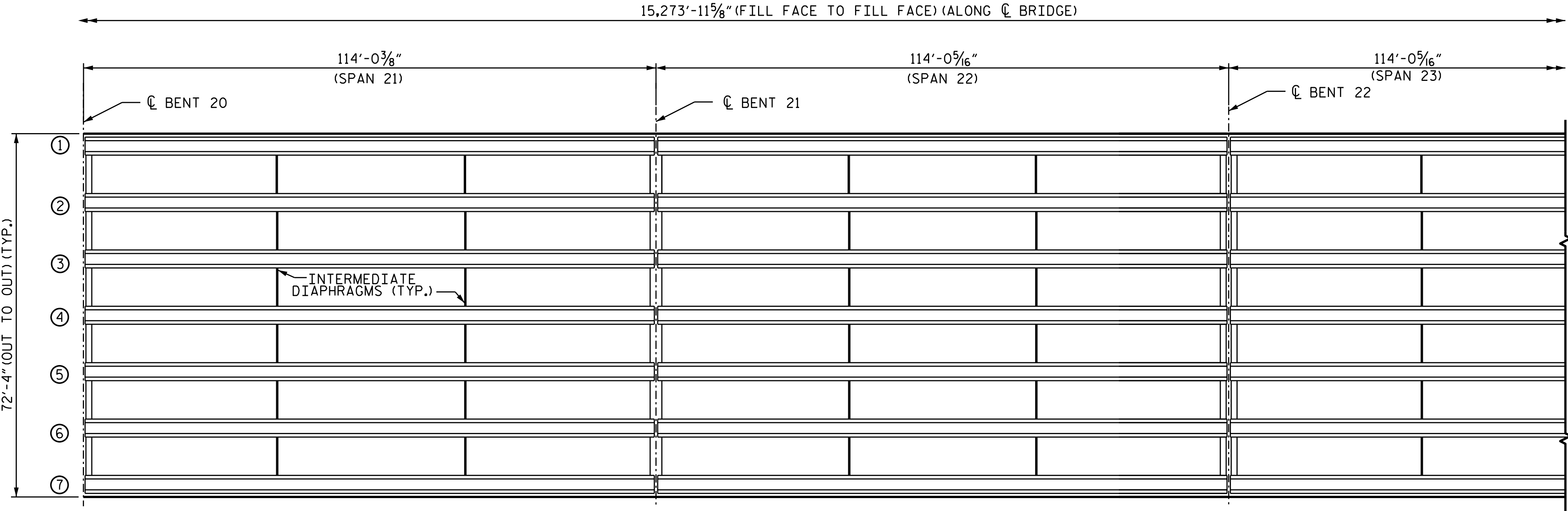
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 5 OF 29

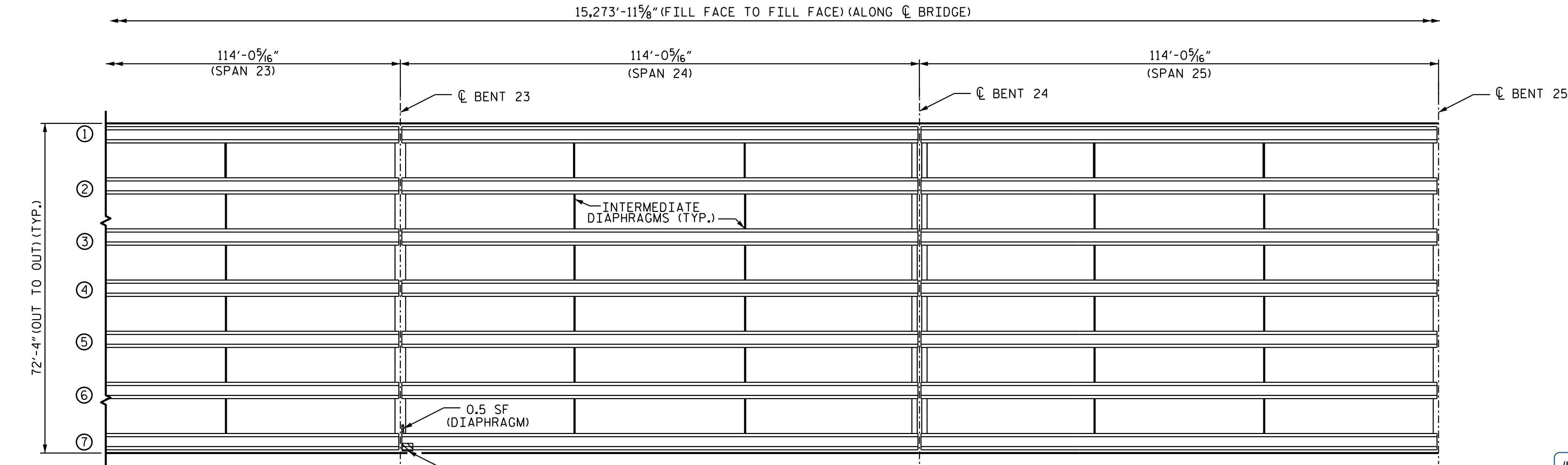


11/21/2025

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 21 THRU 25					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

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CHECKED BY : W. C. SMITH DATE : 09/30/24

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 26 THRU 30				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

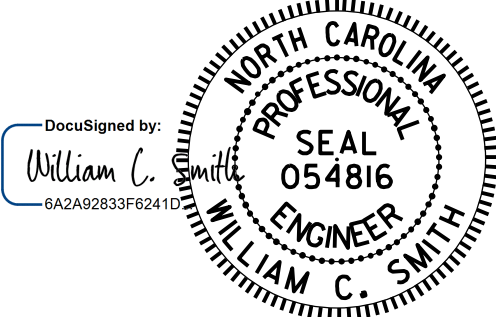
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

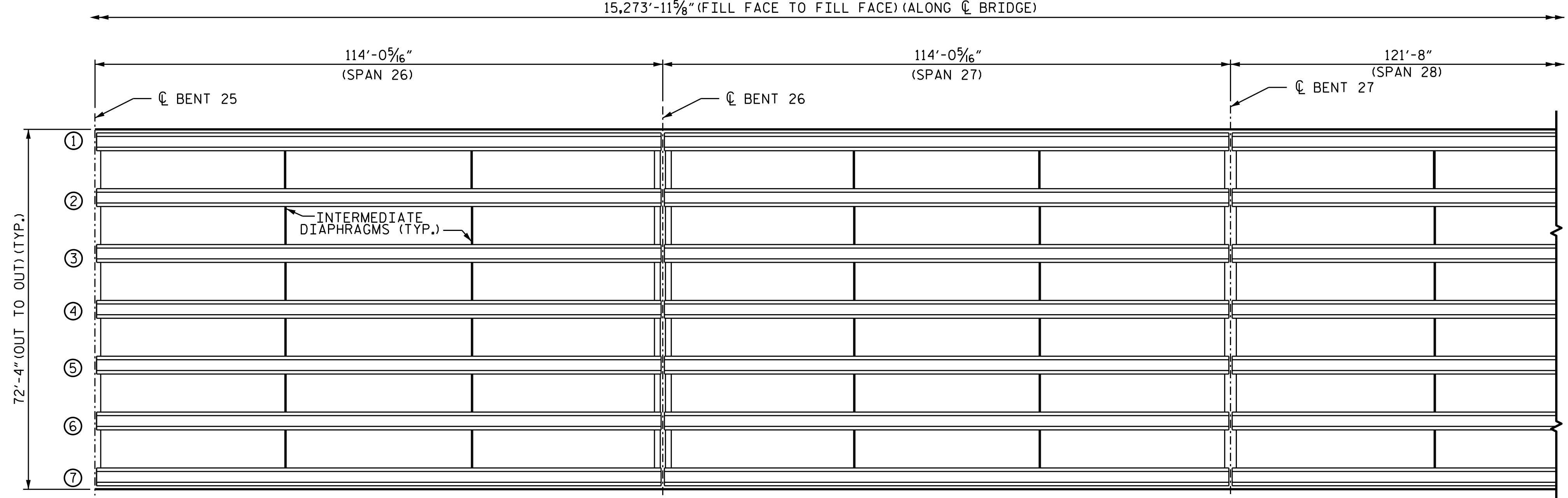
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 6 OF 29

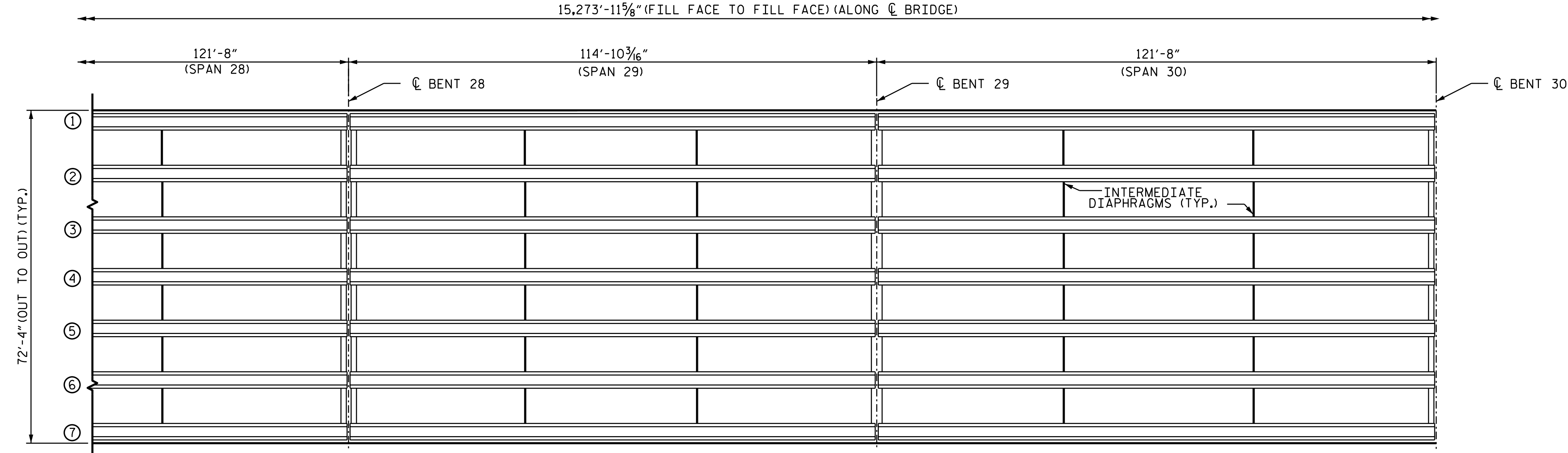


11/21/2025

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 26 THRU 30					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
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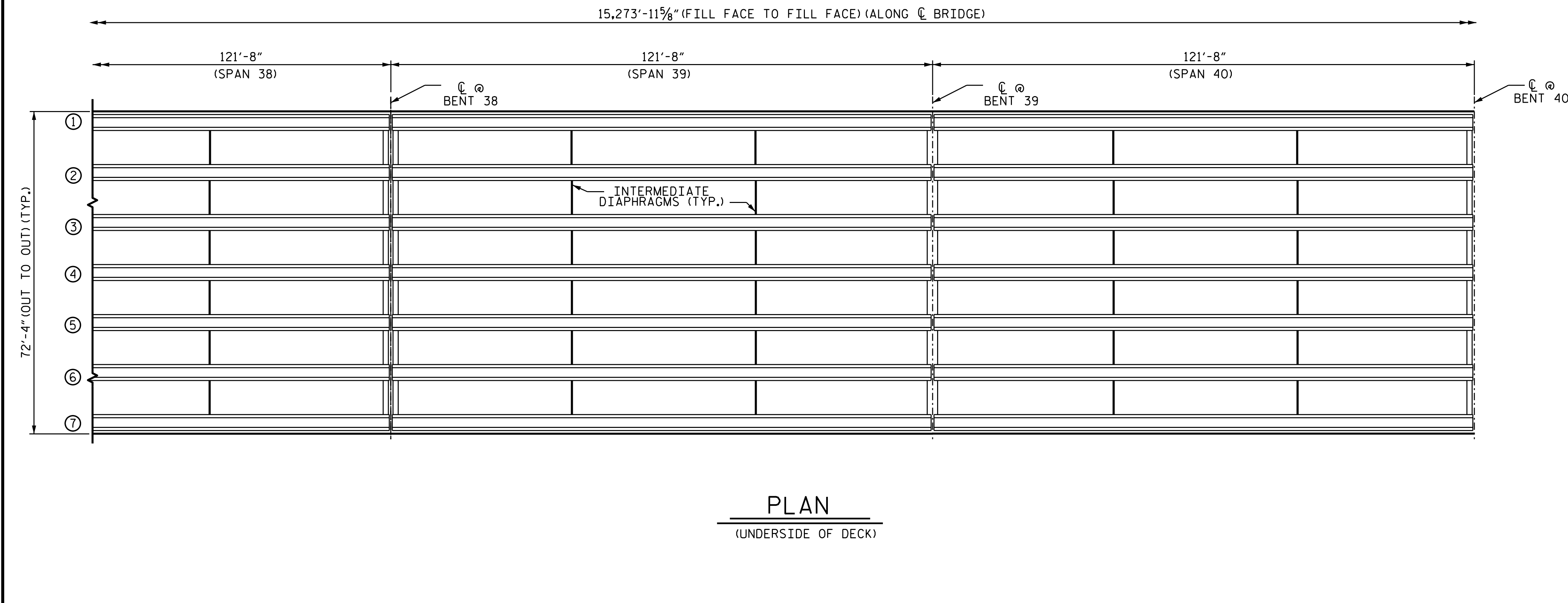
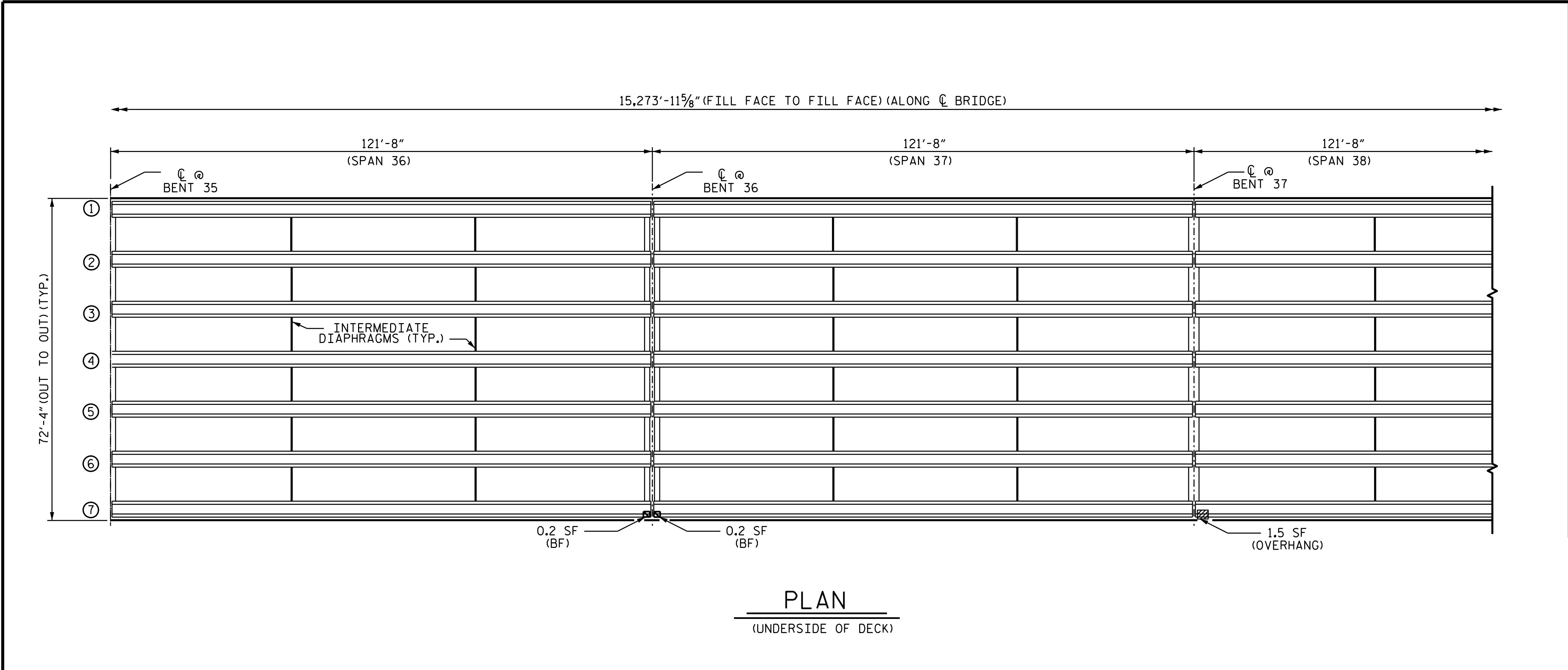


PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/25/24
CHECKED BY : W. C. SMITH DATE : 09/30/24



REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 36 THRU 40				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	1.5	0.8		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.4	0.1		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

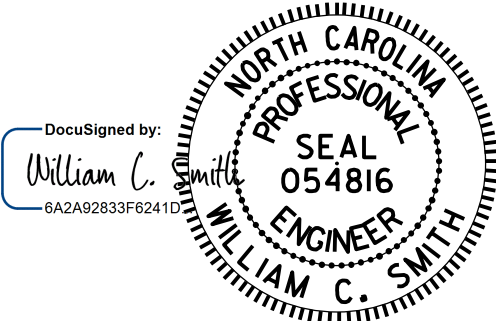
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

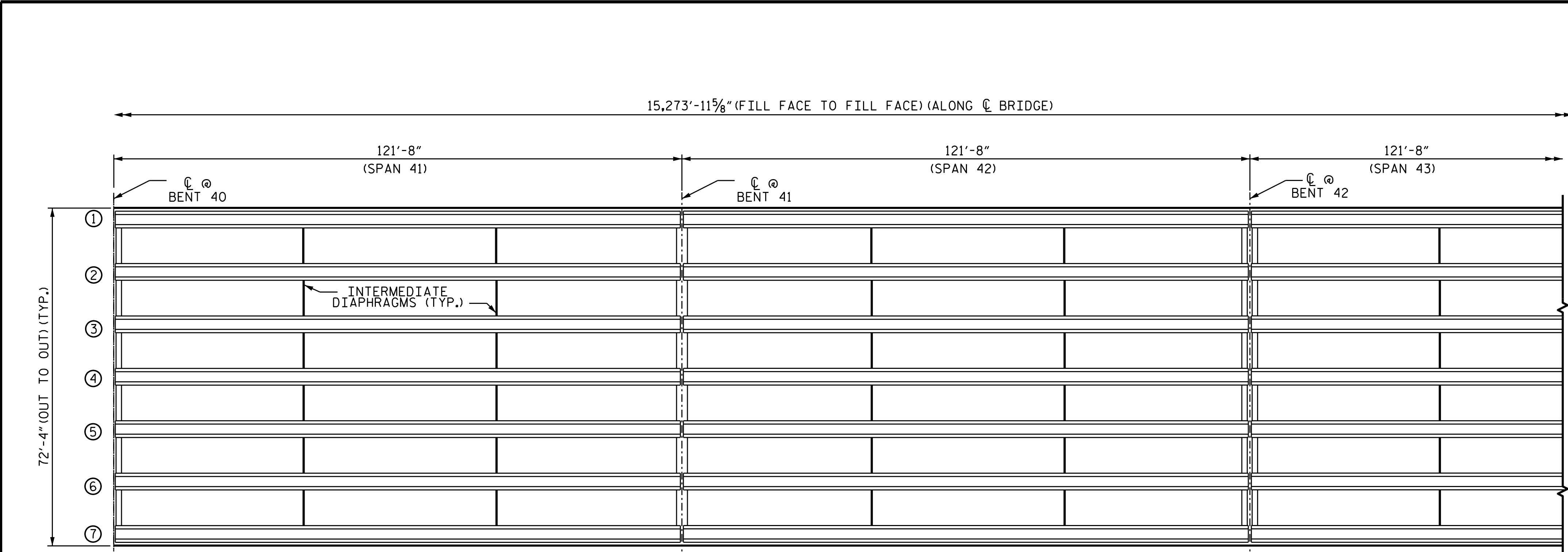
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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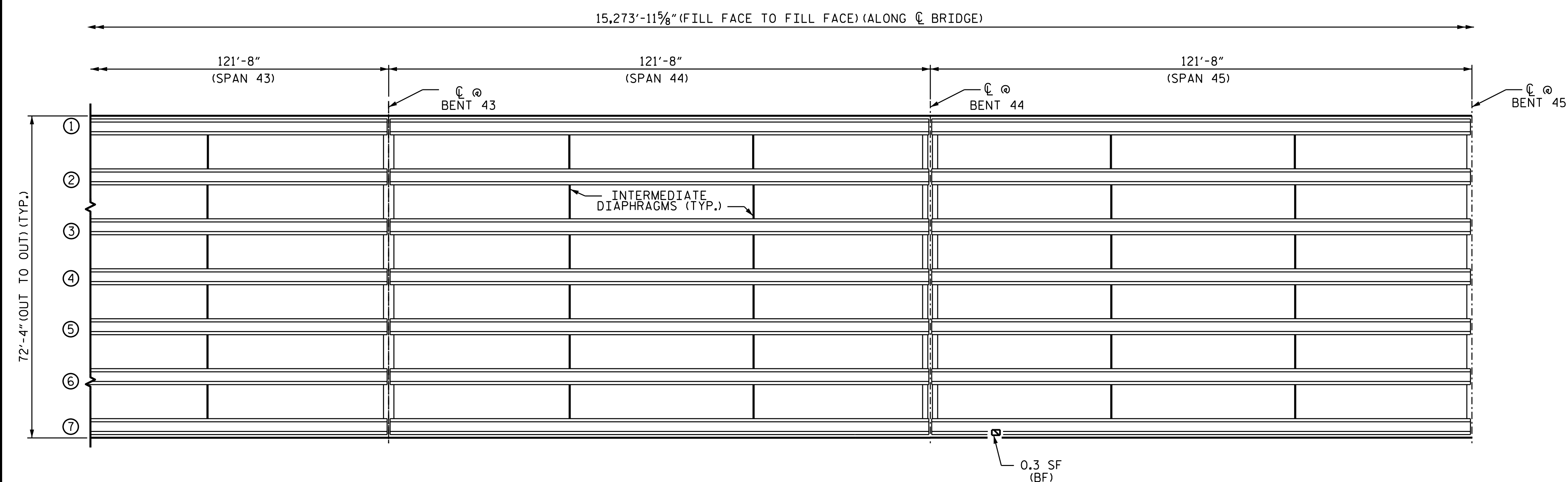


STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 36 THRU 40					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
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DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/26/24
CHECKED BY : W. C. SMITH DATE : 09/30/24



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 41 THRU 45				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.3	0.1		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTION
- TF

TOP OF FLANGE
- BF

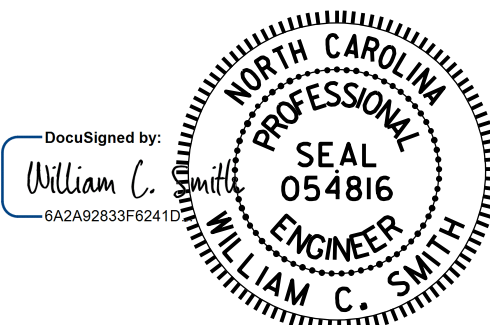
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 9 OF 29

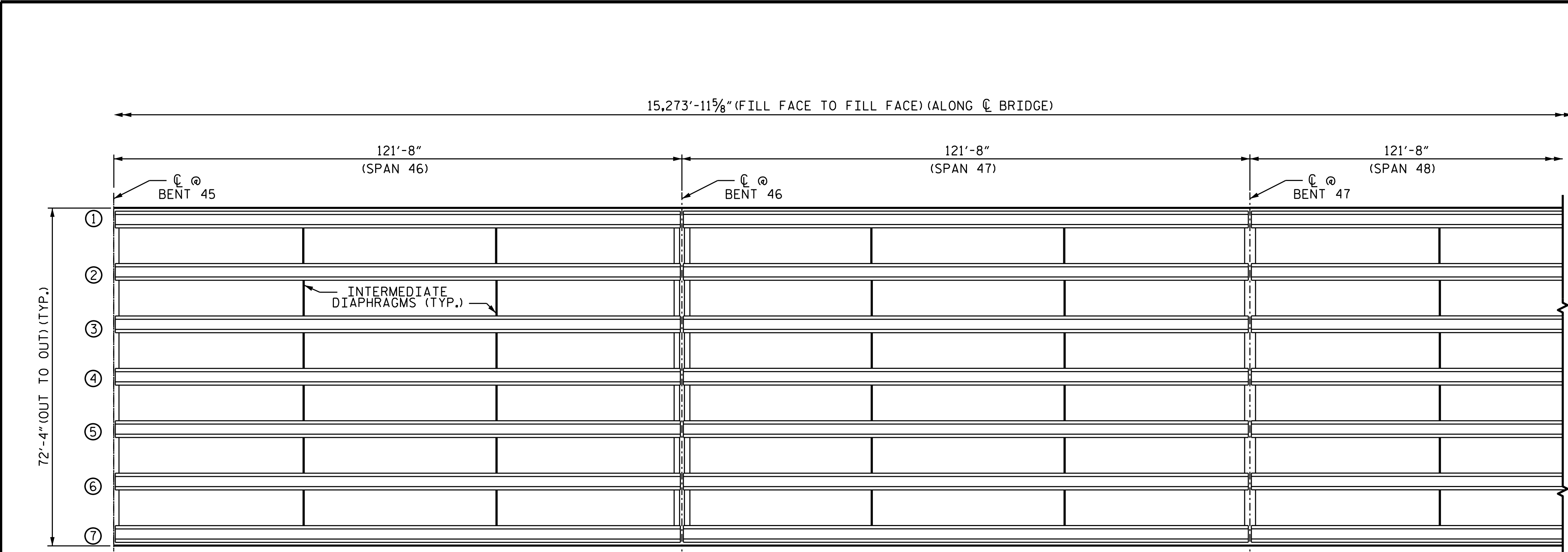


11/21/2025

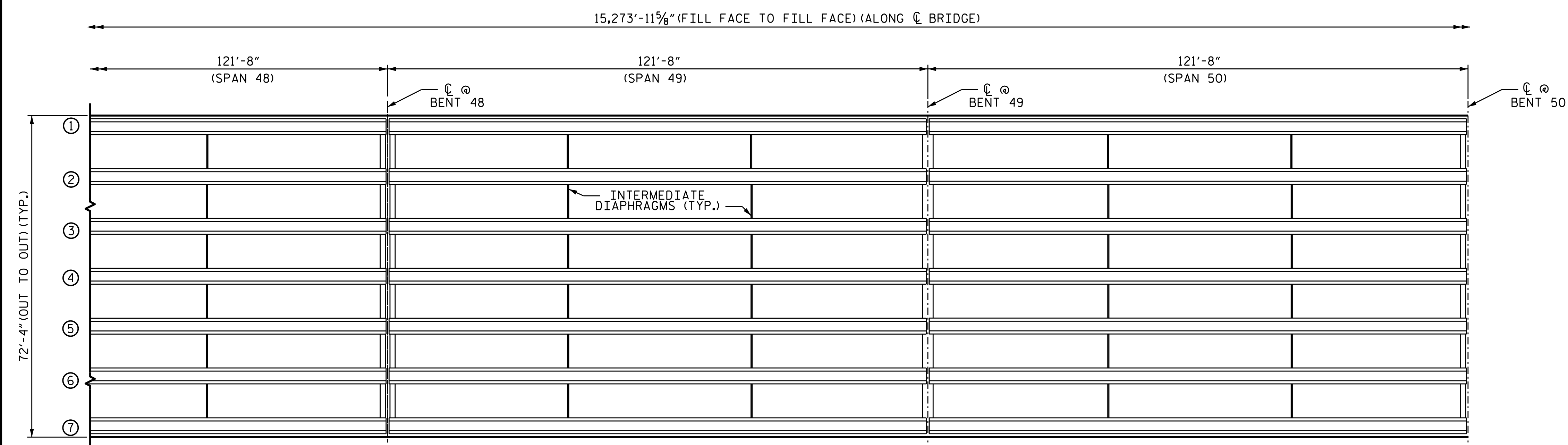
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-45
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 46 THRU 50				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

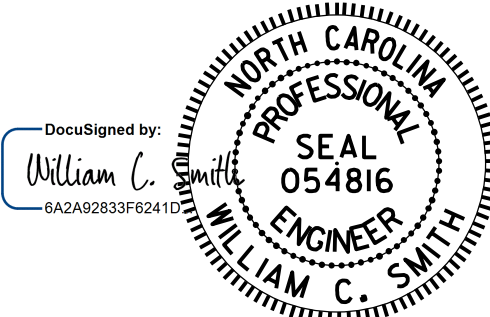
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 10 OF 29

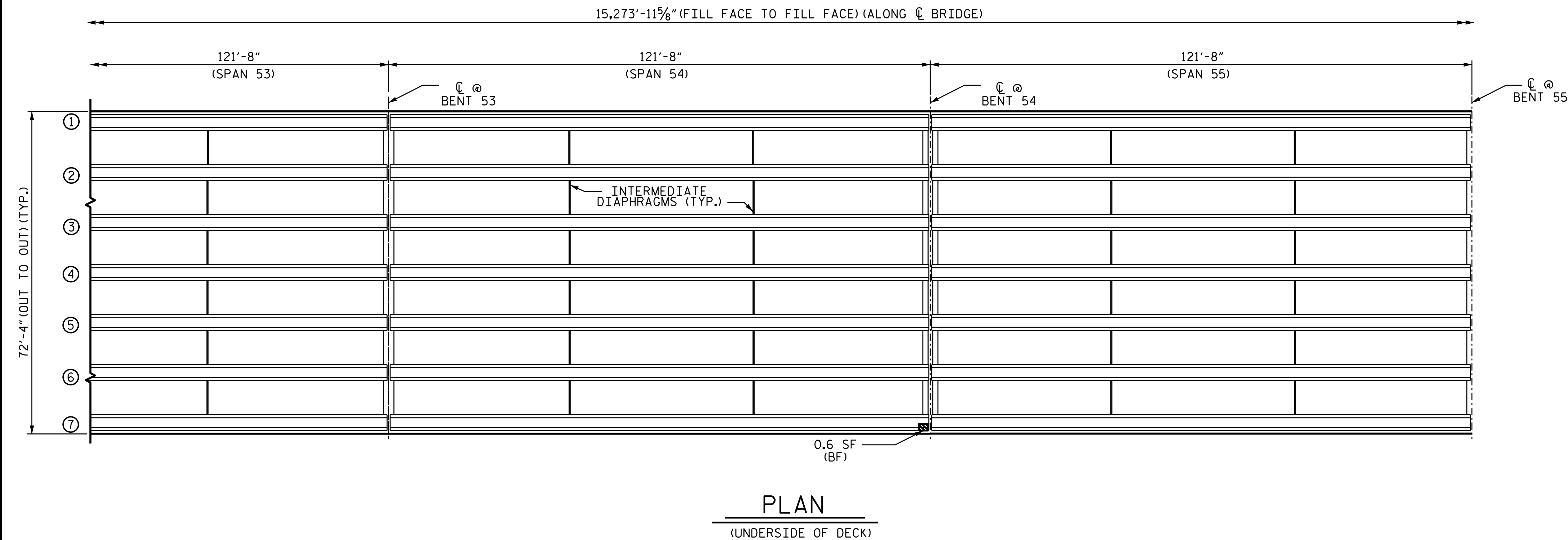
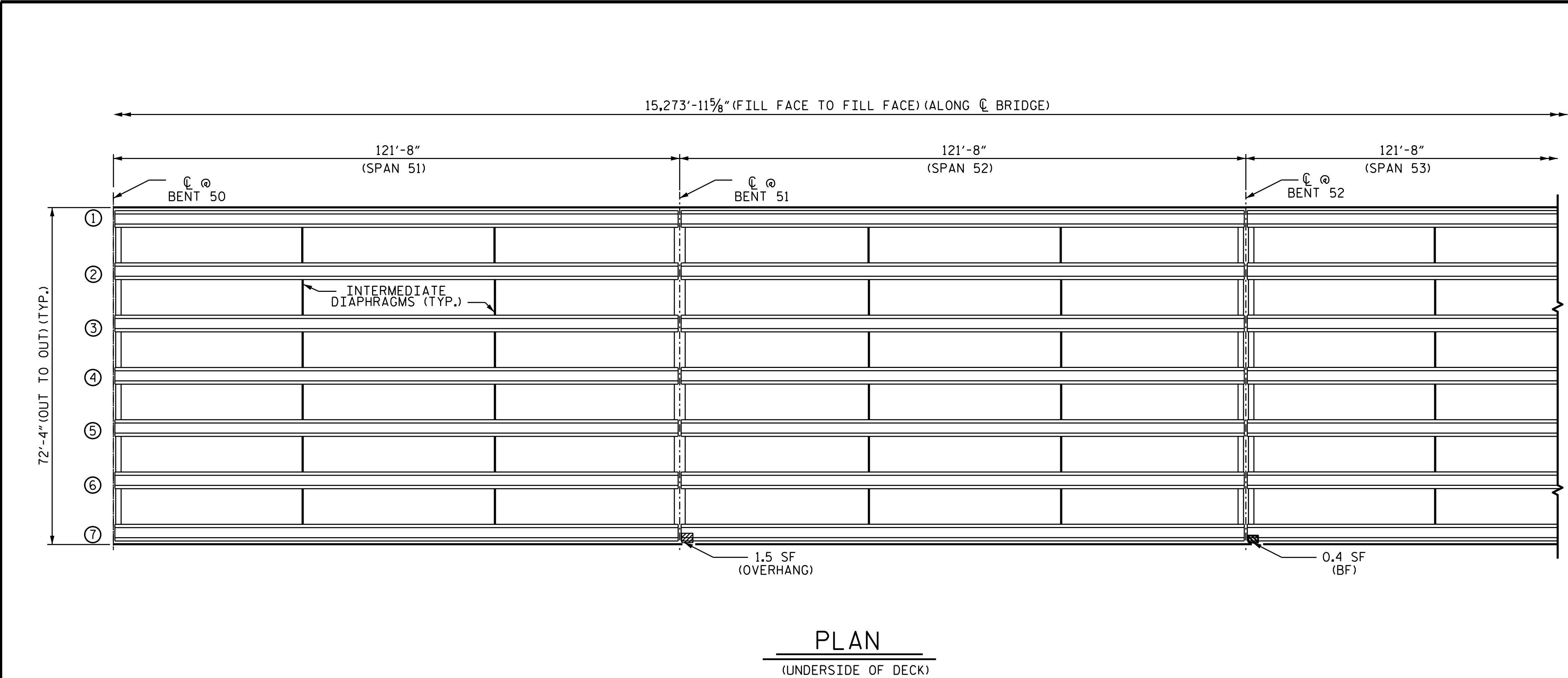


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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-46
2			4			217



REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 51 THRU 55				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	1.5	0.8		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

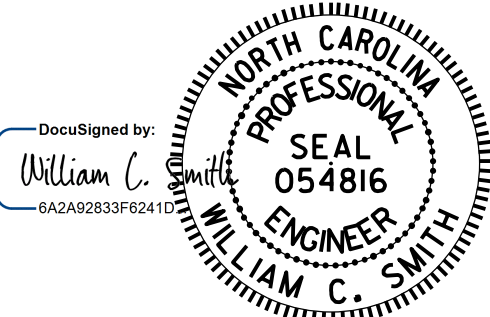
NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
CONCRETE REPAIRS
PRESTRESSED CONCRETE GIRDER REPAIRS
ERI
TF
BF
W
①

EPOXY RESIN INJECTIONS
TOP OF FLANGE
BOTTOM OF FLANGE
WEB
GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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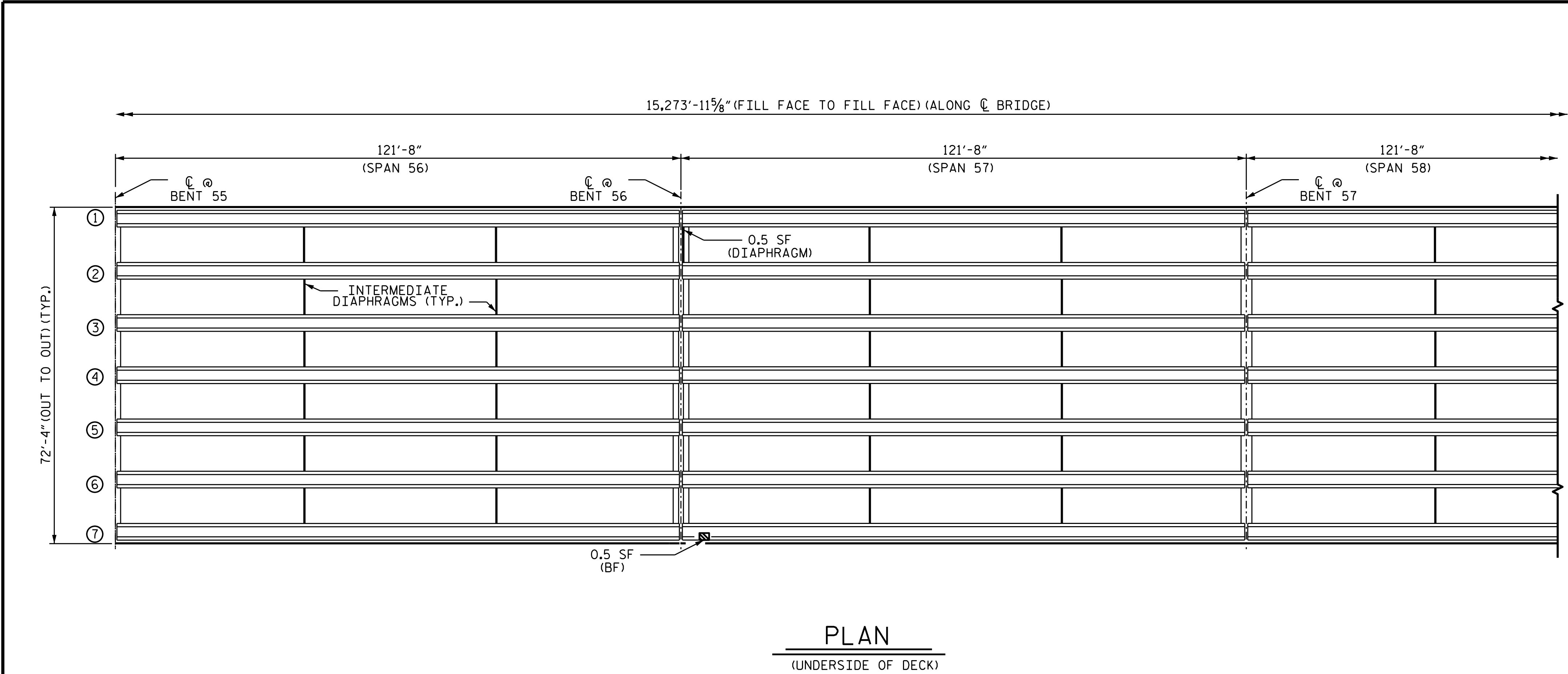


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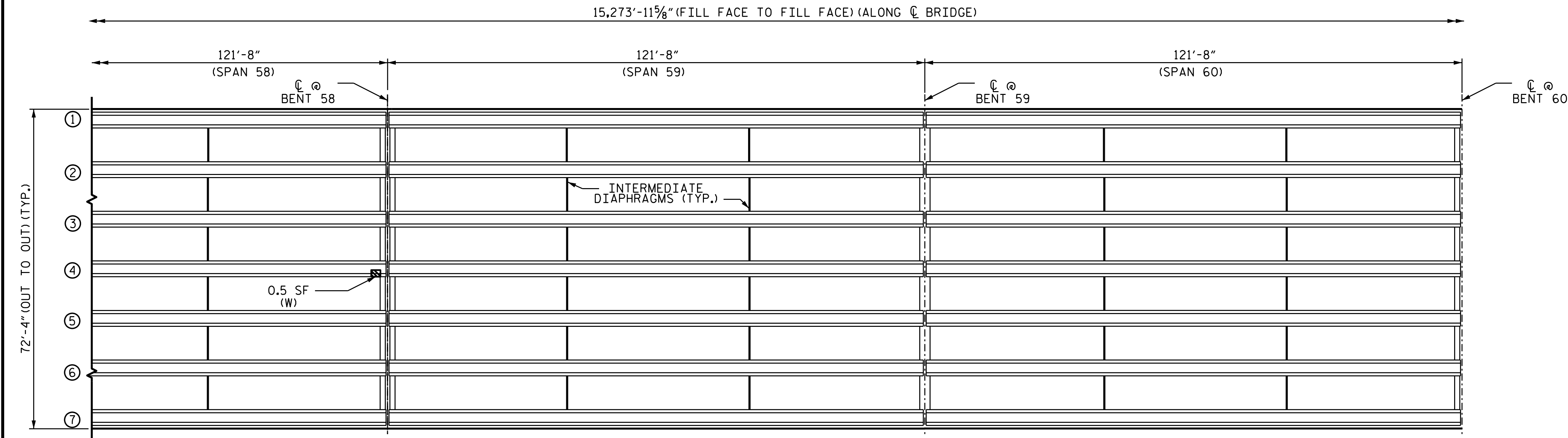
DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/26/24
CHECKED BY : W. C. SMITH DATE : 09/30/24

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-47
1			3			TOTAL SHEETS
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 56 THRU 60				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.5	0.3		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

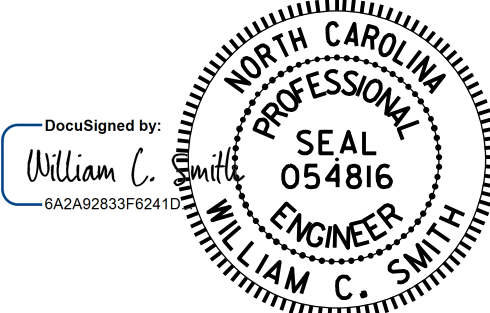
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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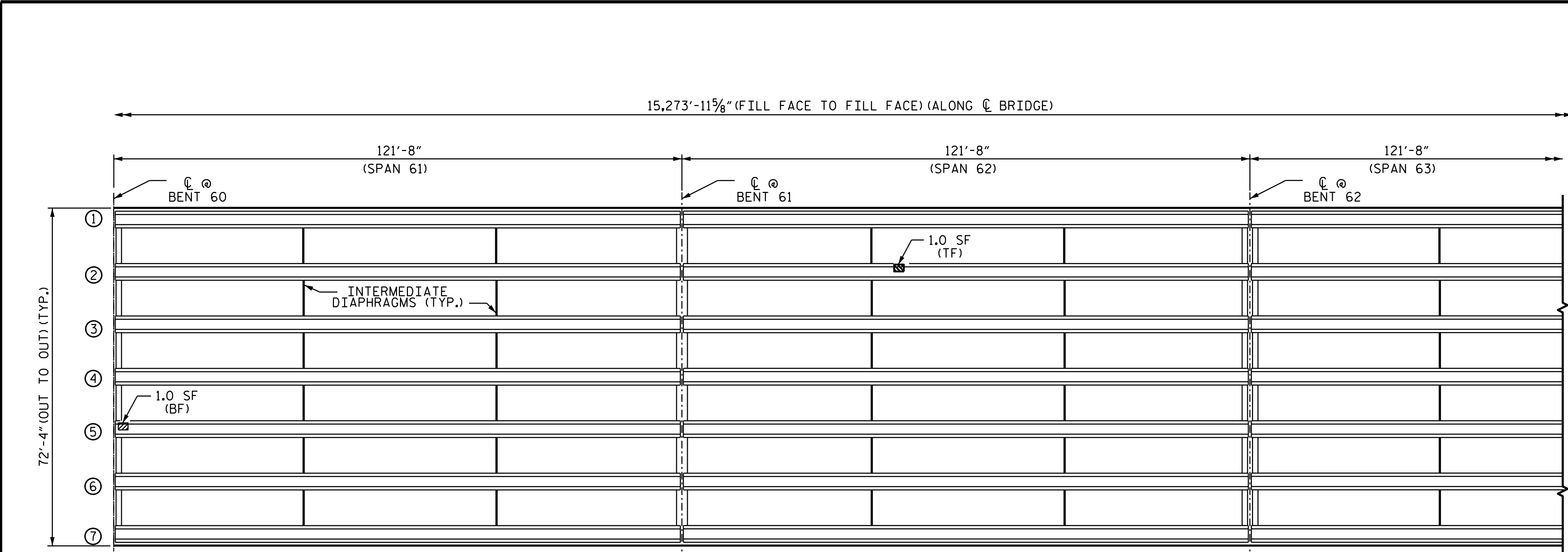


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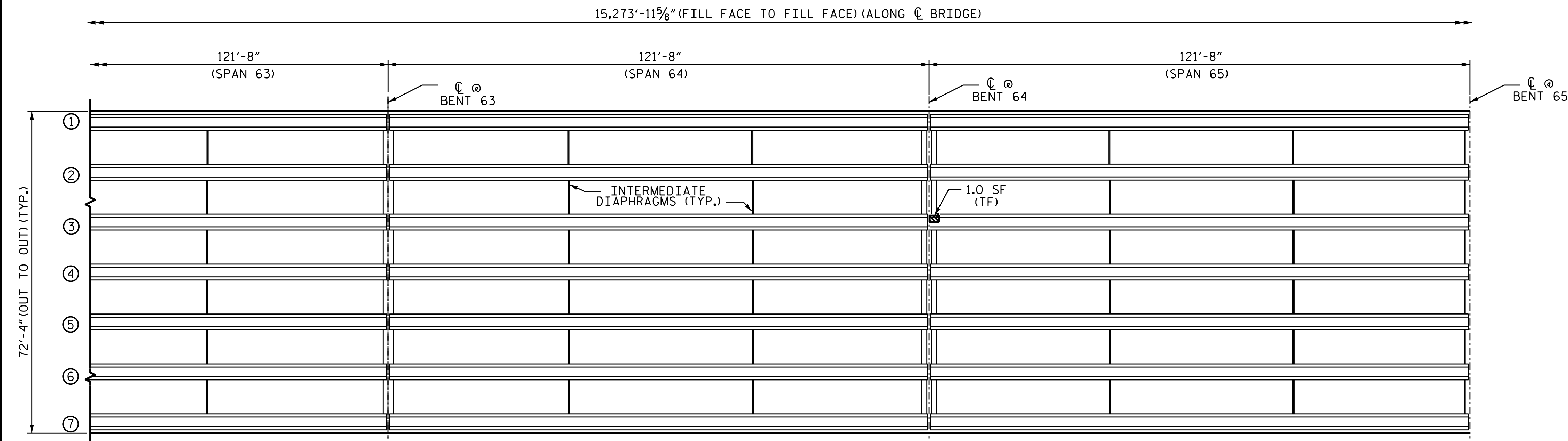
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-48
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 61 THRU 65				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	3.0	0.9		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

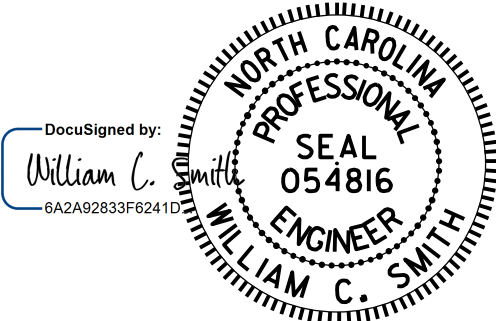
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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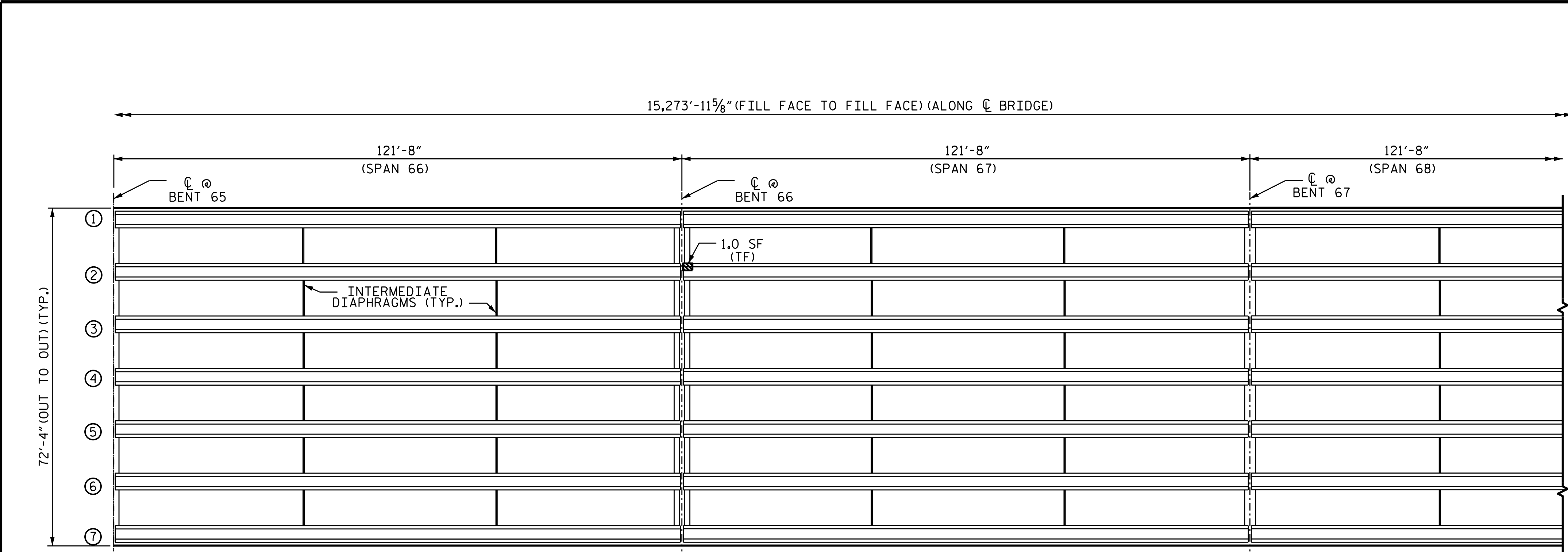
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CHECKED BY : W. C. SMITH DATE : 09/30/24

