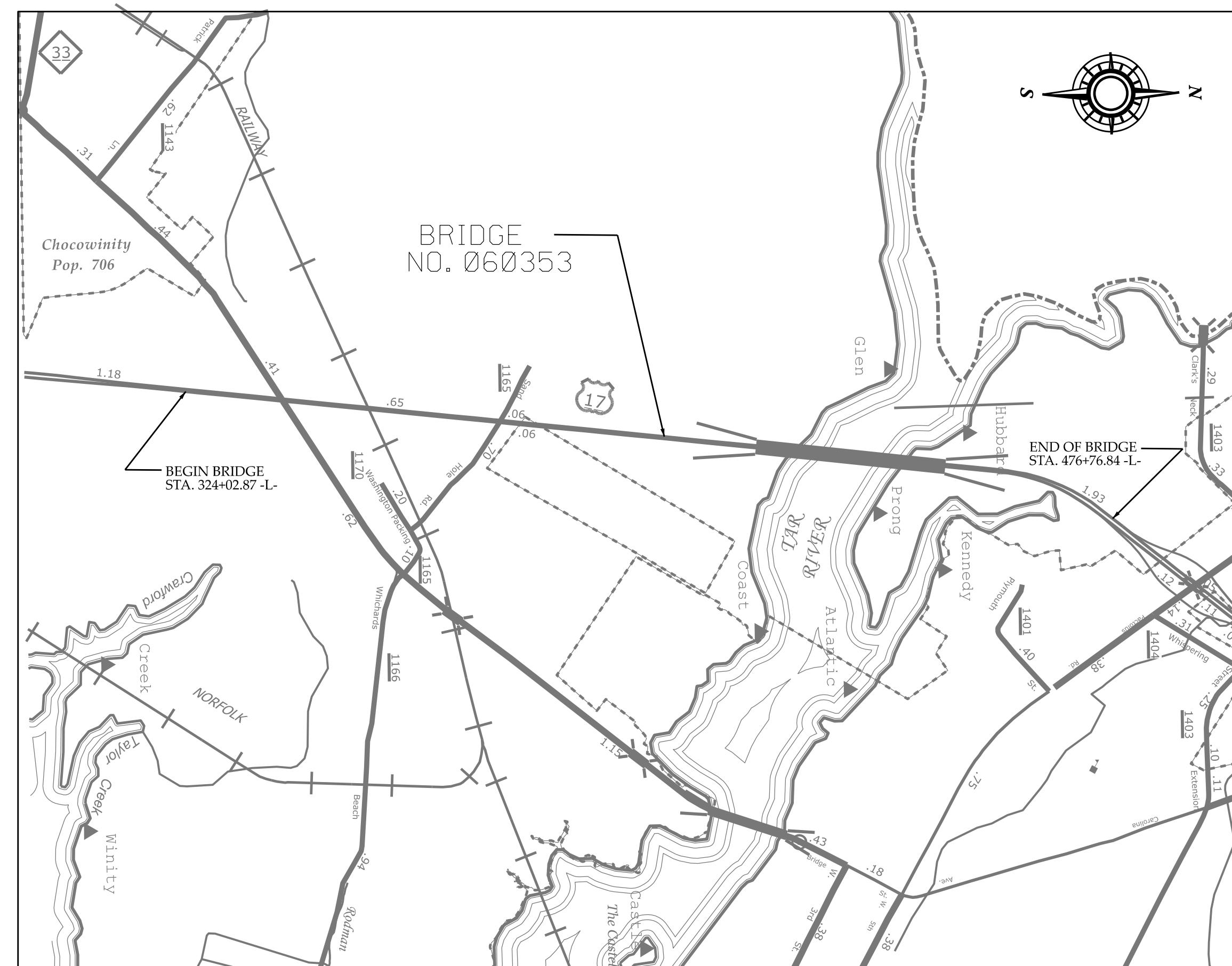


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

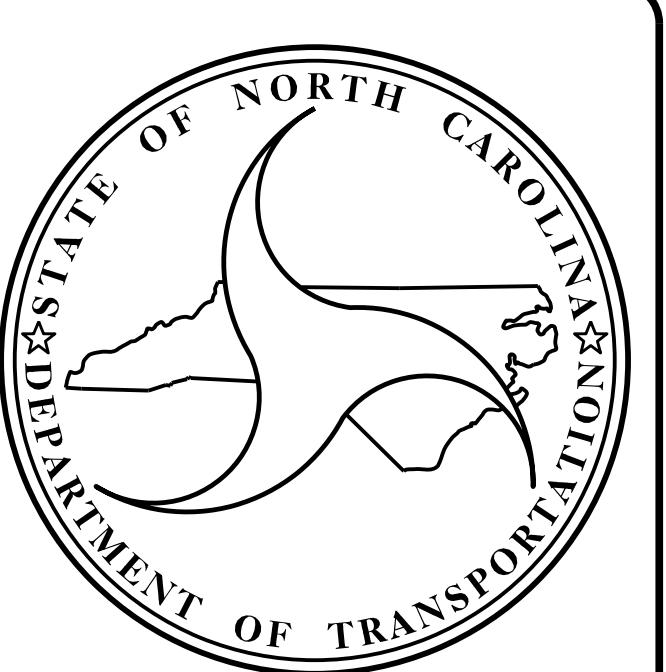
BEAUFORT COUNTY

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:

DEPARTMENT OF HIGHWAYS

STRUCTURES MANAGEMENT UNIT

1000 BIRCH RIDGE DR.

RALEIGH, N.C. 27610

2024 STANDARD SPECIFICATIONS

STANDARD SPECIFICATIONS

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.

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 PRESTRESSED CONCRETE GIRDERS	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

DRAWN BY : P. K. NEWTON DATE : 9/9/24
CHECKED BY : W. C. SMITH DATE : 10/3/24
DESIGN ENGINEER OF RECORD : W. C. SMITH DATE : 10/3/24

11/25/2025
R:\Structures\15BPR.137\Plans\401_001.15BPR.137.SMU.BOM.S-1.060353.dgn
wsmith

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

DocuSigned by:
William C. Smith
0A2A9B2833F92410...



11/25/2025

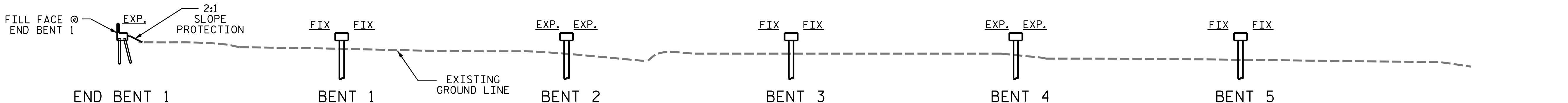
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

LOCATION SKETCH AND
TOTAL BILL OF MATERIAL

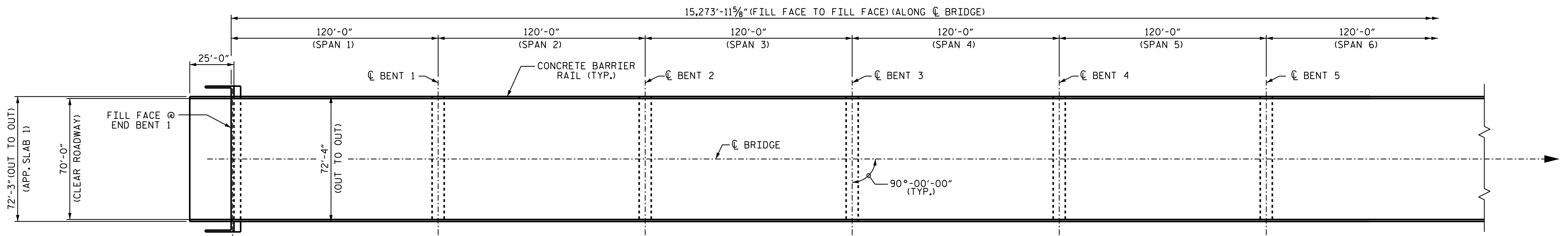
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FINAL UNLESS ALL
SIGNATURES COMPLETED
TOTAL SHEETS
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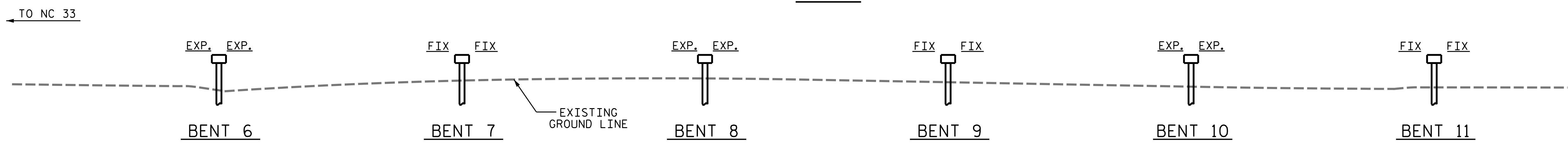
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S-1



SECTION ALONG C ROADWAY

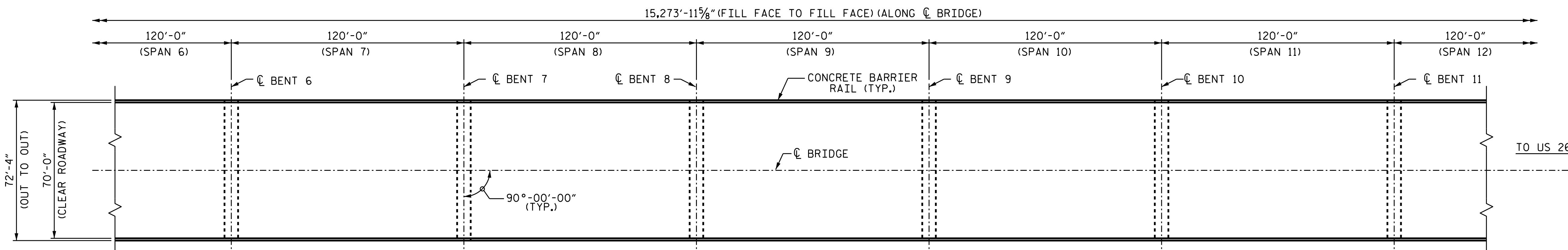


PLAN



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

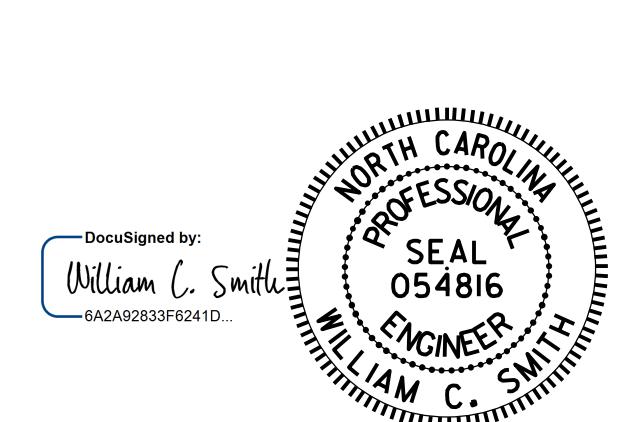
SECTION ALONG C ROADWAY



PLAN

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

SHEET 1 OF 13

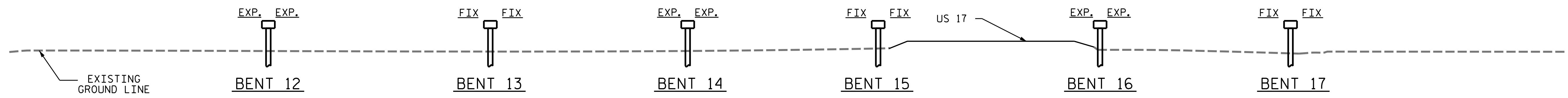


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

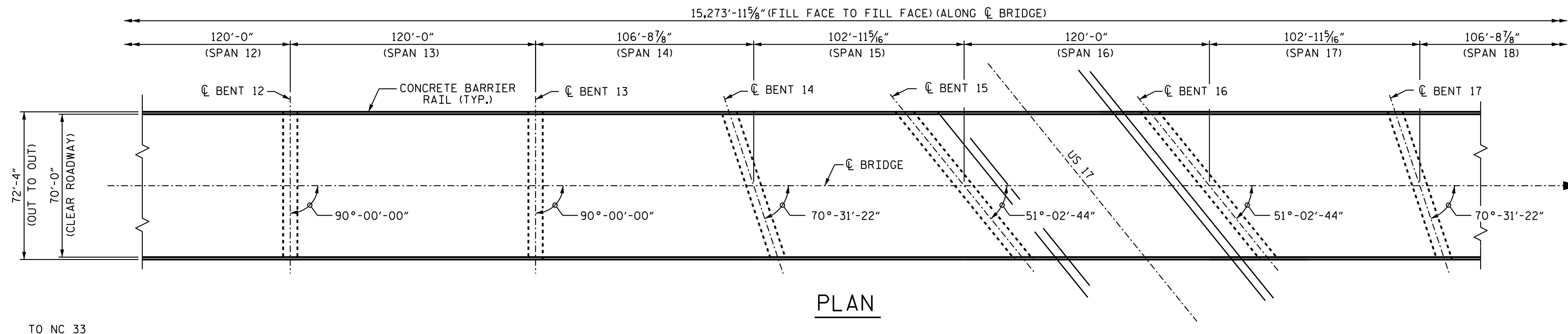
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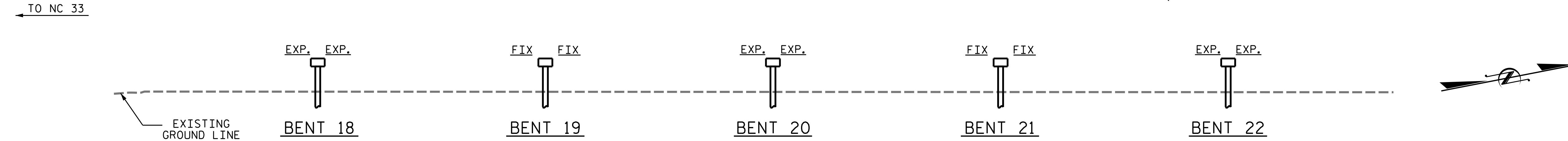
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CHECKED BY : W. C. SMITH DATE : 10/03/24



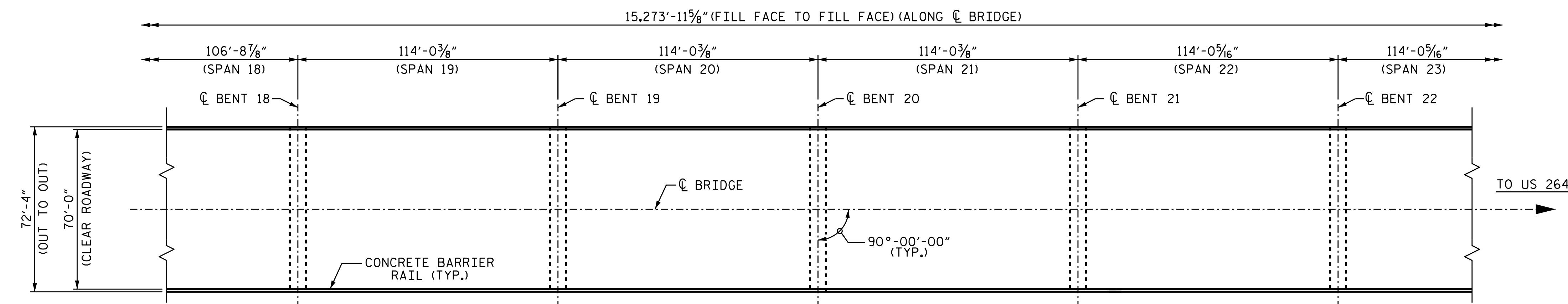
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PLAN



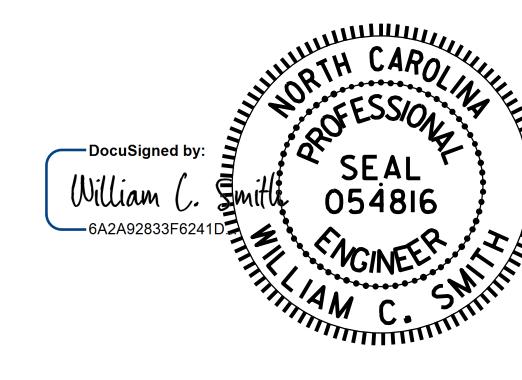
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PLAN

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

SHEET 2 OF 13



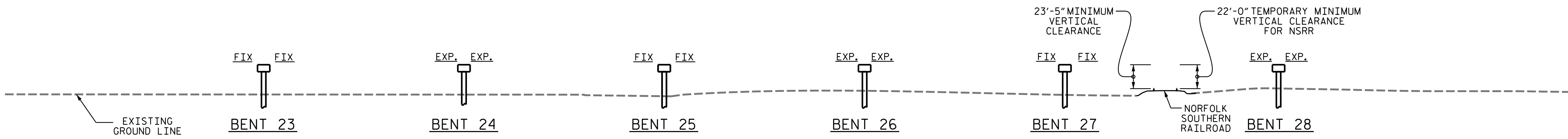
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DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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

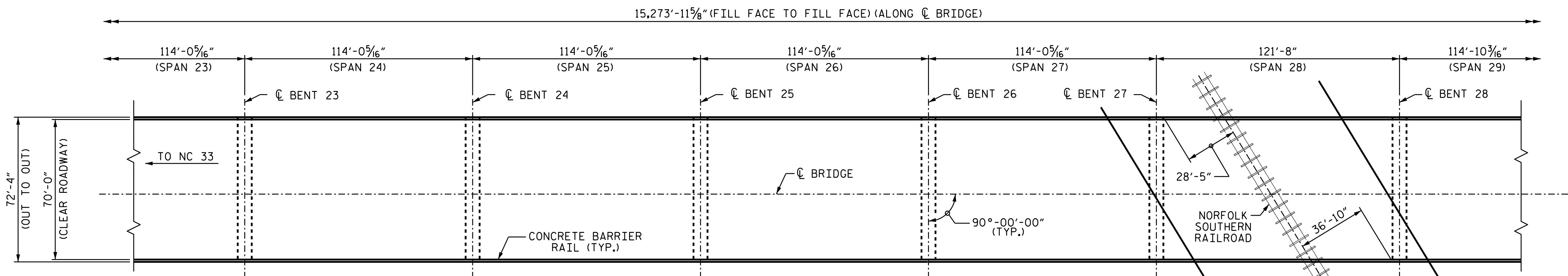
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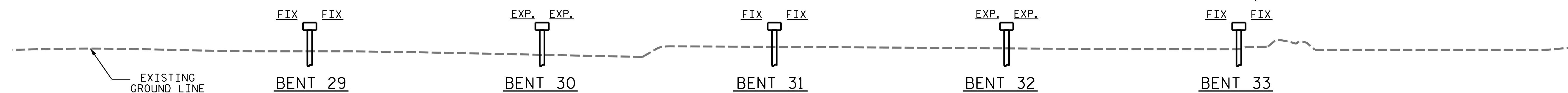
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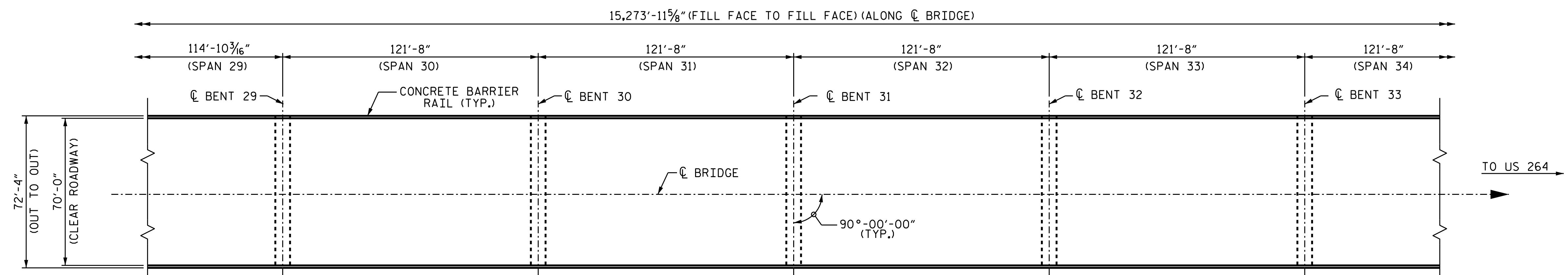
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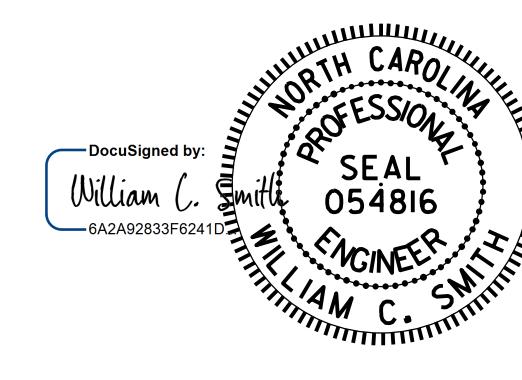
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PLAN

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

SHEET 3 OF 13



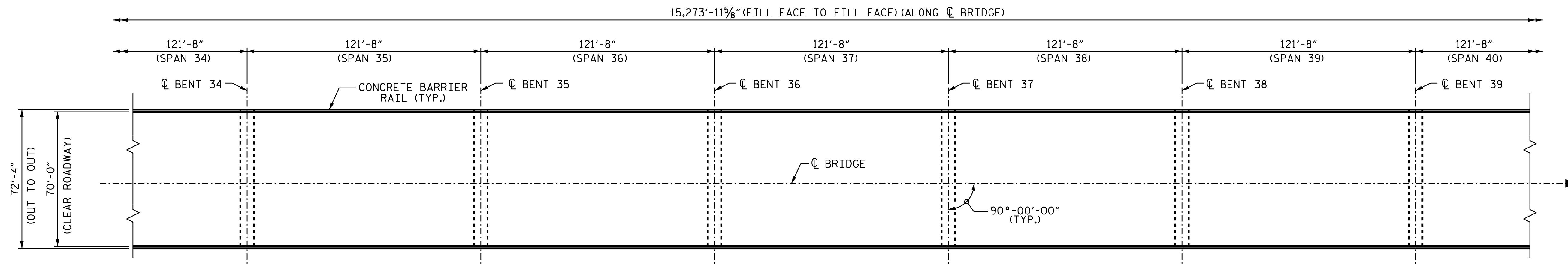
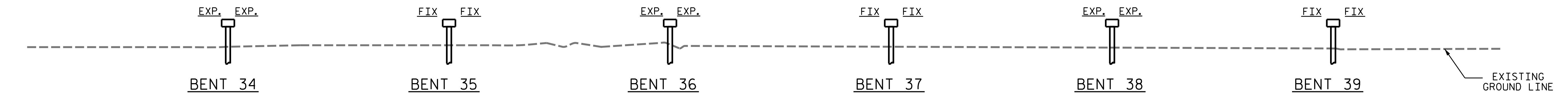
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DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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

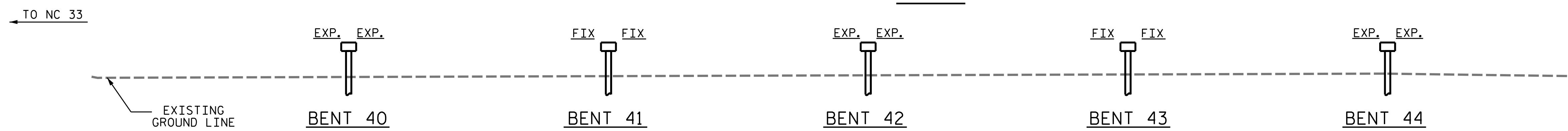
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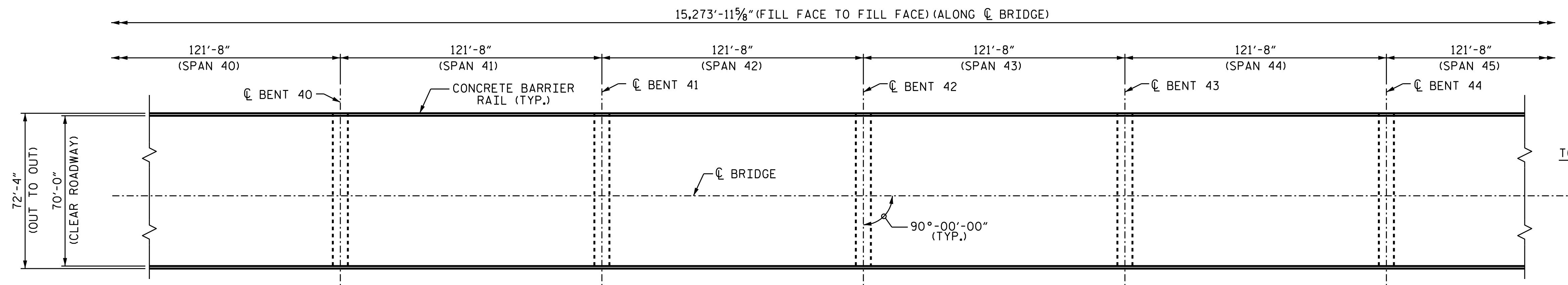
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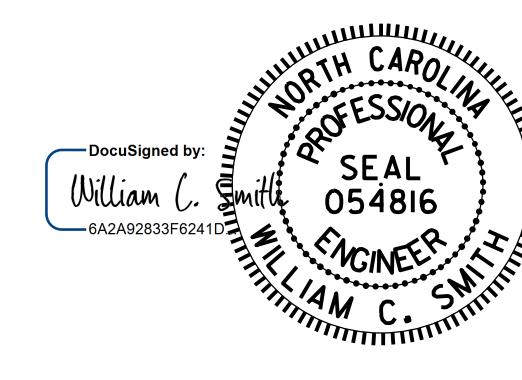
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PLAN

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

SHEET 4 OF 13



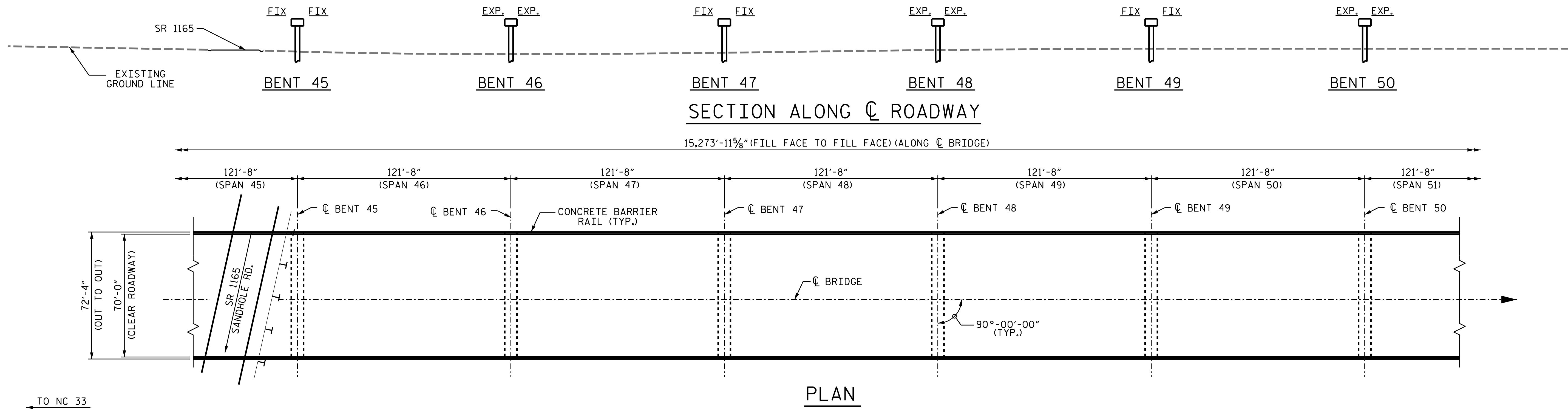
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DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
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OVER TAR RIVER
BETWEEN NC 33 AND US 264

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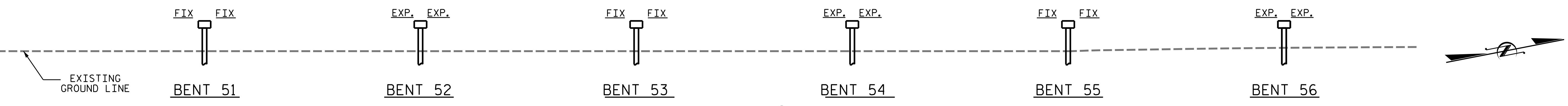
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CHECKED BY : W. C. SMITH DATE : 10/04/24



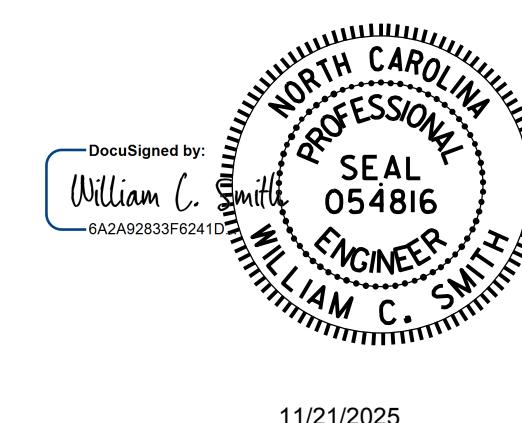
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PLAN

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

SHEET 5 OF 13



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

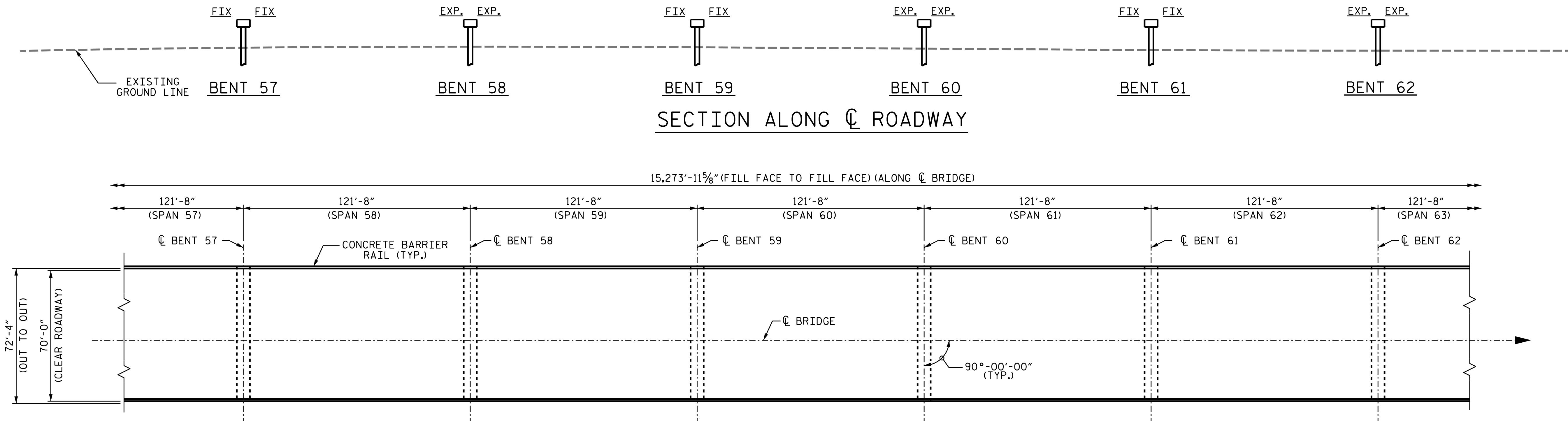
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FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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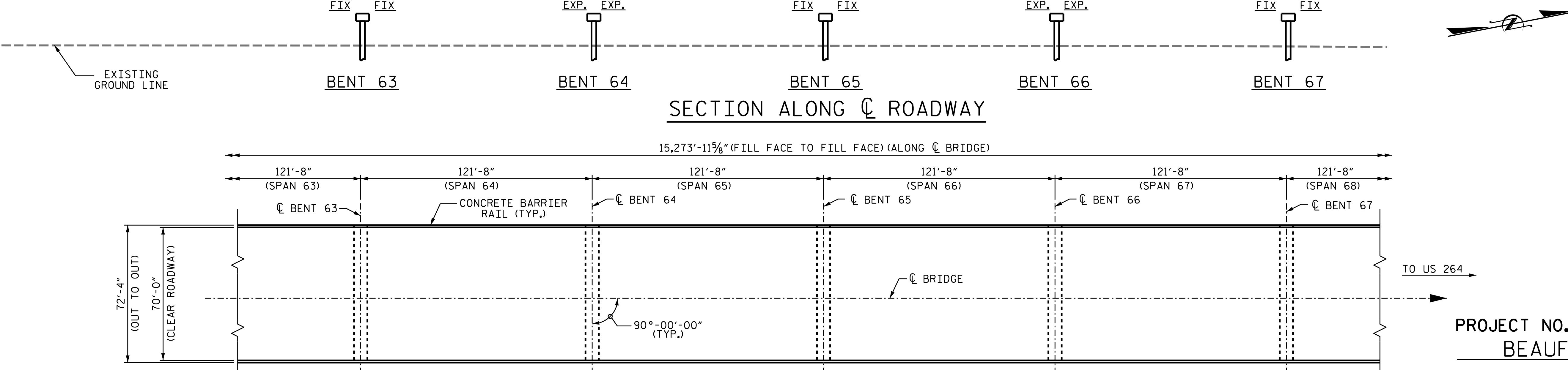
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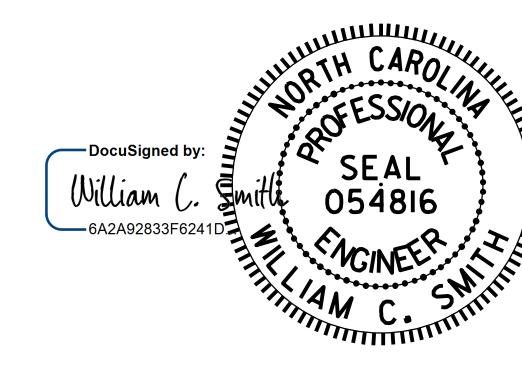


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PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 6 OF 13



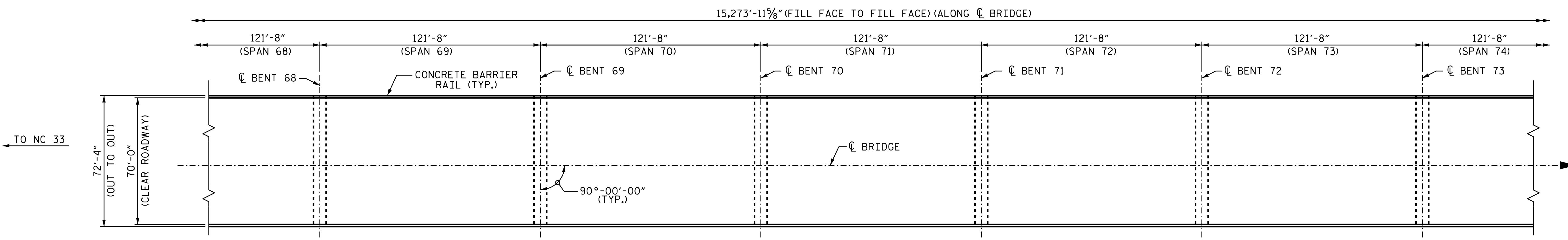
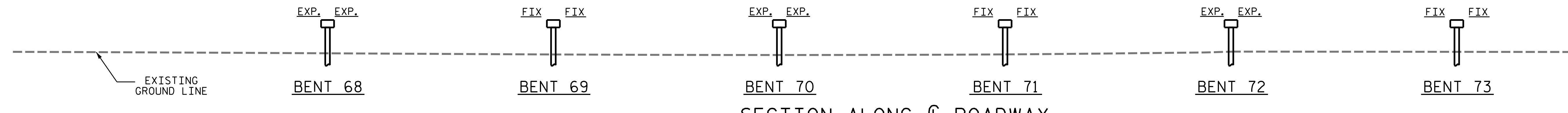
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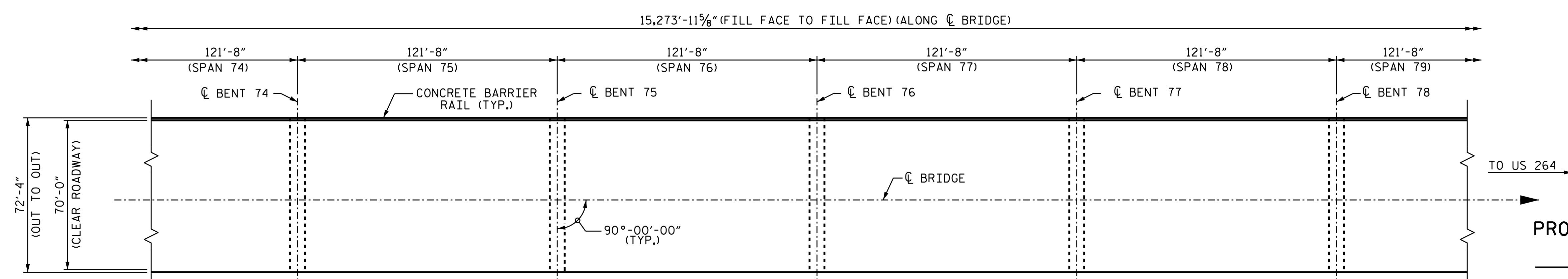
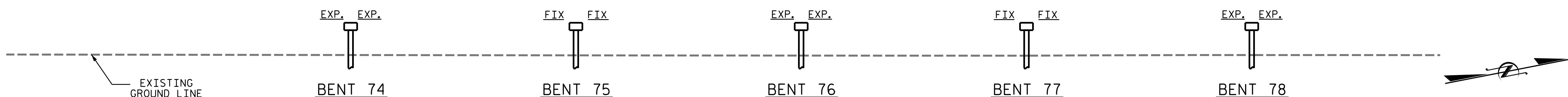
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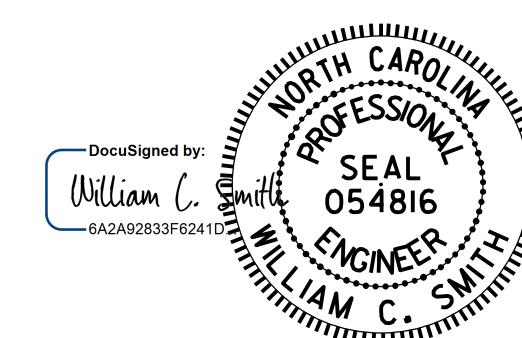
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PLAN

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

SHEET 7 OF 13



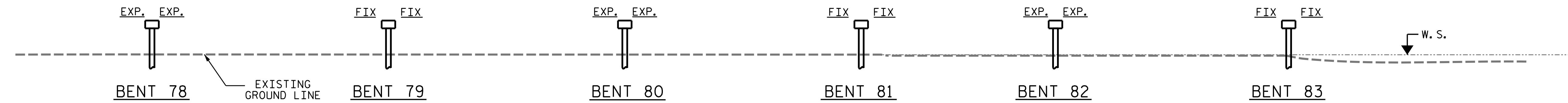
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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

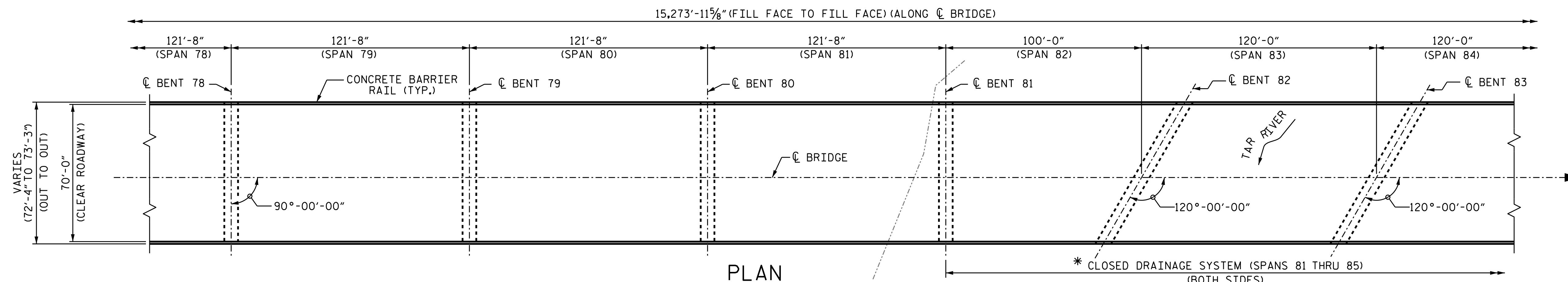
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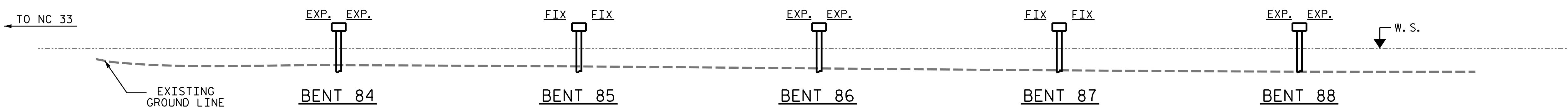
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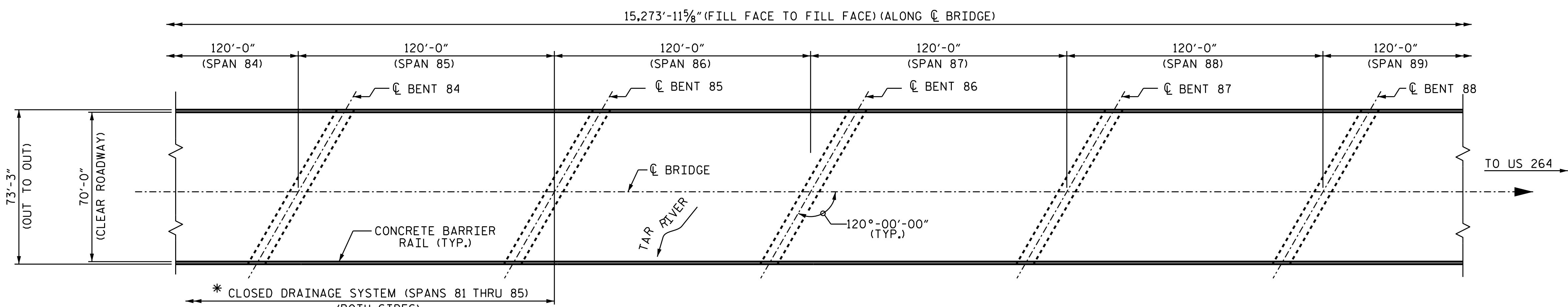
SECTION ALONG Q ROADWAY



PLAN



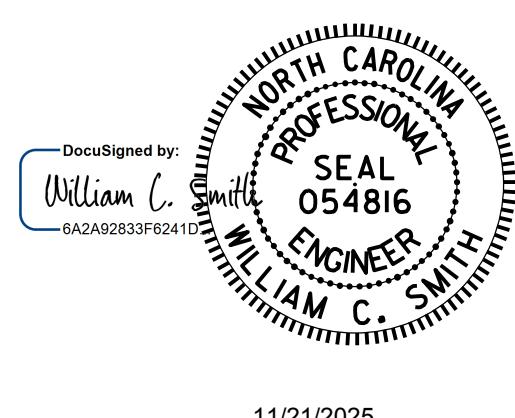
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PLAN

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

SHEET 8 OF 13



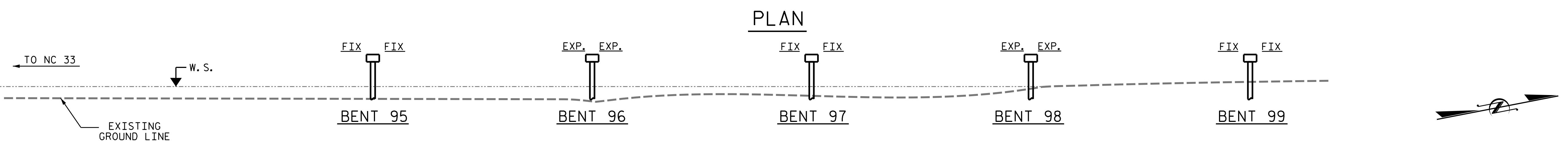
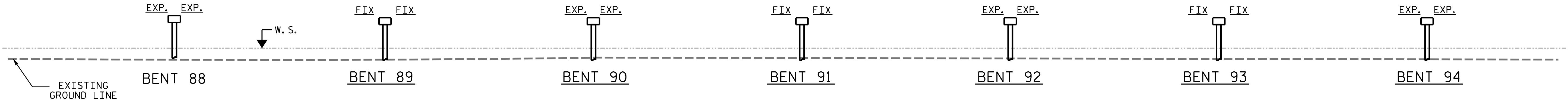
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

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TOTAL SHEETS 217



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

DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

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

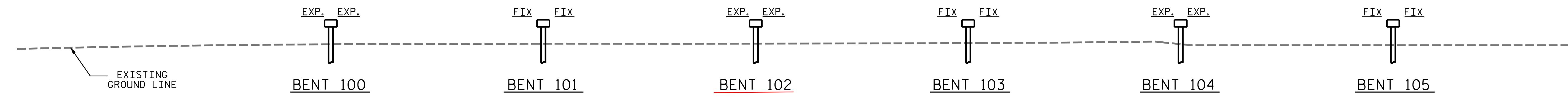
SHEET 9 OF 13



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

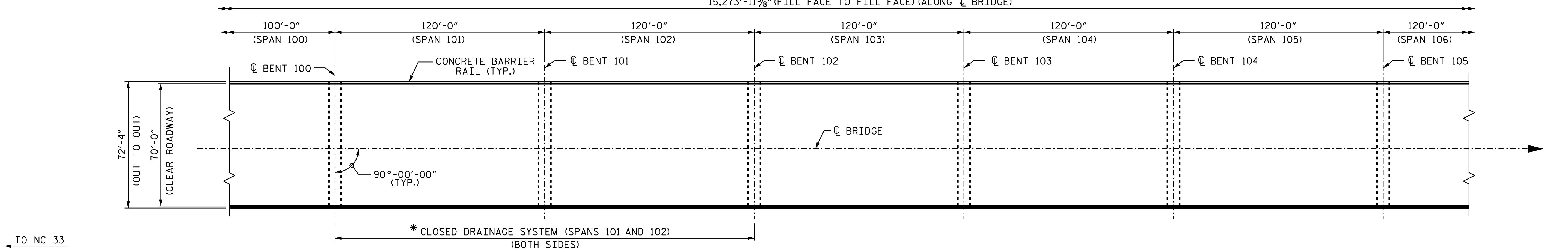
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1			3			
2			4			

TOTAL SHEETS 217

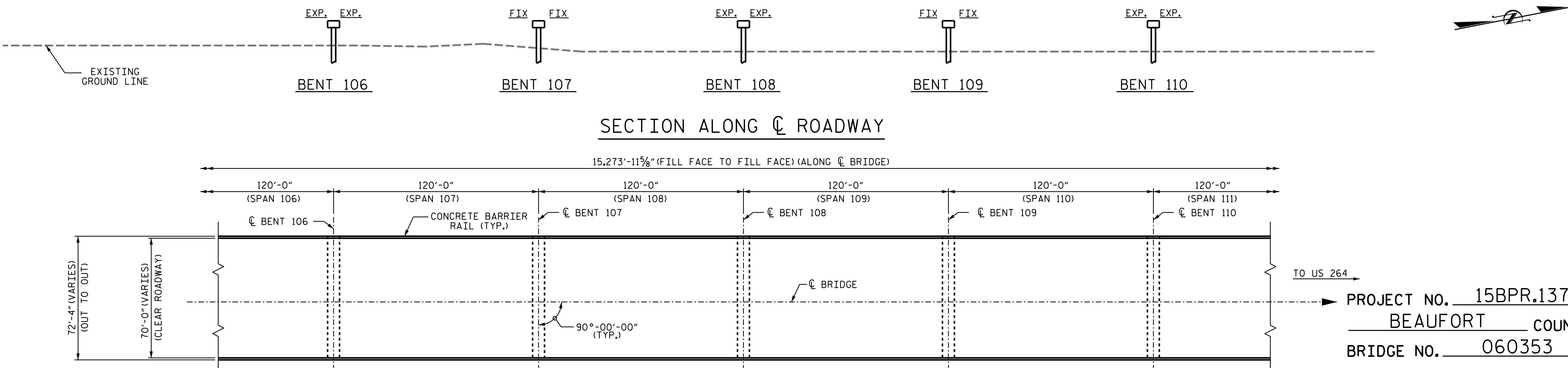


SECTION ALONG C ROADWAY

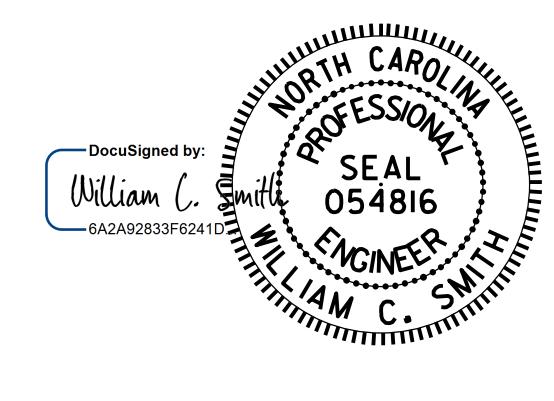
15,273'-11 1/8" (FILL FACE TO FILL FACE) (ALONG C BRIDGE)



PLAN



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

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

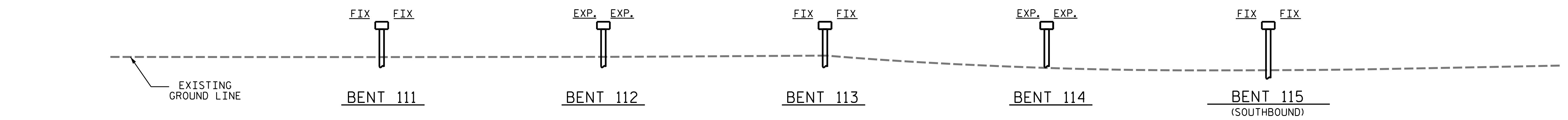
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FINAL UNLESS ALL
SIGNATURES COMPLETED

SHEET NO.
S-11
TOTAL SHEETS
217

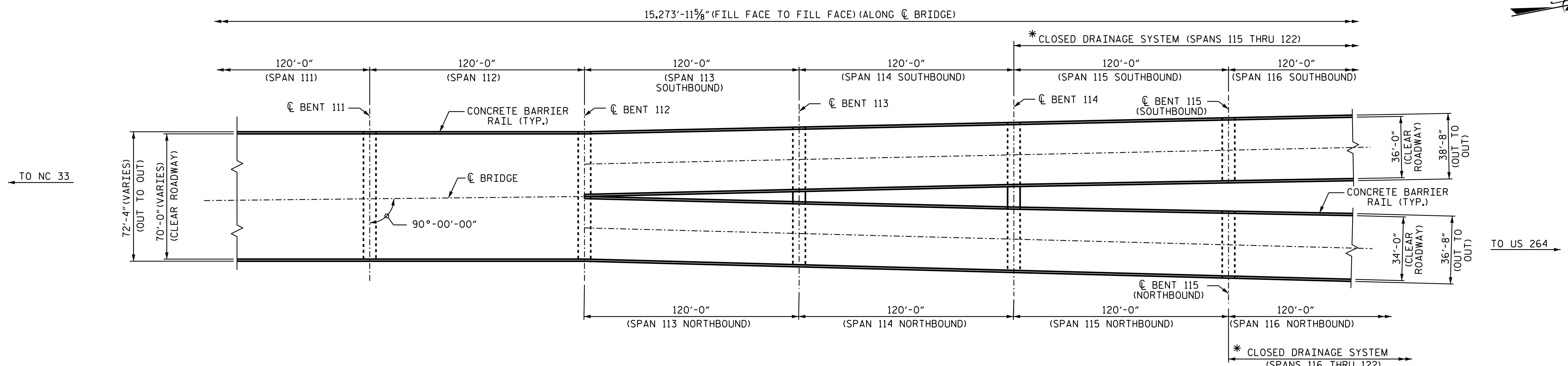
NOTE:

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

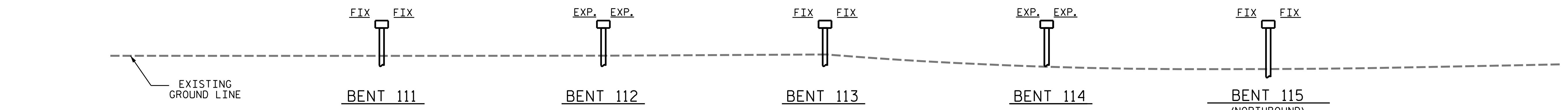
DRAWN BY : S. T. SANDOR DATE : 02/21/24
CHECKED BY : W. C. SMITH DATE : 10/04/24



SECTION ALONG C ROADWAY



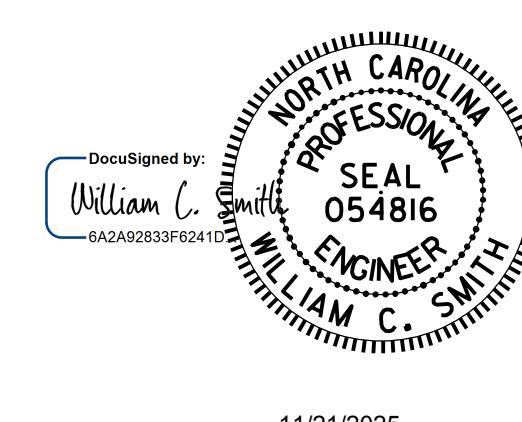
PLAN



SECTION ALONG C ROADWAY

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

SHEET 11 OF 13

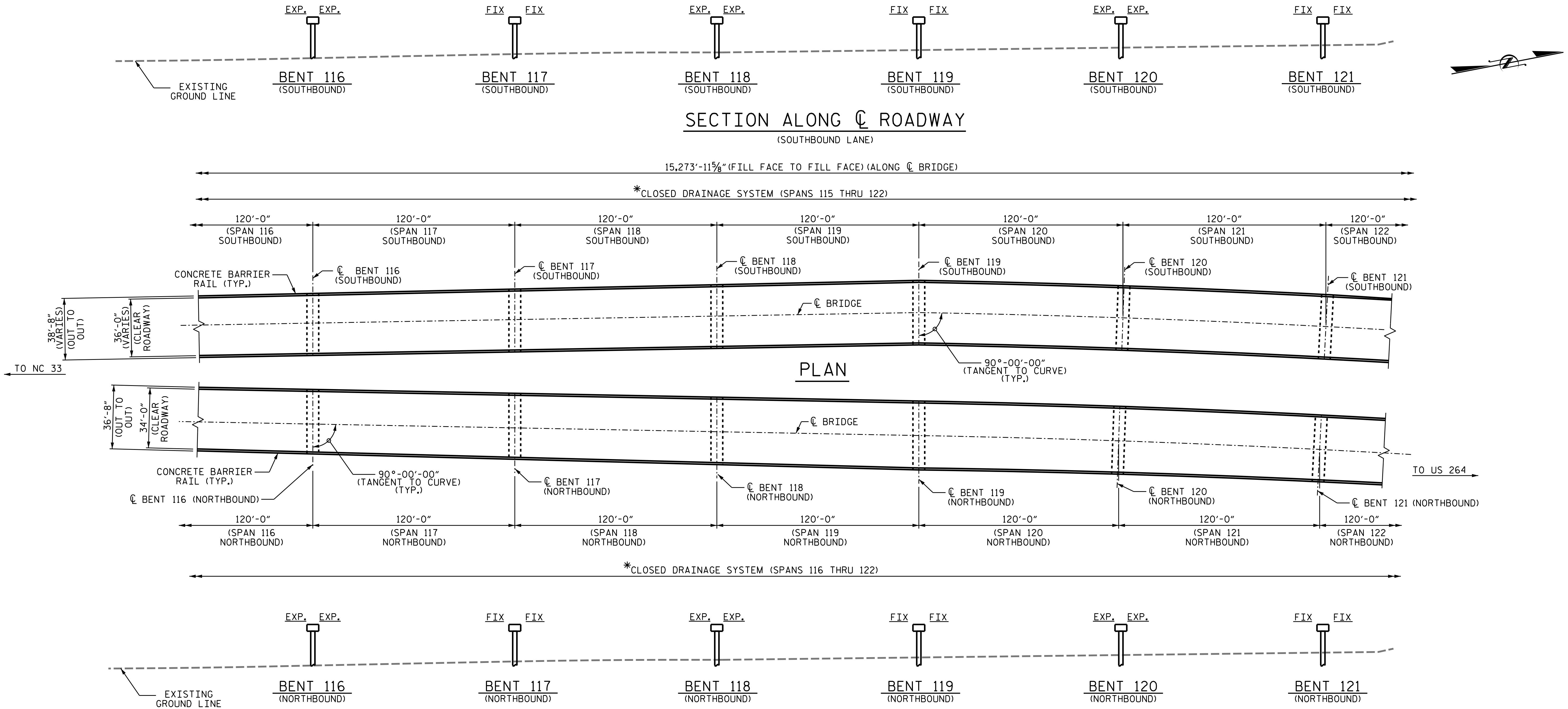


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



SECTION ALONG C ROADWAY
(NORTHBOUND LANE)

NOTE:

* SEE SHEET NO. S5-213 & S5-214 FOR
CLOSED DRAINAGE SYSTEM DETAILS.

DRAWN BY : S. T. SANDOR DATE : 02/21/24
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-13
1			3			
2			4			

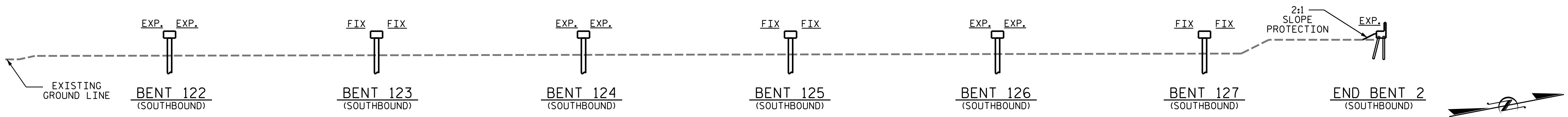
TOTAL SHEETS 217

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

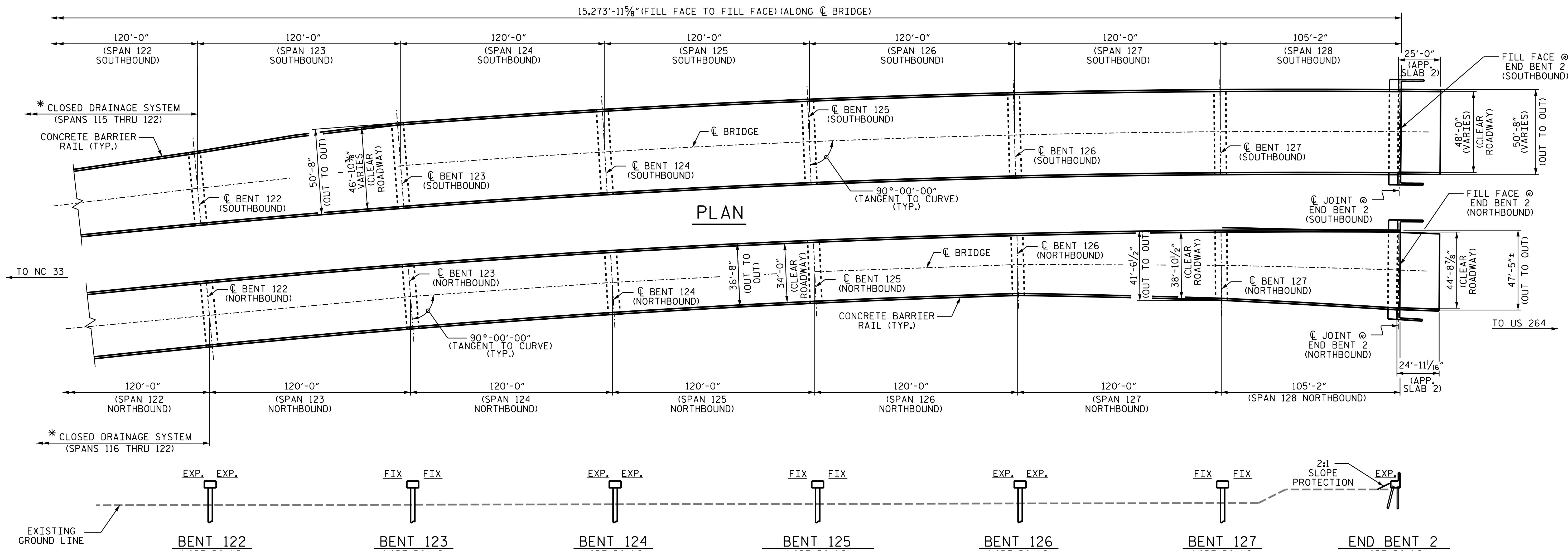
SHEET 12 OF 13



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



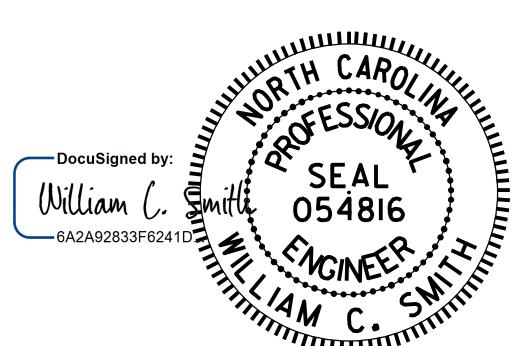
SECTION ALONG C ROADWAY
(SOUTHBOUND LANE)



SECTION ALONG C ROADWAY
(NORTHBOUND LANE)

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

SHEET 13 OF 13



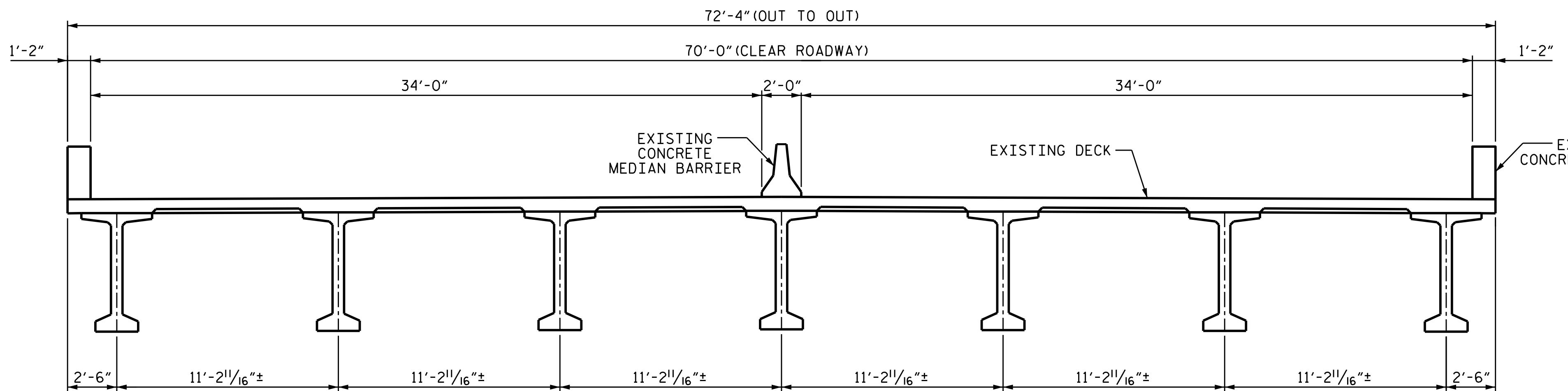
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GENERAL DRAWING
FOR BRIDGE ON US 17 BYPASS
OVER TAR RIVER
BETWEEN NC 33 AND US 264

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS					SHEET NO.	
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2			4			

TOTAL SHEETS
217



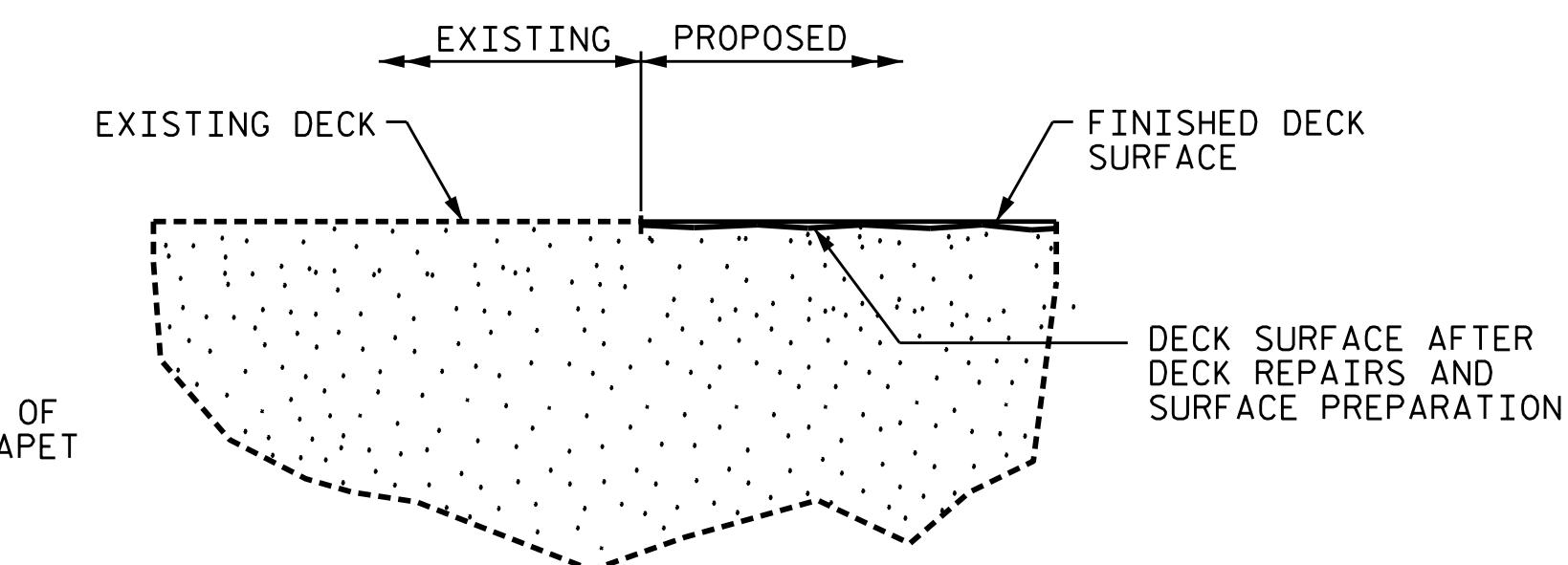
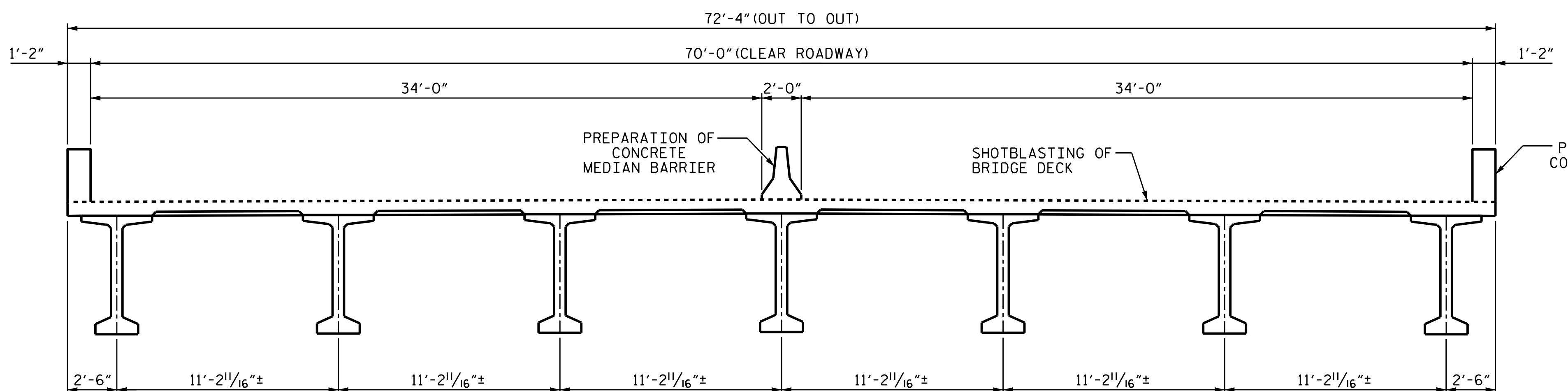
NOTES

GIRDERS ARE 72" BULB TEES.

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

TYPICAL SECTION

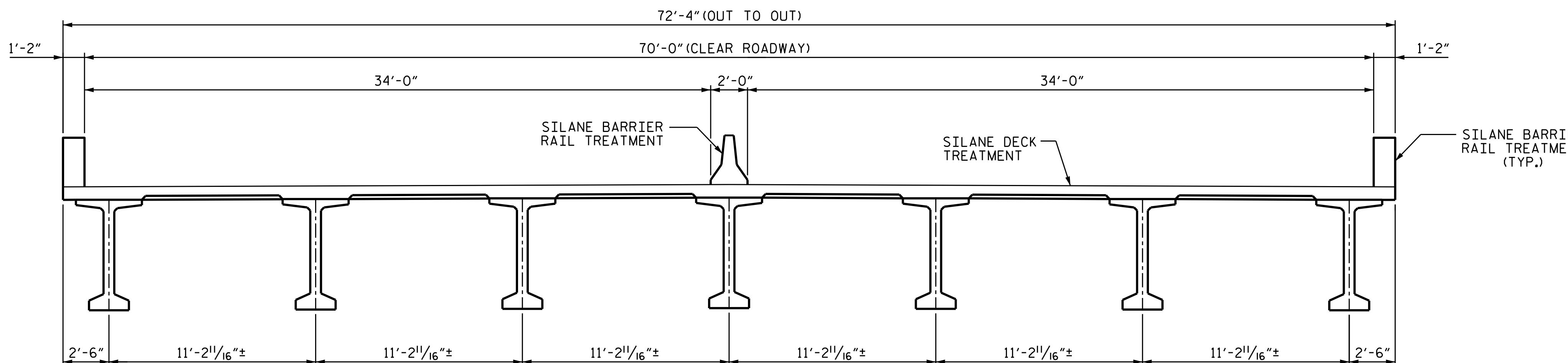
EXISTING (SPANS 1-81, 101 & 102)



DETAIL FOR SILANE DECK TREATMENT

TYPICAL SECTION

INTERMEDIATE (SPANS 1-81, 101 & 102)



PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 1 OF 13

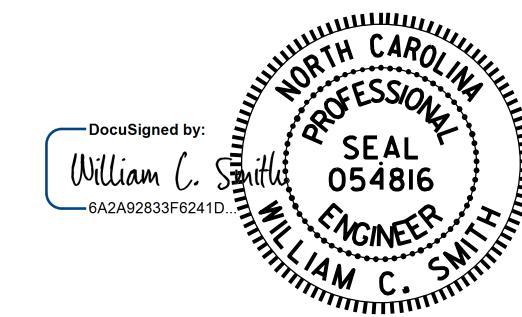
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION DETAILS

(SPANS 1-81, 101 & 102)

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

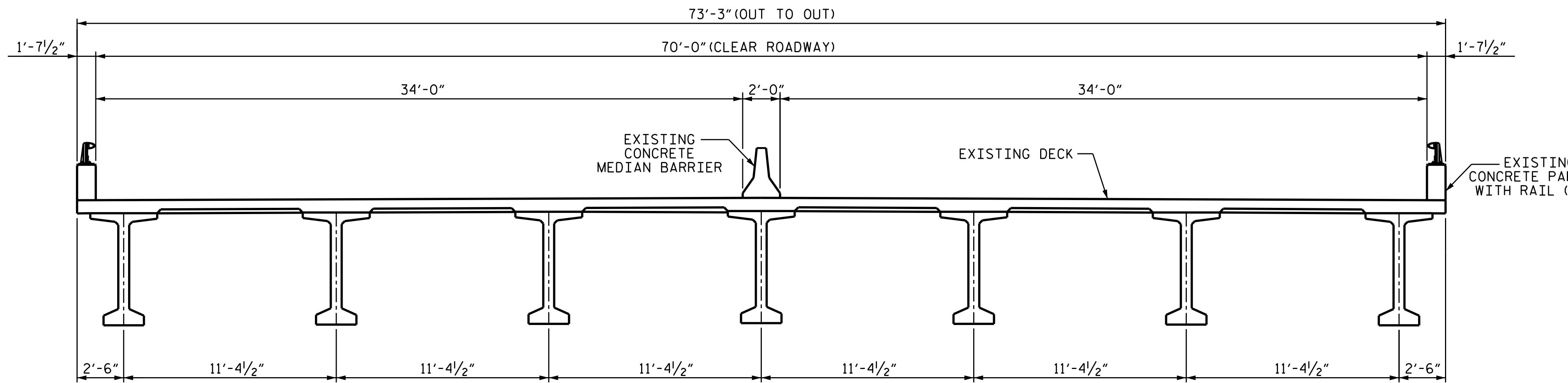
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FINAL UNLESS ALL
SIGNATURES COMPLETED



11/21/2025

REVISIONS		SHEET NO.				
NO.	BY:	DATE:	NO.	BY:	DATE:	S-15
1			3			
2			4			

TOTAL SHEETS
217



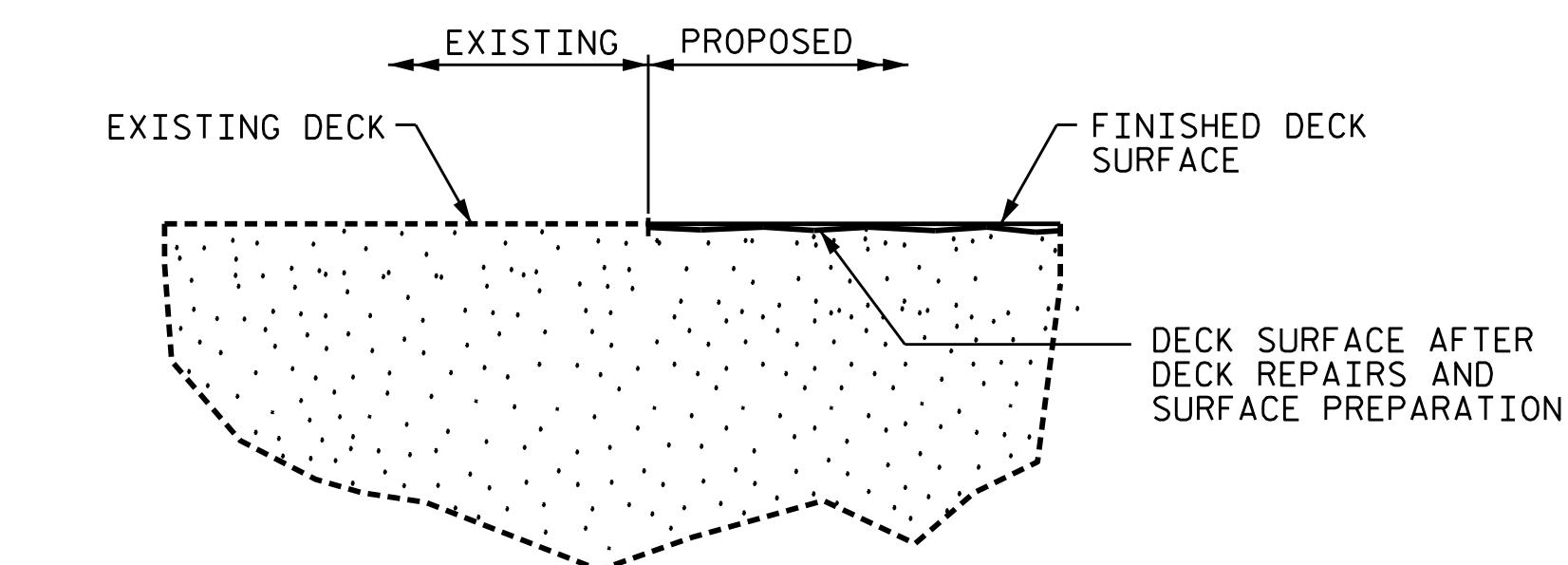
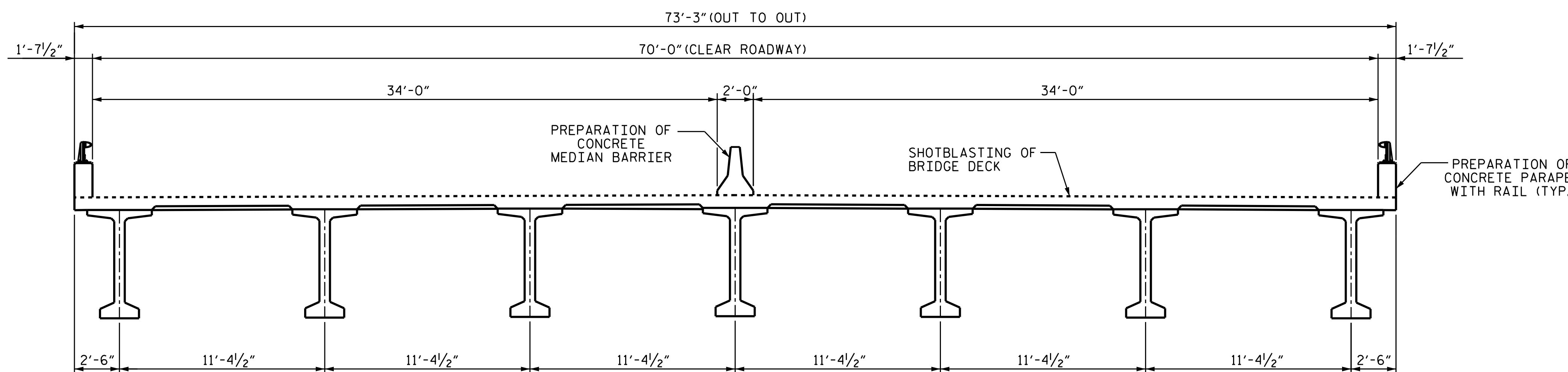
NOTES

GIRDERS ARE 72" BULB TEES.

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

TYPICAL SECTION

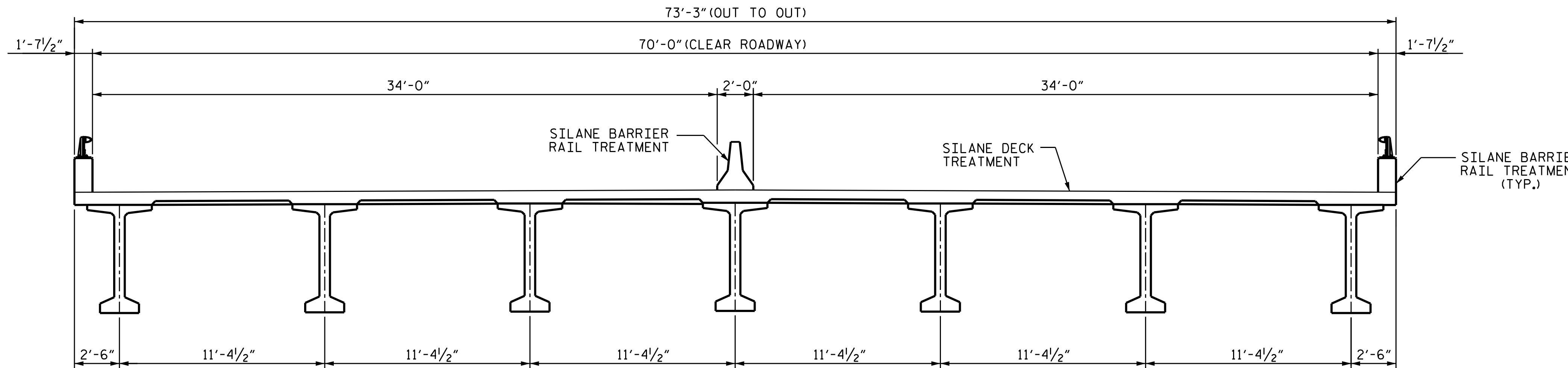
EXISTING (SPANS 82-100)



DETAIL FOR SILANE DECK TREATMENT

TYPICAL SECTION

INTERMEDIATE (SPANS 82-100)



PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 2 OF 13

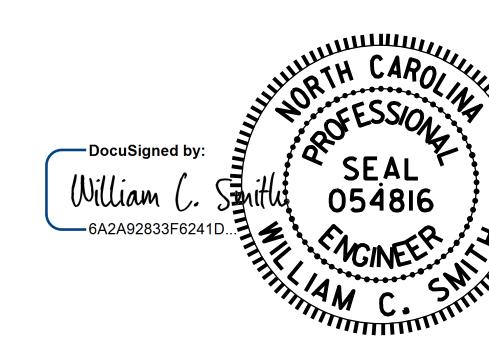
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION DETAILS

(SPANS 82-100)

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



11/21/2025

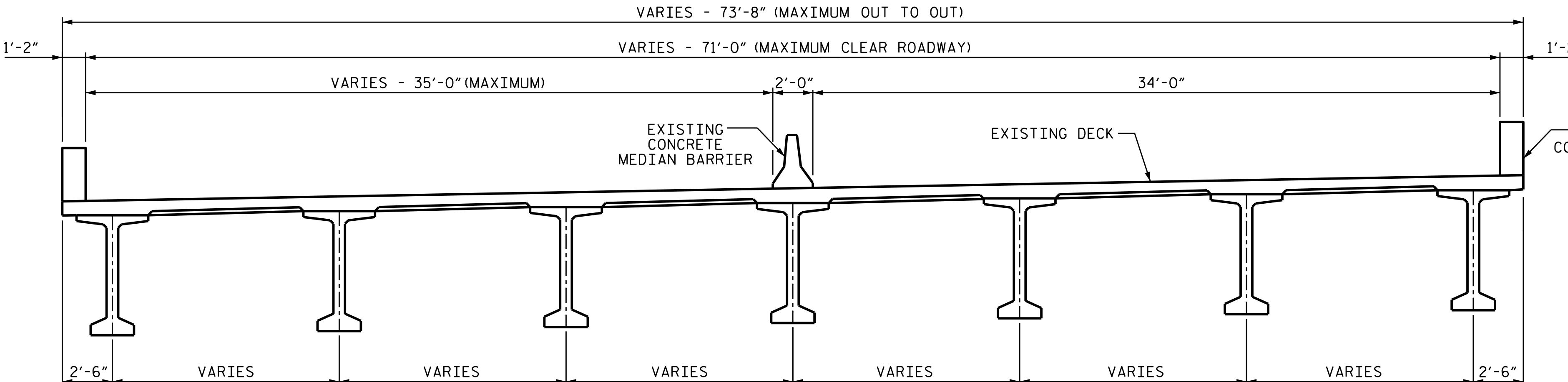
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SHEET NO.

S-16

TOTAL SHEETS

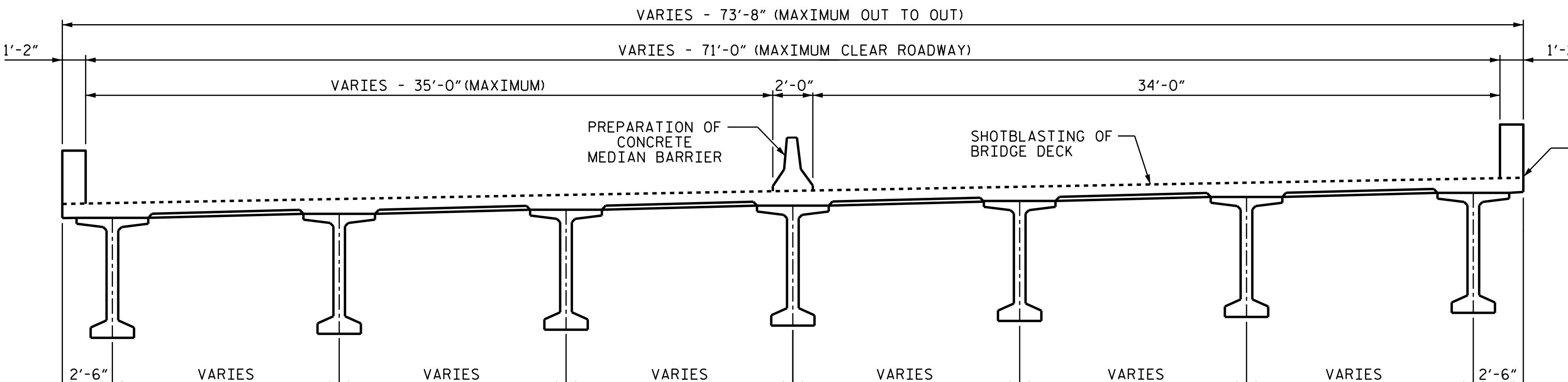
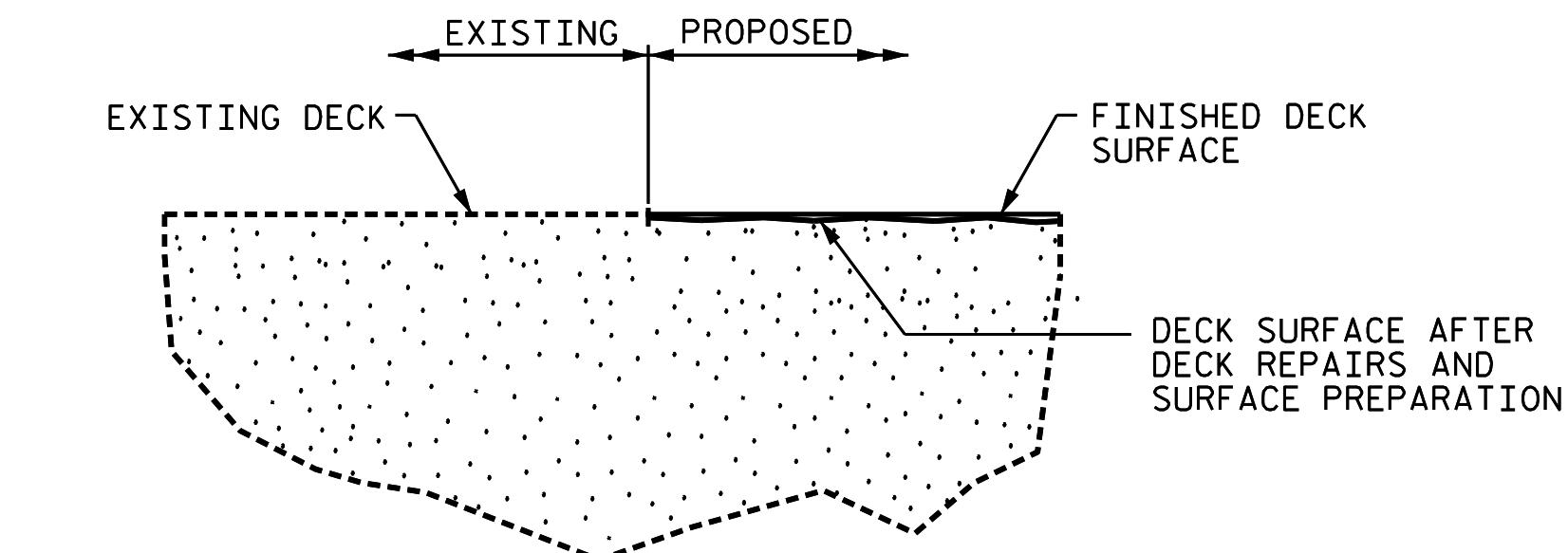
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TYPICAL SECTION

EXISTING

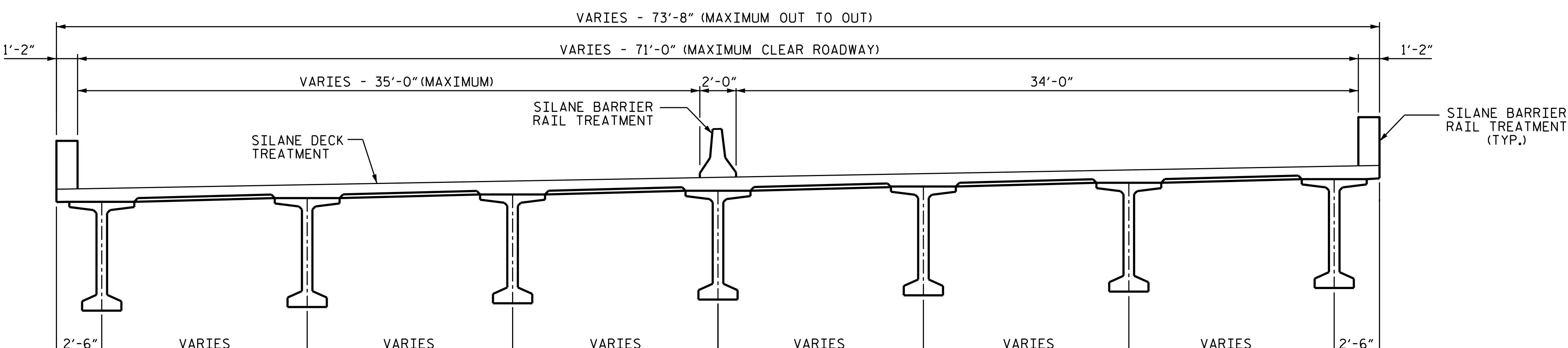
NOTES
GIRDERS ARE 72" BULB TEES.
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT,
SEE SHEET S-213.



TYPICAL SECTION

INTERMEDIATE

DETAIL FOR
SILANE DECK TREATMENT



TYPICAL SECTION

PROPOSED

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

SHEET 3 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION
DETAILS

(SPAN 103)

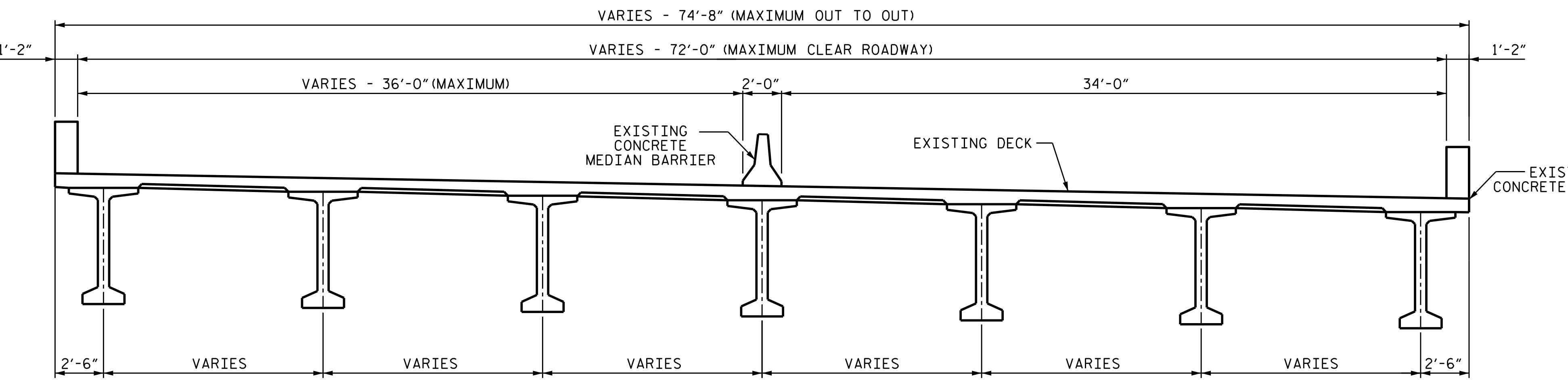


11/21/2025

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

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

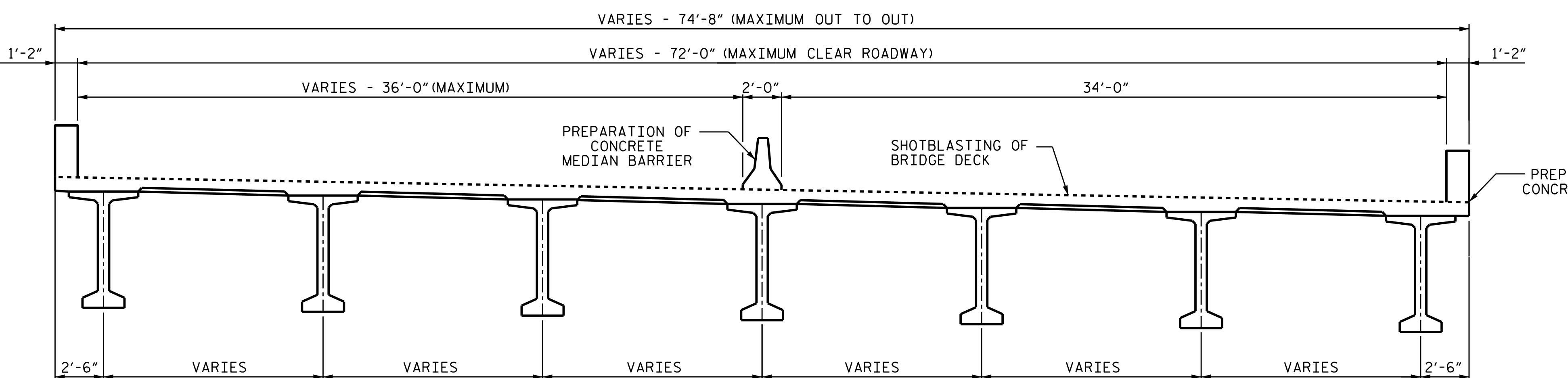
REVISIONS		SHEET NO.	
1	BY:	DATE:	NO. S-17 TOTAL SHEETS 217
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TYPICAL SECTION

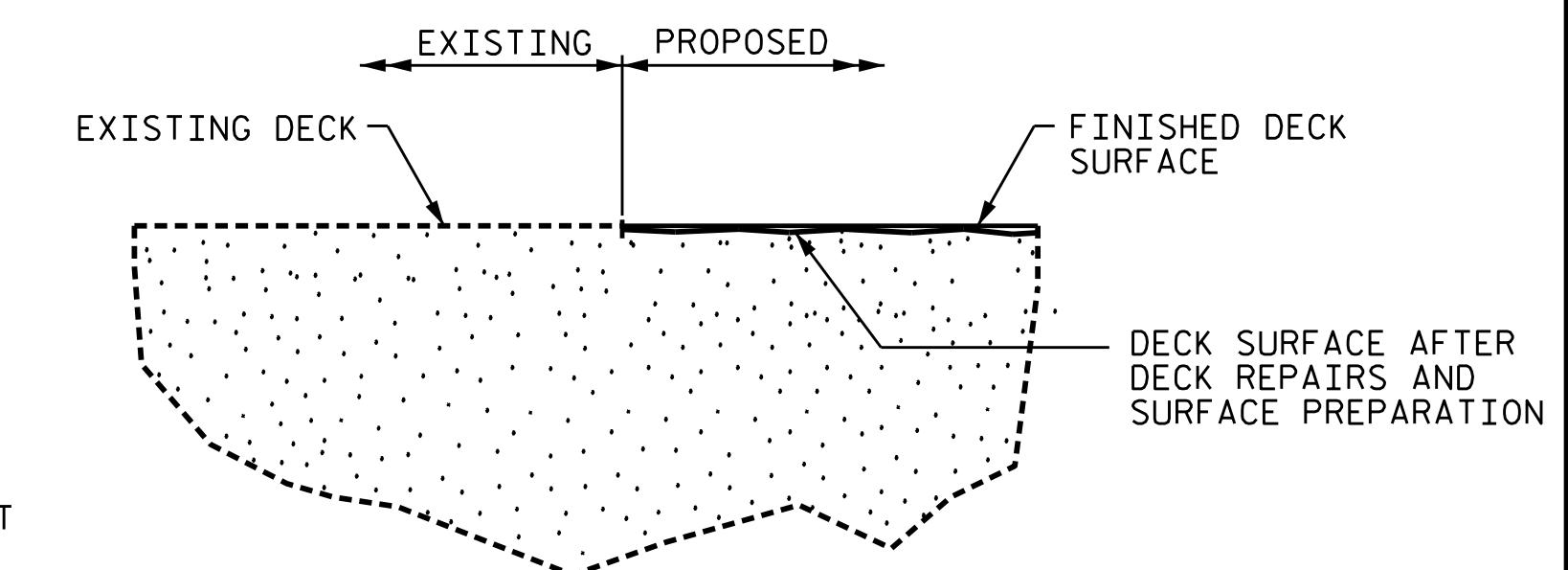
EXISTING

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

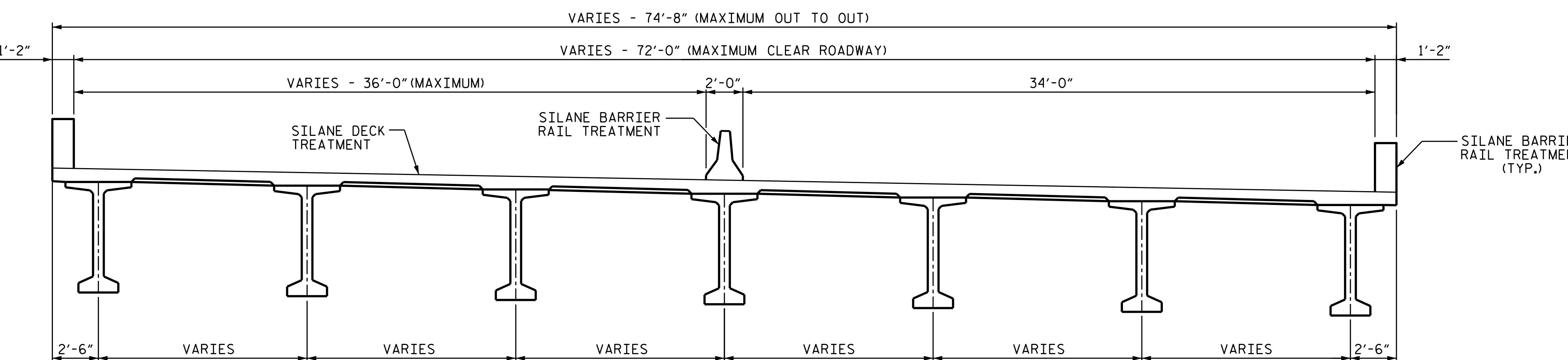


TYPICAL SECTION

PROPOSED



DETAIL FOR
SILANE DECK TREATMENT



TYPICAL SECTION

PROPOSED

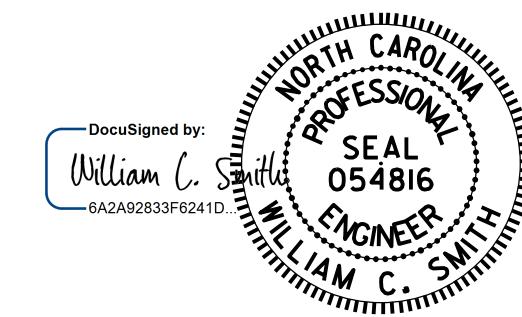
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 4 OF 15

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**TYPICAL SECTION
DETAILS**

(SPAN 104)



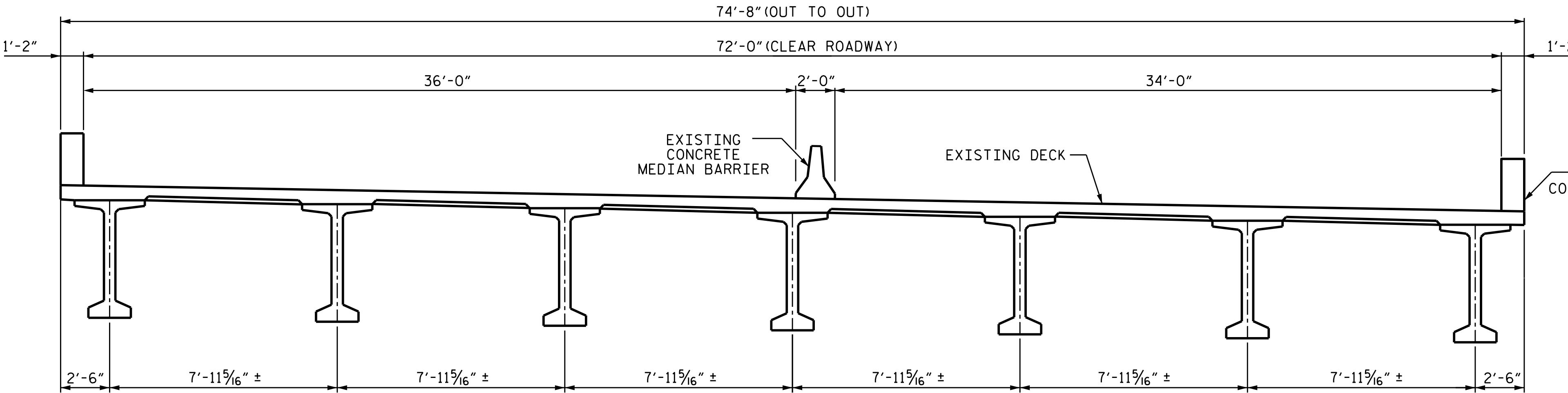
11/21/2025

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

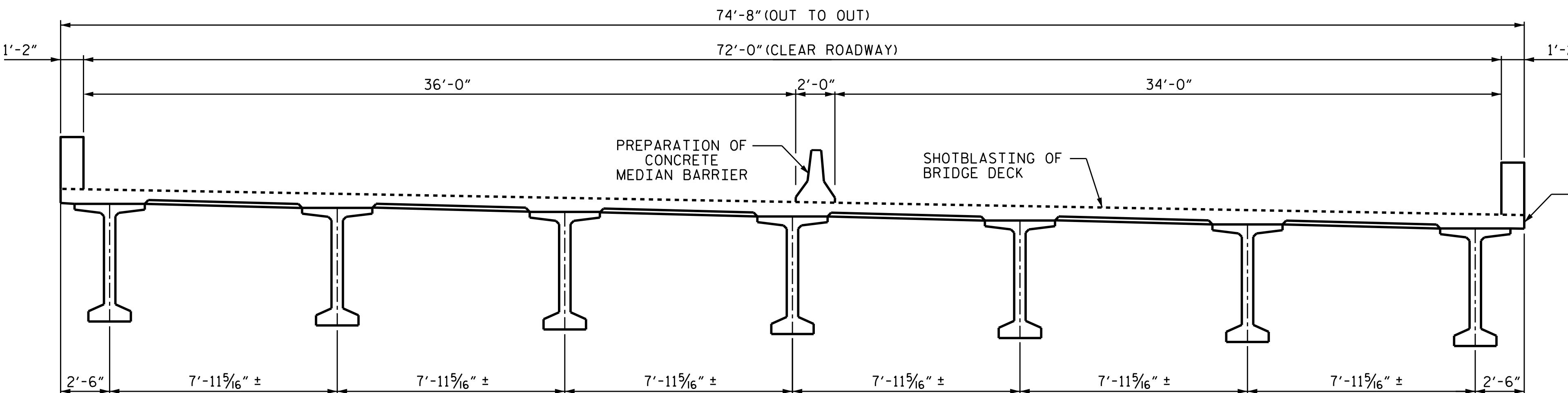
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2			4			

TOTAL SHEETS
217



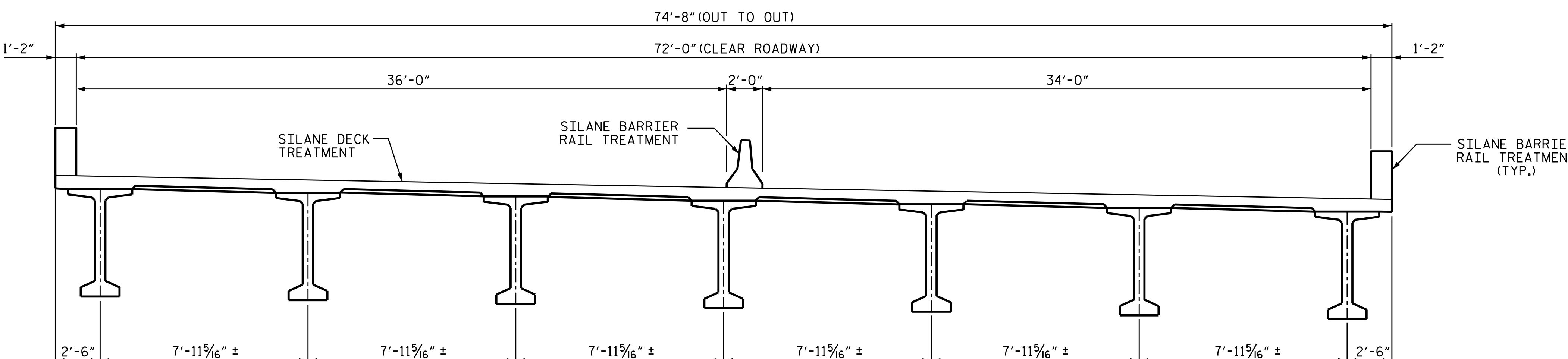
TYPICAL SECTION

EXISTING (SPANS 105-110)



TYPICAL SECTION

PROPOSED (SPANS 105-110)



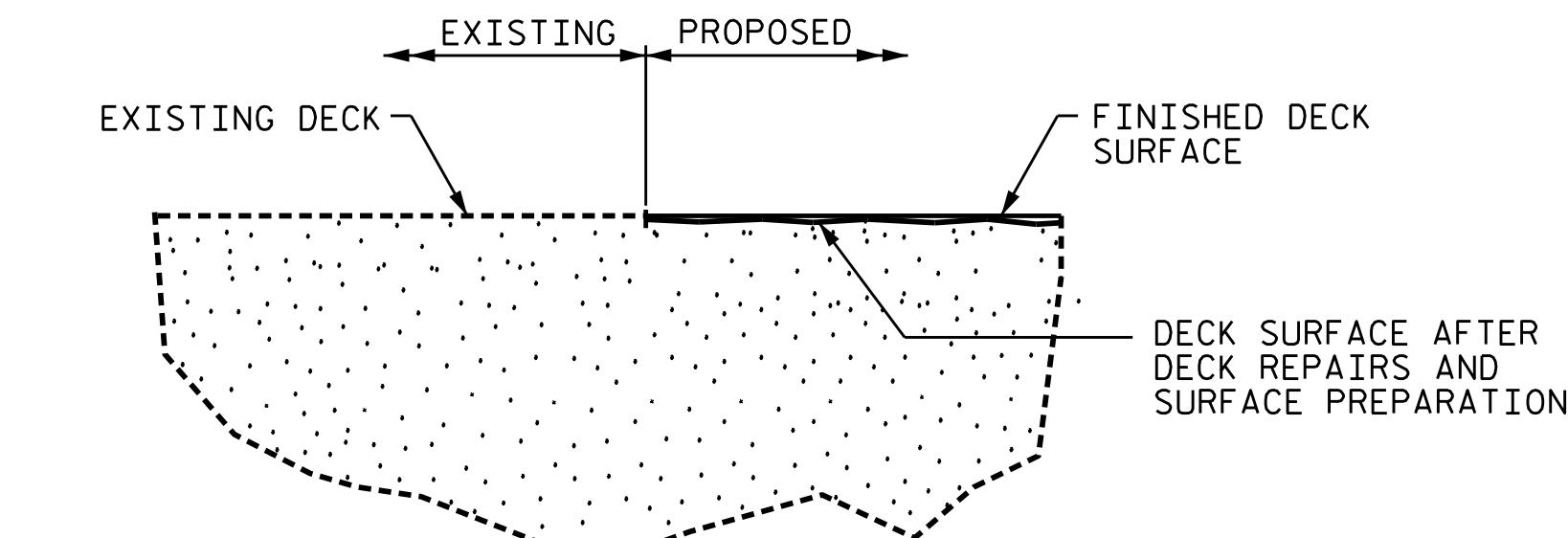
TYPICAL SECTION

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

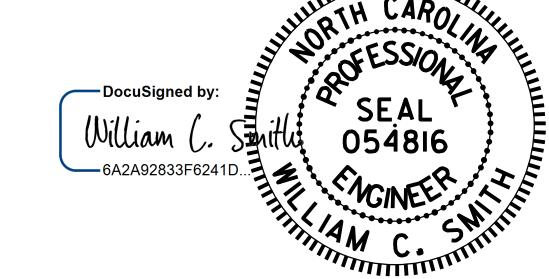
BRIDGE NO. 060353

SHEET 5 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION DETAILS

(SPAN 105-110)



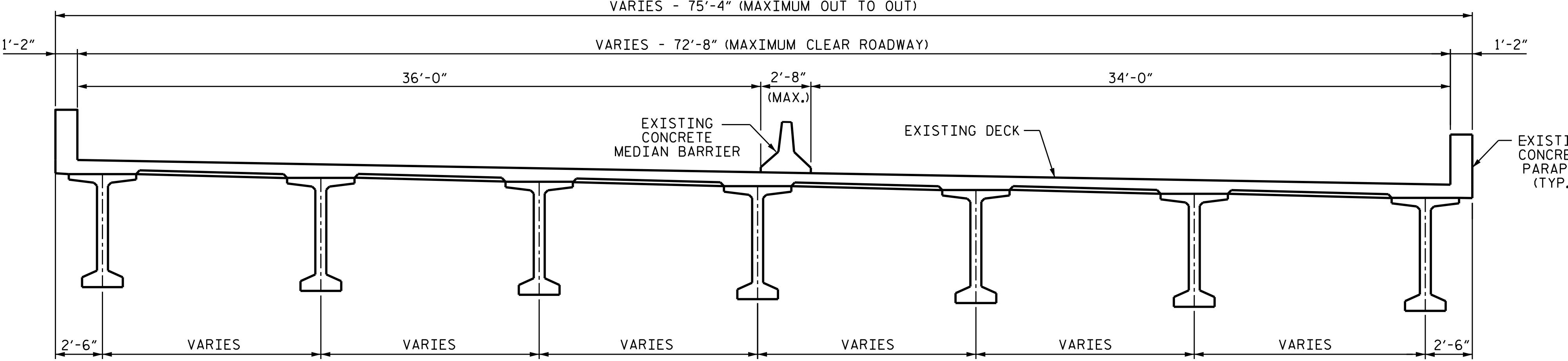
11/21/2025

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
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2			4			

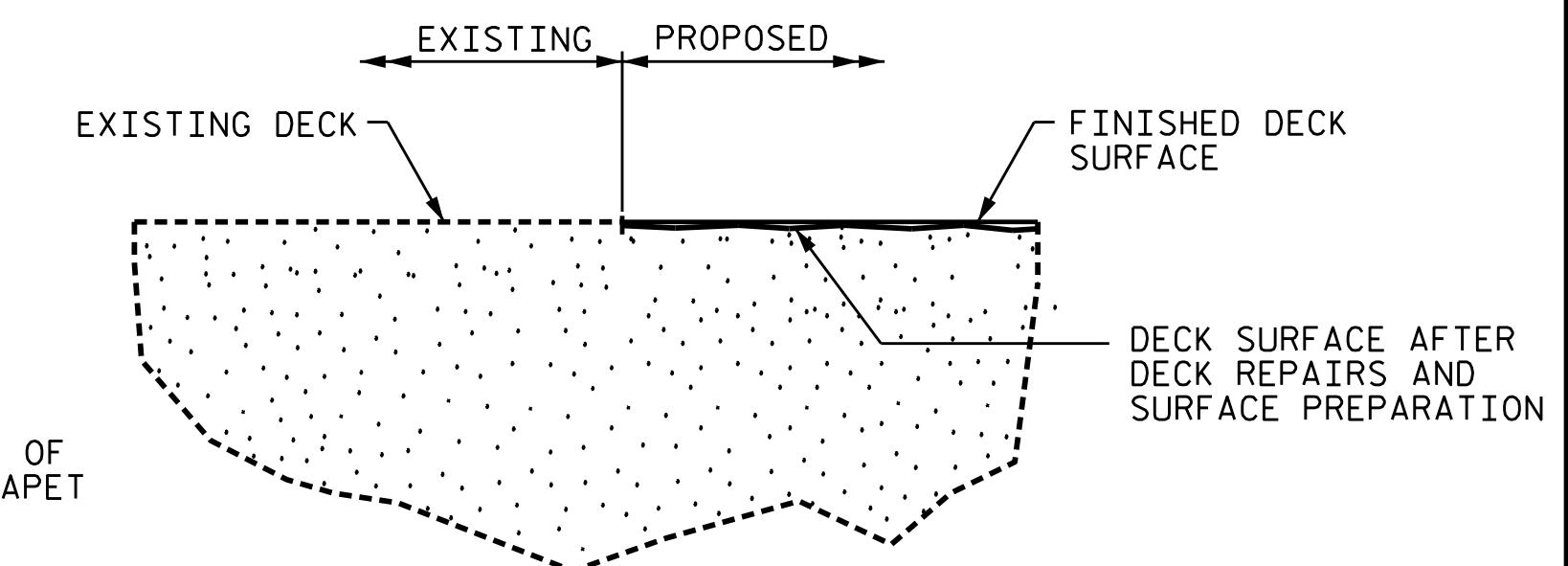
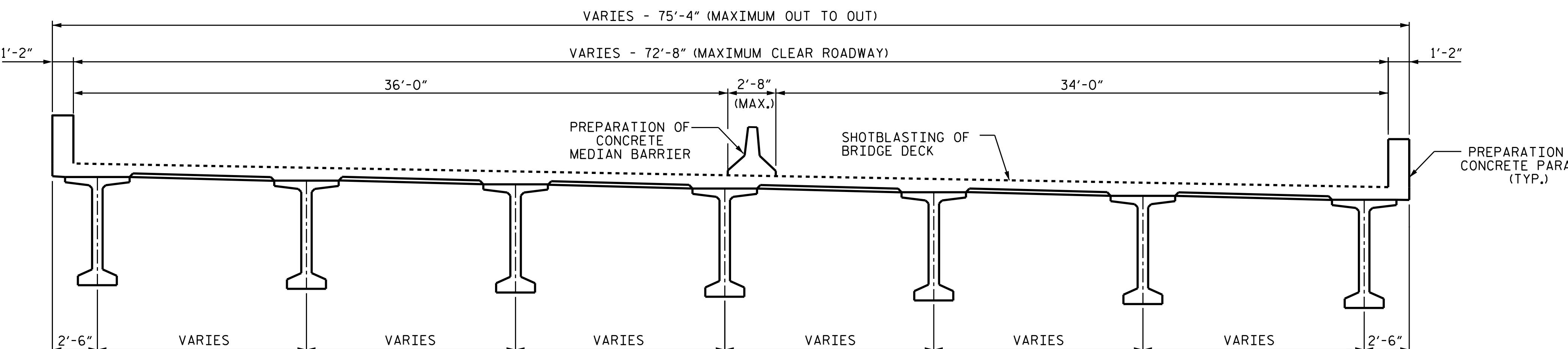
TOTAL SHEETS 217



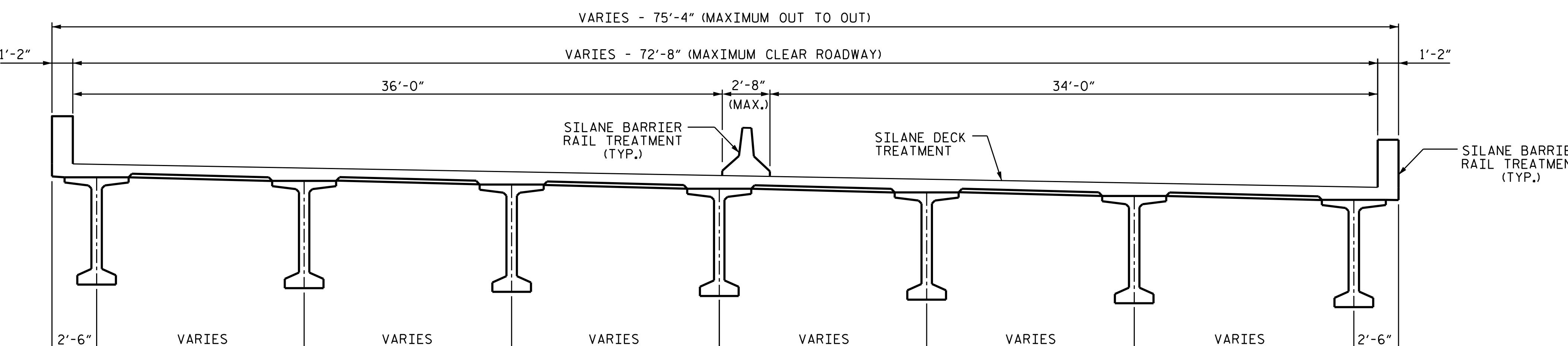
NOTES
GIRDERS ARE 72" BULB TEES.
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT,
SEE SHEET S-213.

TYPICAL SECTION

EXISTING



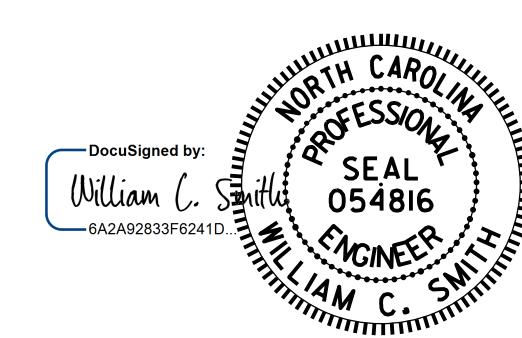
DETAIL FOR SILANE DECK TREATMENT



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

SHEET 6 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

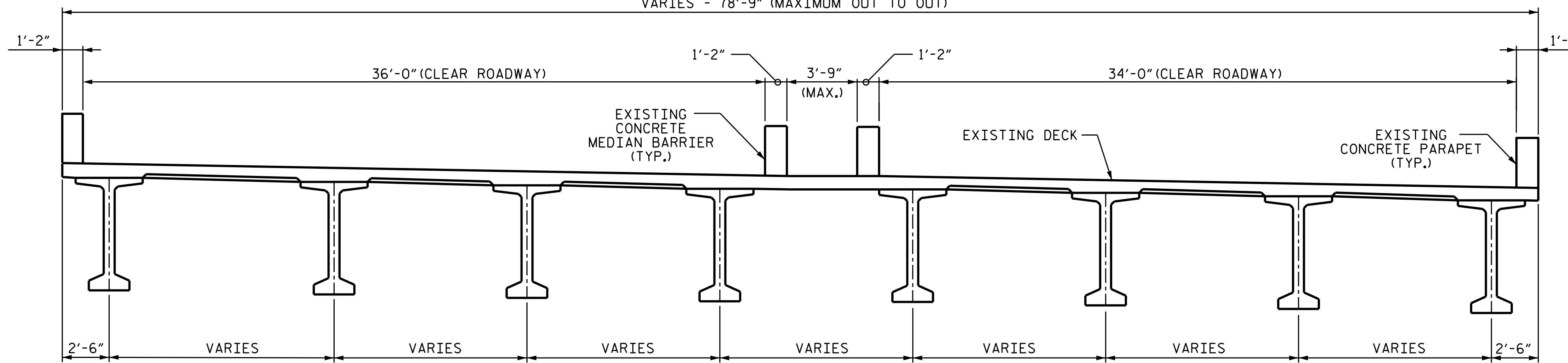


TYPICAL SECTION
DETAILS
(SPAN 111)

REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-20
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2			4			

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



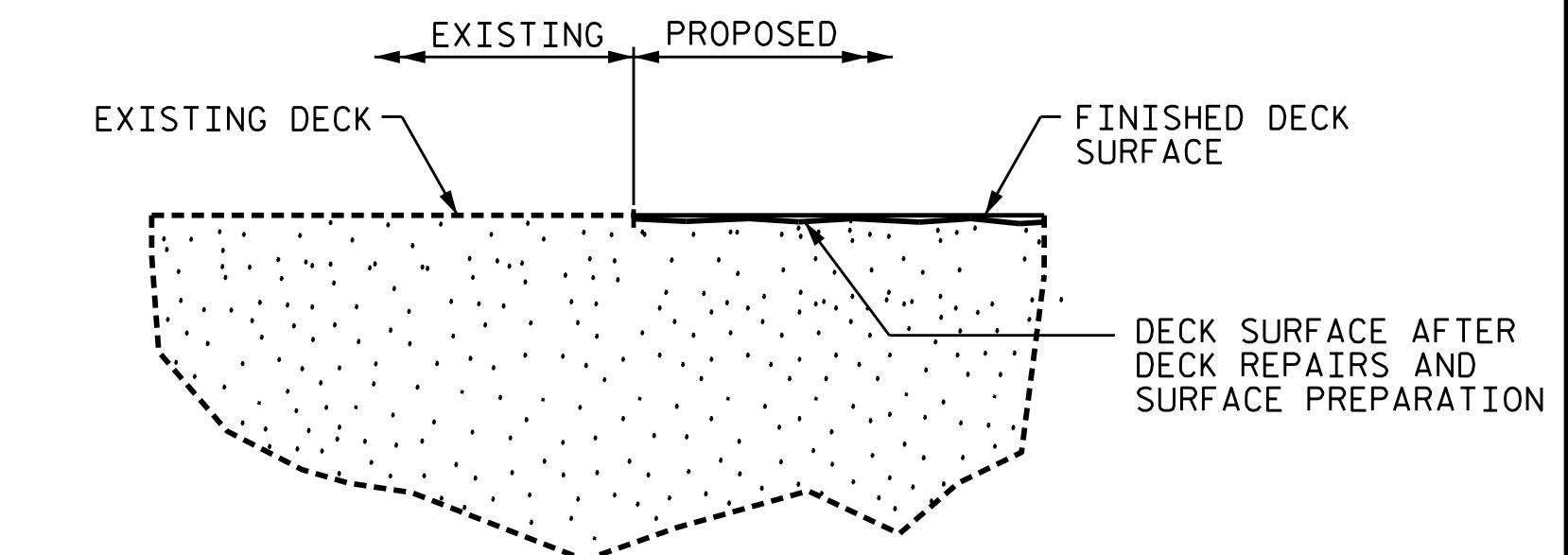
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GIRDERS ARE 72" BULB TEES.