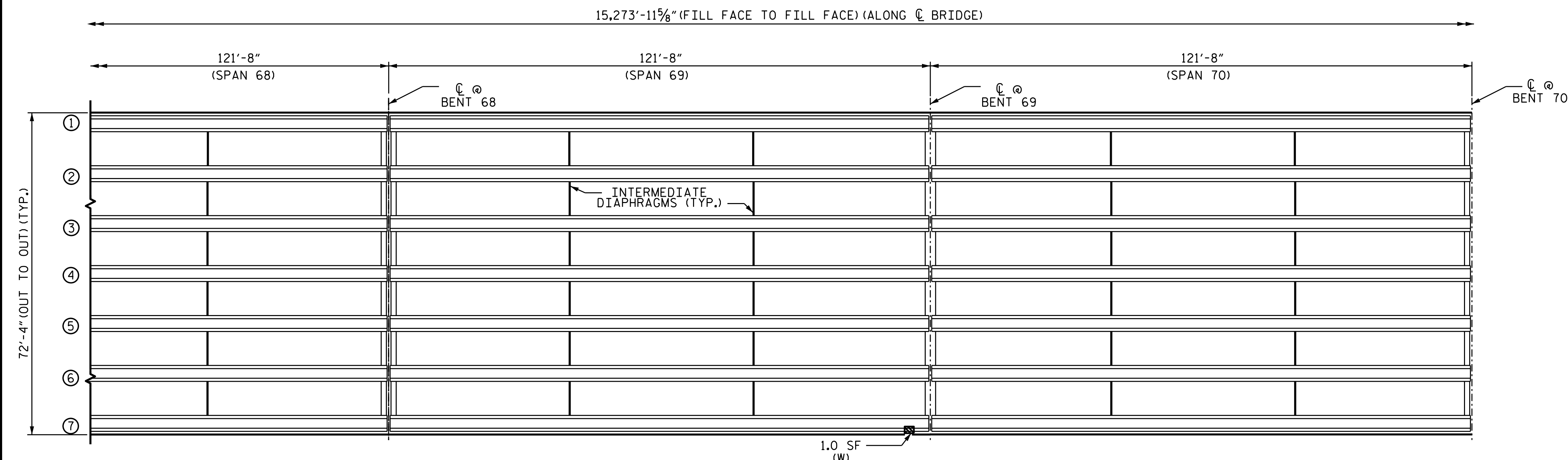
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-49
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 66 THRU 70				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	2.0	0.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

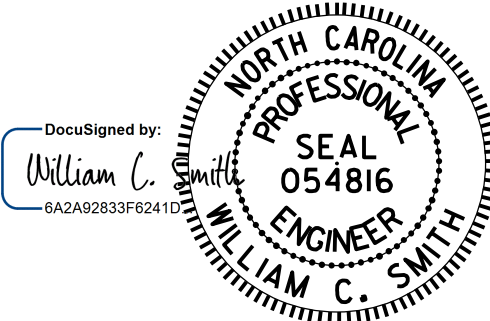
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 14 OF 29



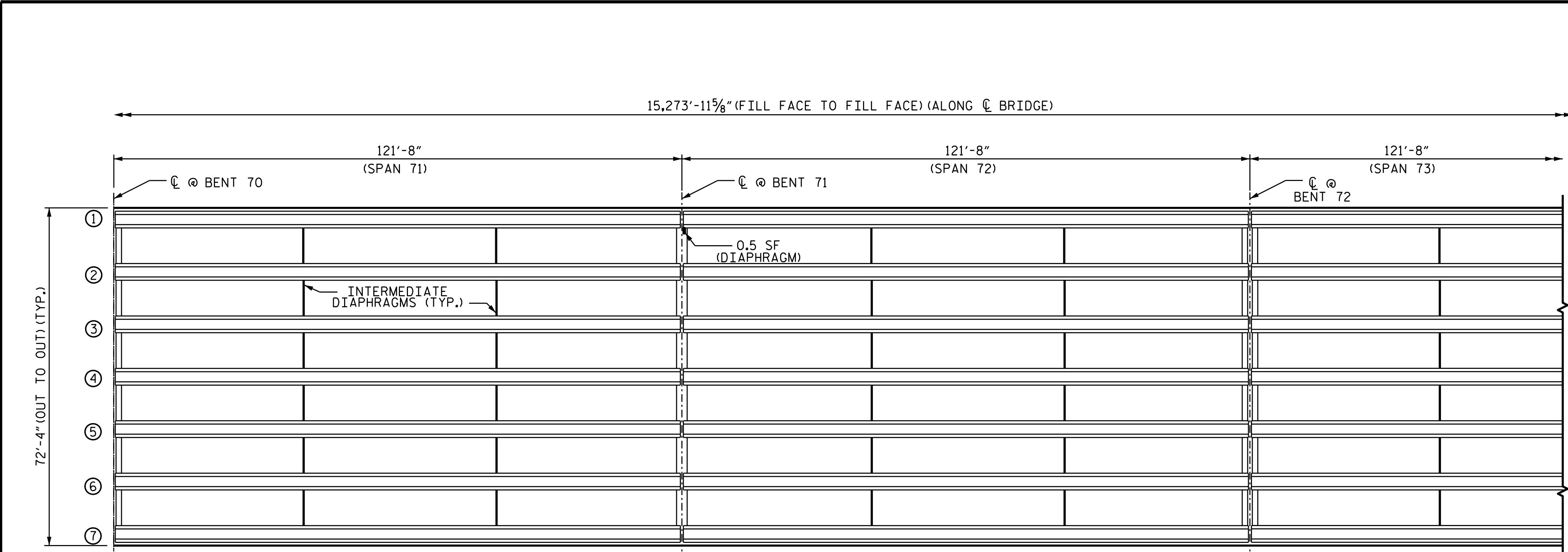
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CHECKED BY : W. C. SMITH DATE : 09/30/24

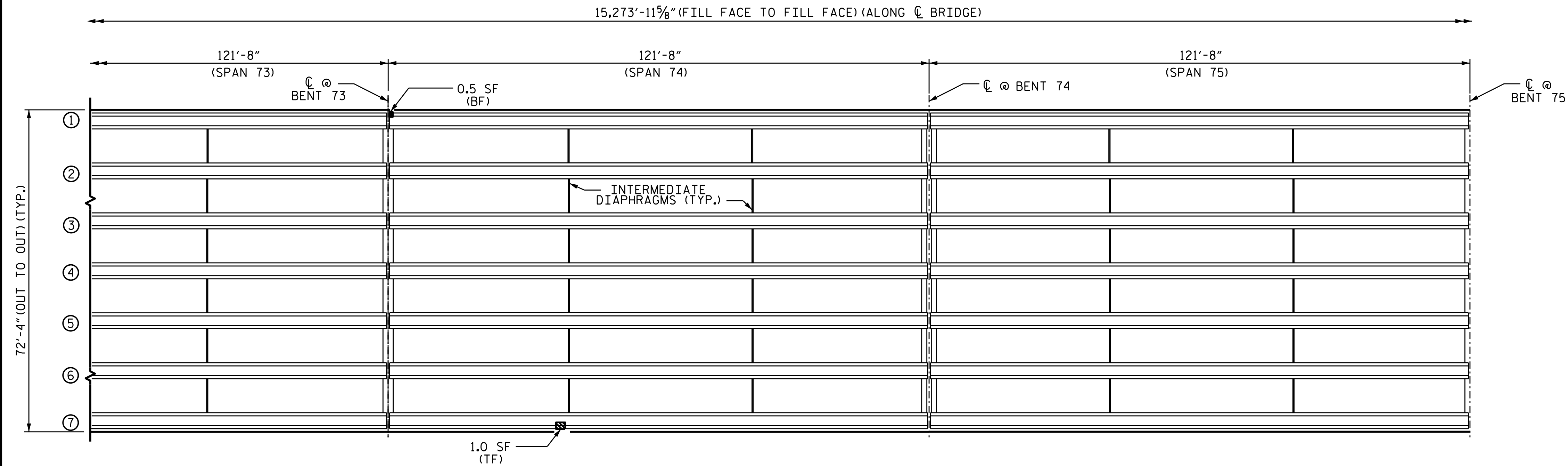
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-50
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 71 THRU 75				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	2.0	0.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

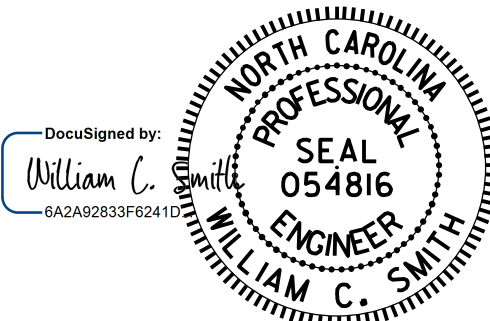
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 15 OF 29



11/21/2025

DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/26/24
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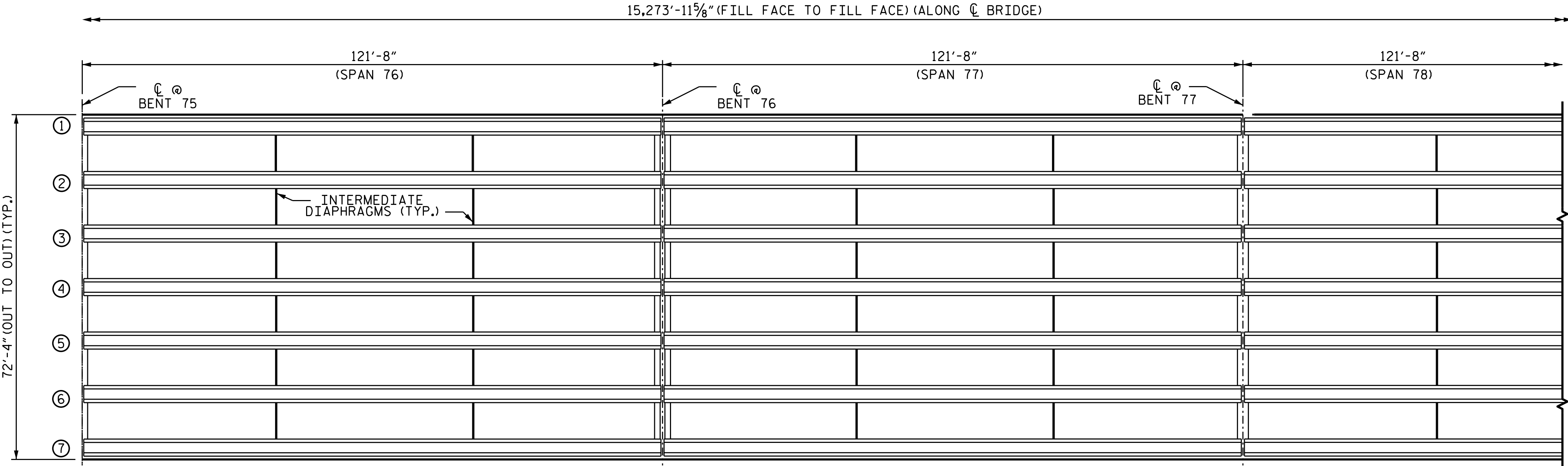
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-51
1			3			TOTAL SHEETS
2			4			217

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 76 THRU 80				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

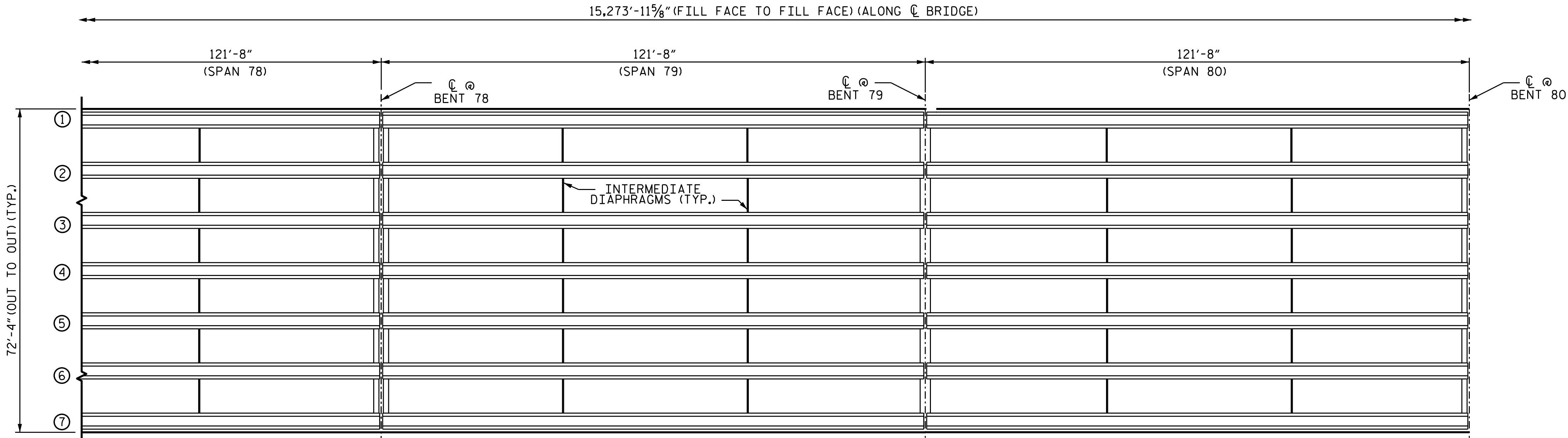
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.



PLAN
(UNDERSIDE OF DECK)

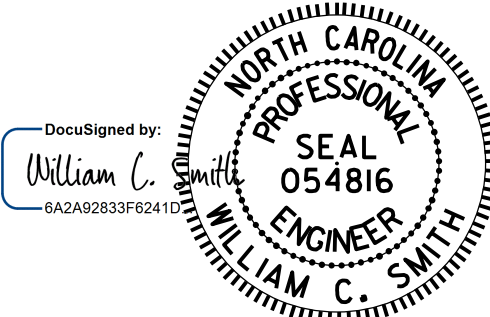


PLAN
(UNDERSIDE OF DECK)

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 16 OF 29

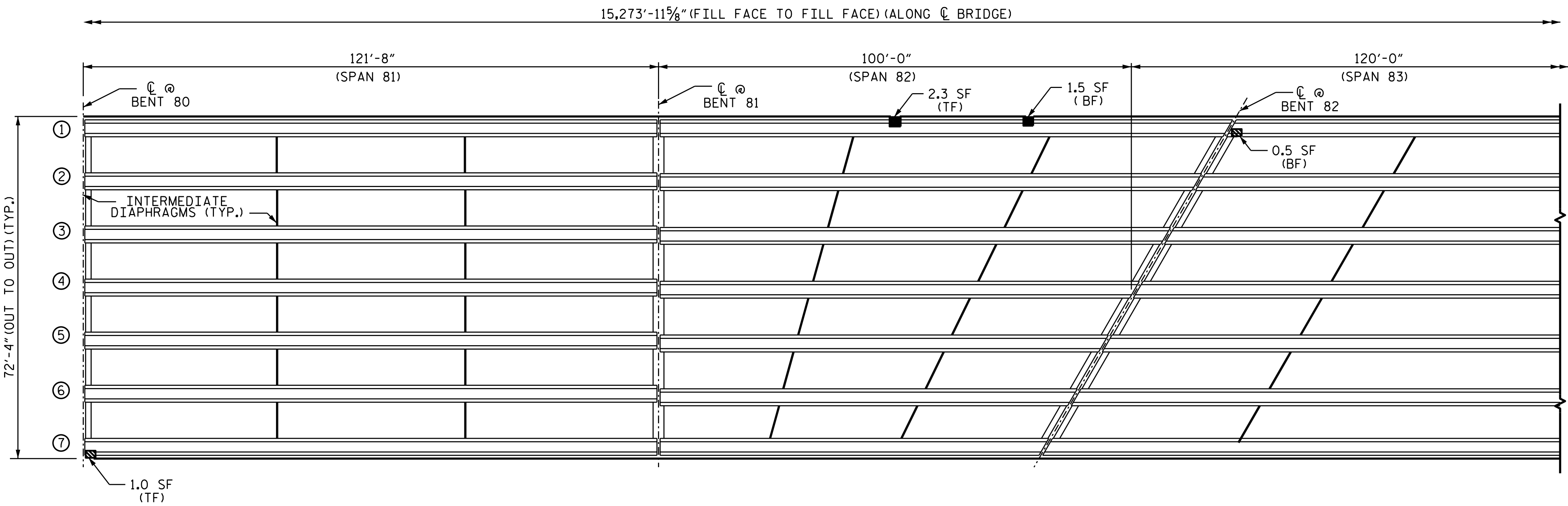


11/21/2025

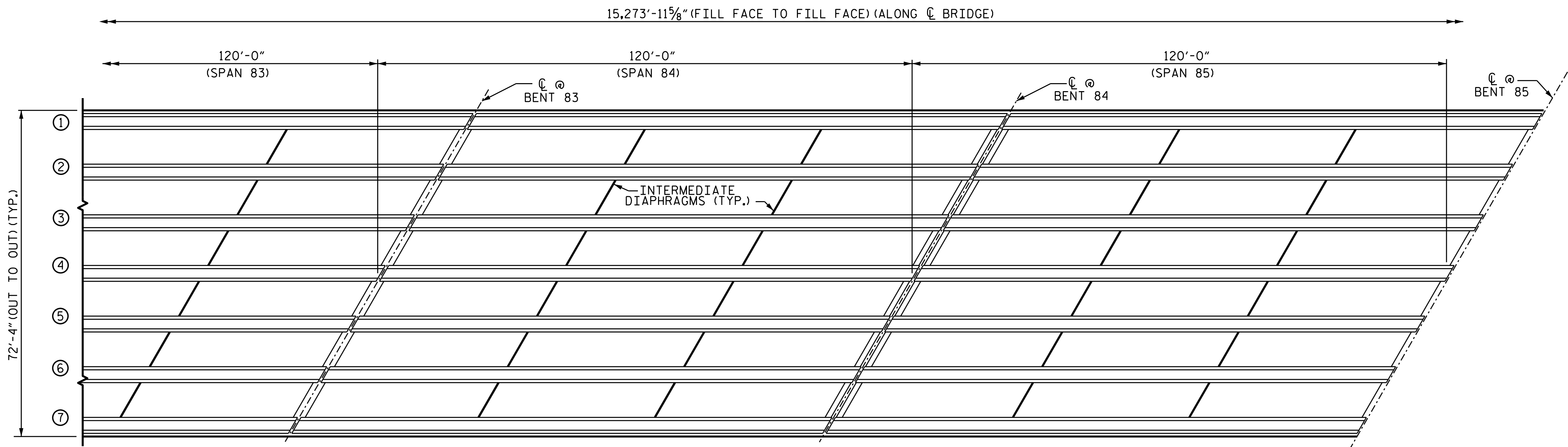
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-52
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 81 THRU 85				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	5.3	1.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

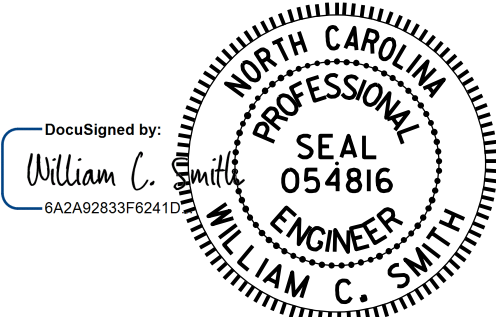
NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 17 OF 29

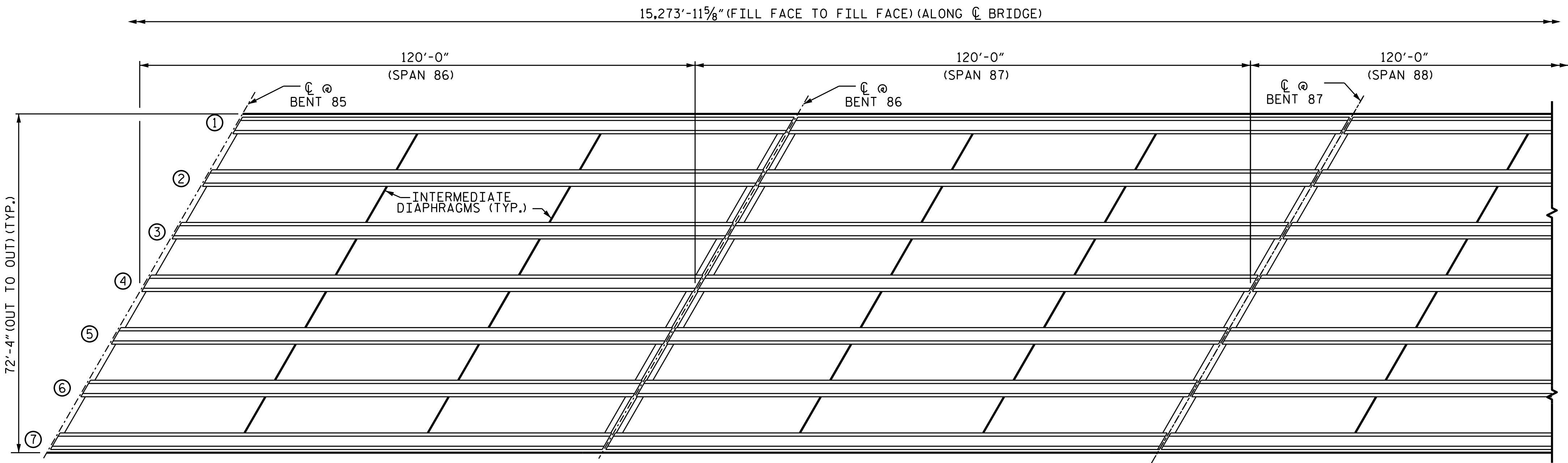


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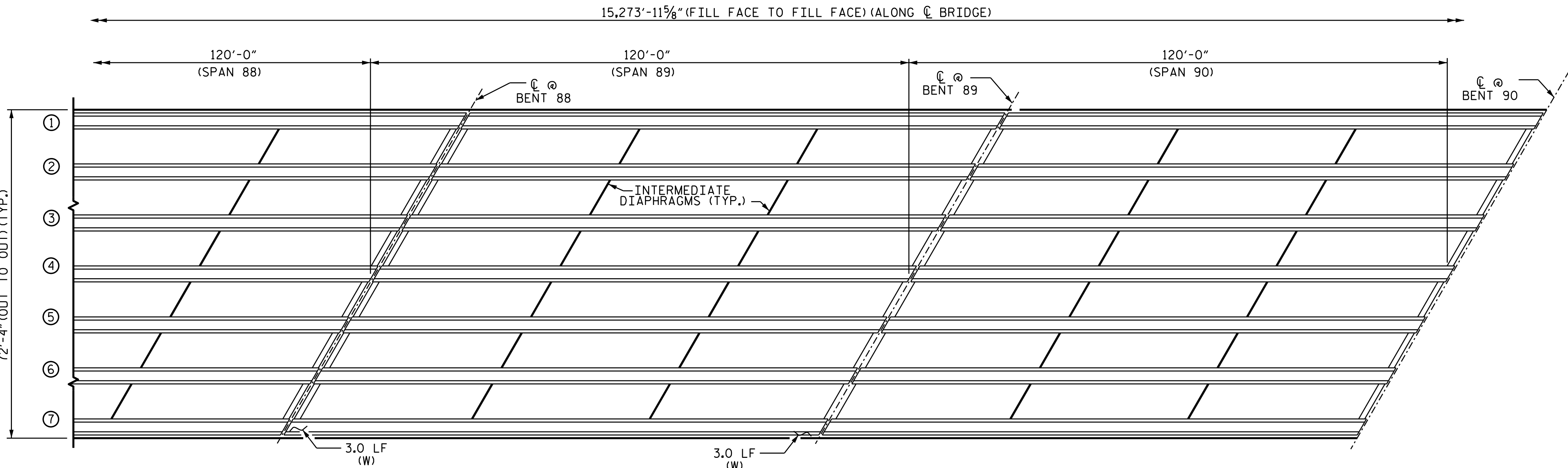
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-53
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 86 THRU 90				
SHOTCRETE REPAIRS	ESTIMATE		ACTUAL	
	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	0.0	0.0		
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	0.0	0.0		
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
	0.0			
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	6.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
	316.1			
GIRDER ENDS				

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

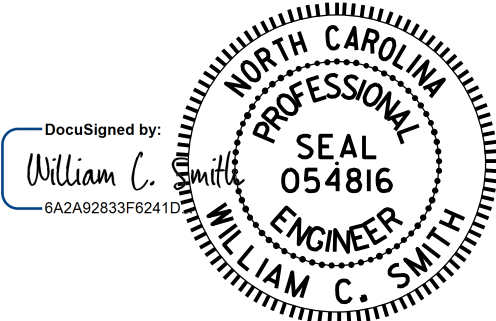
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 18 OF 29

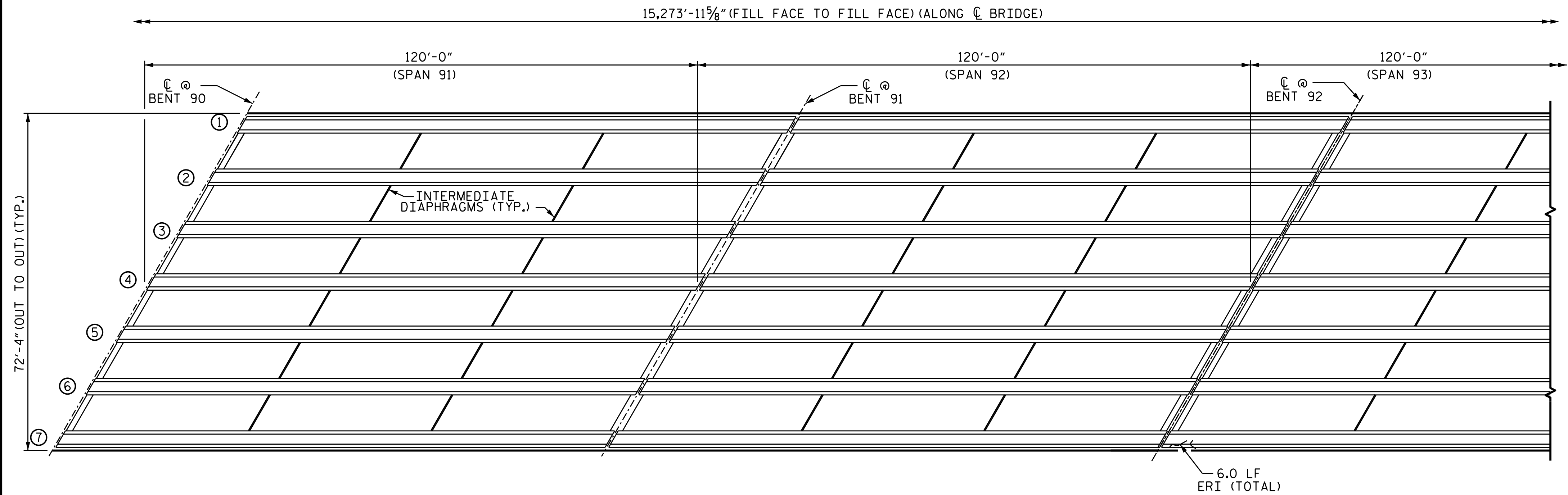


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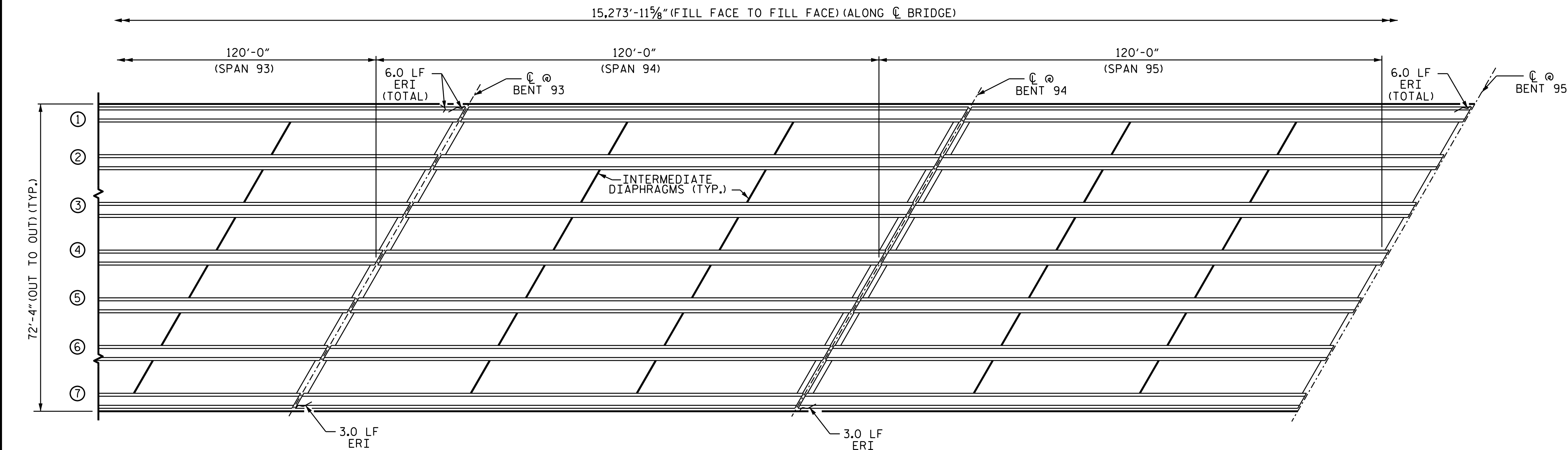
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1			3			S-54
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 91 THRU 95

	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	24.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

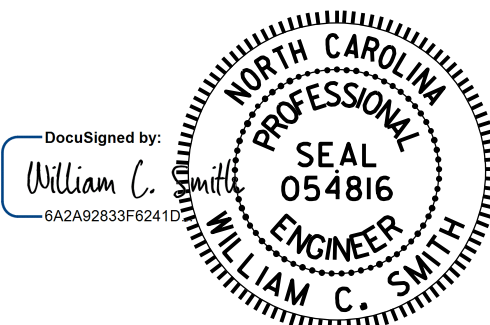
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 19 OF 29

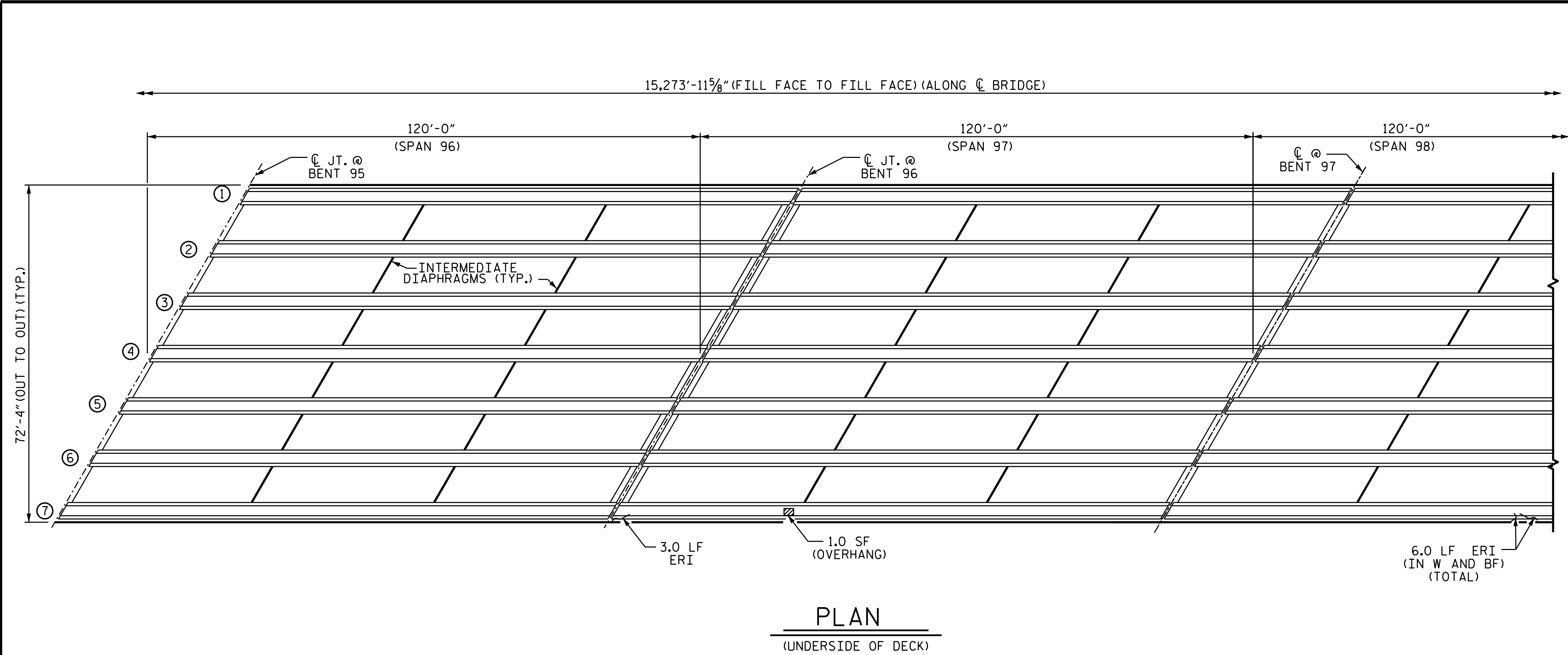


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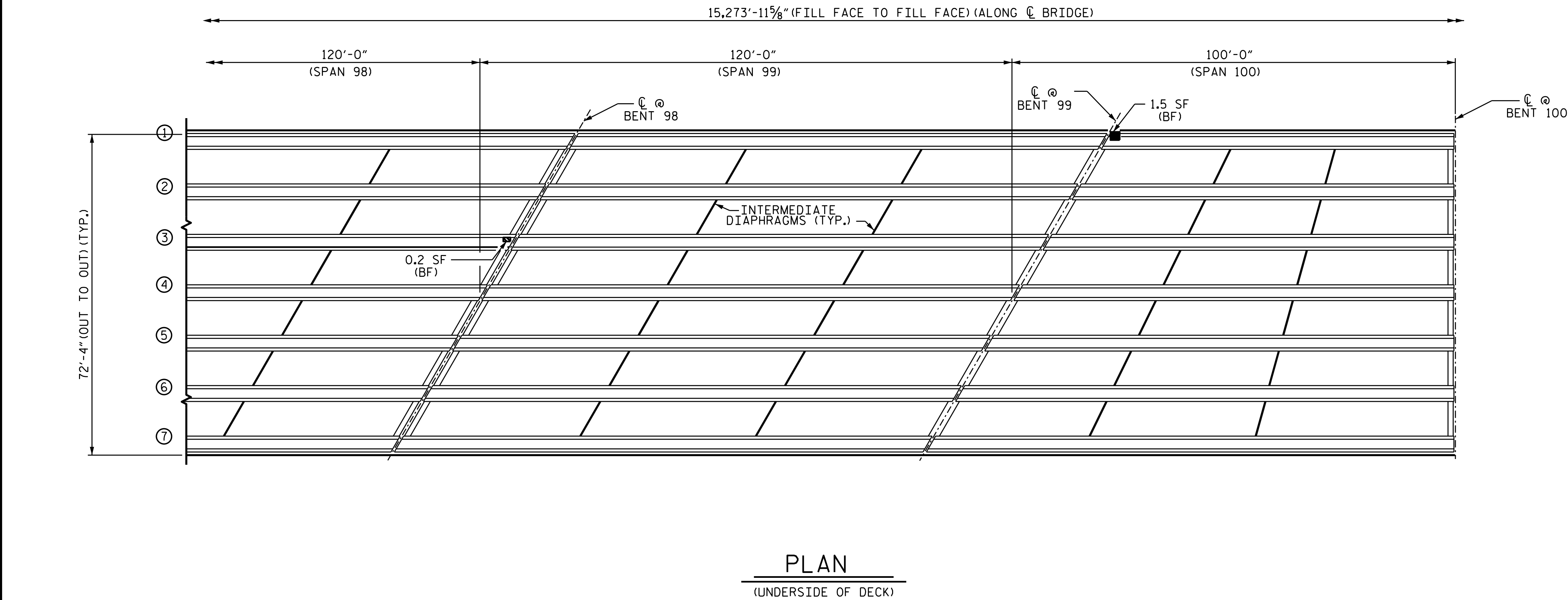
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-55
1			3			TOTAL SHEETS
2			4			217



REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 96 THRU 100				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	1.0	0.5		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	1.7	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	3.0			
PRESTRESSED CONCRETE GIRDER	6.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.



- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 20 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

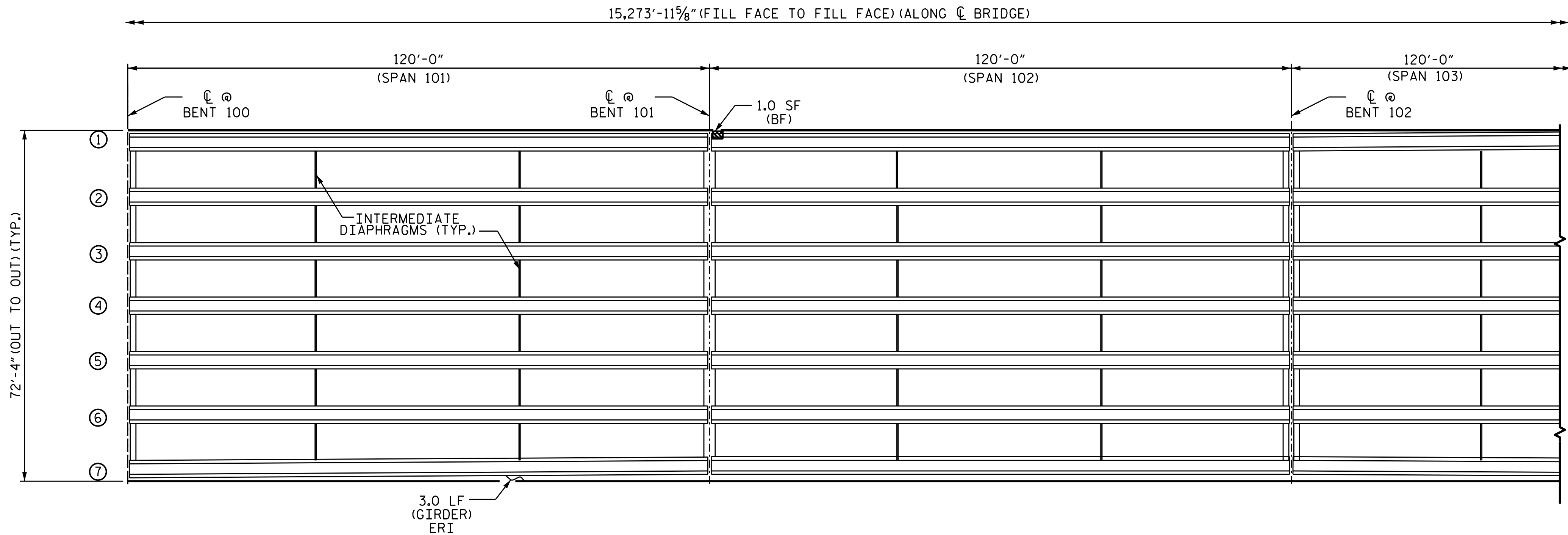
DECK UNDERSIDE
REPAIR
SPANS 96 THRU 100

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-56
1			3			TOTAL SHEETS
2			4			217

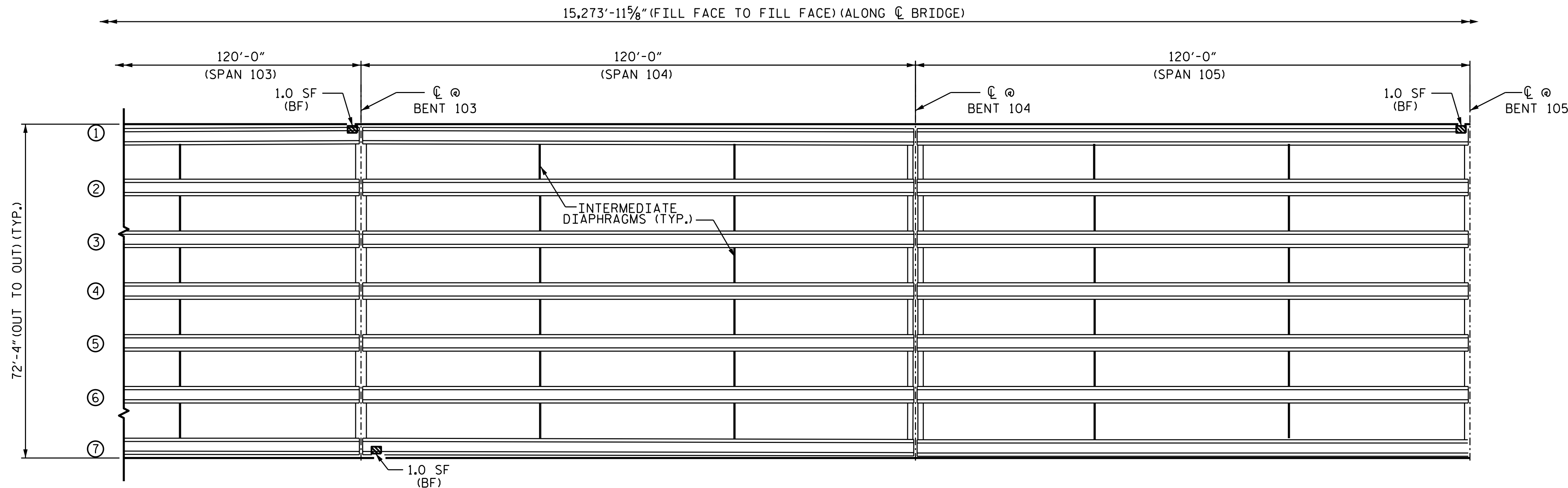
DocuSigned by:
William C. Smith
054816
NORTH CAROLINA
PROFESSIONAL
ENGINEER
11/21/2025

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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 101 THRU 105				
SHOTCRETE REPAIRS	ESTIMATE		ACTUAL	
	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	4.0	1.2		
PRESTRESSED CONCRETE GIRDER				
EPOXY RESIN INJECTION		ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK		0.0		
OVERHANG		0.0		
PRESTRESSED CONCRETE GIRDER		3.0		
EPOXY COATING		AREA SQ. FT.	AREA SQ. FT.	
GIRDER ENDS		316.1		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

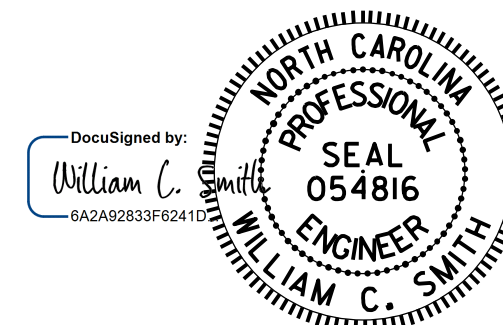
NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 21 OF 29

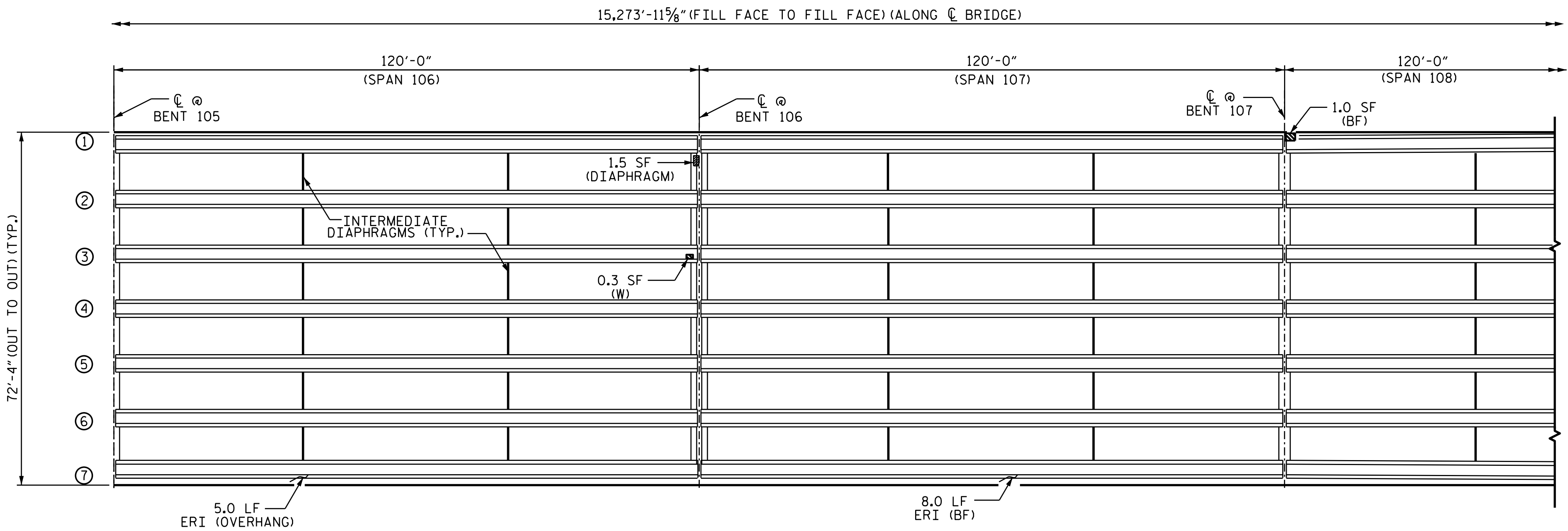


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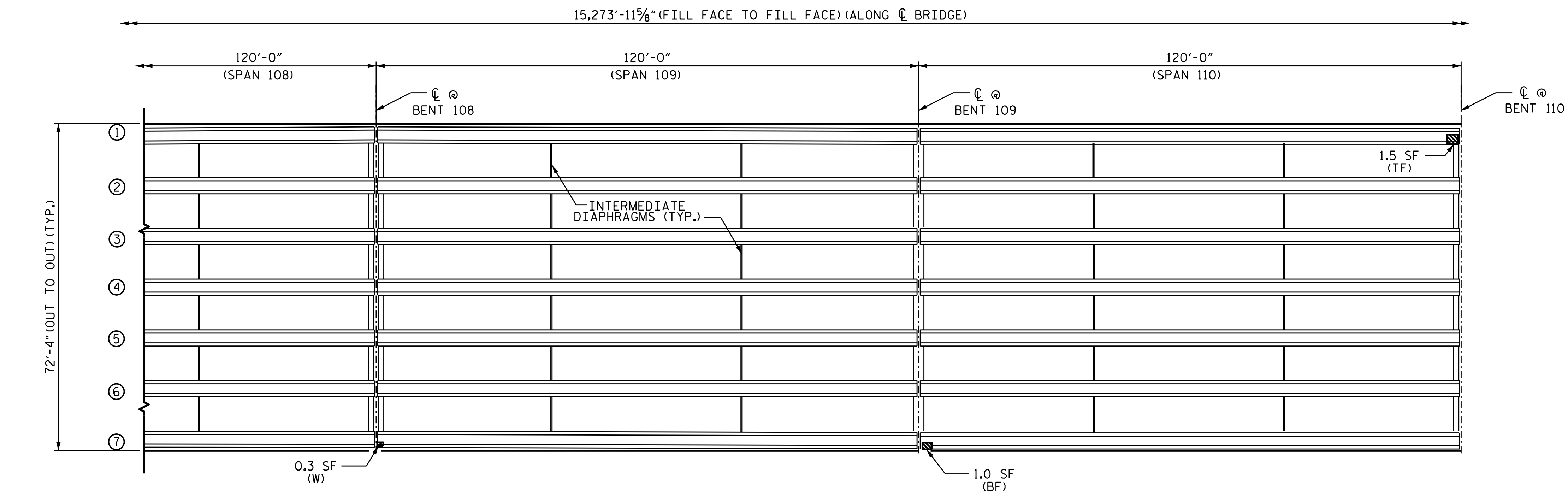
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-57
1			3			TOTAL SHEETS
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 106 THRU 110				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	1.5	0.8		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	4.1	2.1		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	5.0			
PRESTRESSED CONCRETE GIRDER	8.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	316.1			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

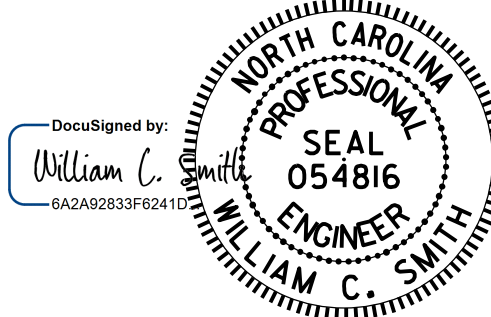
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 22 OF 29



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 106 THRU 110					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					TOTAL SHEETS 217

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CHECKED BY : W. C. SMITH DATE : 09/30/24

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 111 AND 112				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	2.5	0.7		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	3.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	126.4			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

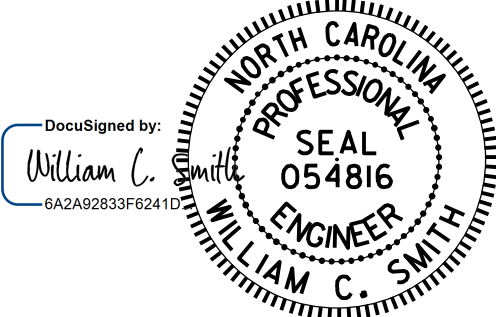
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 23 OF 29