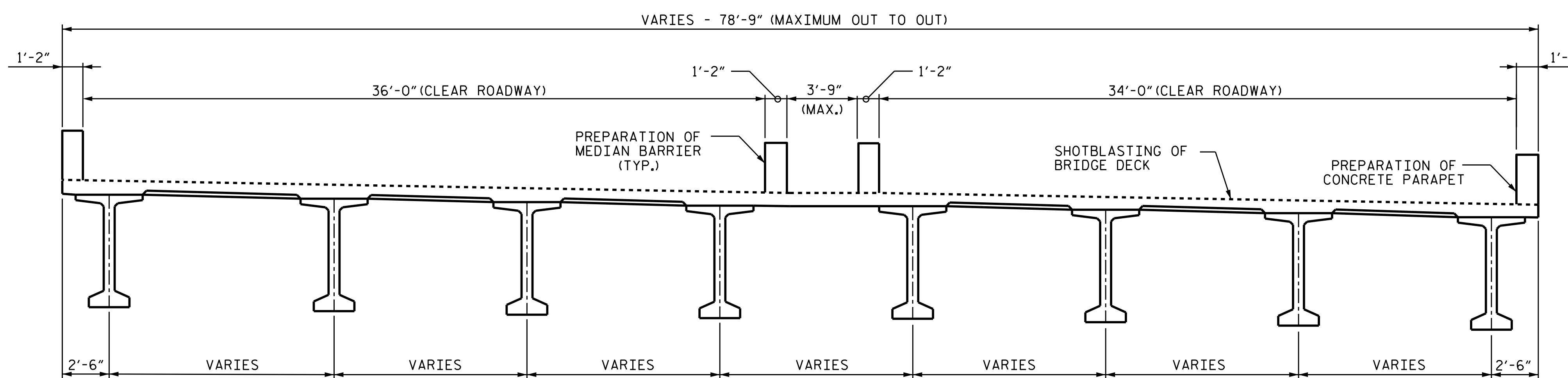
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.

TYPICAL SECTION

EXISTING

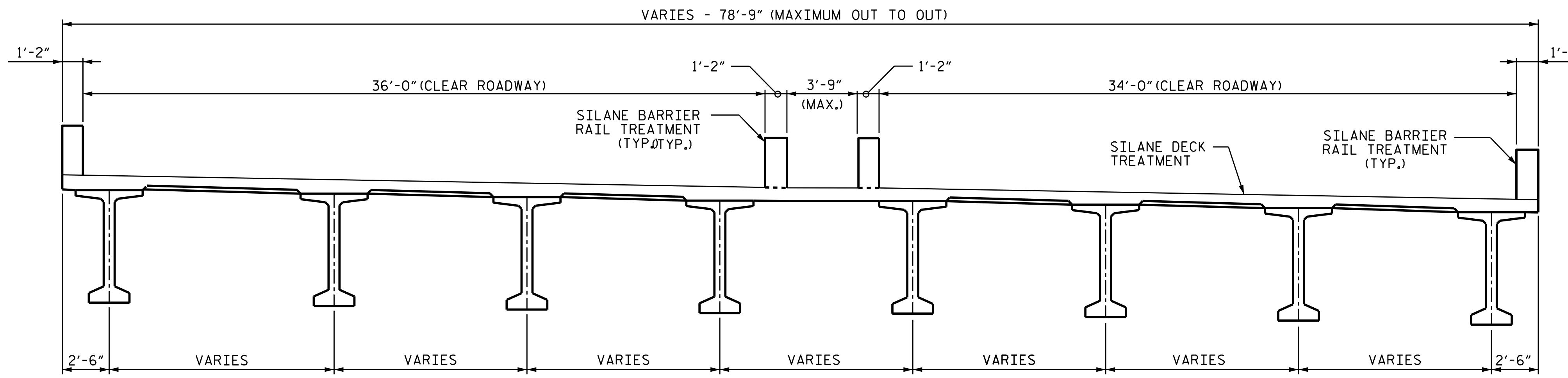


DETAIL FOR SILANE DECK TREATMENT



TYPICAL SECTION

INTERMEDIATE



TYPICAL SECTION

PROPOSED

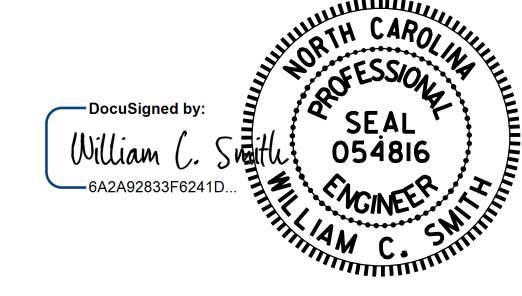
PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 7 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION DETAILS

(SPAN 112)



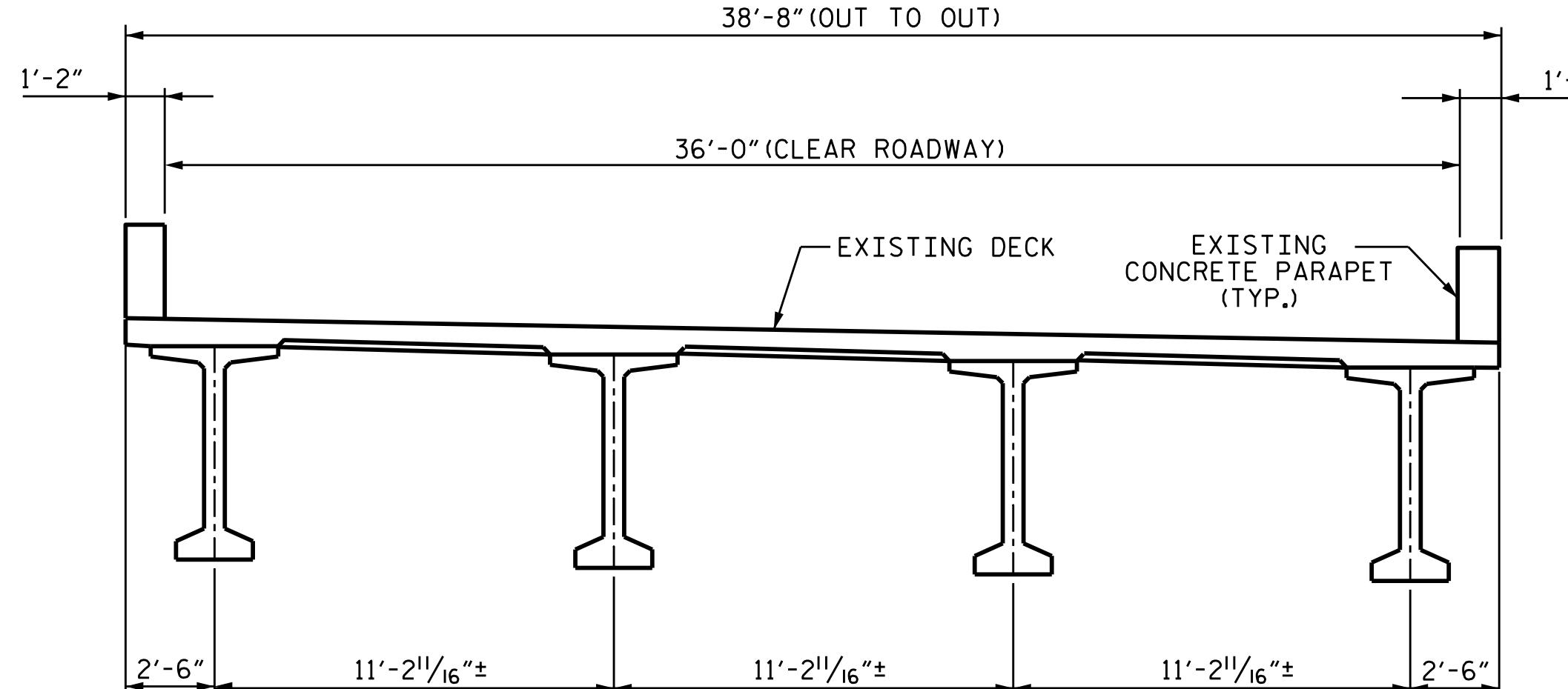
11/21/2025

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

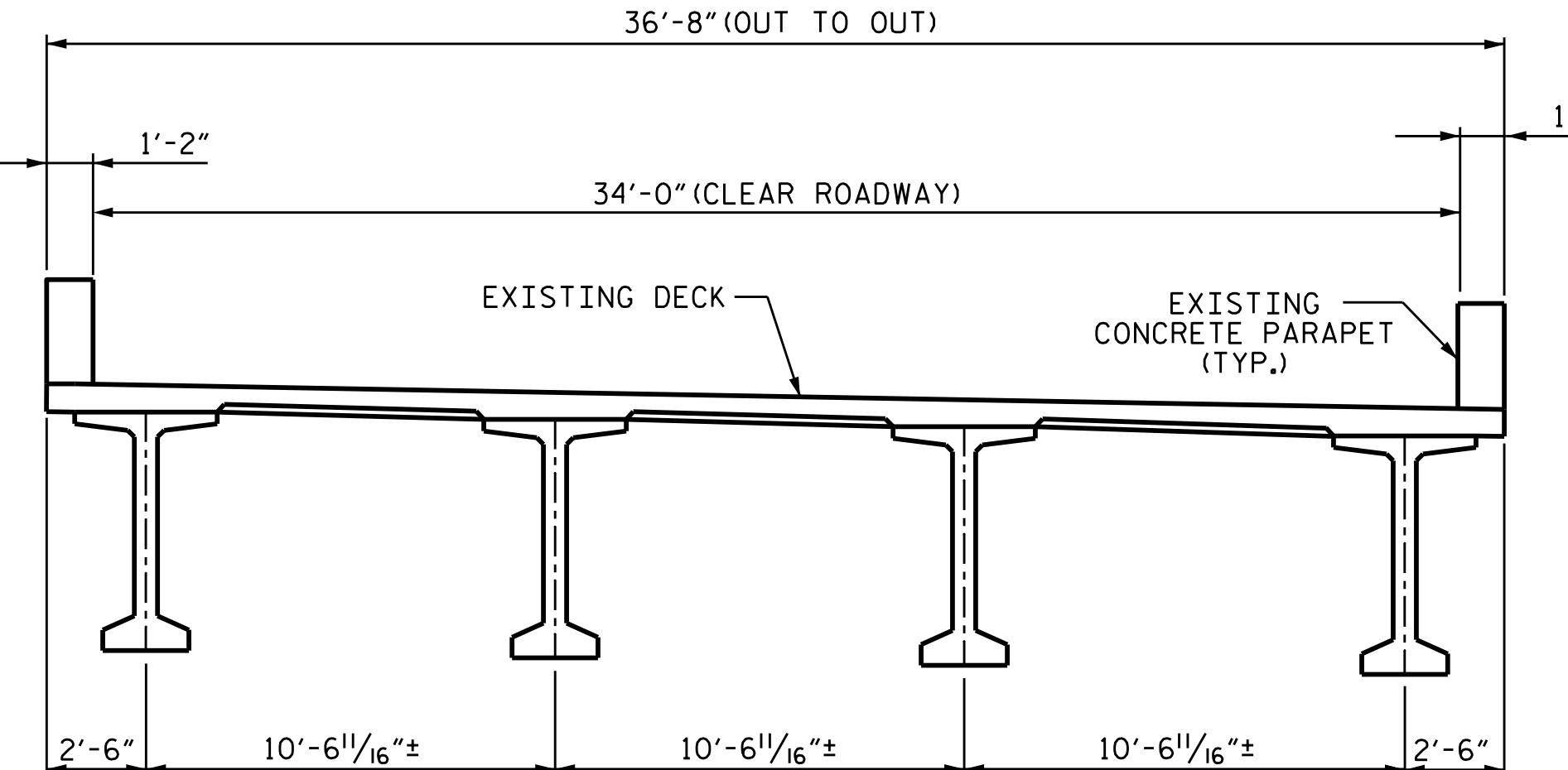
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2			4			

TOTAL SHEETS 217



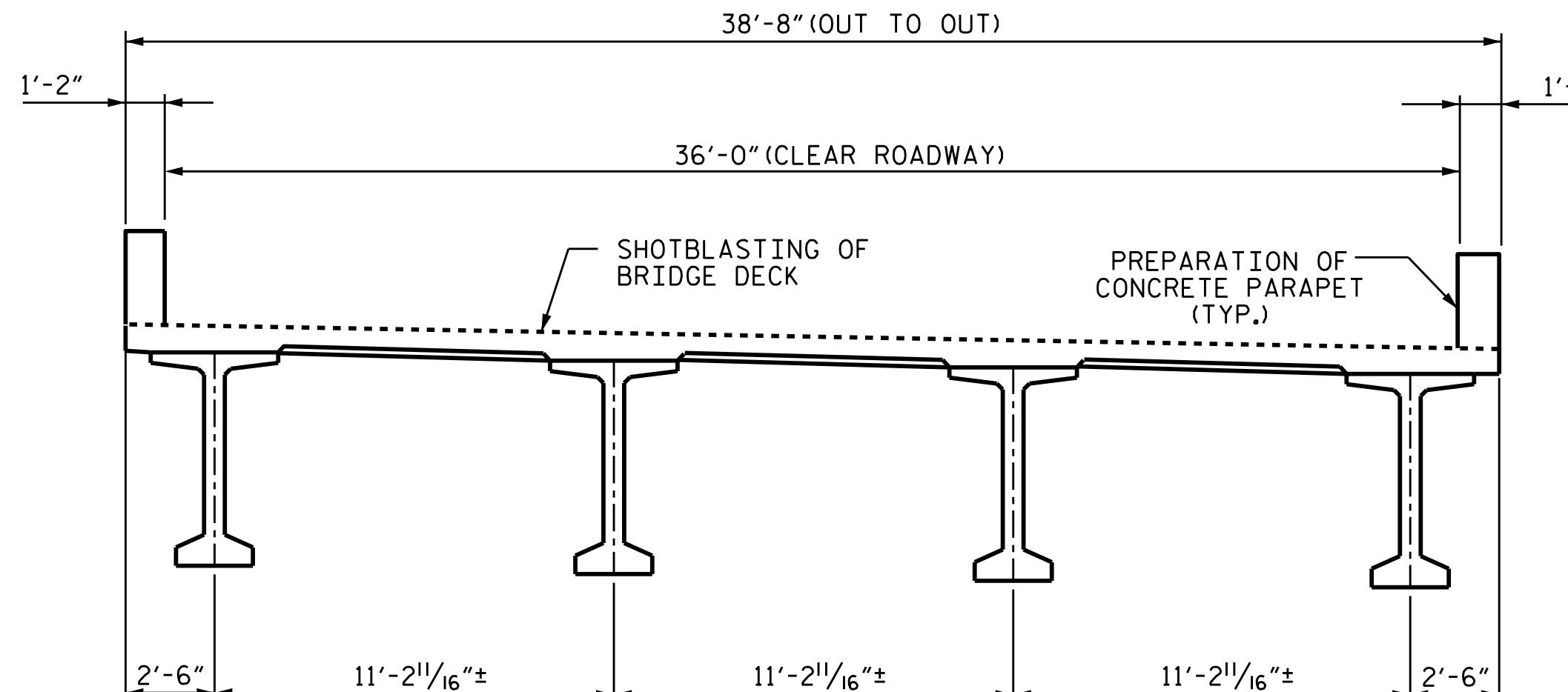
TYPICAL SECTION

EXISTING (SOUTHBOUND)
(SPANS 113-120)



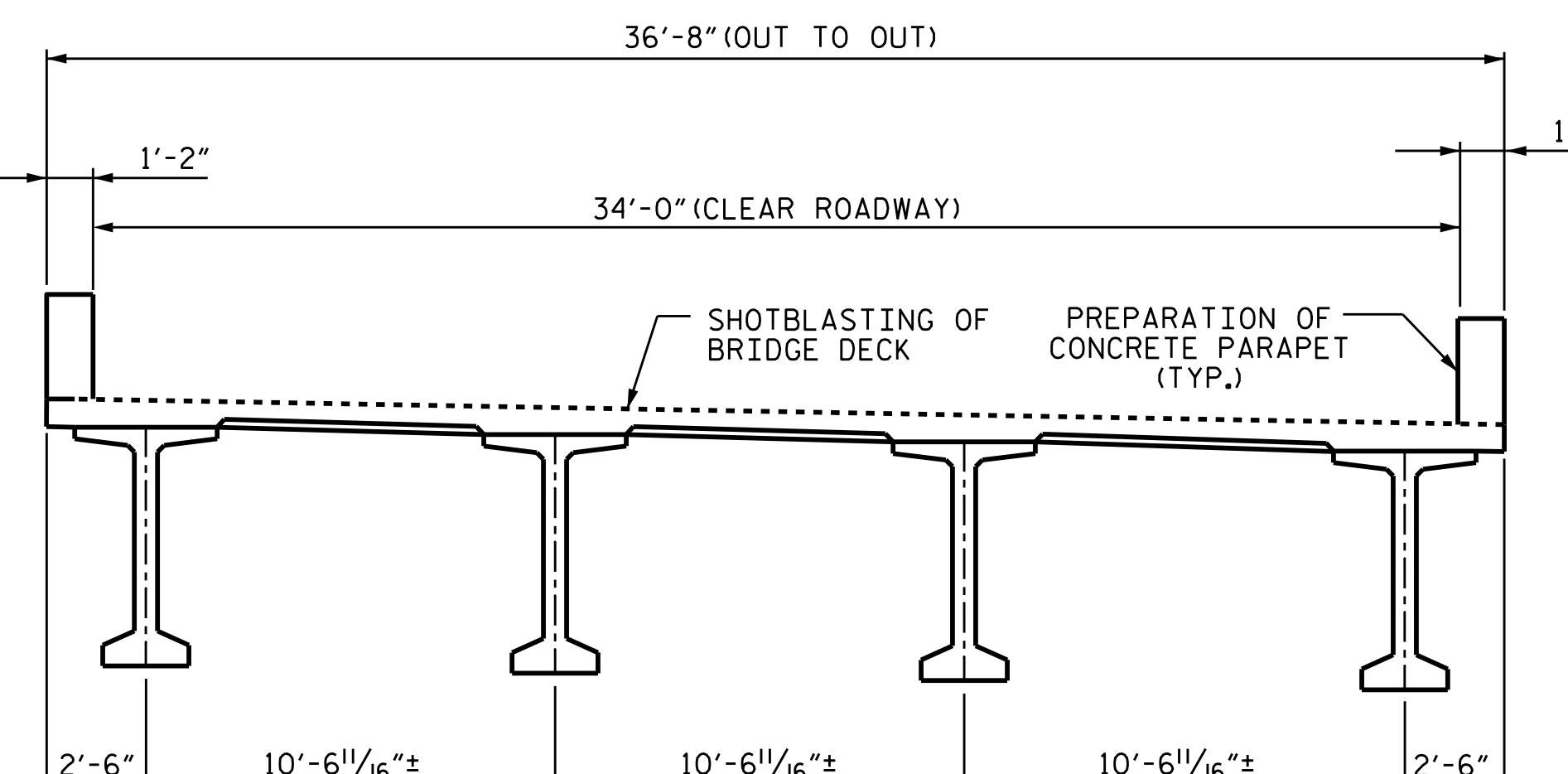
TYPICAL SECTION

EXISTING (NORTHBOUND)
(SPANS 113-126)



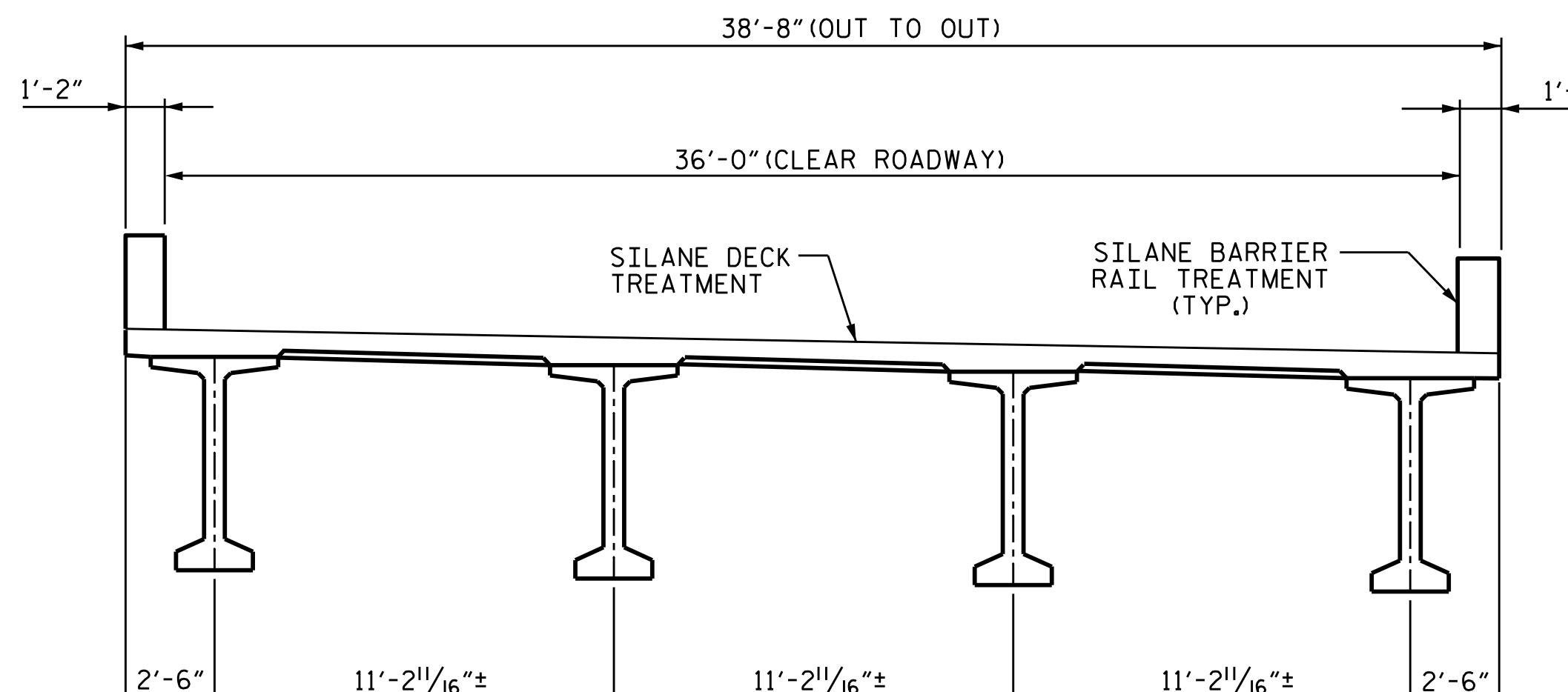
TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)
(SPANS 113-120)



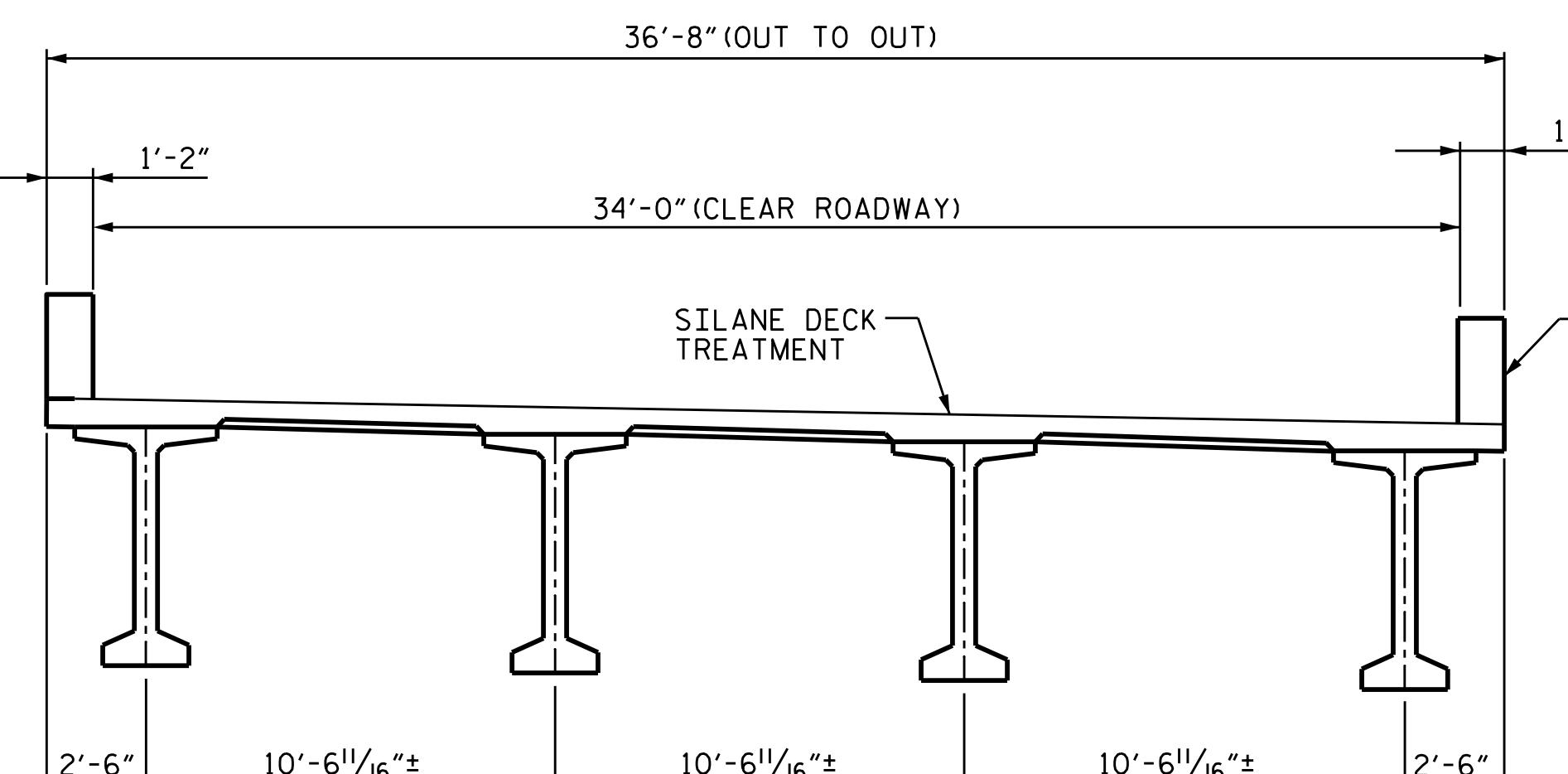
TYPICAL SECTION

INTERMEDIATE (NORTHBOUND)
(SPANS 113-126)



TYPICAL SECTION

PROPOSED (SOUTHBOUND)
(SPANS 113-120)



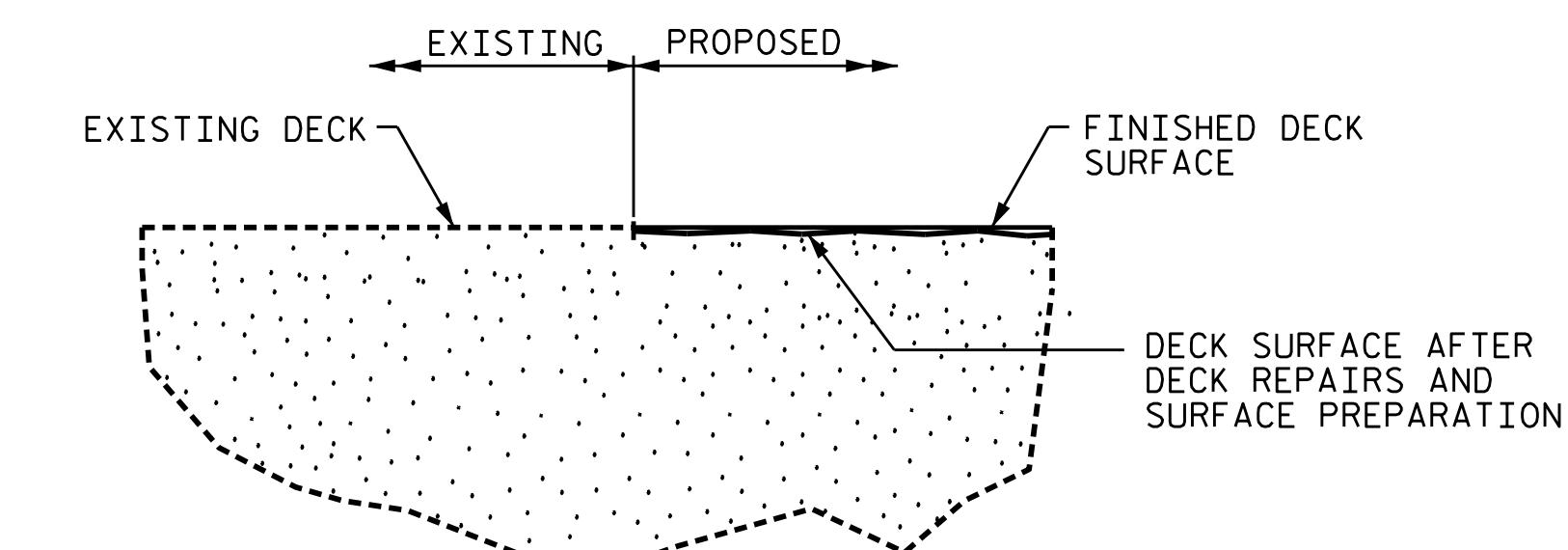
TYPICAL SECTION

PROPOSED (NORTHBOUND)
(SPANS 113-126)

NOTES

GIRDERS ARE 72" BULB TEES.

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



DETAIL FOR
SILANE DECK TREATMENT

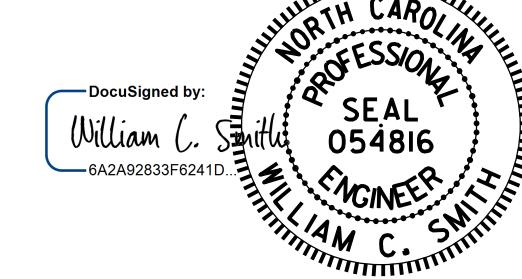
PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 8 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



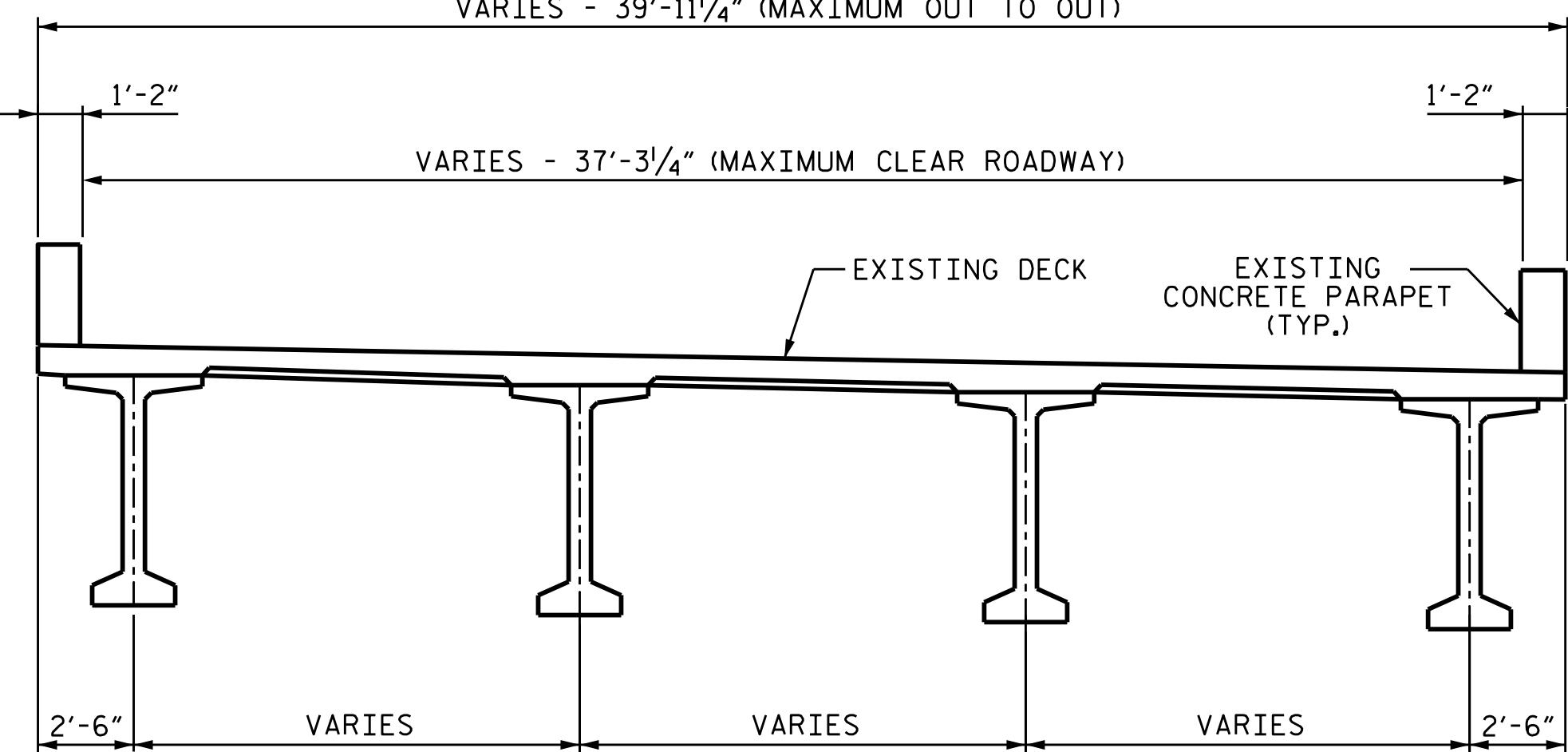
TYPICAL SECTION
DETAILS

SOUTHBOUND NORTHBOUND
(SPANS 113-120) (SPANS 113-126)

REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-22
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2			4			

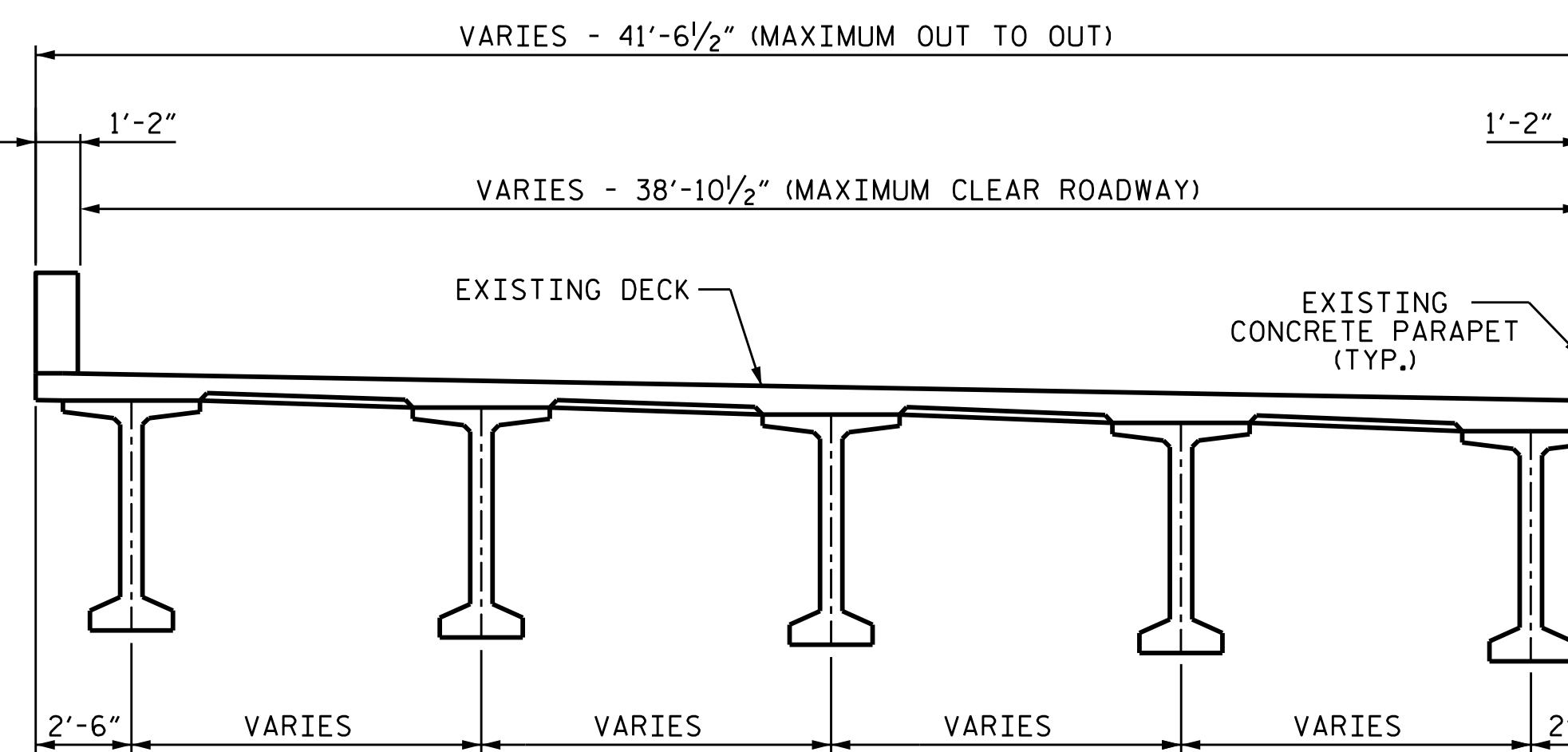
DOCUMENT NOT CONSIDERED
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DRAWN BY : KIM BEARD / S.T. SANDOR DATE : 4/24/24
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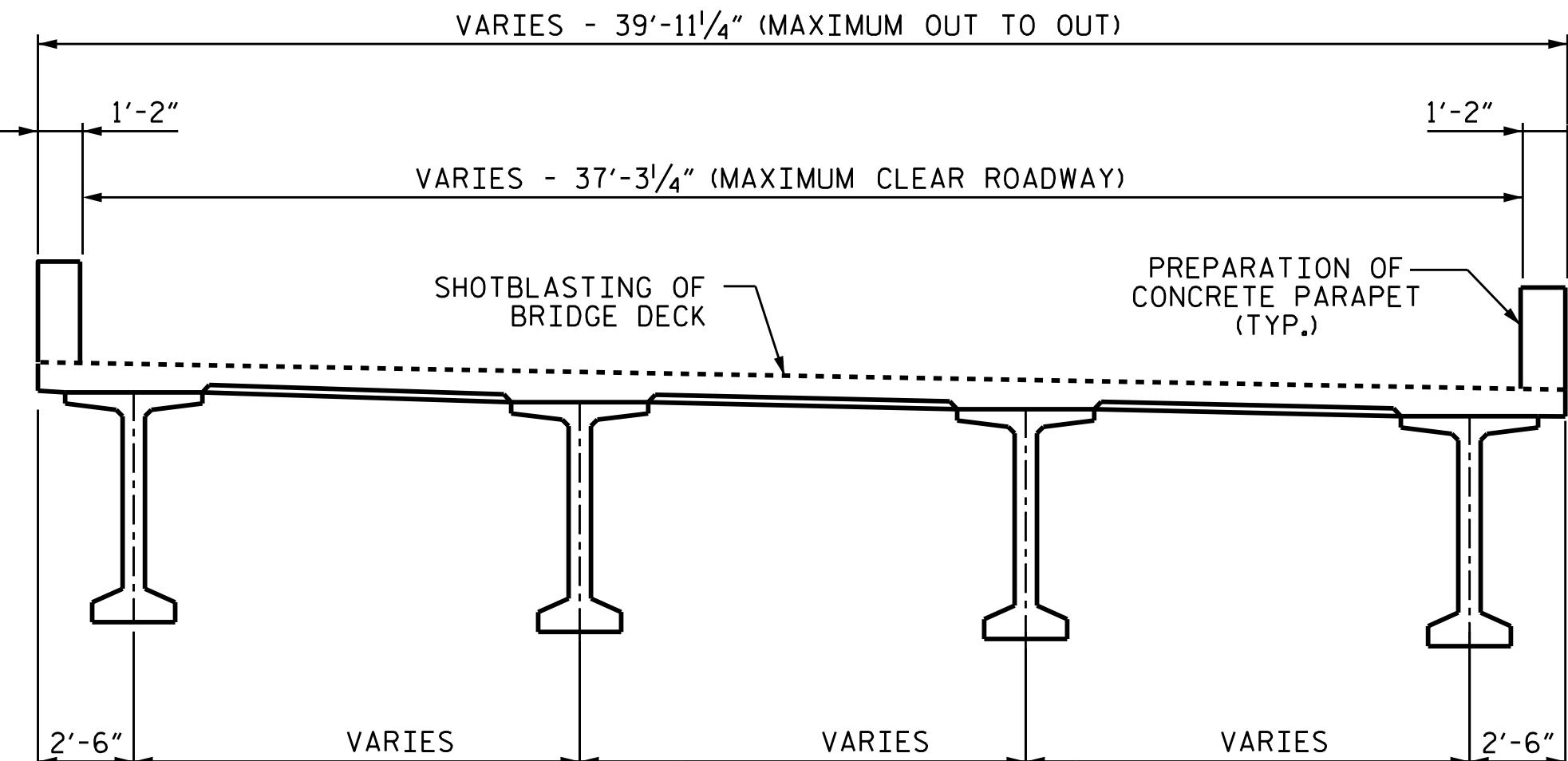
TYPICAL SECTION

EXISTING (SOUTHBOUND)
(SPAN 121)



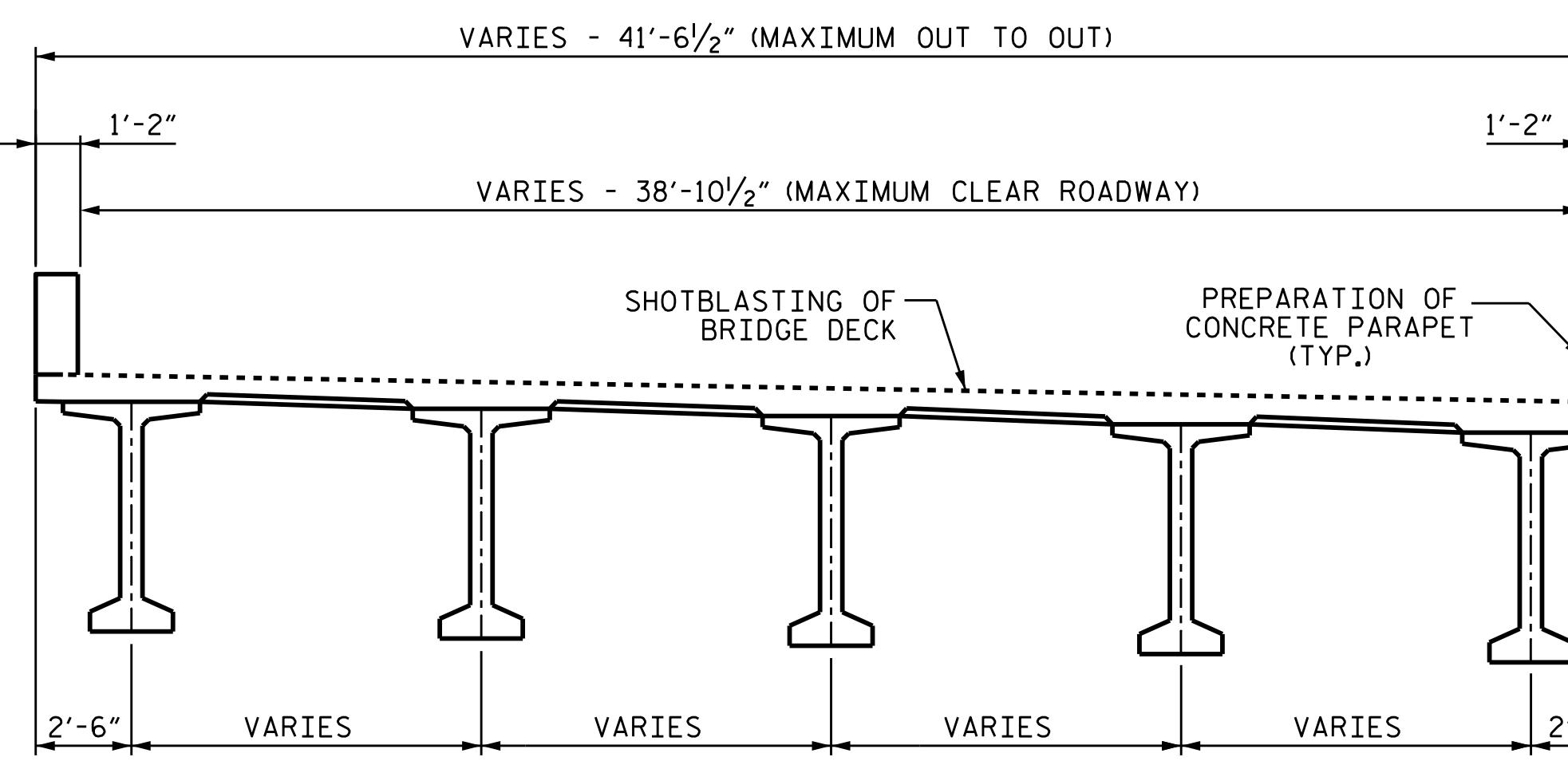
TYPICAL SECTION

EXISTING (NORTHBOUND)
(SPAN 127)



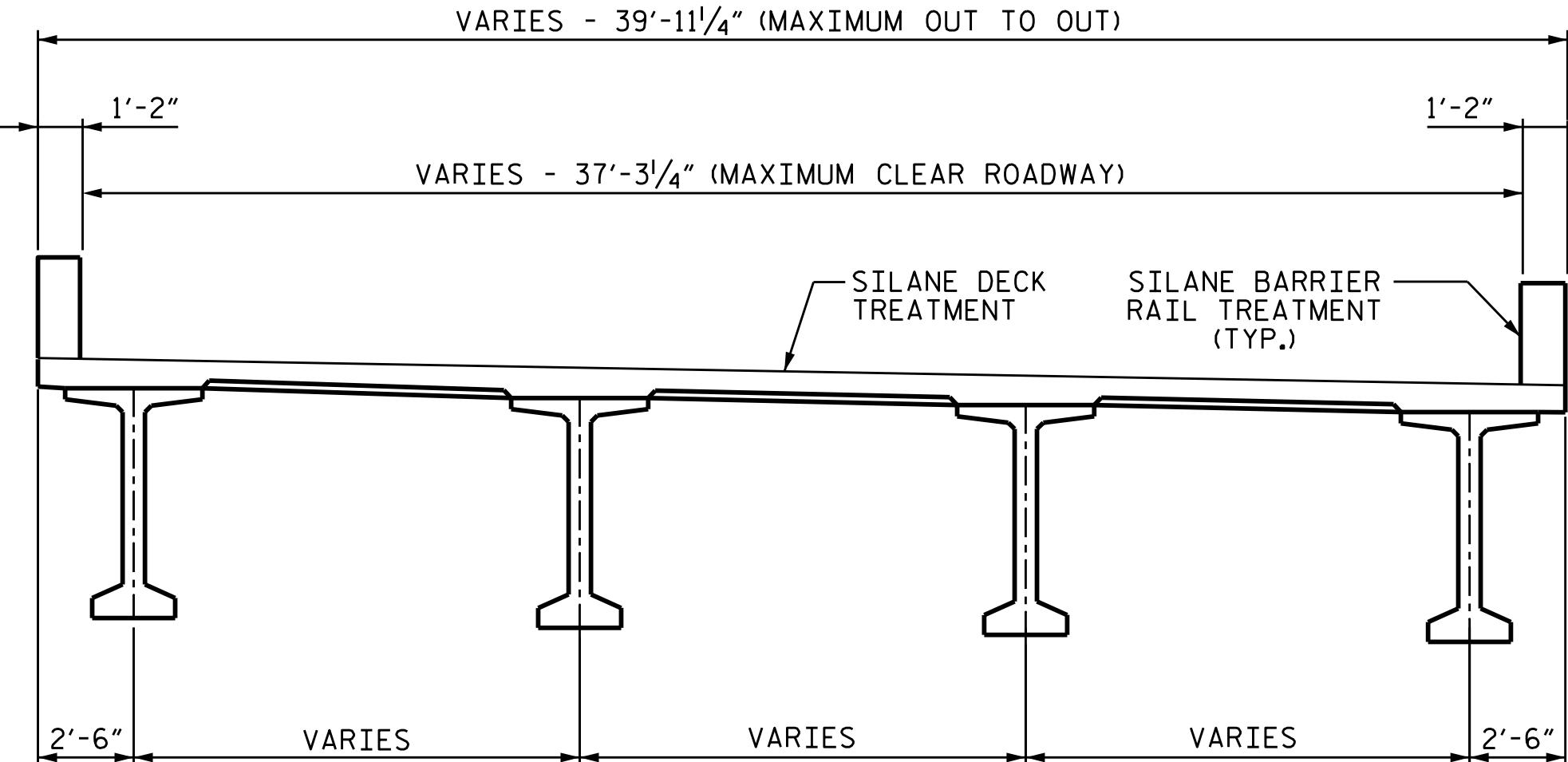
TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)
(SPAN 121)



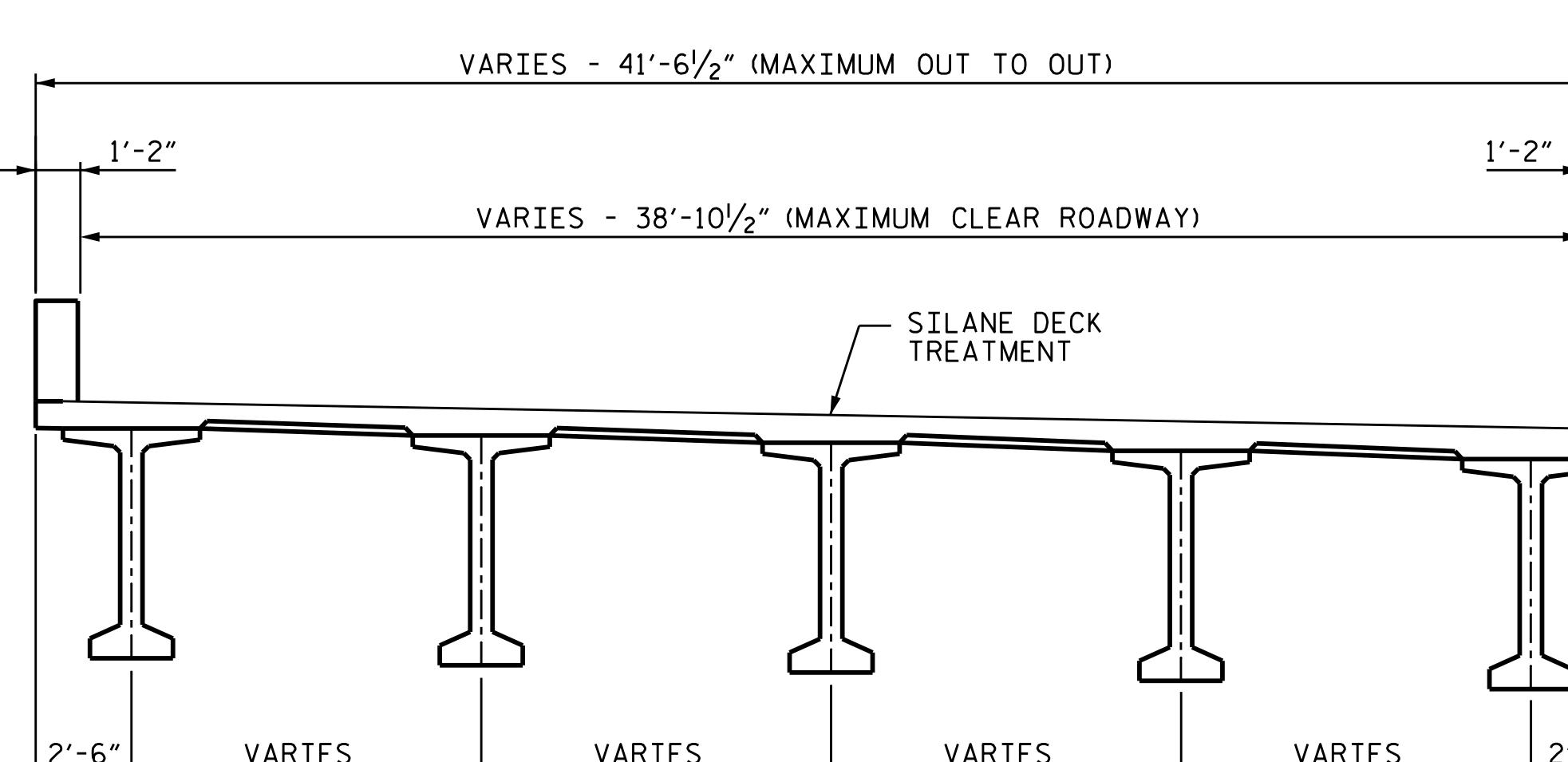
TYPICAL SECTION

INTERMEDIATE (NORTHBOUND)
(SPAN 127)



TYPICAL SECTION

PROPOSED (SOUTHBOUND)
(SPAN 121)



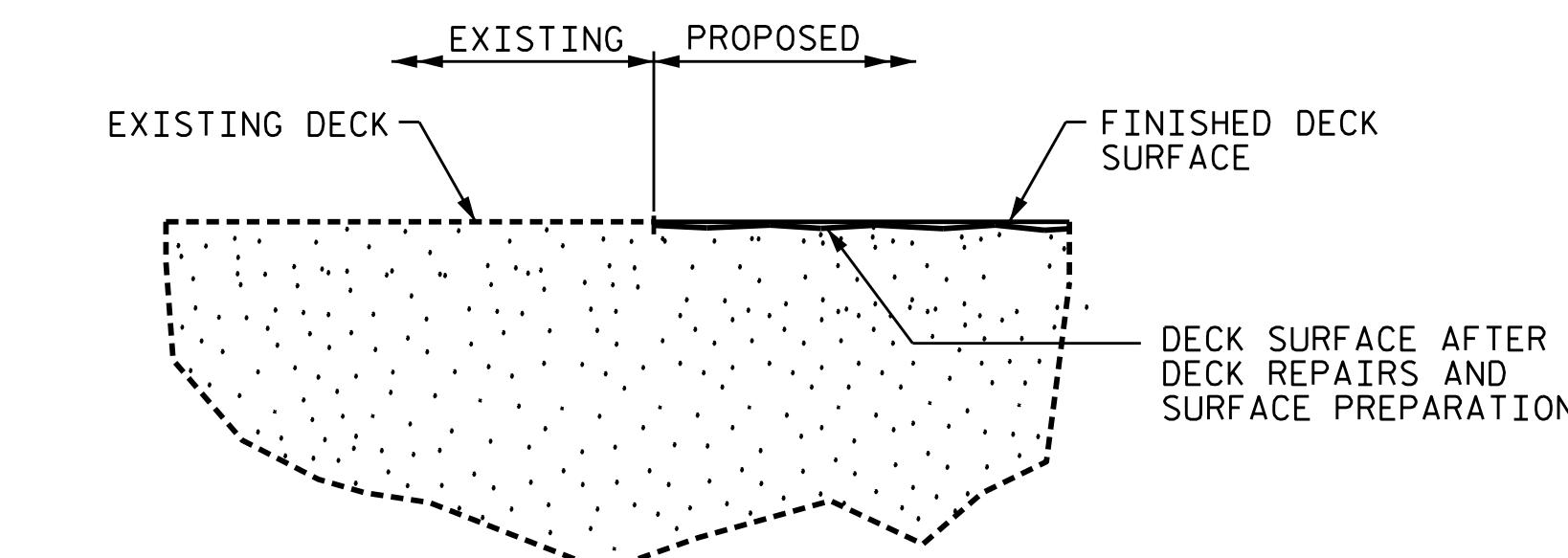
TYPICAL SECTION

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

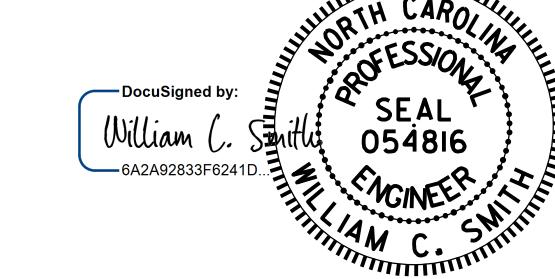
PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 9 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



TYPICAL SECTION
DETAILS

SOUTHBOUND (SPAN 121) NORTHBOUND (SPAN 127)

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

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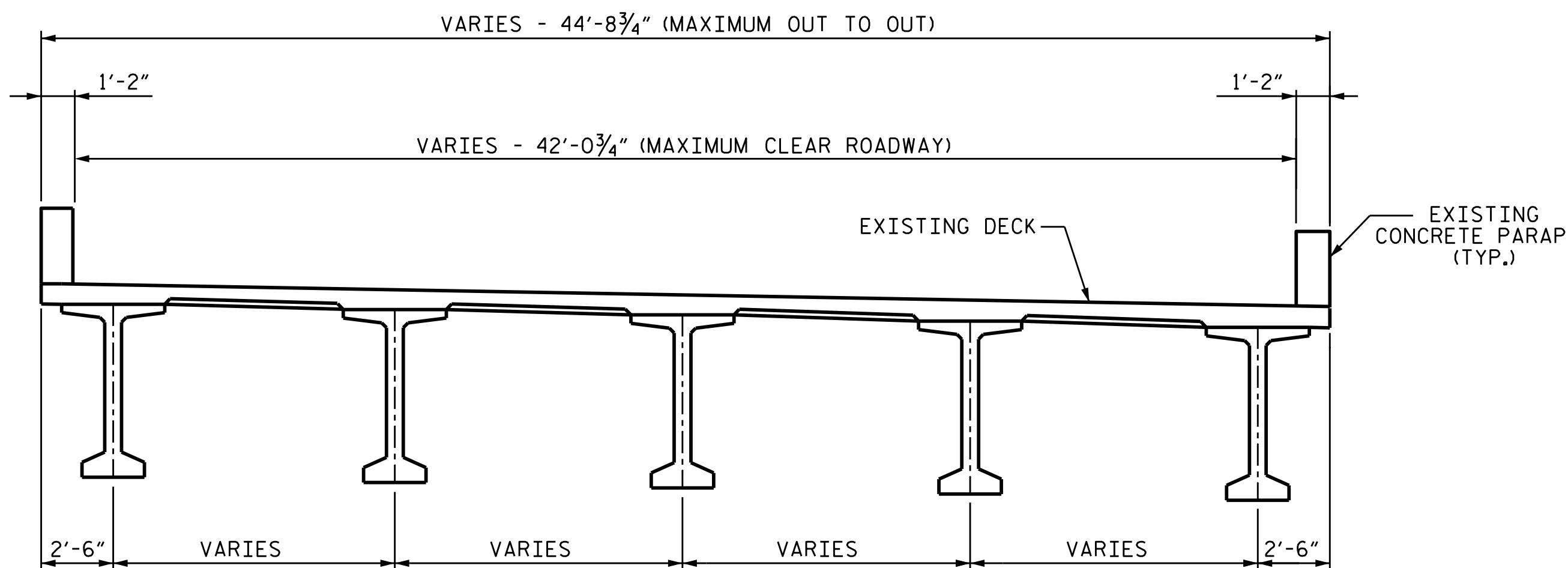
REVISIONS		SHEET NO.	
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S-23
TOTAL SHEETS 217

NOTES

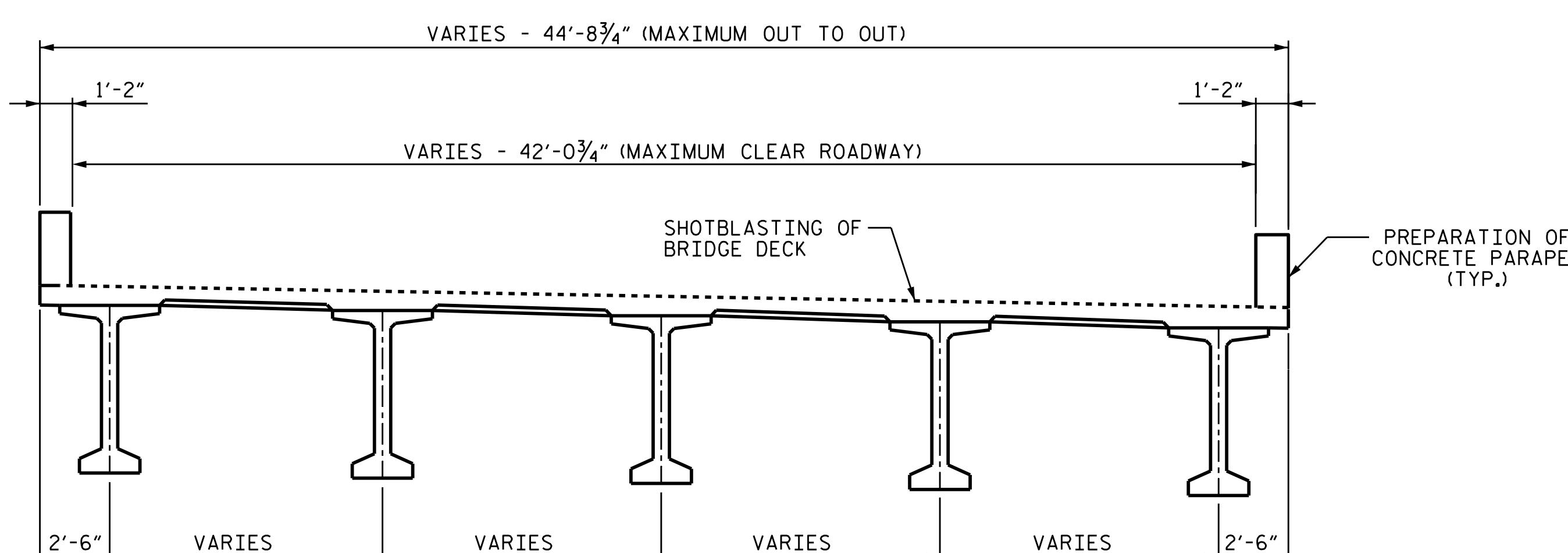
GIRDERS ARE 72" BULB TEES.

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



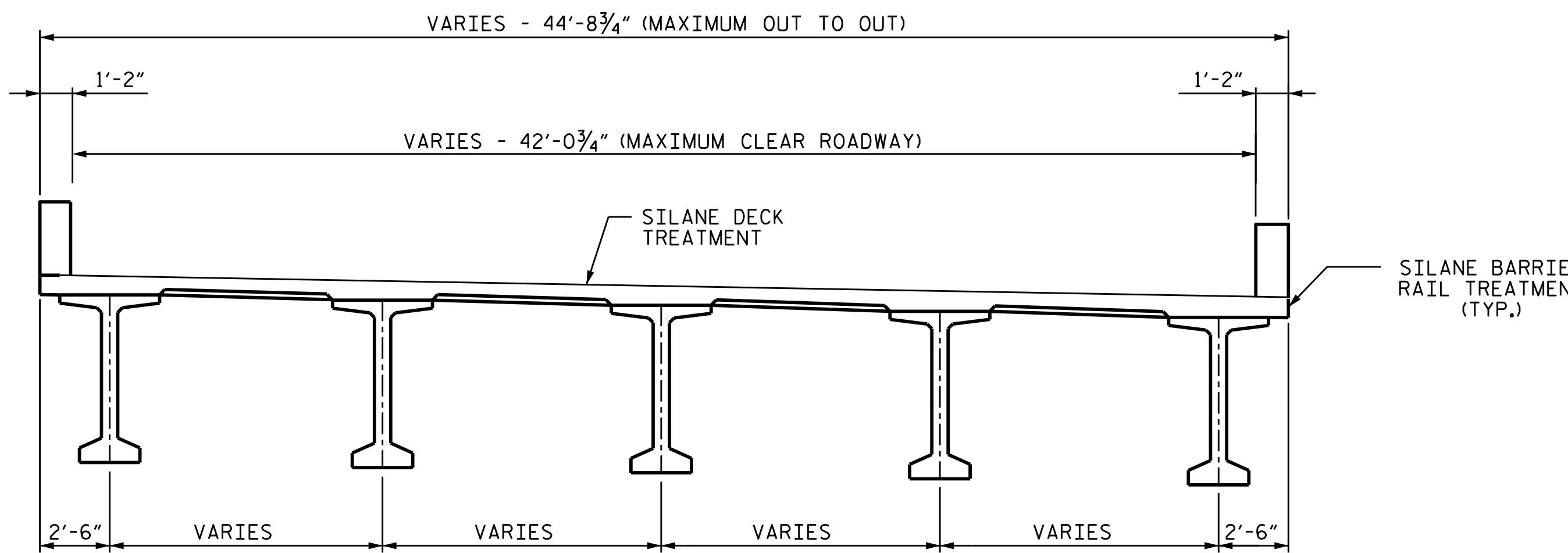
TYPICAL SECTION

EXISTING (SOUTHBOUND)



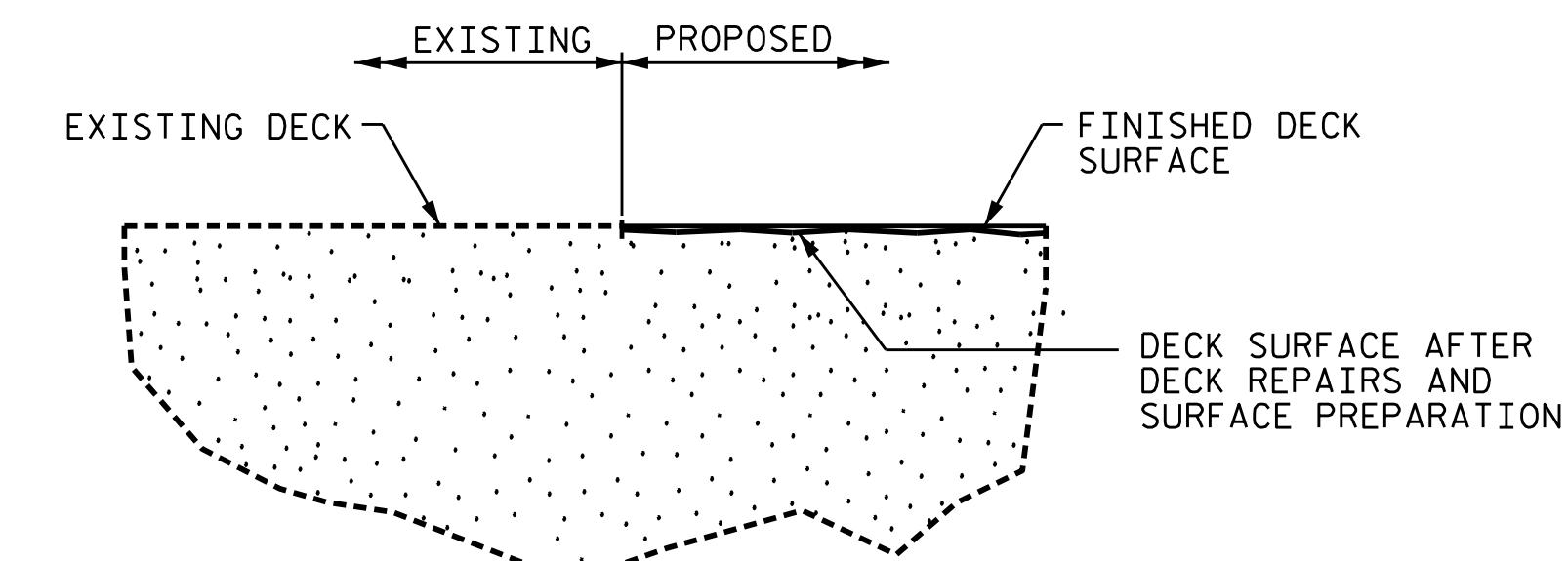
TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)



TYPICAL SECTION

PROPOSED (SOUTHBOUND)

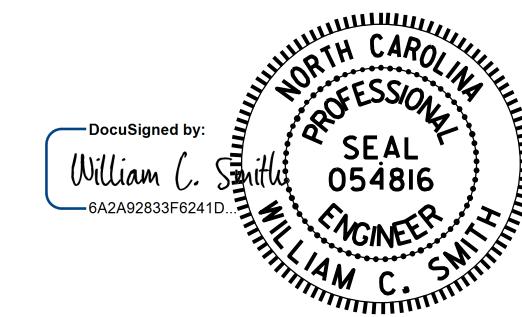


DETAIL FOR
SILANE DECK TREATMENT

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

SHEET 10 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



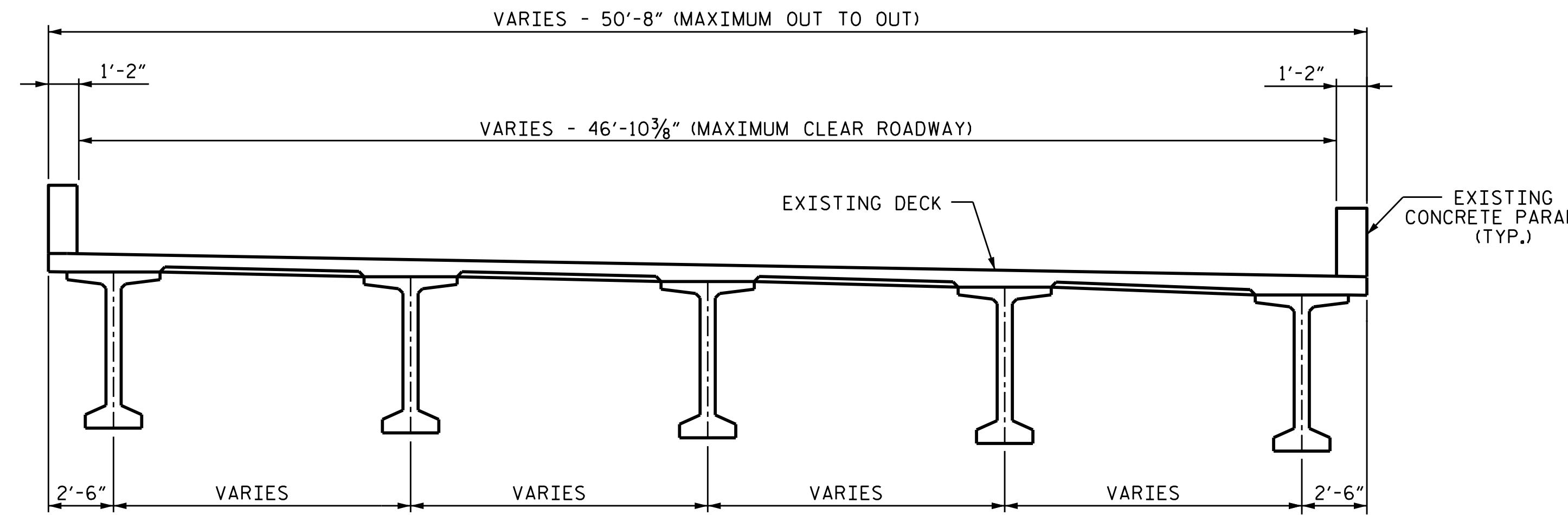
TYPICAL SECTION DETAILS
SOUTHBOUND (SPAN 122)

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.	
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TOTAL SHEETS 217



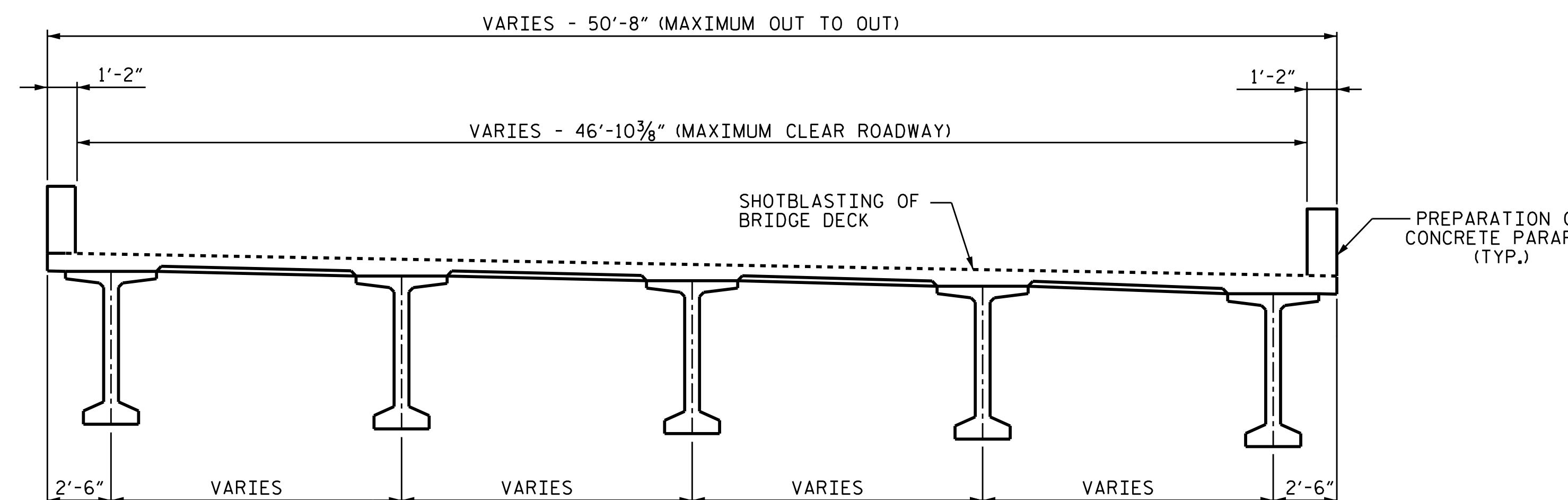
NOTES

GIRDERS ARE 72" BULB TEES.

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

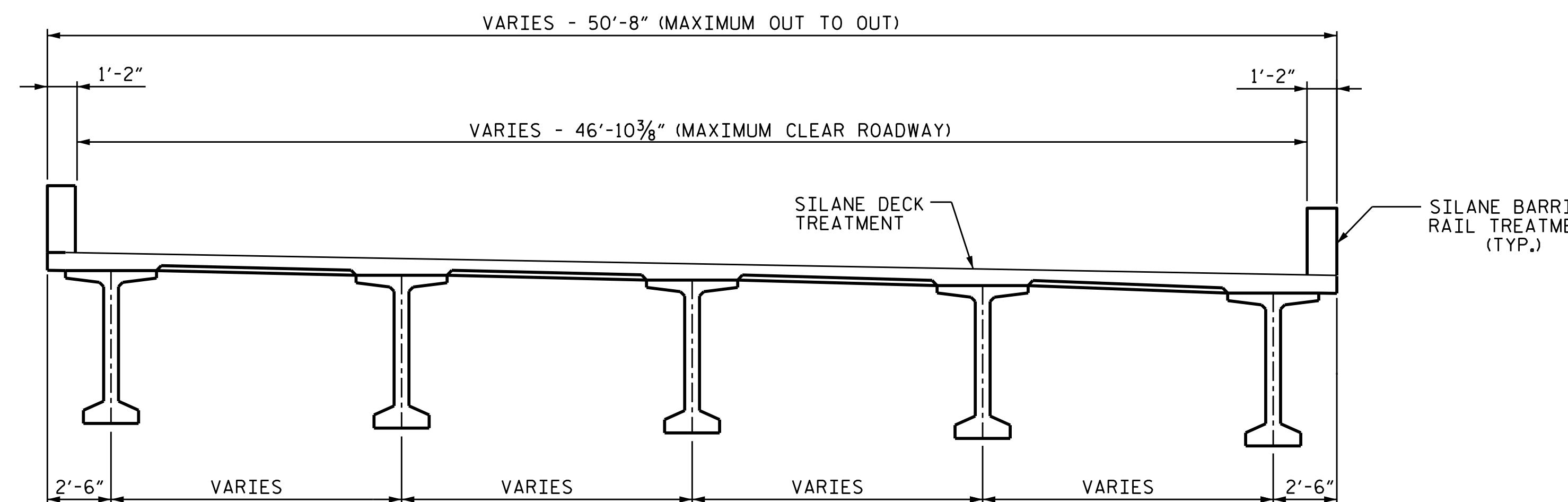
TYPICAL SECTION

EXISTING (SOUTHBOUND)



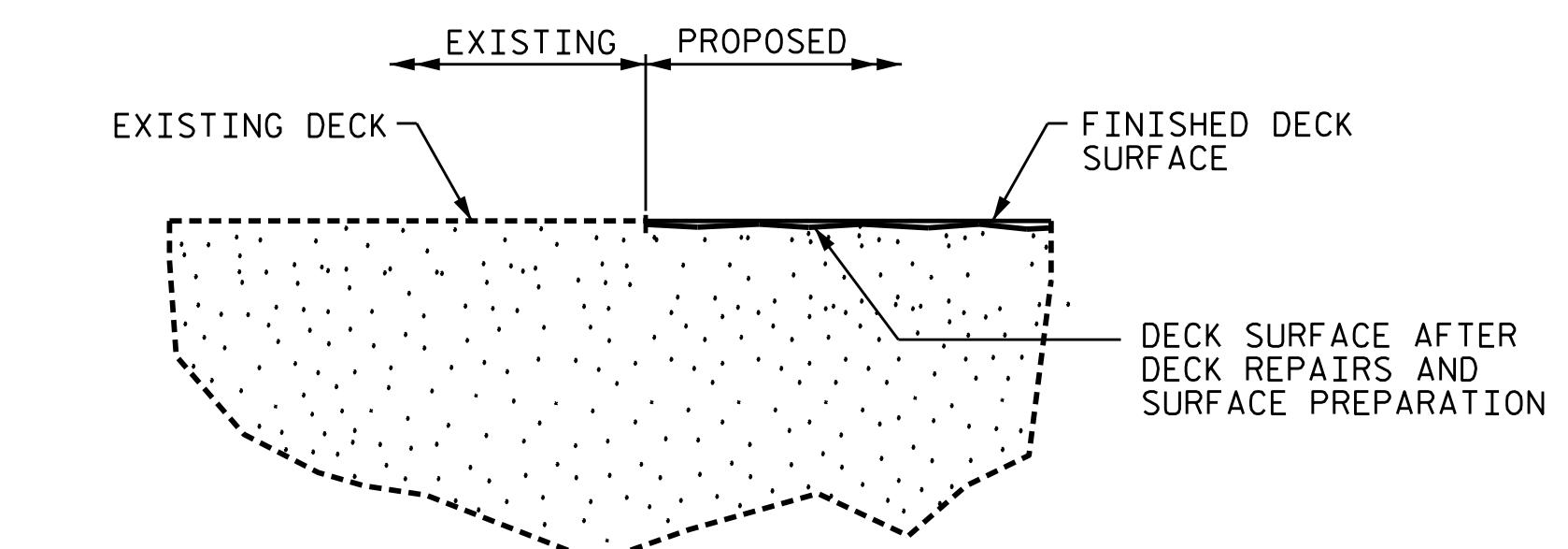
TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)



TYPICAL SECTION

PROPOSED (SOUTHBOUND)



DETAIL FOR SILANE DECK TREATMENT

PROJECT NO. 15BPR.137

BEAUFORT

COUNTY

BRIDGE NO. 060353

SHEET 11 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

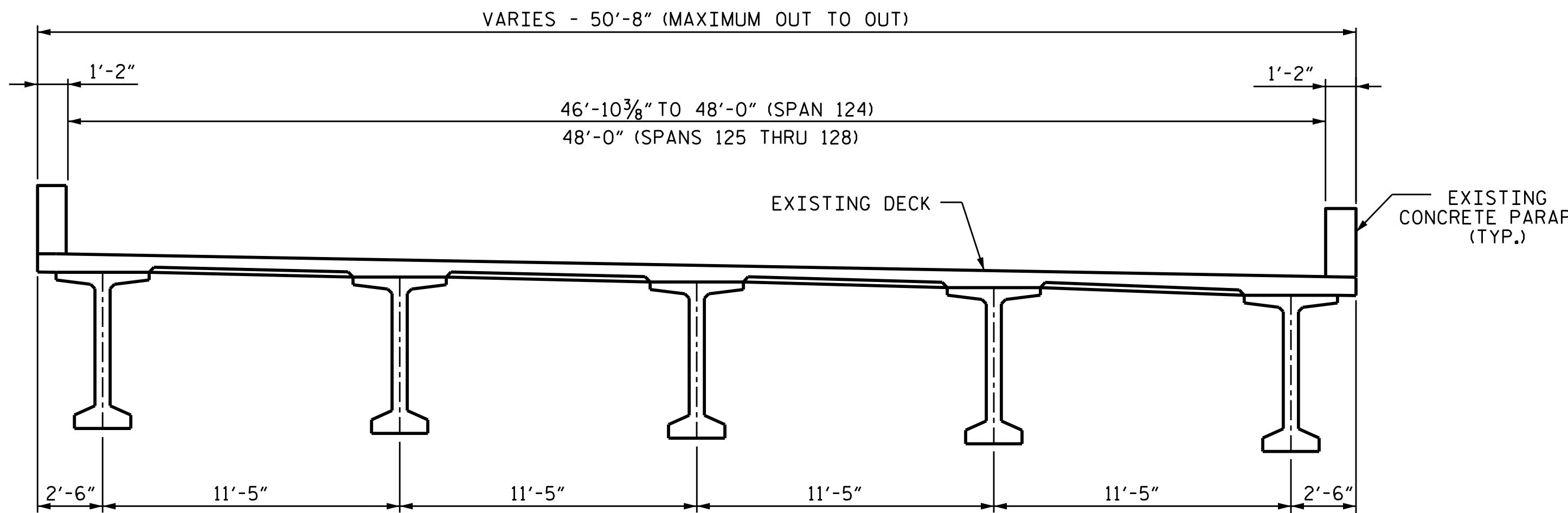


TYPICAL SECTION DETAILS SOUTHBOUND (SPAN 123)

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.	
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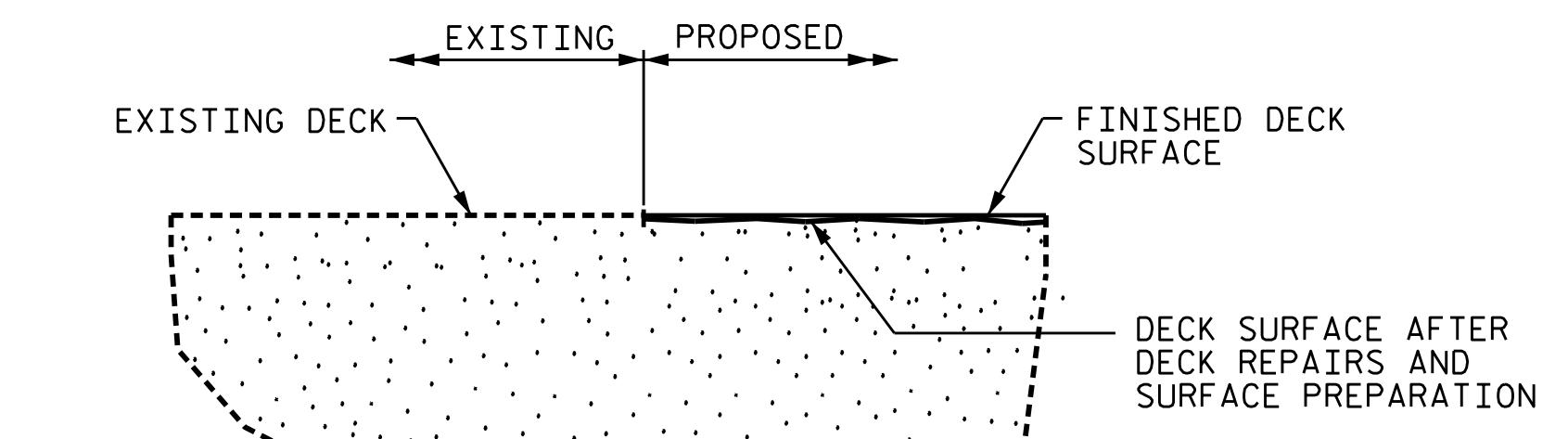
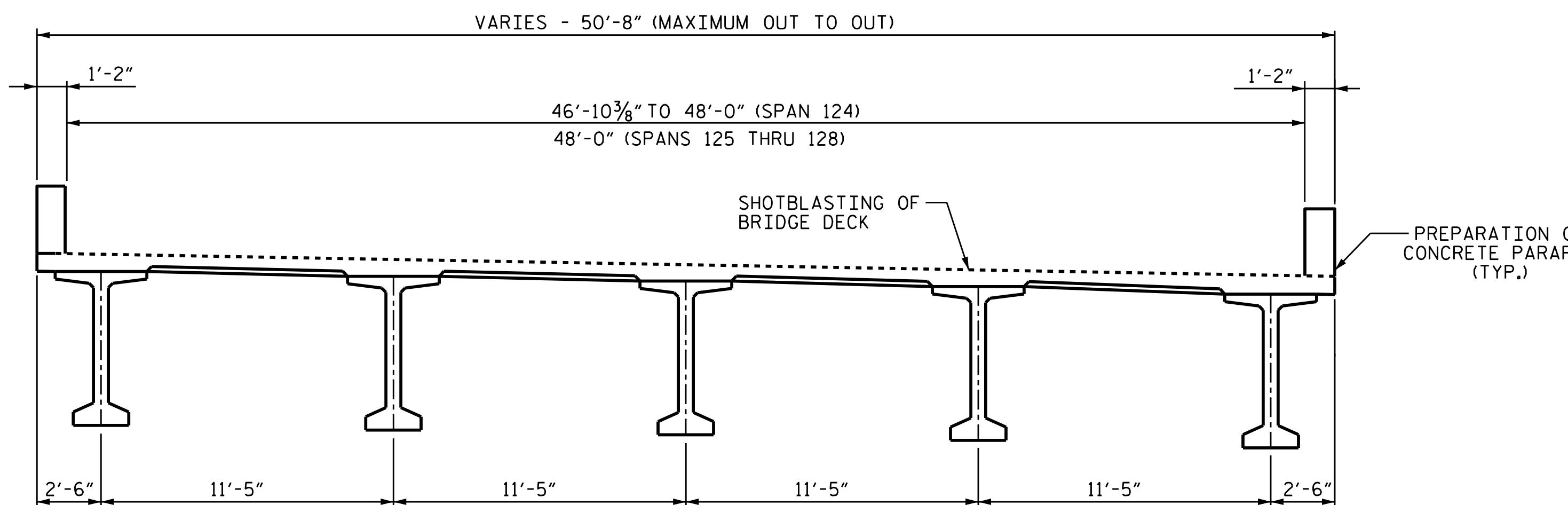
NOTES

GIRDERS ARE 72" BULB TEES.

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

TYPICAL SECTION

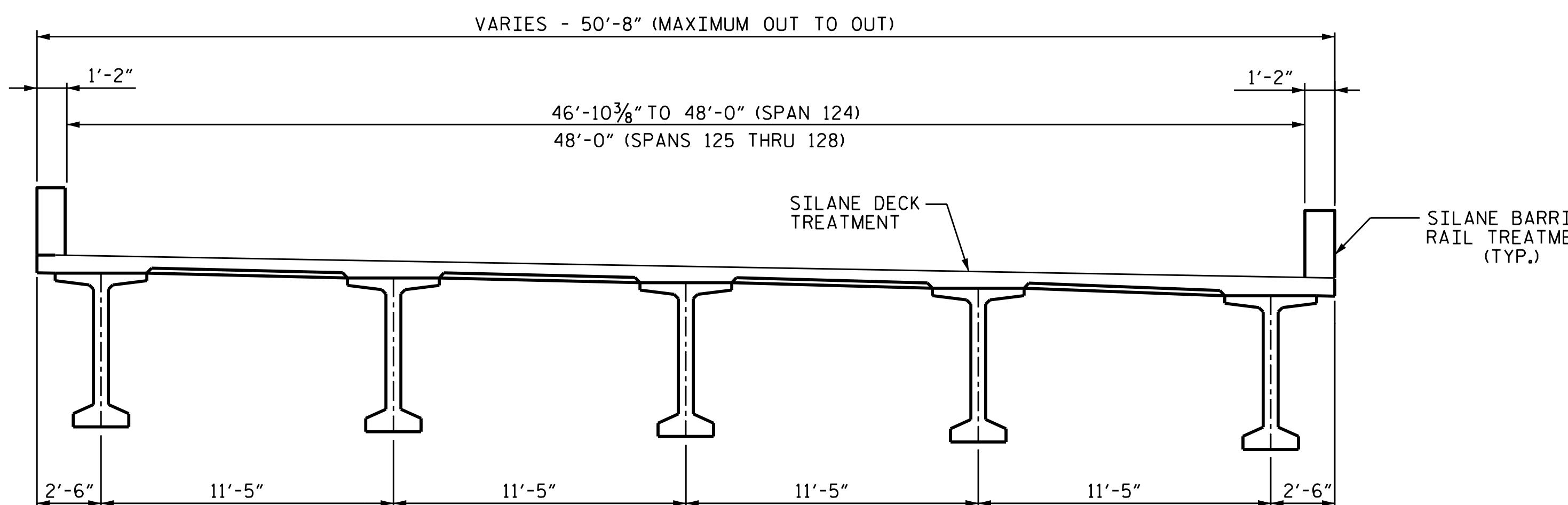
EXISTING (SOUTHBOUND)
(SPANS 124-128)



DETAIL FOR SILANE DECK TREATMENT

TYPICAL SECTION

INTERMEDIATE (SOUTHBOUND)
(SPANS 124-128)



TYPICAL SECTION

PROPOSED (SOUTHBOUND)
(SPANS 124-128)

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

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

SHEET 12 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

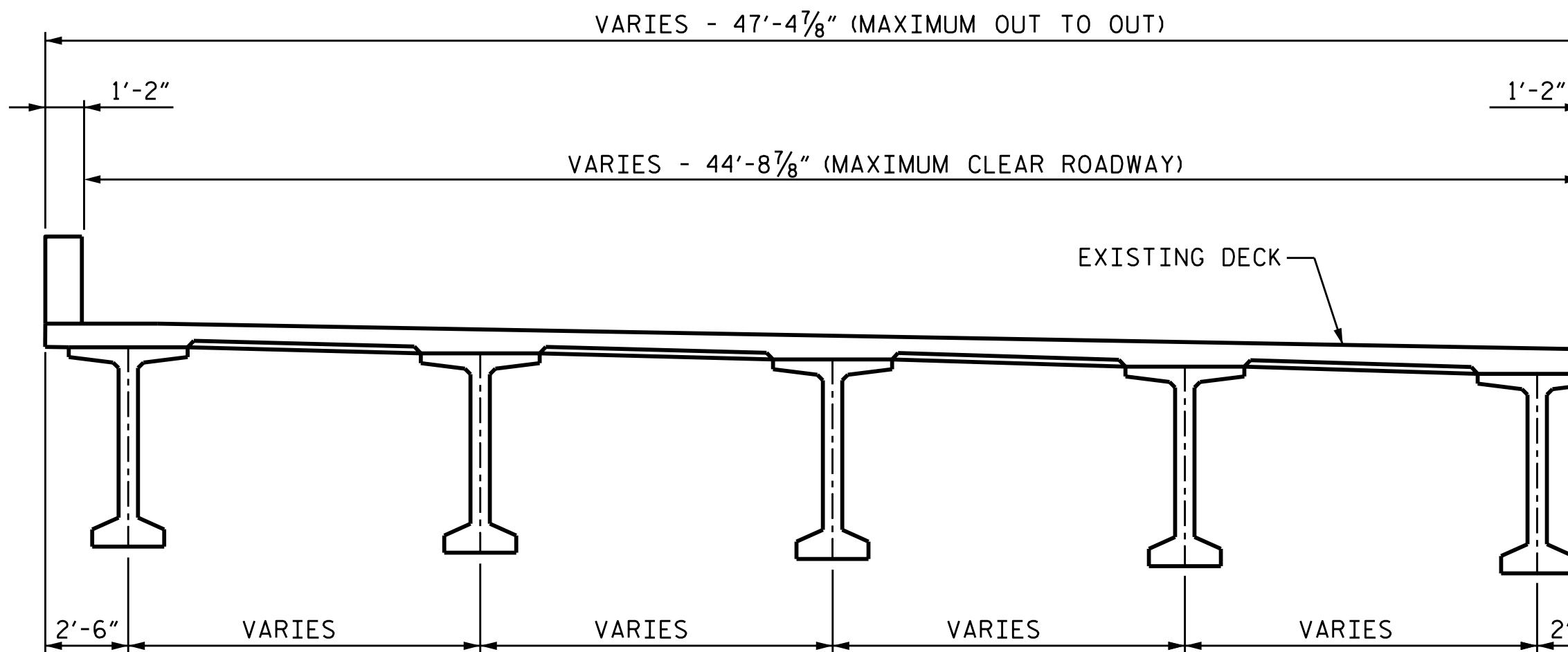
TYPICAL SECTION
DETAILS
SOUTHBOUND
(SPAN 124-128)



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REVISIONS					SHEET NO.	
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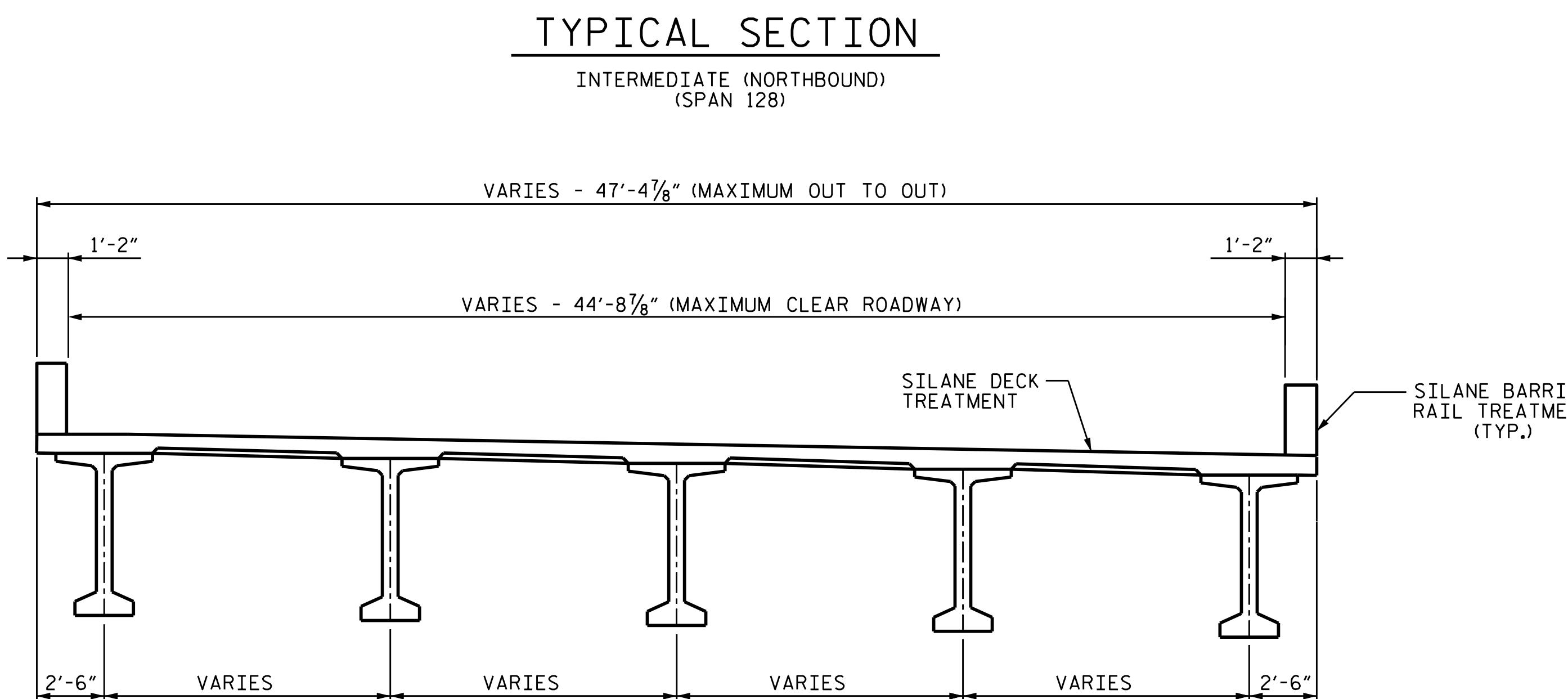
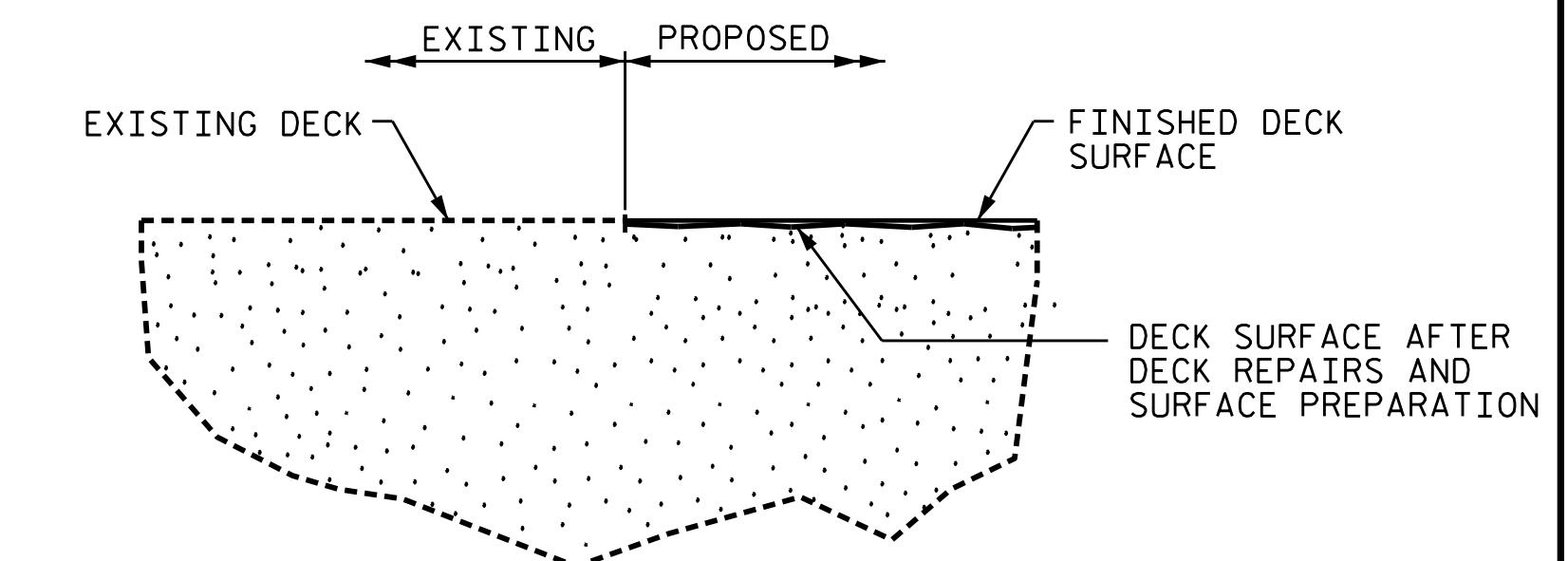
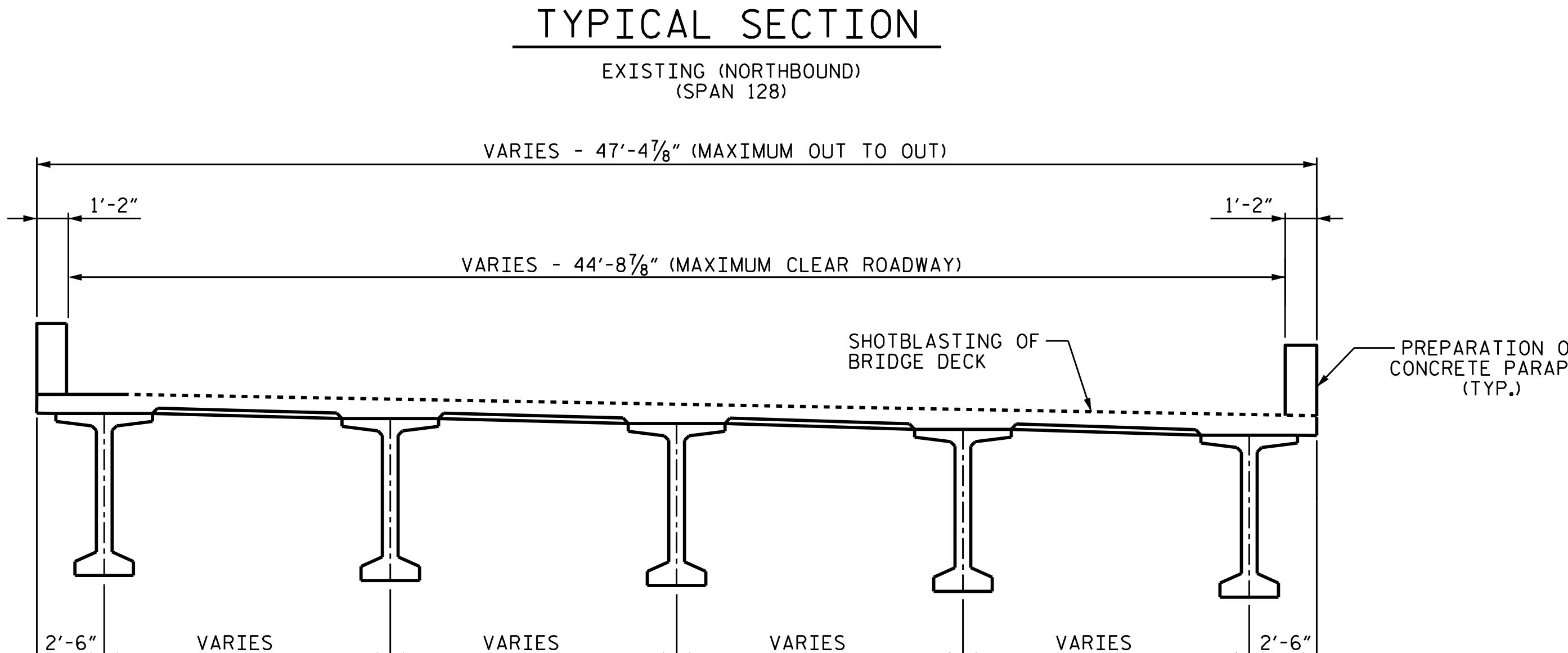
TOTAL SHEETS
217



NOTES

GIRDERS ARE 72" BULB TEES.

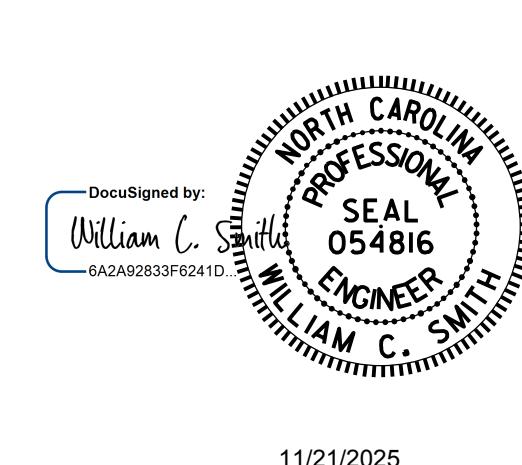
FOR DETAILS OF SILANE BARRIER RAIL AND GIRDER TREATMENT, SEE SHEET S-213.



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SHEET 13 OF 13

STATE OF NORTH CAROLINA
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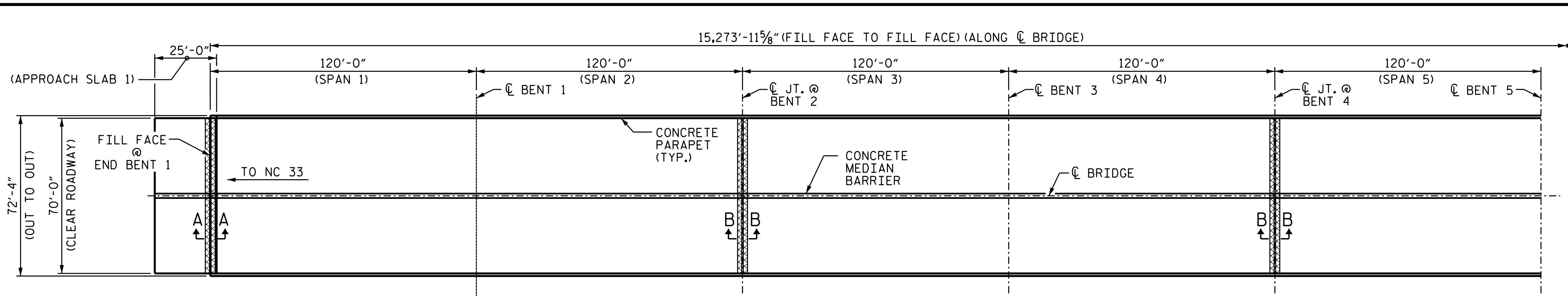
TYPICAL SECTION DETAILS
NORTHBOUND
(SPAN 128)

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

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TOTAL SHEETS
217



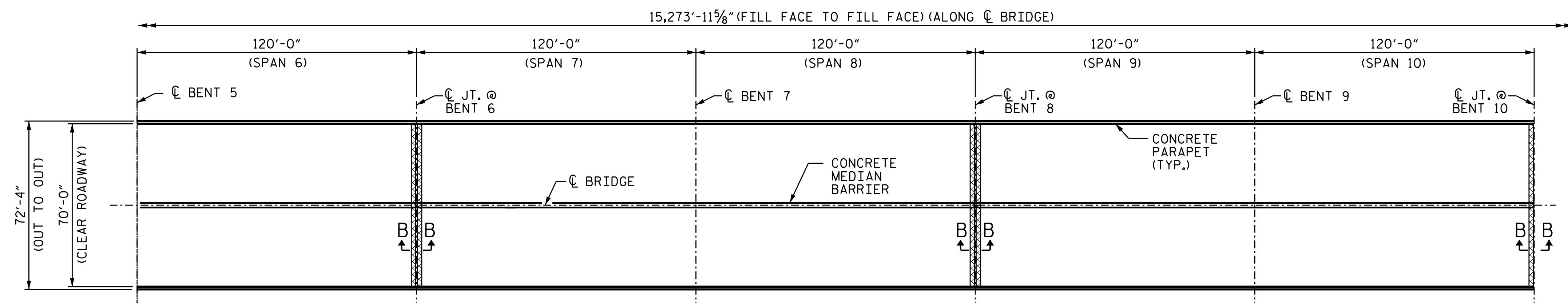
REPAIR QUANTITY TABLE

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.	

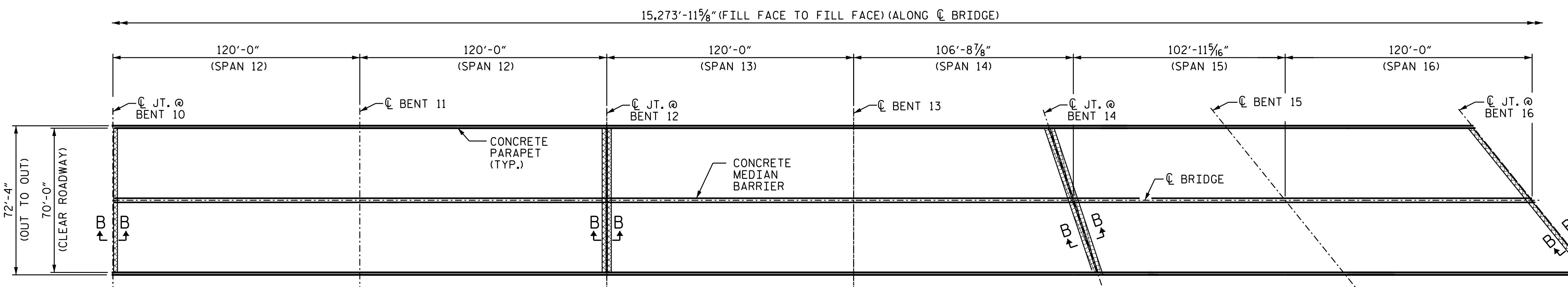
NOTES

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

PLAN



PLAN



SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT

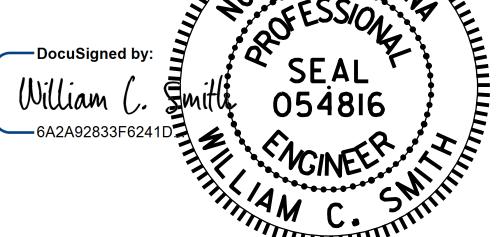
BRIDGE JOINT DEMOLITION

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



11/21/2025

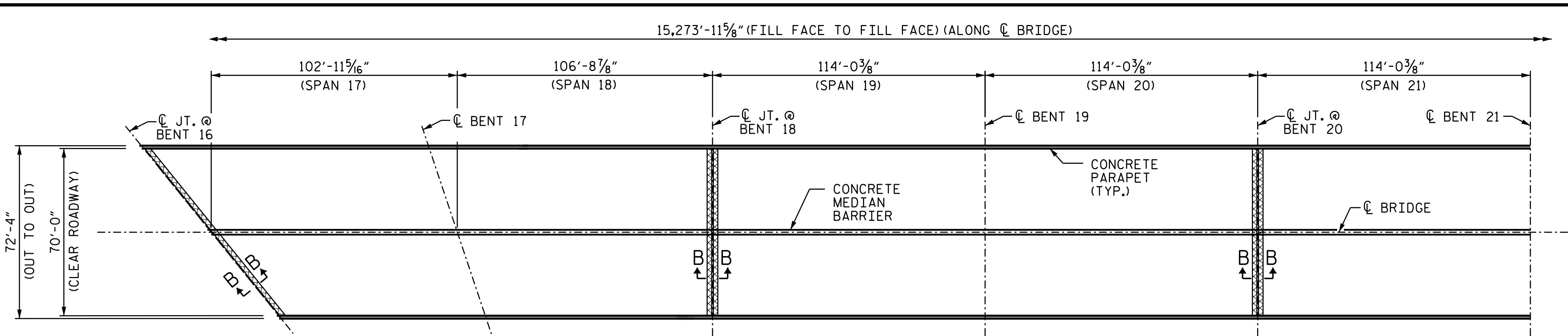
PLAN

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

DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

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S-28
TOTAL SHEETS 217



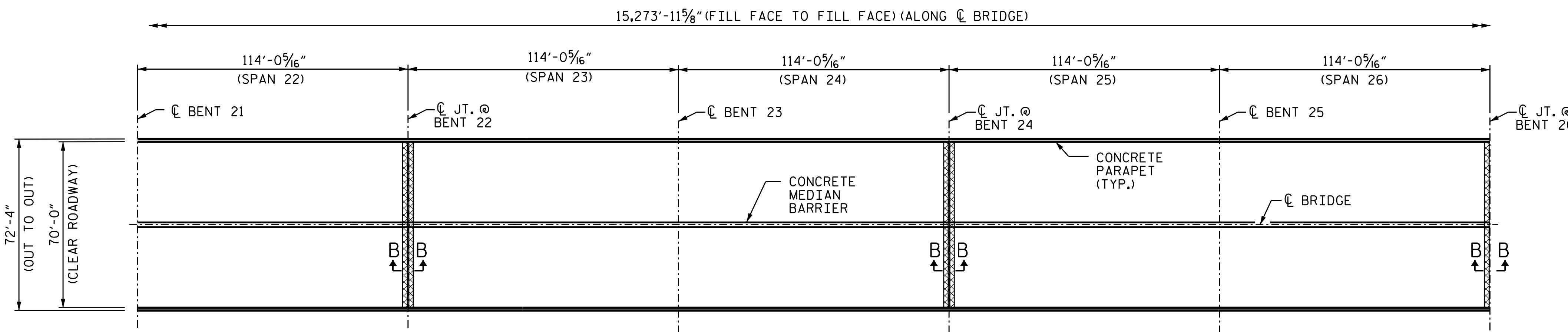
REPAIR QUANTITY TABLE

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.

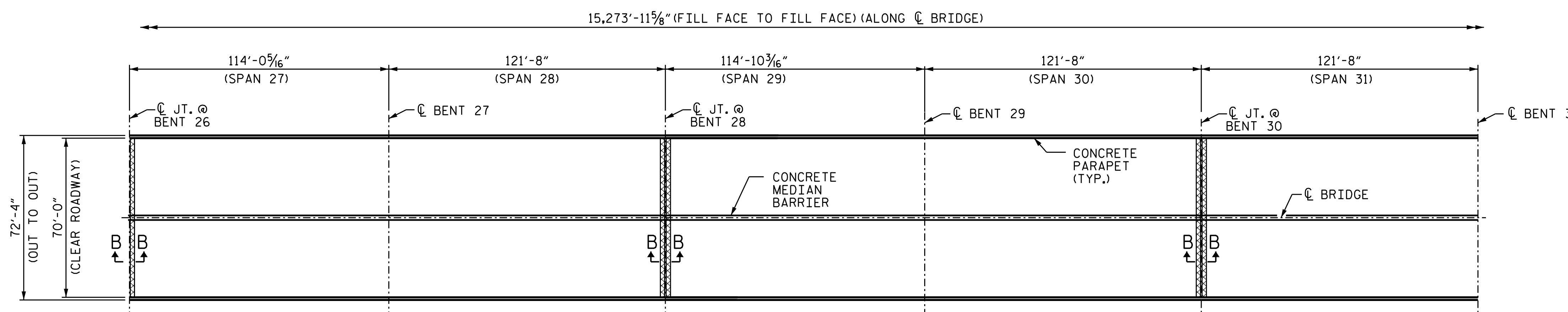
PLAN



SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT

BRIDGE JOINT DEMOLITION

PLAN

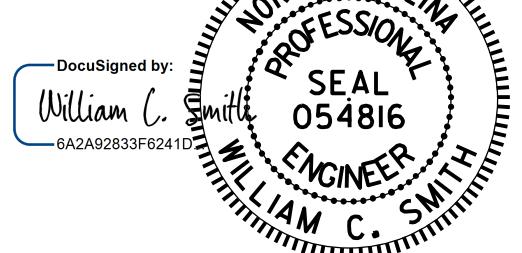


PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 2 OF 9

STATE OF NORTH CAROLINA
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RALEIGH

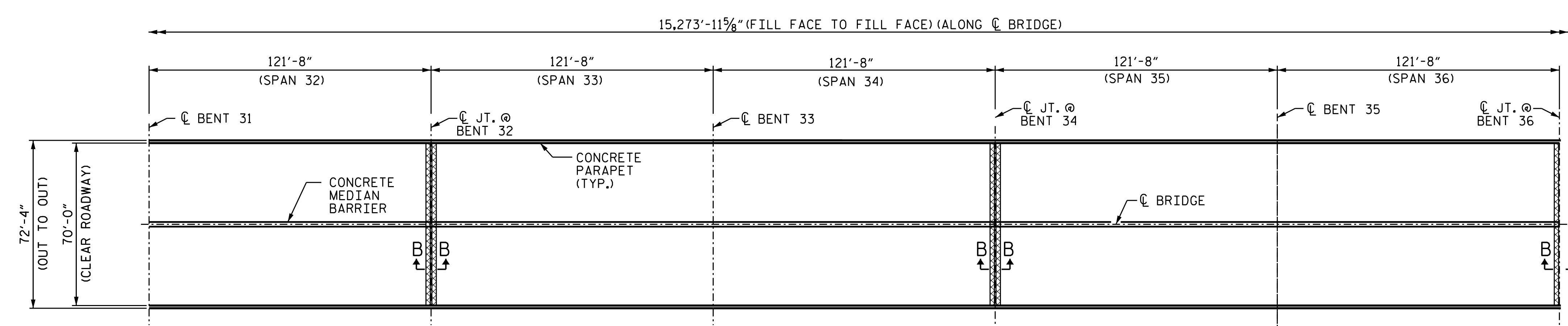
DECK SURFACE REPAIR SPANS 17 THRU 31



REVISIONS					SHEET NO.	
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DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

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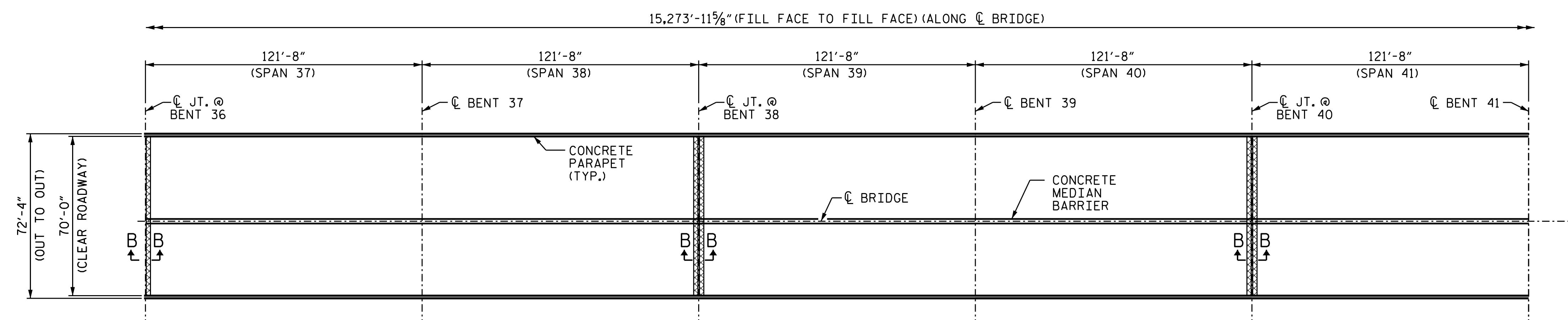
REPAIR QUANTITY TABLE

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

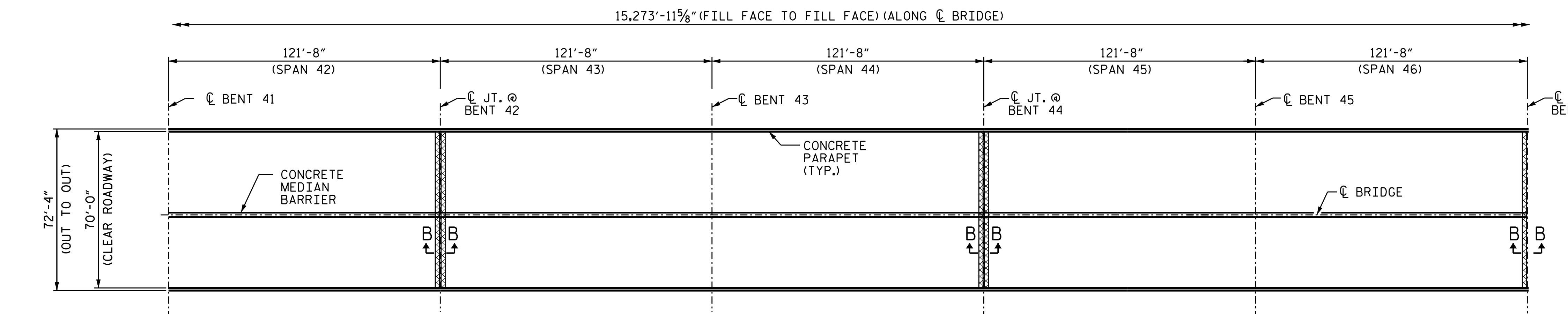
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

PLAN



SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT
 BRIDGE JOINT DEMOLITION

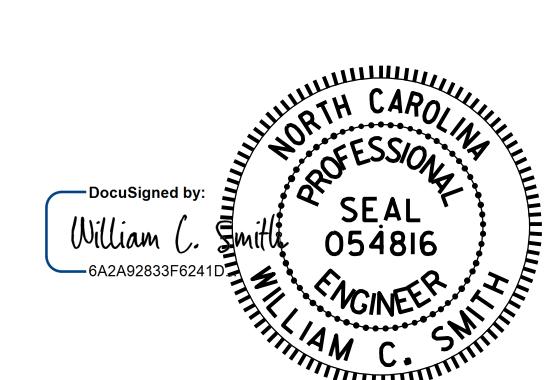
PLAN



PROJECT NO. 15BPR.137
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RALEIGH



DECK SURFACE REPAIR SPANS 32 THRU 46

REVISIONS					SHEET NO.	
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FINAL UNLESS ALL
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DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

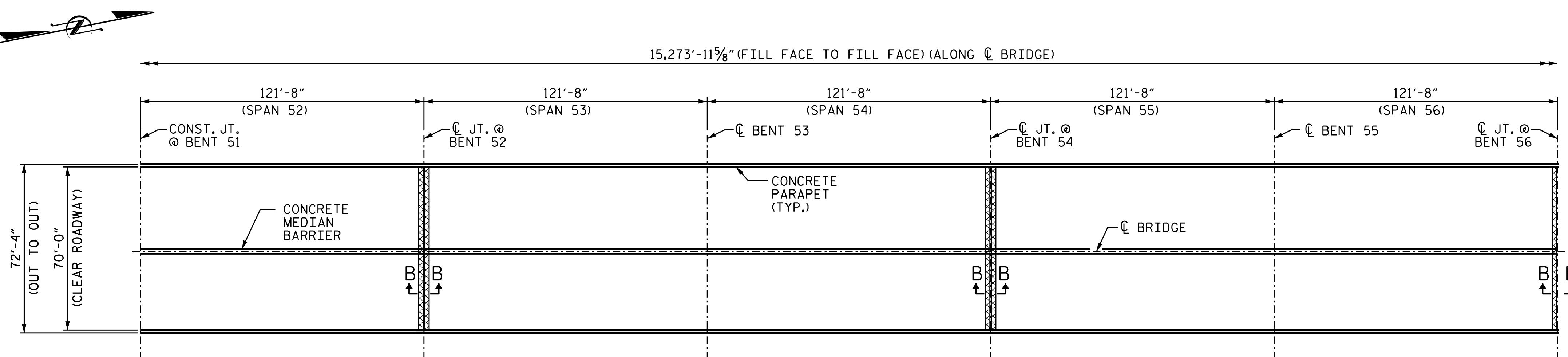
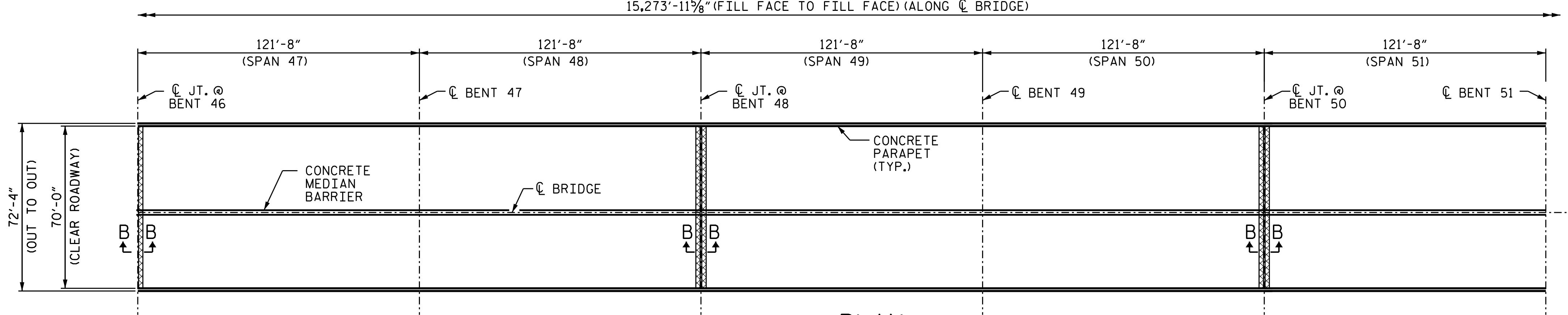
11/21/2025

REPAIR QUANTITY TABLE

DECK SURFACE	REPAIR SPANS	47 THRU 61
SHOTBLASTING BRIDGE DECK	ESTIMATE	ACTUAL
13,788.9 SQ. YDS.		
SILANE DECK TREATMENT	13,788.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	510.0 SQ. FT.	