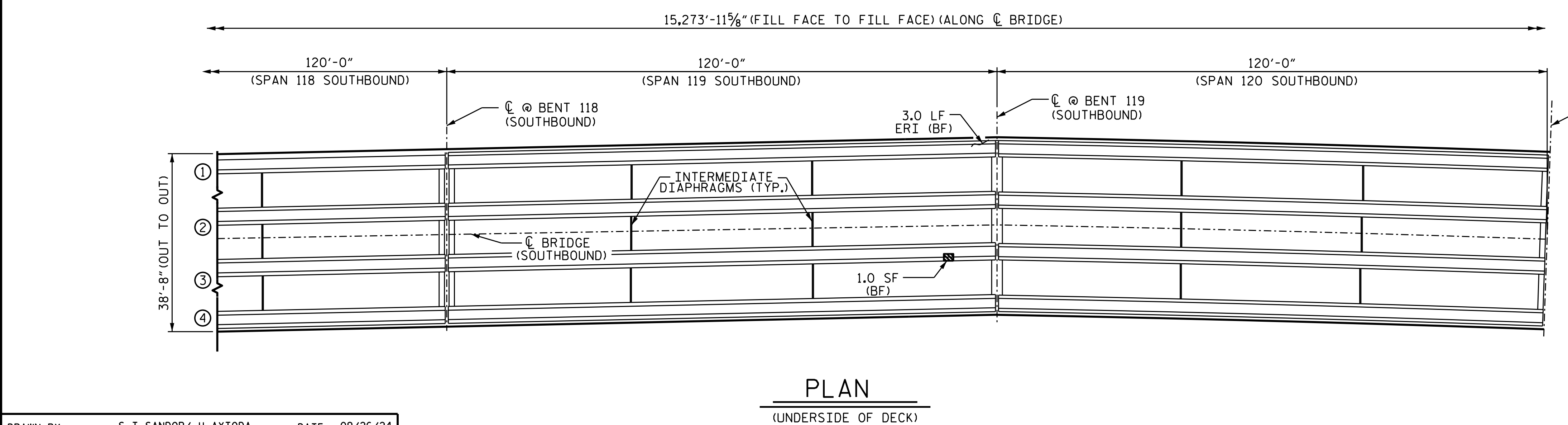
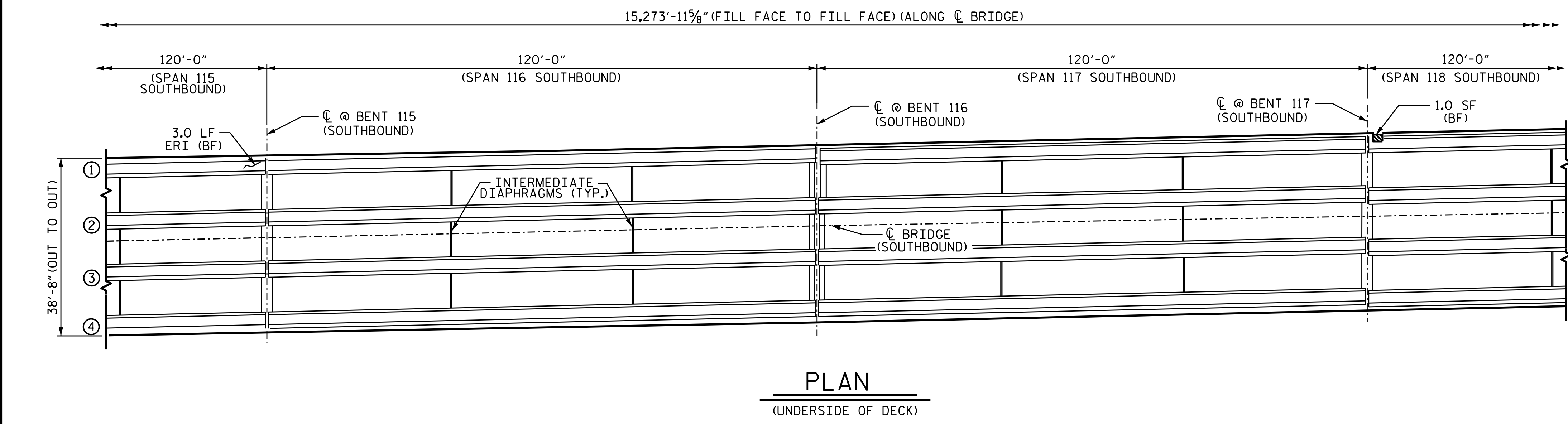
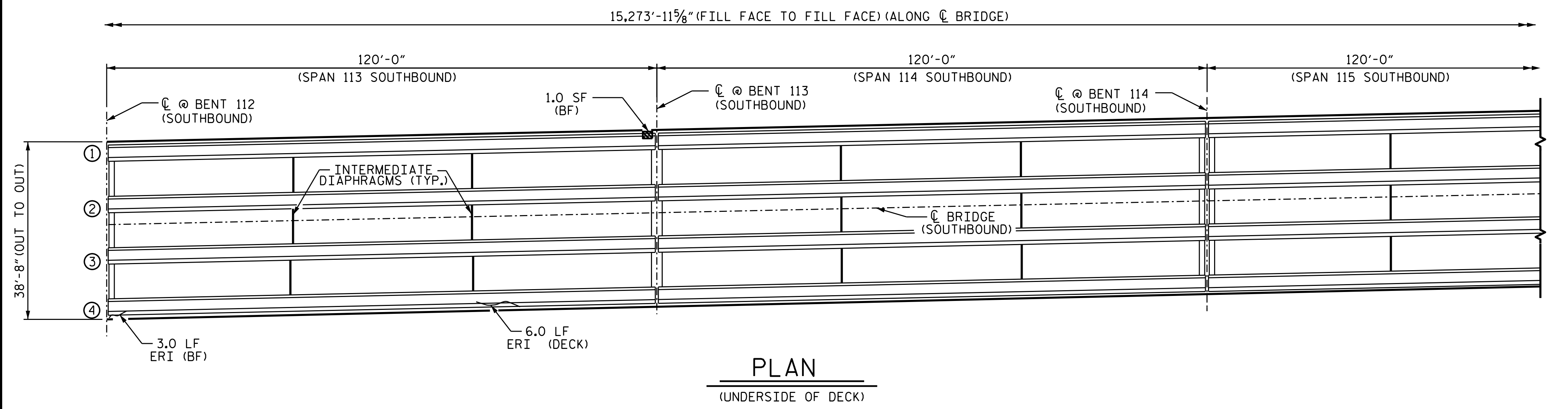


11/21/2025

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 111 AND 112					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					S-59
217					

DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/26/24
CHECKED BY : W. C. SMITH DATE : 09/30/24

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FINAL UNLESS ALL
SIGNATURES COMPLETED



REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 113 THRU 120				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	3.0	0.9		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	6.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	9.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	289.0			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 24 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE
REPAIR
SPANS 113 THRU 120
SOUTHBOUND

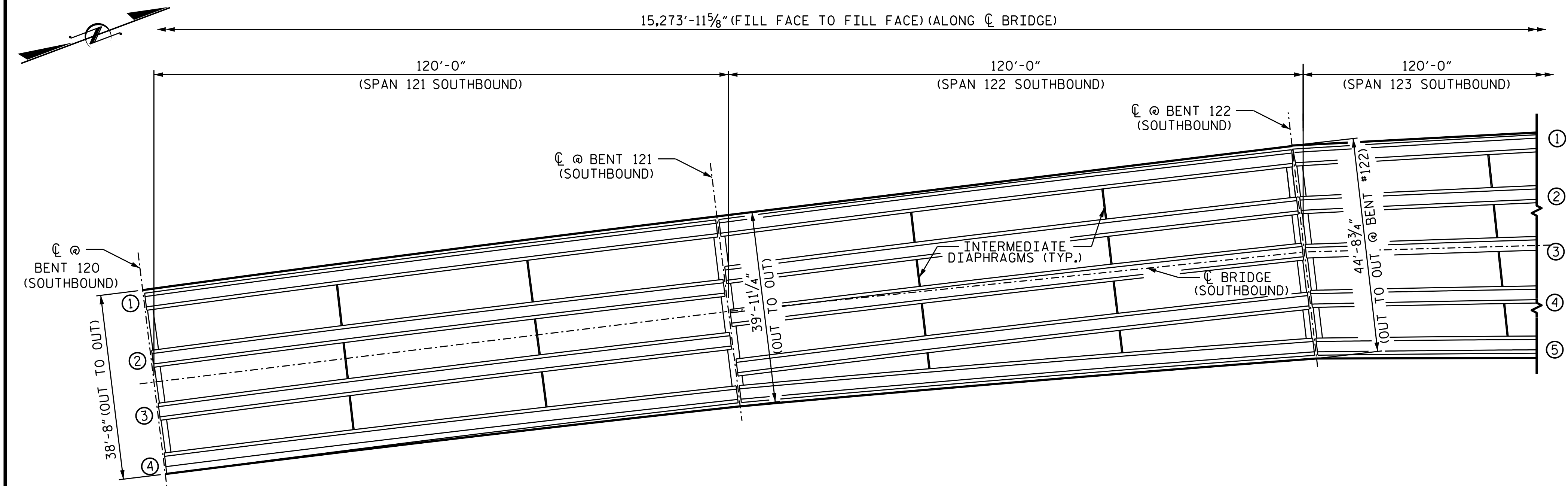
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-60
1			3			TOTAL SHEETS
2			4			217

DocuSigned by:
William C. Smith
054816
NORTH CAROLINA
PROFESSIONAL
ENGINEER
WILLIAM C. SMITH

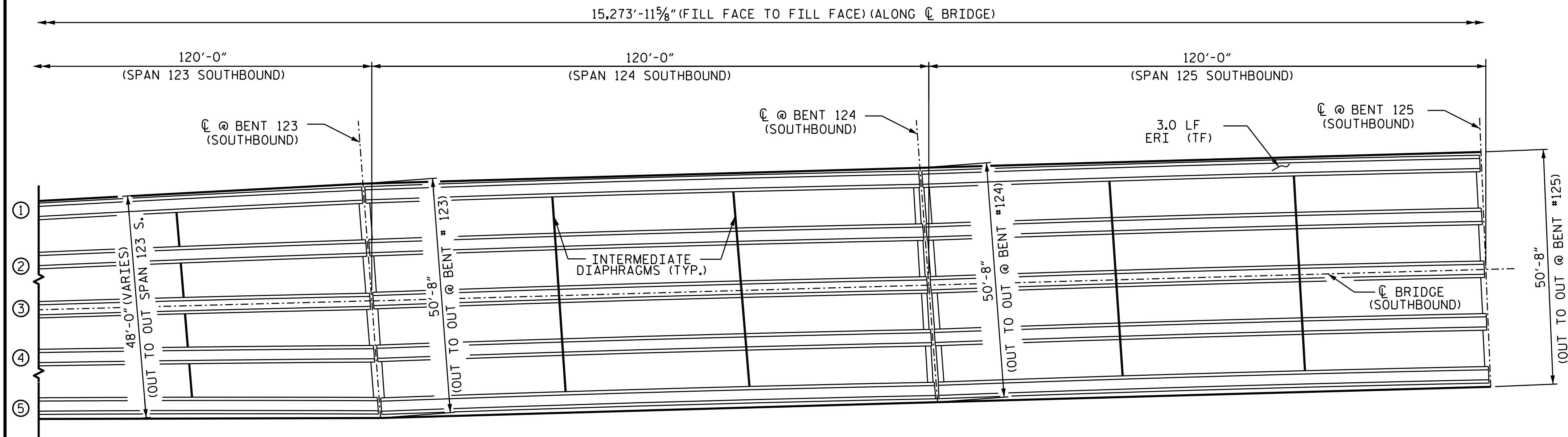
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DOCUMENT NOT CONSIDERED
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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 121 THRU 125				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	3.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	216.8			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

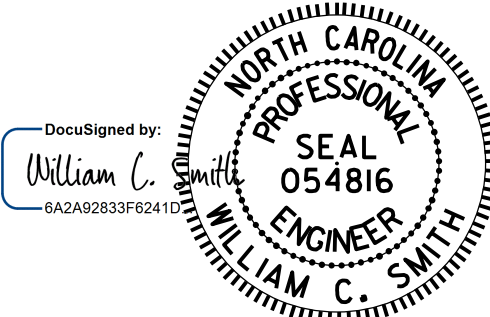
NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 25 OF 29



11/21/2025

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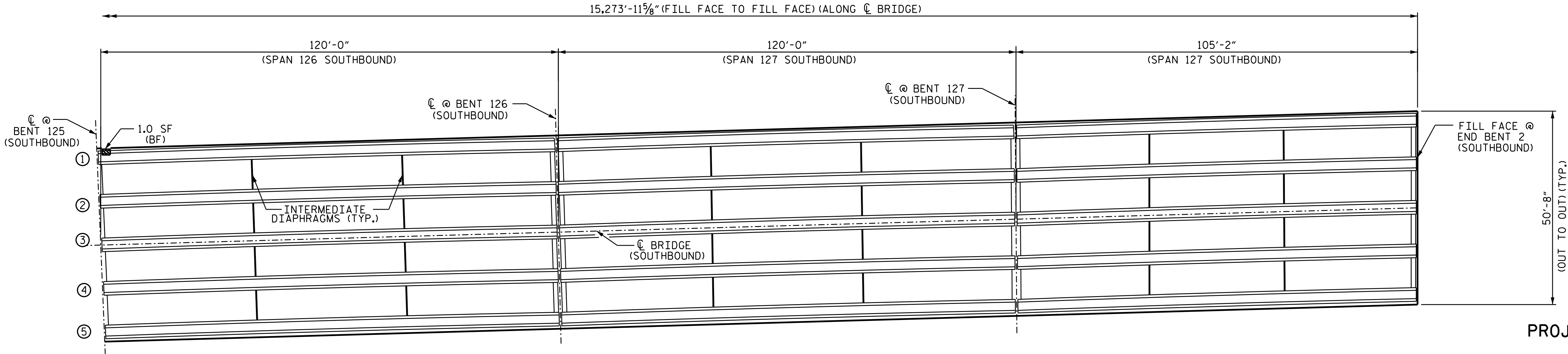
DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-61
2			4			217

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

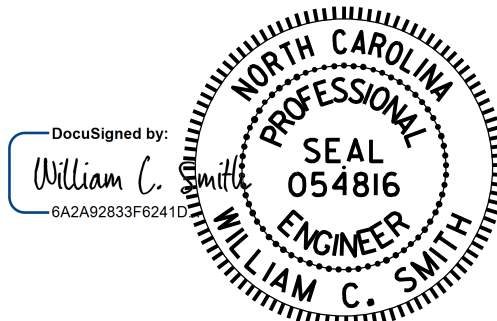
REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 126 THRU 128				
SHOTCRETE REPAIRS	ESTIMATE		ACTUAL	
	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	UNDERSIDE OF DECK	0.0	0.0	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	UNDERSIDE OF DECK	0.0	0.0	
	OVERHANG	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
	PRESTRESSED CONCRETE GIRDER	1.0	0.3	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
	UNDERSIDE OF DECK	0.0		
	OVERHANG	0.0		
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.		
	GIRDER ENDS	135.5		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS



PLAN
(UNDERSIDE OF DECK)

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER



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PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 26 OF 29

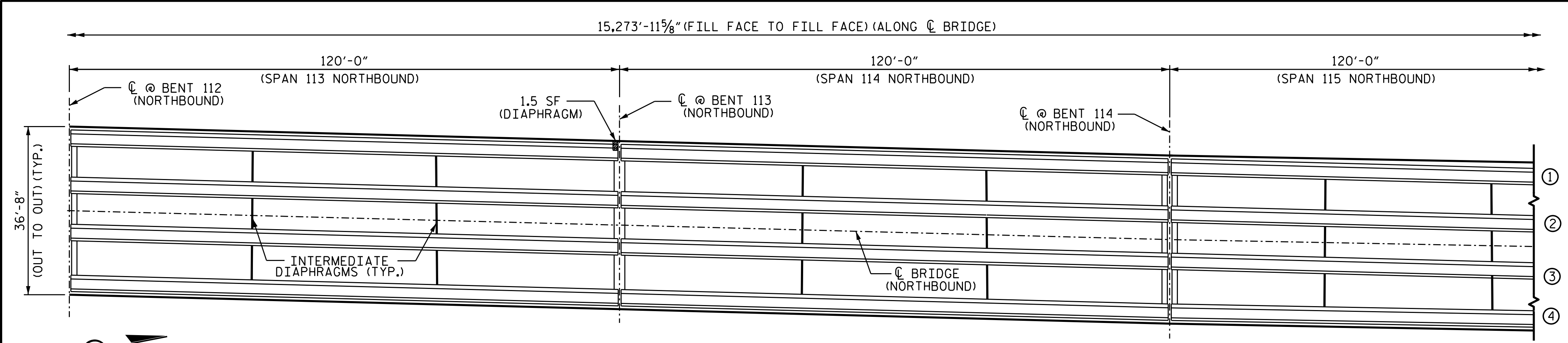
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE
REPAIR
SPANS 126 THRU 128
SOUTHBOUND

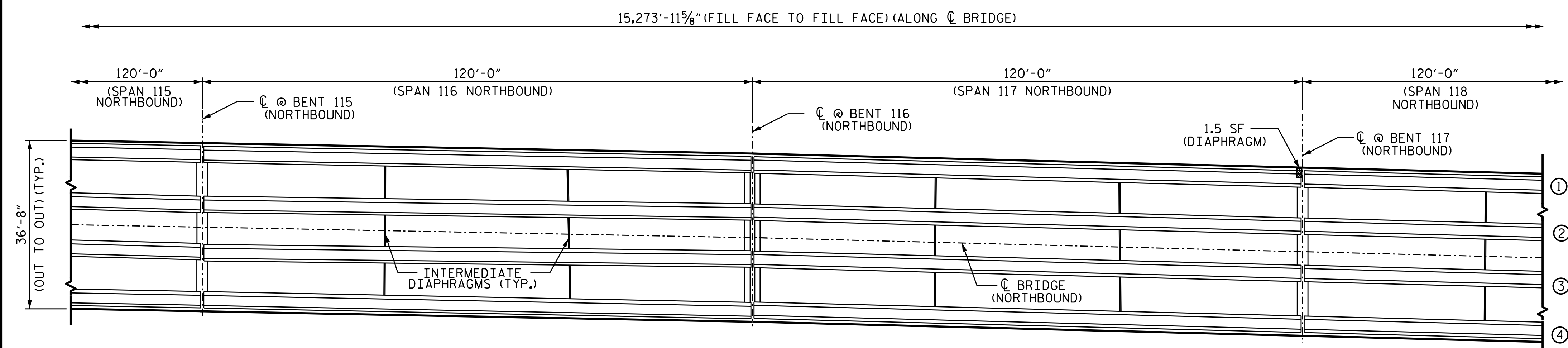
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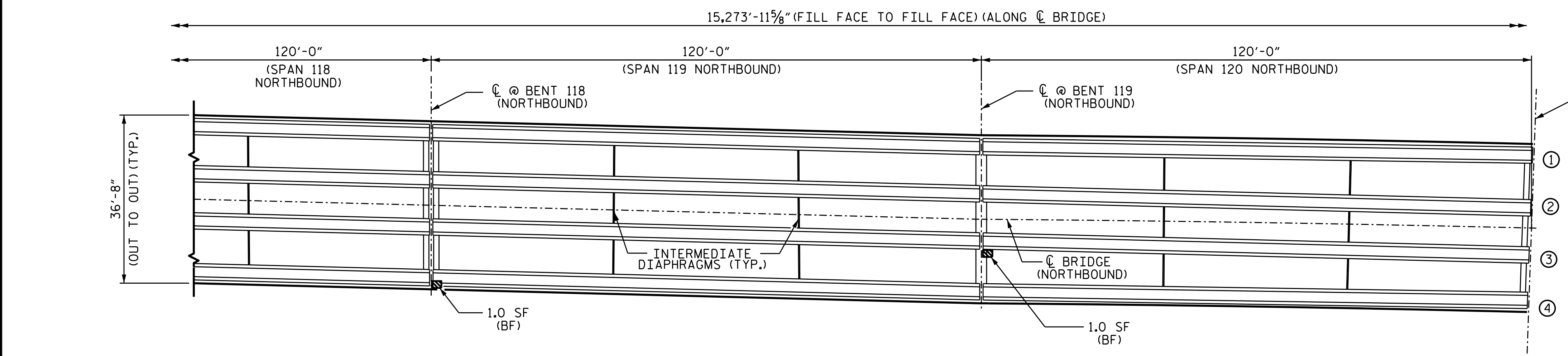
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-62
2			4			217



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 113 THRU 120				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	3.0	1.5		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	2.0	0.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	289.0			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

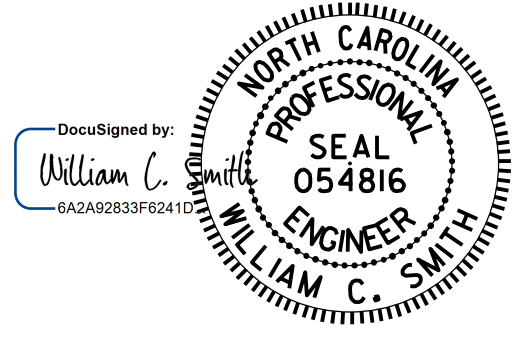
TOP OF FLANGE
- BF

BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

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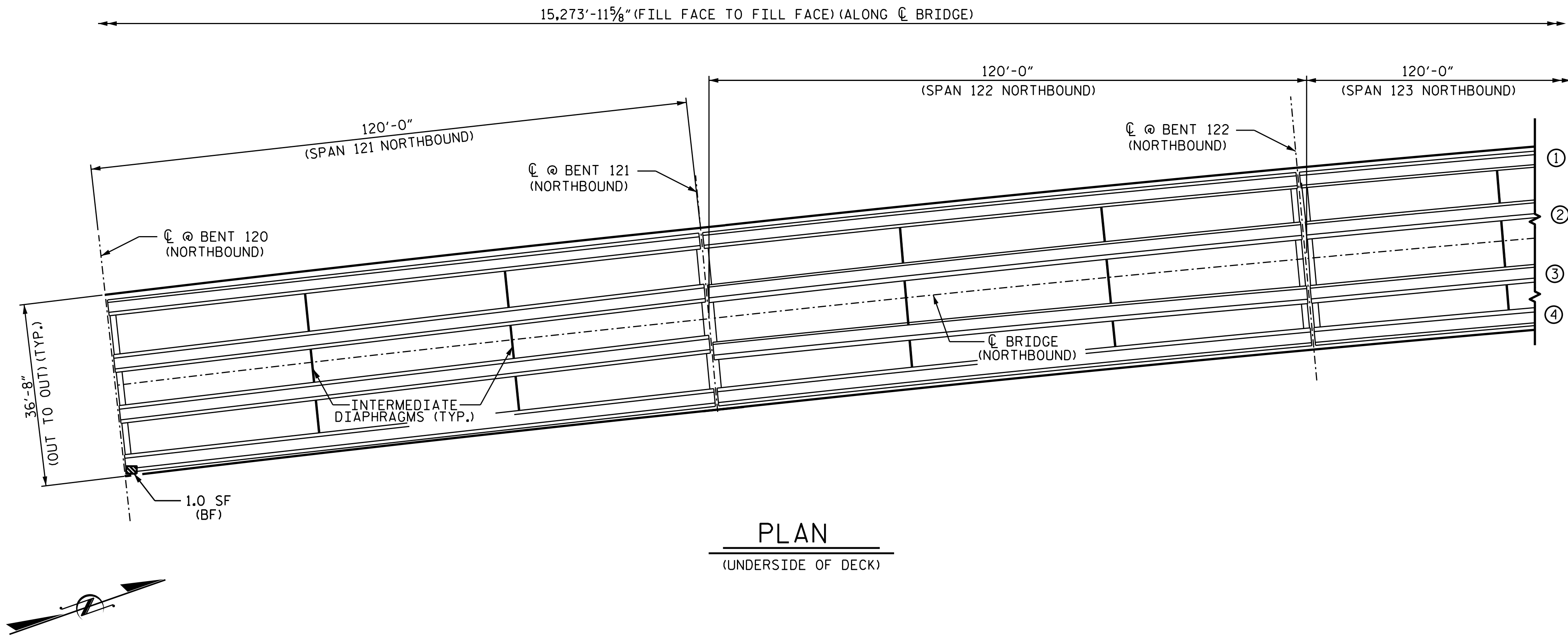


REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-63
1			3			TOTAL SHEETS
2			4			217

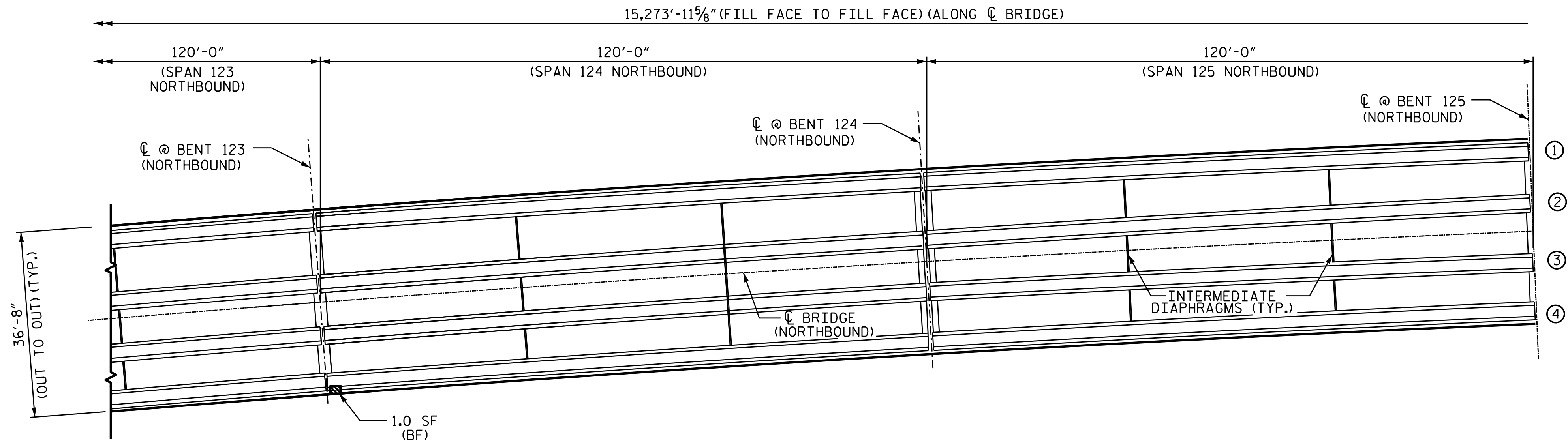
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PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353
SHEET 27 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
DECK UNDERSIDE REPAIR
SPANS 113 THRU 120 NORTHBOUND



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

REPAIR QUANTITY TABLE				
DECK UNDERSIDE REPAIRS - SPANS 121 THRU 125				
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	2.0	0.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	180.6			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

NOTES

FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI

EPOXY RESIN INJECTIONS
- TF

TOP OF FLANGE
- BF

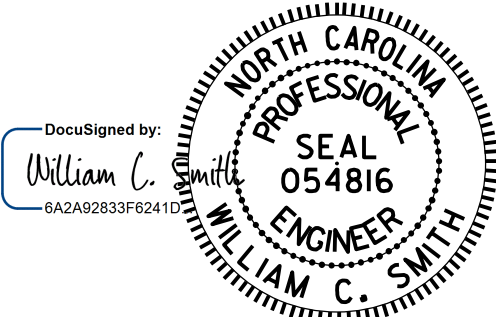
BOTTOM OF FLANGE
- W

WEB
- ①

GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 28 OF 29



11/21/2025

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-64
2			4			217

NOTES

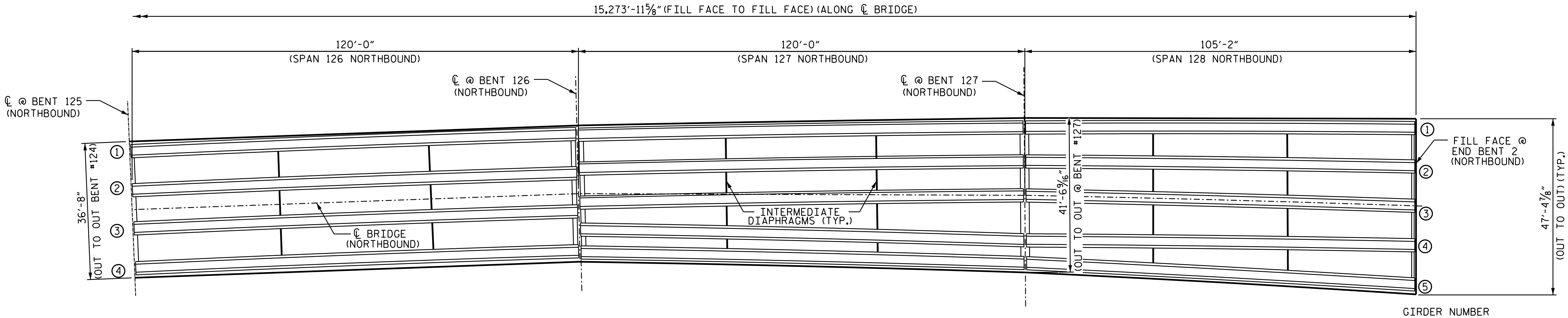
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 126 THRU 128

	ESTIMATE		ACTUAL	
	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
SHOTCRETE REPAIRS				
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG	0.0	0.0		
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDER	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.		ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDER	0.0			
EPOXY COATING	AREA SQ. FT.		AREA SQ. FT.	
GIRDER ENDS	126.4			

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, EXCEPT ON PRESTRESSED CONCRETE GIRDERS

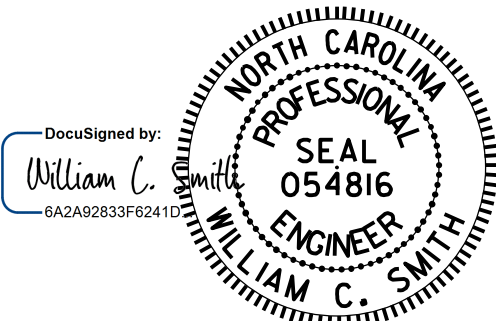


PLAN
(UNDERSIDE OF DECK)

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- ① GIRDER NUMBER

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 29 OF 29

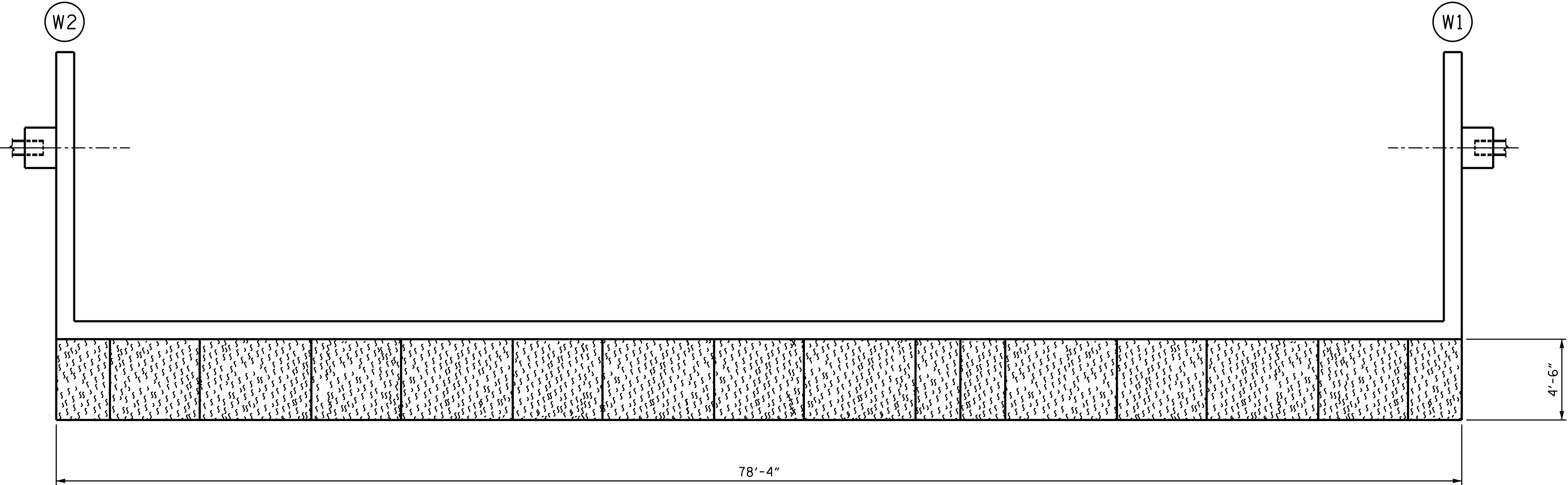


11/21/2025

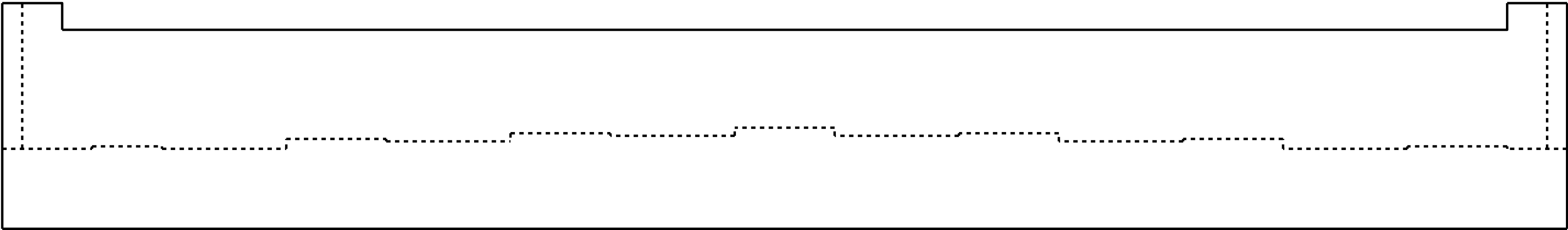
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CHECKED BY : W. C. SMITH DATE : 09/30/24

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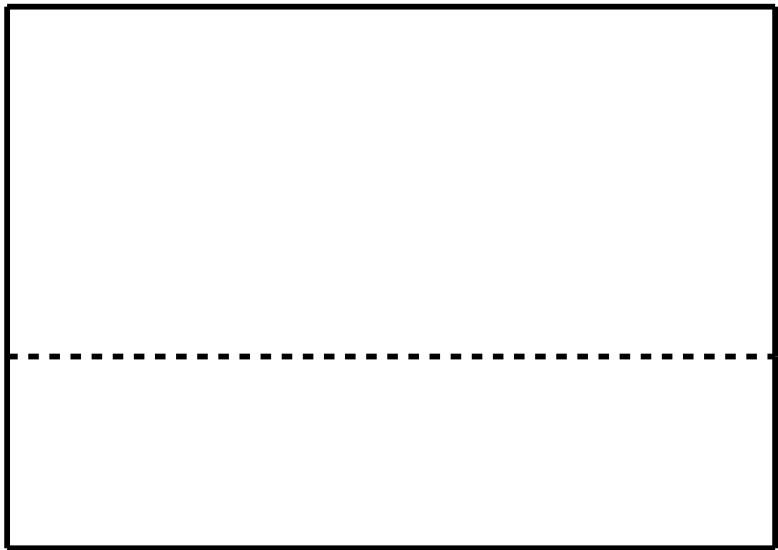
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK UNDERSIDE REPAIR SPANS 126 THRU 128 NORTHBOUND					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					S-65
					217



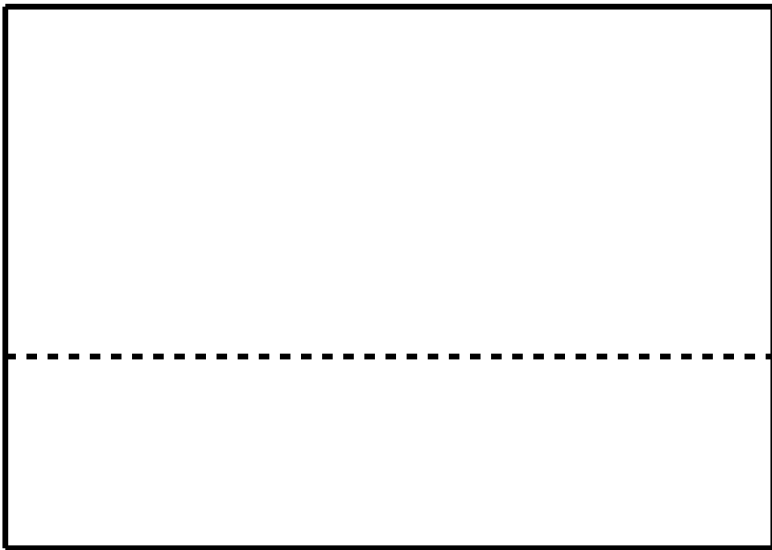
PLAN



ELEVATION



FRONT VIEW OF W2



FRONT VIEW OF W1






REPAIR QUANTITY TABLE				
END BENT 1	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		340.2		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

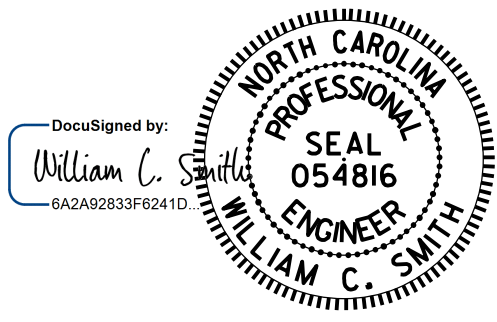
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

STEEL PILES NOT VISIBLE AT TIME OF INSPECTION.

-  SHOTCRETE REPAIR
-  CONCRETE REPAIR
-  EPOXY RESIN INJECTION
-  PILE
-  EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 1 OF 3

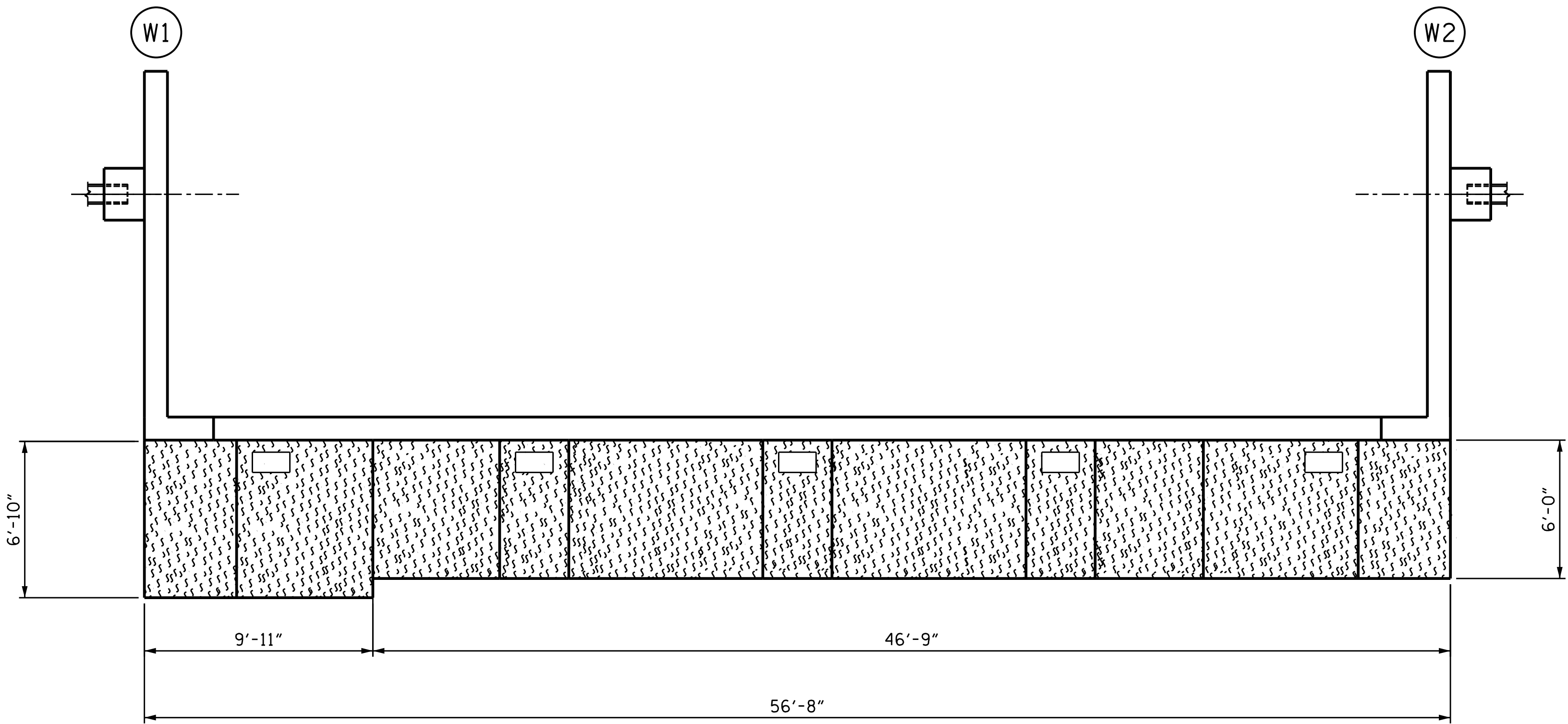


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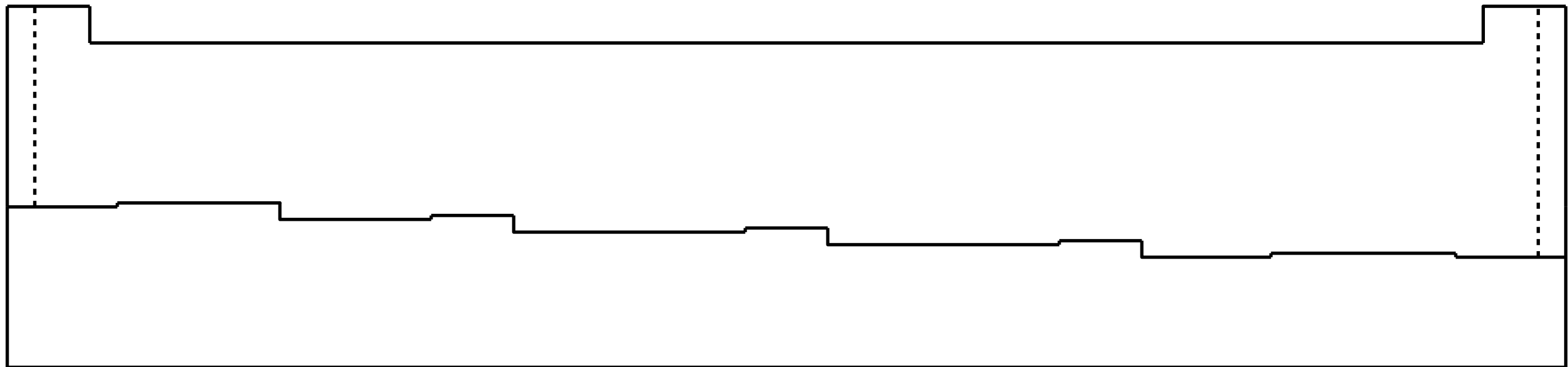
DRAWN BY : S. T. SANDOR DATE : 5/01/24
CHECKED BY : W. C. SMITH DATE : 5/07/24

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-66
2			4			217

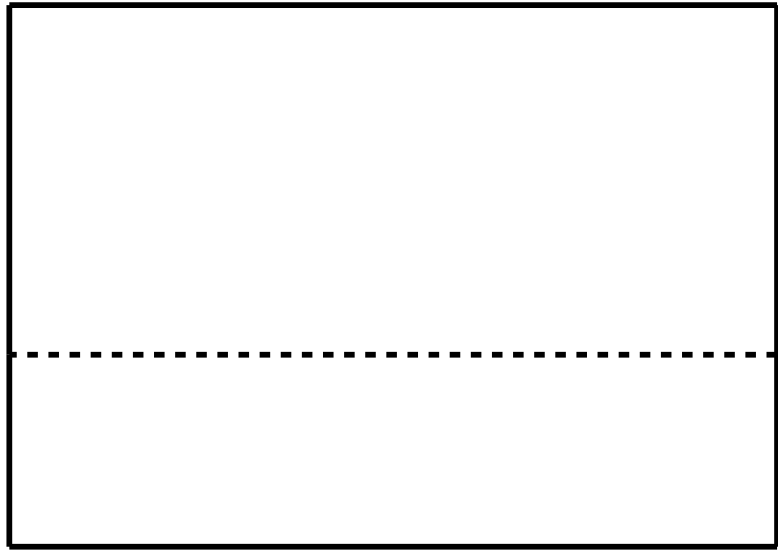
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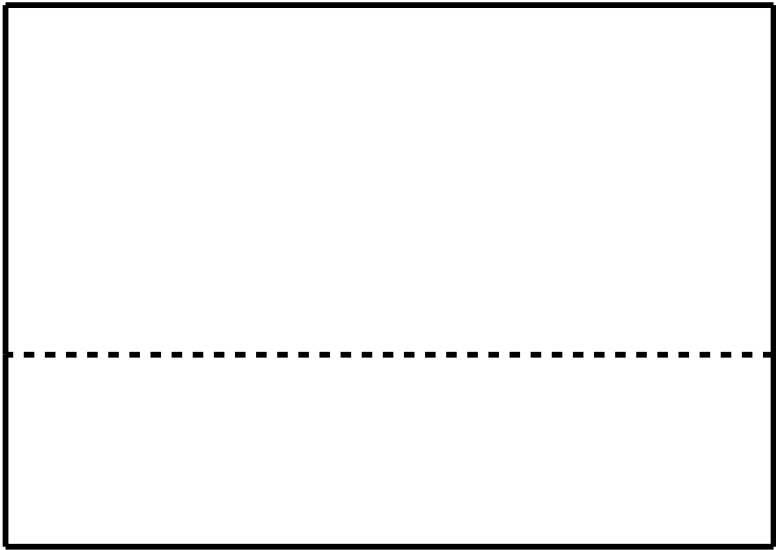
PLAN



ELEVATION



FRONT VIEW OF W1



FRONT VIEW OF W2

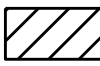
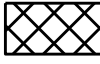


REPAIR QUANTITY TABLE				
END BENT 2 (SOUTHBOUND)	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		339.5		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

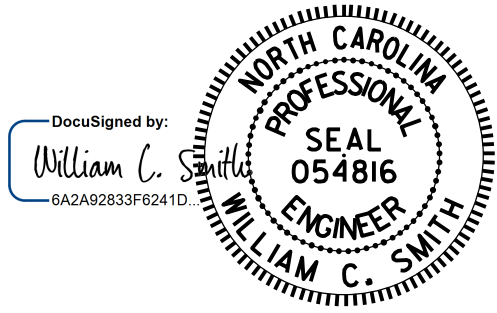
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

STEEL PILES NOT VISIBLE AT TIME OF INSPECTION.

-  SHOTCRETE REPAIR
-  CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
-  PILE
-  EPOXY COATING

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SHEET 2 OF 3

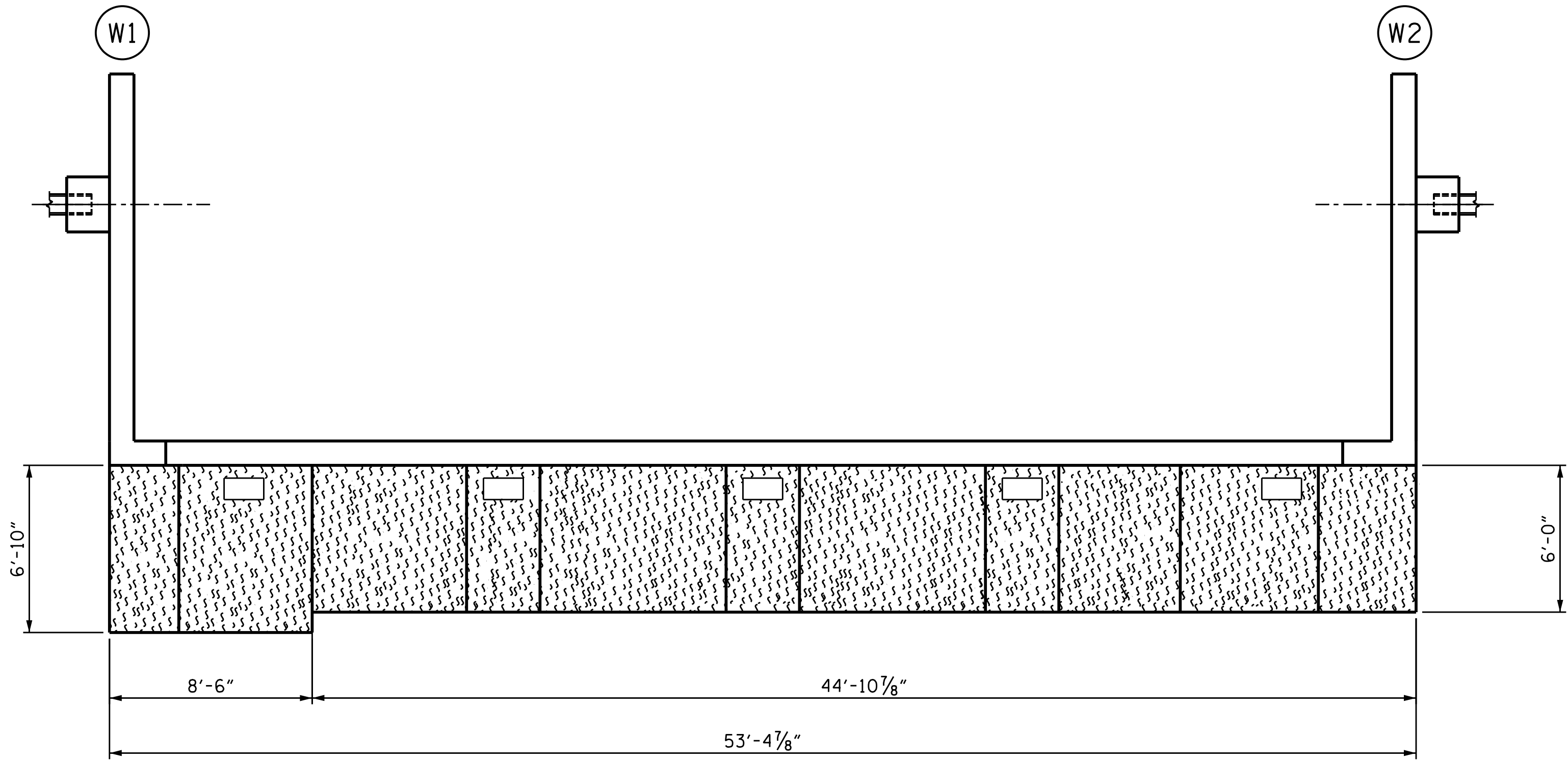


11/21/2025

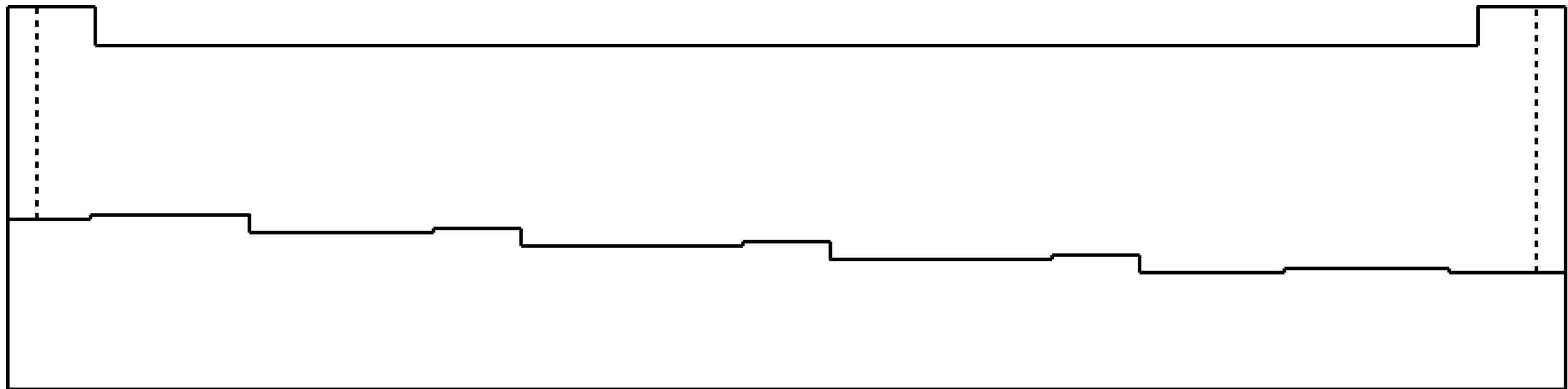
DRAWN BY : S. T. SANDOR DATE : 5/01/24
CHECKED BY : W. C. SMITH DATE : 5/07/24

DOCUMENT NOT CONSIDERED
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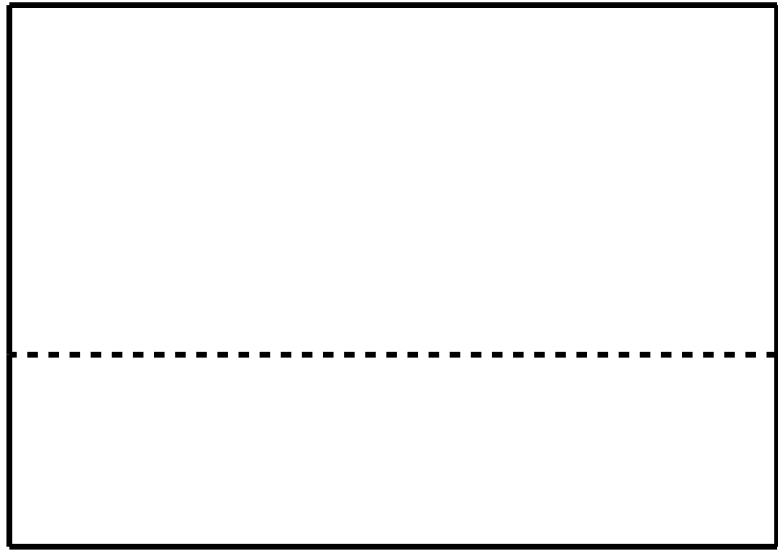
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-67
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2			4			217



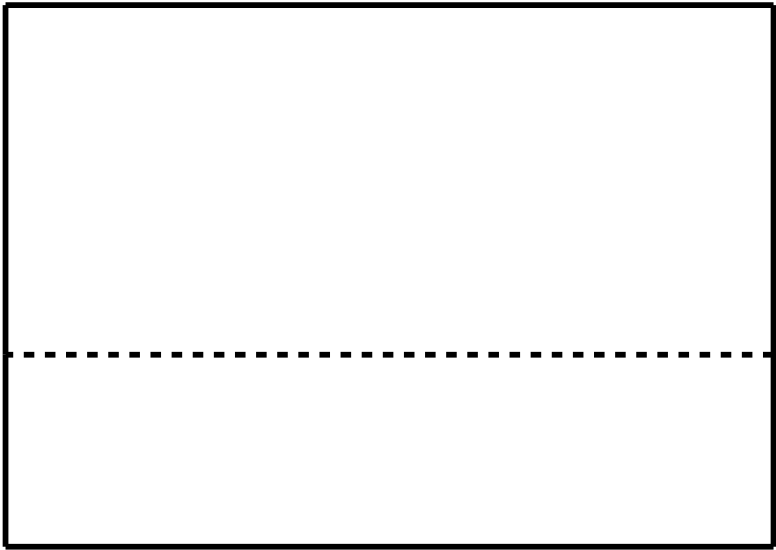
PLAN



ELEVATION



FRONT VIEW OF W1



FRONT VIEW OF W2

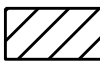
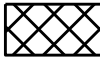

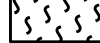
REPAIR QUANTITY TABLE				
END BENT 2 (NORTHBOUND)	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		318.7		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

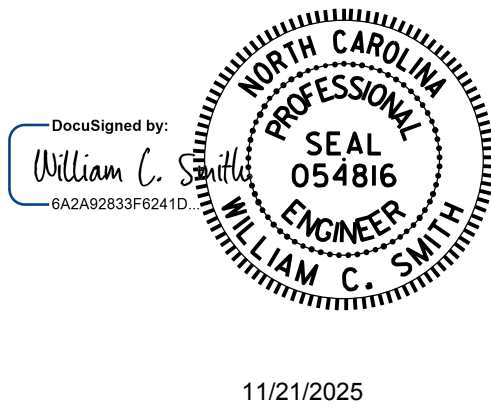
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

STEEL PILES NOT VISIBLE AT TIME OF INSPECTION.