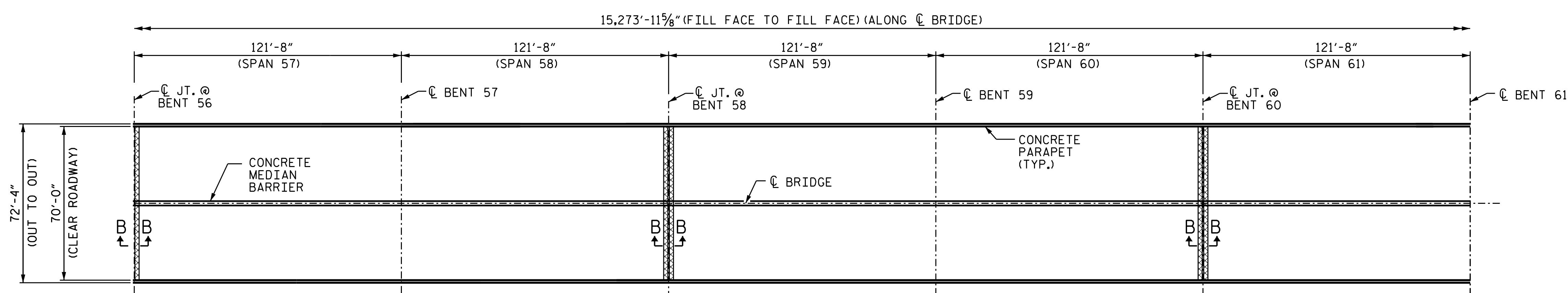
NOTES

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



SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT

BRIDGE JOINT DEMOLITION



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

SHEET 4 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK SURFACE REPAIR
SPANS 47 THRU 61

REVISIONS						SHEET NO.
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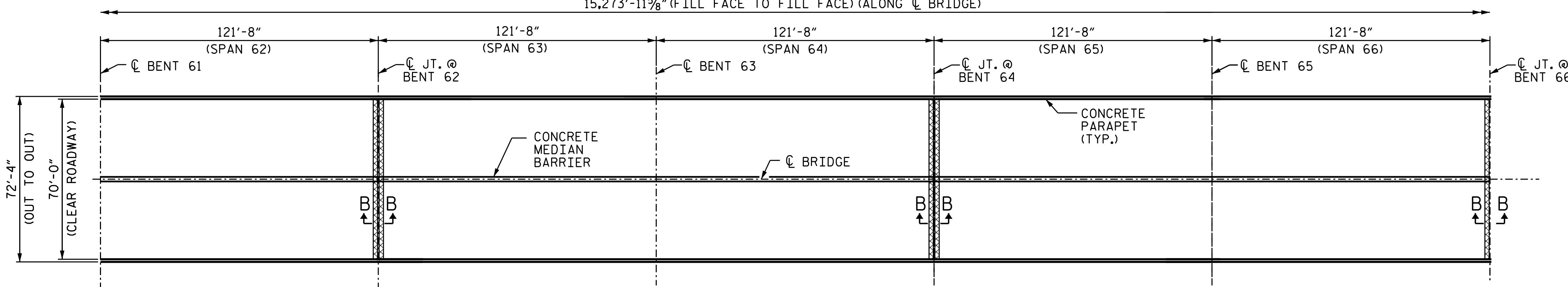
DRAWN BY : S. T. SANDOR DATE : 6/20/24
CHECKED BY : W. C. SMITH DATE : 6/25/24

REPAIR QUANTITY TABLE

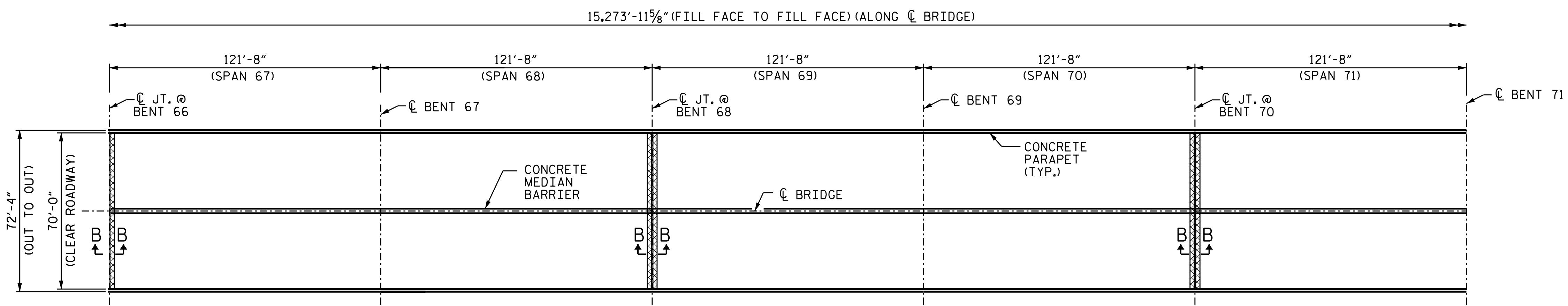
DECK SURFACE	REPAIR SPANS	62 THRU 76
	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,788.9 SQ. YDS.	
SILANE DECK TREATMENT	13,788.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	510.0 SQ. FT.	

NOTES

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



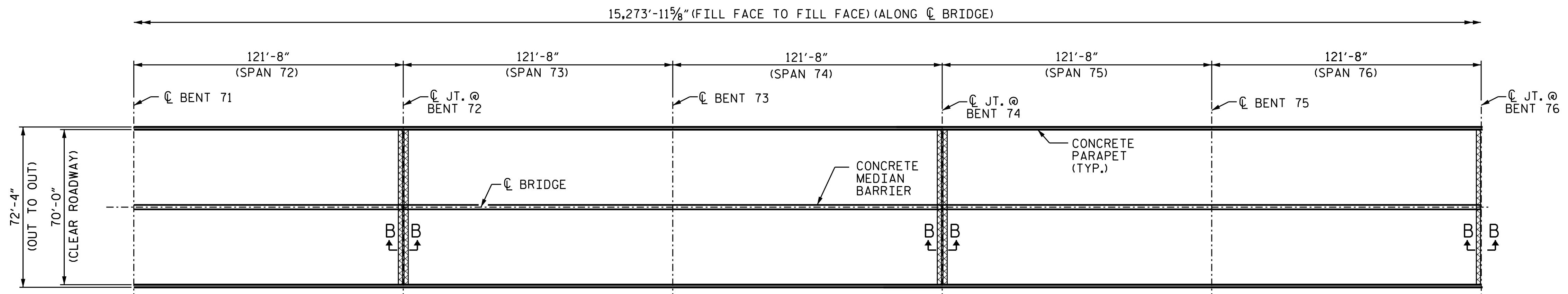
PLAN



SHOTBLASTING BRIDGE DECK AND
SILANE DECK TREATMENT

BRIDGE JOINT DEMOLITION

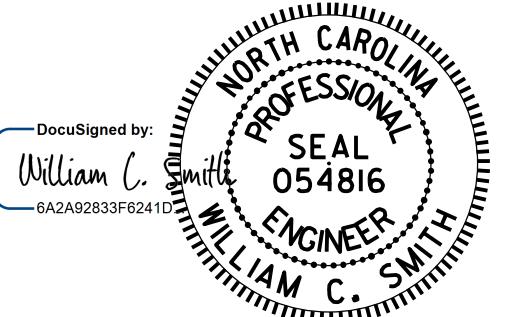
PLAN



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

SHEET 5 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK SURFACE REPAIR
SPANS 62 THRU 76

DOCUMENT NOT CONSIDERED
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REVISIONS					SHEET NO.
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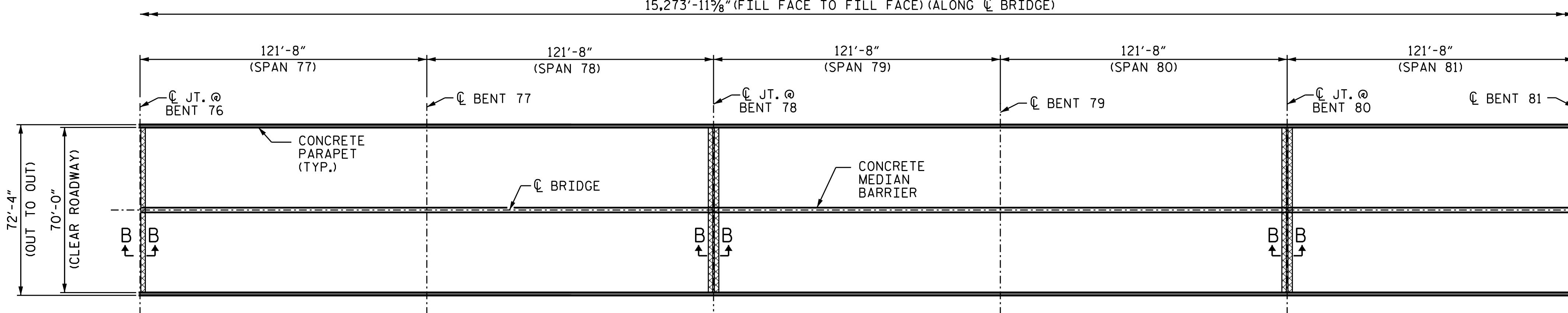
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CHECKED BY : W. C. SMITH DATE : 6/25/34

REPAIR QUANTITY TABLE

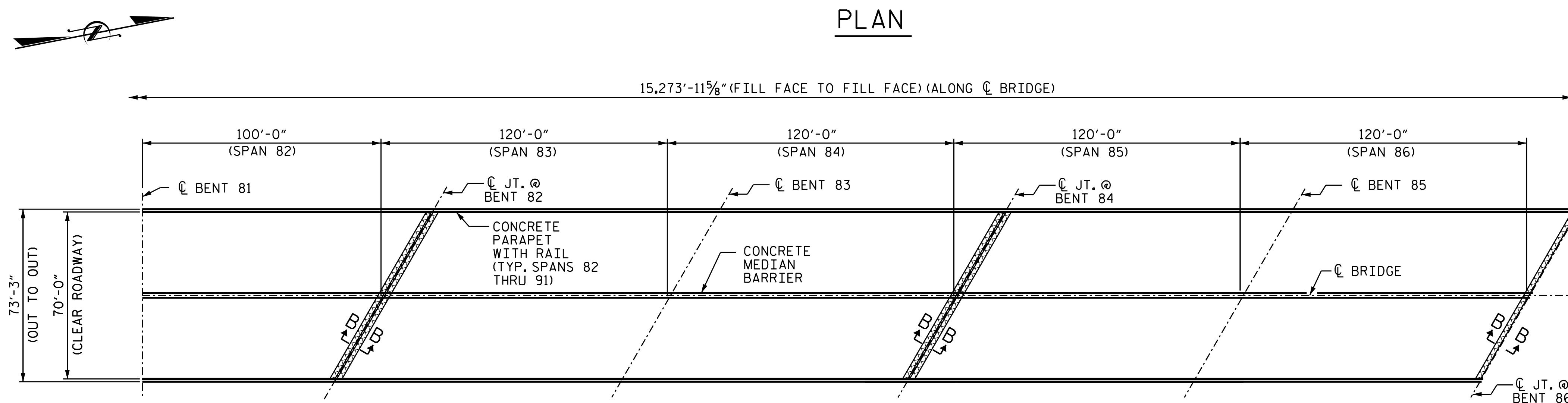
DECK SURFACE	REPAIR SPANS	77 THRU 91
SHOTBLASTING BRIDGE DECK	ESTIMATE	ACTUAL
SILANE DECK TREATMENT	13,511.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	13,511.9 SQ. YDS.	562.6 SQ. FT.

NOTES

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



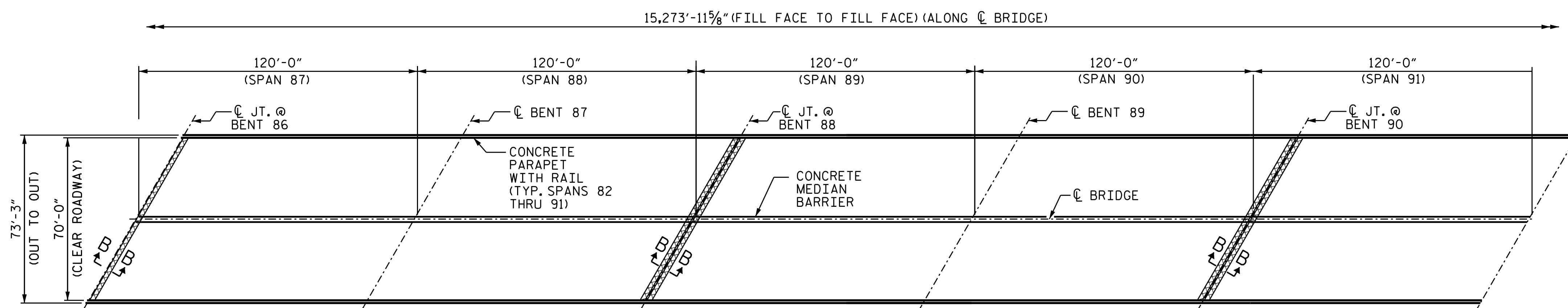
PLAN



SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT

BRIDGE JOINT DEMOLITION

PLAN



PLAN

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

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

DOCUMENT NOT CONSIDERED
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REVISIONS					SHEET NO.
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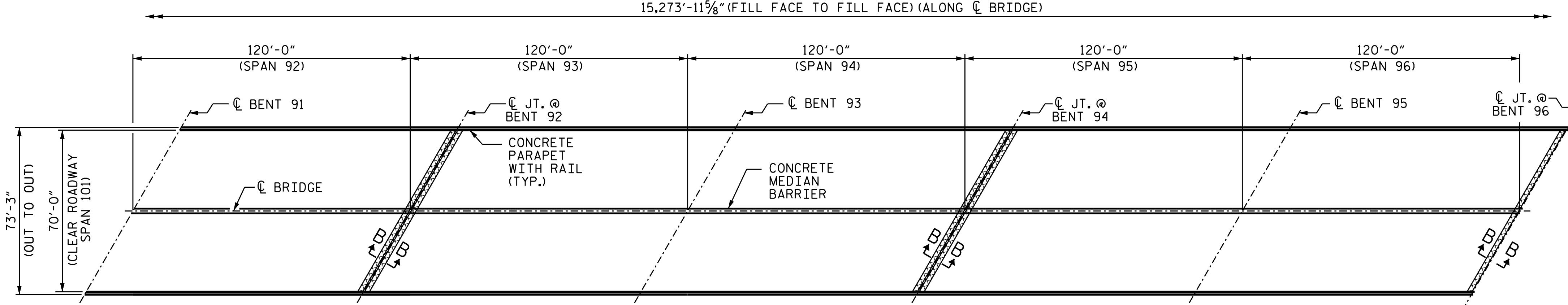
TOTAL SHEETS
217

REPAIR QUANTITY TABLE

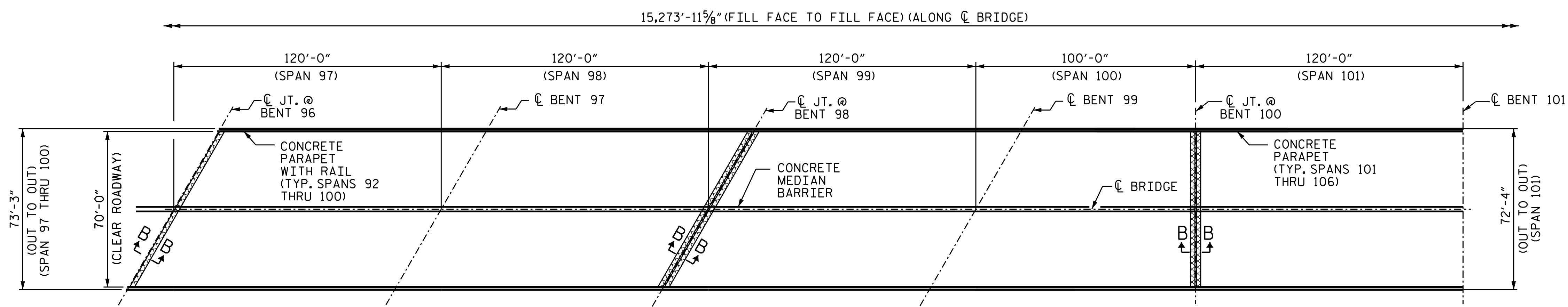
DECK SURFACE REPAIR SPANS 92 THRU 106	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	13,528.9 SQ. YDS.	
SILANE DECK TREATMENT	13,528.9 SQ. YDS.	
BRIDGE JOINT DEMOLITION	571.3 SQ. FT.	

NOTES

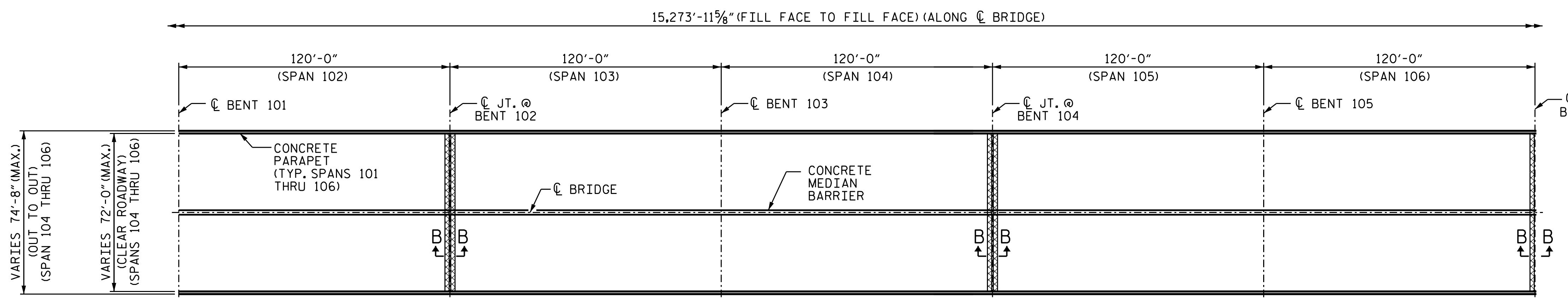
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.



PLAN



PLAN



PLAN

PROJECT NO. 15BPR.137
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 7 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK SURFACE REPAIR
SPANS 92 THRU 106

DRAWN BY : S. T. SANDOR DATE : 6/20/24
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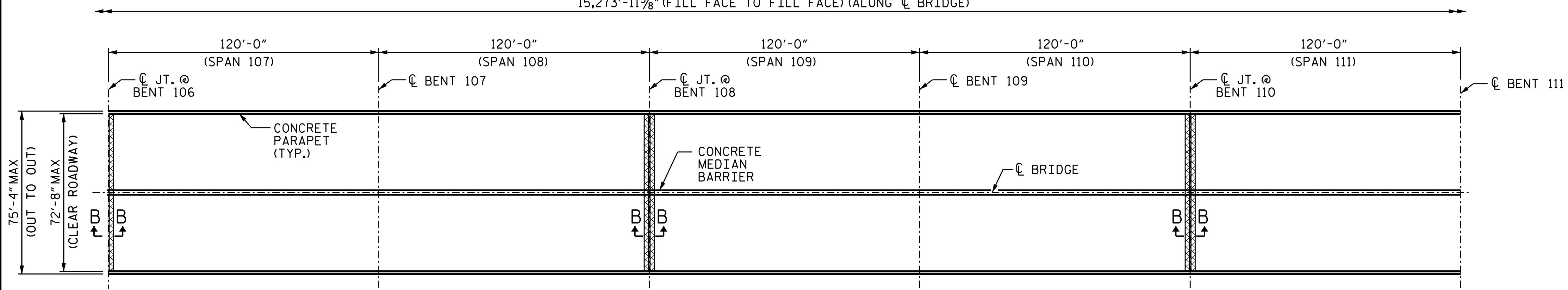
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TOTAL SHEETS 217

REPAIR QUANTITY TABLE

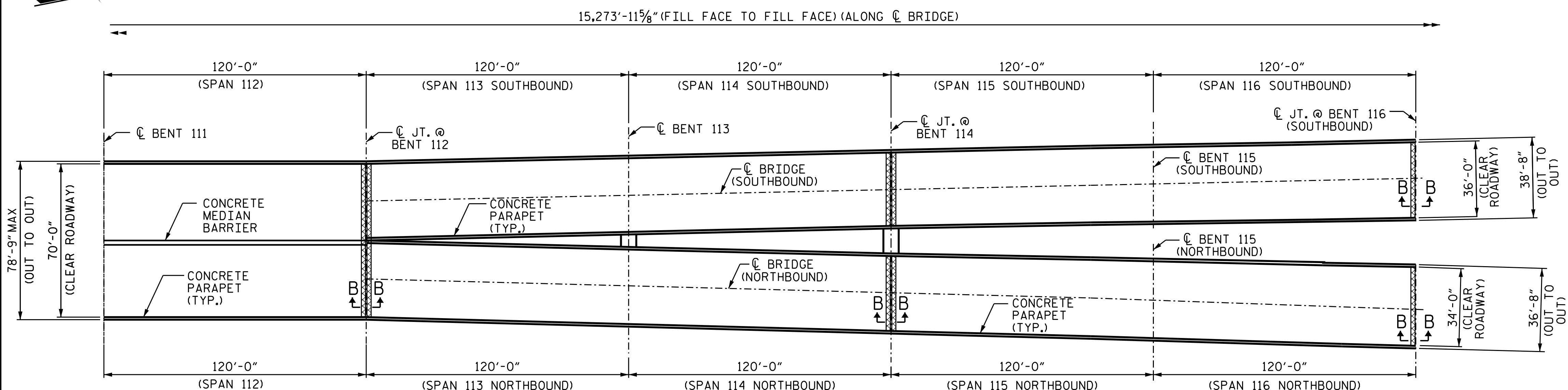
DECK SURFACE REPAIR SPANS 107 THRU 121	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	14,004.6 SQ. YDS.	
SILANE DECK TREATMENT	14,004.6 SQ. YDS.	
BRIDGE JOINT DEMOLITION	525.0 SQ. FT.	



NOTES

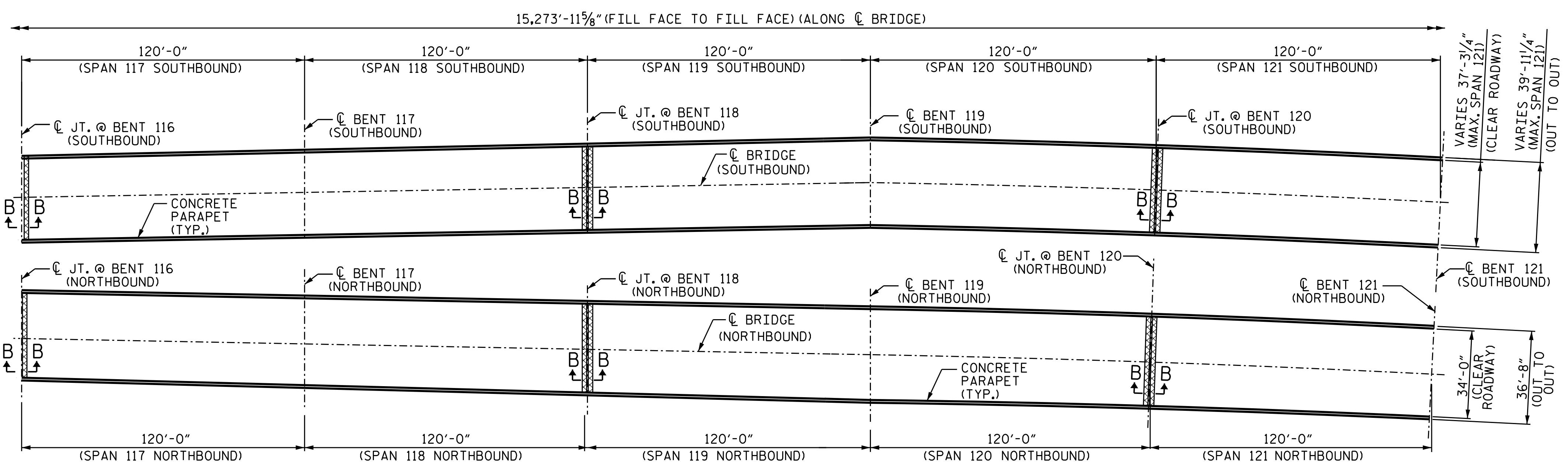
FOR SECTION B-B, SEE "JOINT REPAIR DETAILS" SHEET 1 OF 2.

PLAN



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

PLAN



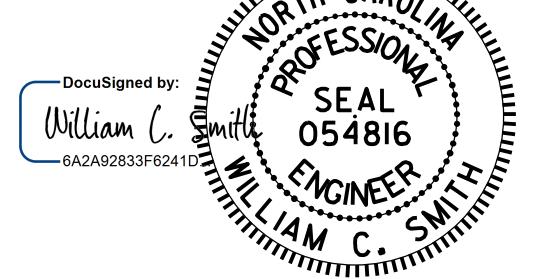
PROJECT NO. 15BPR.137
BEAUFORT COUNTY

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RALEIGH

DECK SURFACE REPAIR
SPANS 107 THRU 121



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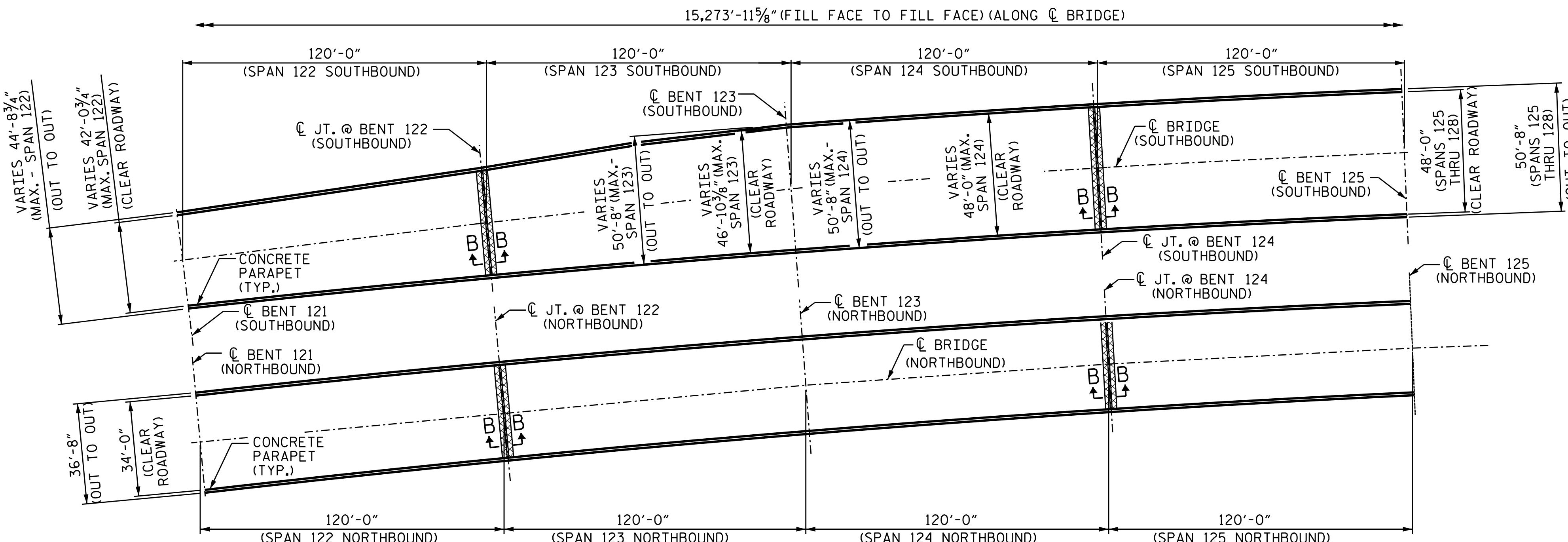
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REPAIR QUANTITY TABLE

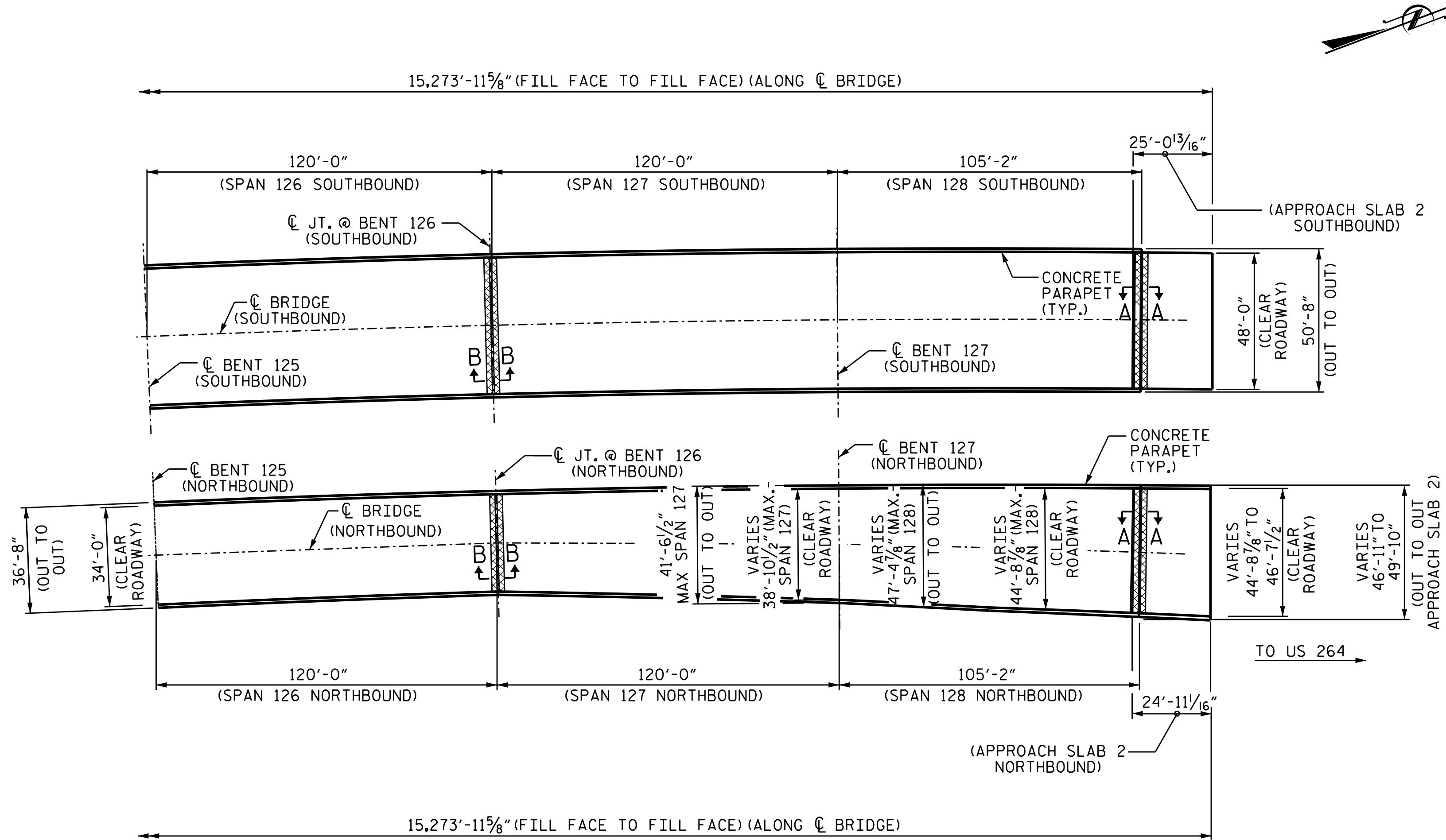
DECK SURFACE REPAIR SPANS 122 THRU 128	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	7475.5 SQ. YDS.	
SILANE DECK TREATMENT	7475.5 SQ. YDS.	
BRIDGE JOINT DEMOLITION	286.4 SQ. FT.	
APPROACH SLAB	ESTIMATE	ACTUAL
SHOTBLASTING BRIDGE DECK	251.0 SQ. YDS.	
SILANE DECK TREATMENT	251.0 SQ. YDS.	
BRIDGE JOINT DEMOLITION	46.4 SQ. FT.	

NOTES

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



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PLAN

DRAWN BY : S. T. SANDOR DATE : 6/20/24
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PROJECT NO. 15BPR.137
BEAUFORT COUNTY
BRIDGE NO. 060353

SHEET 9 OF 9

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK SURFACE REPAIR
SPANS 122 THRU 128
AND APPROACH SLAB 2



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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 GIRDERS	1.3	0.4		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	6.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

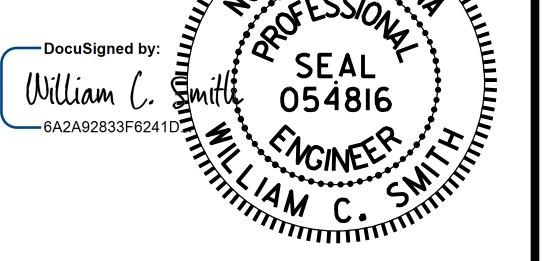
BEAUFORT COUNTY

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RALEIGH

DECK UNDERSIDE REPAIR SPANS 1 THRU 5



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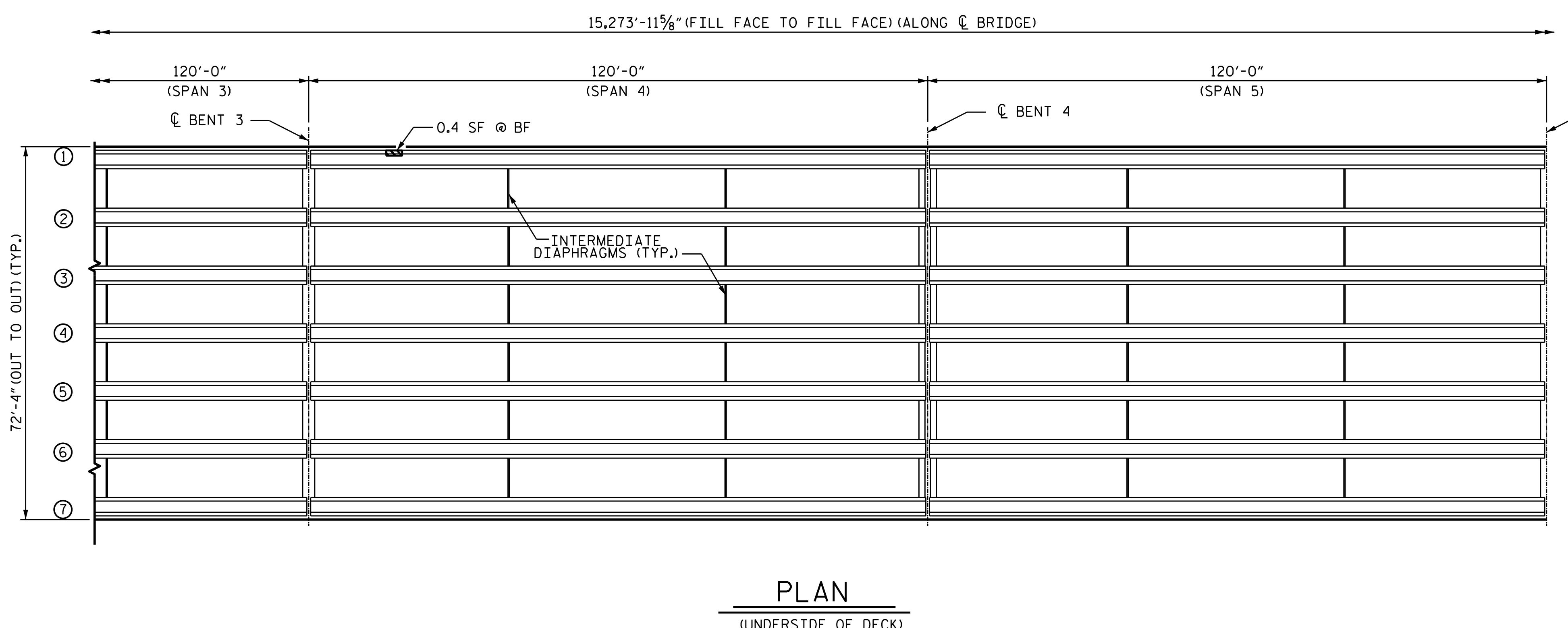
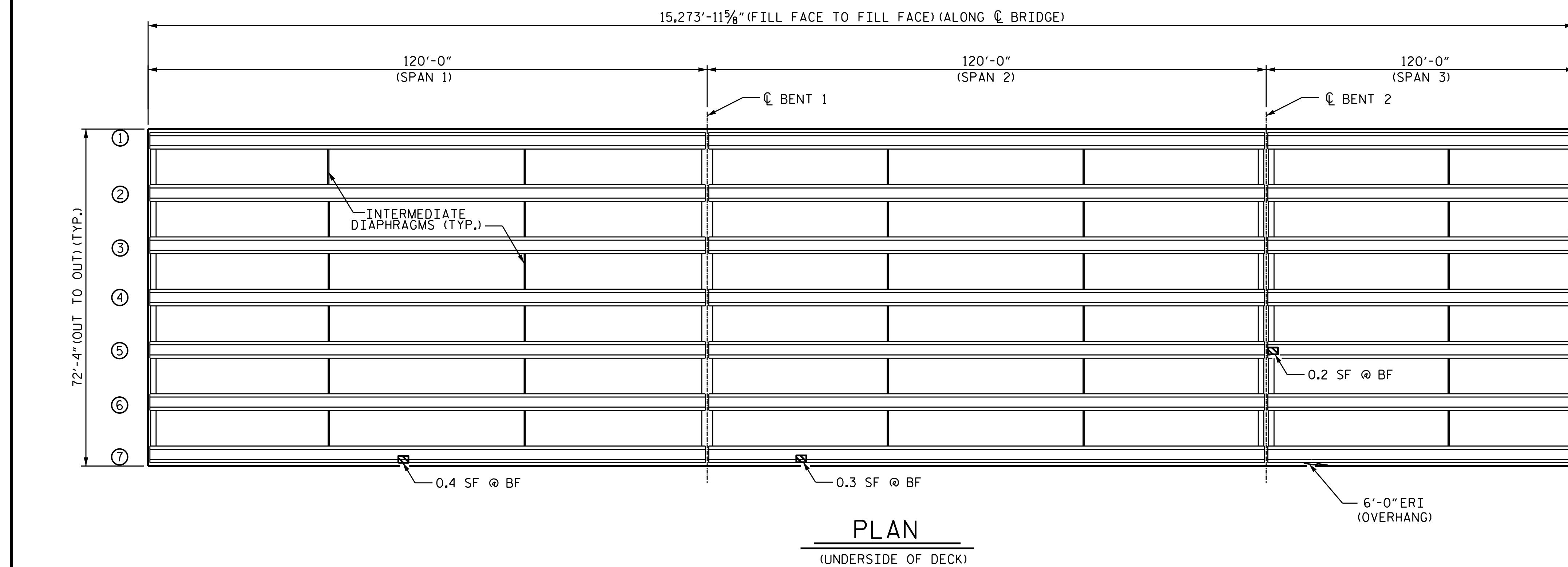
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TOTAL SHEETS

217

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REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 6 THRU 10

	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 GIRDERS	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.
GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS, SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

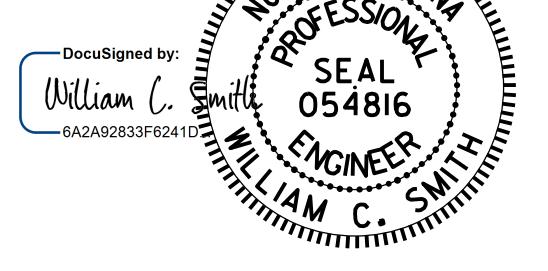
	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS REPAIR
ERI	EPOXY RESIN INJECTION
TF	TOP OF FLANGE
BF	BOTTOM OF FLANGE
W	WEB
①	GIRDER NUMBER

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

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

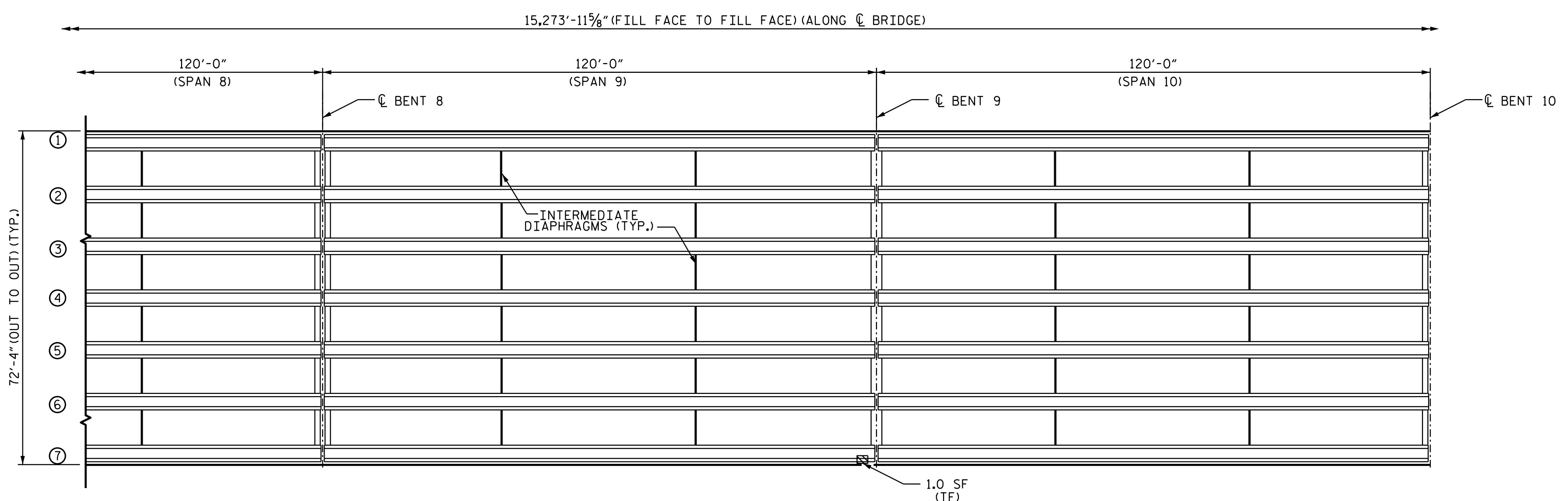
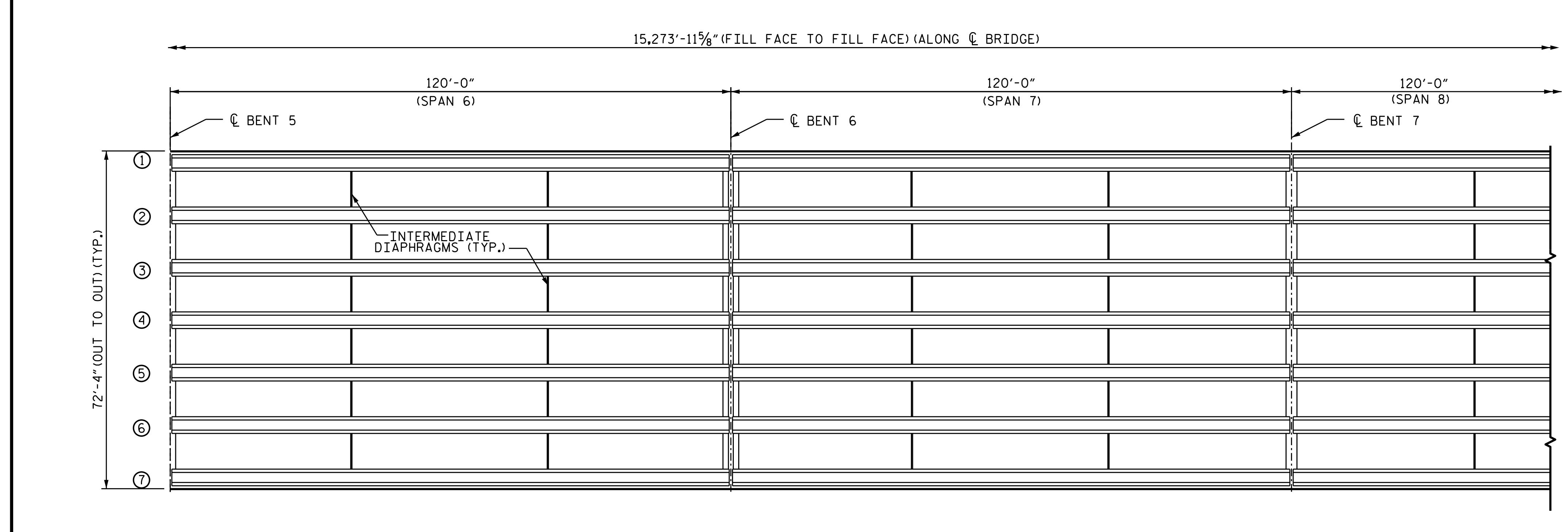
DECK UNDERSIDE REPAIR SPANS 6 THRU 10



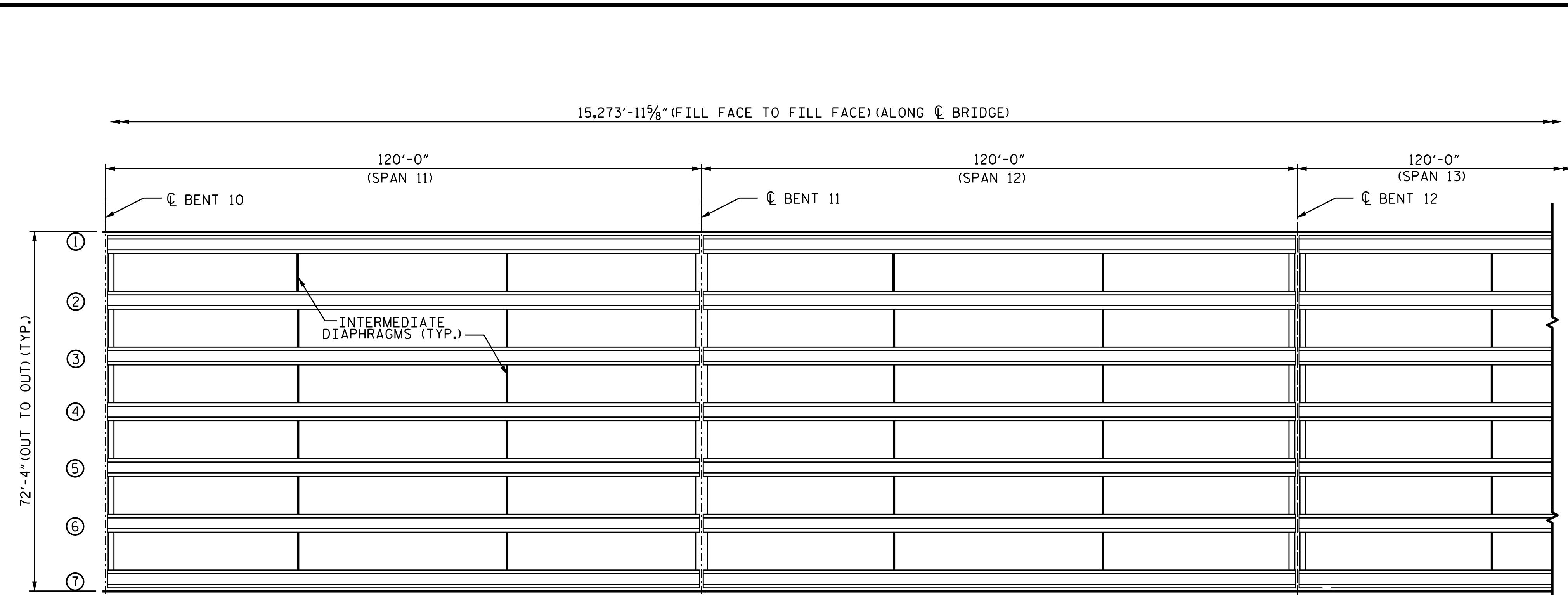
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REPAIR QUANTITY TABLE

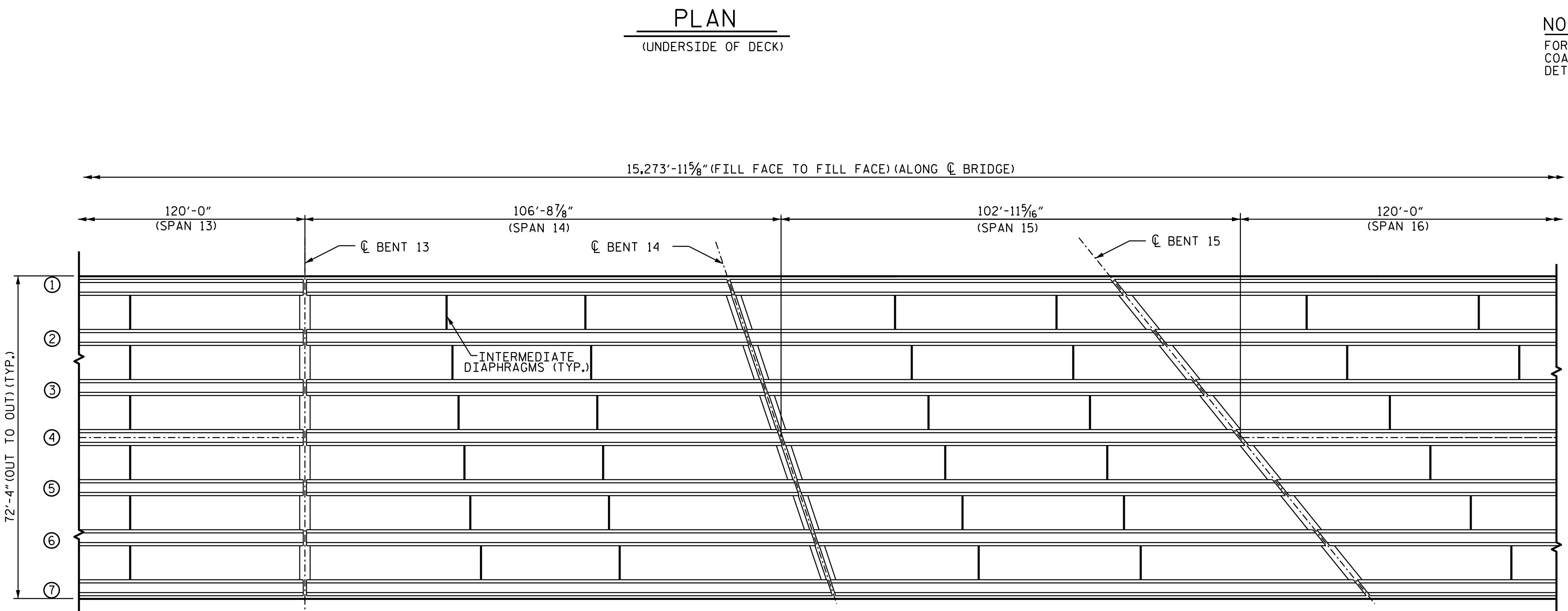
DECK UNDERSIDE REPAIRS - SPANS 11 THRU 15

	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 GIRDERS	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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

PLAN

(UNDERSIDE OF DECK)



NOTES

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

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

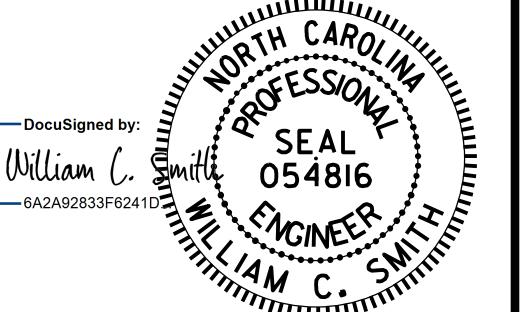
PROJECT NO. 15BPR.137

BEAUFORT COUNTY

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK UNDERSIDE REPAIR SPANS 11 THRU 15

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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 GIRDERS	0.8	0.2		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.
GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

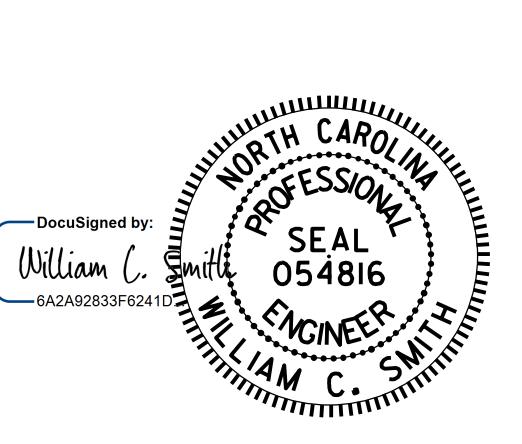
	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS REPAIRS
	ERI EPOXY RESIN INJECTION
TF	TOP OF FLANGE
BF	BOTTOM OF FLANGE
W	WEB
(1)	GIRDER NUMBER

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

SHEET 4 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

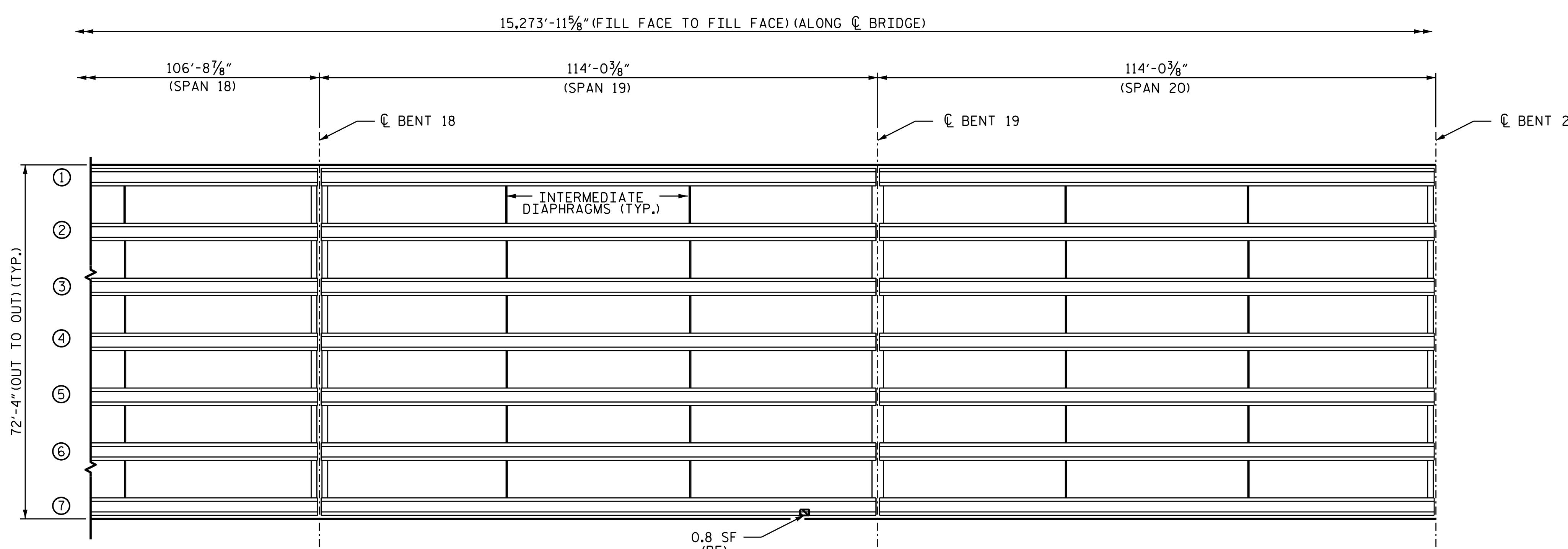
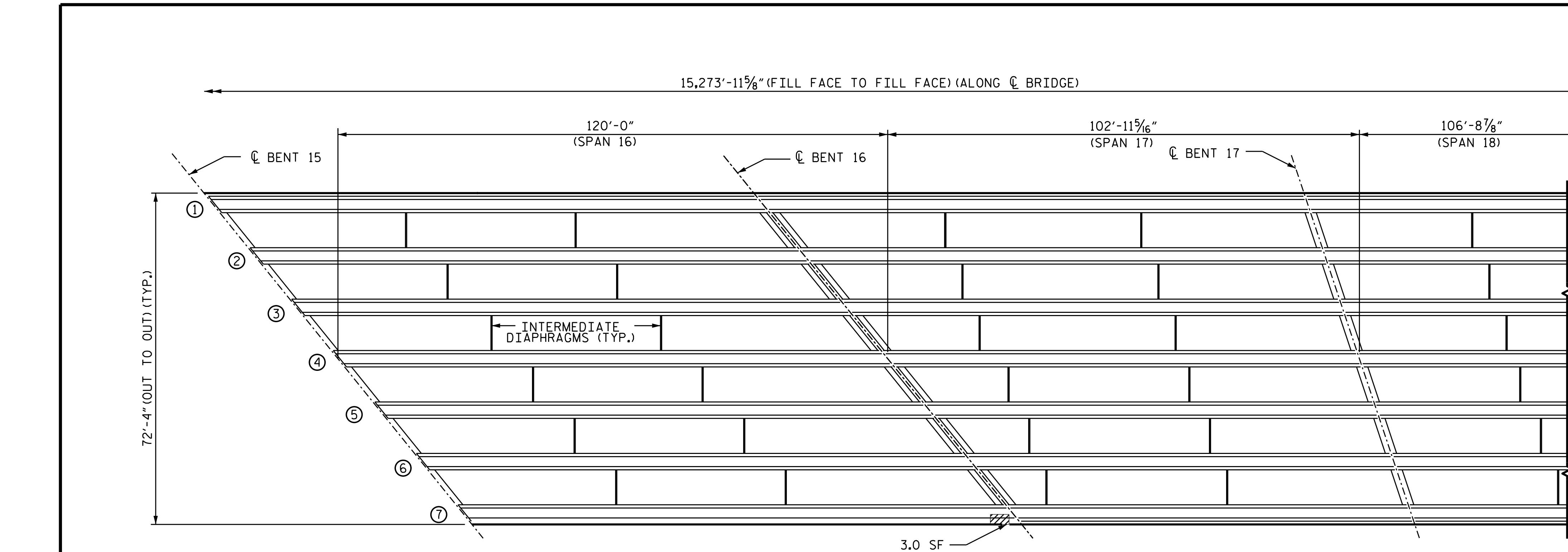
DECK UNDERSIDE REPAIR SPANS 16 THRU 20