-  SHOTCRETE REPAIR
-  CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
-  PILE
-  EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
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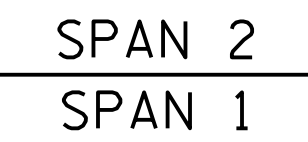
SHEET 3 OF 3



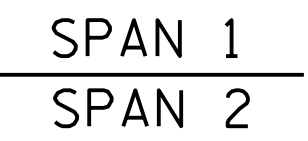
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUBSTRUCTURE END BENT 2 (NORTHBOUND)						SHEET NO. S-68 TOTAL SHEETS 217
REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

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CHECKED BY : W. C. SMITH DATE : 5/07/24

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TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)





ELEVATION
 (NORTH SIDE)
 (LOOKING SOUTH)

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- | | |
|---|-----------------------|
|  | SHOTCRETE REPAIR |
|  | CONCRETE REPAIR |
| ERI | EPOXY RESIN INJECTION |
|  | PILE |
|  | EPOXY COATING |

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BEAUFORT COUNTY
 BRIDGE NO. 060353


SHEET 1 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE REPAIR

BENT 1

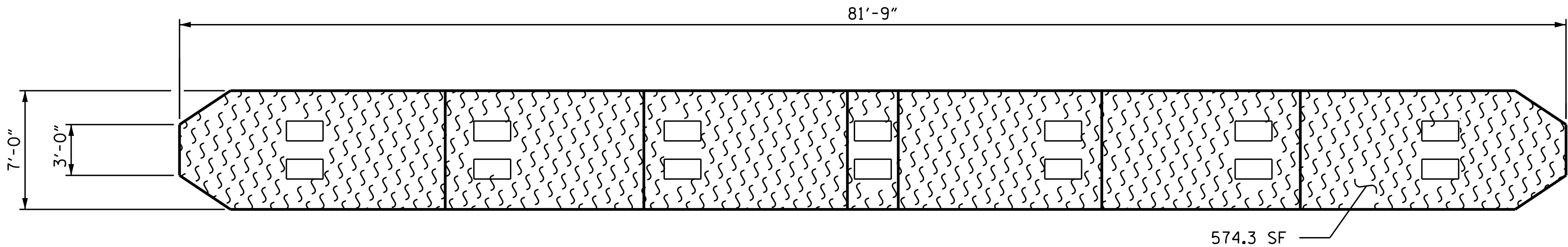
DocuSigned by:
William C. Smith
6A2A92833F6241D...

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "WILLIAM C. SMITH" at the bottom. The inner circle contains the text "PROFESSIONAL" at the top, "SEAL" in the center, "054816" below the seal number, and "ENGINEER" at the bottom. The seal is stamped in blue ink.

11/21/2025

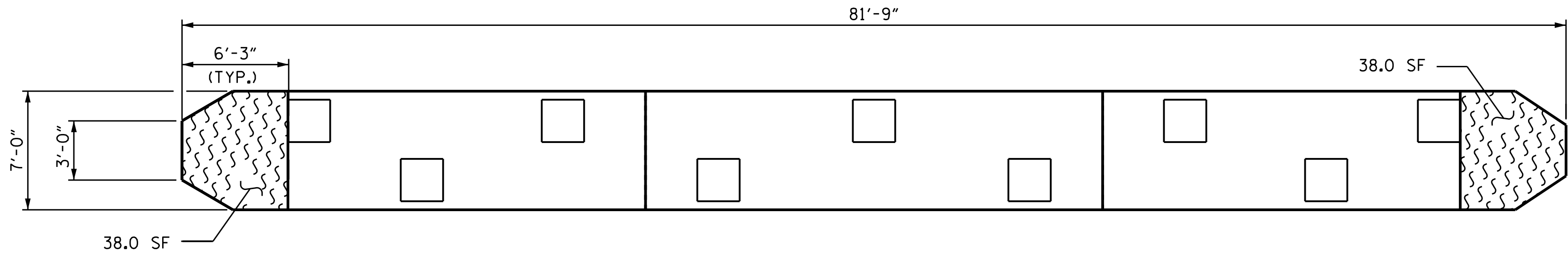
DRAWN BY : S. T. SANDOR DATE : 5/1/24
CHECKED BY : W. C. SMITH DATE : 5/7/24

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	1			3			TOTAL SHEETS
	2			4			217



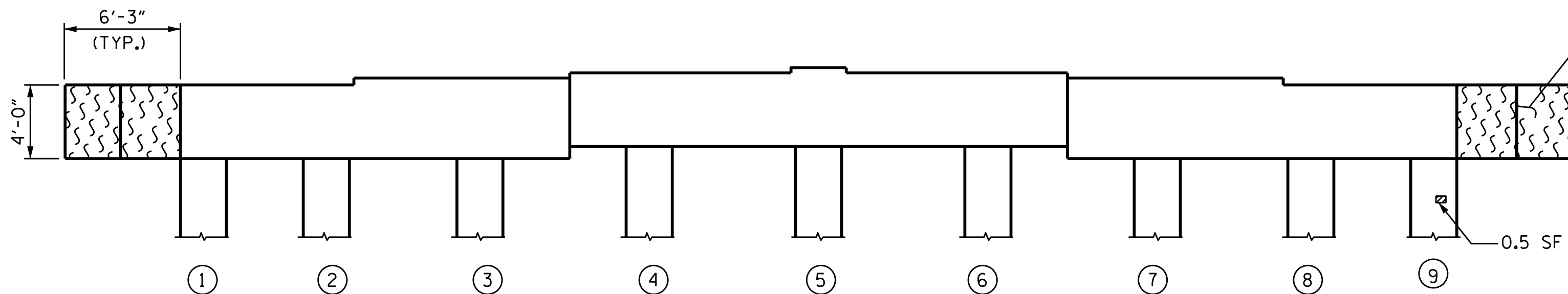
TOP VIEW OF CAP

SPAN 3
SPAN 2



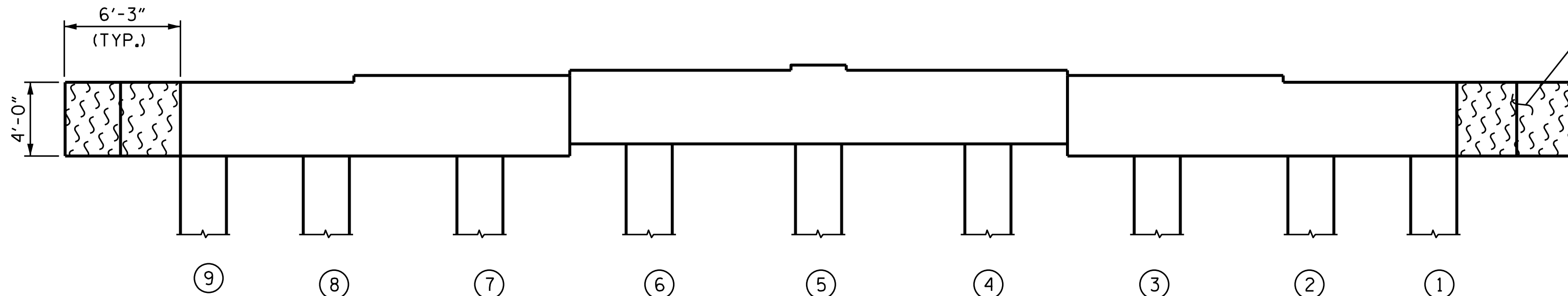
BOTTOM VIEW OF CAP

SPAN 2
SPAN 3



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 2	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.5	0.3		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

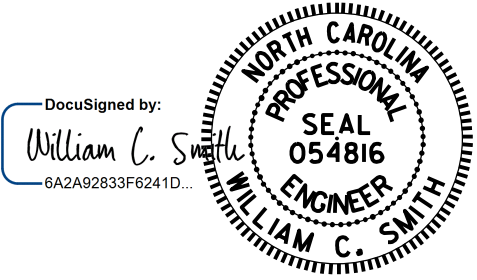
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
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SHEET 2 OF 140

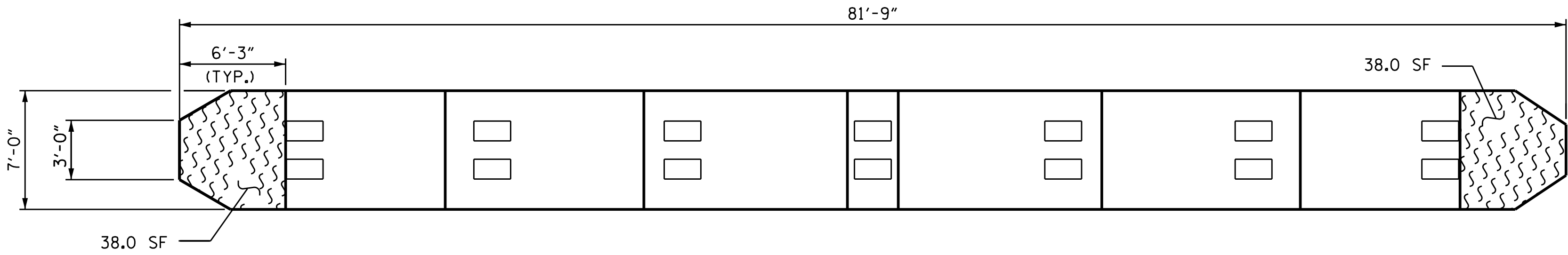


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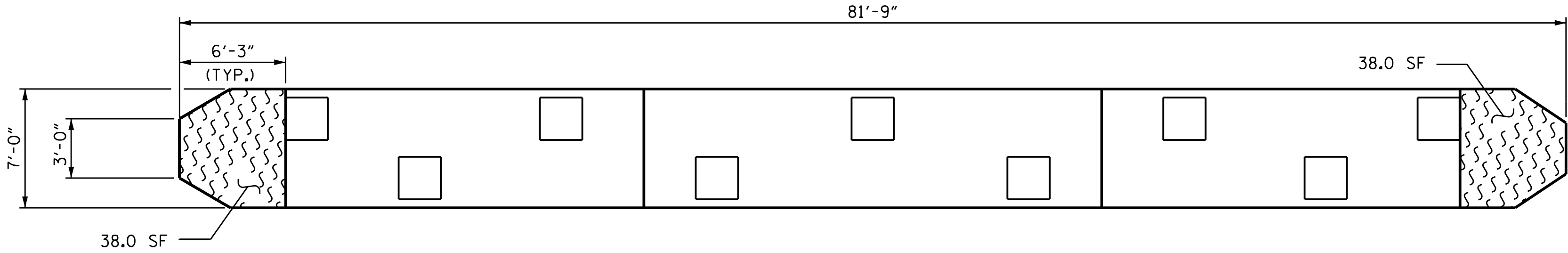
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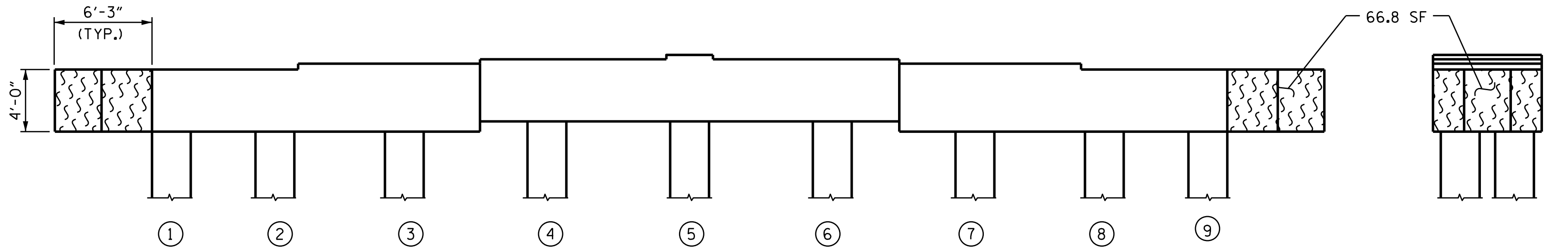
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NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-70
2			4			TOTAL SHEETS 217



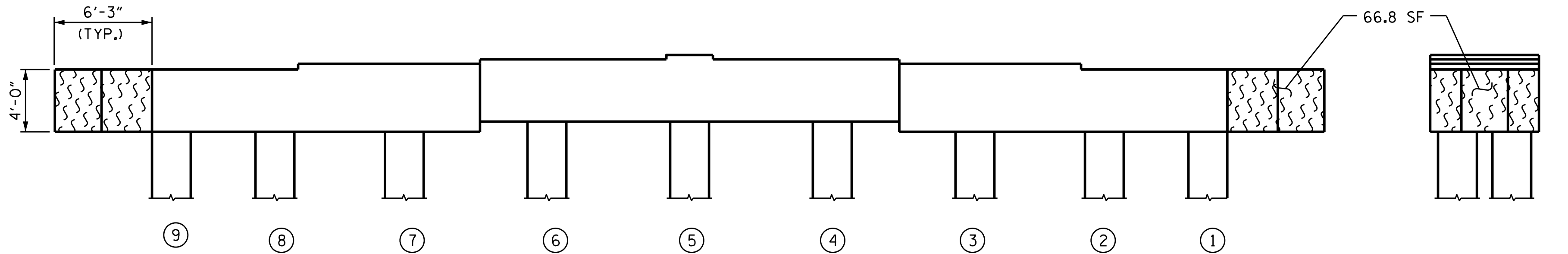
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 4
SPAN 3

SPAN 3
SPAN 4

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 3	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

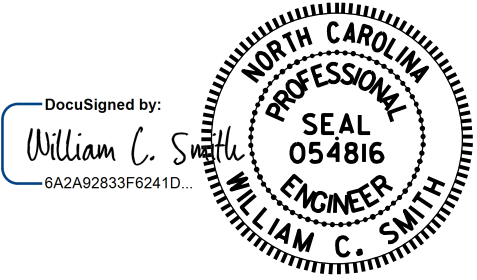
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 3 OF 140



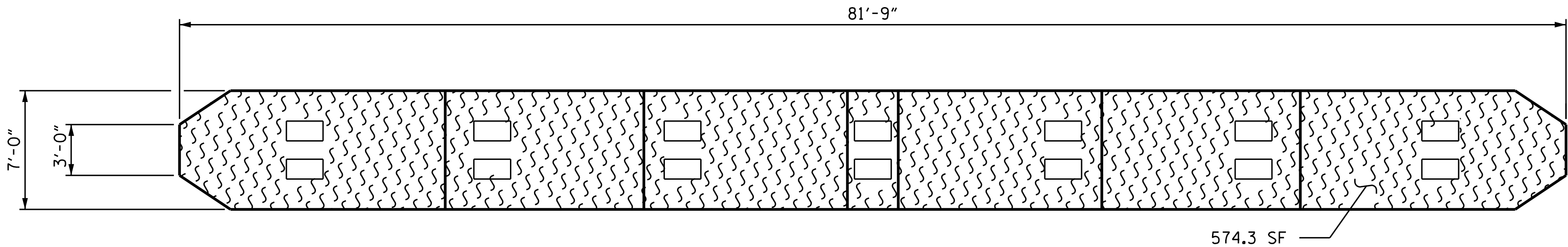
11/21/2025

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11/20/2025

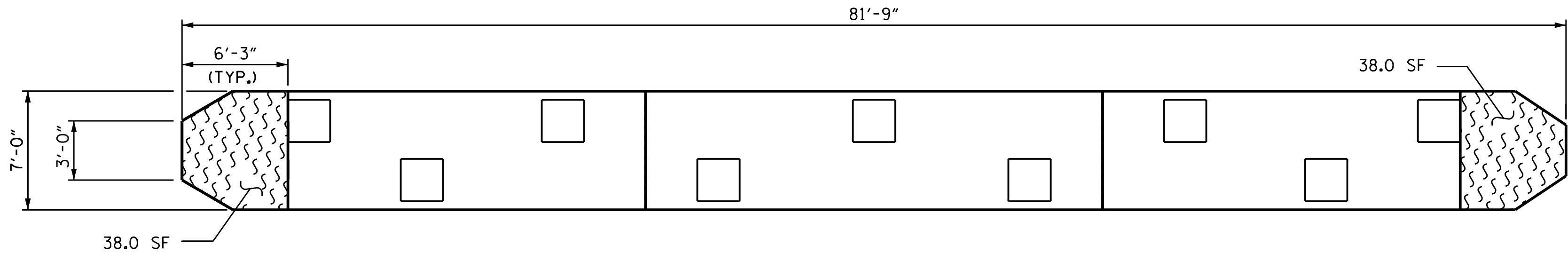
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1			3			TOTAL SHEETS
2			4			217



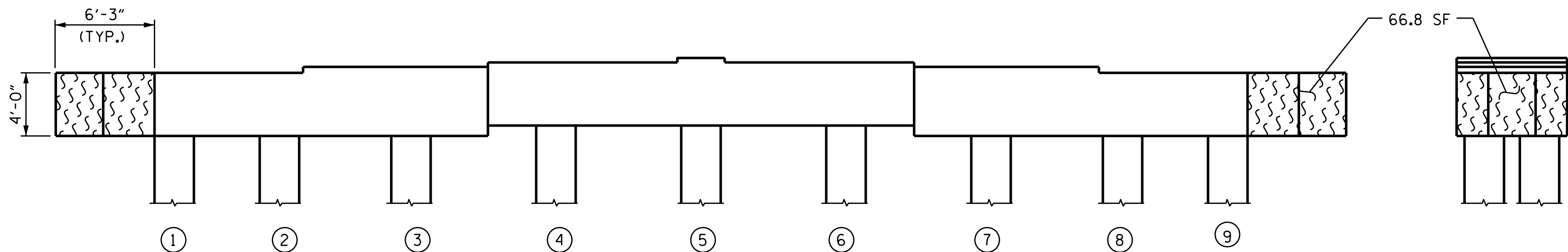
TOP VIEW OF CAP

SPAN 5
SPAN 4



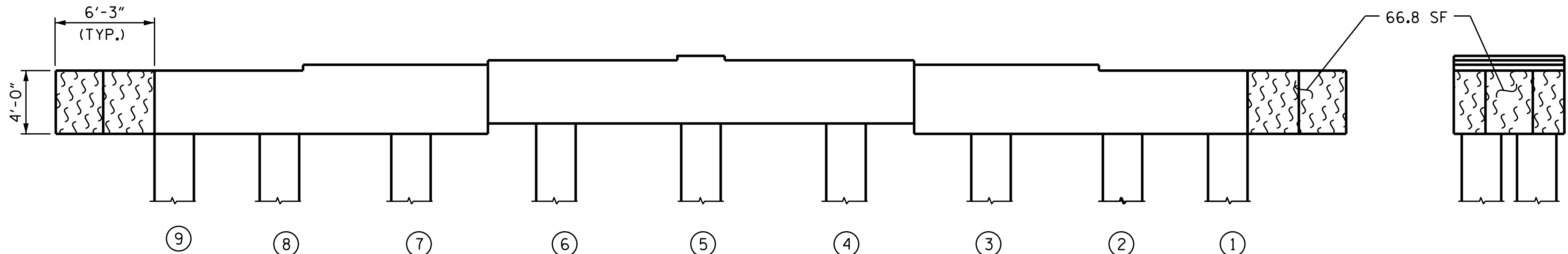
BOTTOM VIEW OF CAP

SPAN 4
SPAN 5



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 4	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

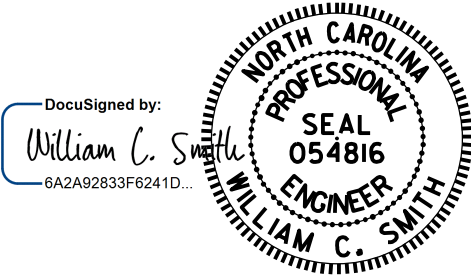
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 4 OF 140

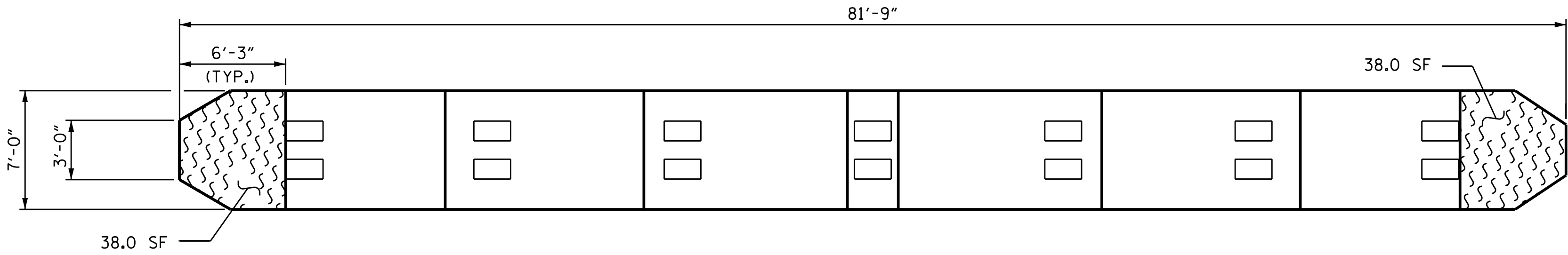


11/21/2025

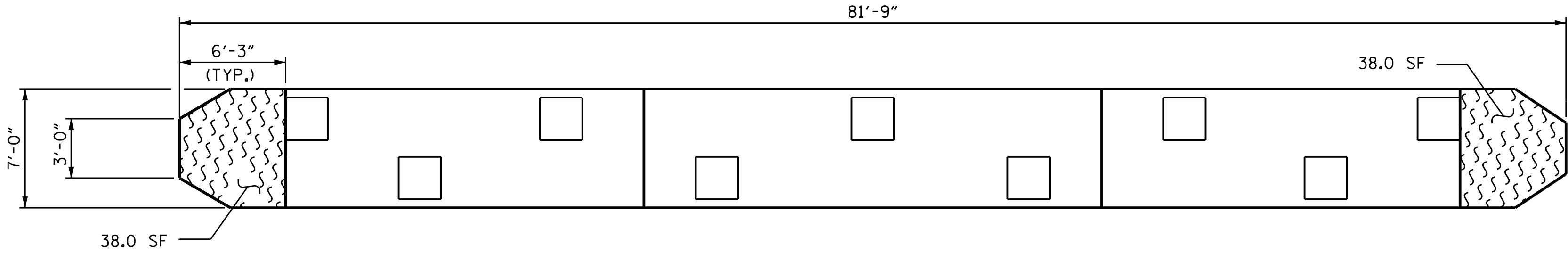
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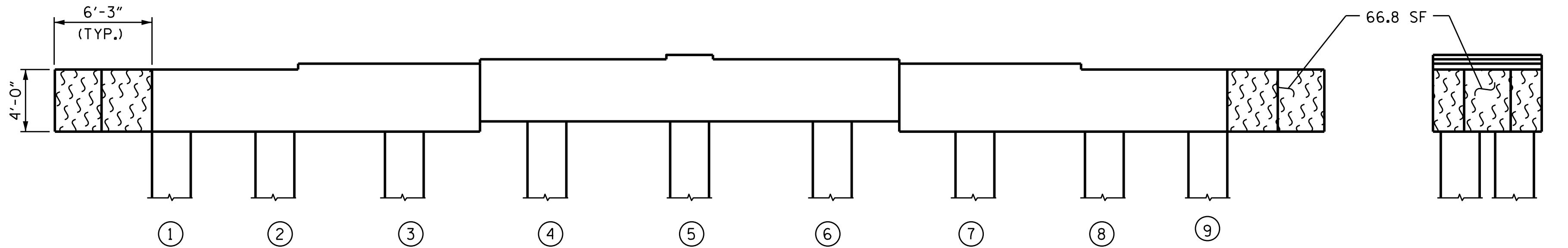
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2			4			217



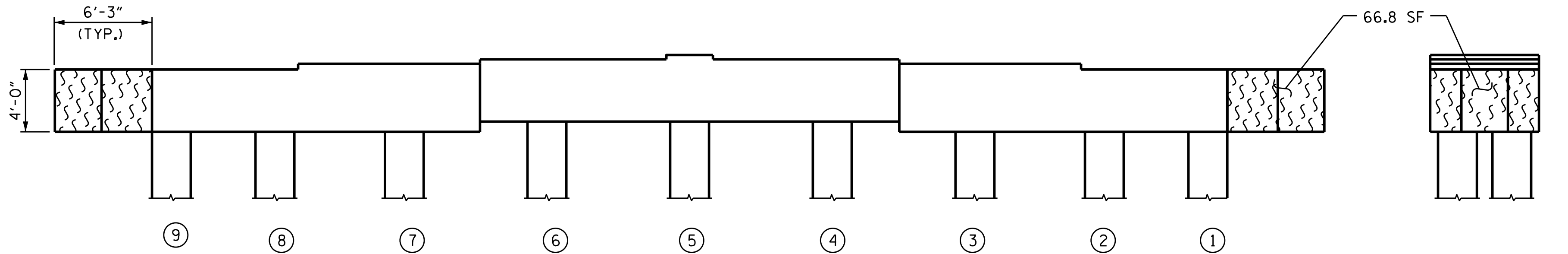
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 6
SPAN 5

SPAN 5
SPAN 6

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 5	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

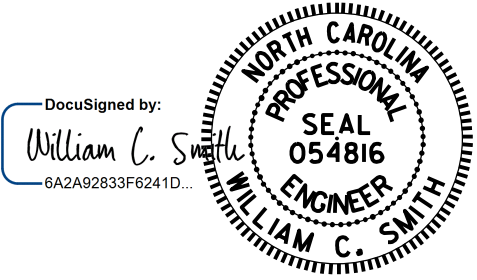
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 5 OF 140



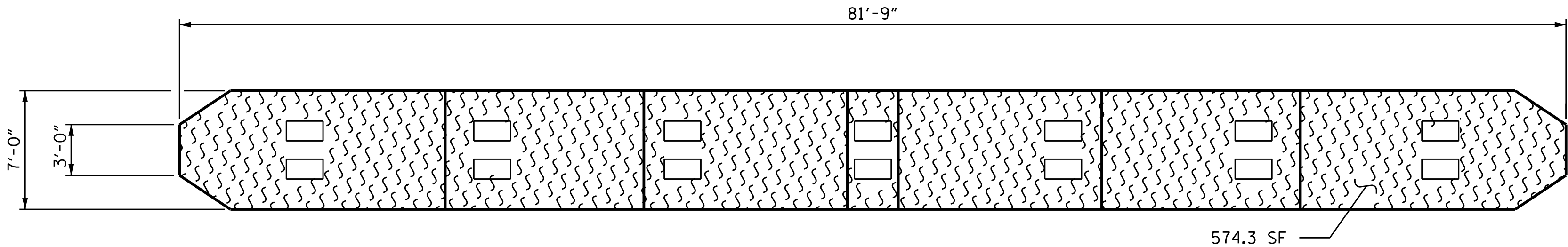
11/21/2025

DRAWN BY : S. T. SANDOR DATE : 5/1/24
CHECKED BY : W. C. SMITH DATE : 5/7/24

11/20/2025

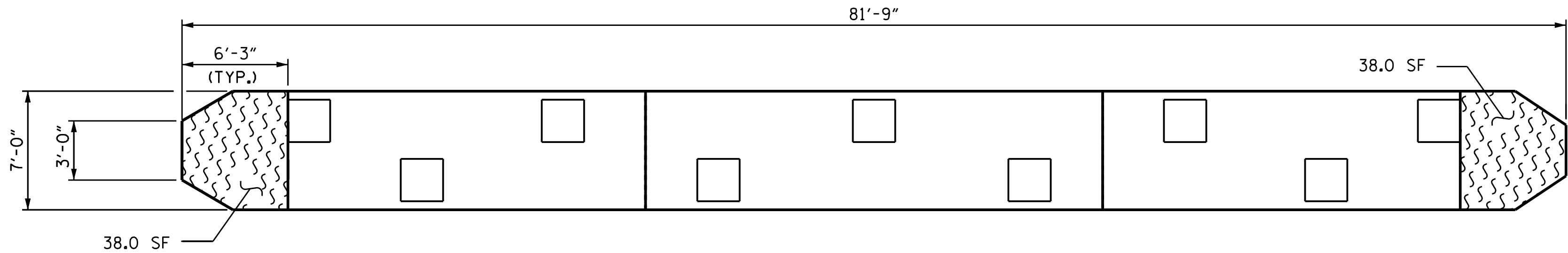
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SIGNATURES COMPLETED

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1			3			TOTAL SHEETS
2			4			217



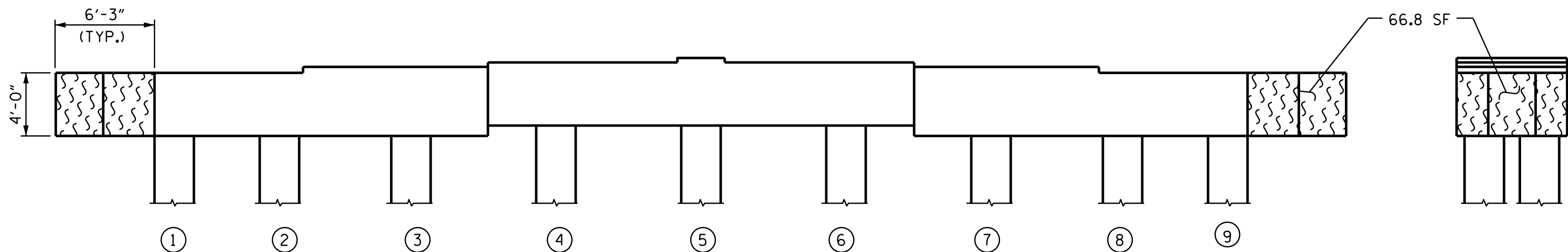
TOP VIEW OF CAP

SPAN 7
SPAN 6



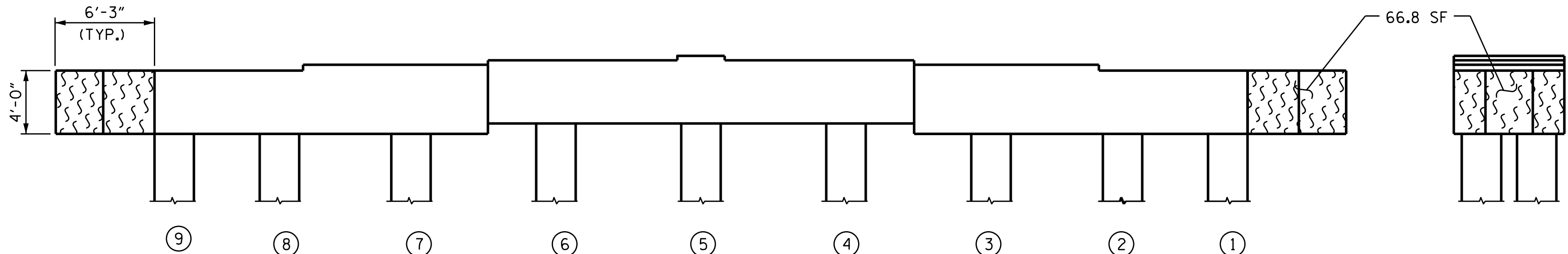
BOTTOM VIEW OF CAP

SPAN 6
SPAN 7



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 6	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

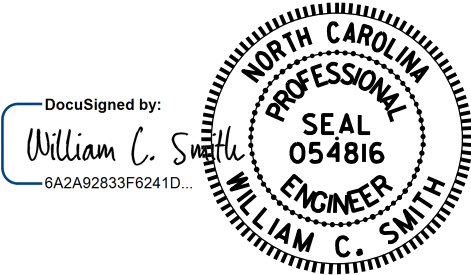
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BRIDGE NO. 060353

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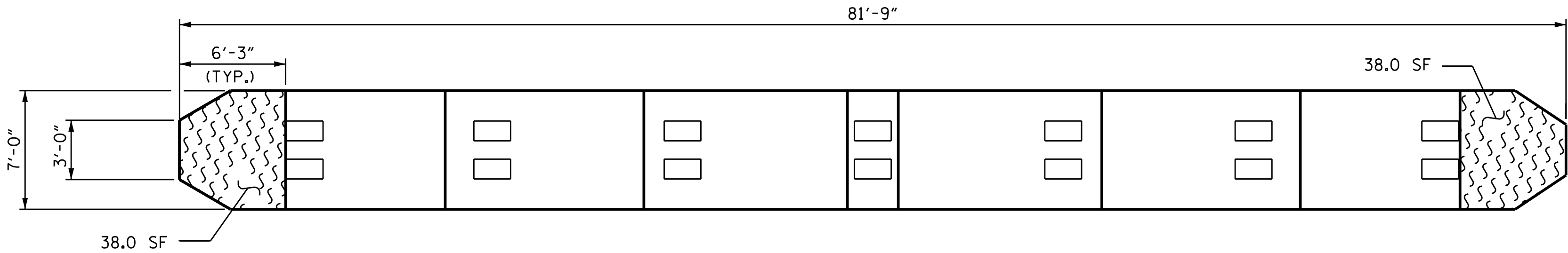


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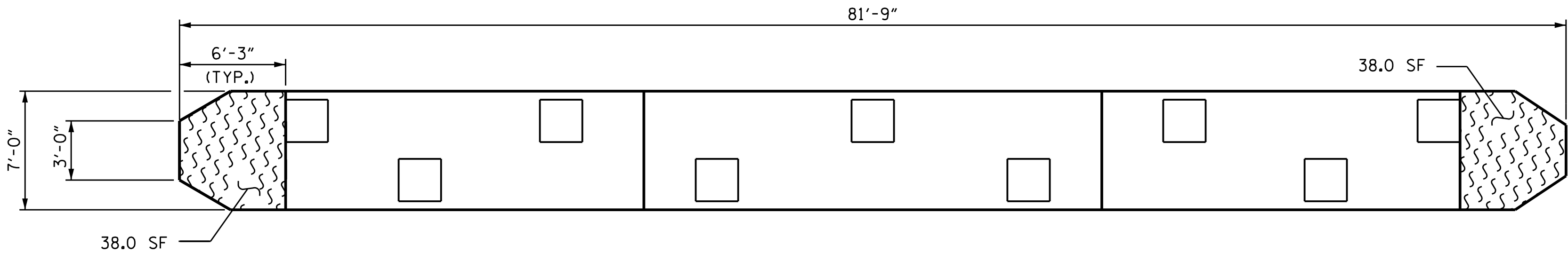
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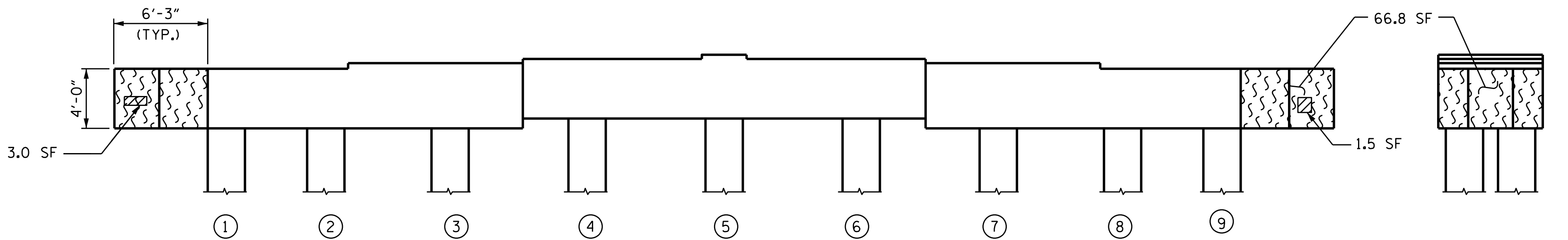
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2			4			217



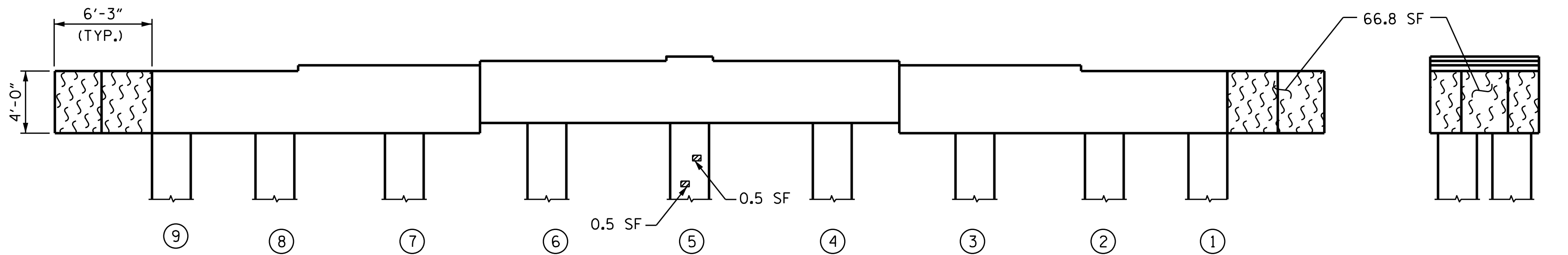
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 7	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	4.5	2.3		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	1.0	0.5		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

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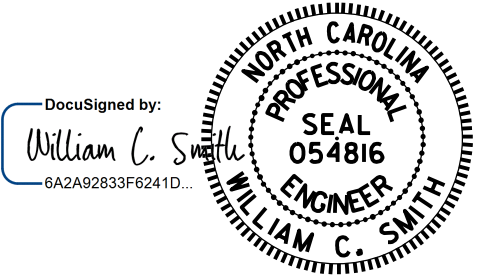
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- EPOXY RESIN INJECTION
- PILE
- EPOXY COATING

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 7



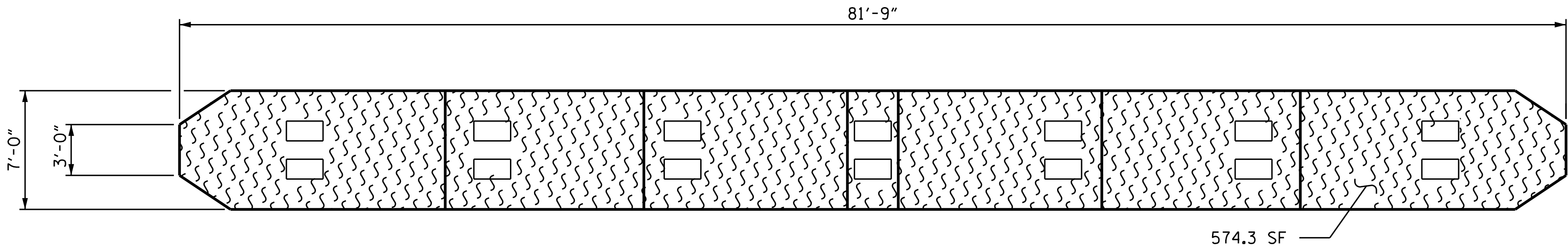
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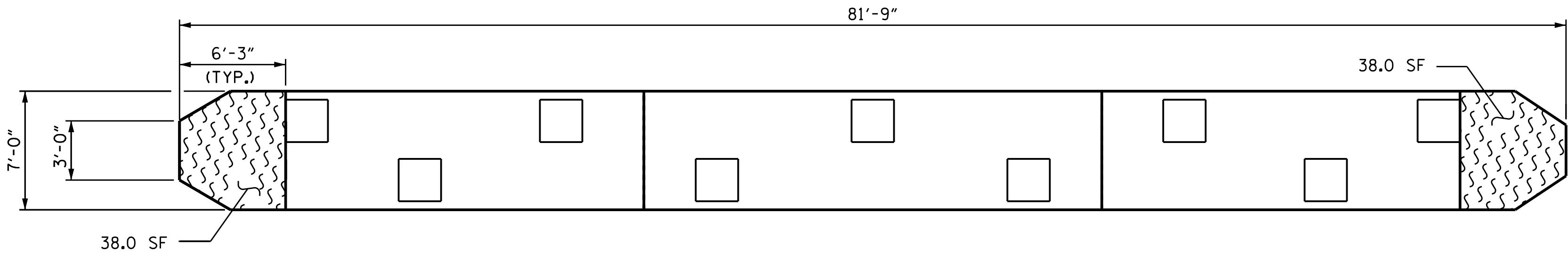
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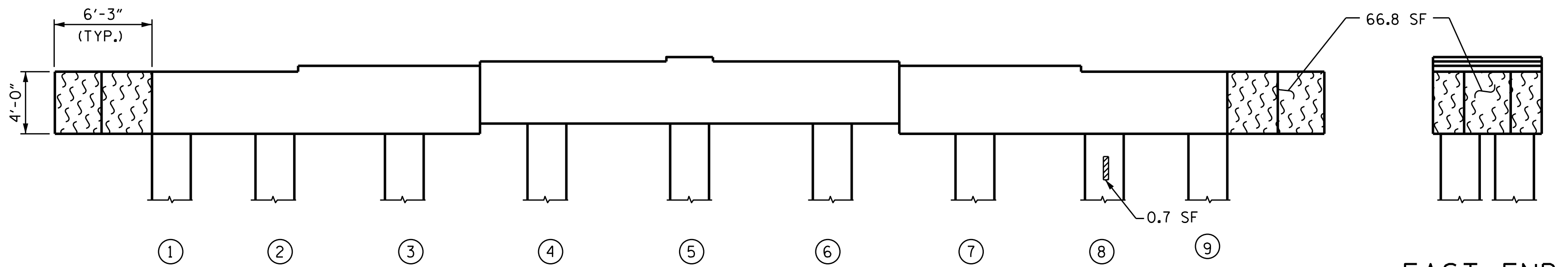
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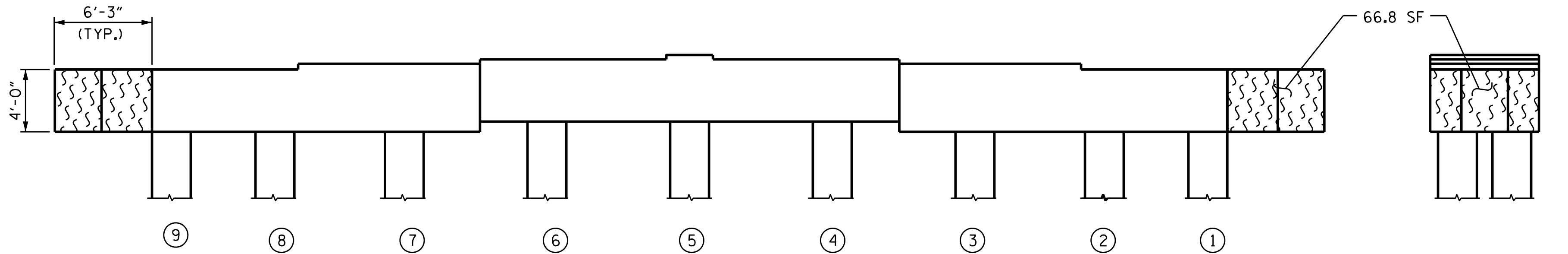
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 9
SPAN 8

SPAN 8
SPAN 9

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 8	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.7	0.4		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

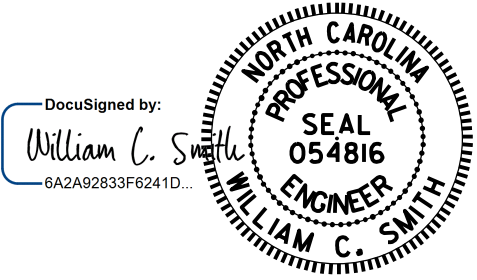
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BRIDGE NO. 060353

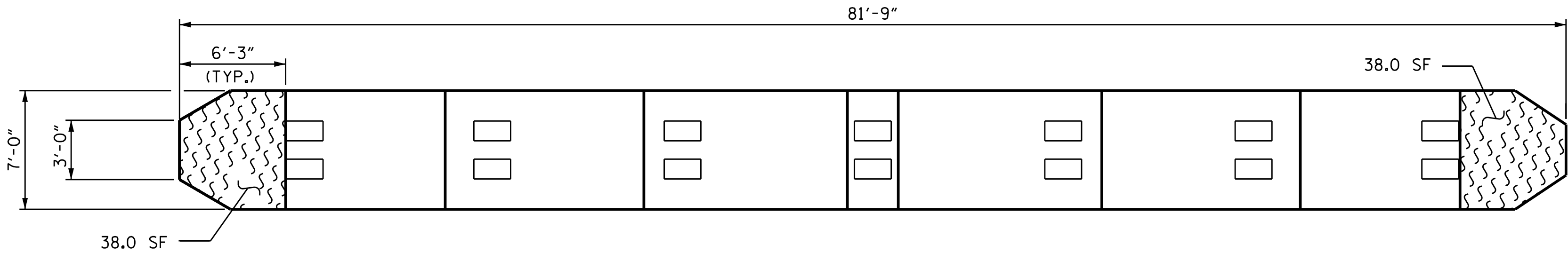
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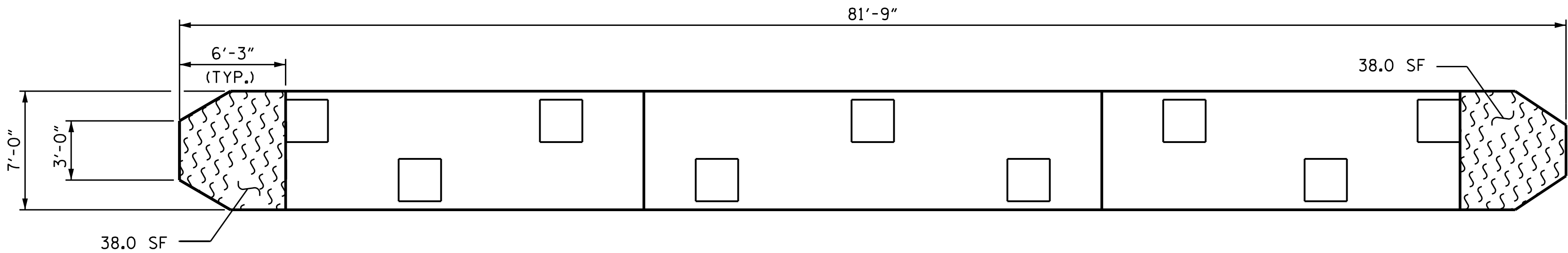
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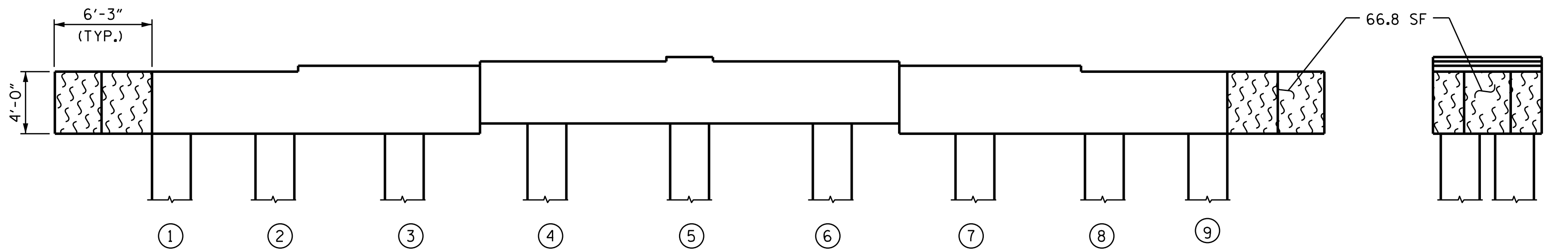
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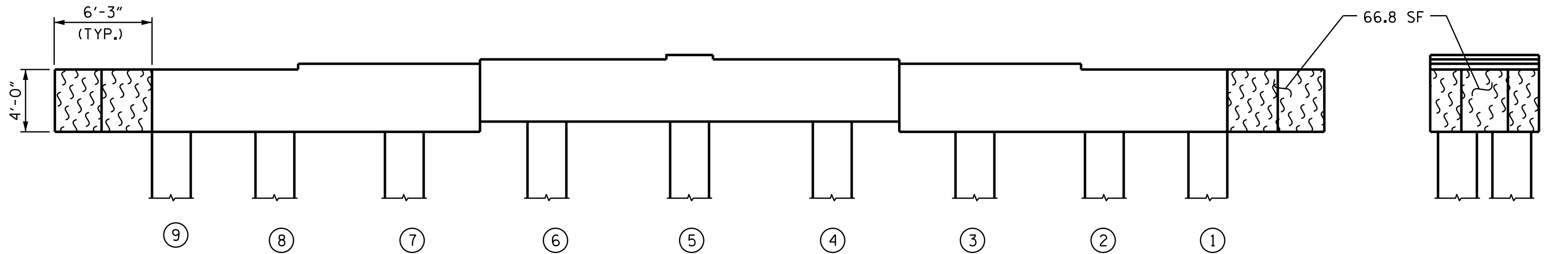
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 10
SPAN 9