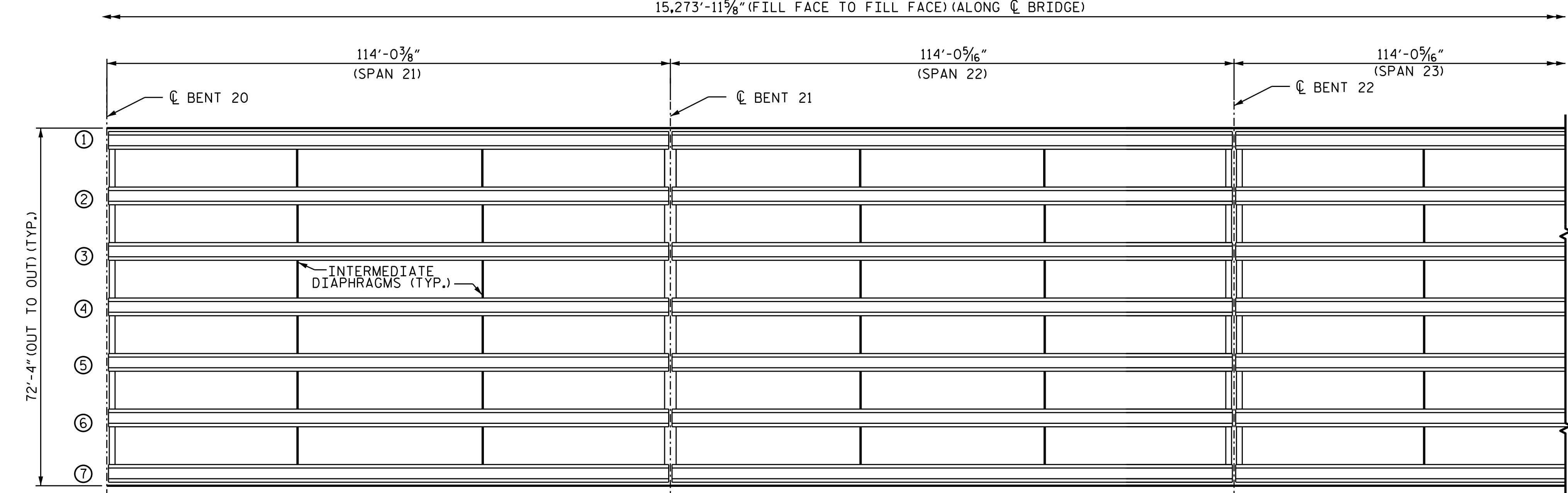
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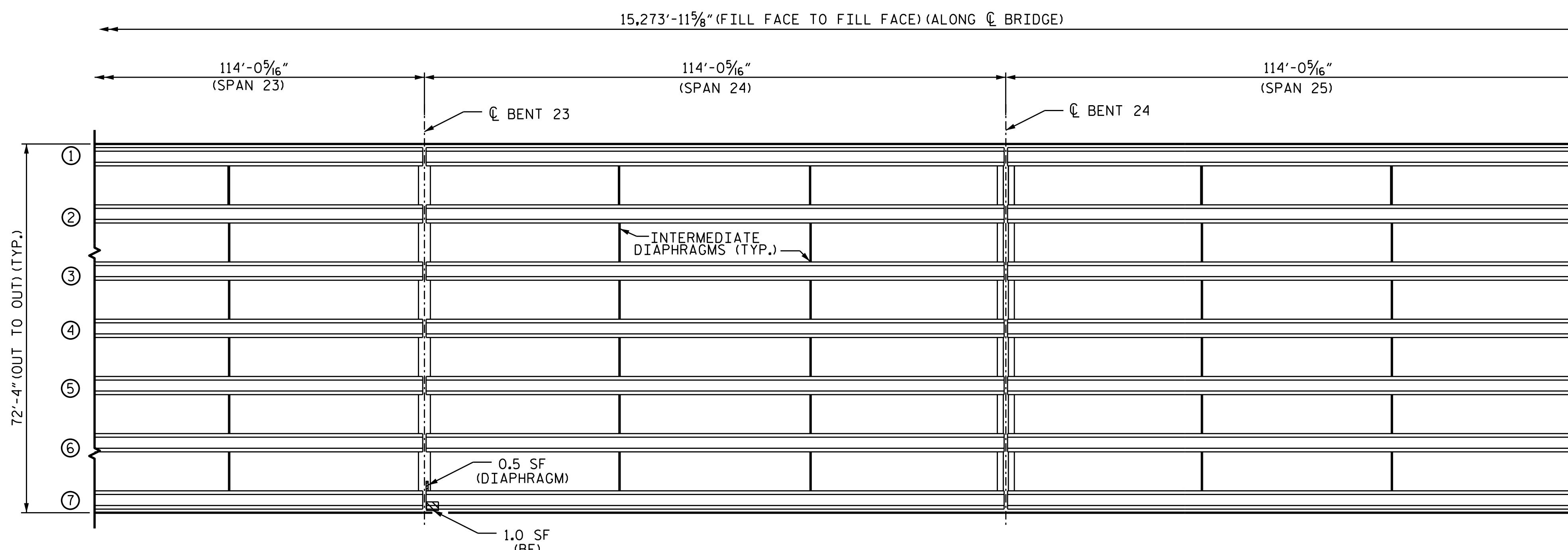
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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

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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 GIRDERS	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	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

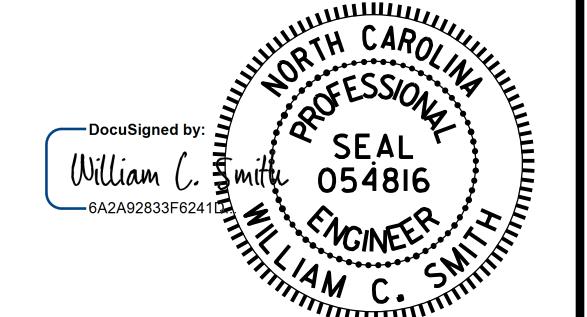
FOR PRESTRESSED CONCRETE GIRDERS, REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS, SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS 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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DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK UNDERSIDE
REPAIR
SPANS 21 THRU 25

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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 GIRDERS	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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

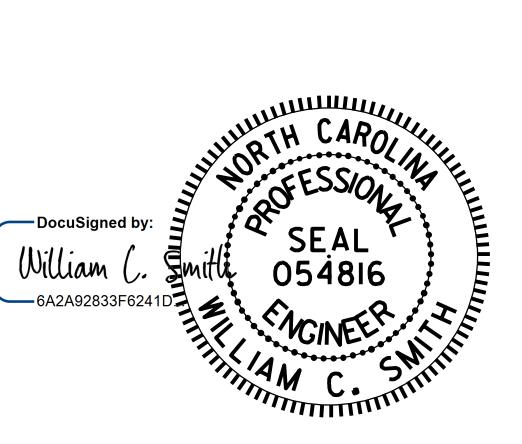
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 6 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

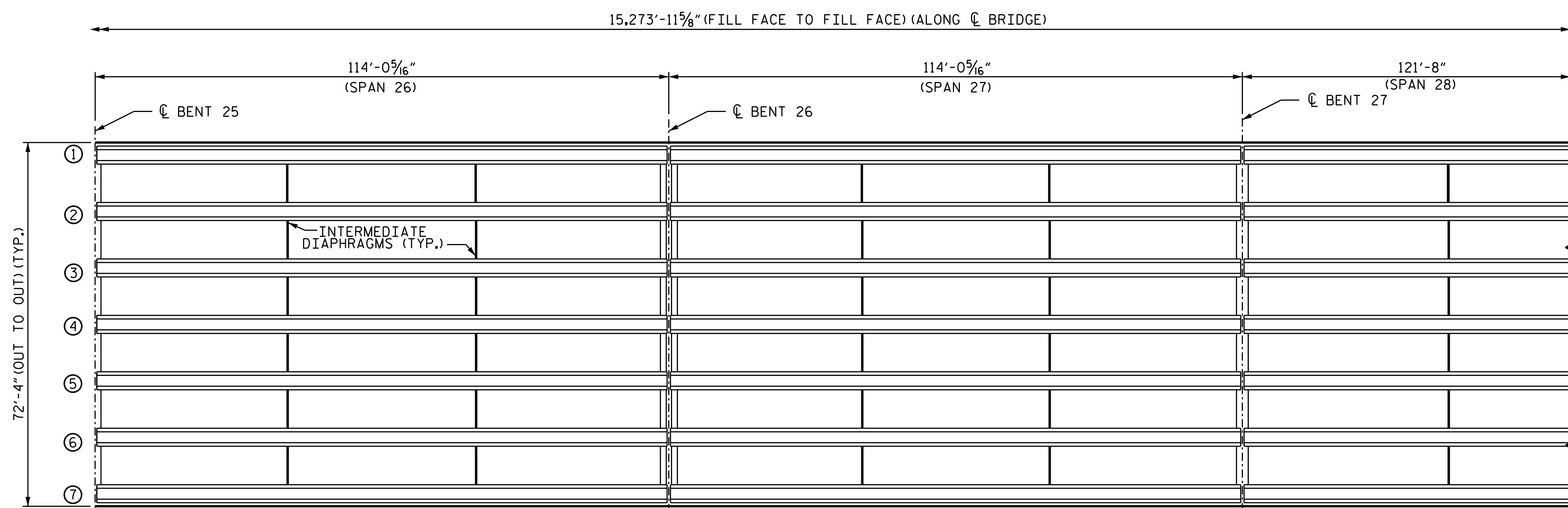
DECK UNDERSIDE REPAIR SPANS 26 THRU 30



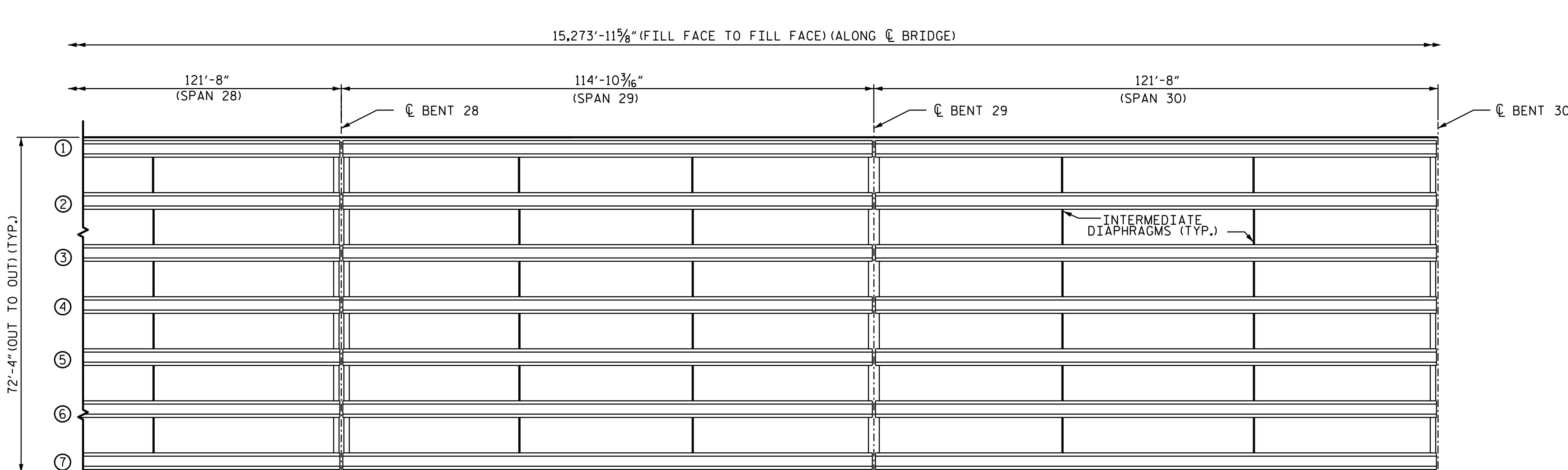
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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

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

REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 31 THRU 35

	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 GIRDERS	1.0	0.3		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

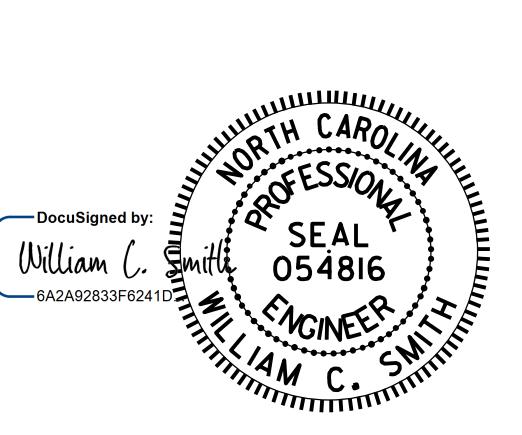
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 7 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

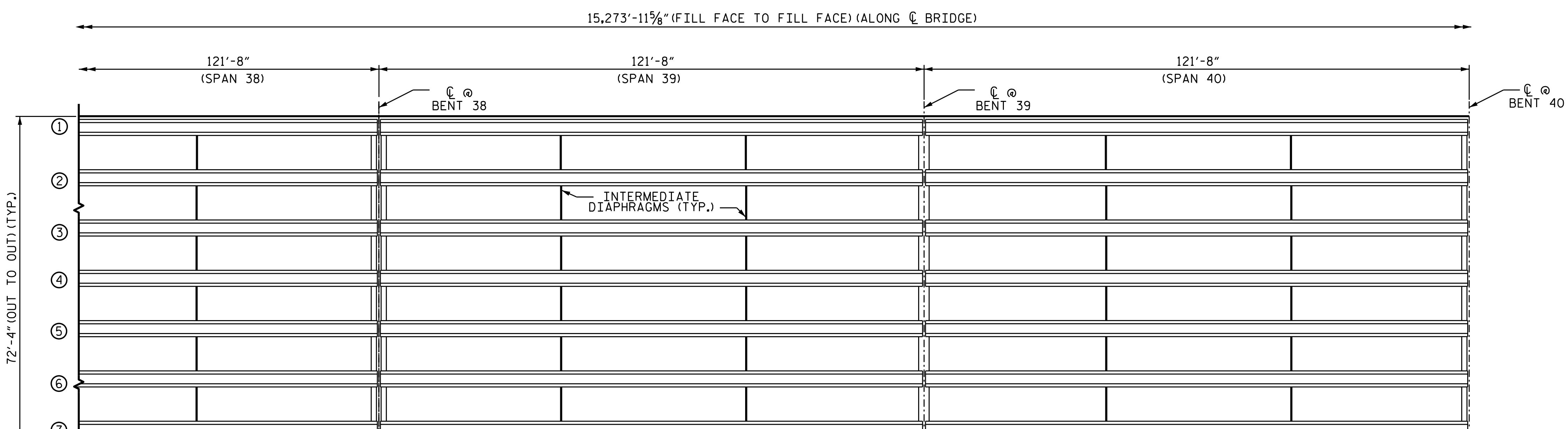
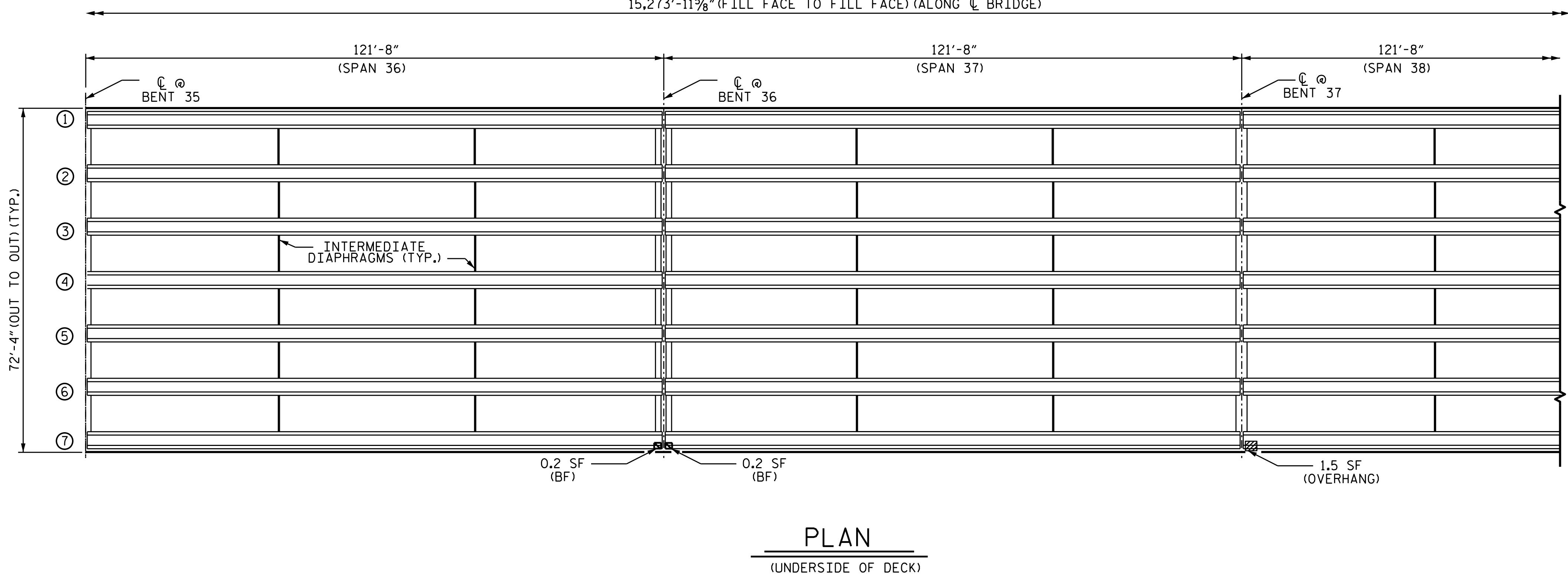
DECK UNDERSIDE REPAIR SPANS 31 THRU 35



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DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/26/24
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.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	1.5	0.8	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	0.4	0.1	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

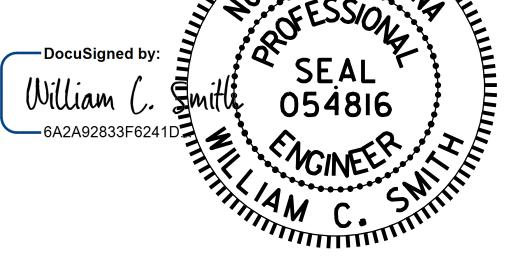
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RALEIGH

DECK UNDERSIDE REPAIR SPANS 36 THRU 40

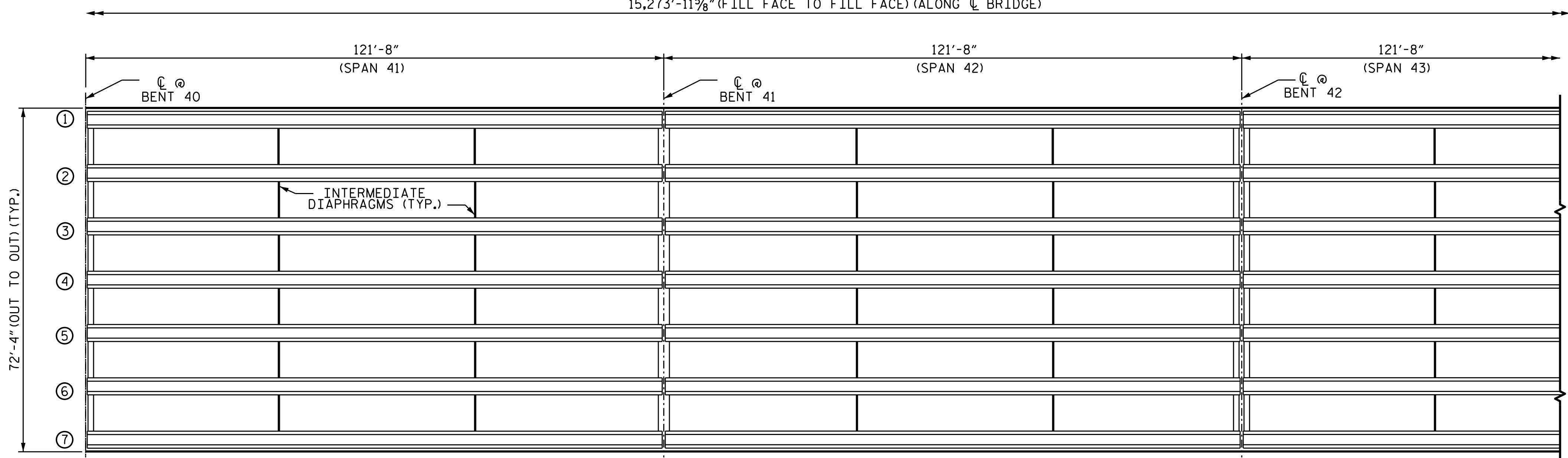


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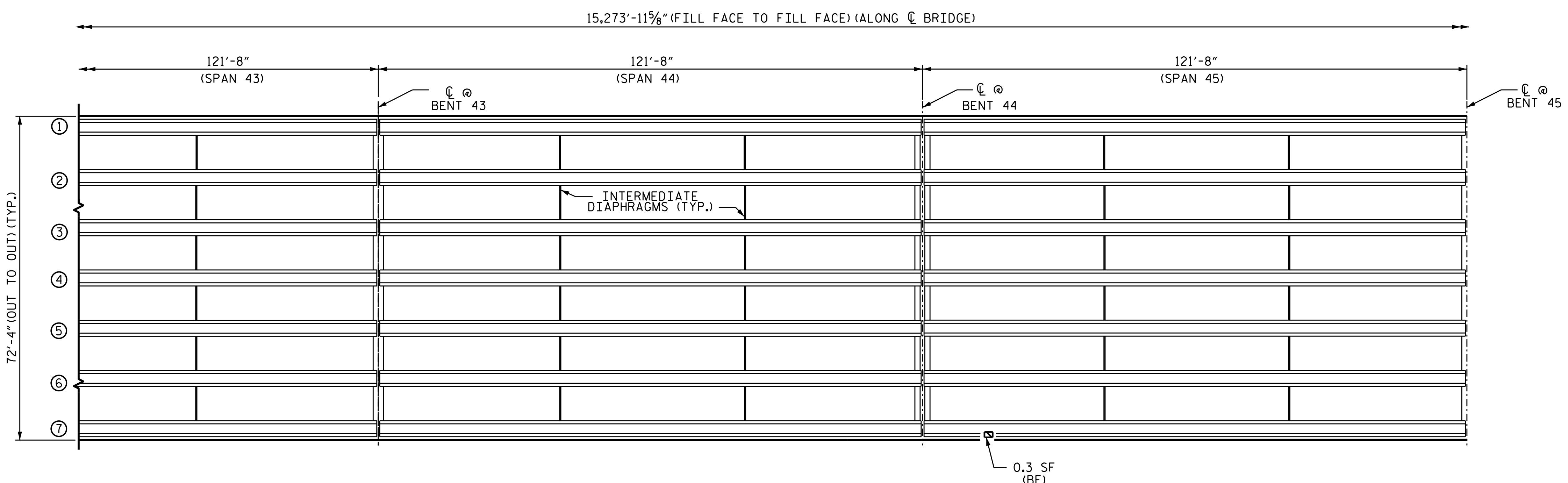
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217



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

REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 41 THRU 45		ESTIMATE	ACTUAL
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	0.3	0.1	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

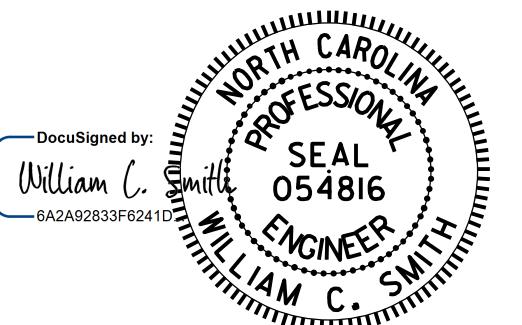
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BEAUFORT COUNTY

BRIDGE NO. 060353

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DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK UNDERSIDE
REPAIR
SPANS 41 THRU 45

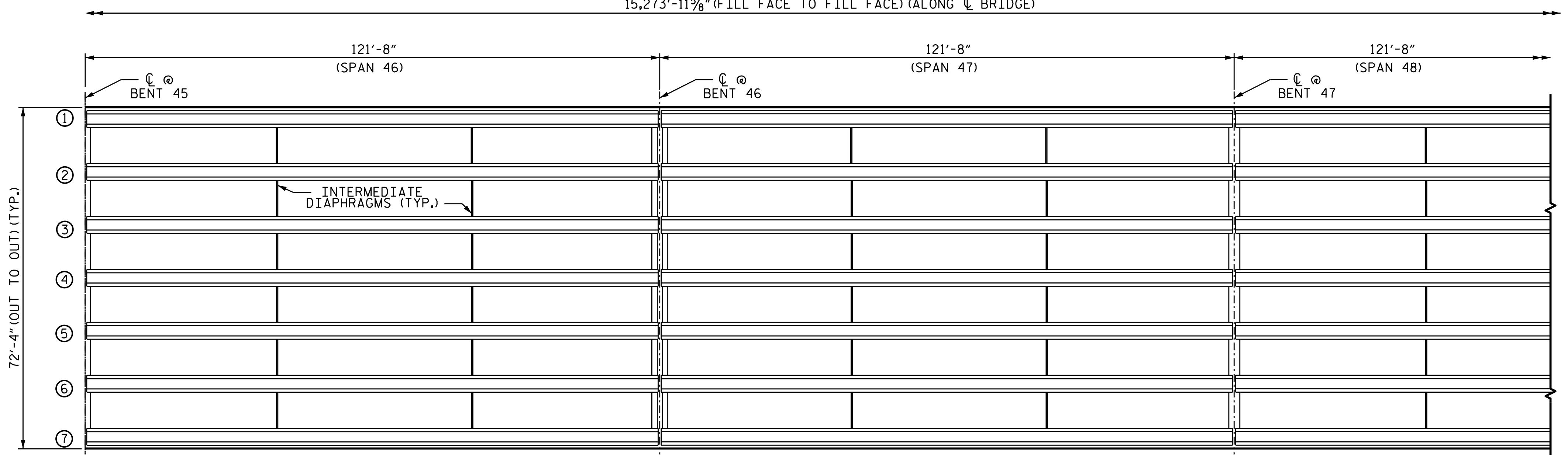
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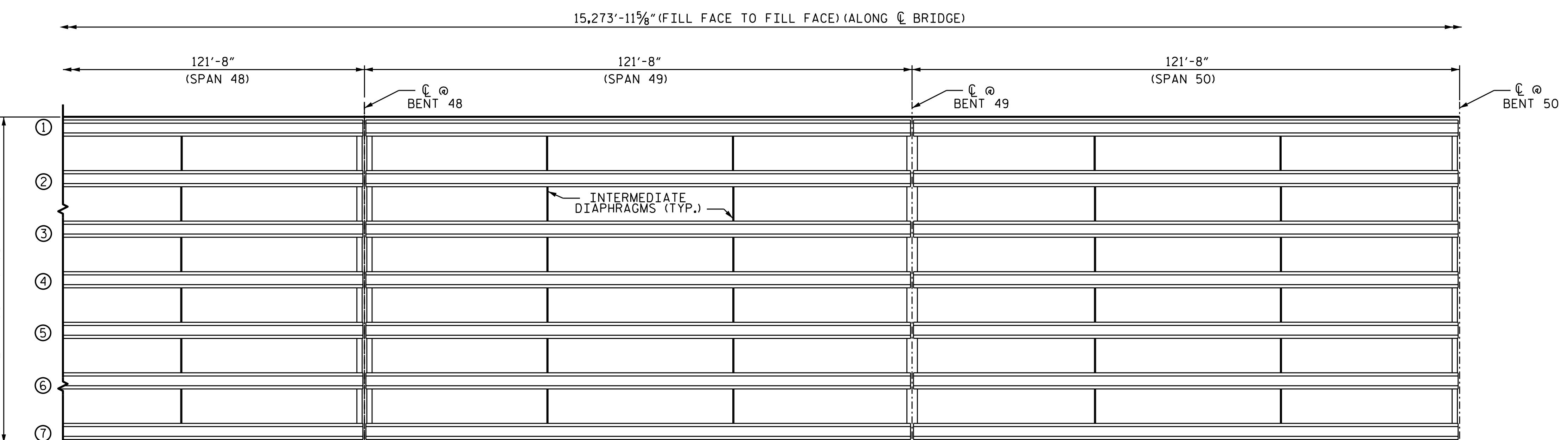
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217



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 46 THRU 50			
	ESTIMATE	ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	0.0	0.0	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

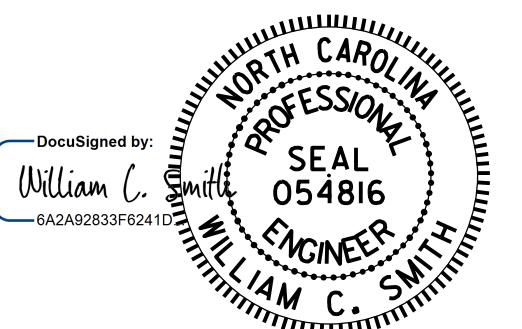
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BEAUFORT COUNTY

BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

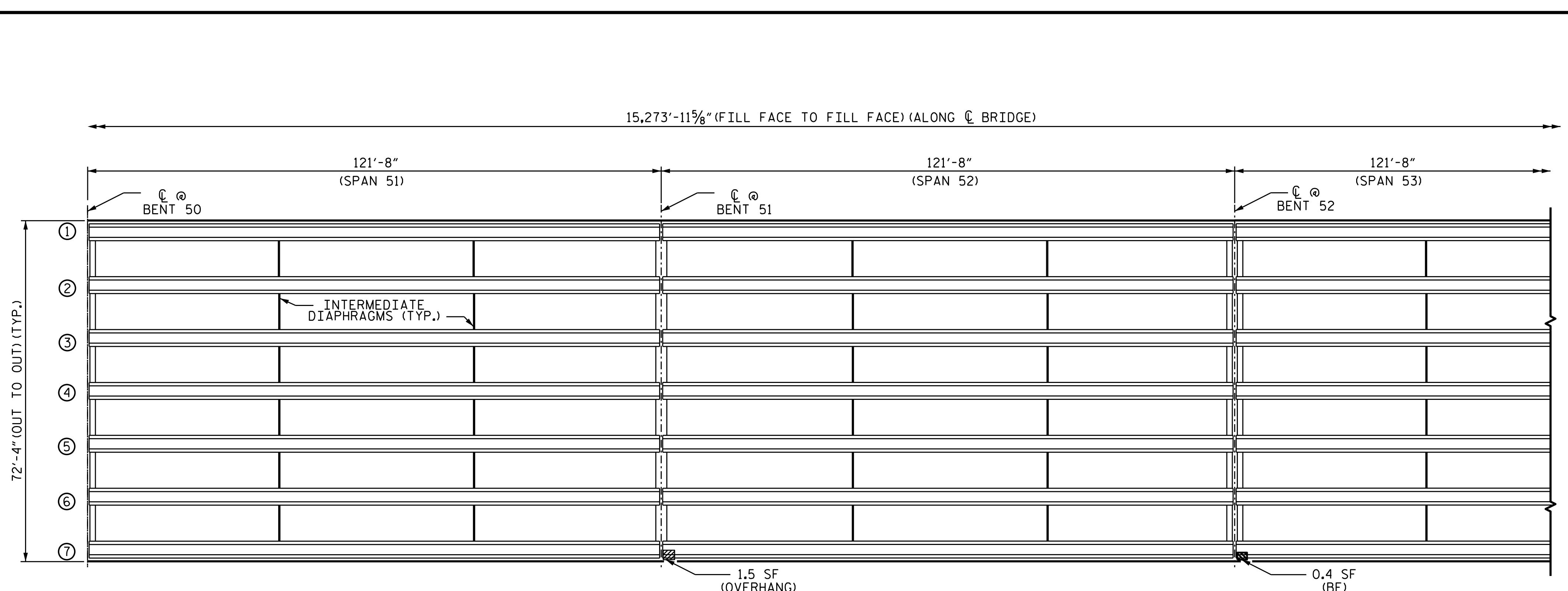


DECK UNDERSIDE
REPAIR
SPANS 46 THRU 50

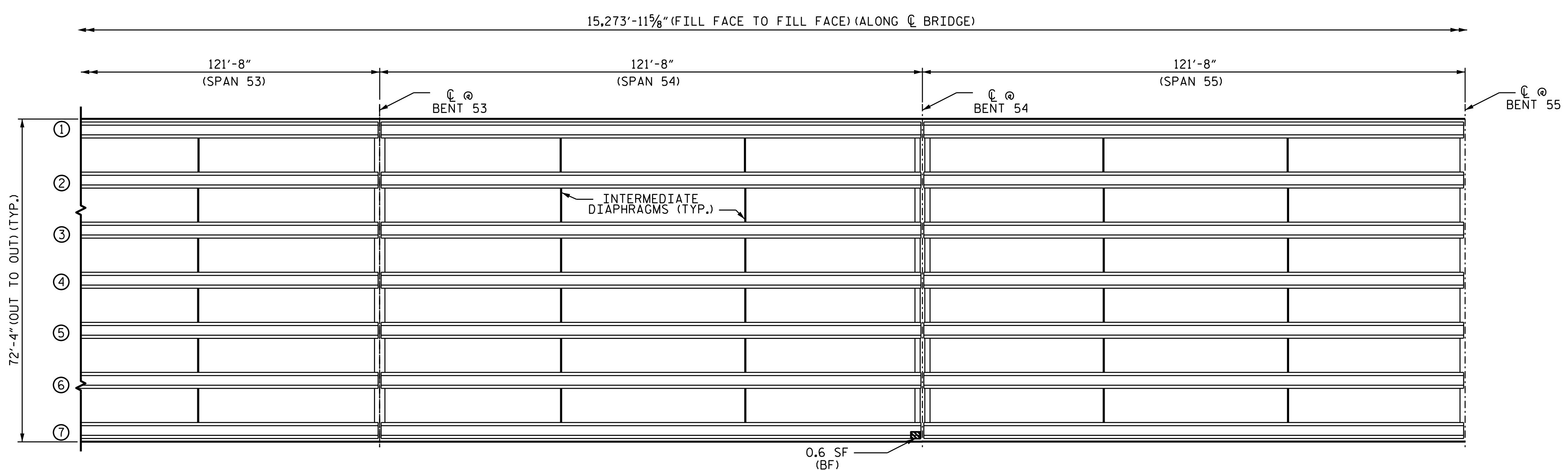
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PLAN
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CHECKED BY : W. C. SMITH DATE : 09/30/24

REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 51 THRU 55		ESTIMATE	ACTUAL
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	1.5	0.8	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	1.0	0.3	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

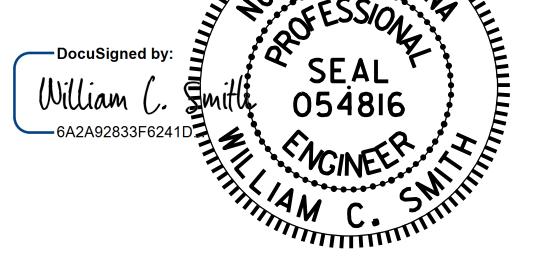
BEAUFORT COUNTY

BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE REPAIR SPANS 51 THRU 55

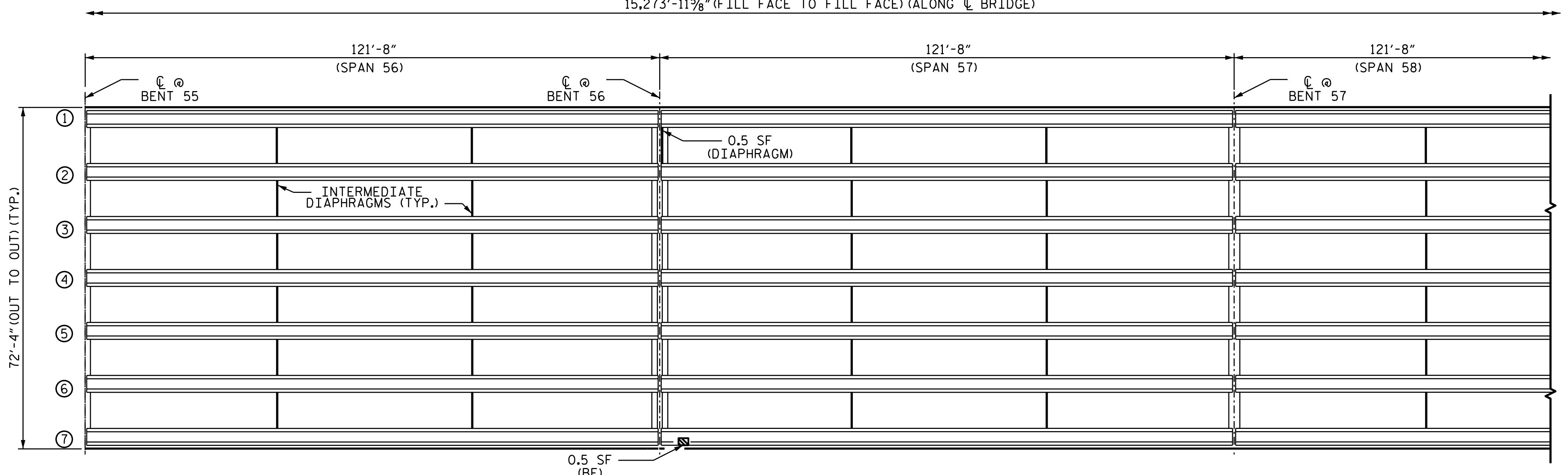


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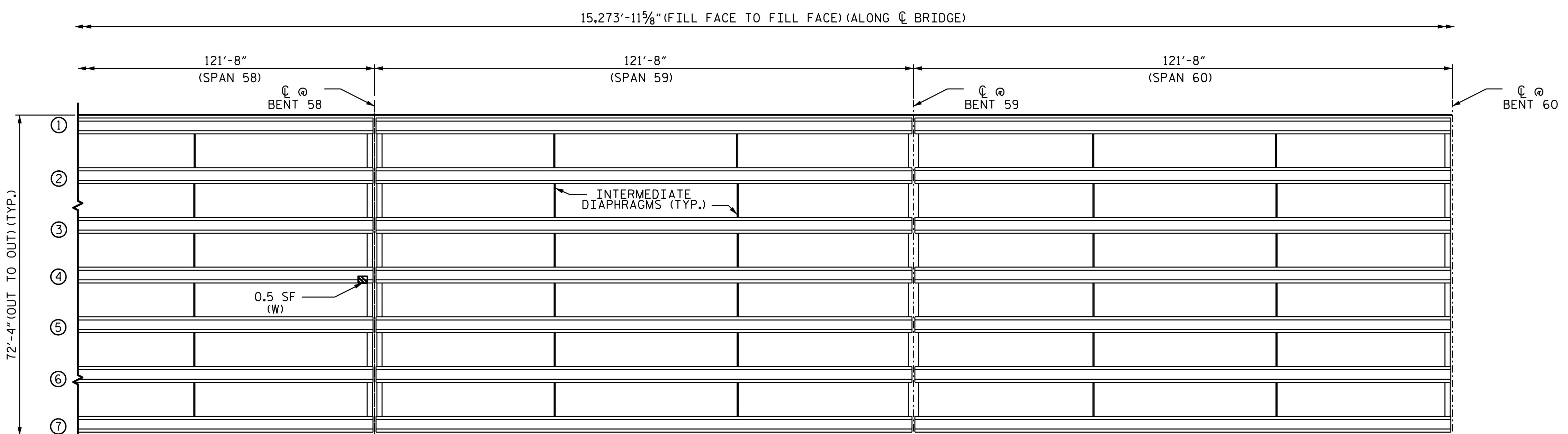
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S-47
TOTAL SHEETS
217



PLAN
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PLAN
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REPAIR QUANTITY TABLE

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

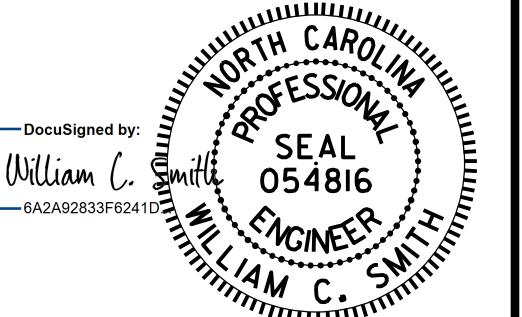
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

	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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DEPARTMENT OF TRANSPORTATION
RALEIGH



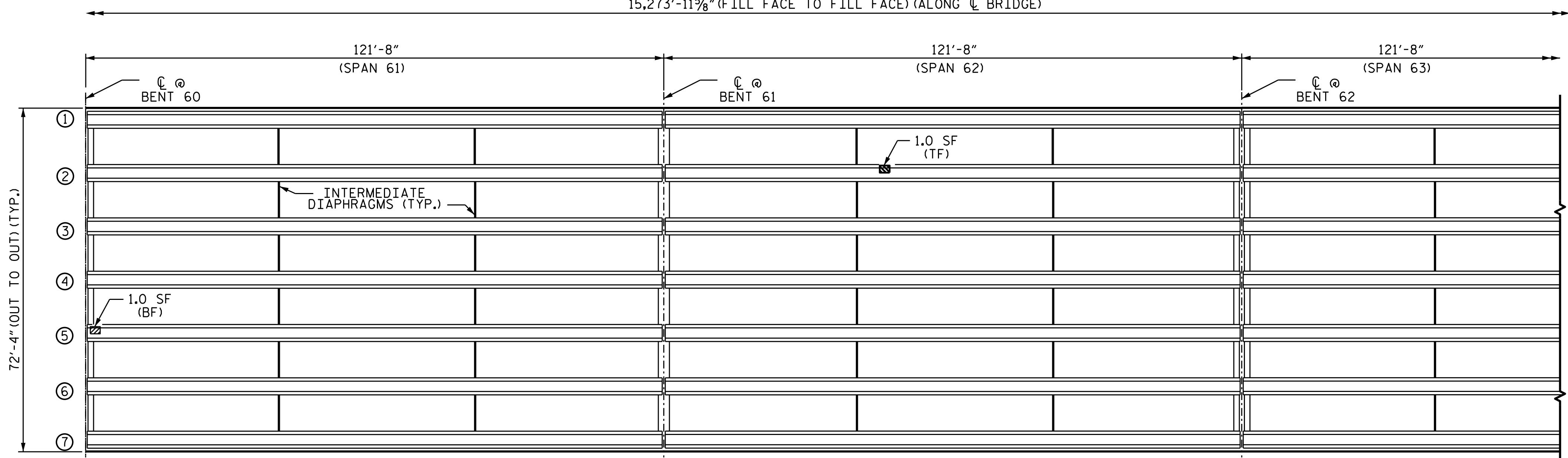
DECK UNDERSIDE REPAIR SPANS 56 THRU 60

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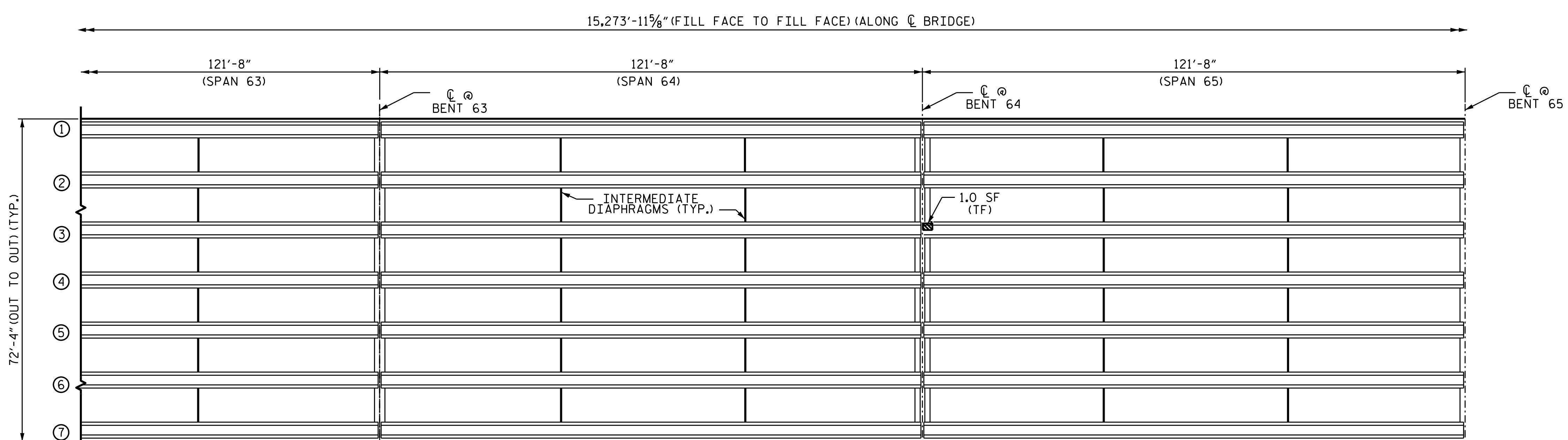
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217



PLAN
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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.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	3.0	0.9	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS 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 13 OF 29

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DECK UNDERSIDE
REPAIR
SPANS 61 THRU 65



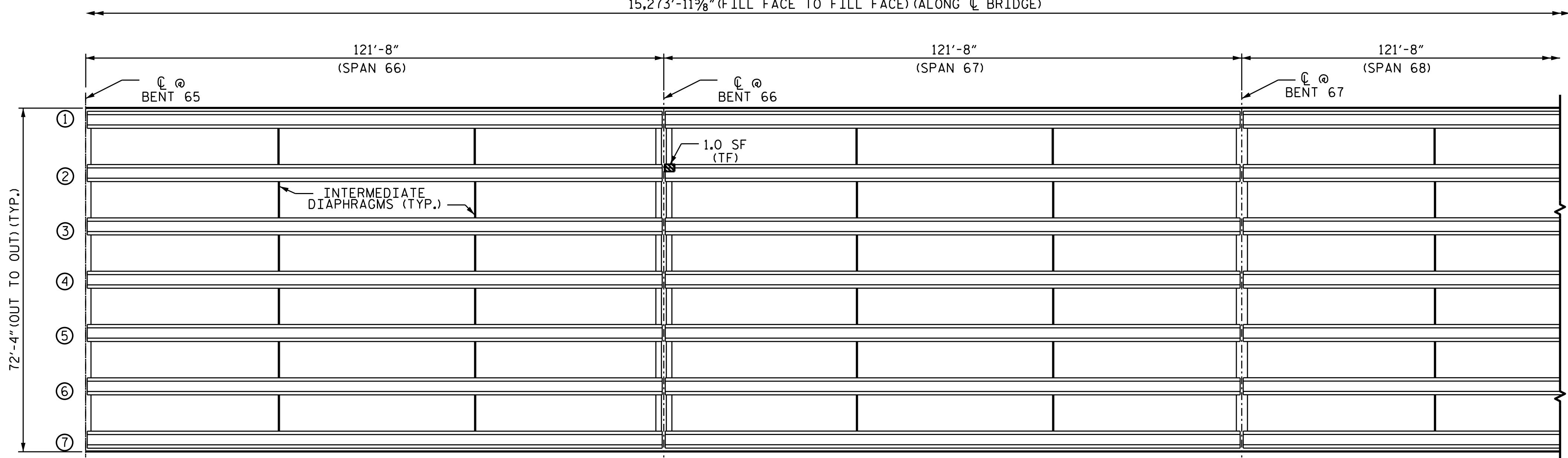
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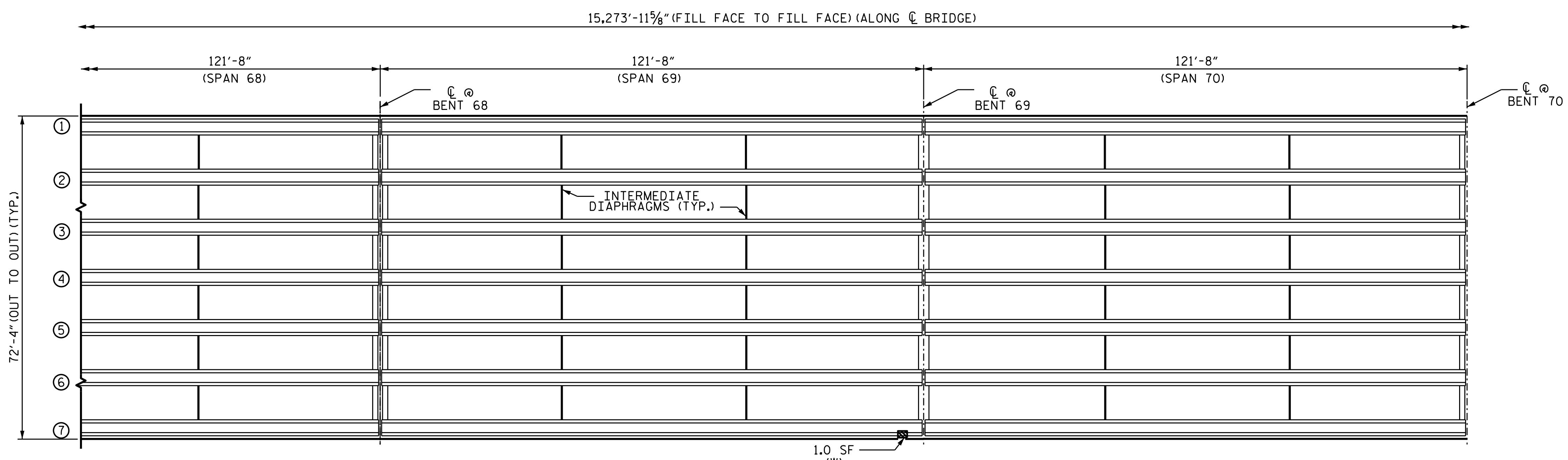
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217



PLAN
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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.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	2.0	0.6	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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

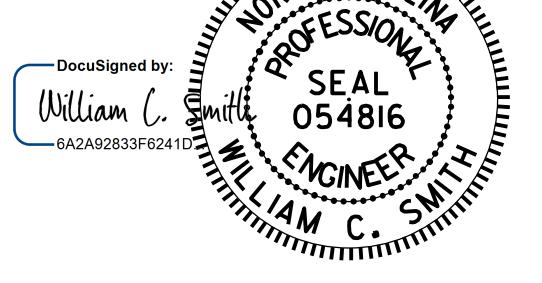
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 14 OF 29

STATE OF NORTH CAROLINA
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RALEIGH

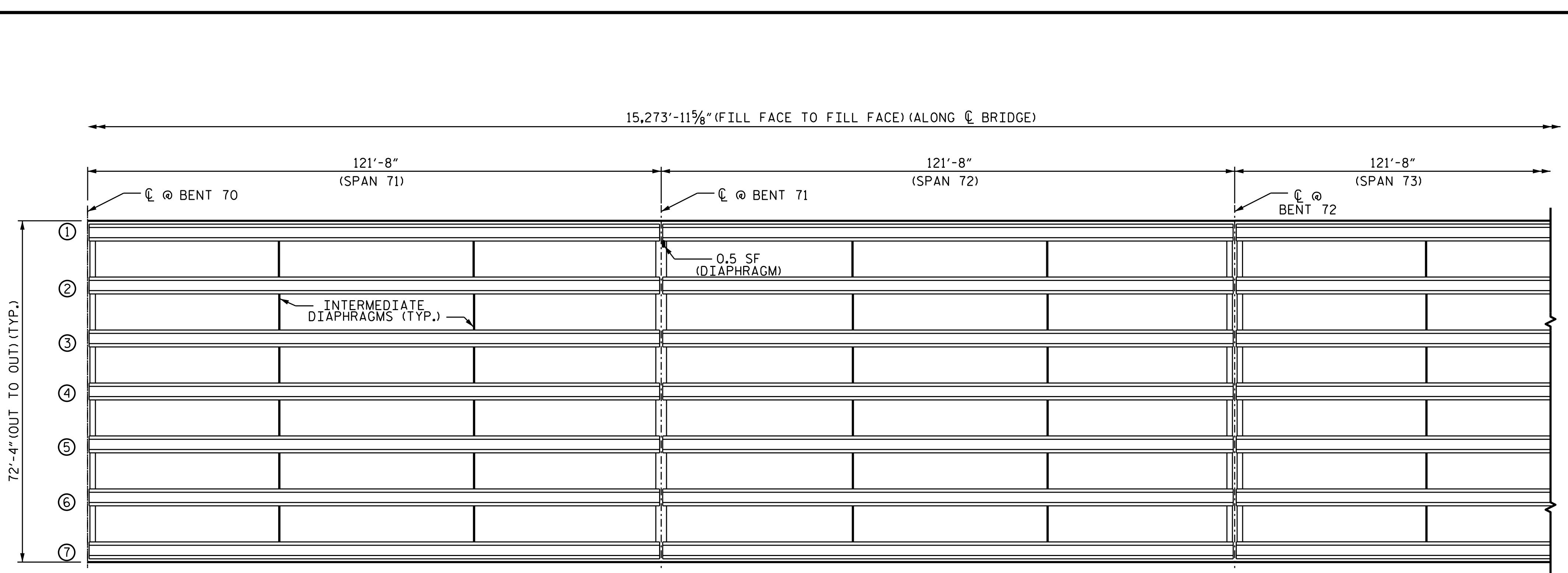
DECK UNDERSIDE REPAIR SPANS 66 THRU 70



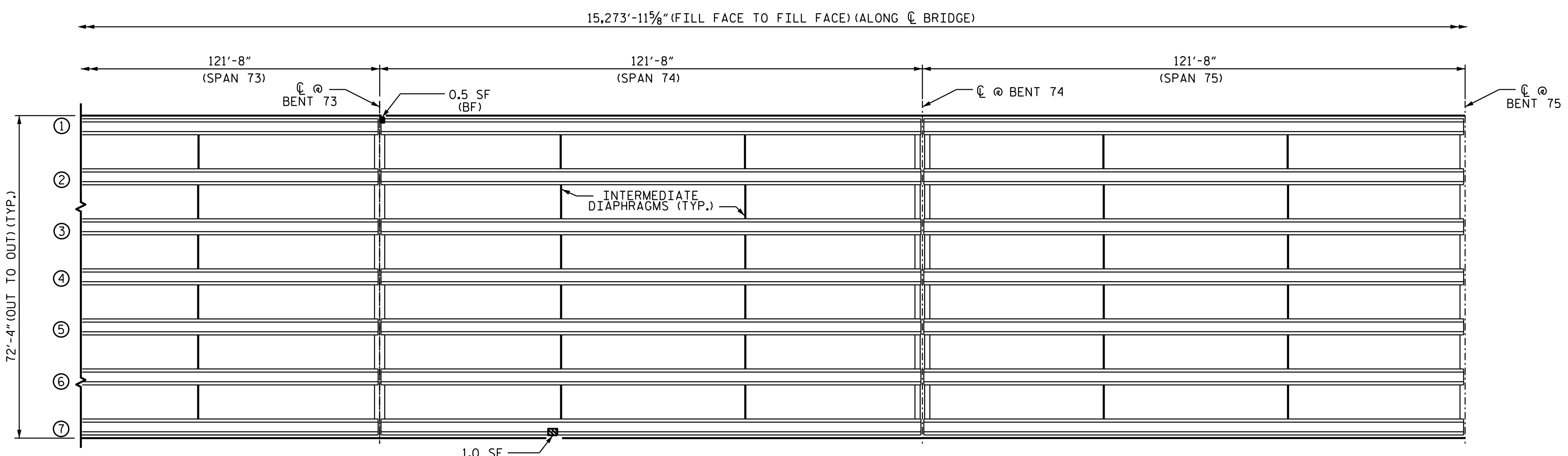
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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

DRAWN BY : S. T. SANDOR / H. AYTODA DATE : 09/26/24
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REPAIR QUANTITY TABLE

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

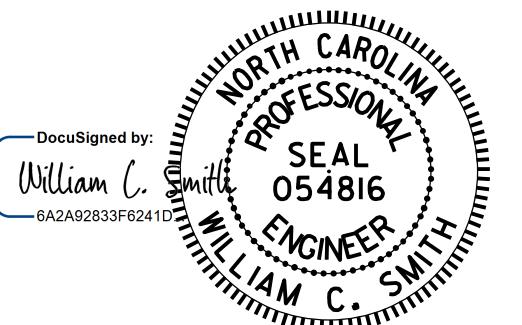
PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 15 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



DECK UNDERSIDE
REPAIR
SPANS 71 THRU 75

REVISIONS					SHEET NO.	
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TOTAL SHEETS
217

REPAIR QUANTITY TABLE

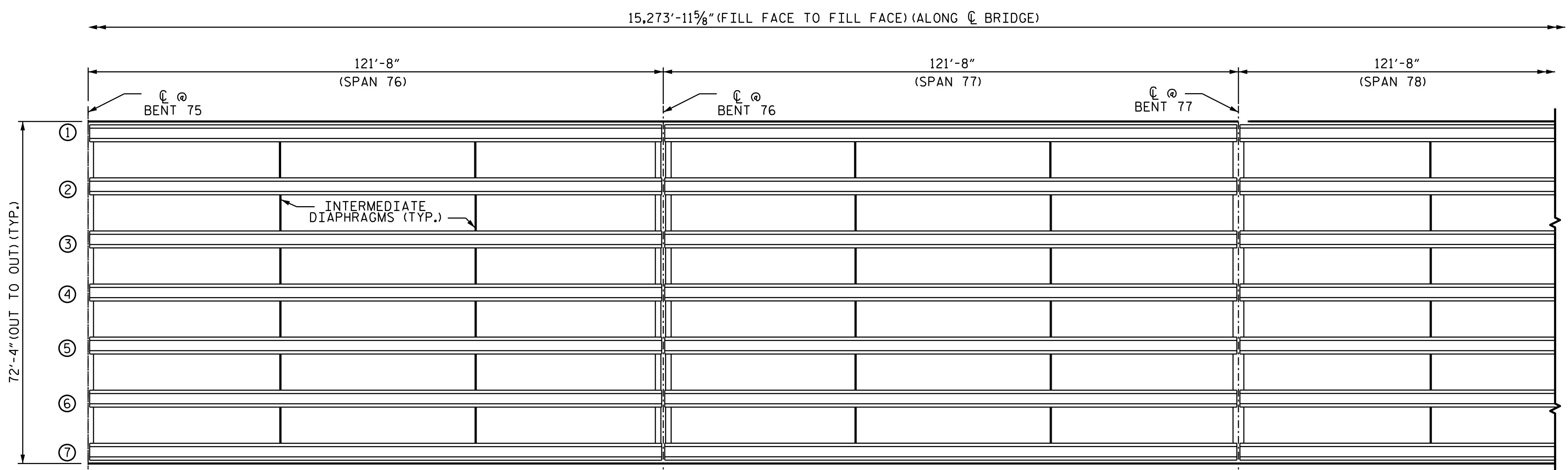
DECK UNDERSIDE REPAIRS - SPANS 76 THRU 80

	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 GIRDERS	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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

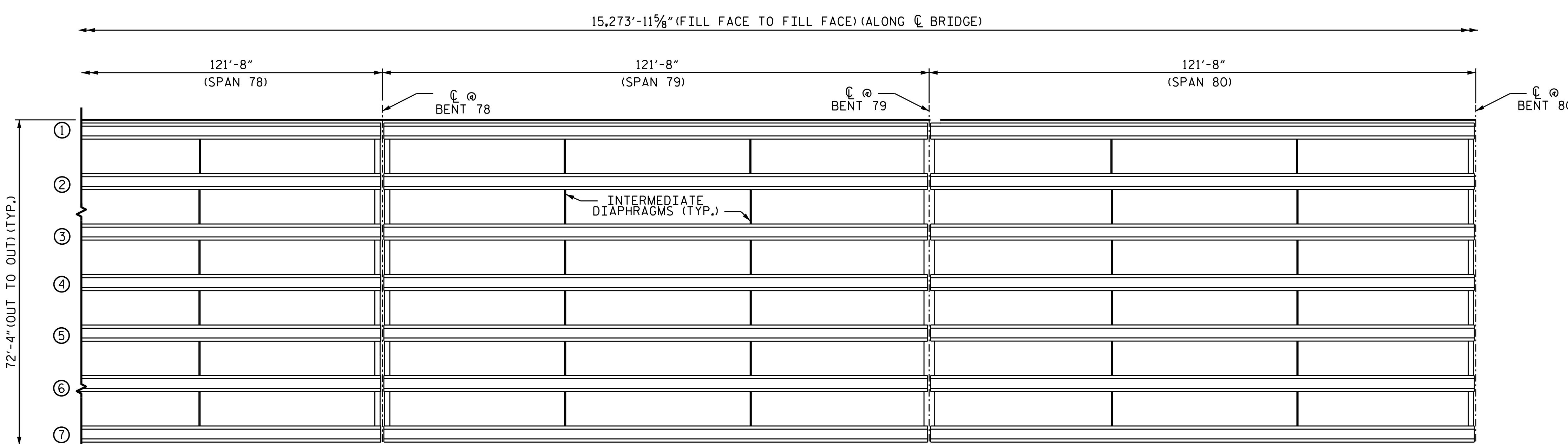
NOTES

FOR PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.