SPAN 9
SPAN 10

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 9	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

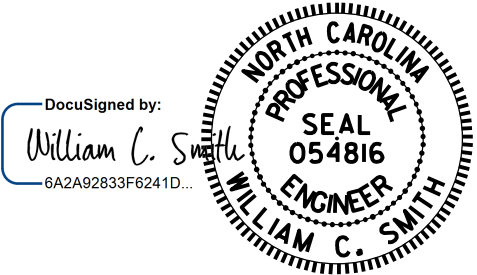
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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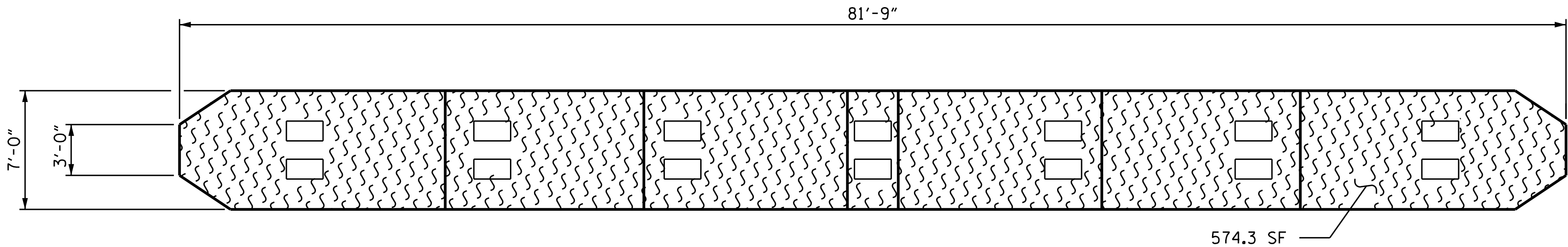
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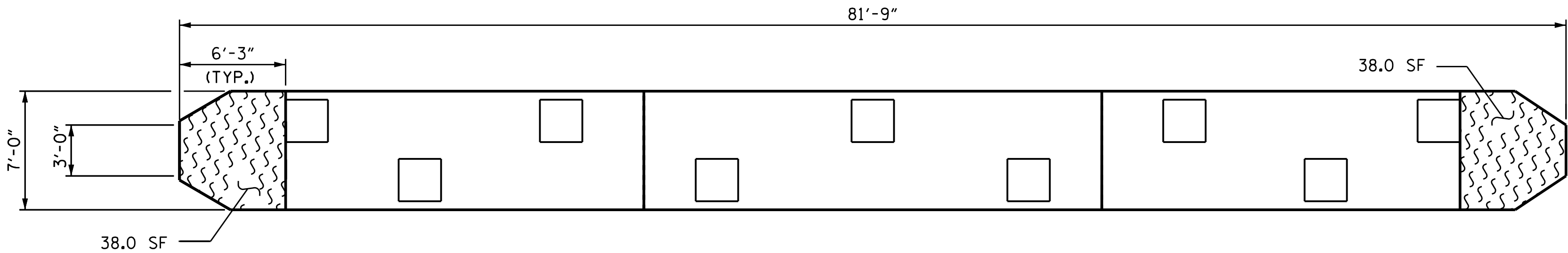
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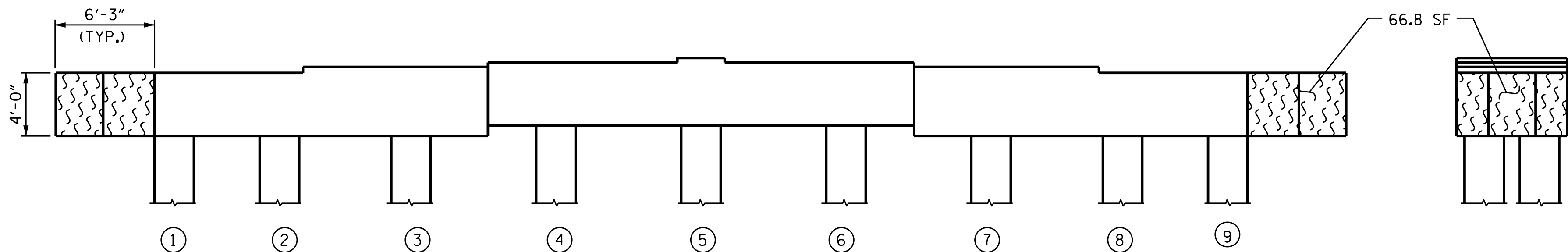
TOP VIEW OF CAP

SPAN 11
SPAN 10



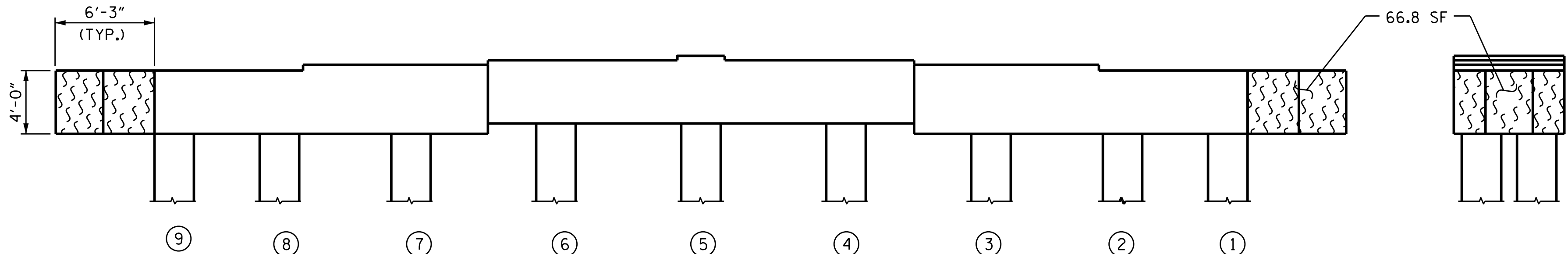
BOTTOM VIEW OF CAP

SPAN 10
SPAN 11



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 10	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

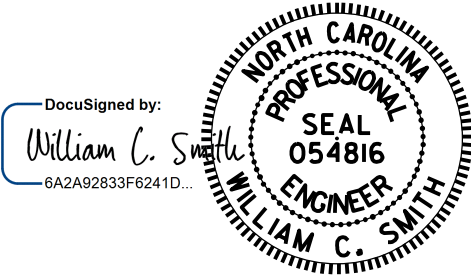
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BRIDGE NO. 060353

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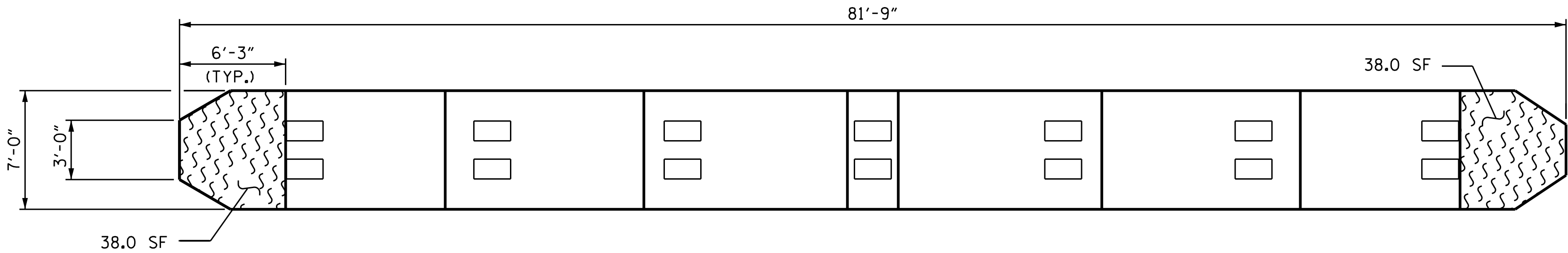


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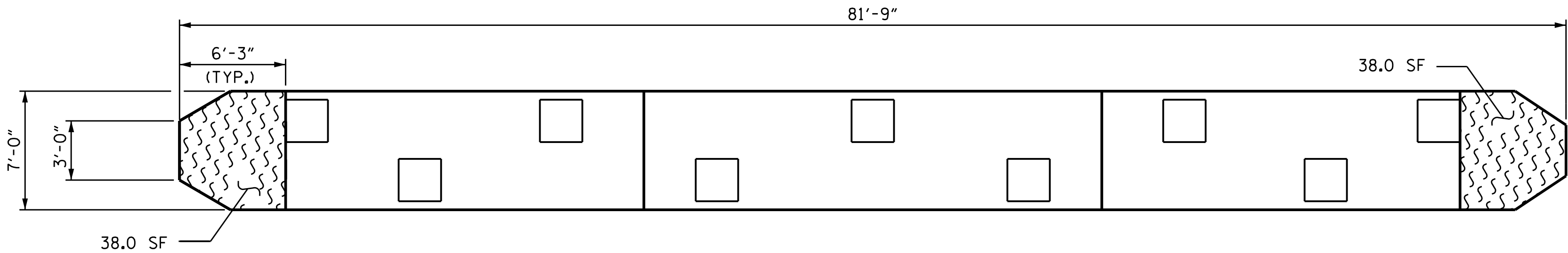
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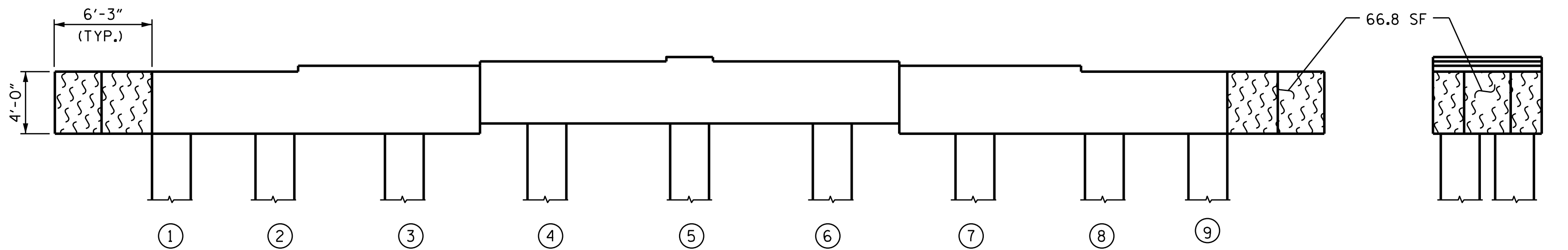
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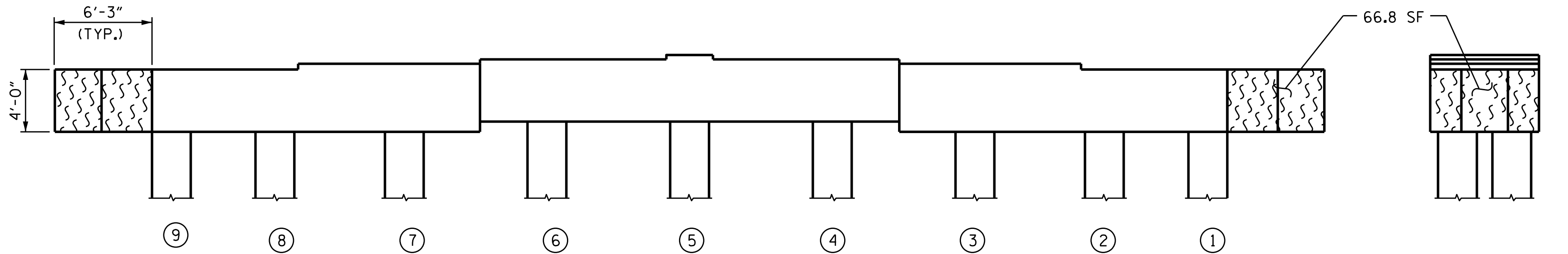
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 12
SPAN 11

SPAN 11
SPAN 12

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 11	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

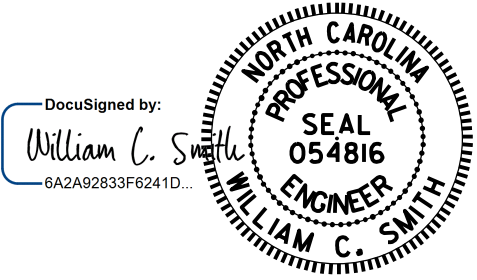
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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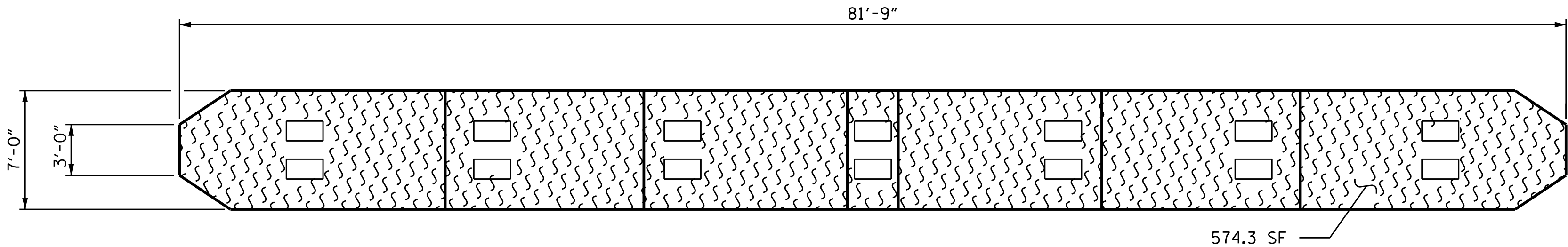
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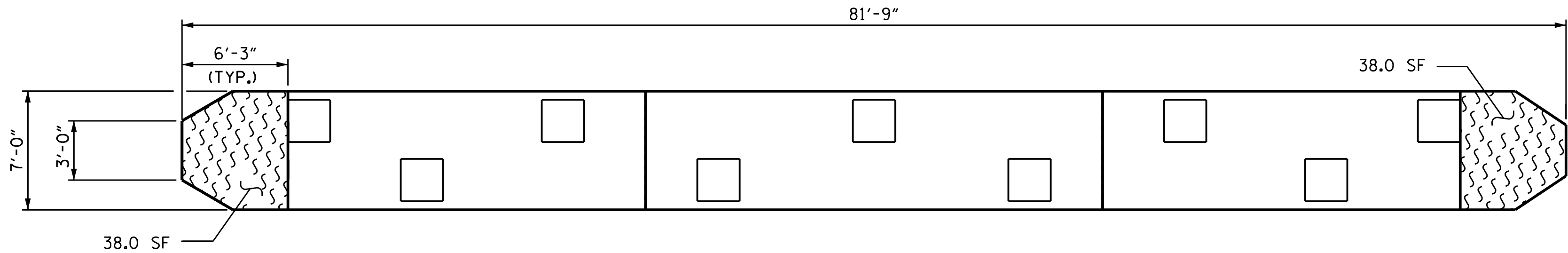
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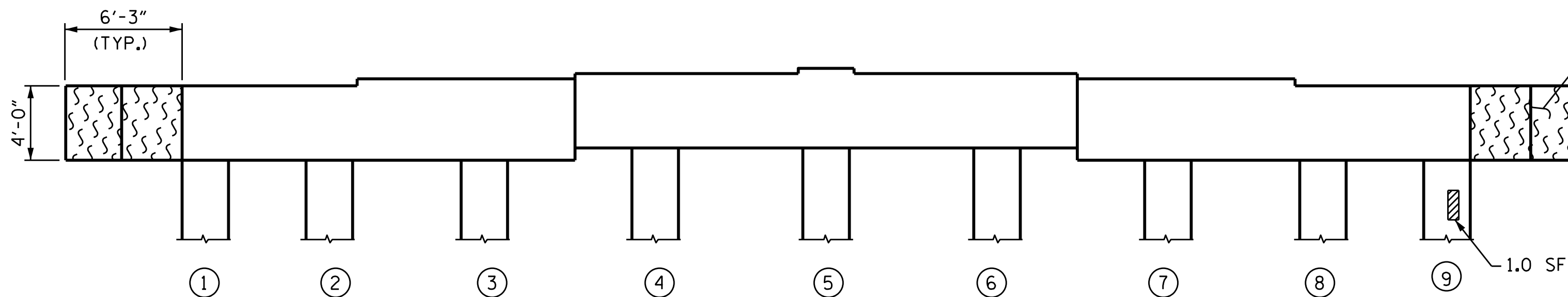
TOP VIEW OF CAP

SPAN 13
SPAN 12



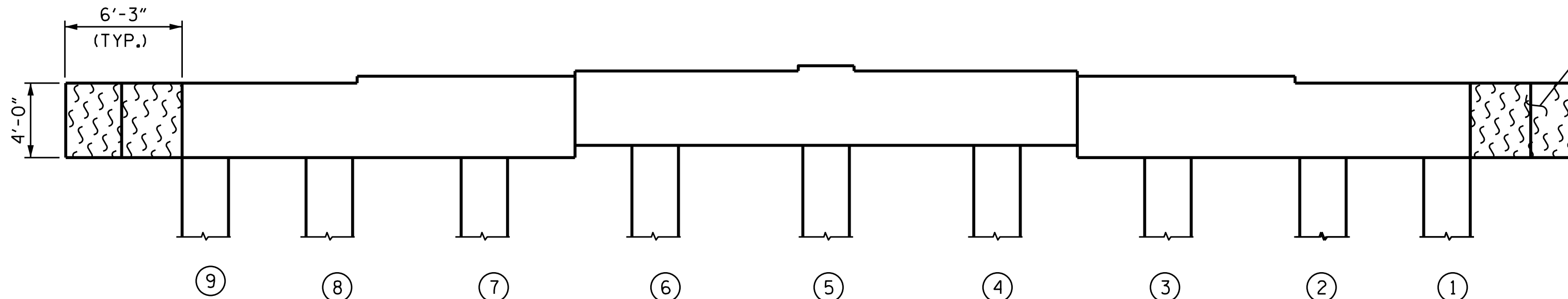
BOTTOM VIEW OF CAP

SPAN 12
SPAN 13



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 12	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	1.0	0.5		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

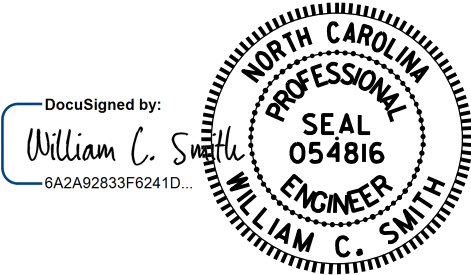
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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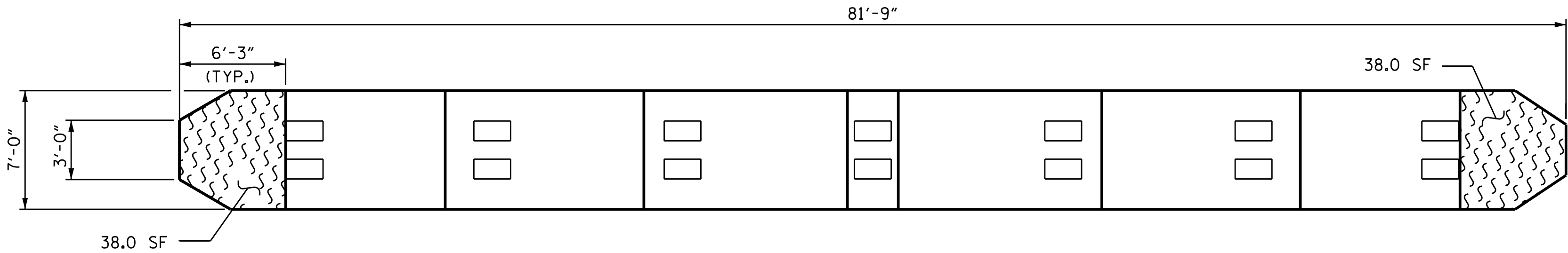
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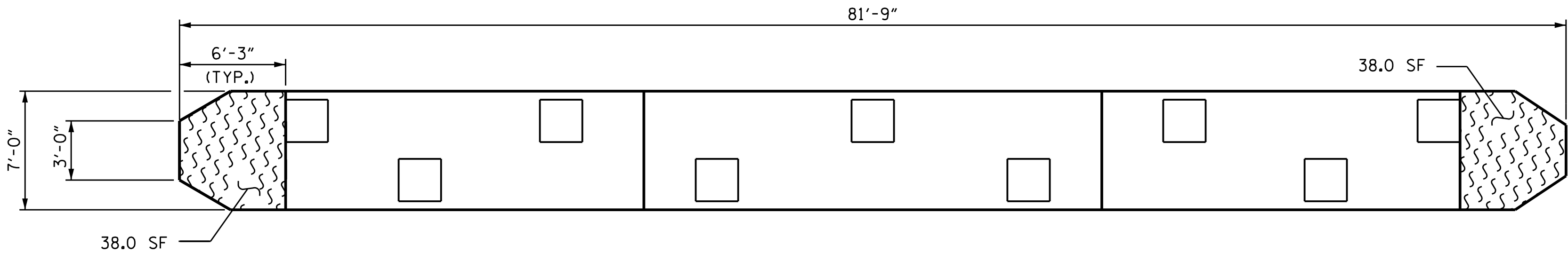
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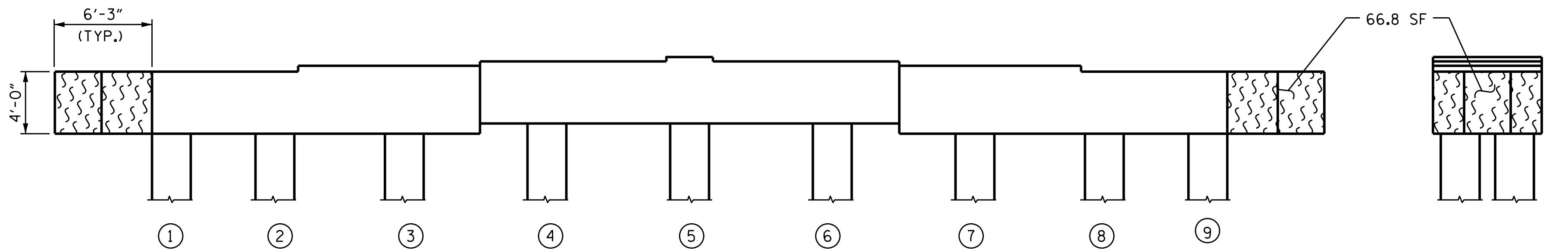
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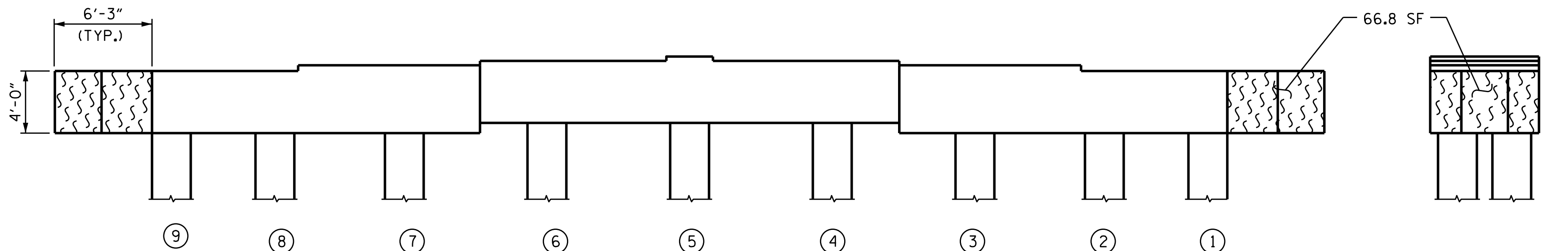
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 14
SPAN 13

SPAN 13
SPAN 14

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 13	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

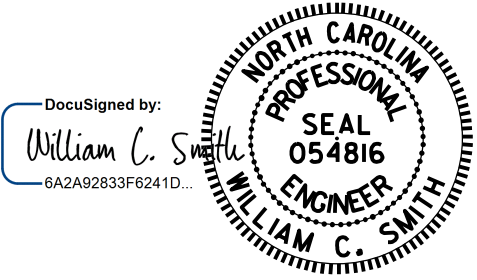
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BRIDGE NO. 060353

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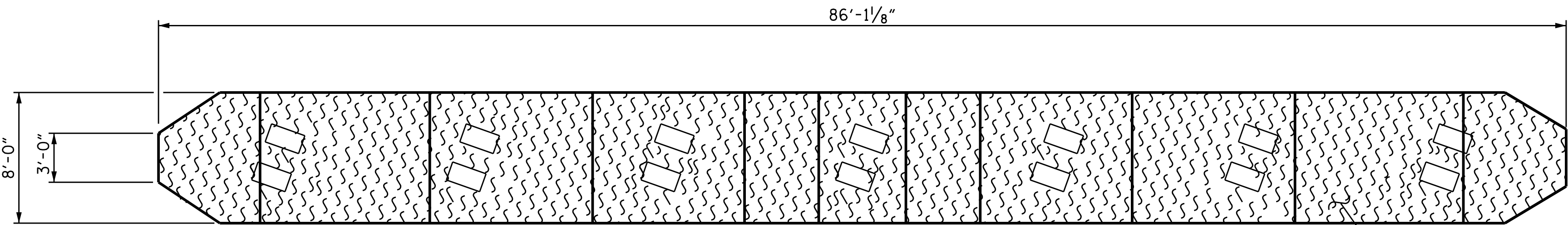
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CHECKED BY : W. C. SMITH DATE : 5/7/24

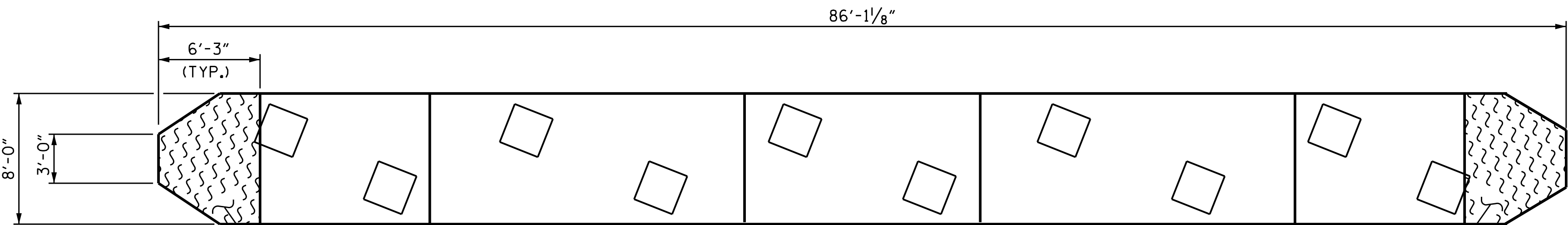
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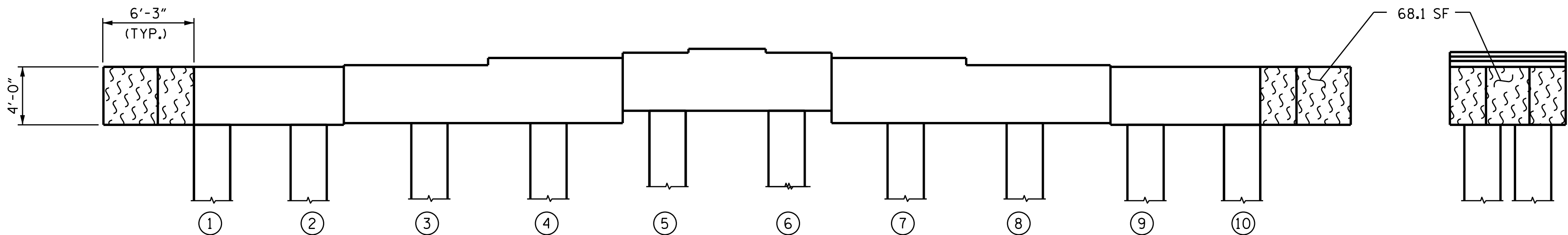
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-81
1			3			TOTAL SHEETS
2			4			217



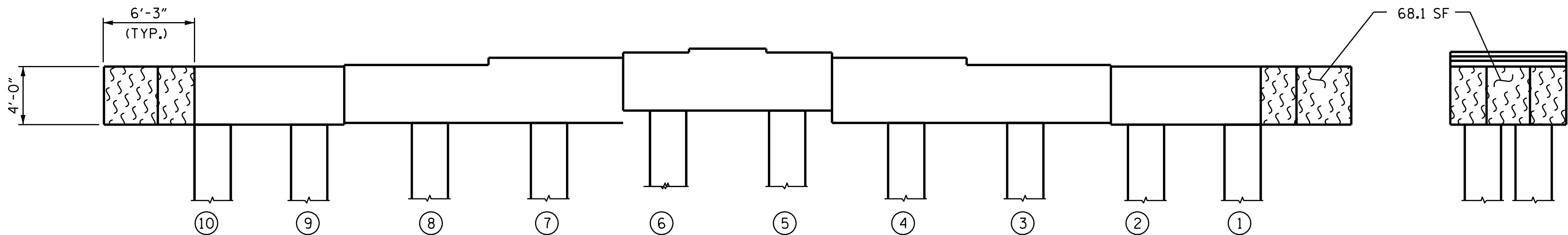
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 15
SPAN 14

SPAN 14
SPAN 15

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 14	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		903.4		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

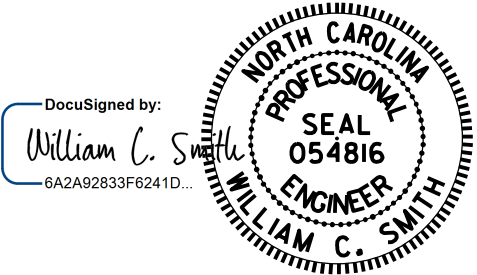
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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SHEET 14 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 14

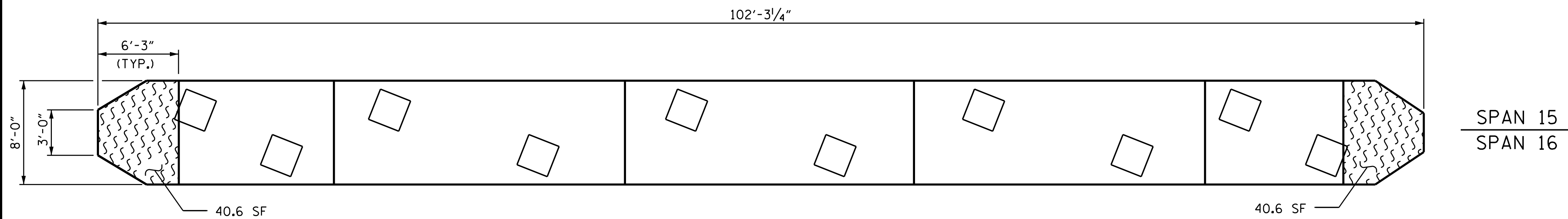


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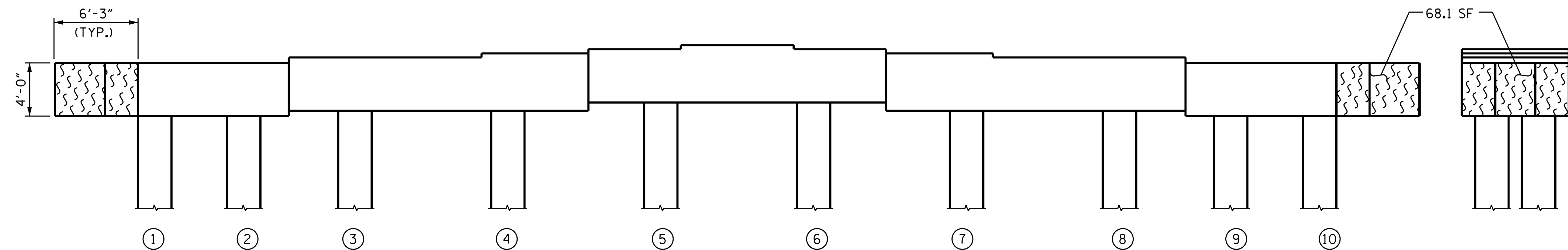
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2			4			217



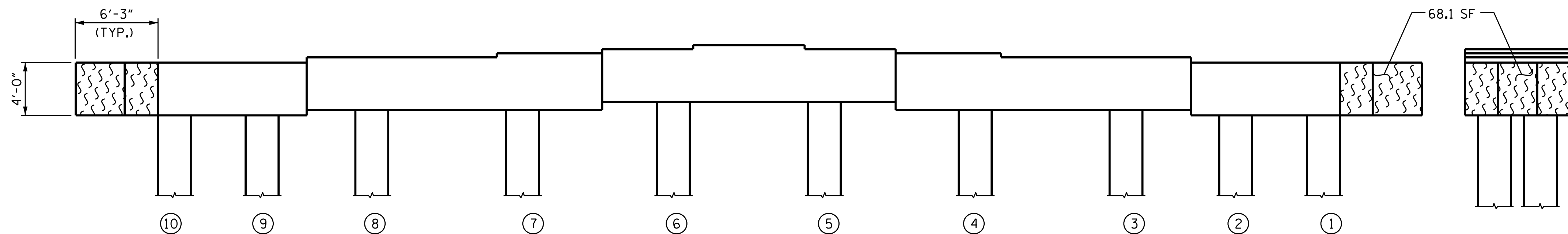
TOP VIEW OF CAP

BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END








ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- | | |
|---|-----------------------|
|  | SHOTCRETE REPAIR |
|  | CONCRETE REPAIR |
|  | EPOXY RESIN INJECTION |
|  | PILE |
|  | EPOXY COATING |

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BEAUFORT COUNTY
 BRIDGE NO. 060353

SHEET 15 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE REPAIR

BENT 15

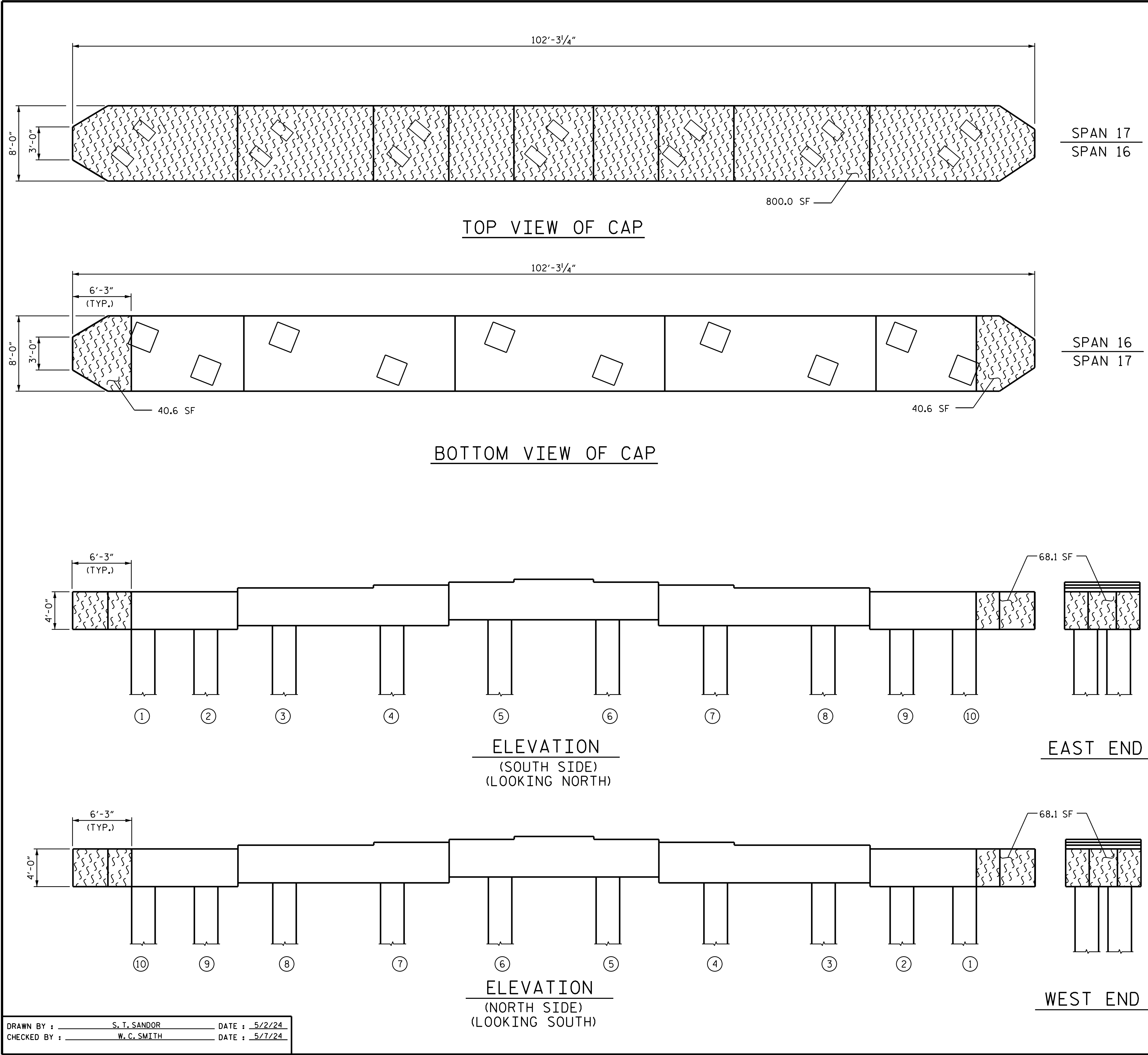
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2			4			

11/21/2025
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kcgdet



REPAIR QUANTITY TABLE				
BENT 16	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		1.033,4		

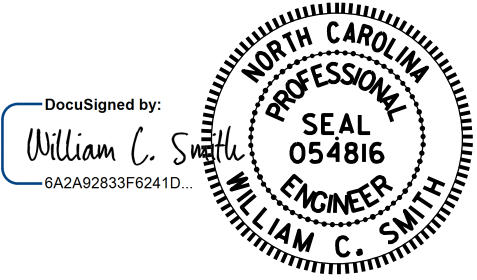
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 16 OF 140

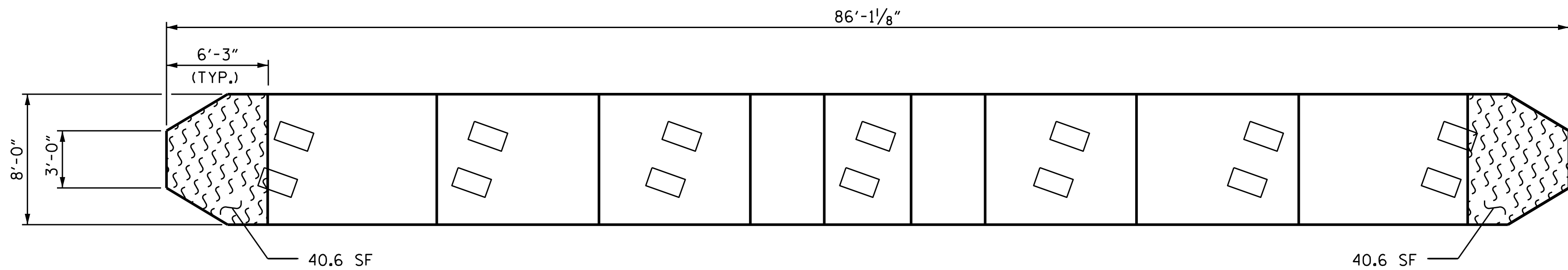


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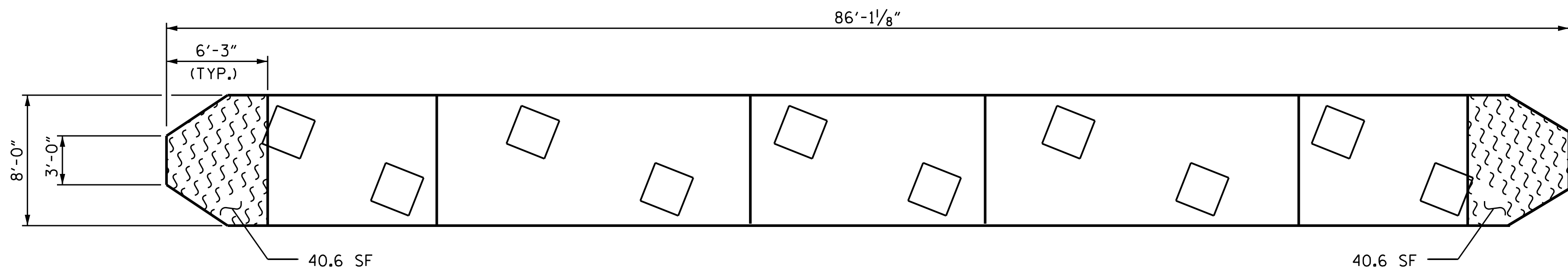
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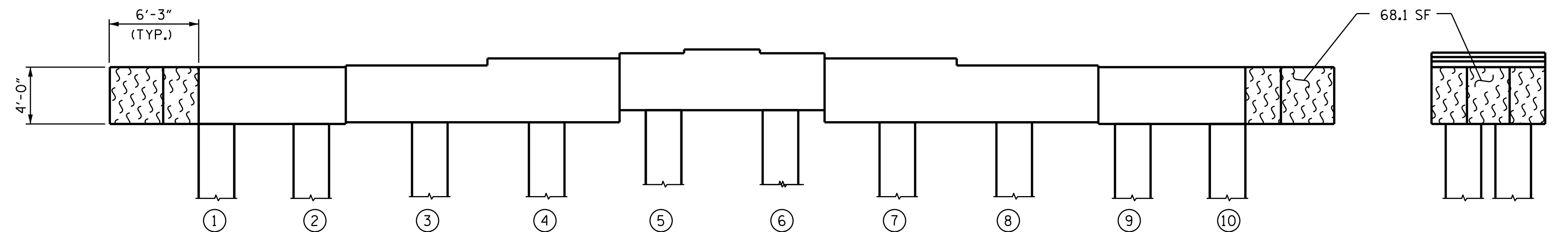
DRAWN BY : S. T. SANDOR DATE : 5/2/24
CHECKED BY : W. C. SMITH DATE : 5/7/24



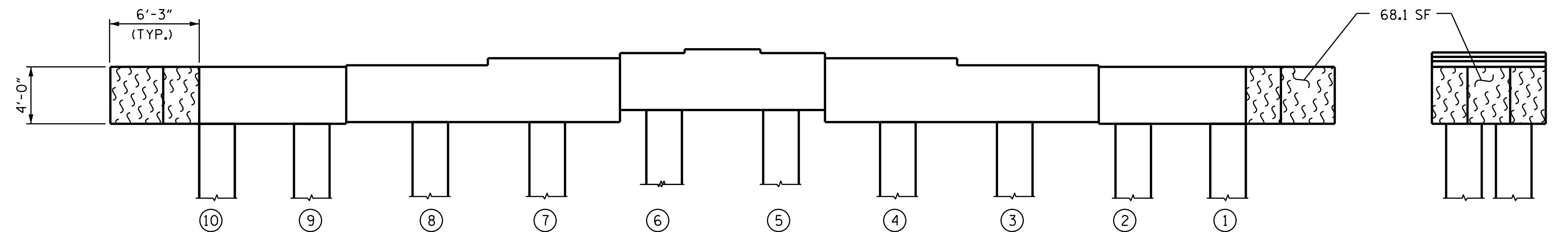
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 18
SPAN 17

SPAN 17
SPAN 18

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 17	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		298.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

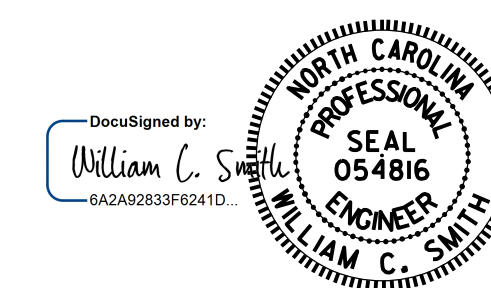
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 17

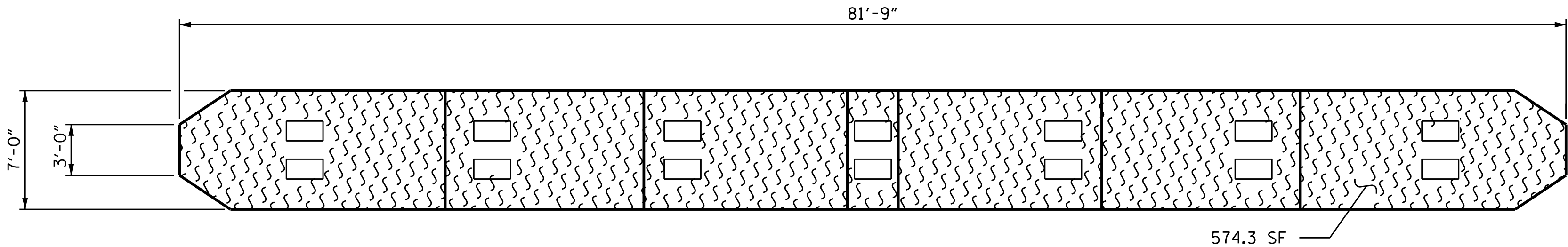


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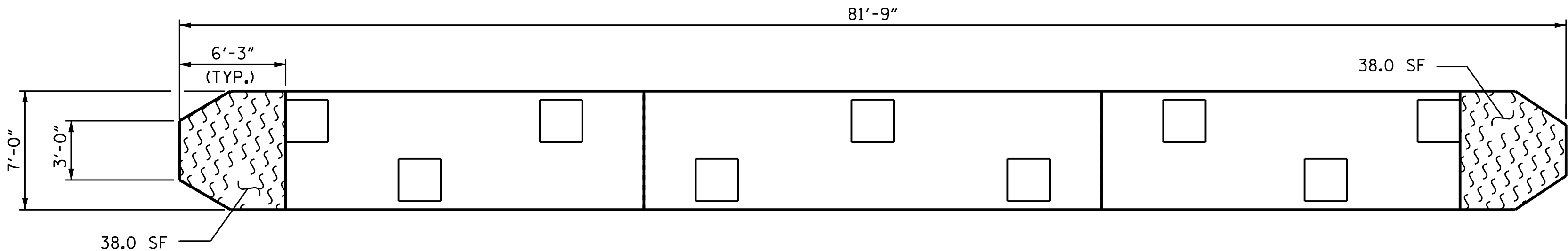
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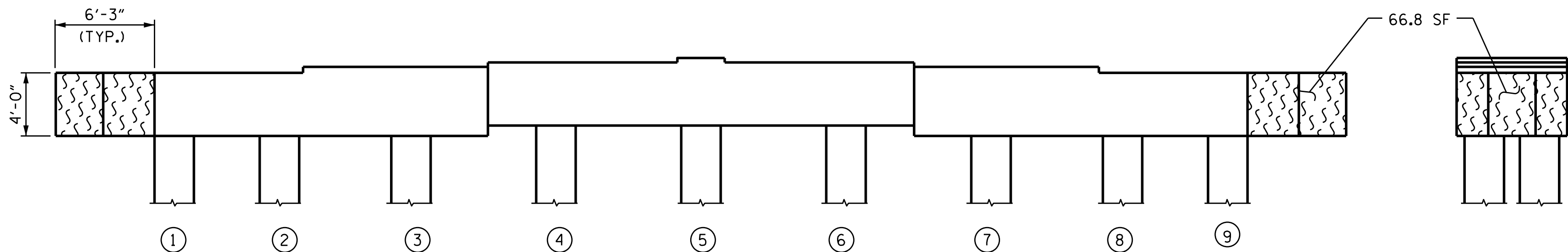
TOP VIEW OF CAP

SPAN 19
SPAN 18



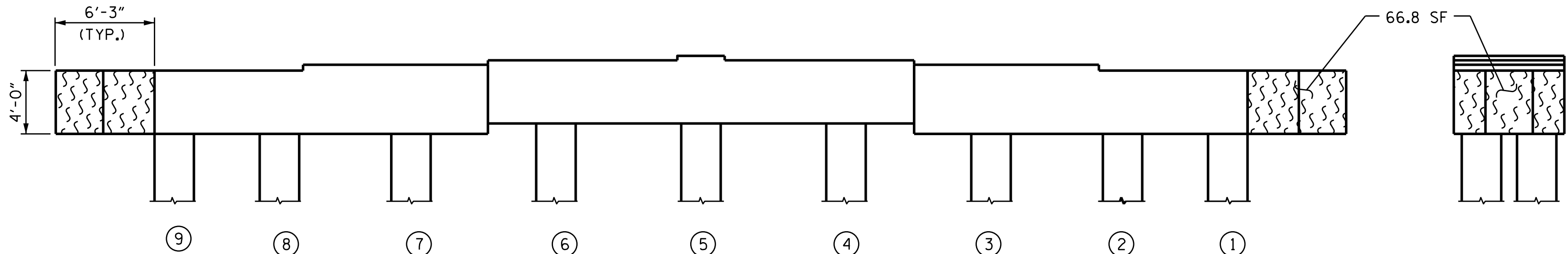
BOTTOM VIEW OF CAP

SPAN 18
SPAN 19



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 18	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

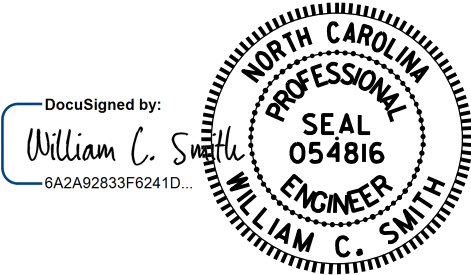
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 18 OF 140

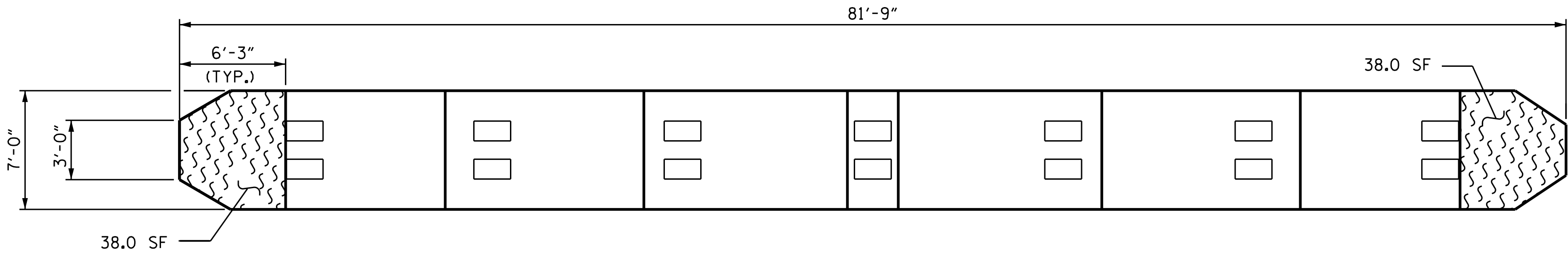


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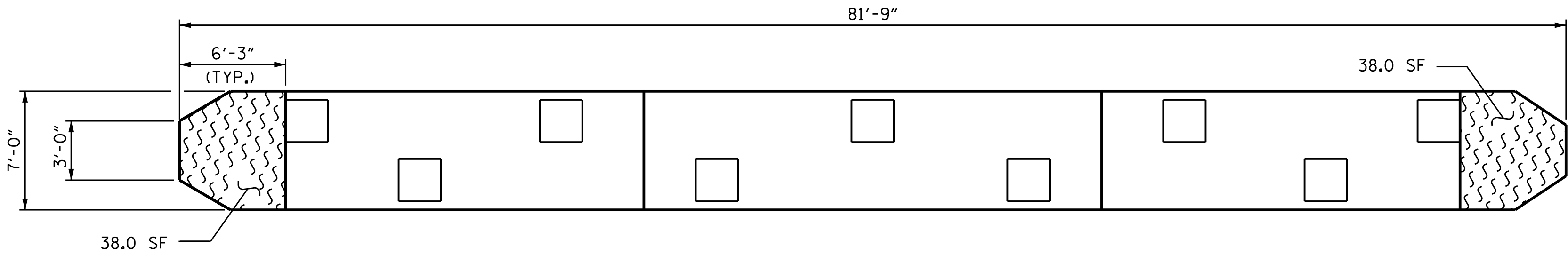
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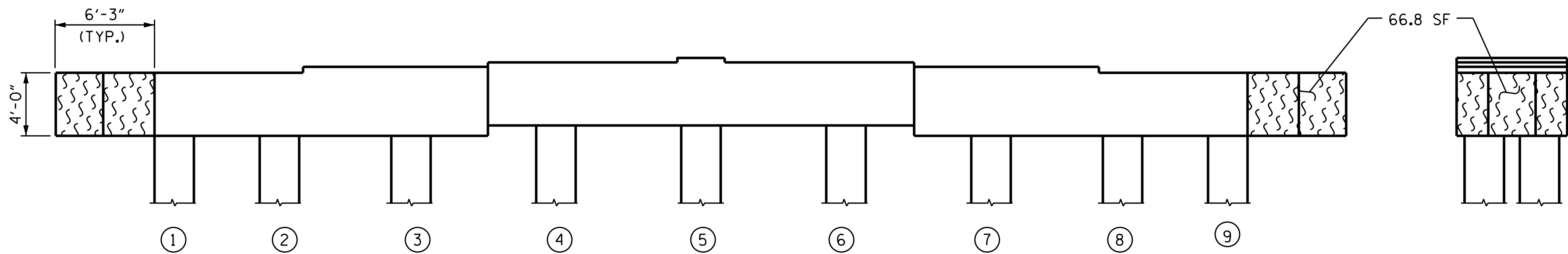
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-86
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2			4			217



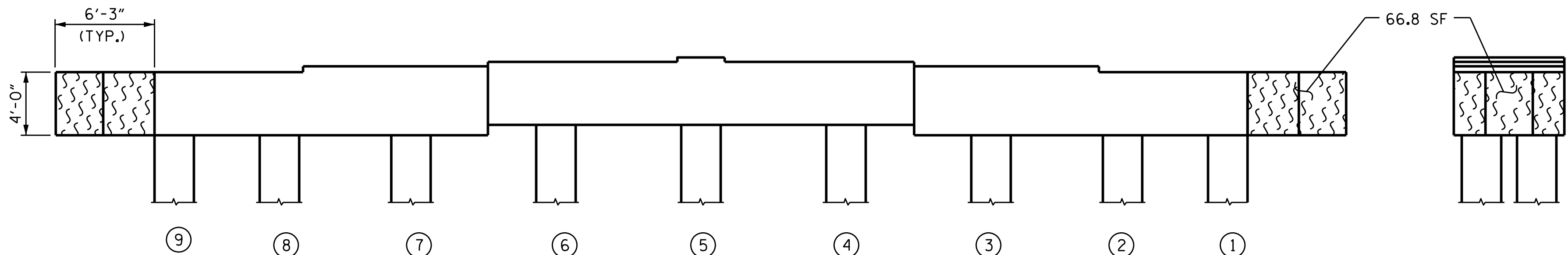
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 20
SPAN 19

SPAN 19
SPAN 20

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 19	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

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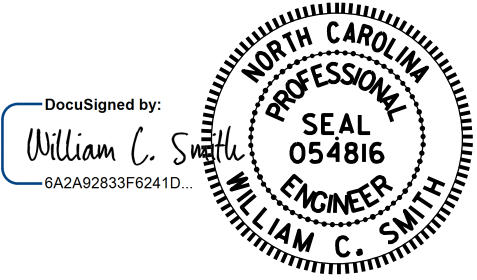
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 19 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 19



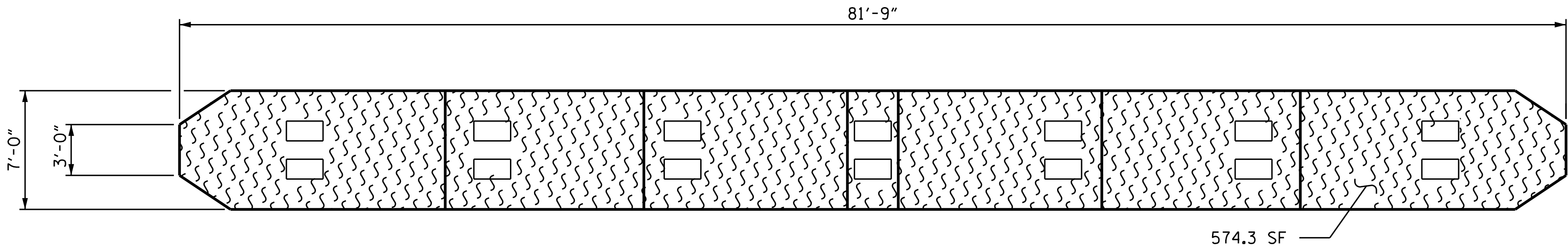
11/21/2025

DRAWN BY : S. T. SANDOR DATE : 5/2/24
CHECKED BY : W. C. SMITH DATE : 5/7/24

11/21/2025

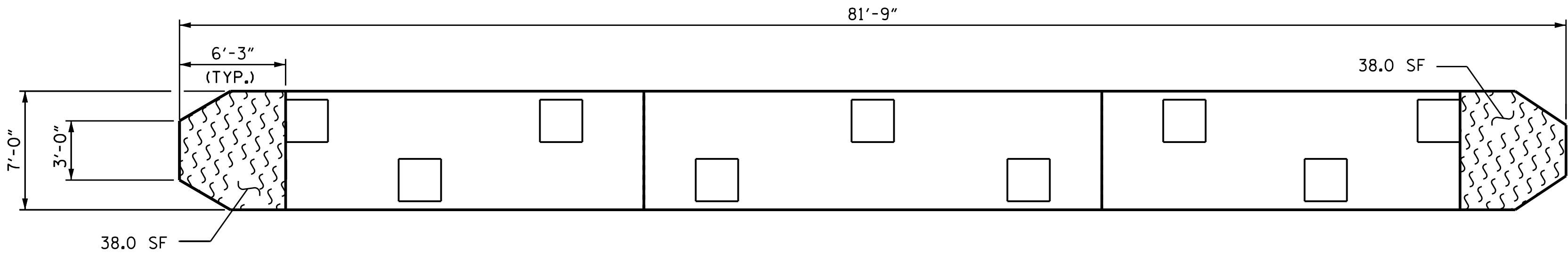
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-87
1			3			TOTAL SHEETS
2			4			217



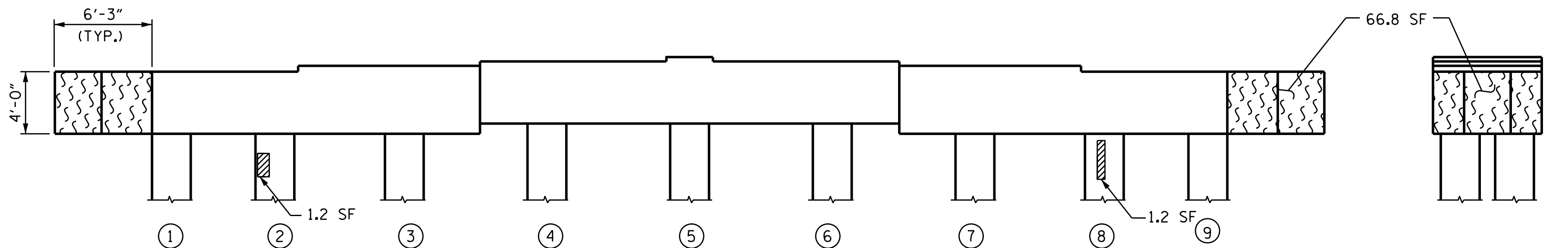
TOP VIEW OF CAP

SPAN 21
SPAN 20



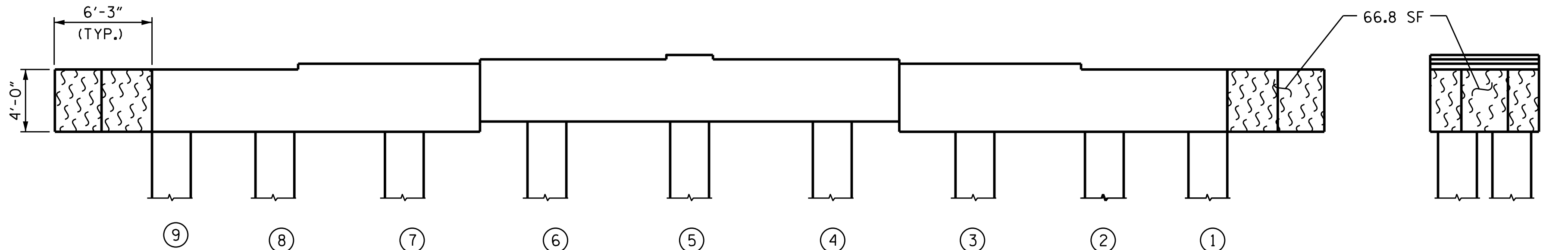
BOTTOM VIEW OF CAP

SPAN 20
SPAN 21



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 20	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	2.4	1.2		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

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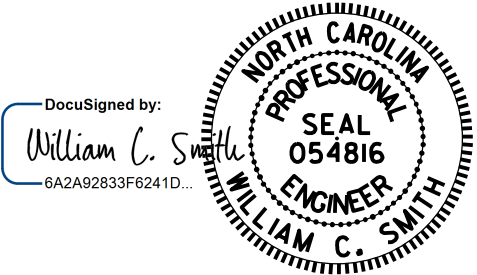
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- EPOXY RESIN INJECTION
- PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 20 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 20

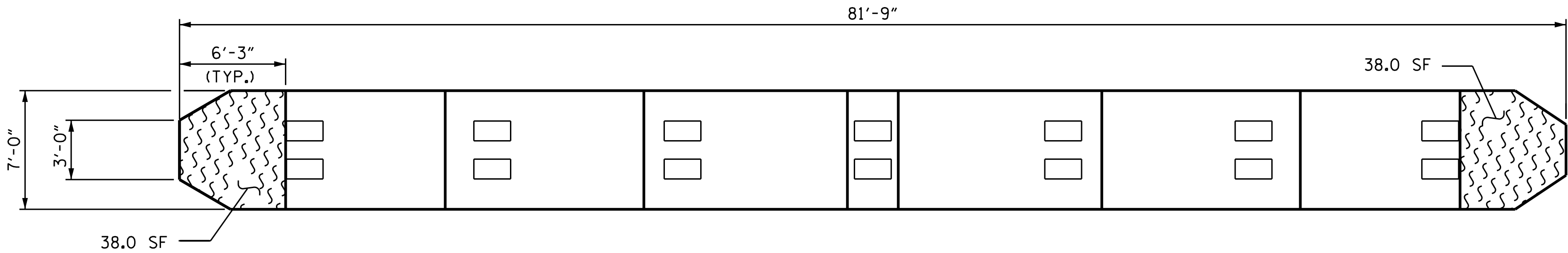


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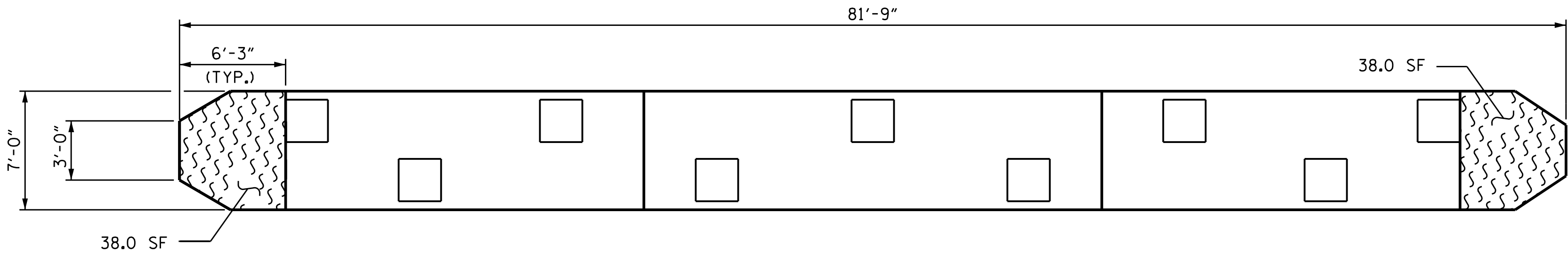
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CHECKED BY : W. C. SMITH DATE : 5/7/24

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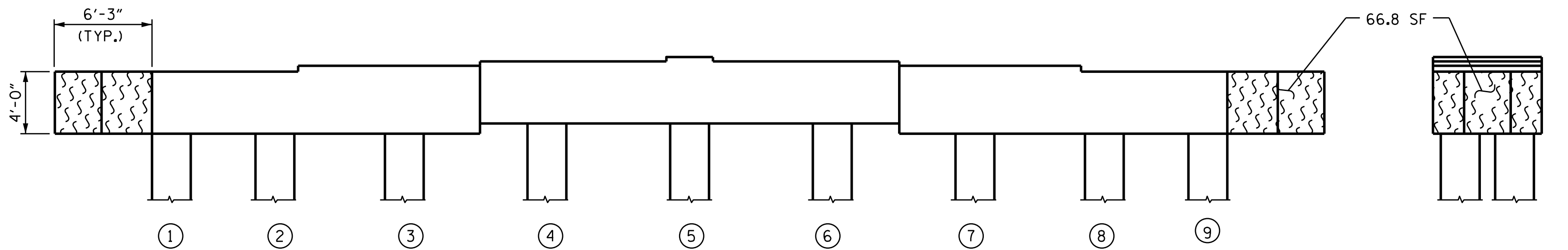
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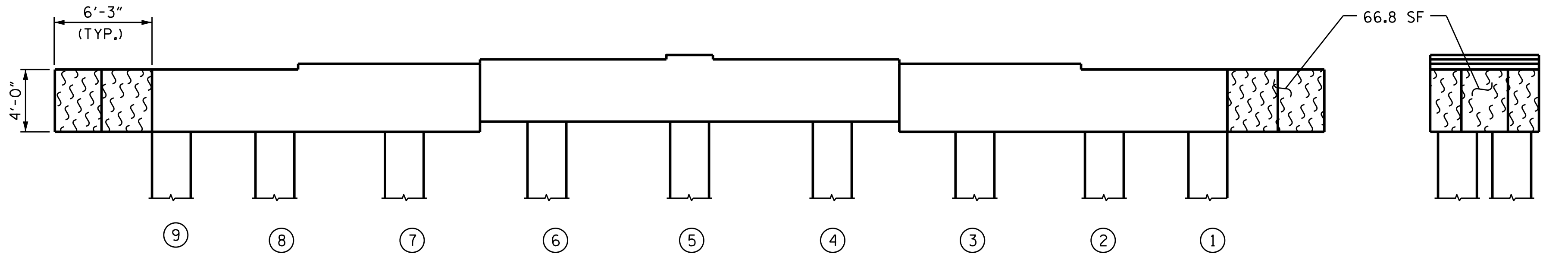
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 22
SPAN 21

SPAN 21
SPAN 22

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 21	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

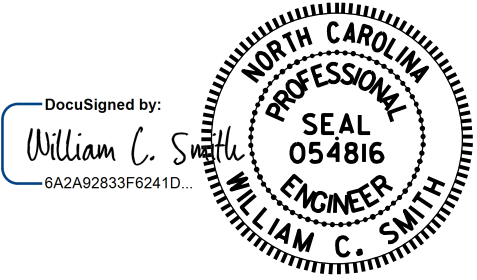
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
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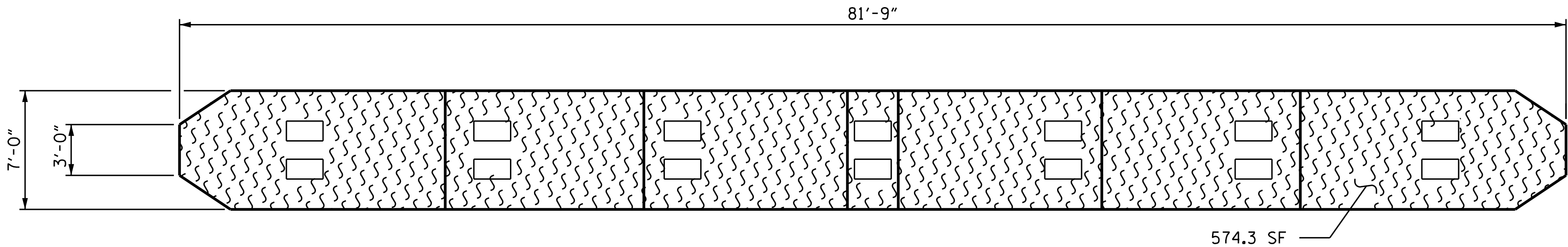


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DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR
BENT 21

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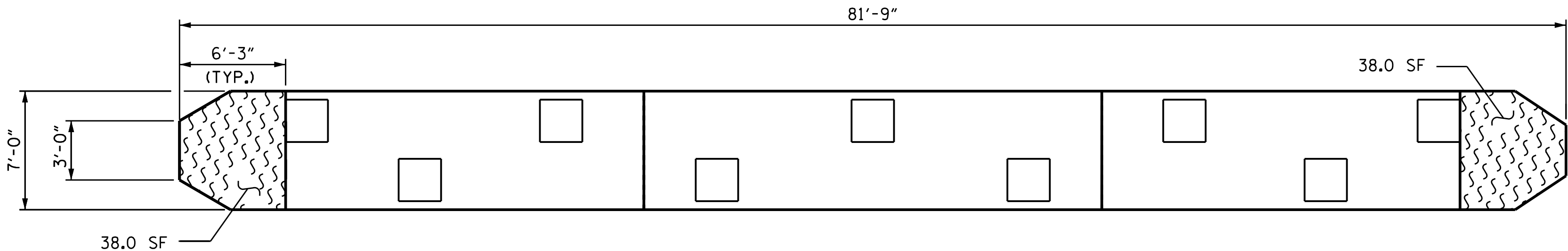
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2			4			TOTAL SHEETS 217



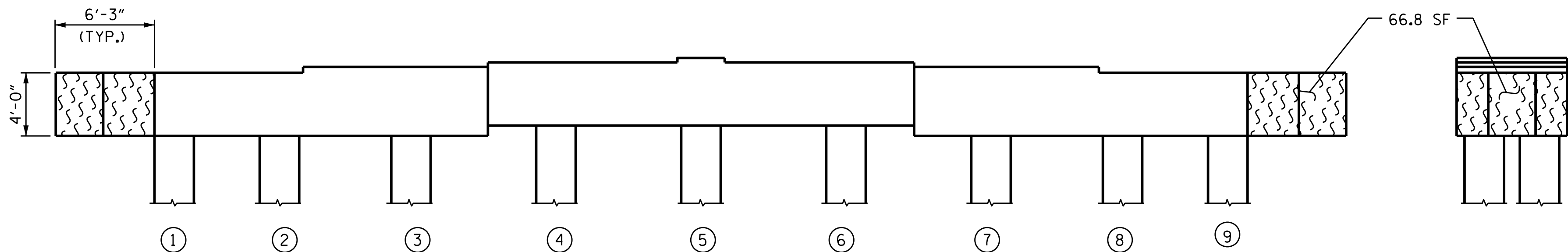
SPAN 23
SPAN 22

TOP VIEW OF CAP



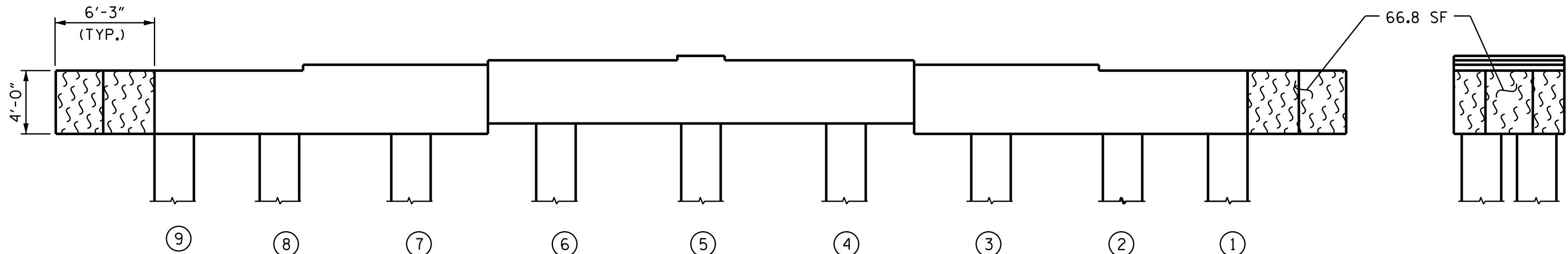
SPAN 22
SPAN 23

BOTTOM VIEW OF CAP



EAST END

ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 22	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

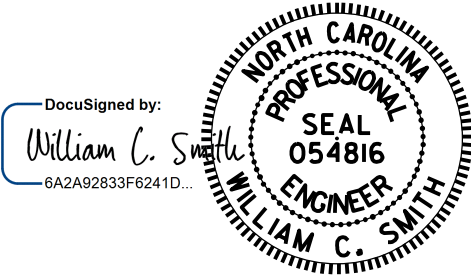
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

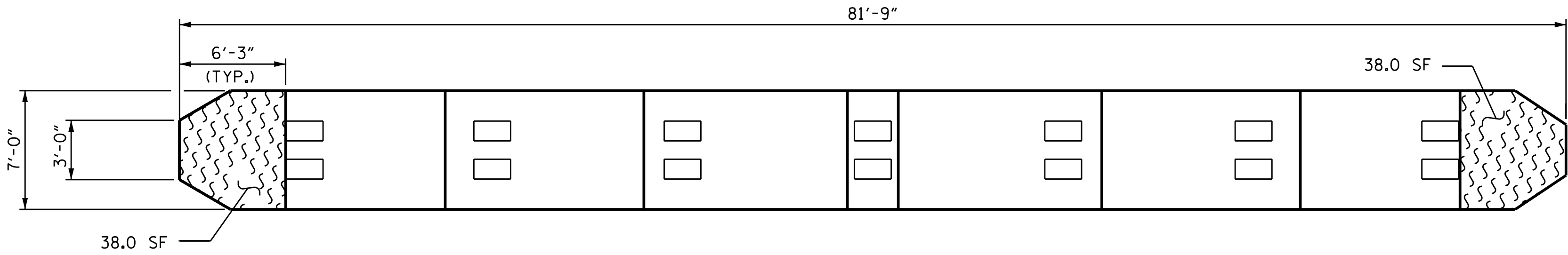
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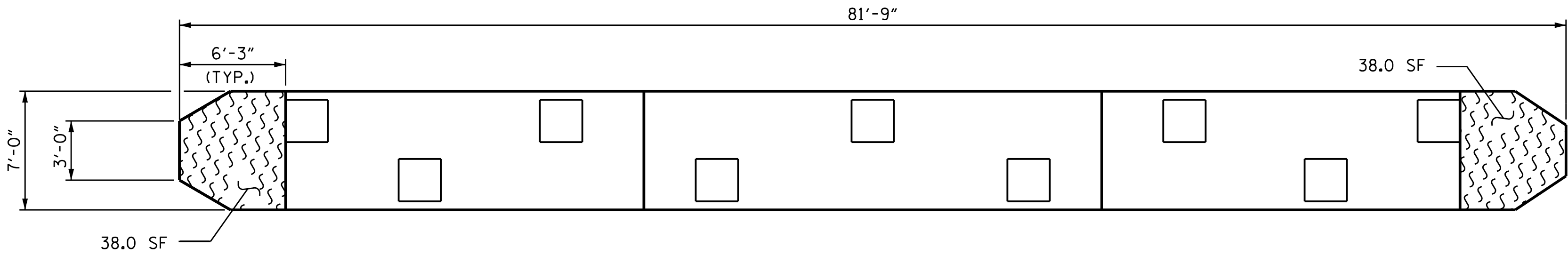
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-90
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2			4			217

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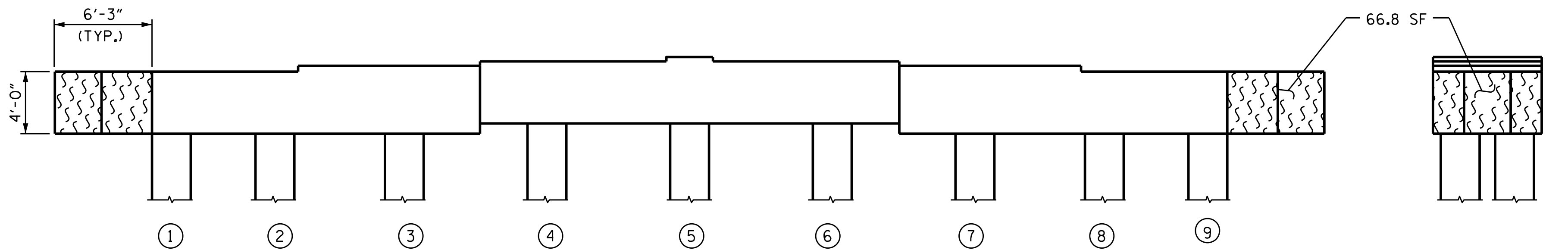
DRAWN BY : S. T. SANDOR DATE : 5/2/24
CHECKED BY : W. C. SMITH DATE : 5/7/24



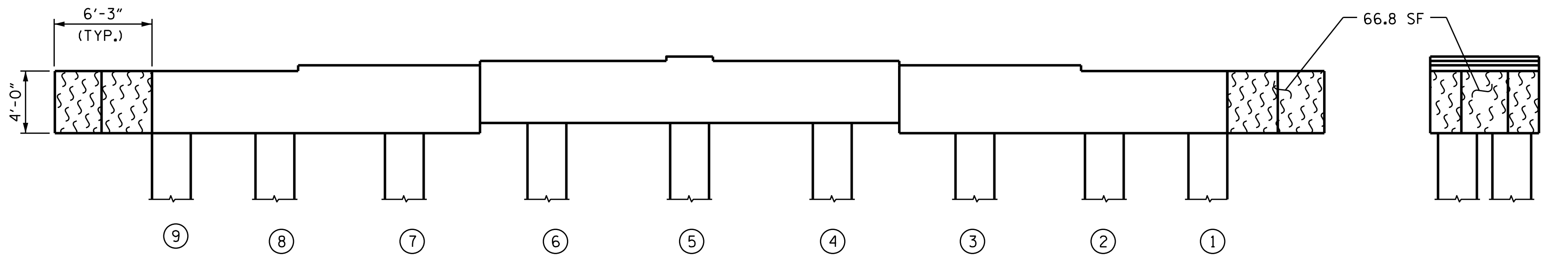
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 24
SPAN 23

SPAN 23
SPAN 24

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 23	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

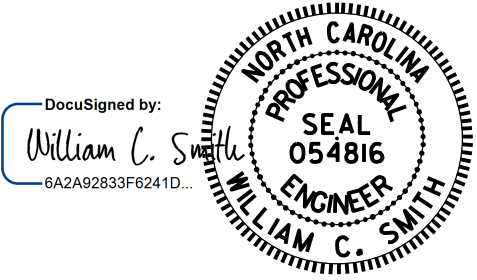
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 23



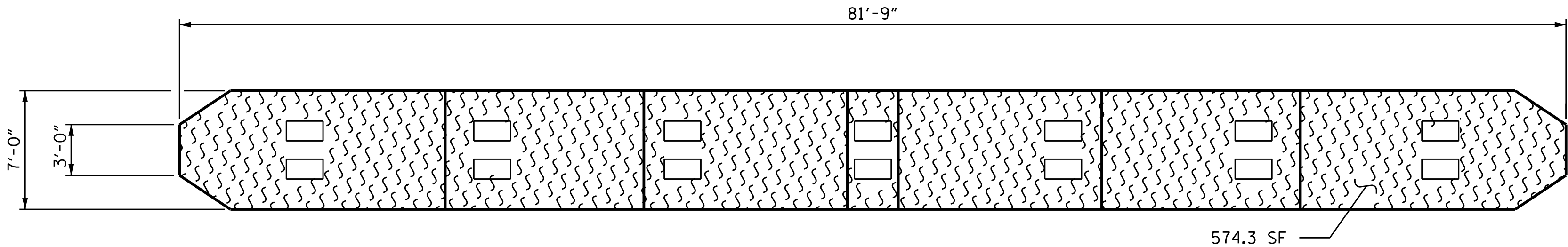
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11/21/2025

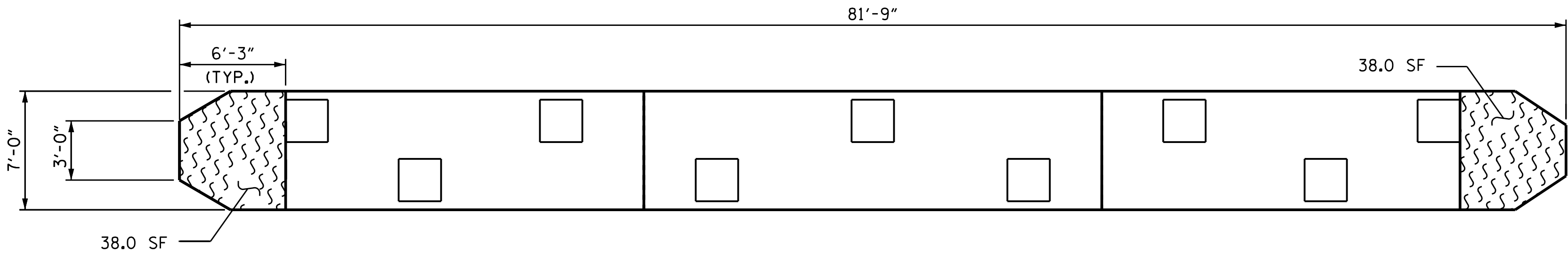
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2			4			TOTAL SHEETS 217



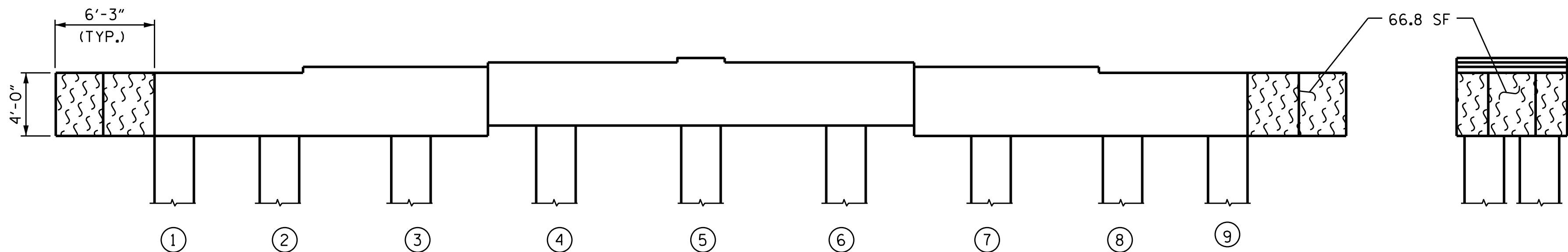
SPAN 25
SPAN 24

TOP VIEW OF CAP



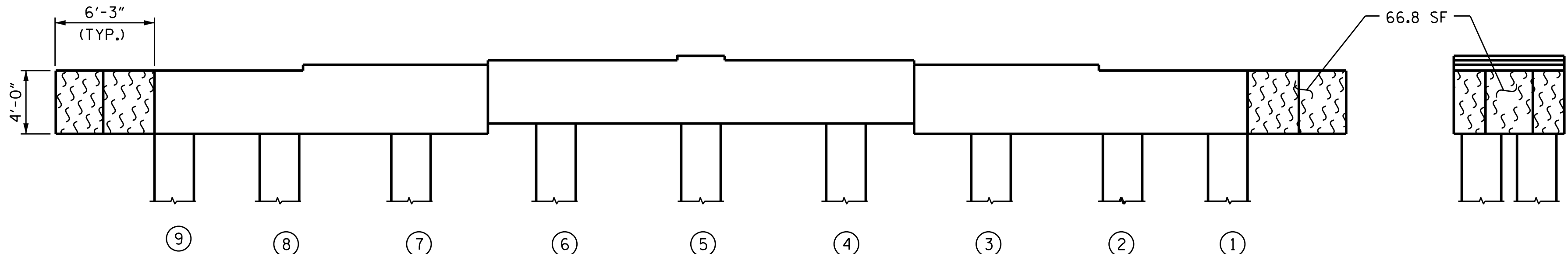
SPAN 24
SPAN 25

BOTTOM VIEW OF CAP



EAST END

ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 24	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

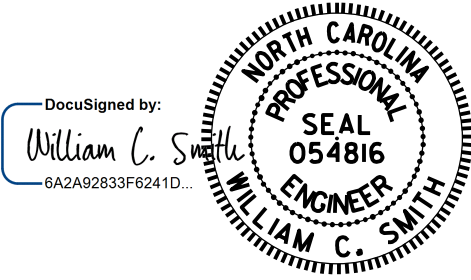
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

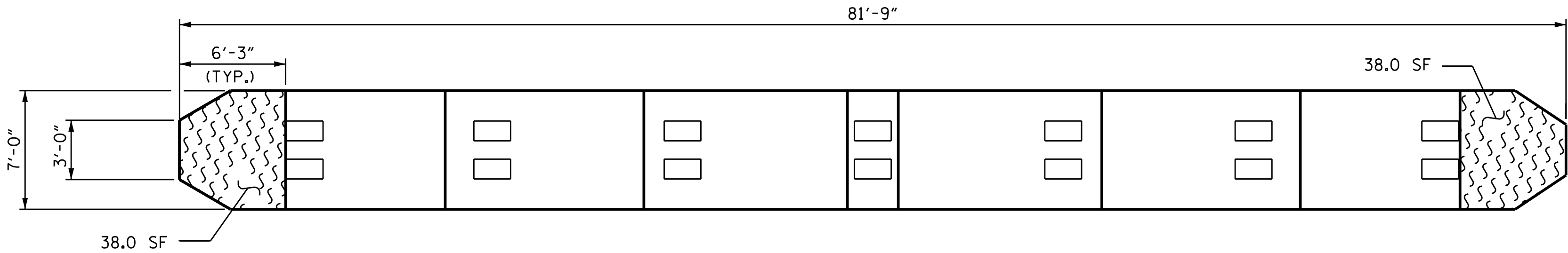
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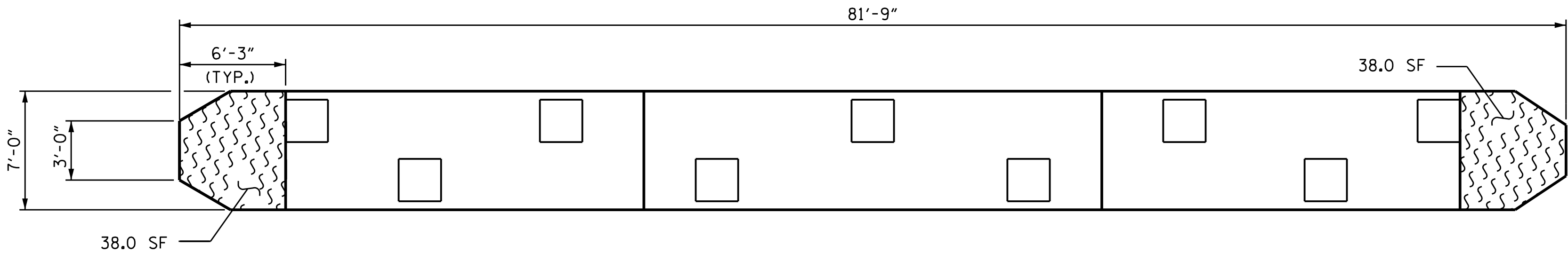
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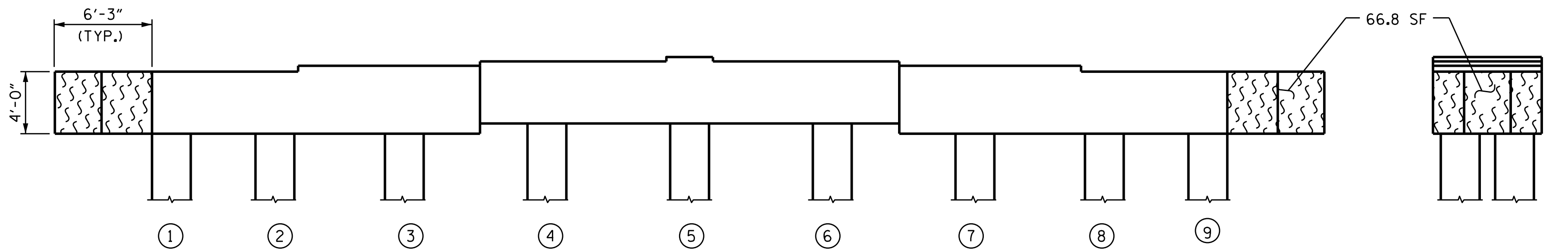
DRAWN BY : S. T. SANDOR DATE : 5/2/24
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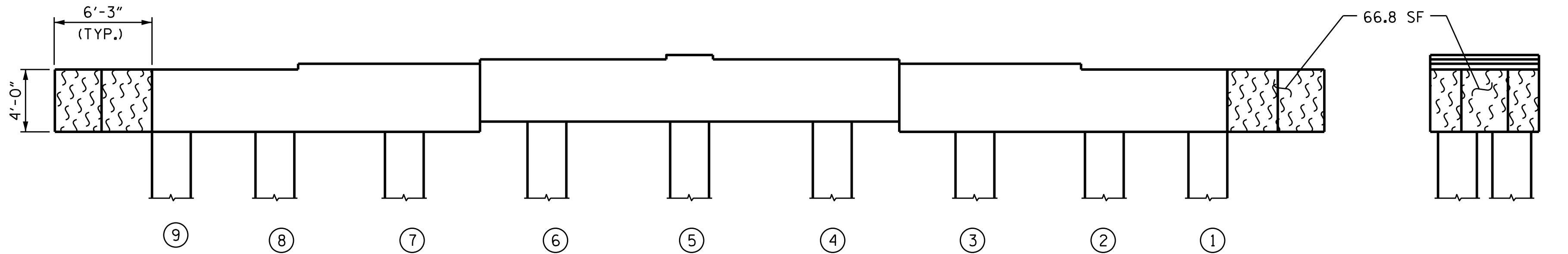
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 26
SPAN 25

SPAN 26
SPAN 25

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 25	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

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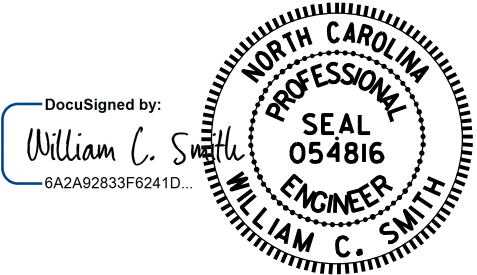
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 25



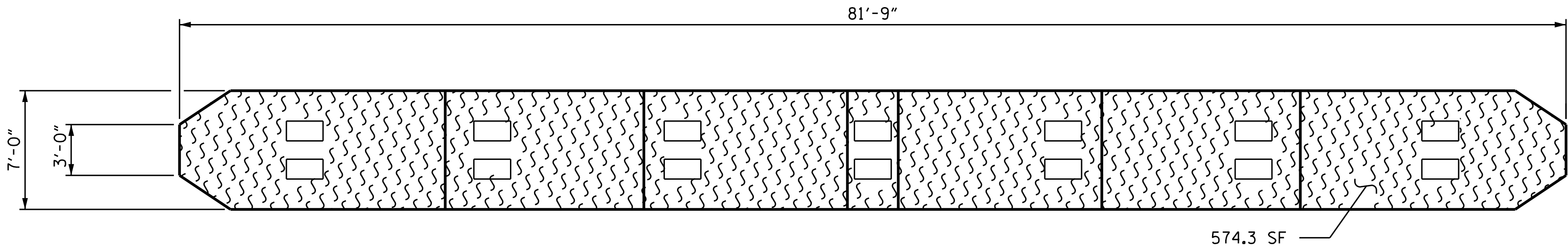
11/21/2025

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CHECKED BY : W. C. SMITH DATE : 5/7/24

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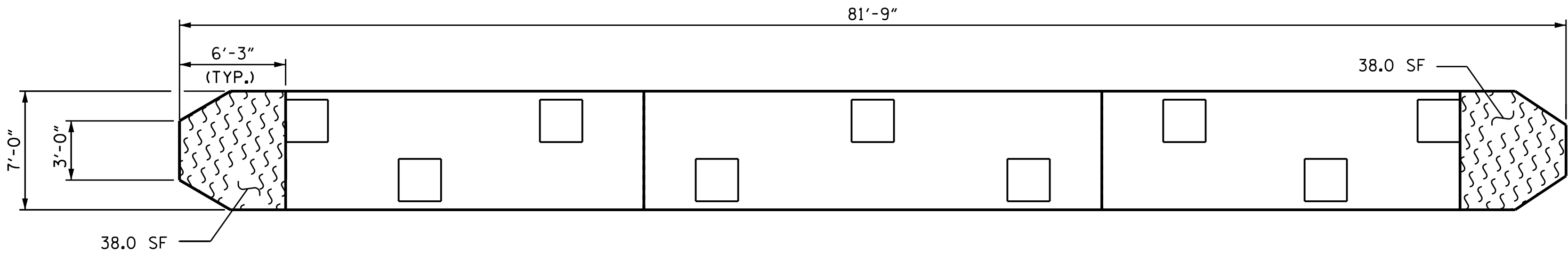
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1			3			TOTAL SHEETS
2			4			217



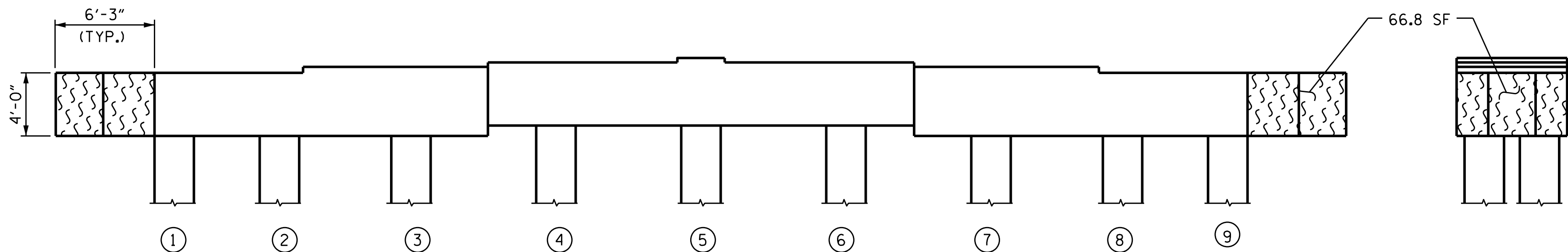
TOP VIEW OF CAP

SPAN 27
SPAN 26



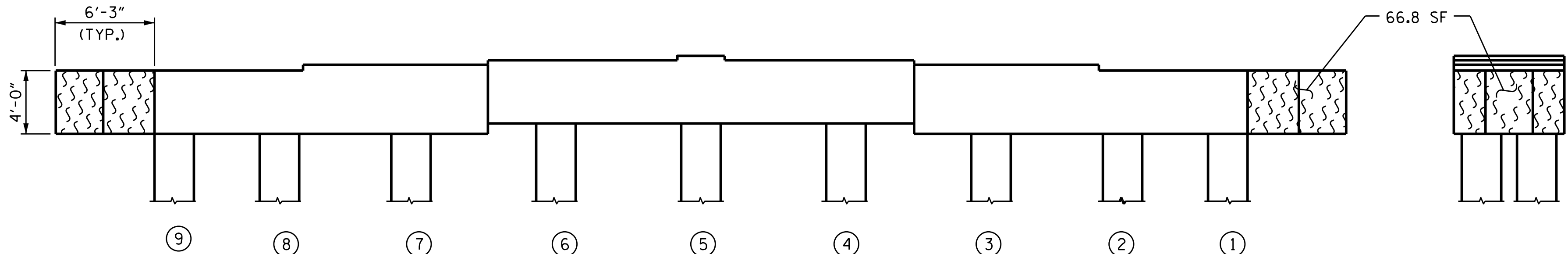
BOTTOM VIEW OF CAP

SPAN 26
SPAN 27



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 26	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

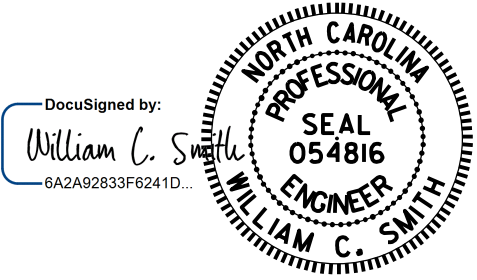
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

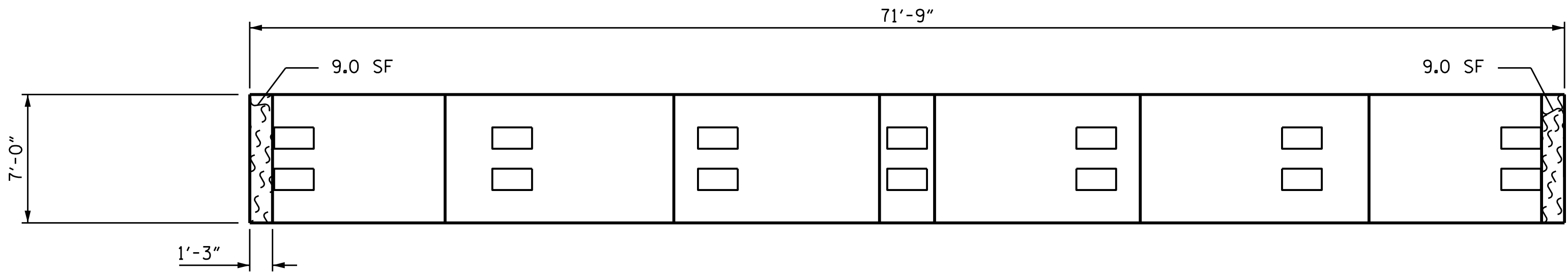
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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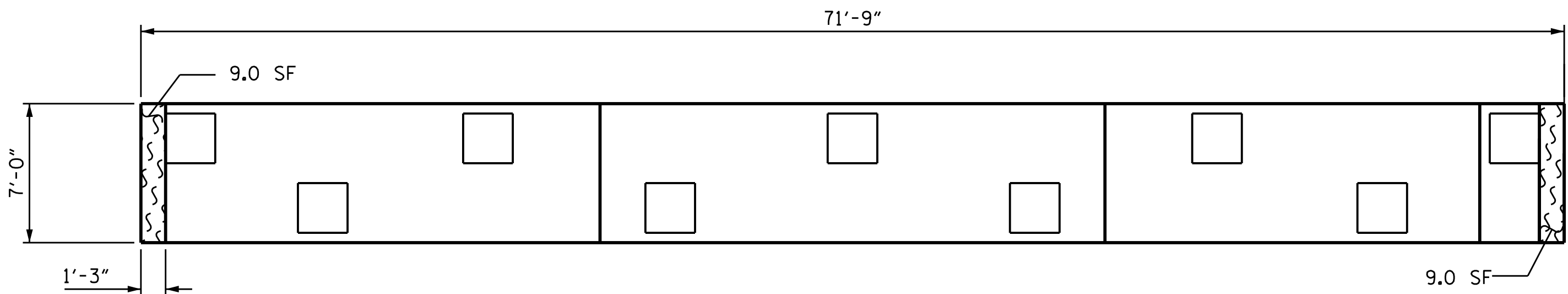


STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE REPAIR					
BENT 26					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
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2			4		
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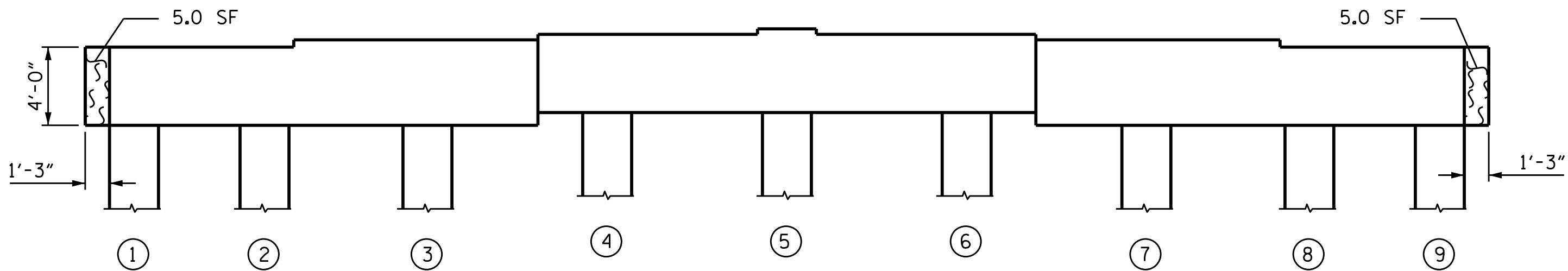
DRAWN BY : S. T. SANDOR DATE : 5/2/24
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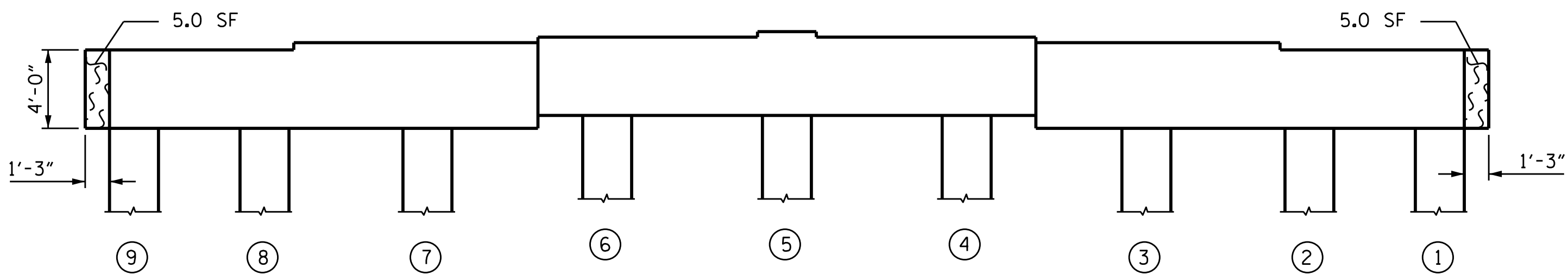
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



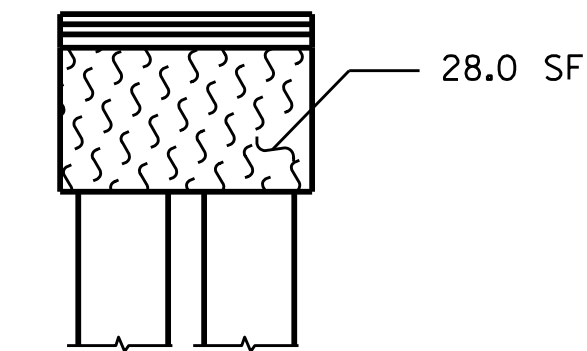
ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



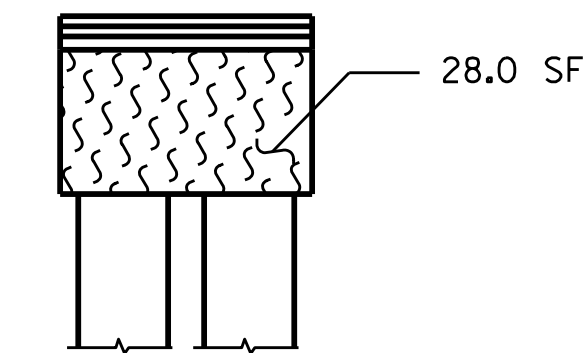
ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 28
SPAN 27

SPAN 27
SPAN 28



EAST END



WEST END

REPAIR QUANTITY TABLE

BENT 27	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		112.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

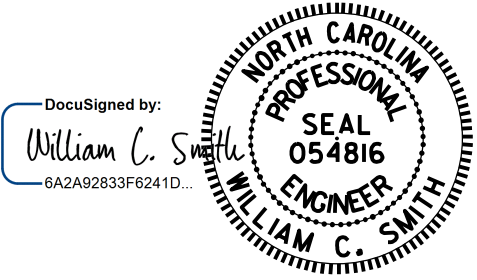
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
BRIDGE NO. 060353

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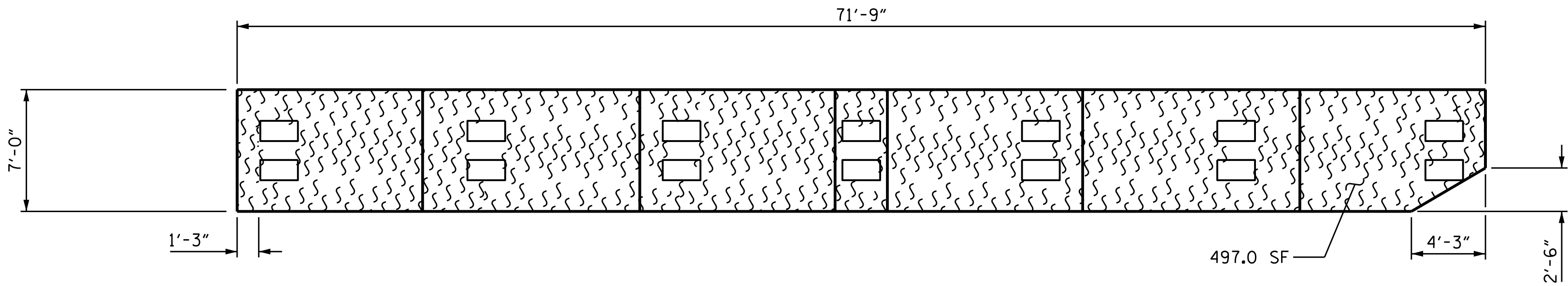


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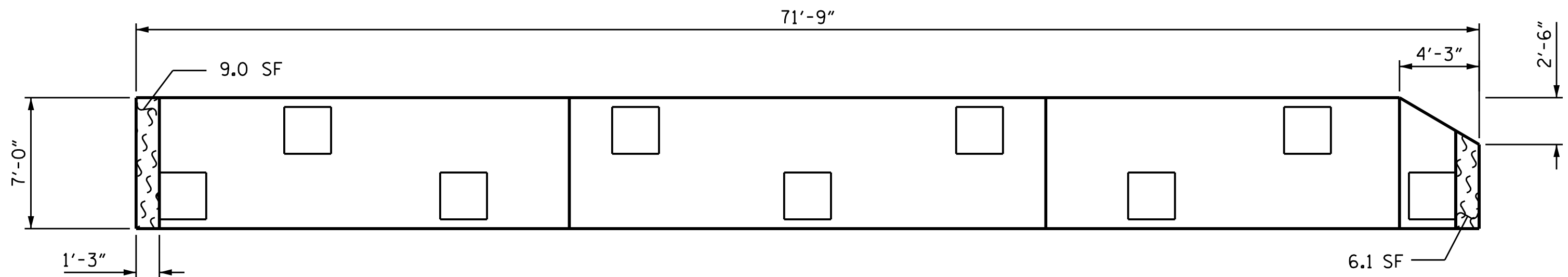
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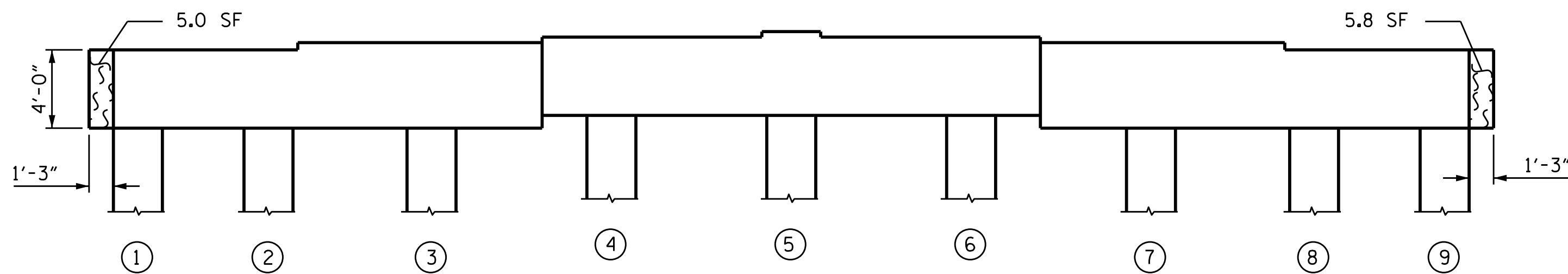
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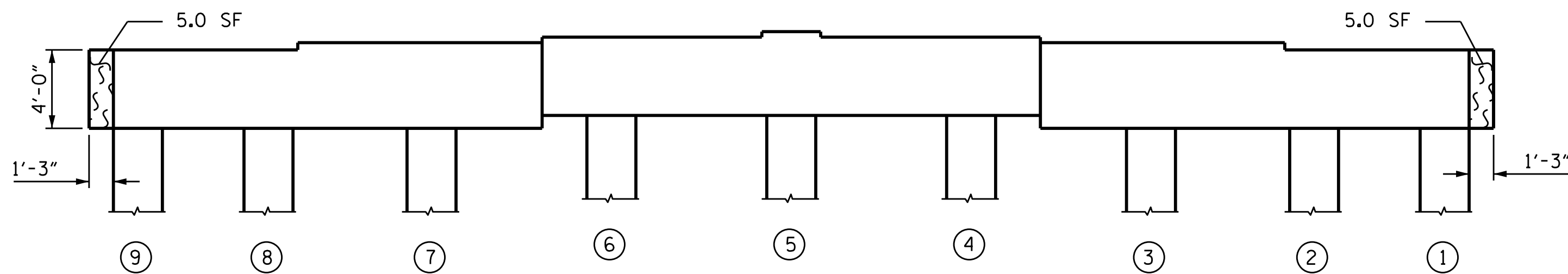
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



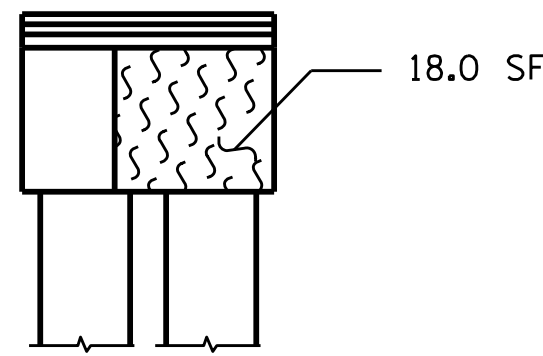
ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



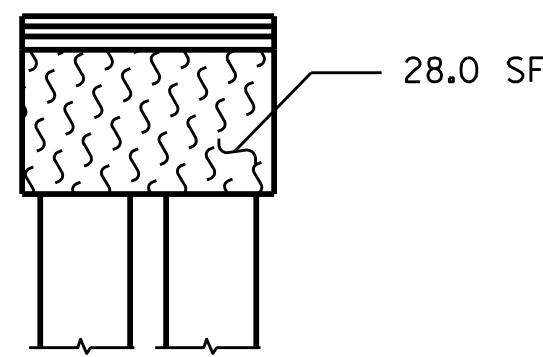
ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 29
SPAN 28

SPAN 28
SPAN 29



EAST END



WEST END

REPAIR QUANTITY TABLE

BENT 28	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		578.9		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

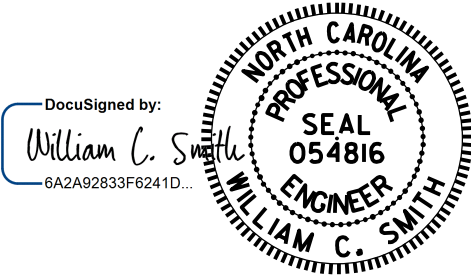
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR
BENT 28

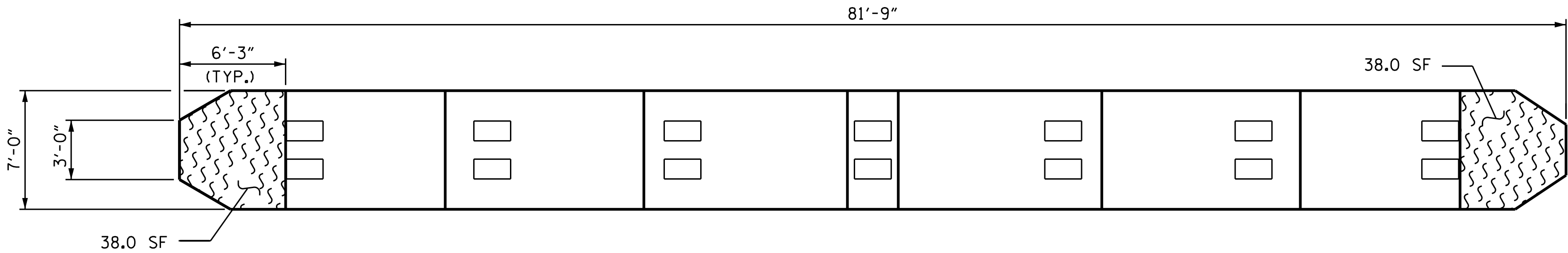


11/21/2025

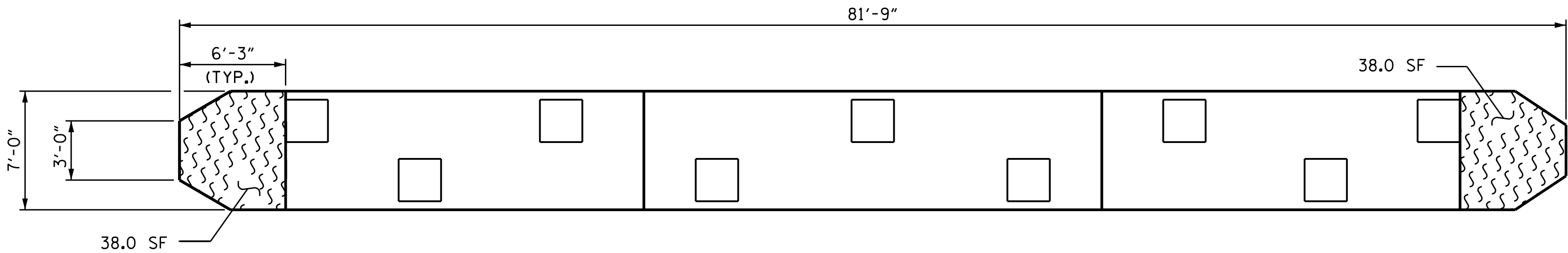
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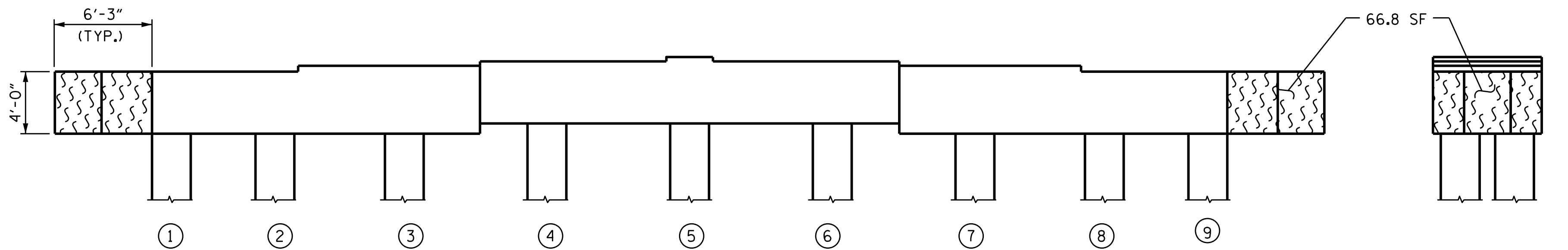
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2			4			TOTAL SHEETS 217



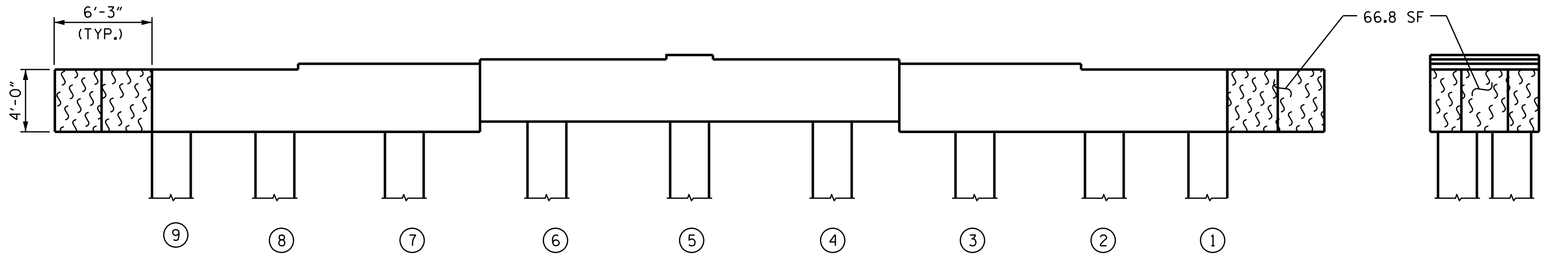
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 30
SPAN 29

SPAN 29
SPAN 30

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 29	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

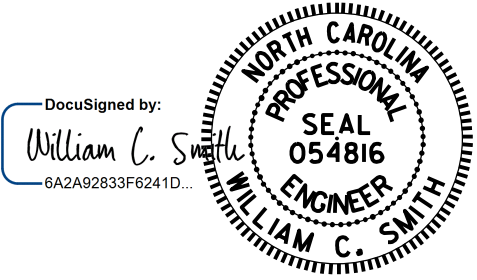
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

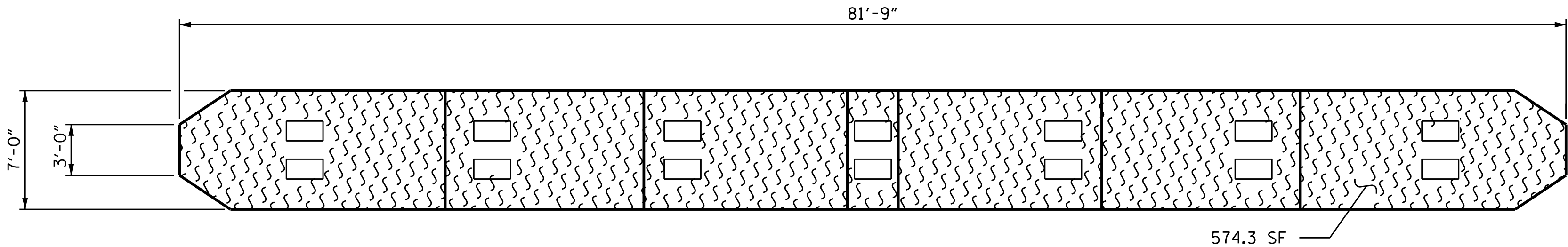
SHEET 29 OF 140



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE REPAIR					
BENT 29					
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S-97					217

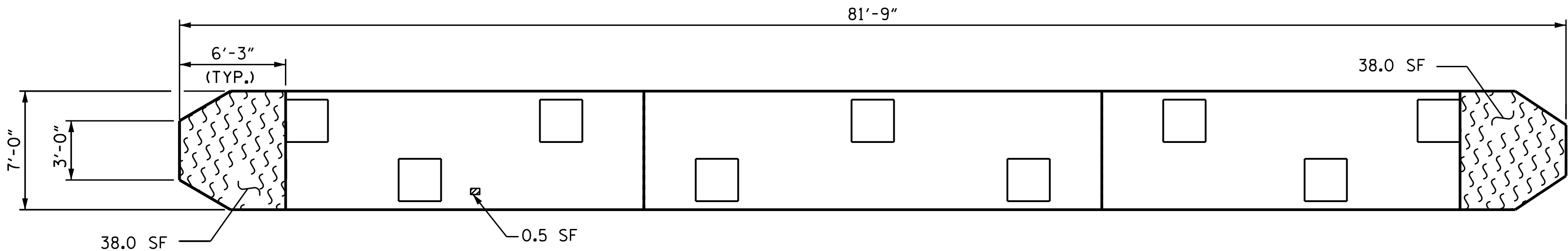
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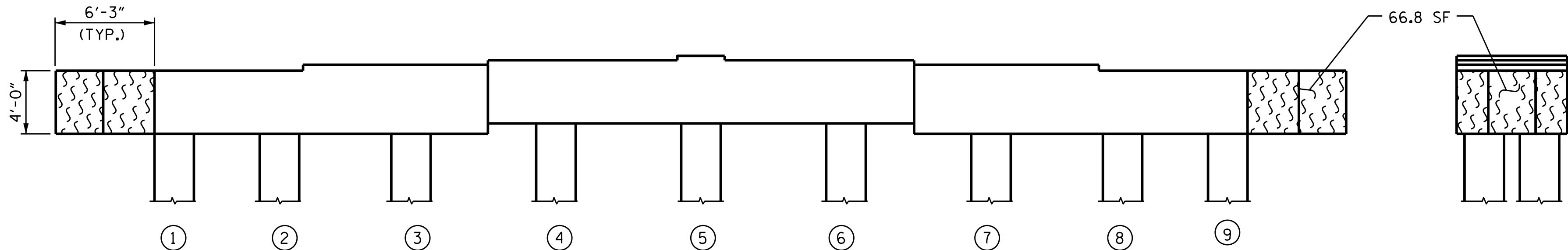
TOP VIEW OF CAP

SPAN 31
SPAN 30



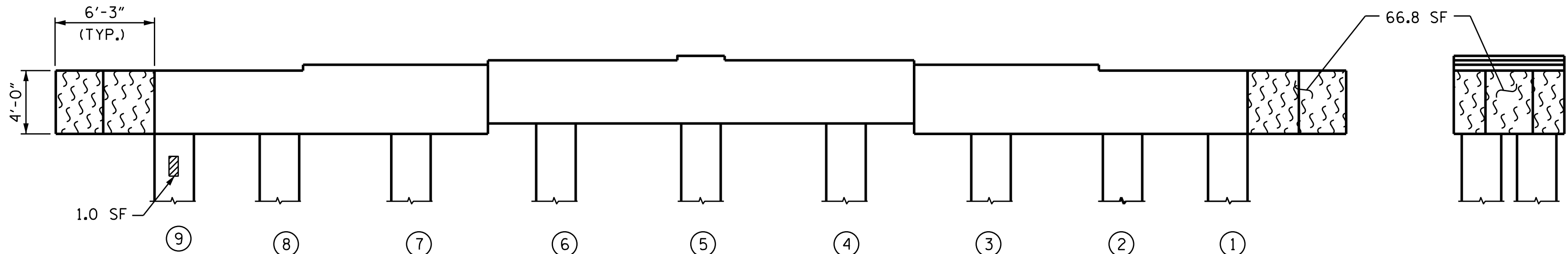
BOTTOM VIEW OF CAP

SPAN 30
SPAN 31



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 30	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.5	0.3		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	1.0	0.5		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

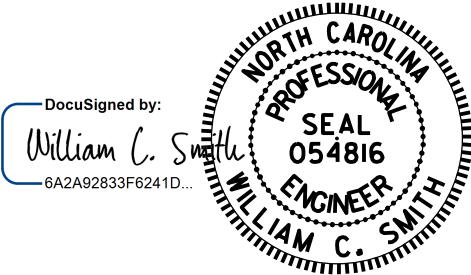
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 30 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 30

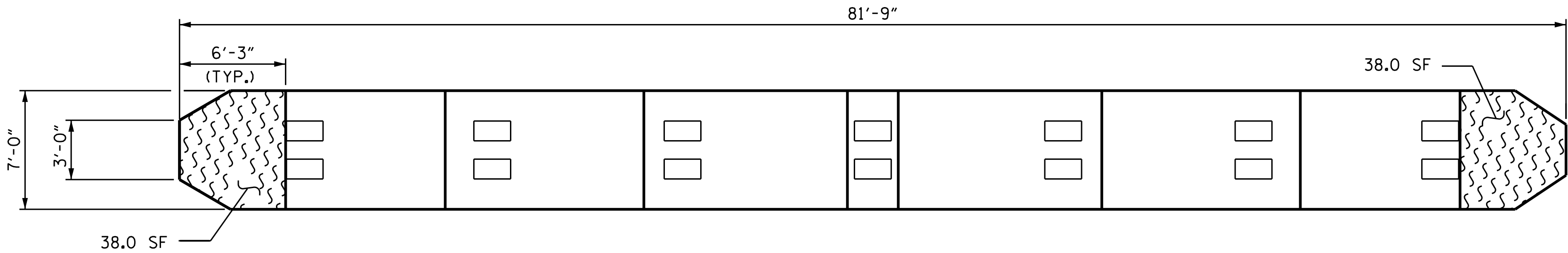


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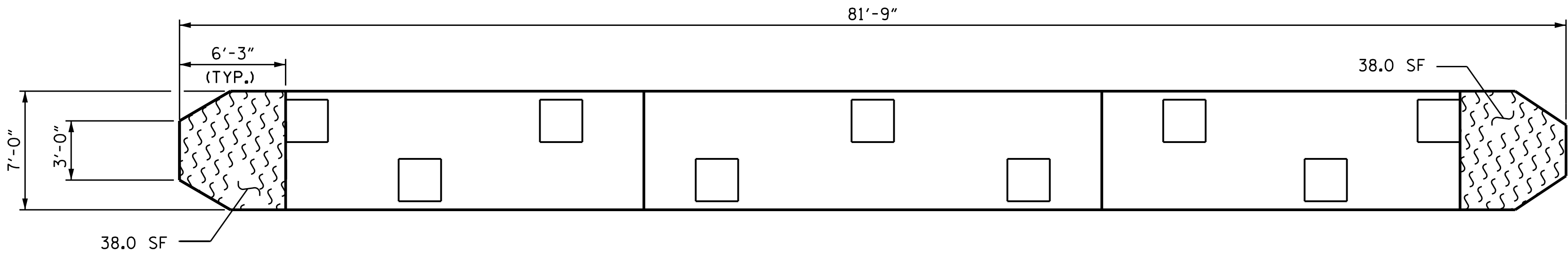
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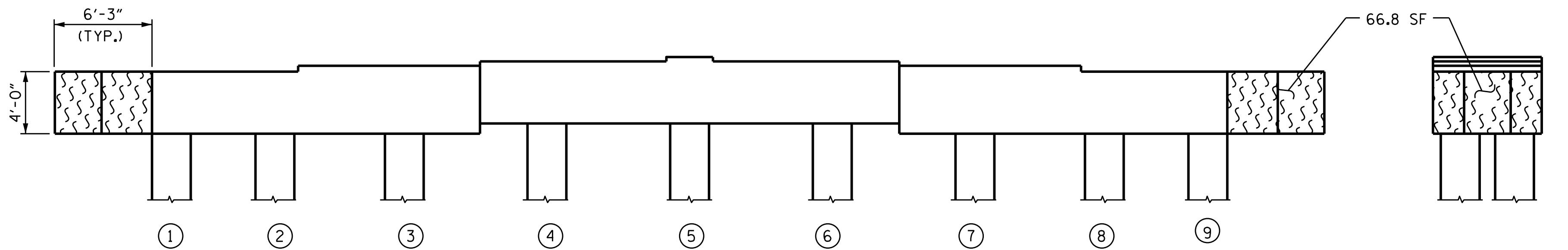
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2			4			TOTAL SHEETS 217



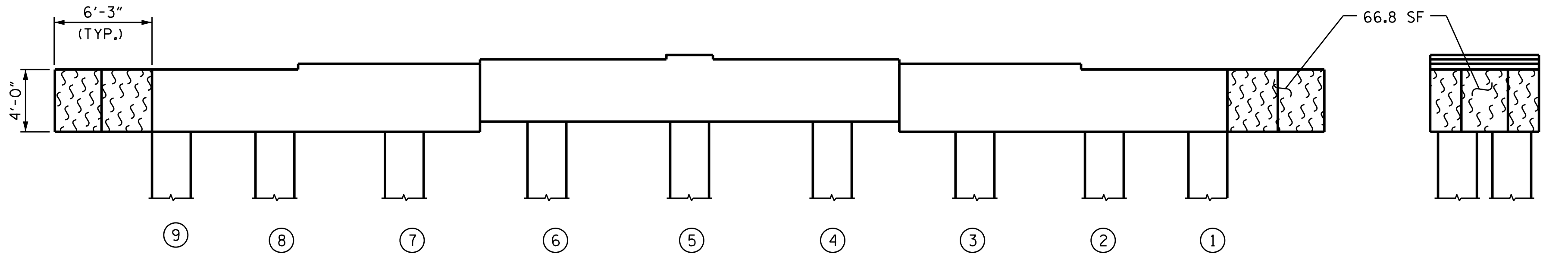
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 32
SPAN 31

SPAN 31
SPAN 32

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 31	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

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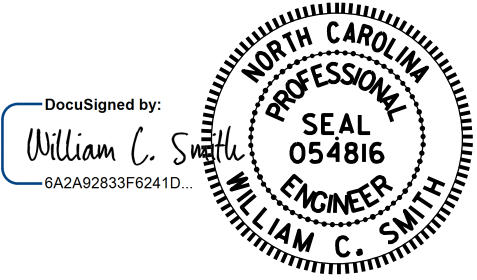
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 31



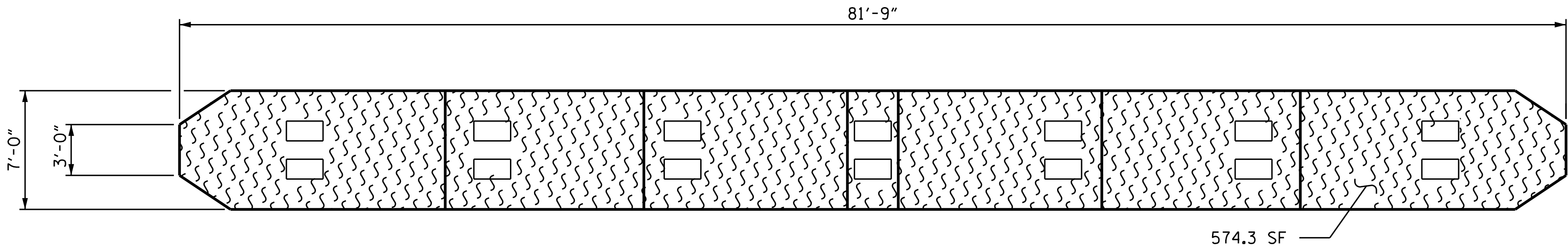
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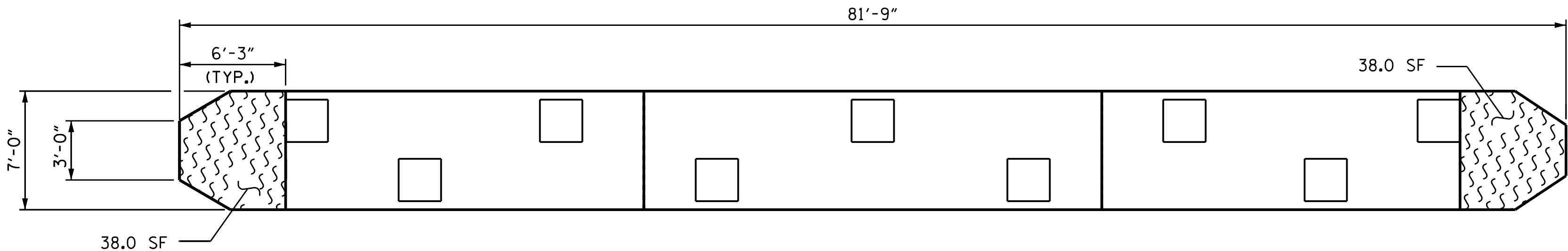
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2			4			217



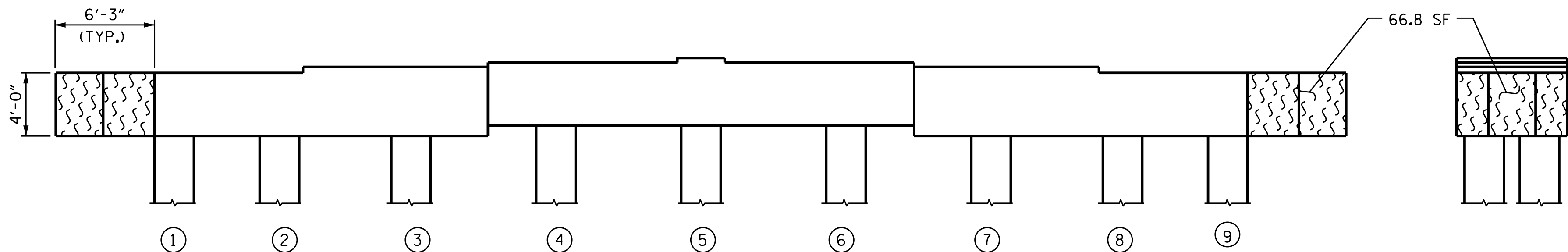
SPAN 33
SPAN 32

TOP VIEW OF CAP



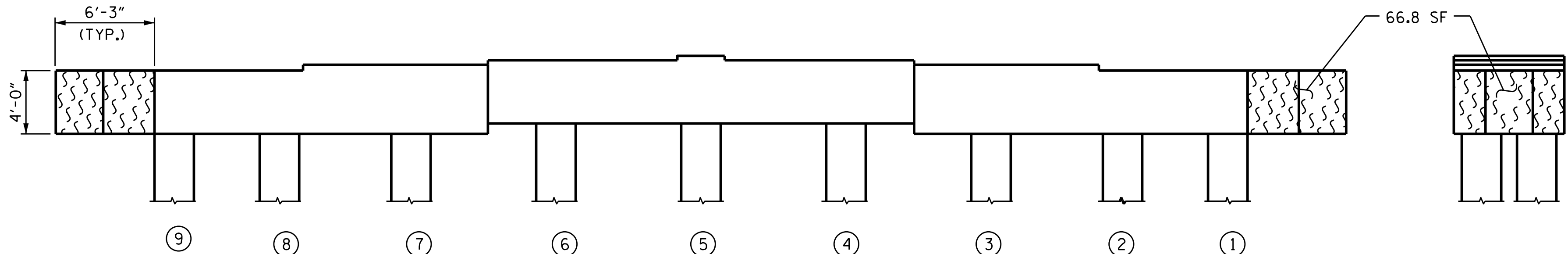
SPAN 32
SPAN 33

BOTTOM VIEW OF CAP



EAST END

ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 32	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

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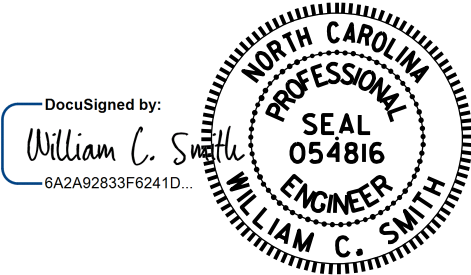
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 32

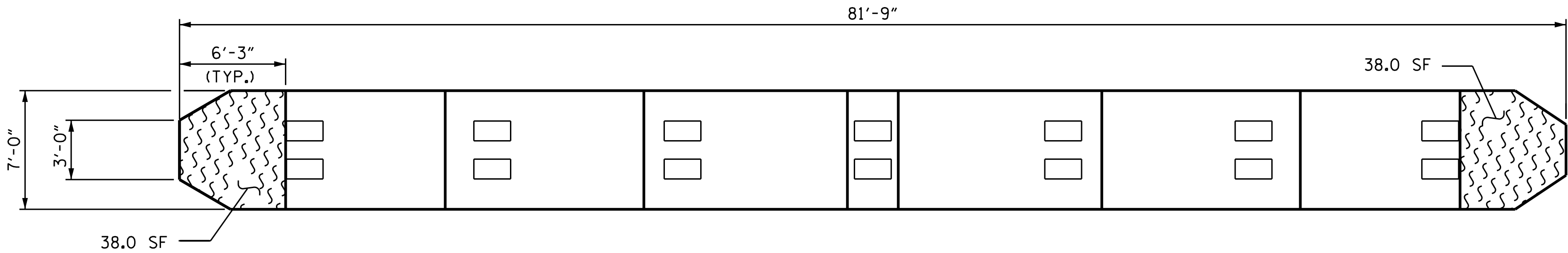


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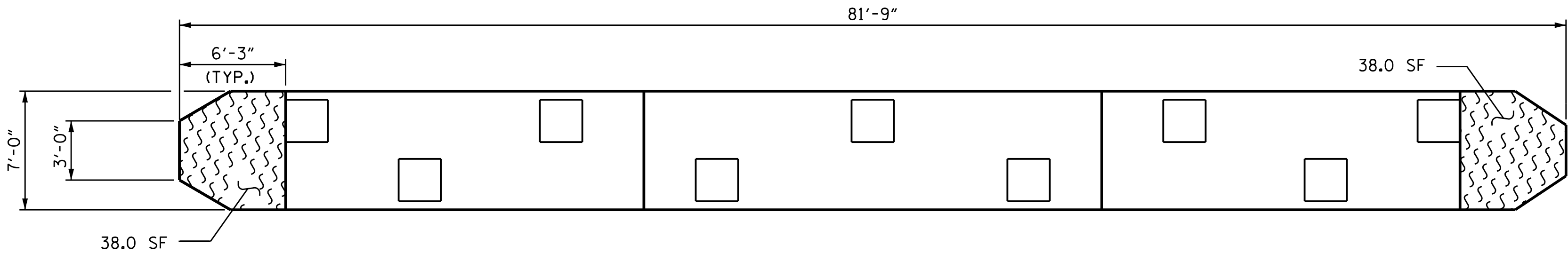
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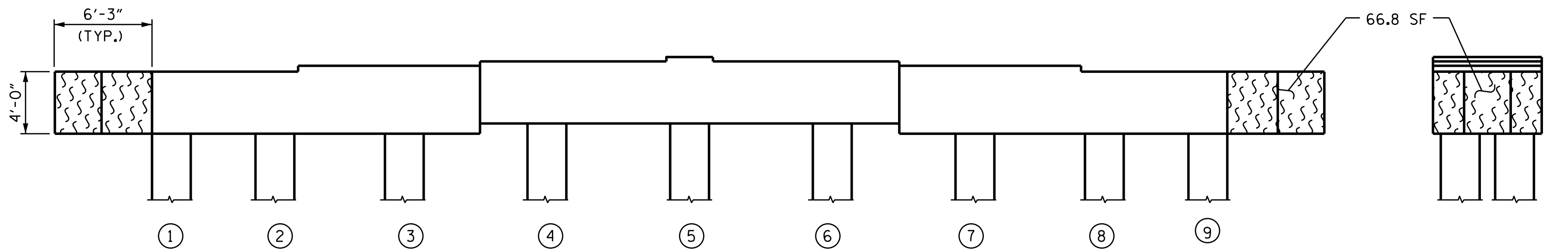
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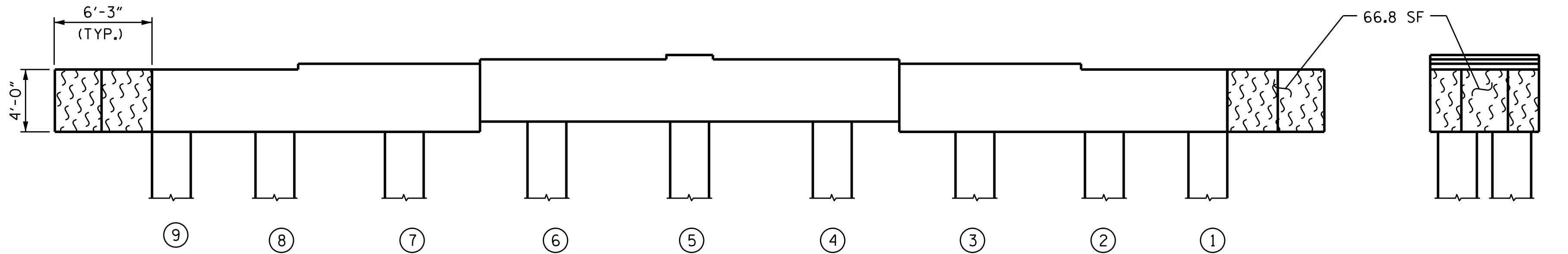
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 34
SPAN 33

SPAN 33
SPAN 34

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 33	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

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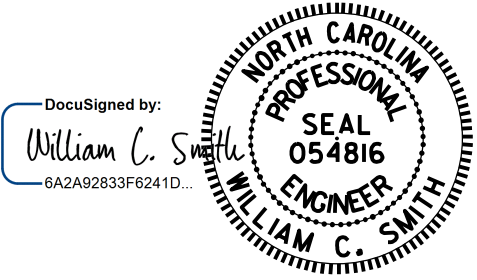
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 33 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 33



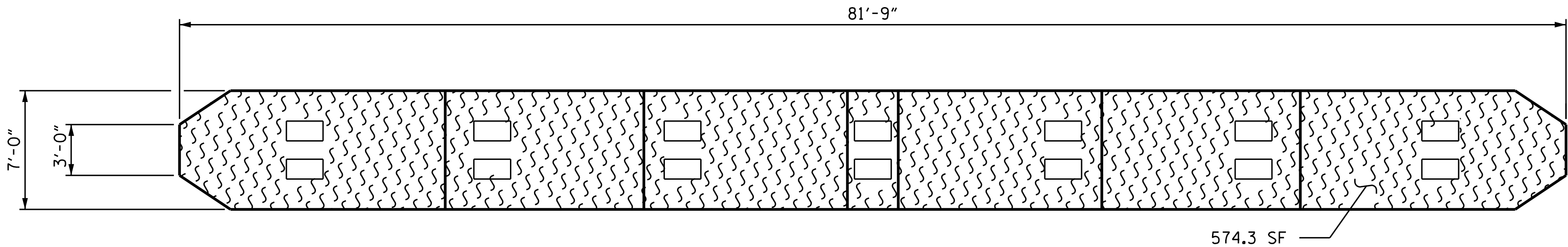
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DRAWN BY : S. T. SANDOR DATE : 6/18/24
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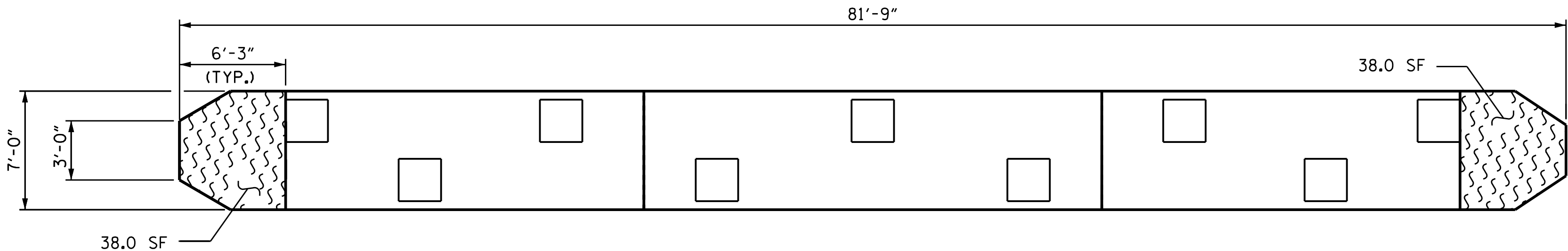
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2			4			TOTAL SHEETS 217



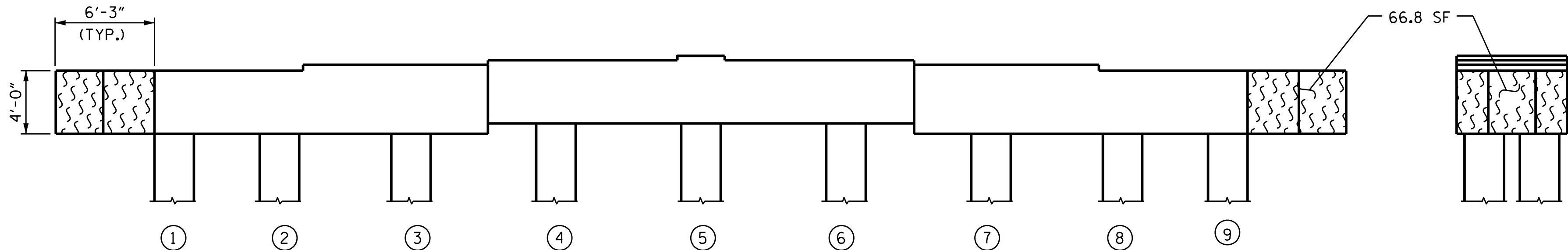
TOP VIEW OF CAP

SPAN 35
SPAN 34



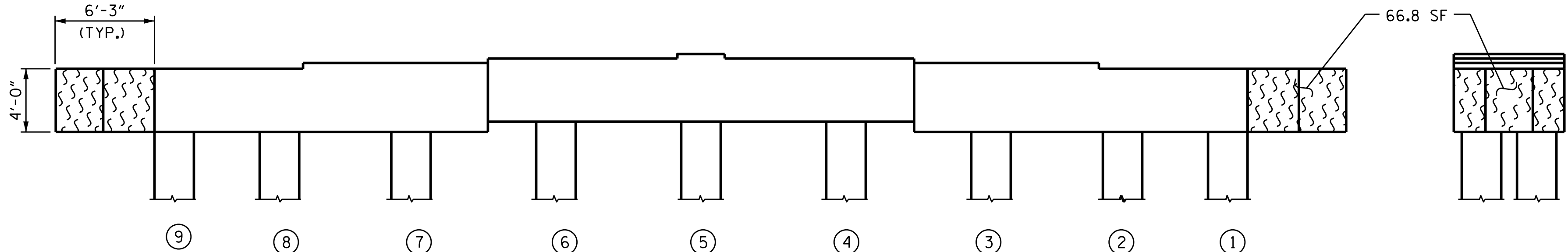
BOTTOM VIEW OF CAP

SPAN 34
SPAN 35



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 34	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

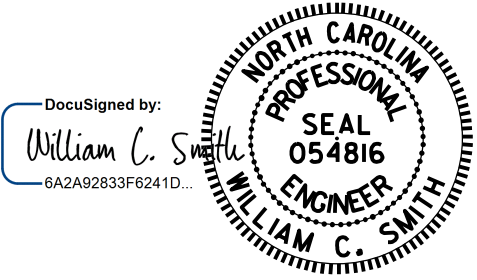
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

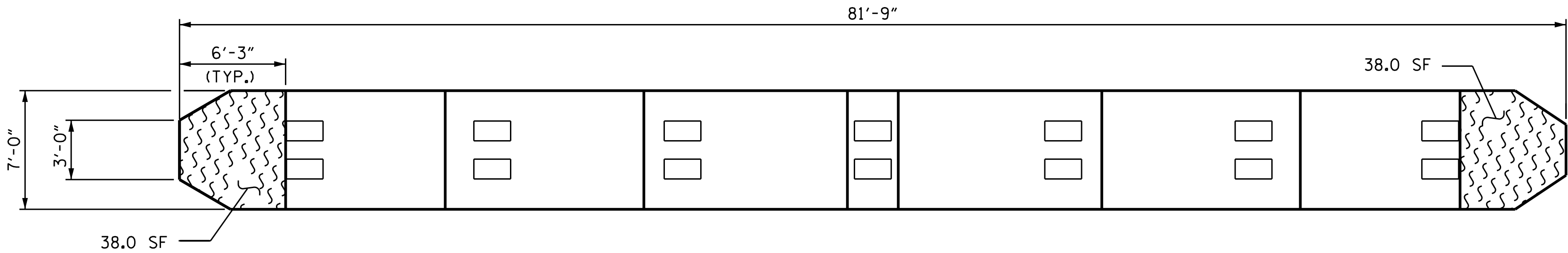
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 34 OF 140

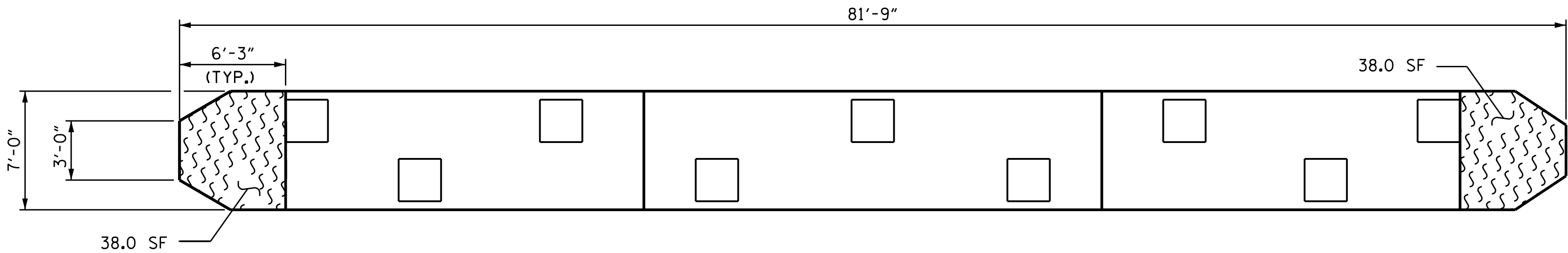


STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE REPAIR					
BENT 34					
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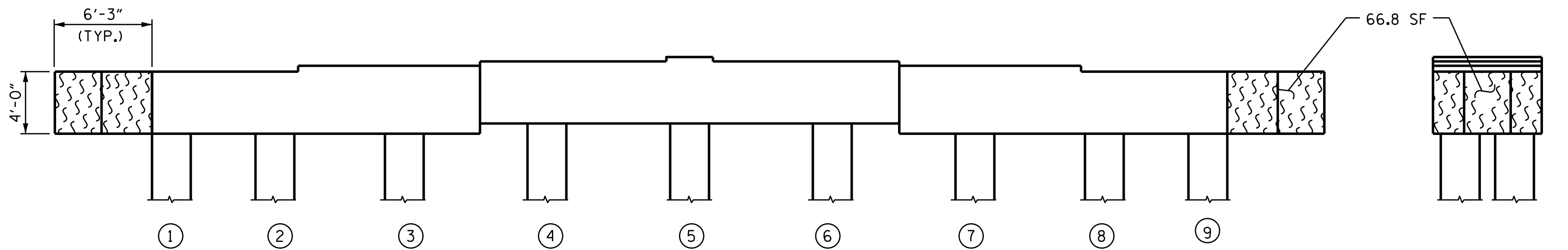
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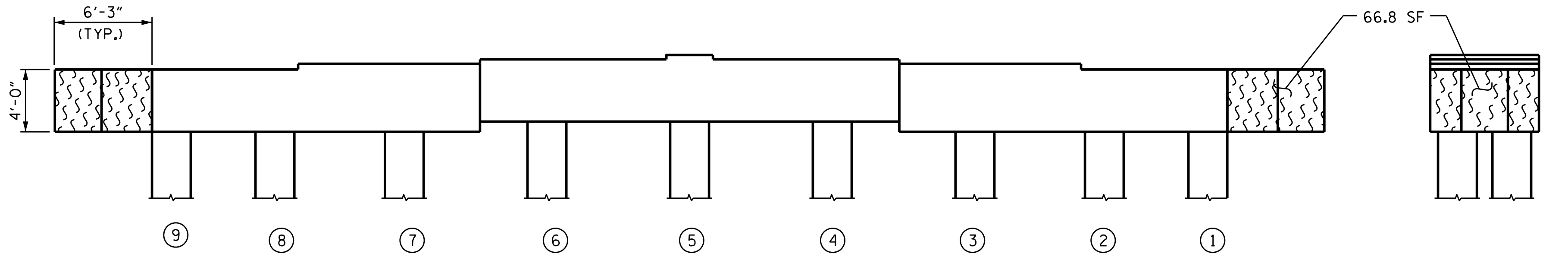
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 36
SPAN 35

SPAN 35
SPAN 36

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 35	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

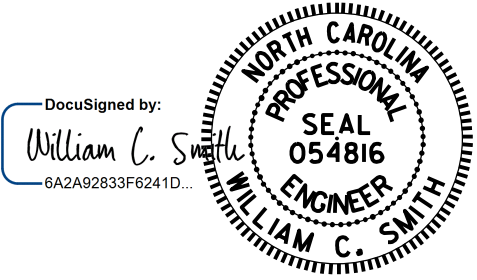
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 35 OF 140



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 35

REVISIONS

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

SHEET NO.