PLAN

(UNDERSIDE OF DECK)



PLAN

(UNDERSIDE OF DECK)

	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS 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

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE REPAIR SPANS 76 THRU 80



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1			3			
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TOTAL SHEETS
217

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 GIRDERS	5.3	1.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS REPAIRS
	ERI
	EPOXY RESIN INJECTIONS
	TF
	BOTTOM OF FLANGE
	BF
	WEB
	GIRDER NUMBER

PROJECT NO. 15BPR.137

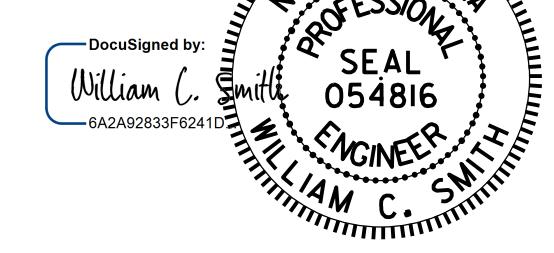
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 17 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

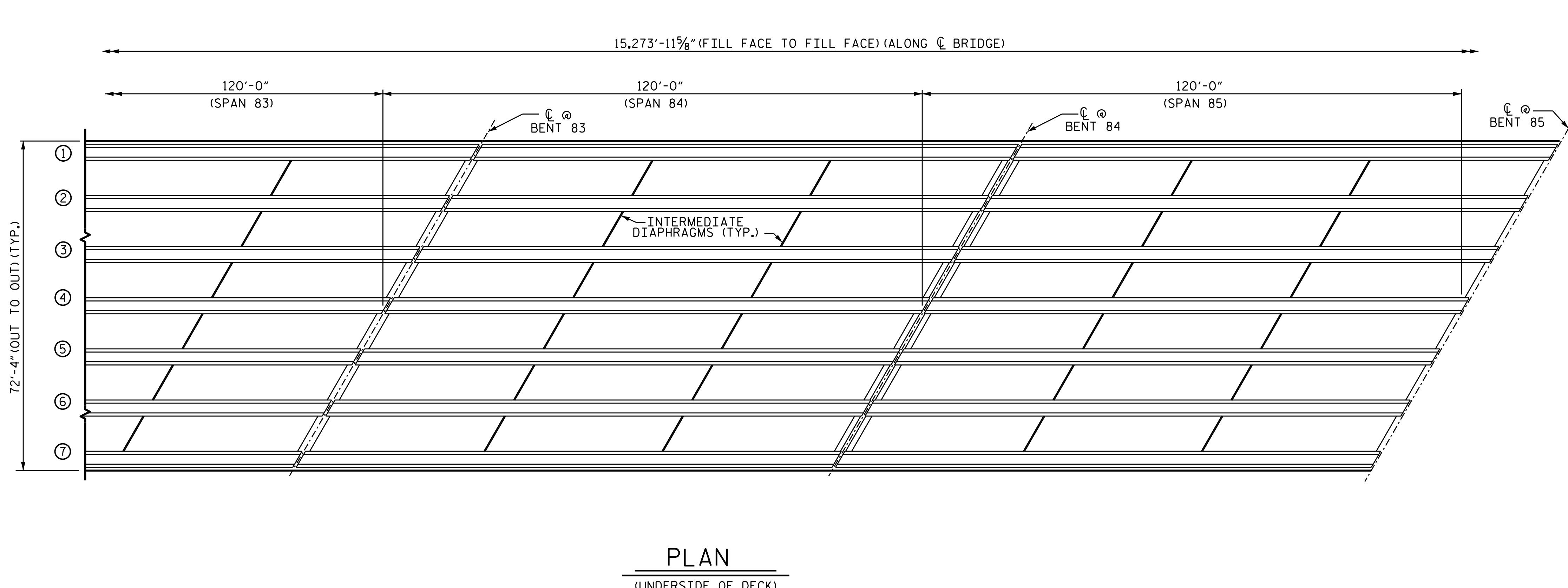
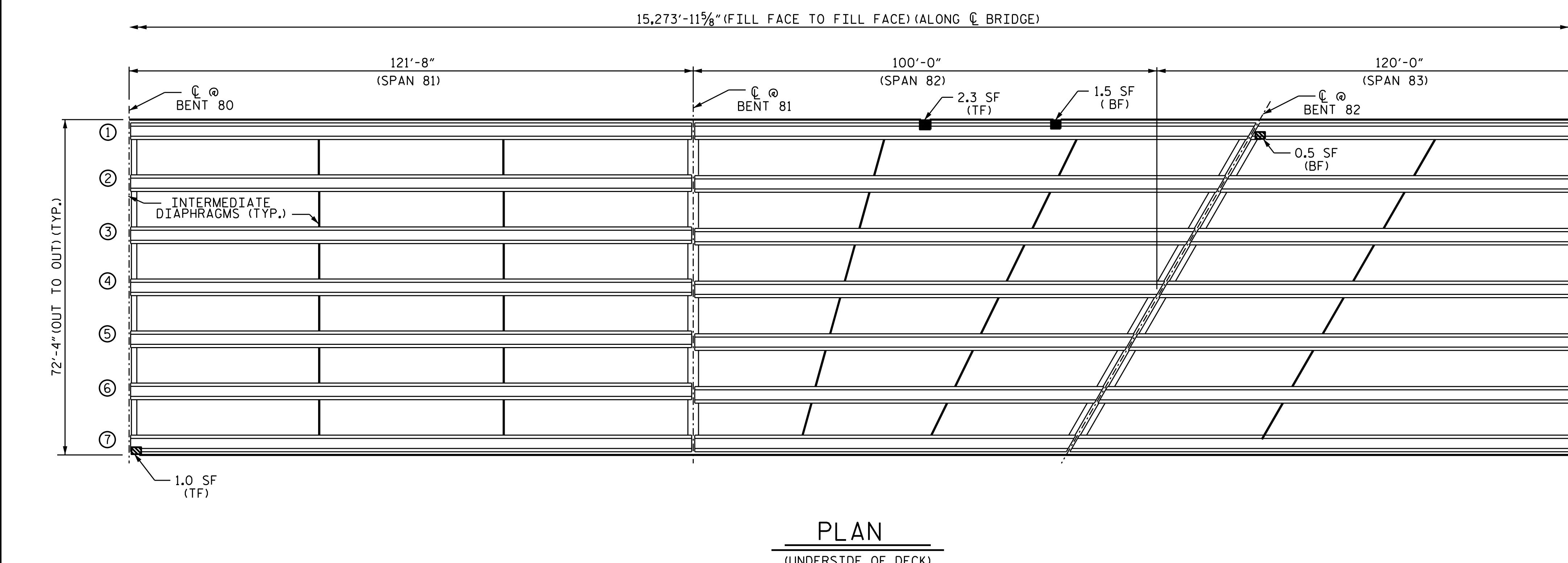
DECK UNDERSIDE REPAIR SPANS 81 THRU 85



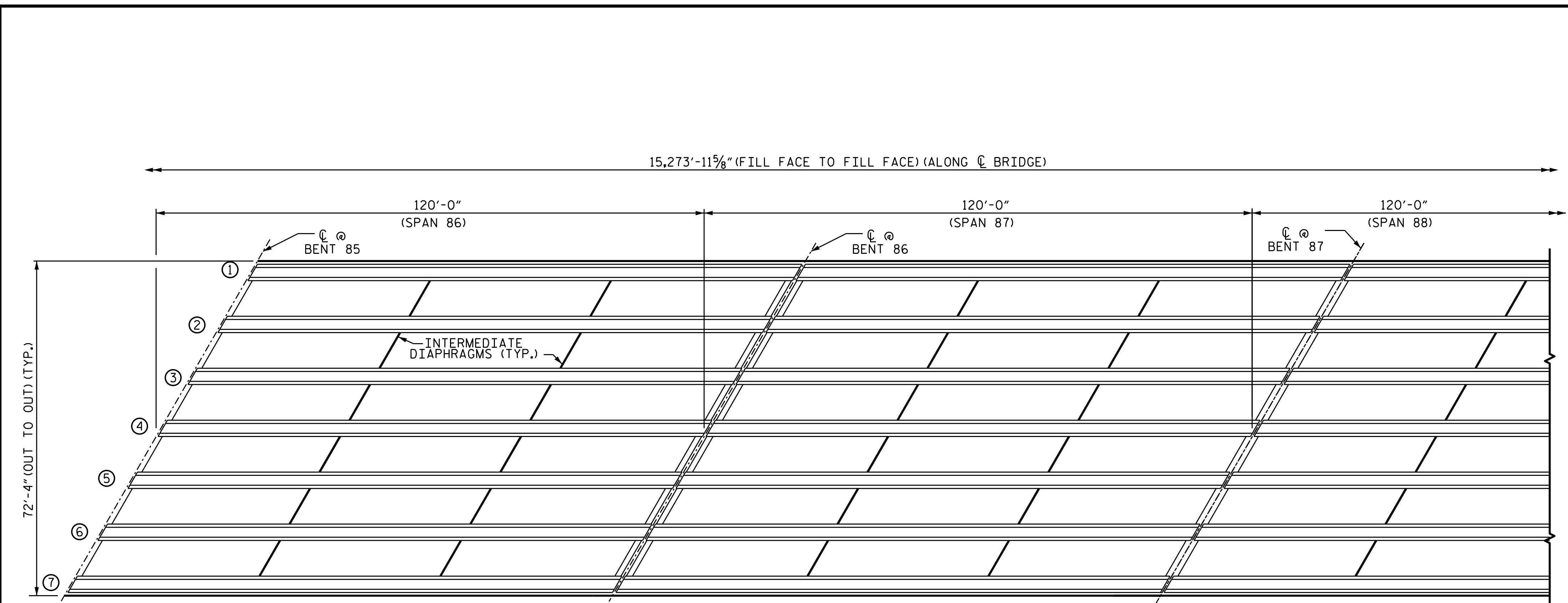
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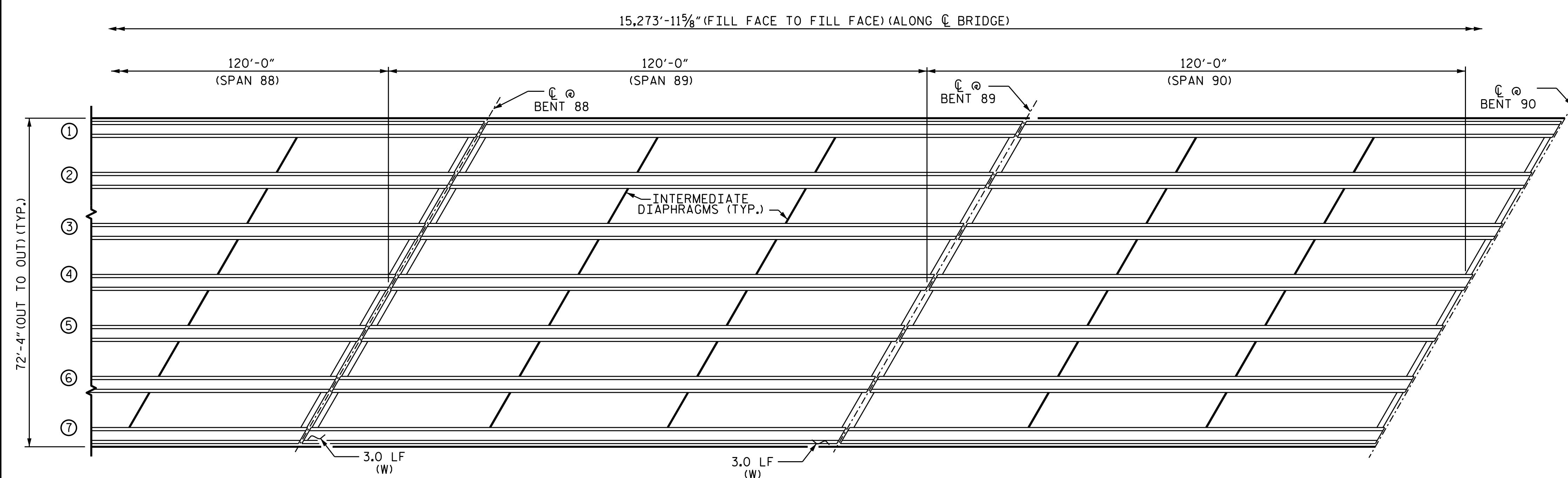
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PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

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REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 86 THRU 90

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

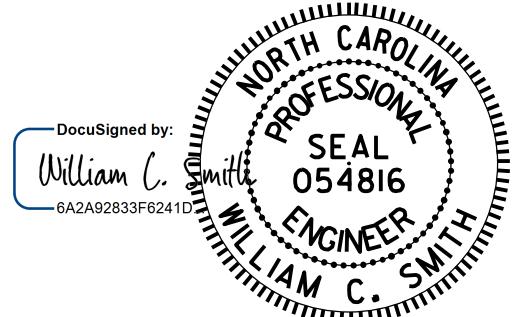
FOR PRESTRESSED CONCRETE GIRDER REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDER ENDS, SEE PRESTRESSED CONCRETE GIRDER REPAIR DETAILS SHEET.

	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 18 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

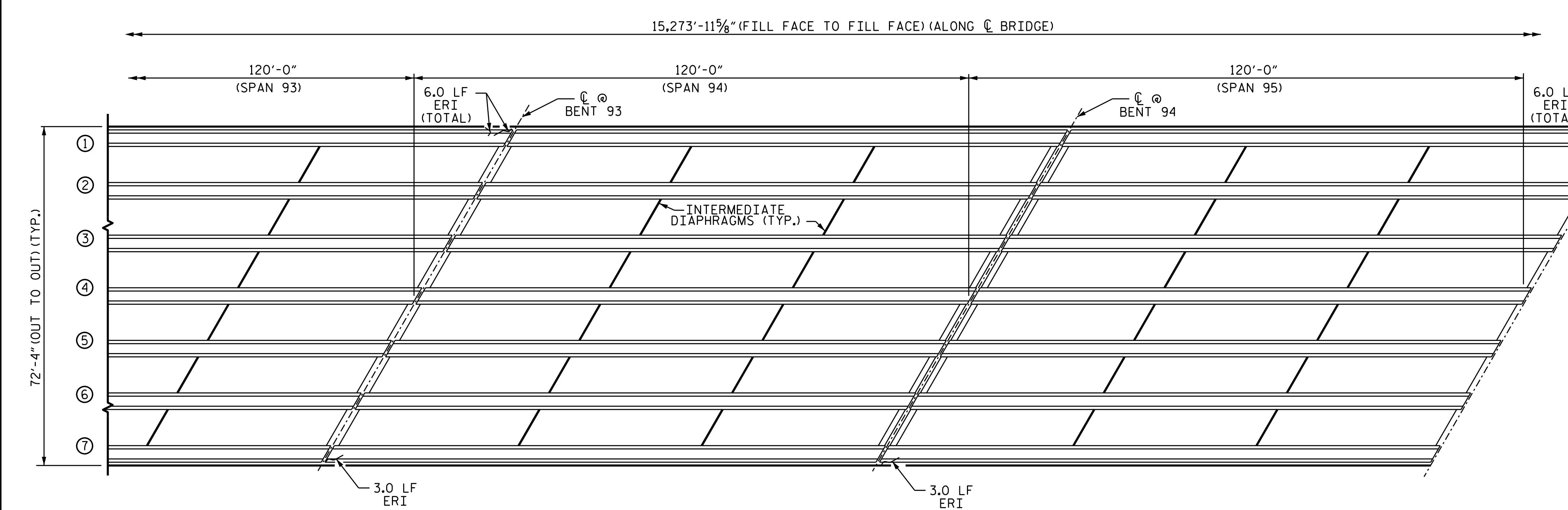
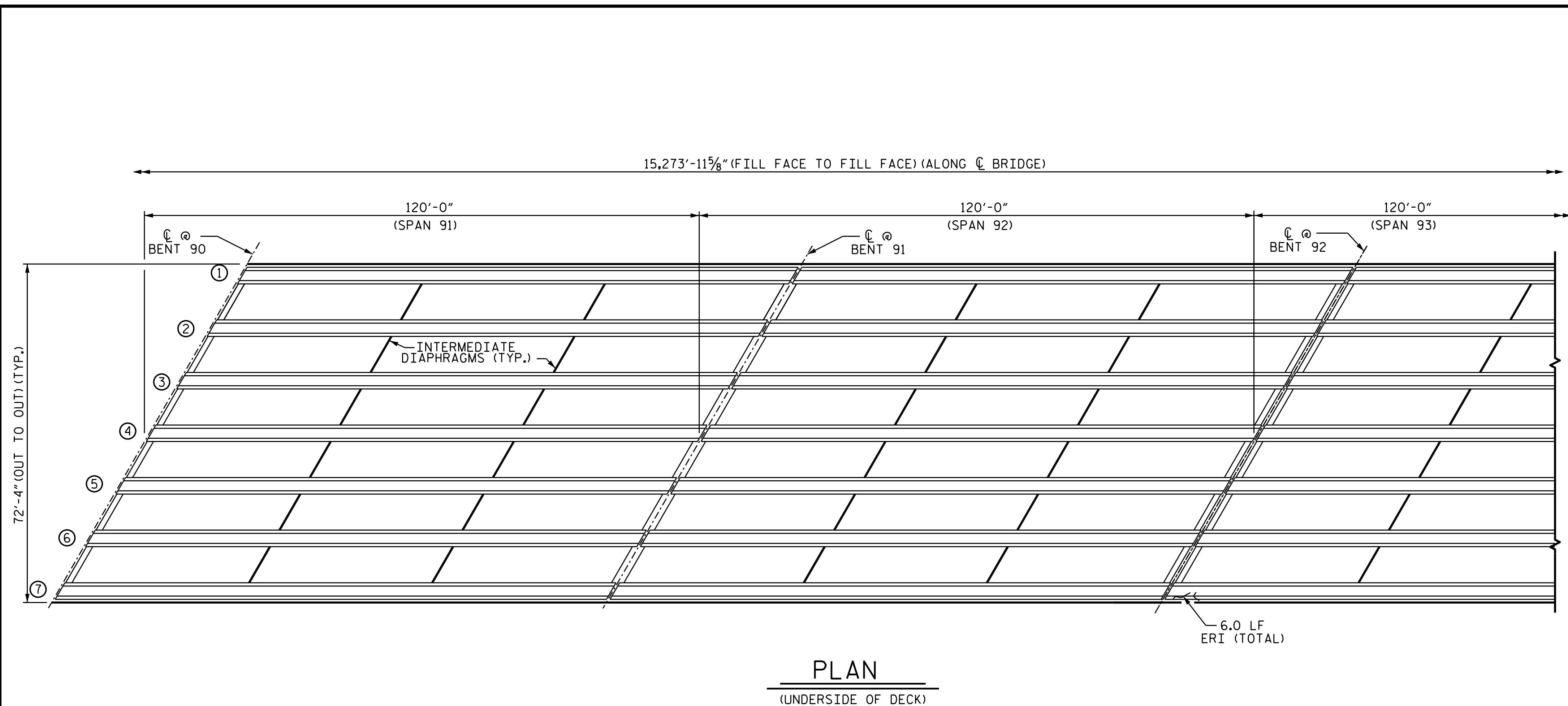


DECK UNDERSIDE
REPAIR
SPANS 86 THRU 90

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
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S-54
TOTAL SHEETS
217



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 GIRDERS	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	24.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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 GIRDERS, REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS ENDS, SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

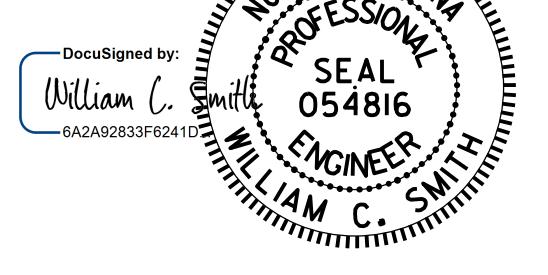
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 19 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE REPAIR SPANS 91 THRU 95

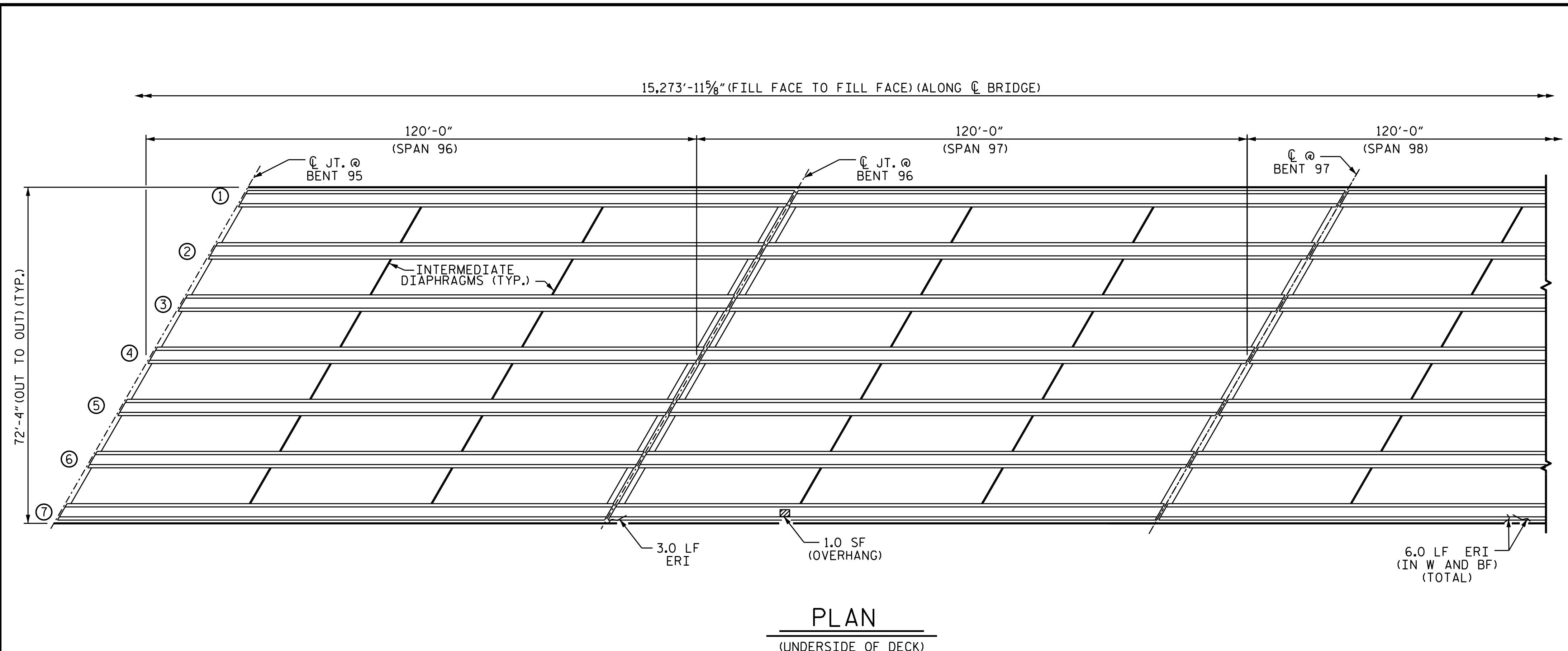


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PLAN
(UNDERSIDE OF DECK)

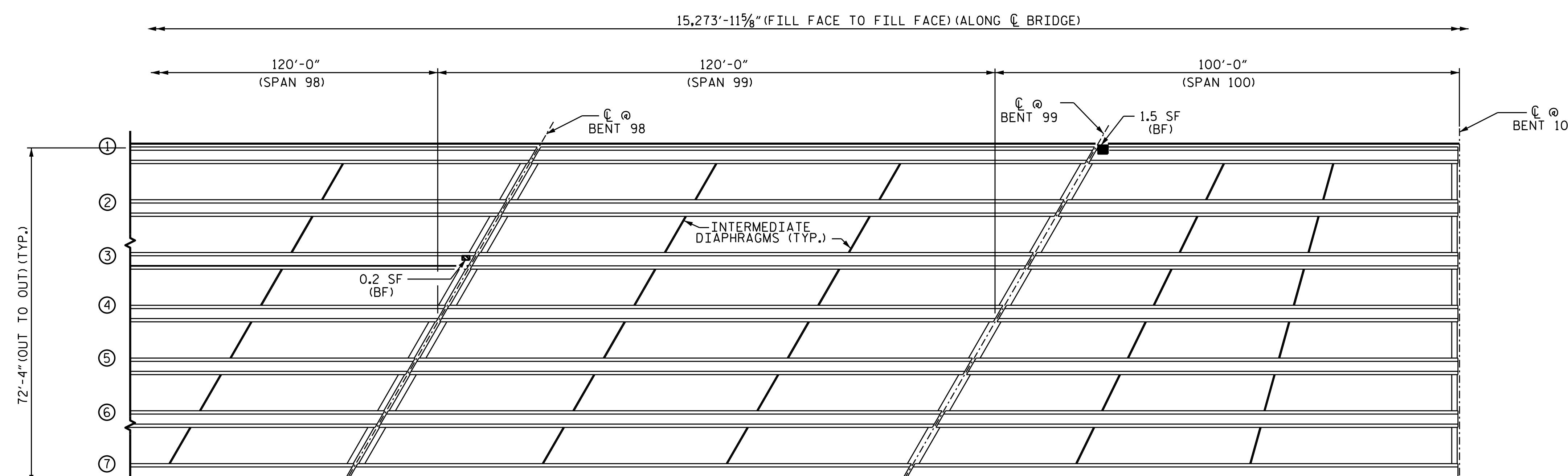
REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 96 THRU 100			
	ESTIMATE	ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	1.0	0.5	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	1.7	0.3	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	0.0		
OVERHANG	3.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS ENDS, SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.



PLAN
(UNDERSIDE OF DECK)

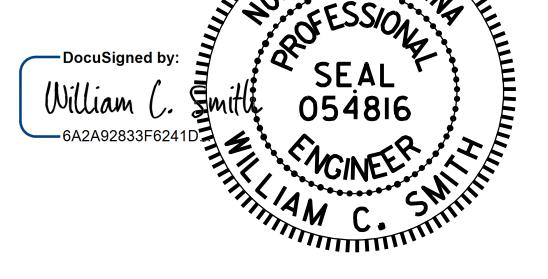
	SHOTCRETE REPAIRS
	CONCRETE REPAIRS
	PRESTRESSED CONCRETE GIRDERS REPAIRS
ERI	EPOXY RESIN INJECTIONS
TF	TOP OF FLANGE
BF	BOTTOM OF FLANGE
W	WEB
①	GIRDER NUMBER

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 96 THRU 100



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SHEET NO. S-56
TOTAL SHEETS 217

DRAWN BY : S. T. SANDOR/ H. AYTODA DATE : 09/26/24
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REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 101 THRU 105

	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 GIRDERS	4.0	1.2		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	3.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.
GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

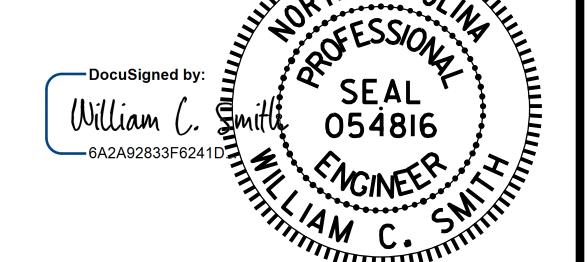
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 21 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

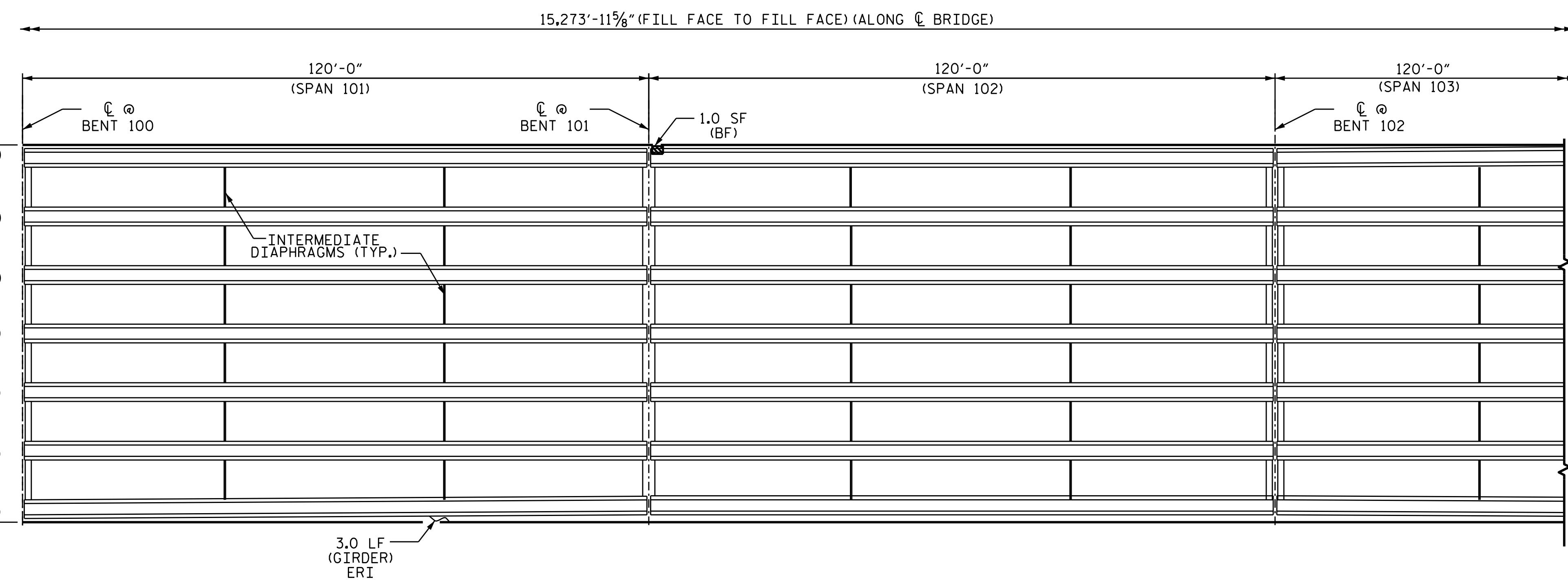
DECK UNDERSIDE REPAIR SPANS 101 THRU 105



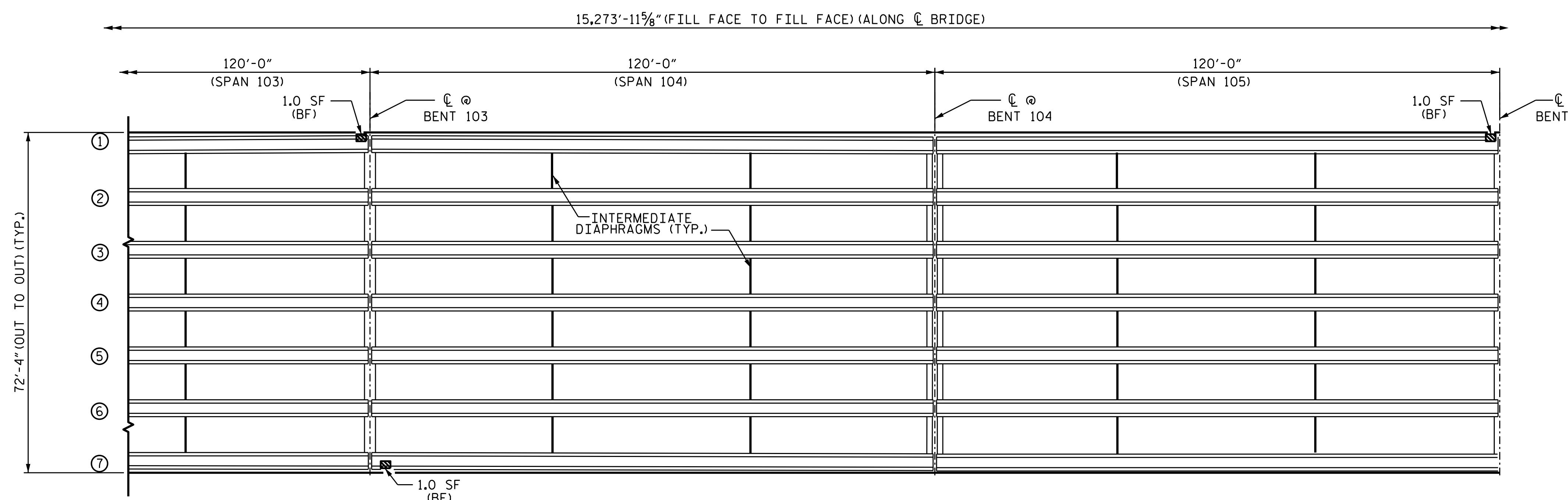
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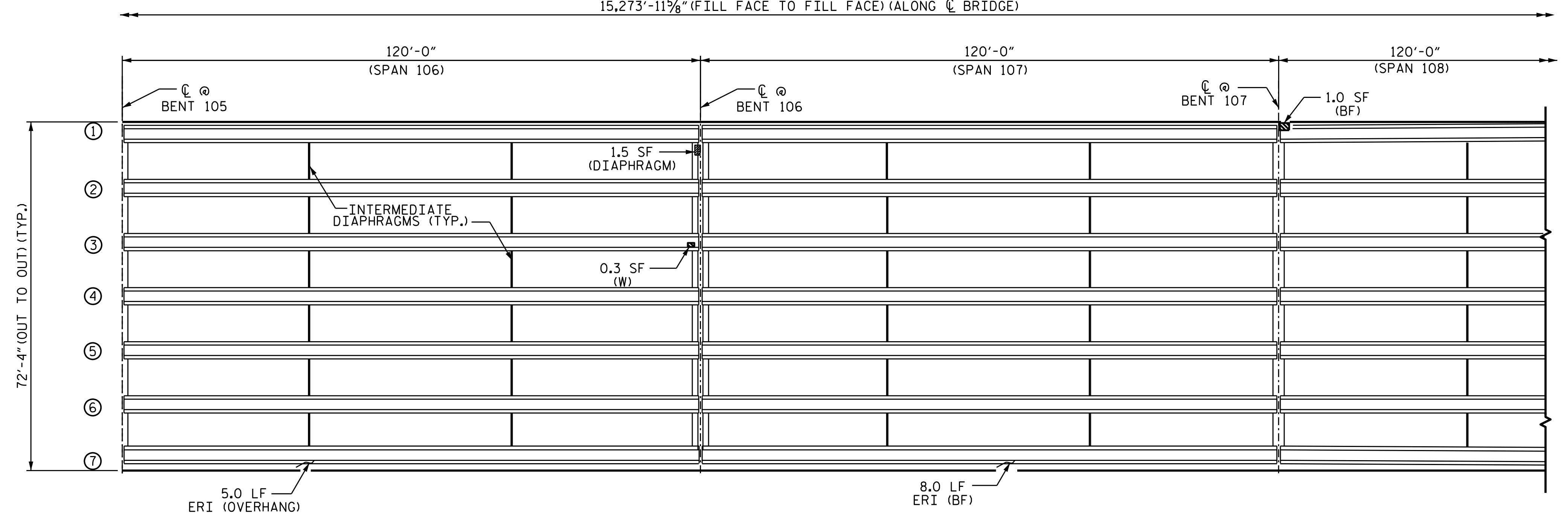


PLAN
(UNDERSIDE OF DECK)

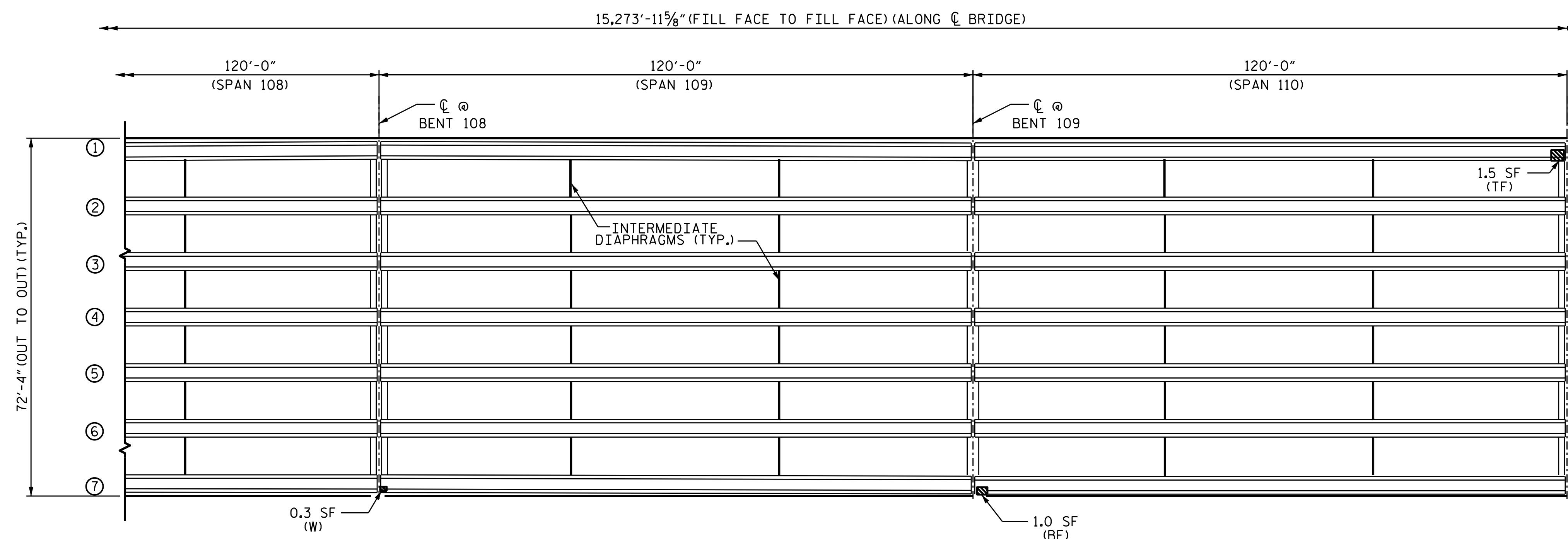


PLAN
(UNDERSIDE OF DECK)

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)

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

REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 106 THRU 110

	ESTIMATE	ACTUAL
SHOTCRETE REPAIRS	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.
UNDERSIDE OF DECK	0.0	0.0
OVERHANG	0.0	0.0
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDERS	4.1	2.1
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.
UNDERSIDE OF DECK	0.0	
OVERHANG	5.0	
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

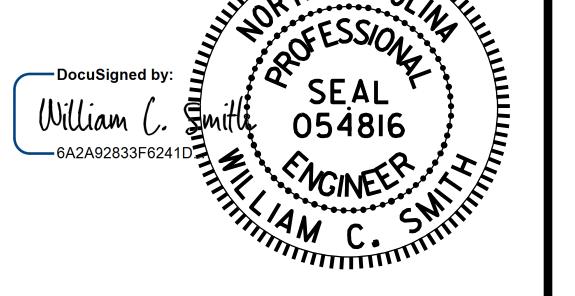
PROJECT NO. 15BPR.137
BEAUFORT COUNTY

BRIDGE NO. 060353

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE
REPAIR
SPANS 106 THRU 110



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NO.	BY:	DATE:	NO.	BY:
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2			4	

REVISIONS				
NO.	BY:	DATE:	NO.	BY:
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REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 111 AND 112

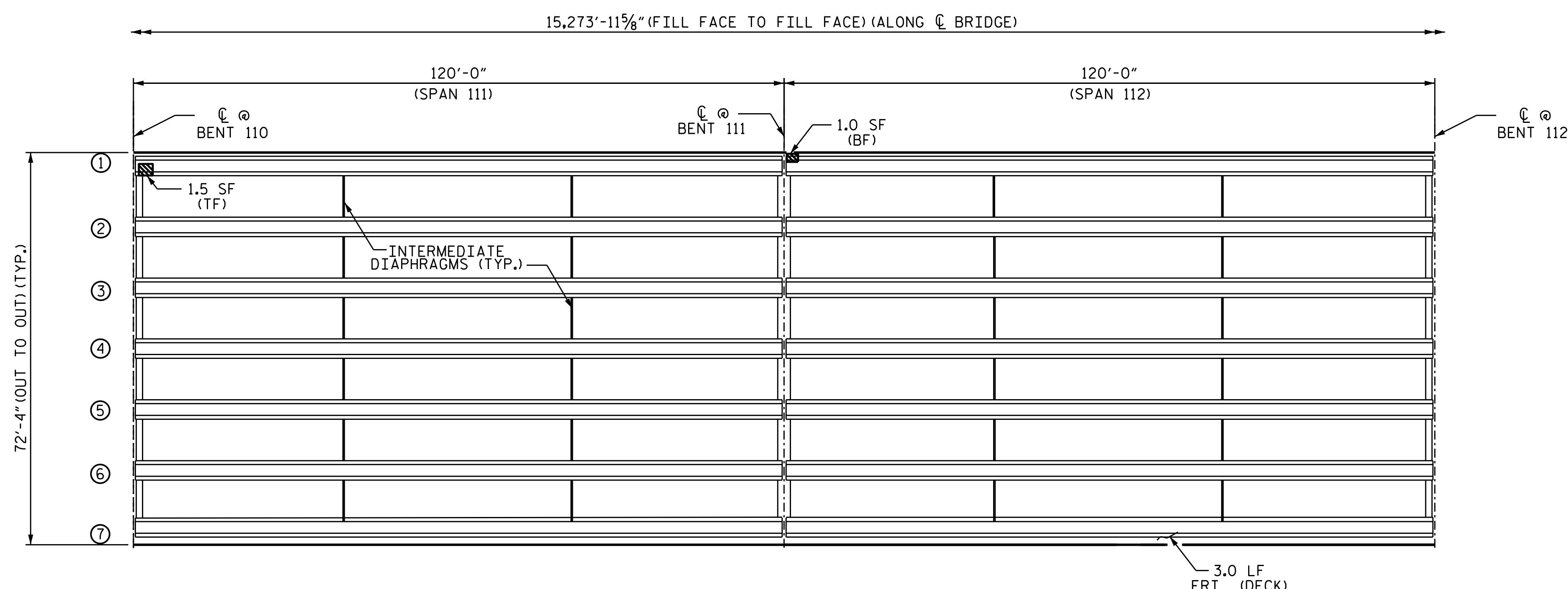
	ESTIMATE	ACTUAL
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0
OVERHANG	0.0	0.0
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.
UNDERSIDE OF DECK	0.0	0.0
OVERHANG	0.0	0.0
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.
PRESTRESSED CONCRETE GIRDERS	2.5	0.7
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.
UNDERSIDE OF DECK	3.0	
OVERHANG	0.0	
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS, REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS, SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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



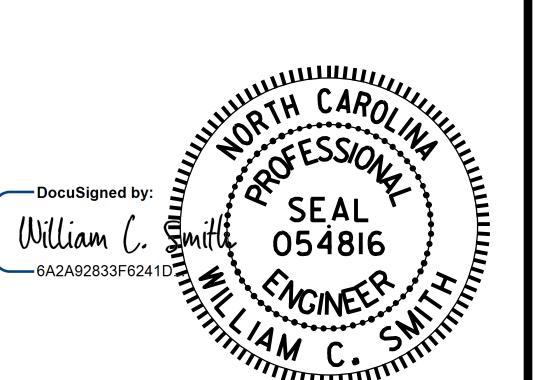
PLAN
(UNDERSIDE OF DECK)

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

SHEET 23 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE REPAIR SPANS 111 AND 112

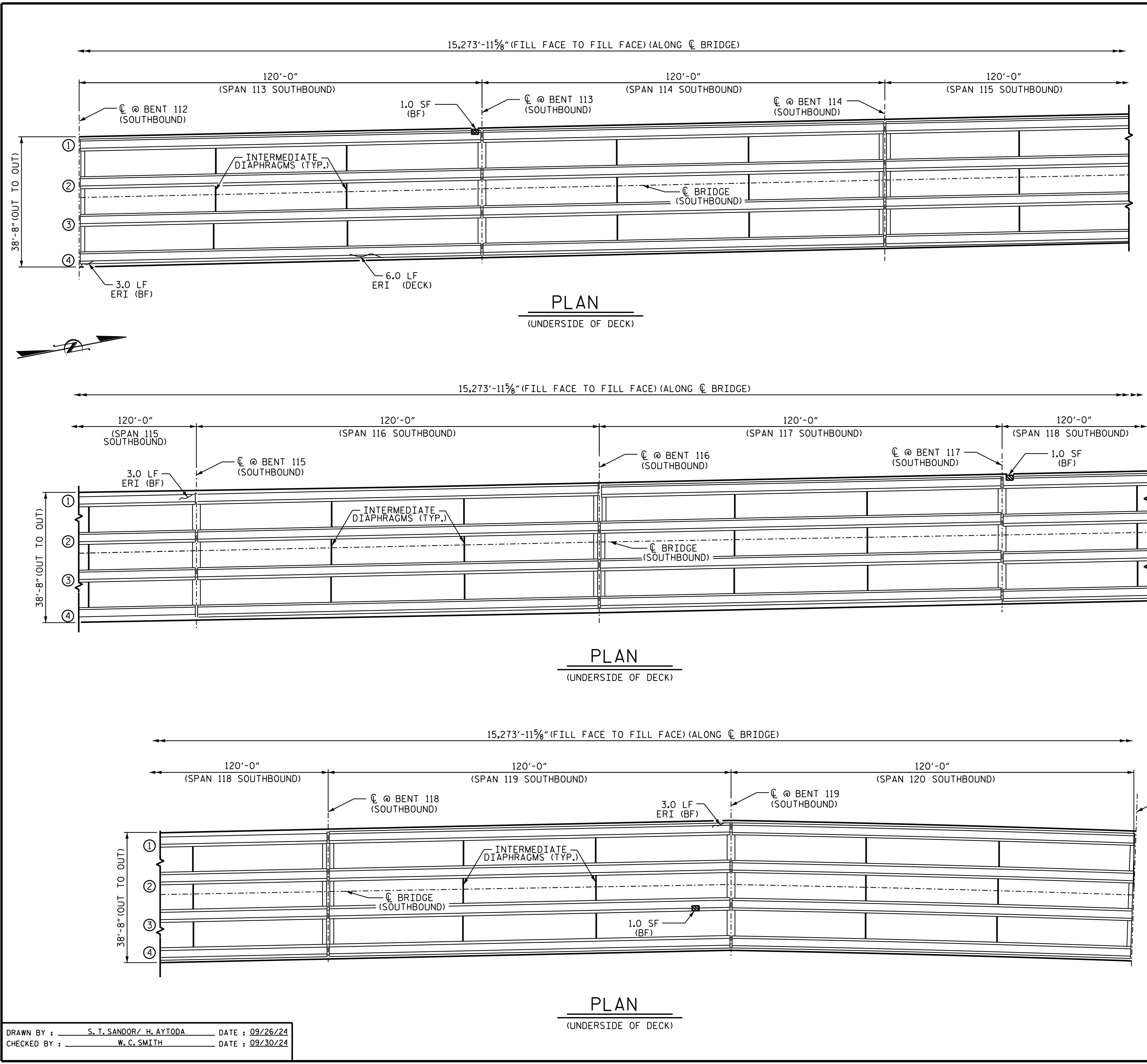


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TOTAL SHEETS
217



REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPANS 113 THRU 120			
	ESTIMATE	ACTUAL	
SHOTCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
CONCRETE REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
UNDERSIDE OF DECK	0.0	0.0	
OVERHANG	0.0	0.0	
GIRDER REPAIRS	AREA SQ. FT.	VOLUME CU. FT.	AREA SQ. FT.
PRESTRESSED CONCRETE GIRDERS	3.0	0.9	
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.	
UNDERSIDE OF DECK	6.0		
OVERHANG	0.0		
PRESTRESSED CONCRETE GIRDERS	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

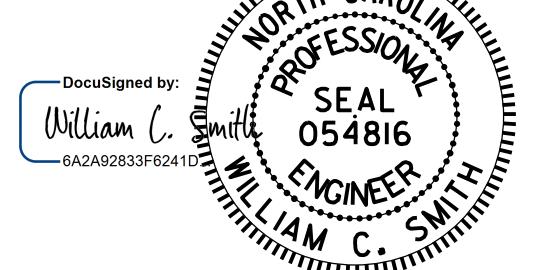
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BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 24 OF 29

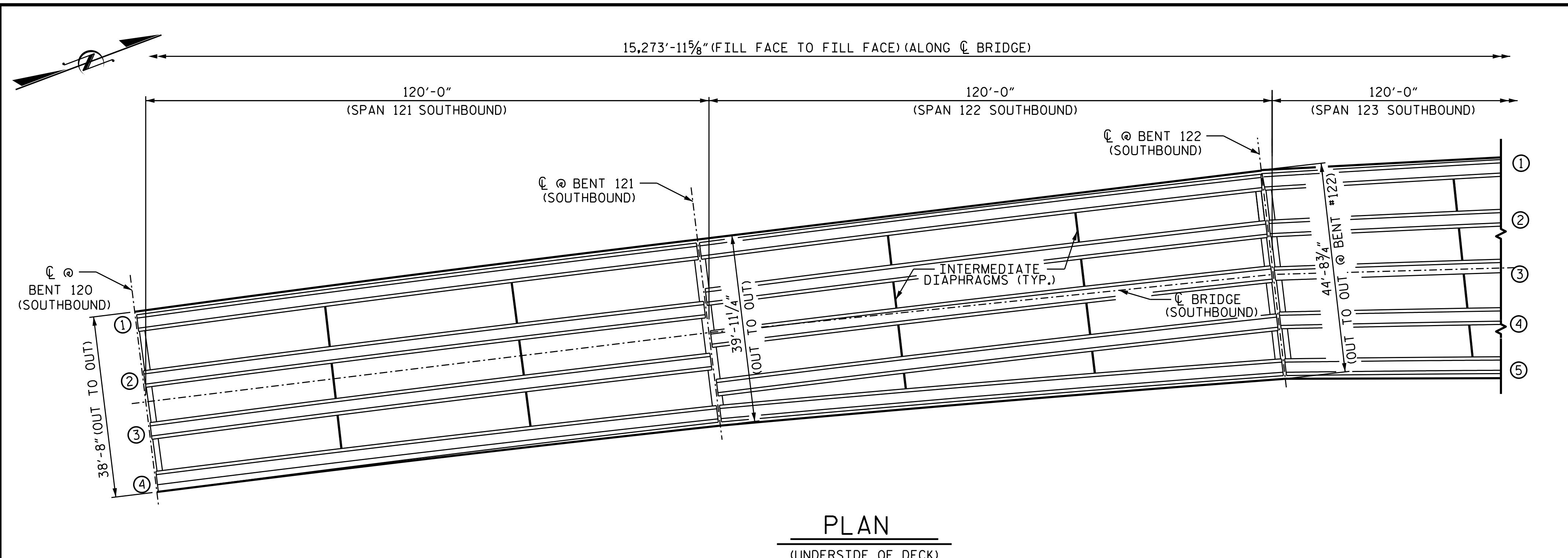
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE
REPAIR
SPANS 113 THRU 120
SOUTHBOUND



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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 GIRDERS	0.0	0.0		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	3.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS ENDS, SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

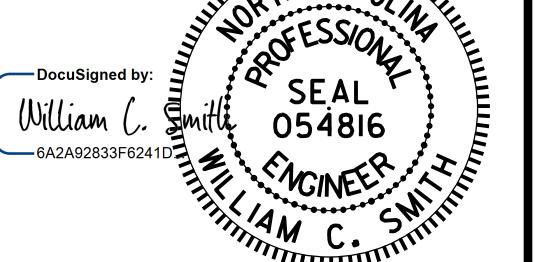
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BRIDGE NO. 060353

SHEET 25 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE REPAIR SPANS 121 THRU 125 SOUTHBOUND



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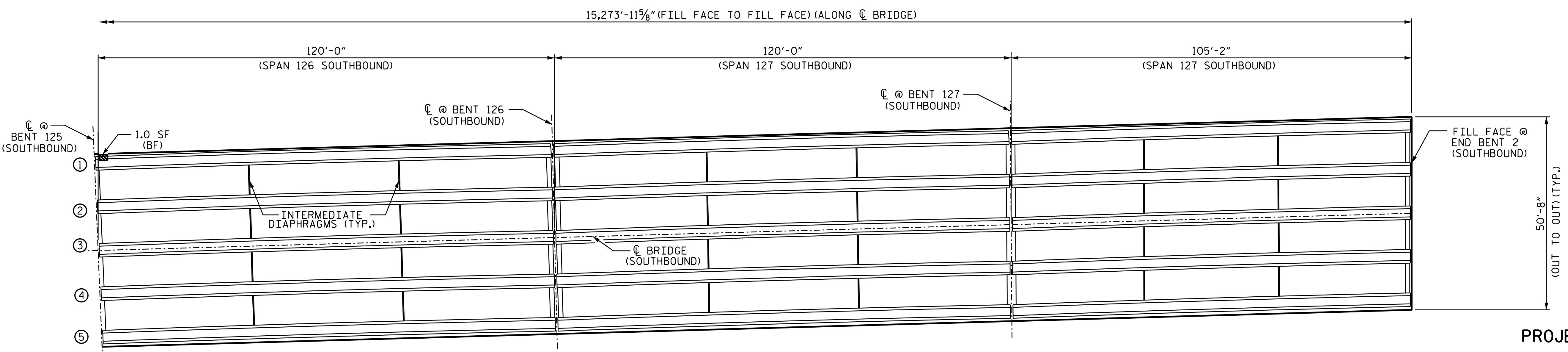
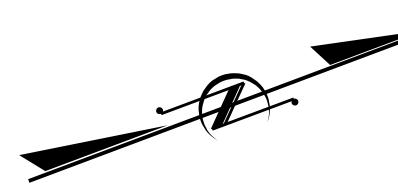
NOTES

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

REPAIR QUANTITY TABLE

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



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BEAUFORT COUNTY

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGHDECK UNDERSIDE
REPAIR
SPANS 126 THRU 128
SOUTHBOUND

- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDERS REPAIRS

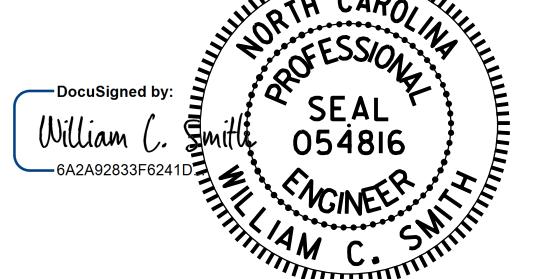
ERI EPOXY RESIN INJECTIONS

TF TOP OF FLANGE

BF BOTTOM OF FLANGE

W WEB

① GIRDER NUMBER



11/21/2025

PLAN
(UNDERSIDE OF DECK)

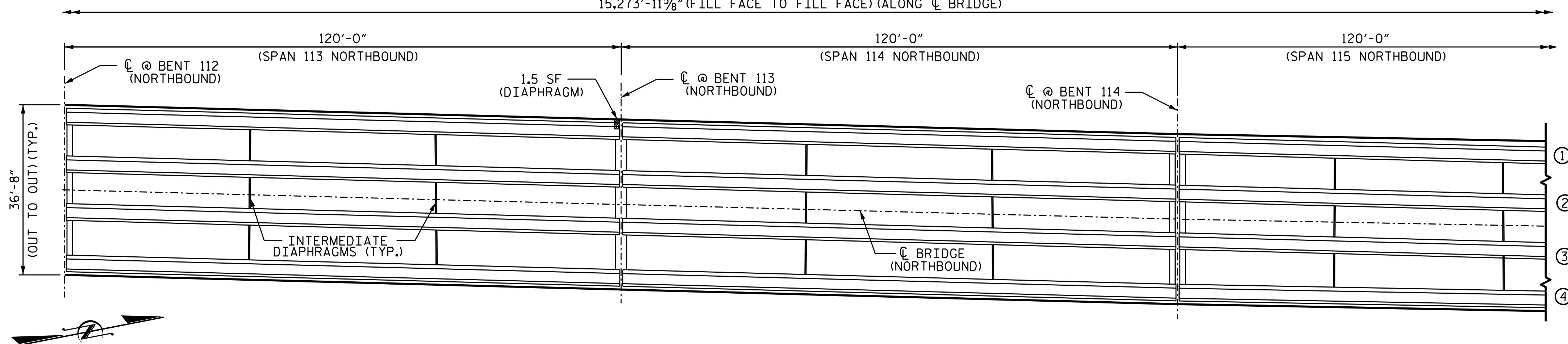
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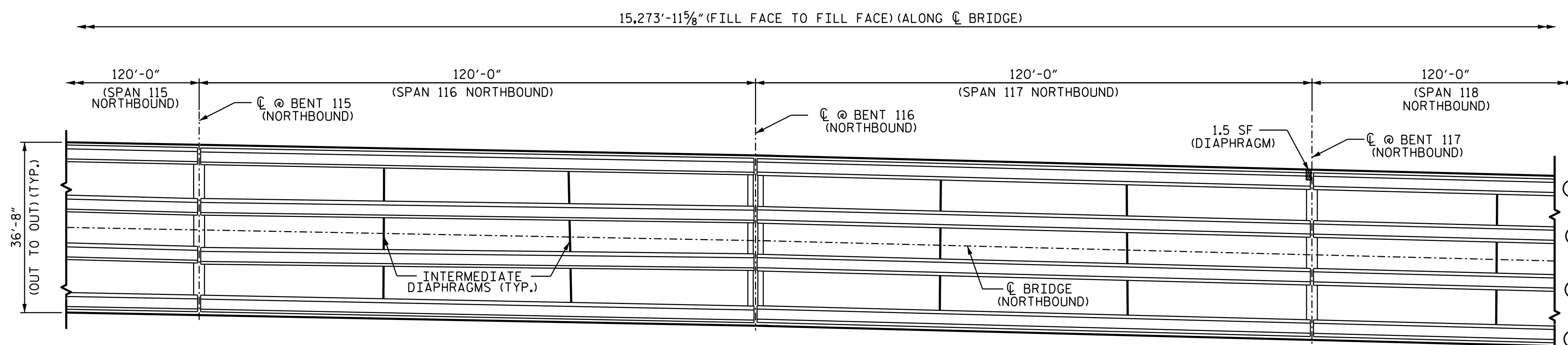
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REVISIONS		SHEET NO.	
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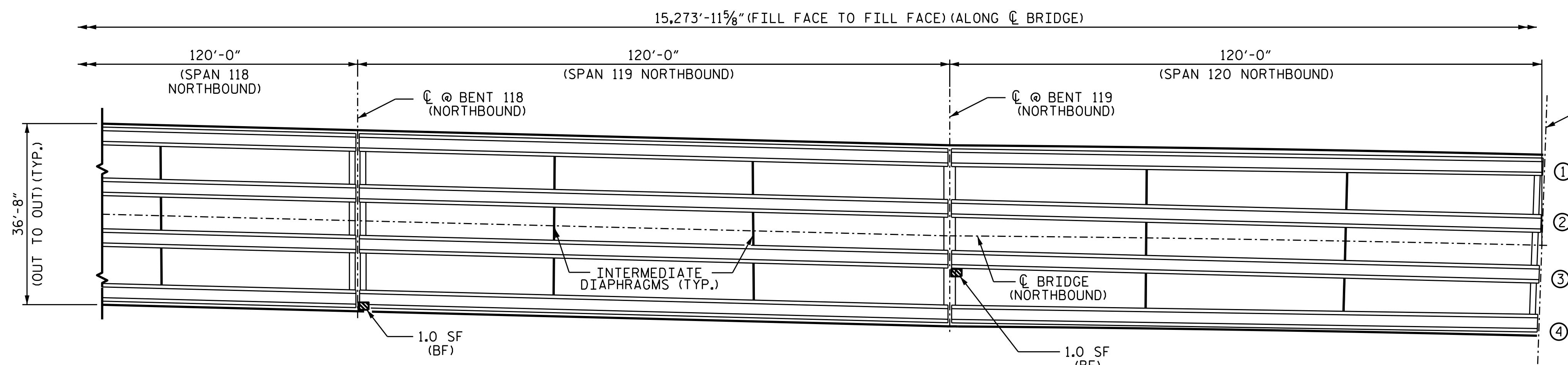
15,273'-11 1/8" (FILL FACE TO FILL FACE) (ALONG C BRIDGE)



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)



PLAN
(UNDERSIDE OF DECK)

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REPAIR QUANTITY TABLE

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

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 GIRDERS REPAIR DETAILS AND LIMITS OF EPOXY COATING CONCRETE GIRDERS SEE PRESTRESSED CONCRETE GIRDERS REPAIR DETAILS SHEET.