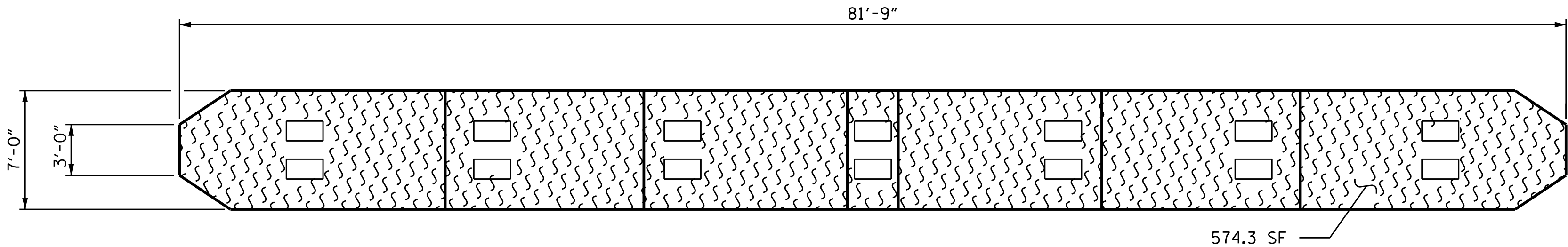
S-103

TOTAL SHEETS

217

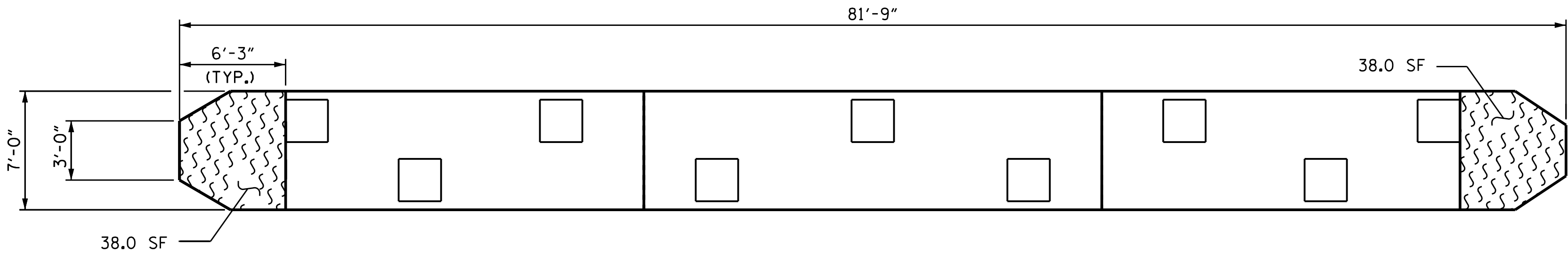
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DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 7/08/24



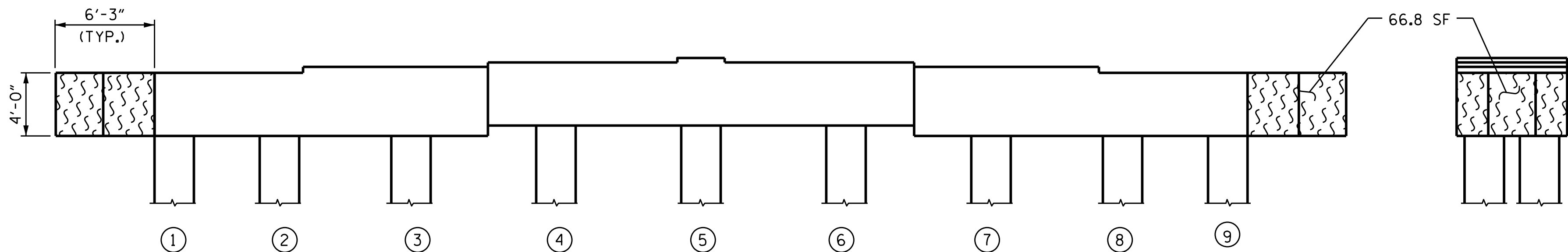
SPAN 37
SPAN 36

TOP VIEW OF CAP



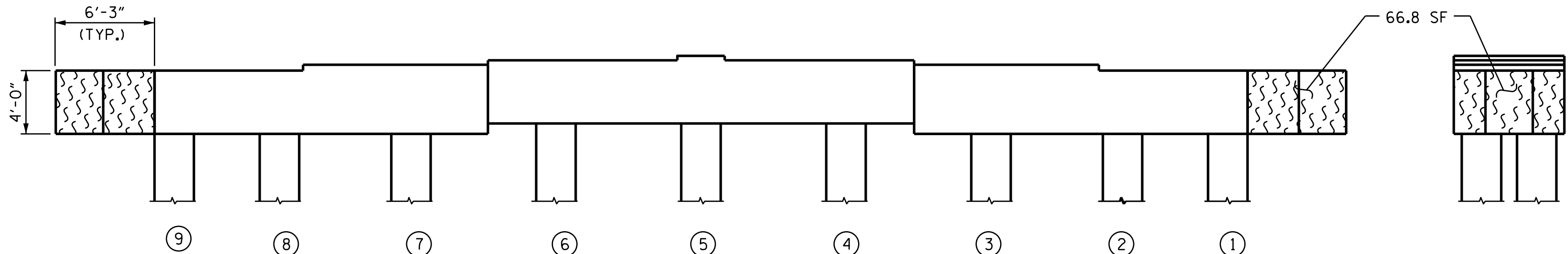
SPAN 36
SPAN 37

BOTTOM VIEW OF CAP



EAST END

ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 36	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

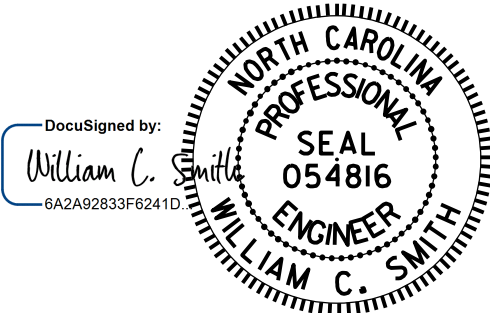
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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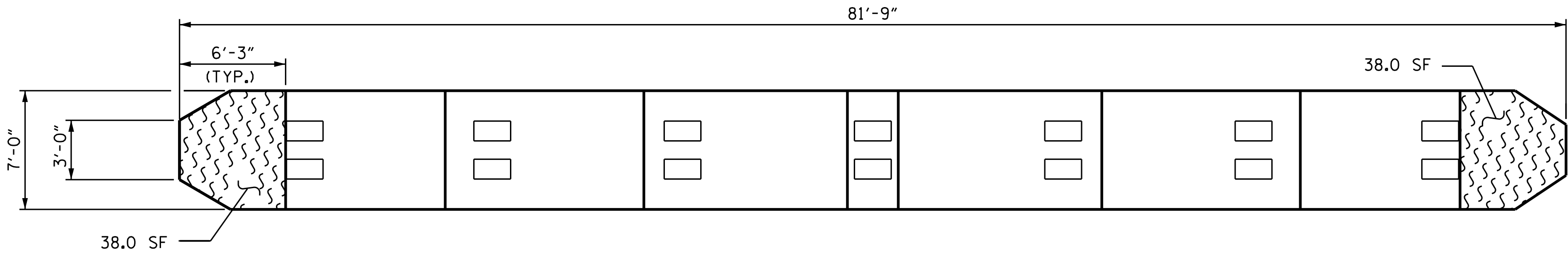
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CHECKED BY : W. C. SMITH DATE : 7/08/24

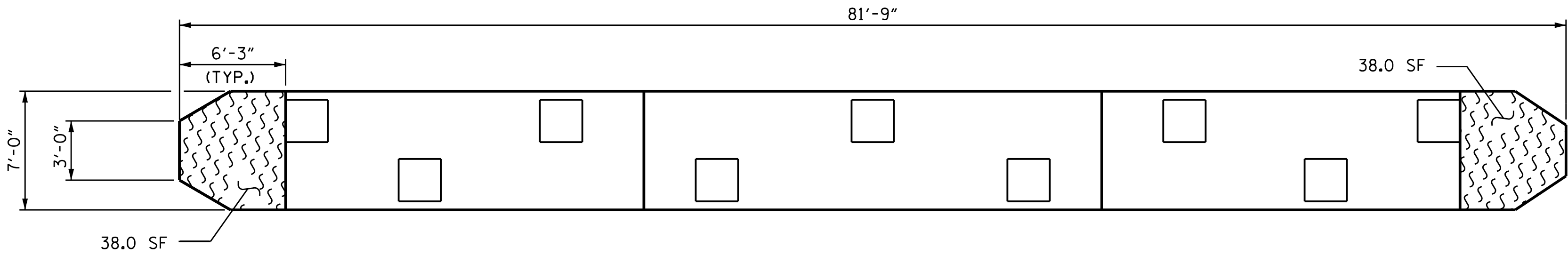
11/21/2025
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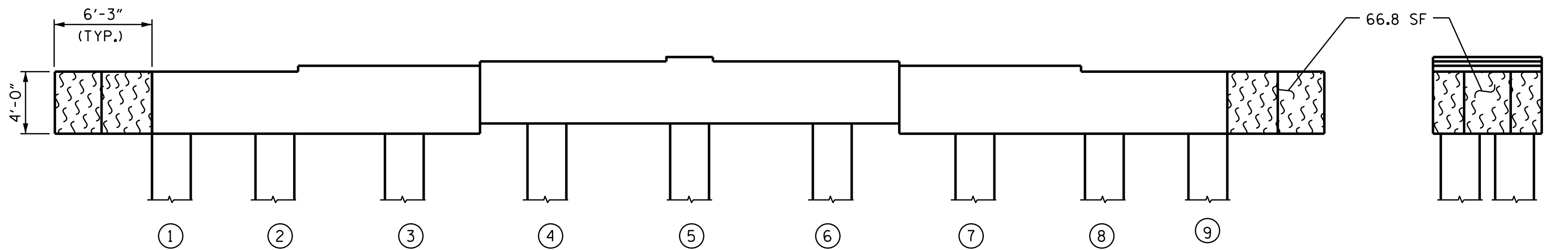
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NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-104
2			4			TOTAL SHEETS 217



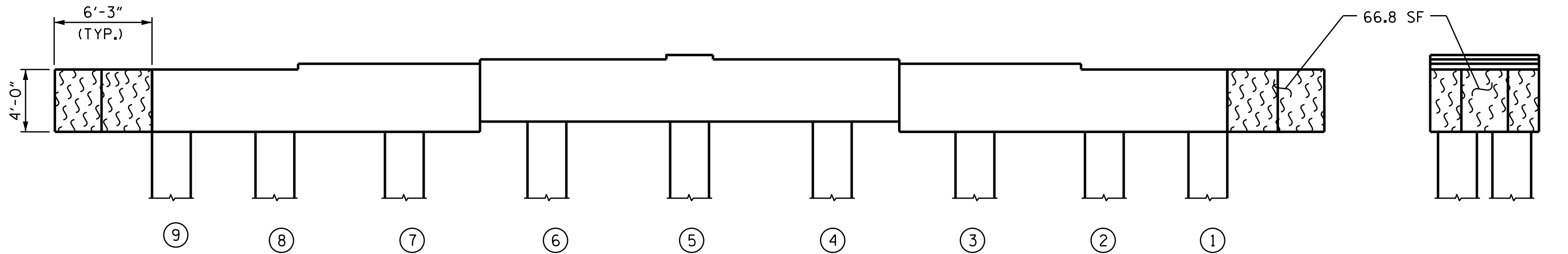
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 38
SPAN 37

SPAN 37
SPAN 38

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 37	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

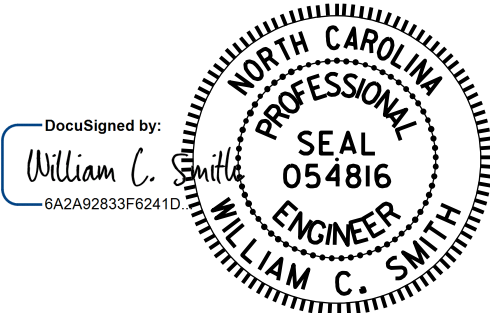
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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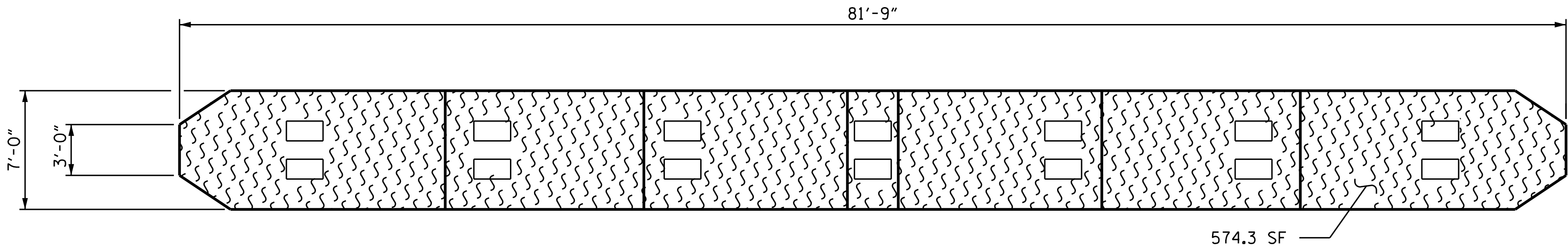
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CHECKED BY : W. C. SMITH DATE : 7/8/24

11/21/2025

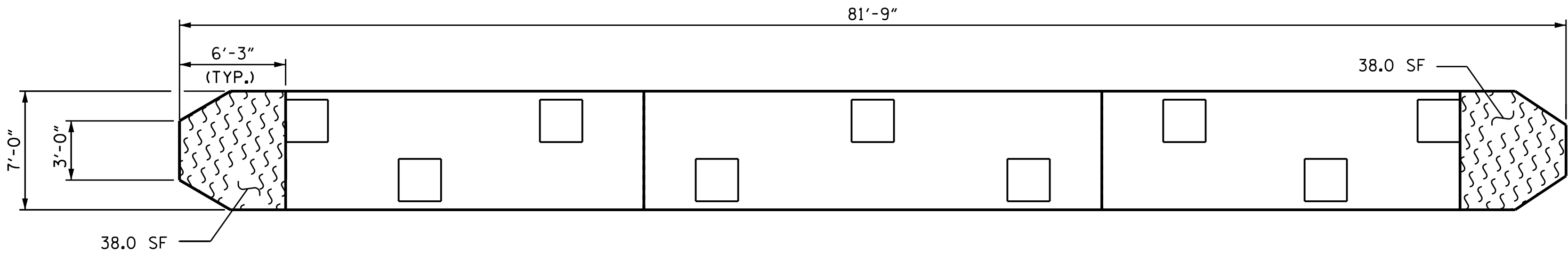
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-105
1			3			TOTAL SHEETS
2			4			217



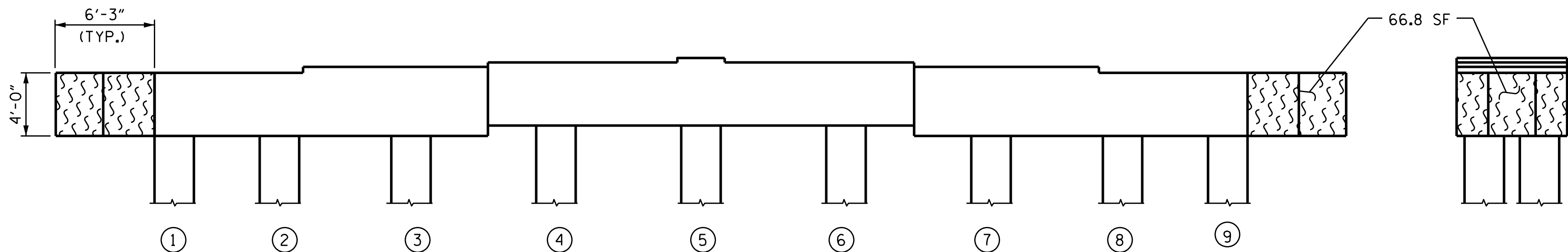
TOP VIEW OF CAP

SPAN 39
SPAN 38



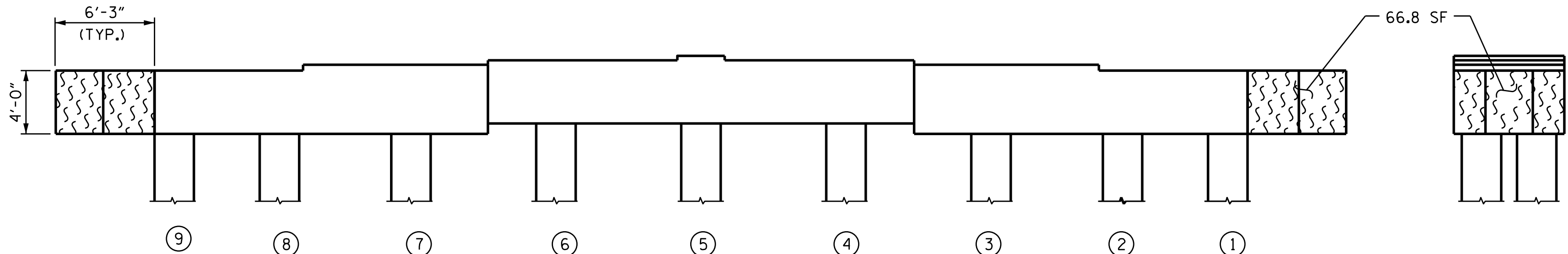
BOTTOM VIEW OF CAP

SPAN 38
SPAN 39



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 38	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

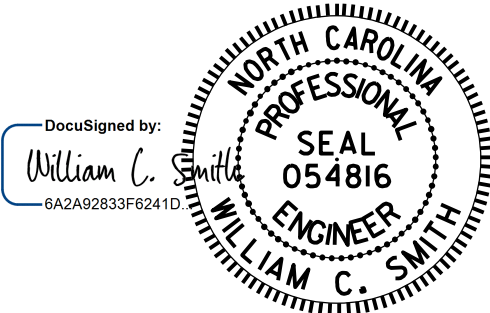
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

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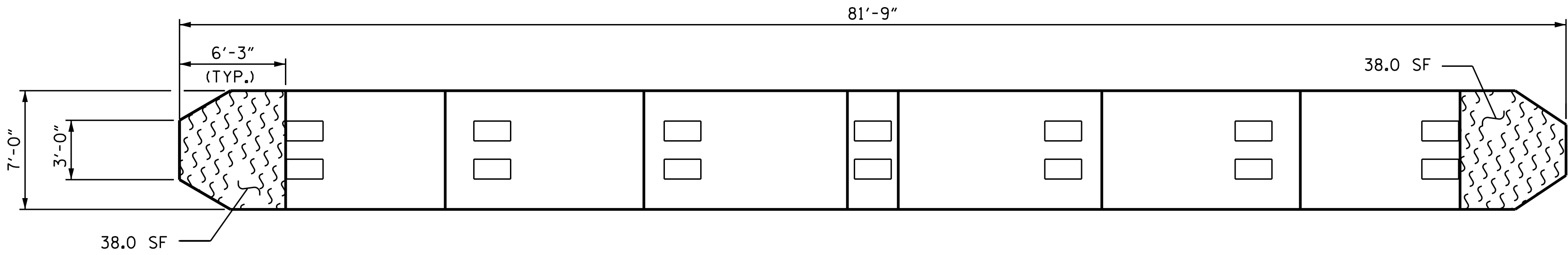


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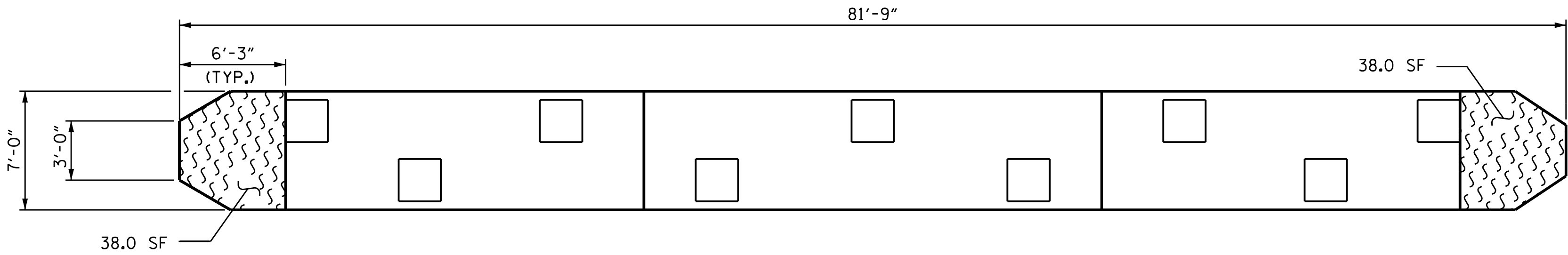
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CHECKED BY : W. C. SMITH DATE : 6/19/24

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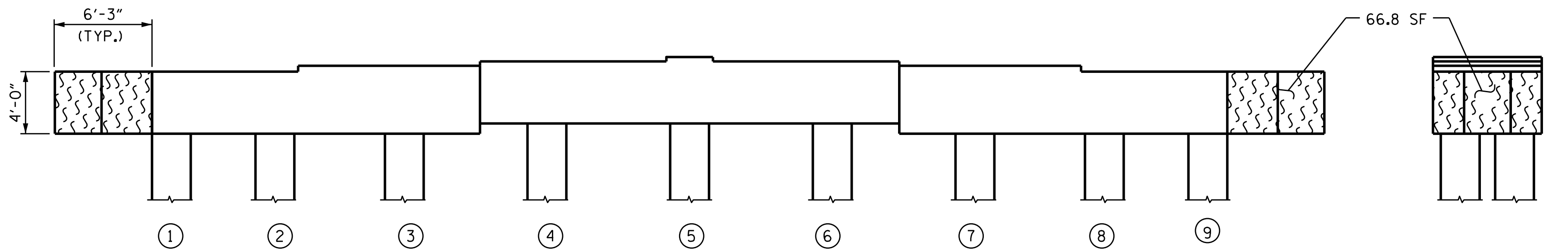
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2			4			TOTAL SHEETS 217



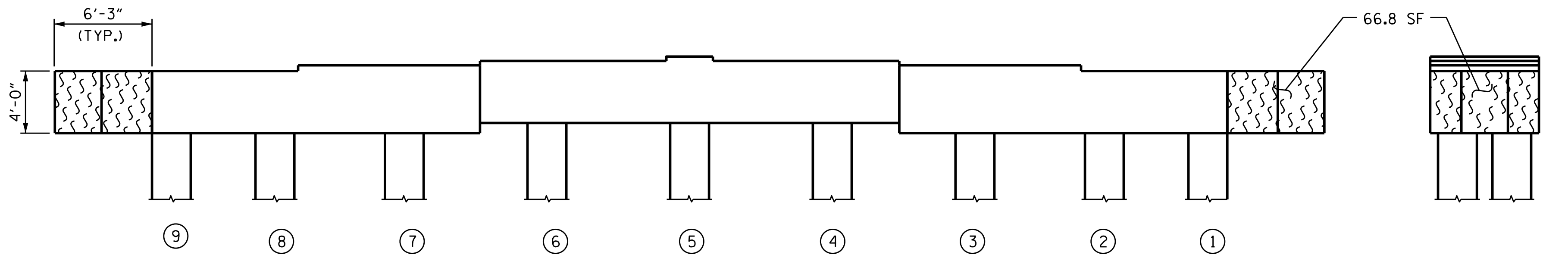
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 40
SPAN 39

SPAN 39
SPAN 40

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 39	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

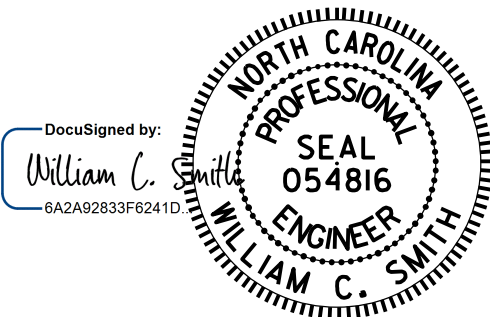
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
BRIDGE NO. 060353

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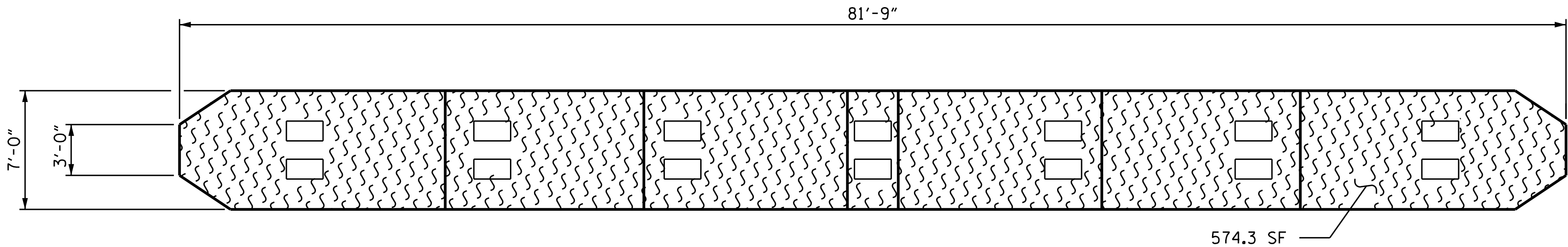
11/21/2025

DRAWN BY : S. T. SANDOR DATE : 6/18/24
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11/21/2025

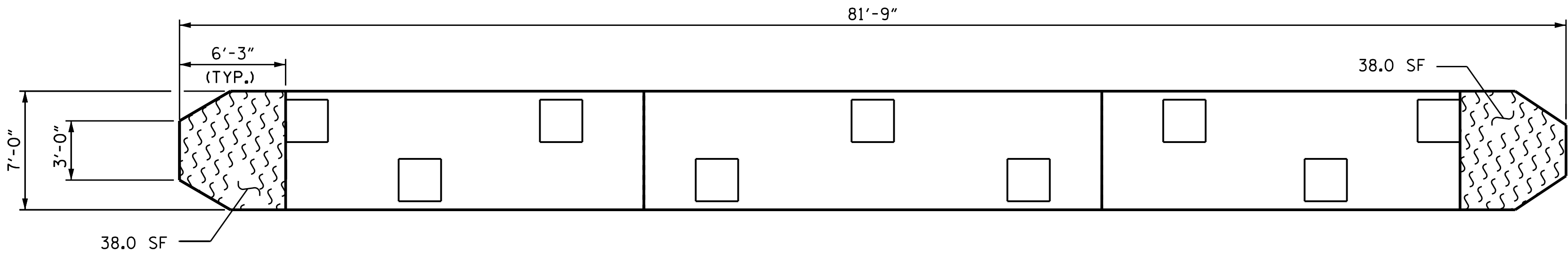
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FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-107
1			3			TOTAL SHEETS
2			4			217



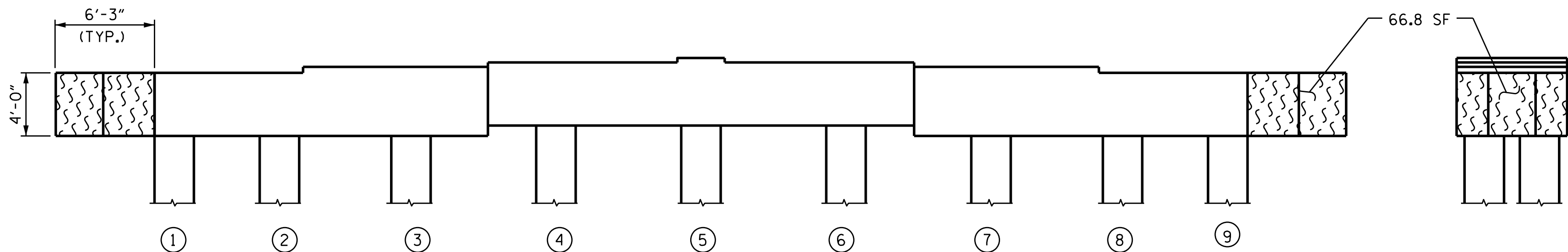
TOP VIEW OF CAP

SPAN 41
SPAN 40



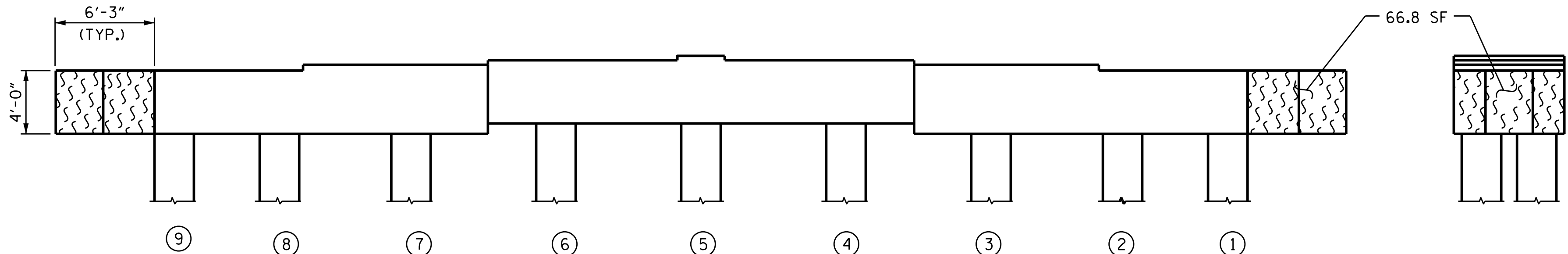
BOTTOM VIEW OF CAP

SPAN 40
SPAN 41



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

REPAIR QUANTITY TABLE

BENT 40	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

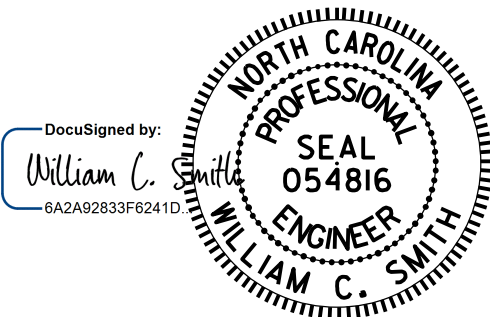
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 40 OF 140

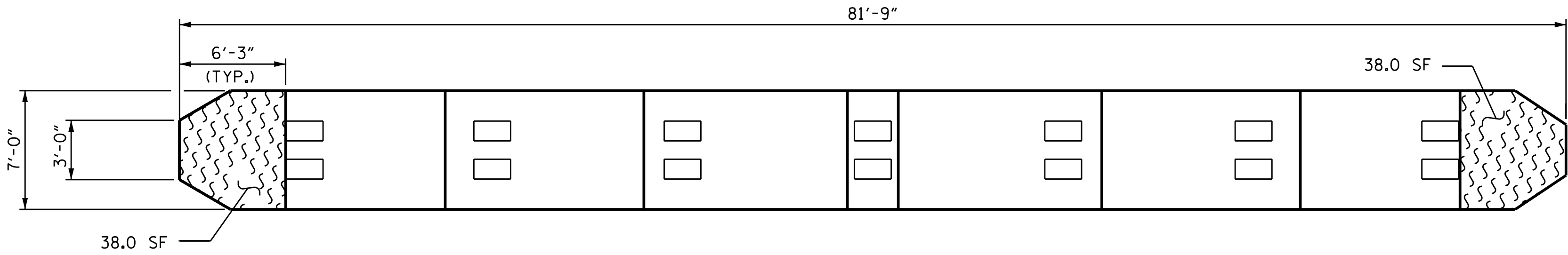


11/21/2025

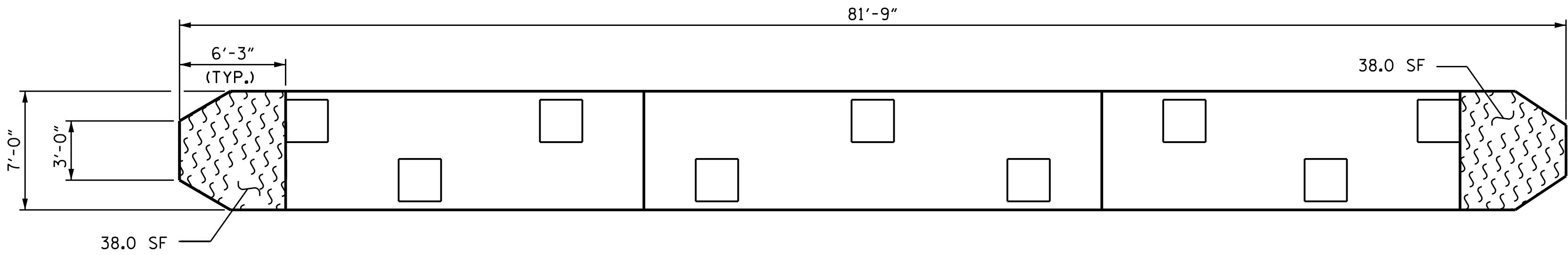
DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 6/19/24

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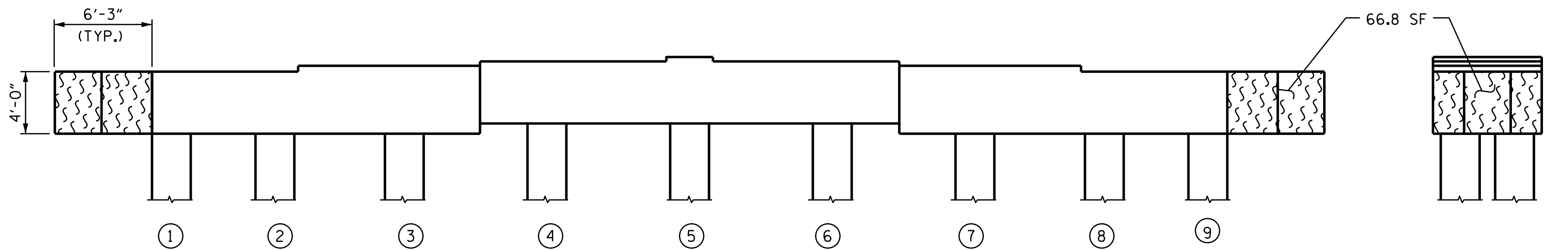
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-108
1			3			TOTAL SHEETS
2			4			217



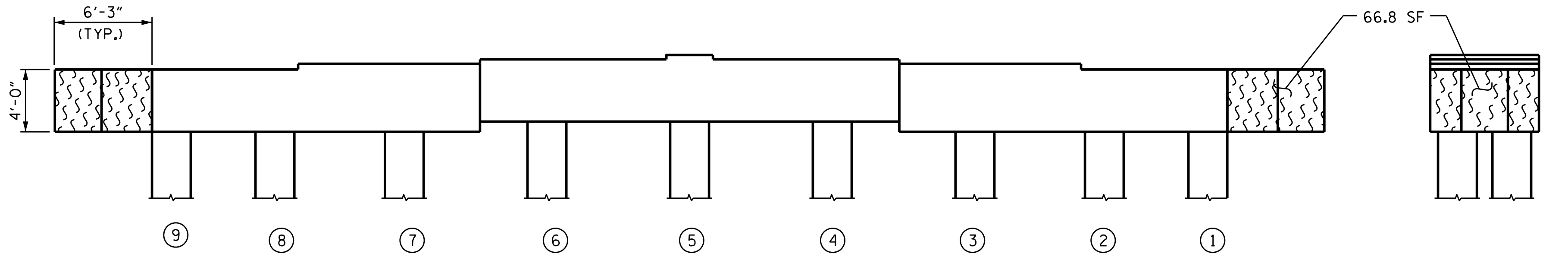
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 42
SPAN 41

SPAN 41
SPAN 42

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 41	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

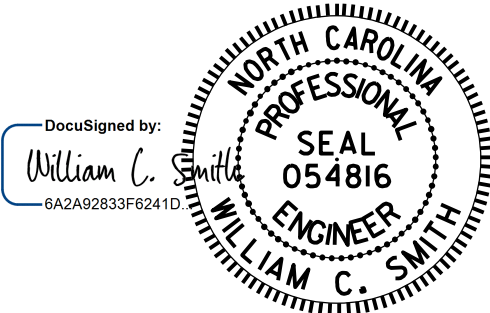
NOTES:

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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 41 OF 140



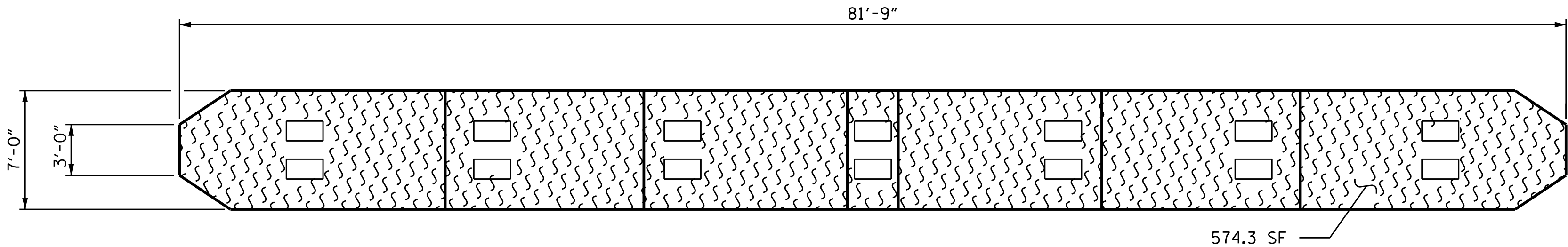
11/21/2025

DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 7/09/24

11/21/2025

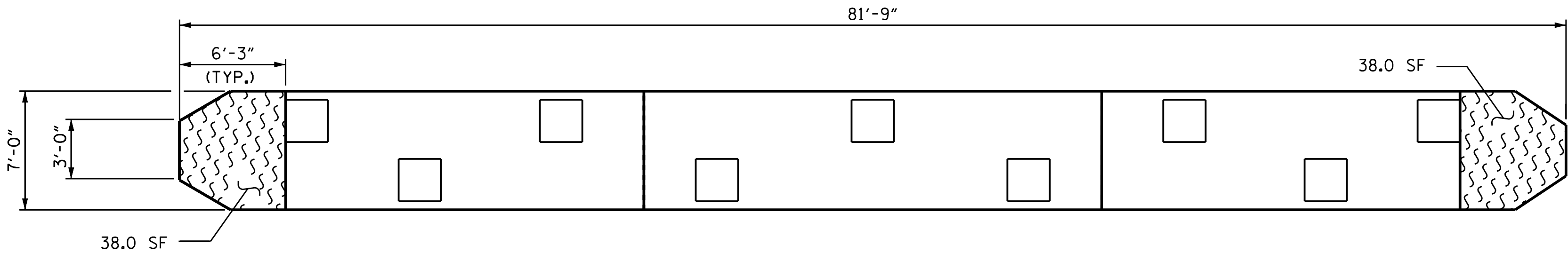
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-109
1			3			TOTAL SHEETS
2			4			217



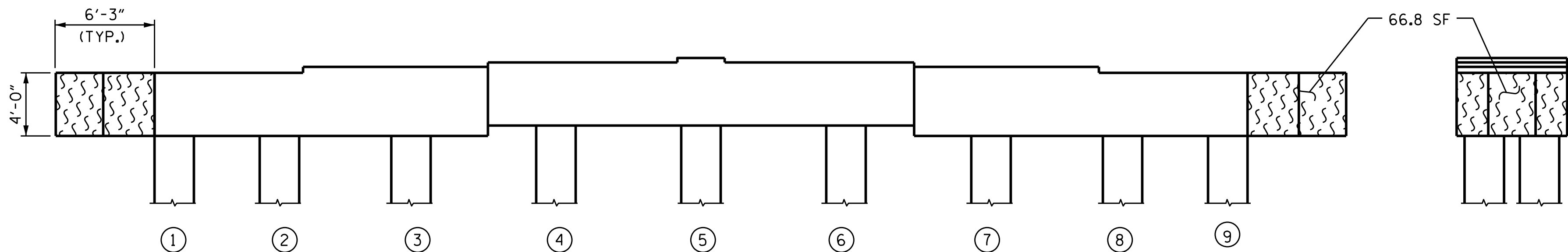
SPAN 43
SPAN 42

TOP VIEW OF CAP



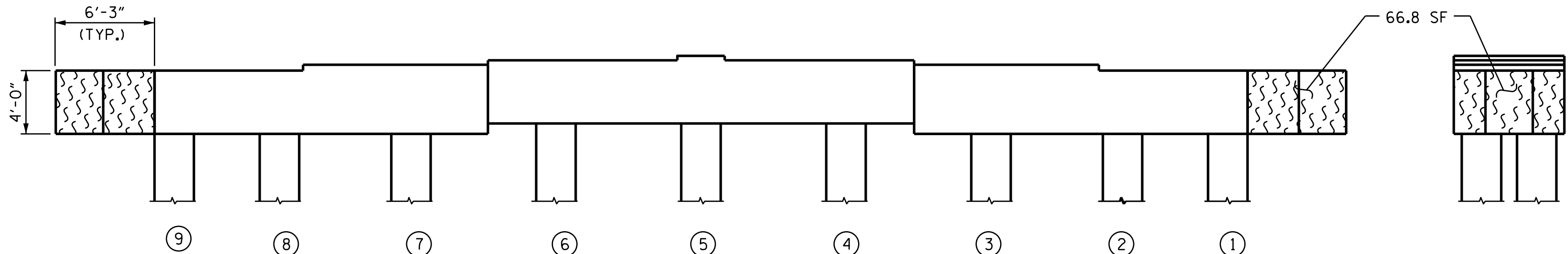
SPAN 42
SPAN 43

BOTTOM VIEW OF CAP



EAST END

ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 42	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		784.0		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

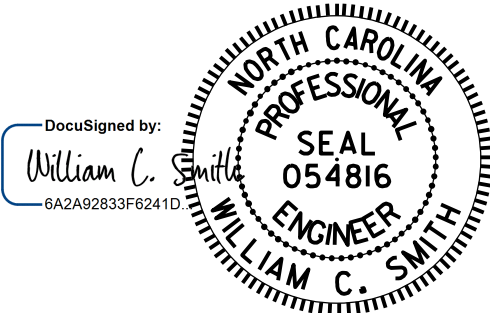
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- SHOTCRETE REPAIR
- CONCRETE REPAIR
- EPOXY RESIN INJECTION
- PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 42 OF 140

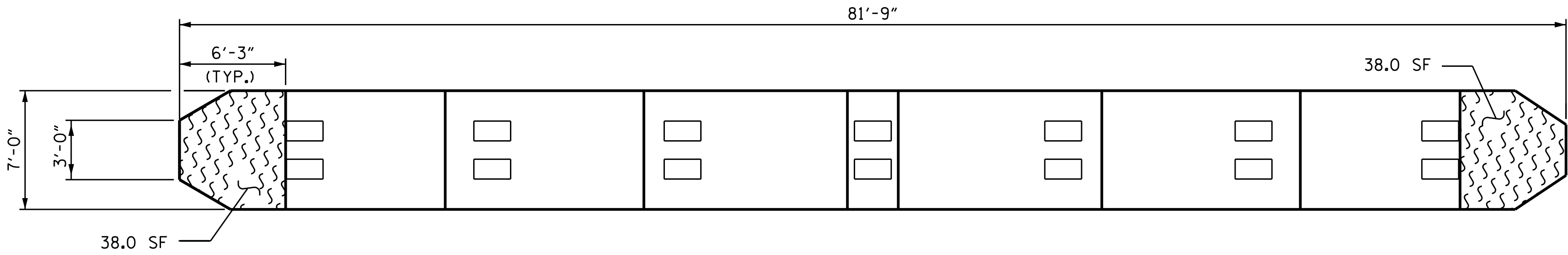


11/21/2025

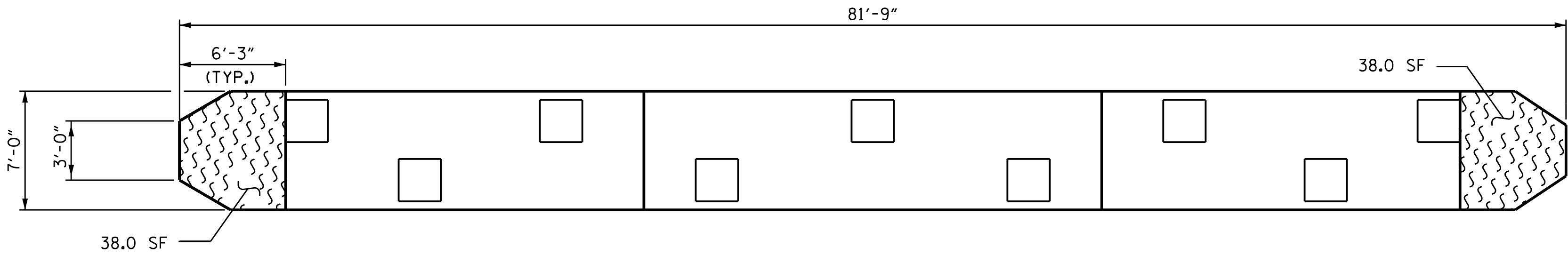
DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 7/09/24

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FINAL UNLESS ALL
SIGNATURES COMPLETED

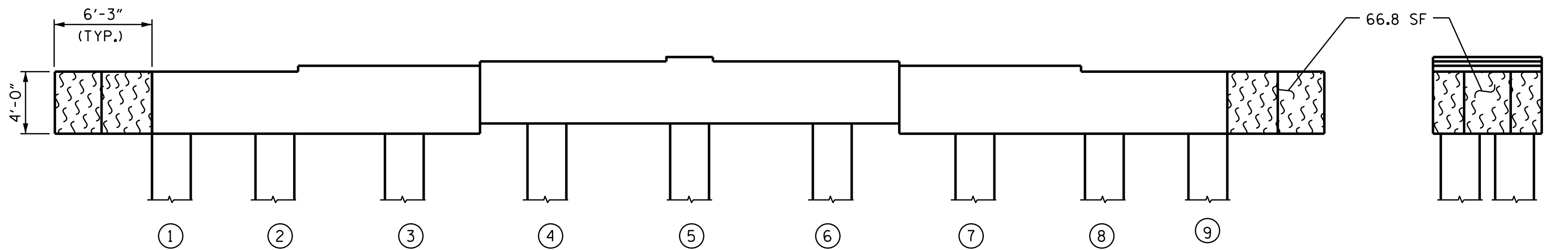
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-110
1			3			TOTAL SHEETS
2			4			217



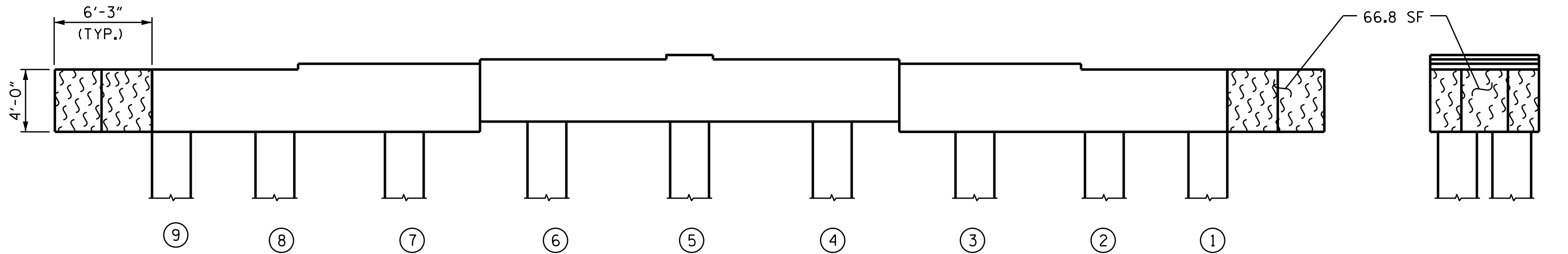
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

SPAN 44
SPAN 43

SPAN 43
SPAN 44

EAST END

WEST END

REPAIR QUANTITY TABLE

BENT 43	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
COLUMN		0.0		
EPOXY COATING AND DEBRIS REMOVAL		AREA SF		
CAP		285.6		

VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

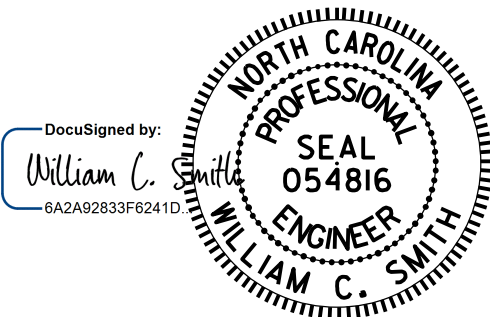
NOTES:

FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 43 OF 140



11/21/2025

DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 7/09/24

11/21/2025

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-111
2			4			TOTAL SHEETS 217