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

PROJECT NO. 15BPR.137

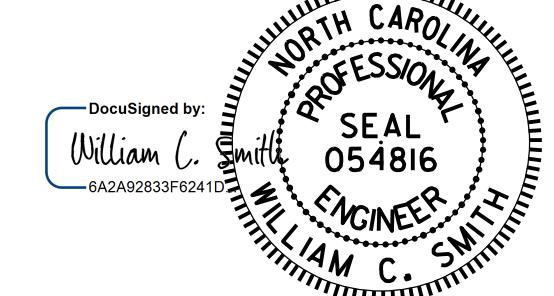
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 27 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE
REPAIR
SPANS 113 THRU 120
NORTHBOUND



11/21/2025

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1			3	
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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 GIRDERS	2.0	0.6		
EPOXY RESIN INJECTION	ESTIMATE LIN. FT.	ACTUAL LIN. FT.		
UNDERSIDE OF DECK	0.0			
OVERHANG	0.0			
PRESTRESSED CONCRETE GIRDERS	0.0			
EPOXY COATING	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.	AREA SQ. FT.
GIRDERS	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 GIRDERS REPAIRS
ERI	EPOXY RESIN INJECTIONS
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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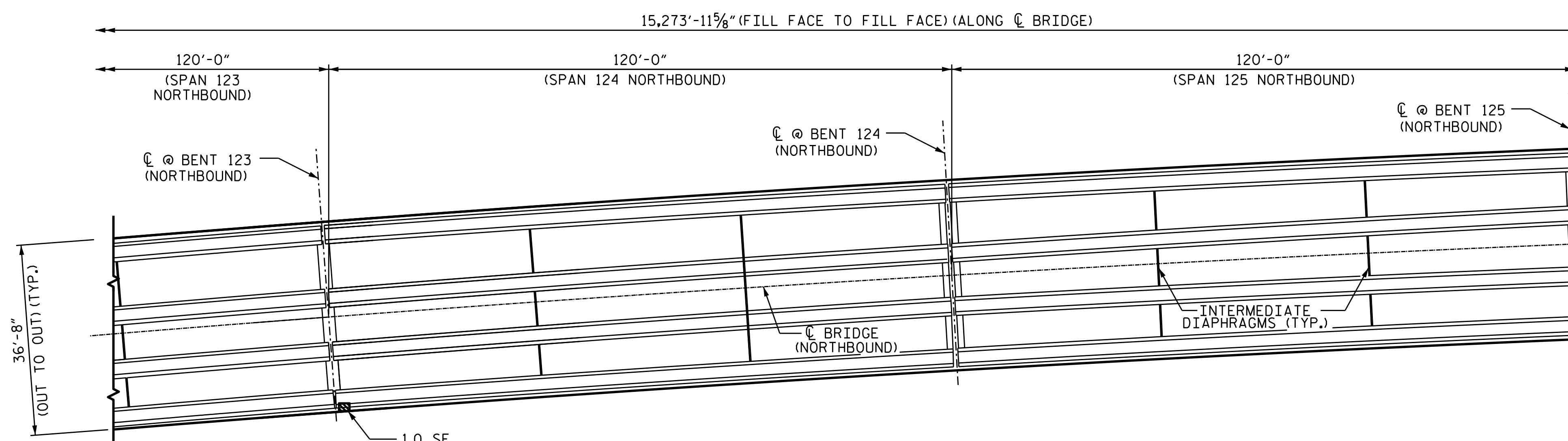
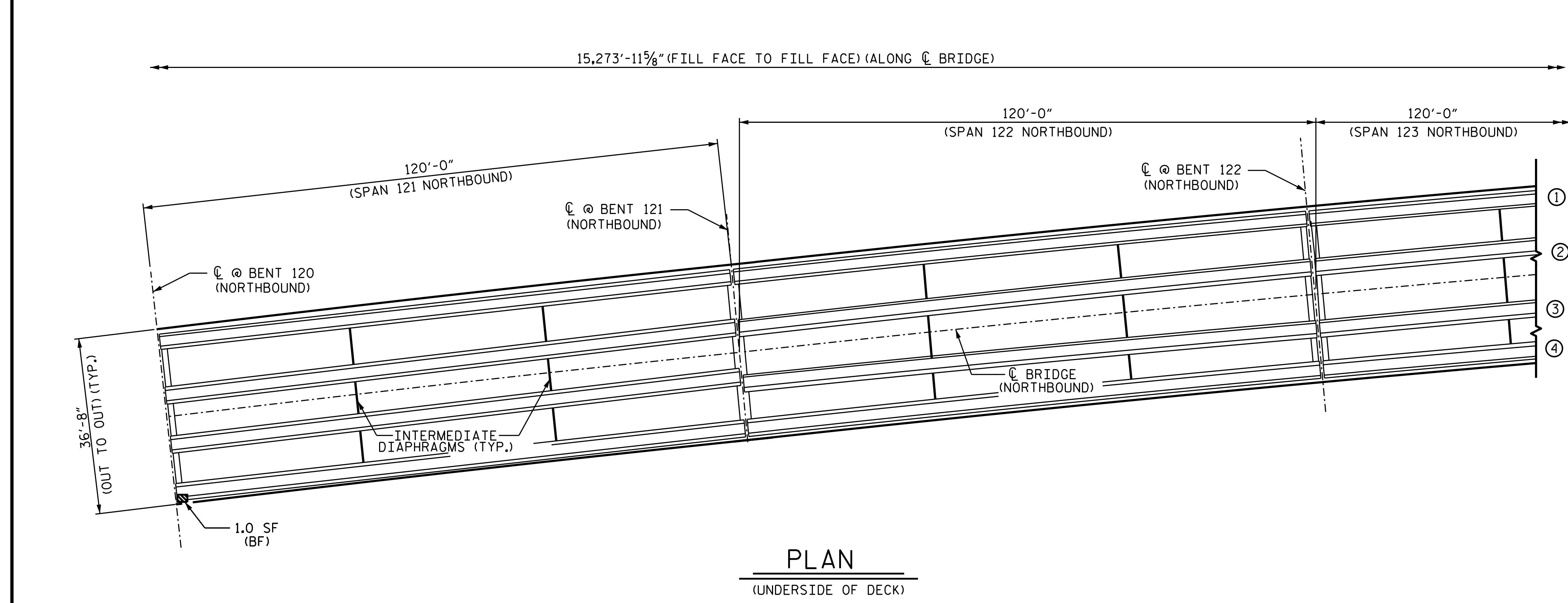
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK UNDERSIDE
REPAIR
SPANS 121 THRU 125
NORTHBOUND



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217



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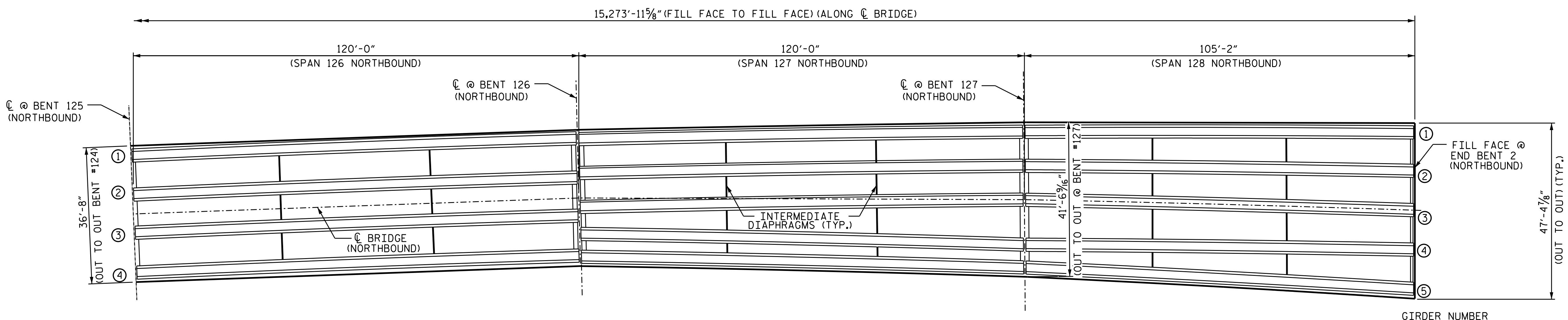
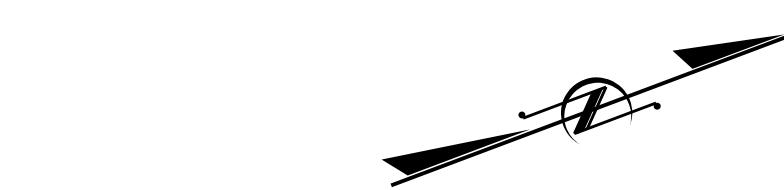
NOTES

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		
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	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)

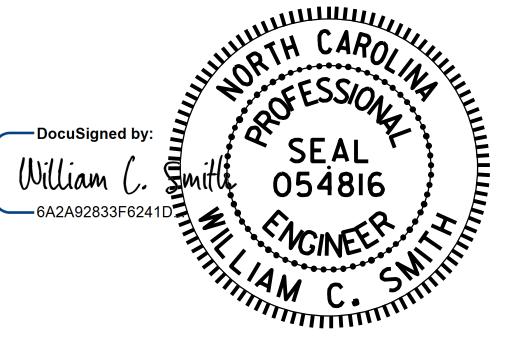
- SHOTCRETE REPAIRS
- CONCRETE REPAIRS
- PRESTRESSED CONCRETE GIRDER REPAIRS
- ERI EPOXY RESIN INJECTIONS
- TF TOP OF FLANGE
- BF BOTTOM OF FLANGE
- W WEB
- GIRDER NUMBER

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BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 29 OF 29

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGHDECK UNDERSIDE
REPAIR
SPANS 126 THRU 128
NORTHBOUND

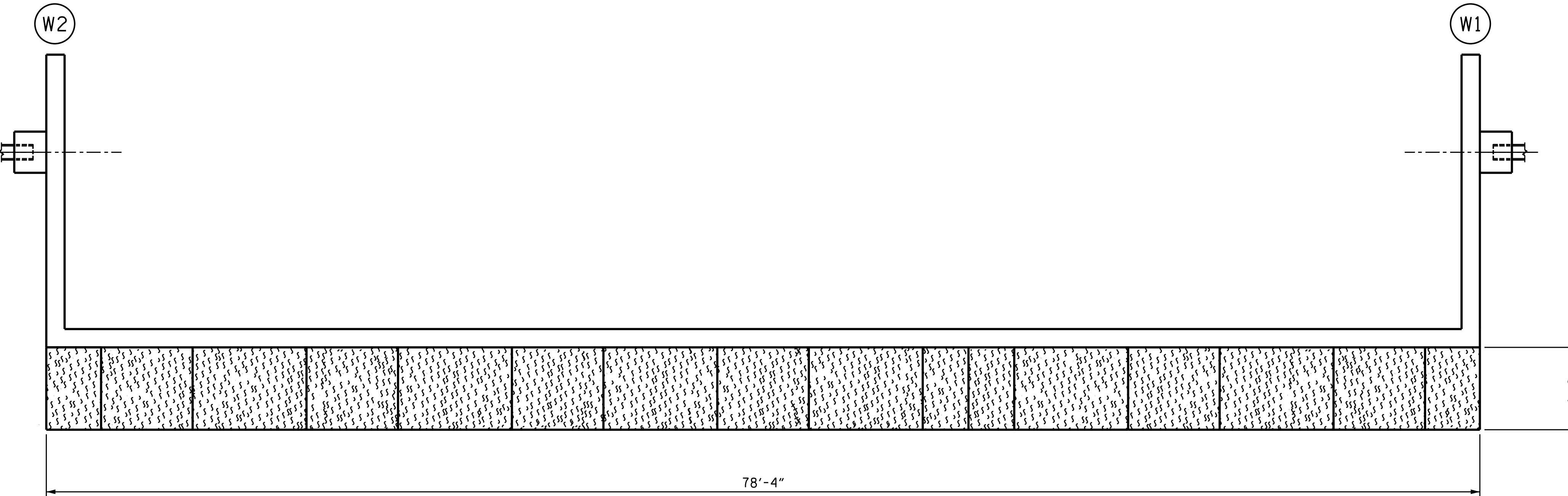
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REVISIONS
SHEET NO.
S-65
TOTAL SHEETS
217

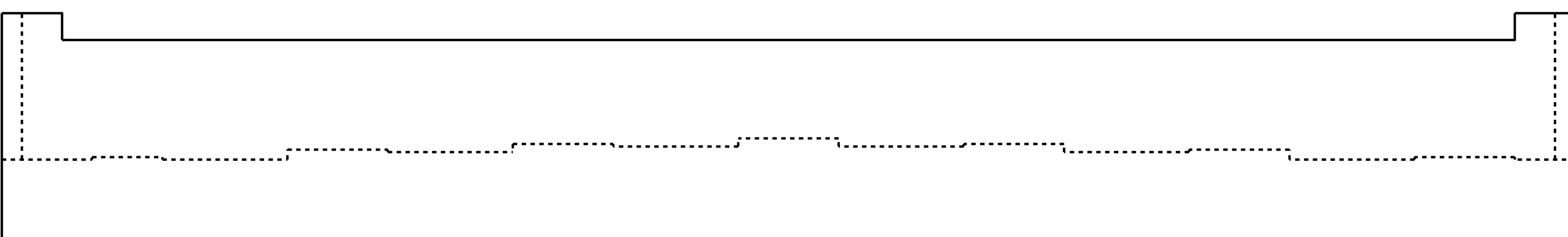


REPAIR QUANTITY TABLE

END BENT 1	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR				
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.

PLAN

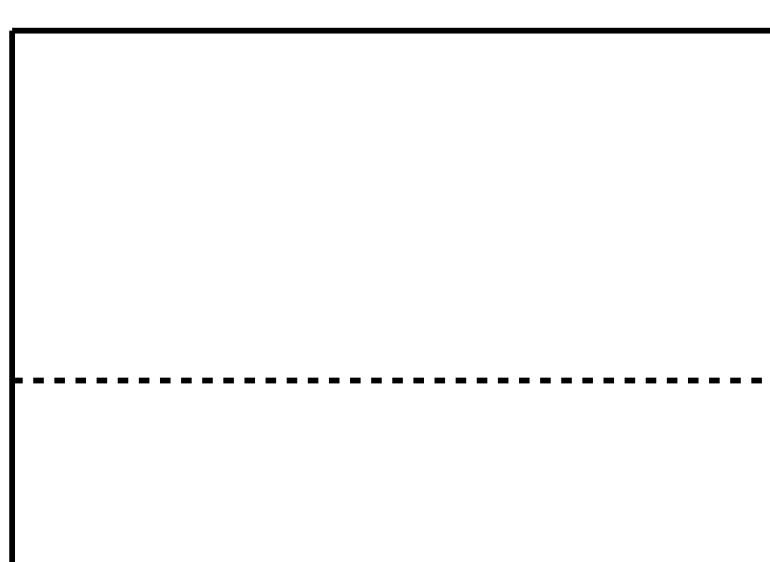


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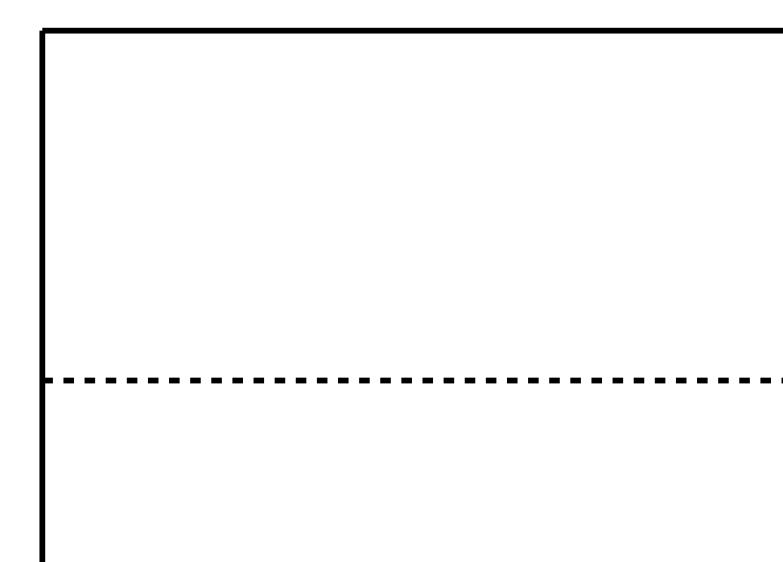
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

STEEL PILES NOT VISIBLE AT TIME OF INSPECTION.

ELEVATION



FRONT VIEW OF W2



FRONT VIEW OF W1

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

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

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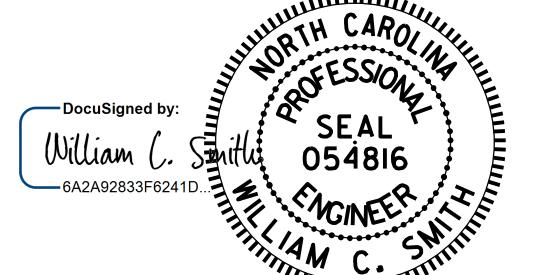
SHEET 1 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE

END BENT 1

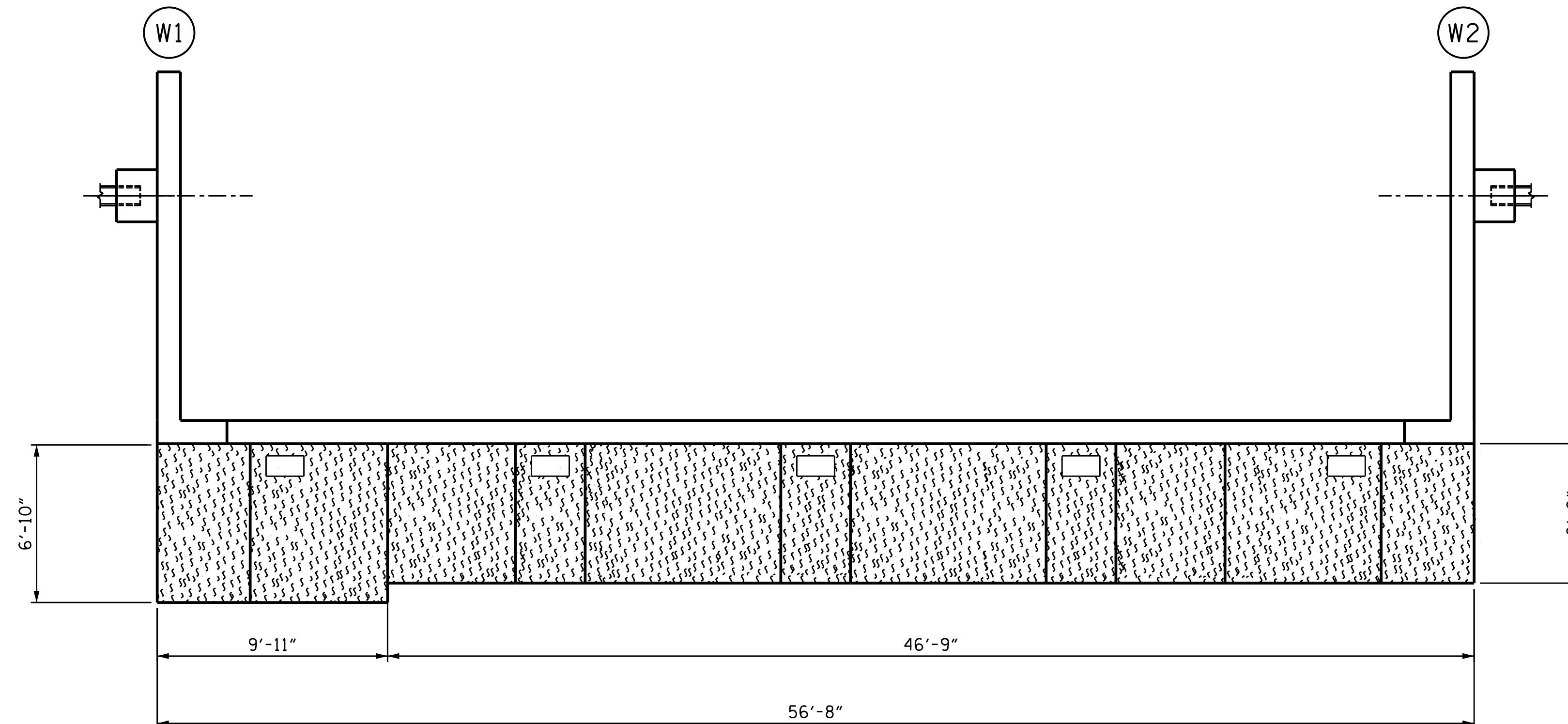


11/21/2025

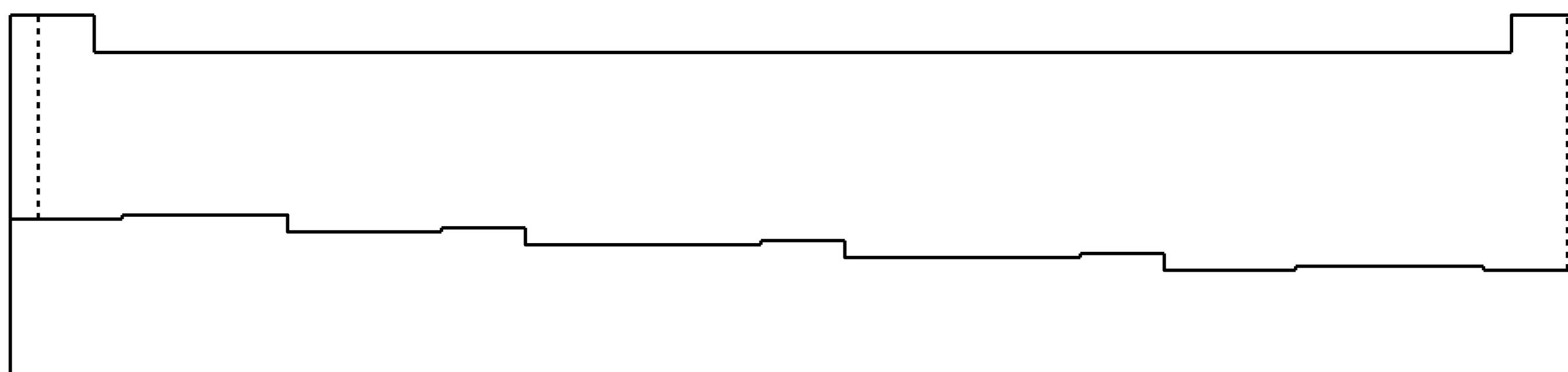
REVISIONS					SHEET NO.	
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SIGNATURES COMPLETED

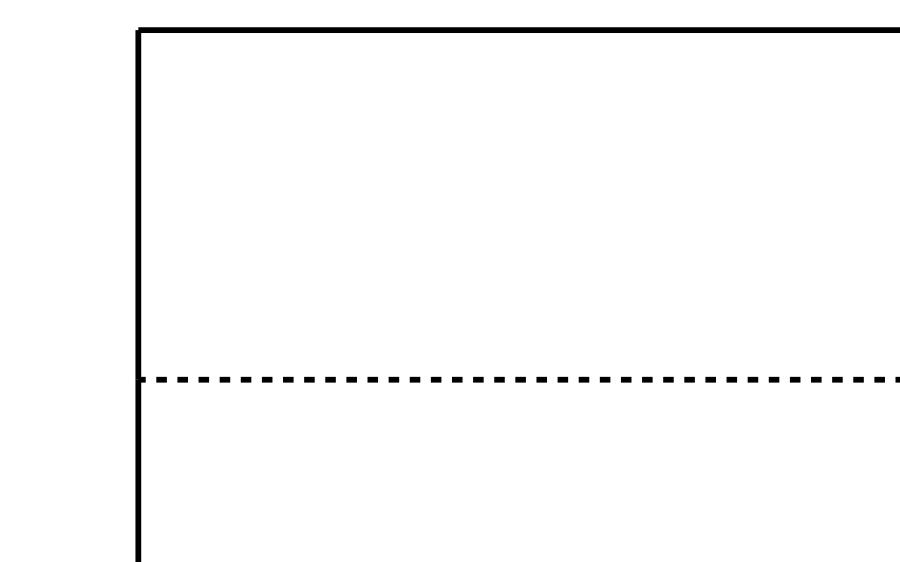
DRAWN BY : S. T. SANDOR DATE : 5/01/24
CHECKED BY : W. C. SMITH DATE : 5/07/24



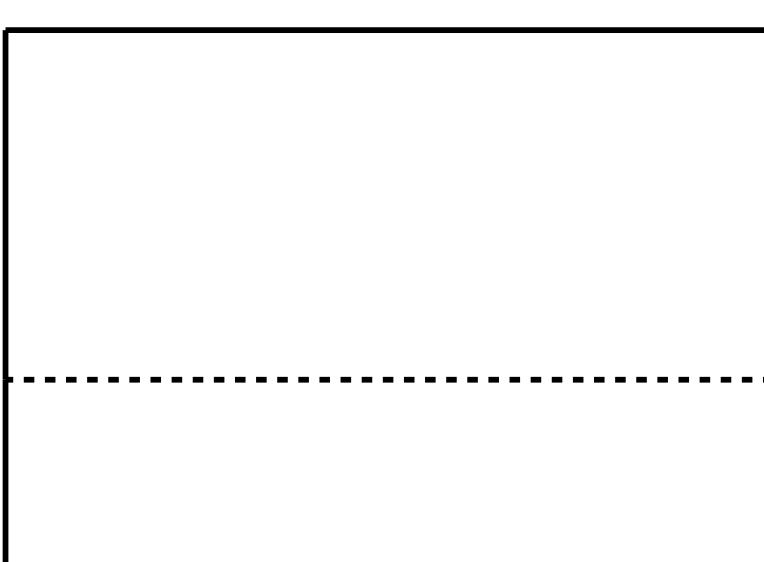
PLAN



ELEVATION



FRONT VIEW OF W1



FRONT VIEW OF W2

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

REPAIR QUANTITY TABLE

END BENT 2 (SOUTHBOUND)	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR				
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

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

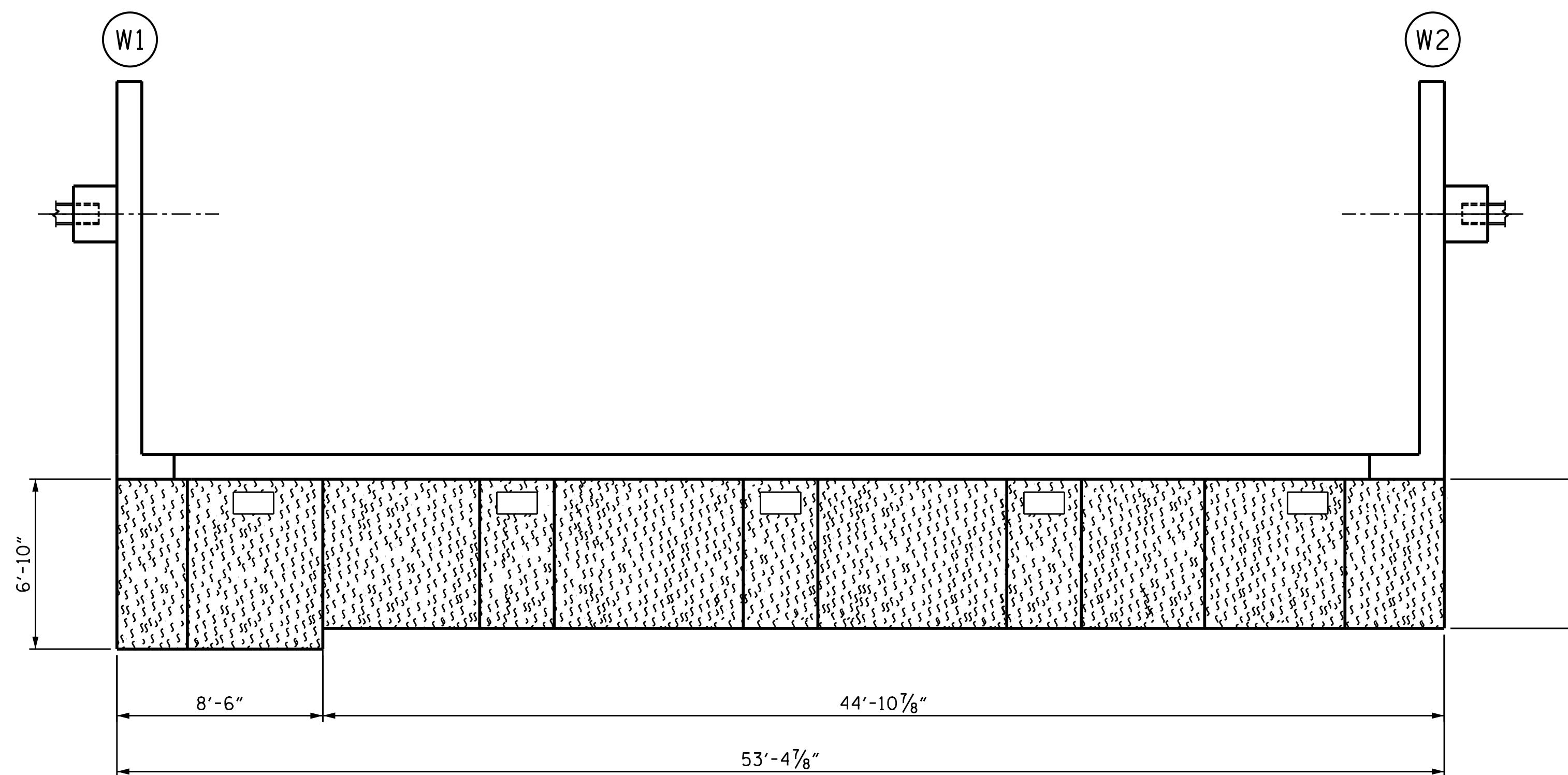
END BENT 2
(SOUTHBOUND)



REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-67
1			3			
2			4			

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SIGNATURES COMPLETED

TOTAL SHEETS
217



PLAN

REPAIR QUANTITY TABLE

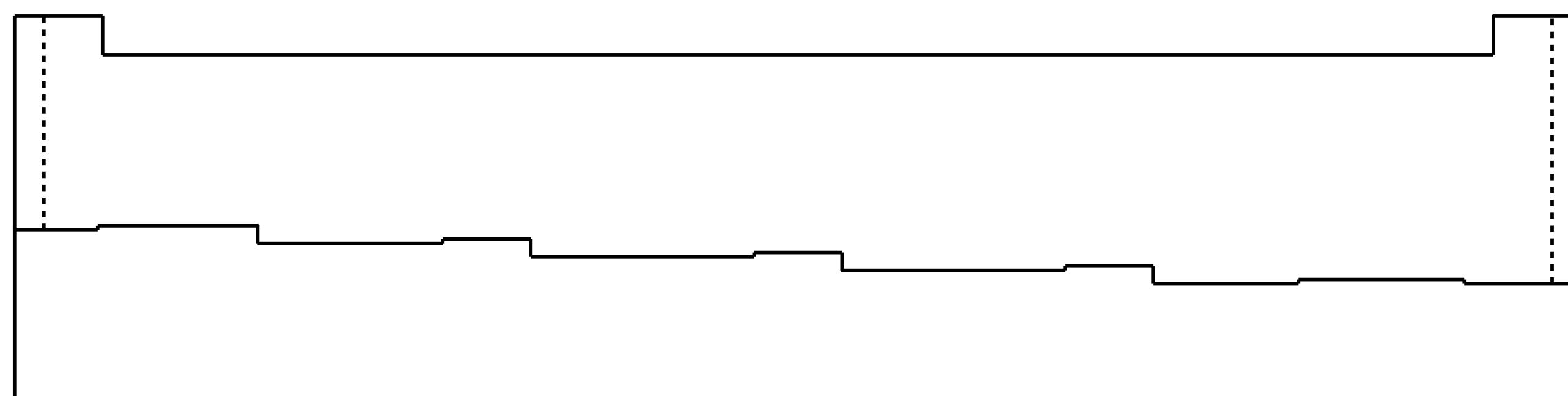
END BENT 2 (NORTHBOUND)	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
EPOXY RESIN INJECTION		LF		LF
CAP		0.0		
EPOXY COATING AND DEBRIS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

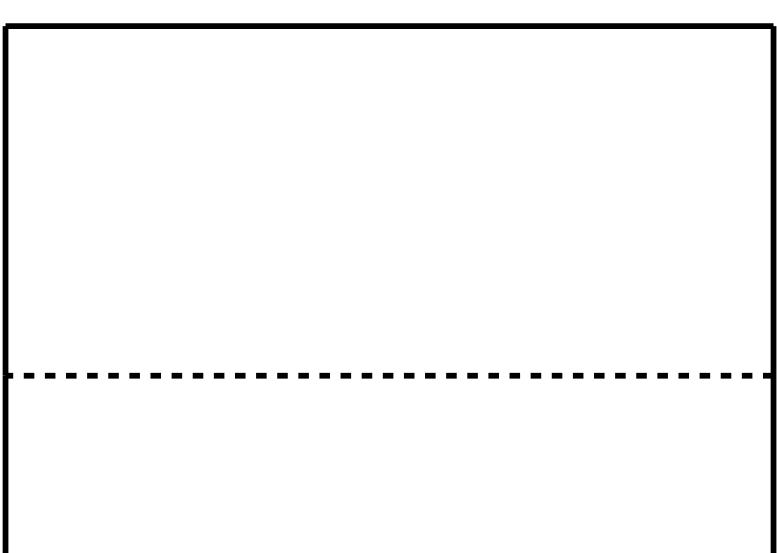
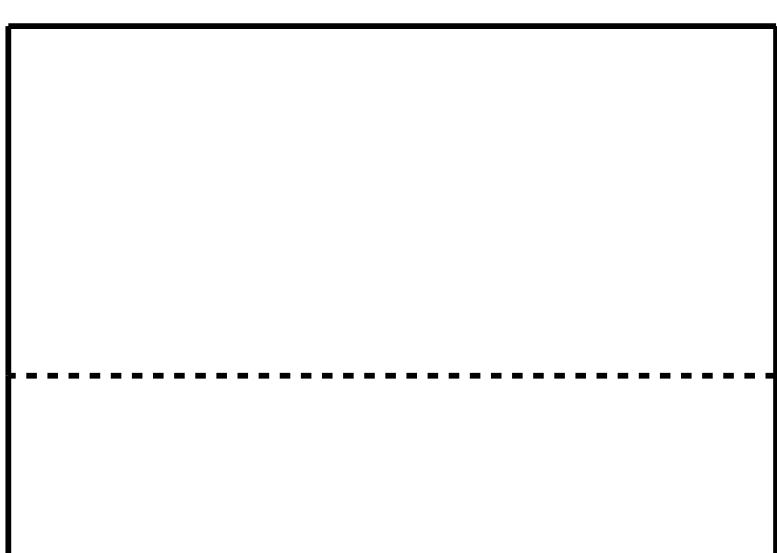
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

STEEL PILES NOT VISIBLE AT TIME OF INSPECTION.



- ▨ SHOTCRETE REPAIR
- ▨ CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- (P) PILE
- ▨ EPOXY COATING

ELEVATION



FRONT VIEW OF W1

FRONT VIEW OF W2

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

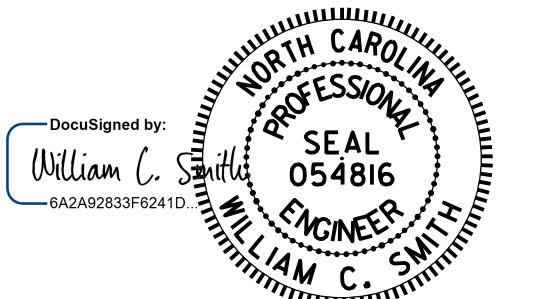
BRIDGE NO. 060353

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 2
(NORTHBOUND)

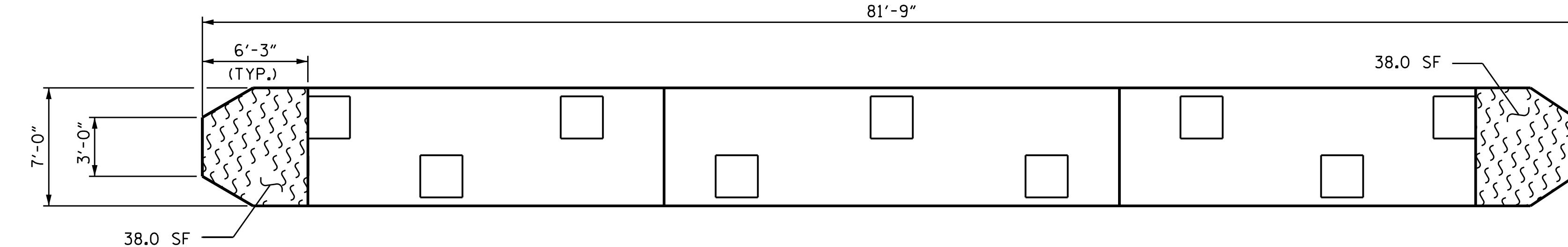
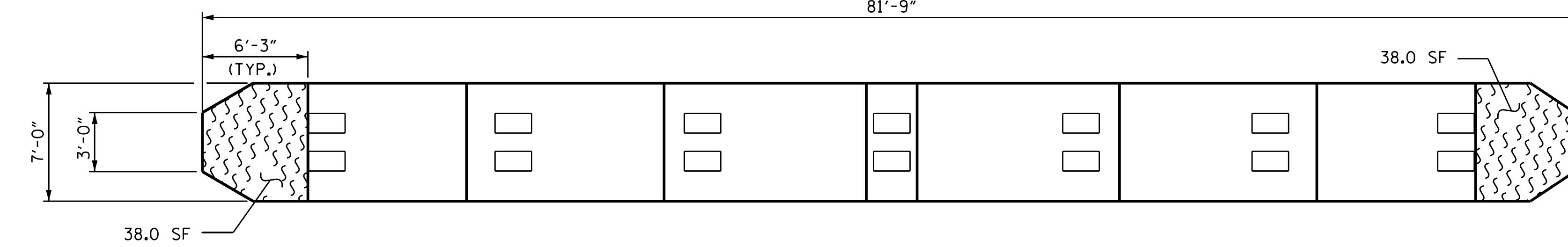


11/21/2025

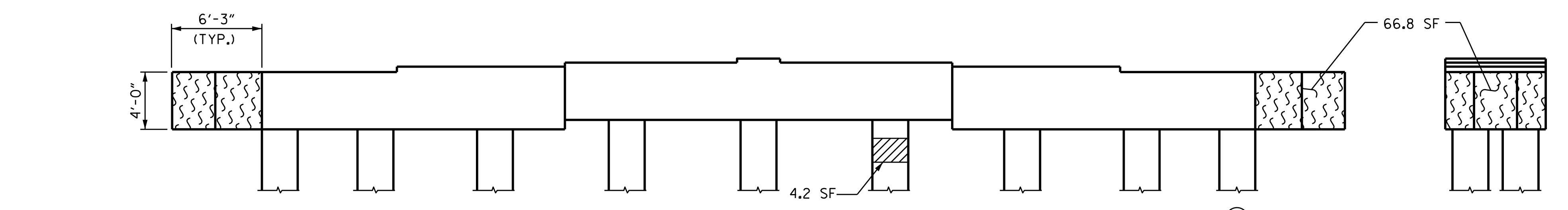
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2			4			

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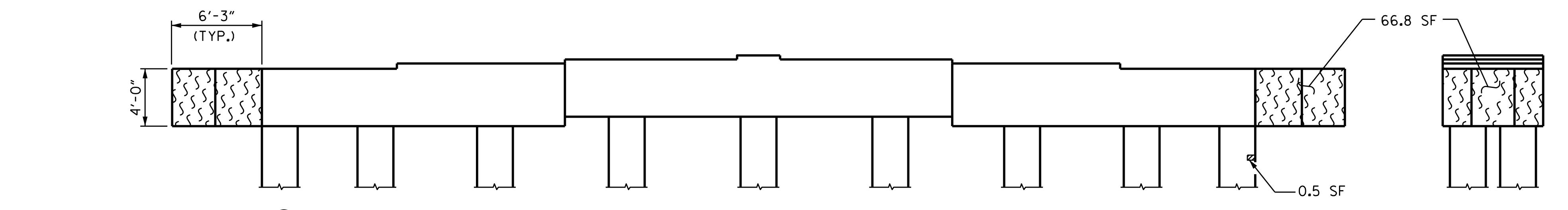
DRAWN BY : S. T. SANDOR DATE : 5/01/24
CHECKED BY : W. C. SMITH DATE : 5/07/24



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 1	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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	4.7	2.4		
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	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.

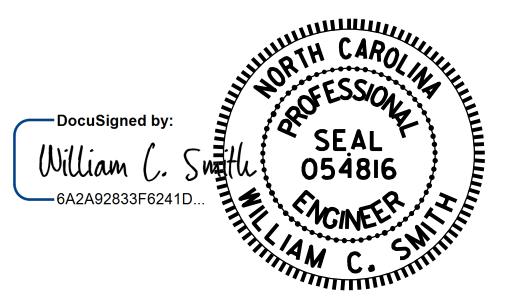
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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

SHEET 1 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 1



11/21/2025

REVISIONS		SHEET NO.				
NO.	BY:	DATE:	NO.	BY:	DATE:	S-69
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2			4			

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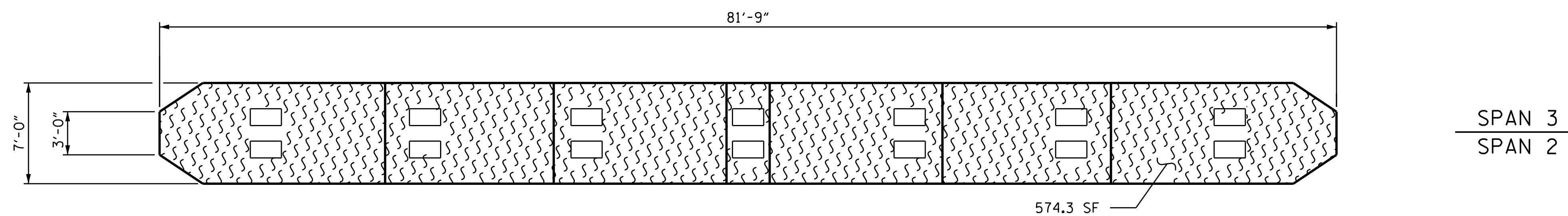
TOTAL SHEETS
217

REPAIR QUANTITY TABLE

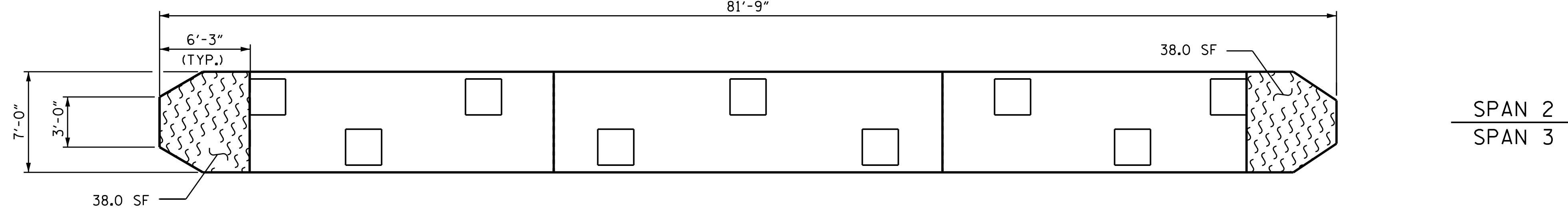
BENT 2	QUANTITIES		AREA SF	VOLUME CF
	ESTIMATE	ACTUAL		
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.5	0.3		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION	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.

TOP VIEW OF CAP

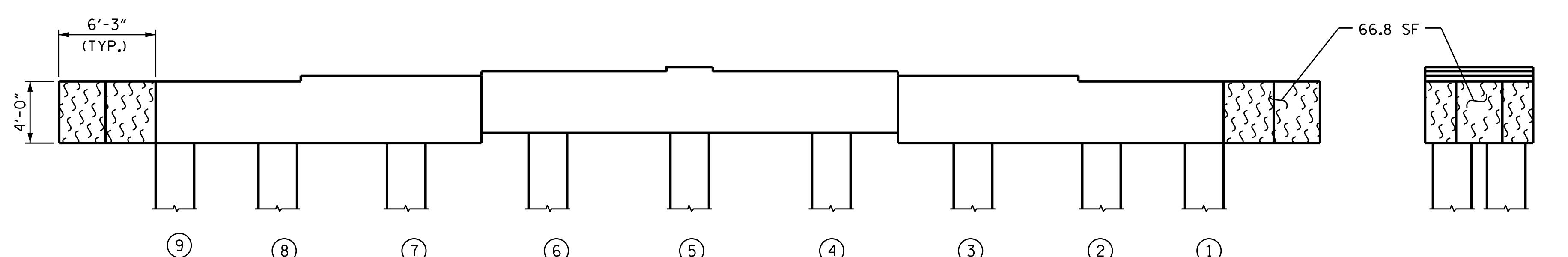
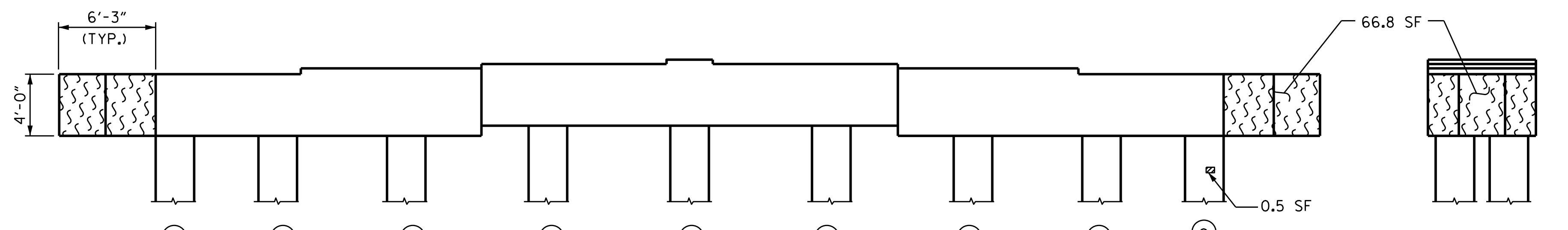


BOTTOM VIEW OF CAP



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 2 OF 140

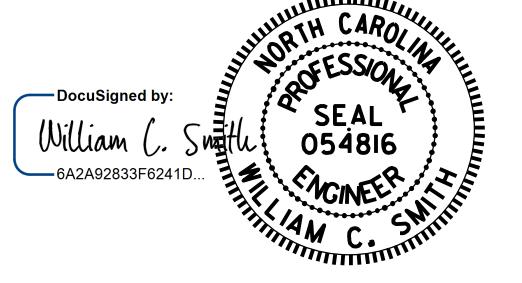
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 2

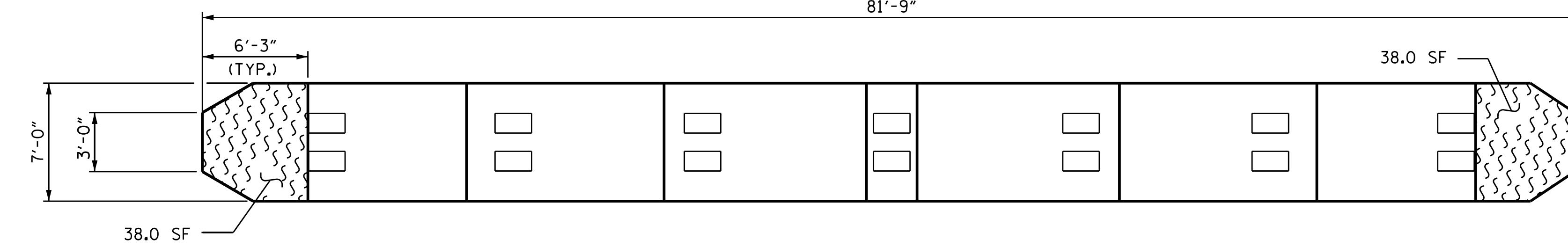


11/21/2025

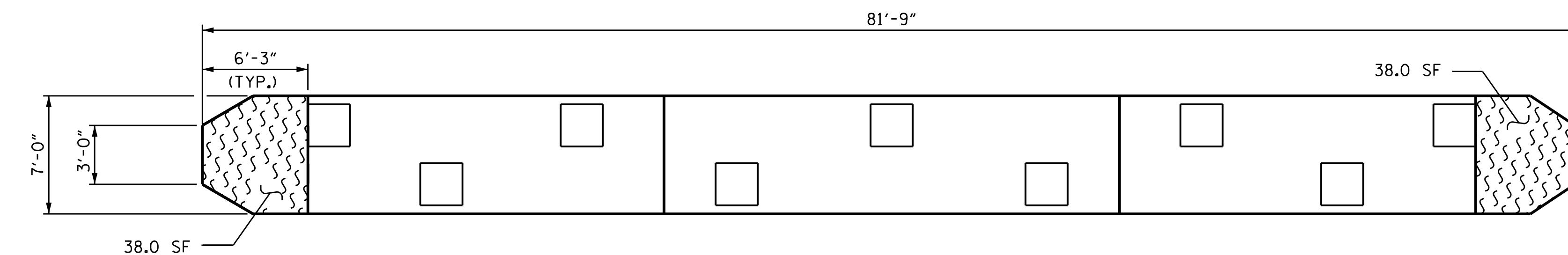
REVISIONS		SHEET NO.	
NO.	BY:	DATE:	NO.
1			3
2			4

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

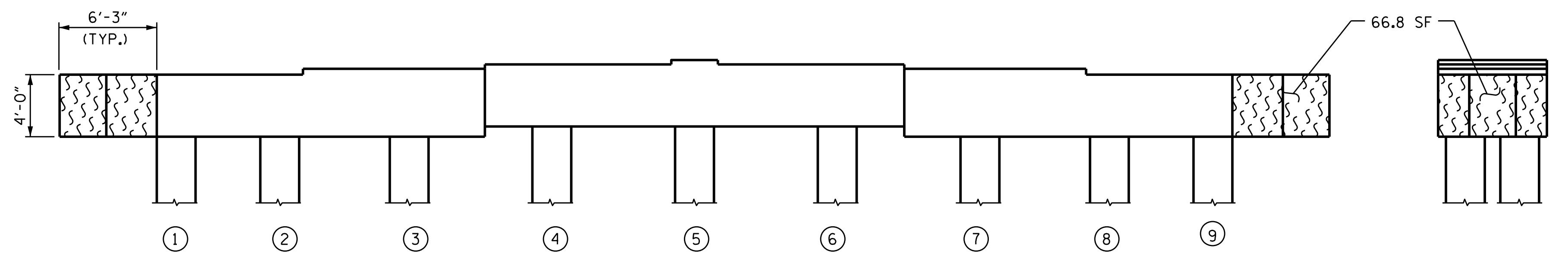
DRAWN BY : S. T. SANDOR DATE : 5/1/24
CHECKED BY : W. C. SMITH DATE : 5/7/24



TOP VIEW OF CAP

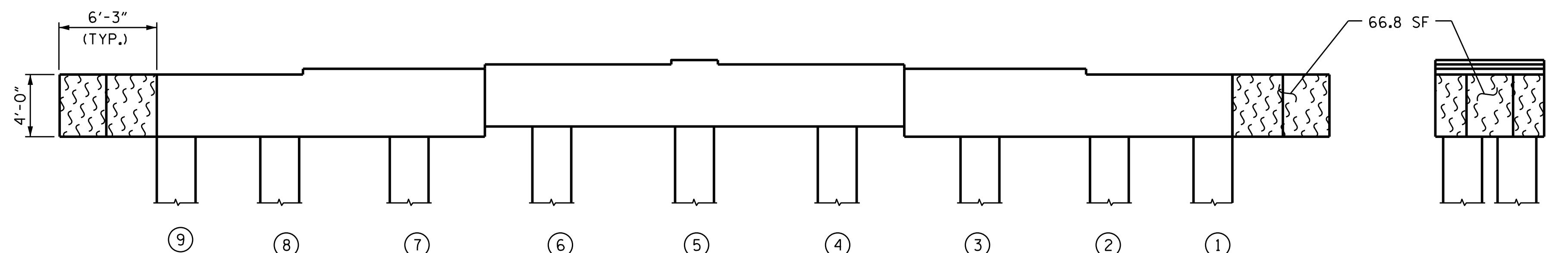


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/20/2025

REPAIR QUANTITY TABLE

BENT 3	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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

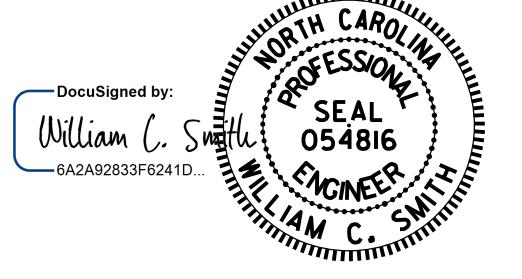
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 3



11/21/2025

REVISIONS		SHEET NO.				
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-71
2			4			TOTAL SHEETS 217

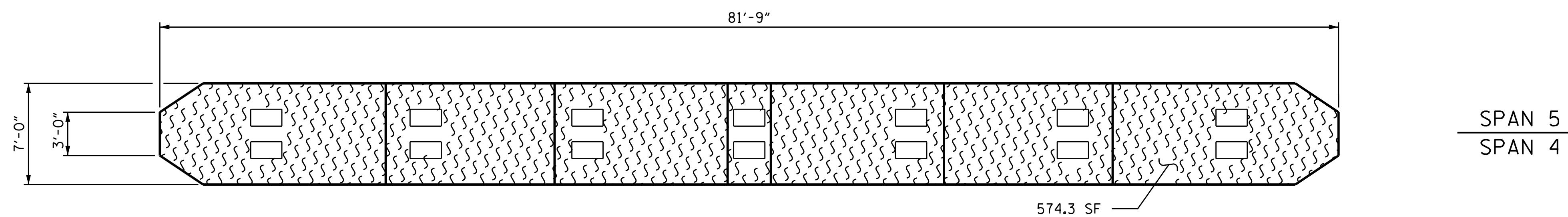
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FINAL UNLESS ALL
SIGNATURES COMPLETED

REPAIR QUANTITY TABLE

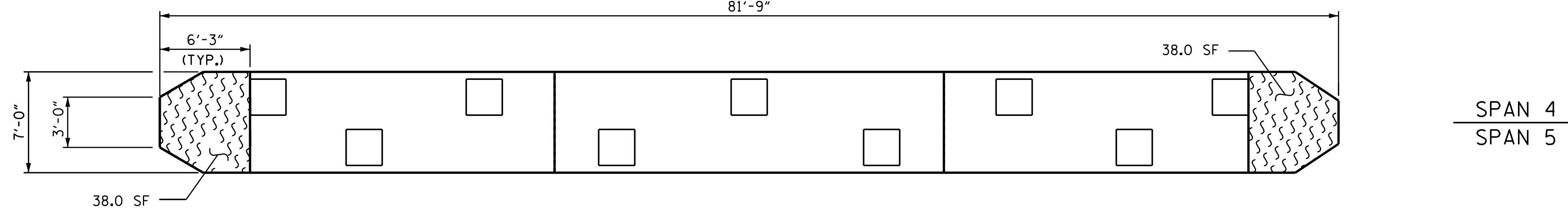
BENT 4	QUANTITIES		AREA SF	VOLUME CF
	ESTIMATE	ACTUAL		
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION	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.

TOP VIEW OF CAP



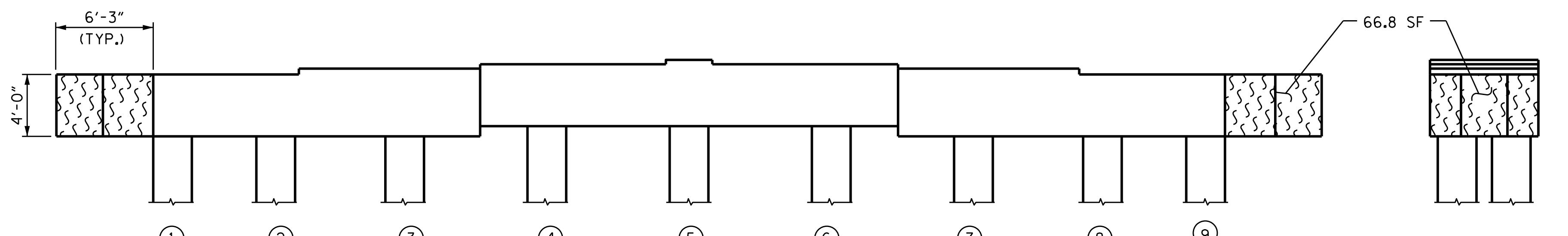
81'-9"



BOTTOM VIEW OF CAP

NOTES:

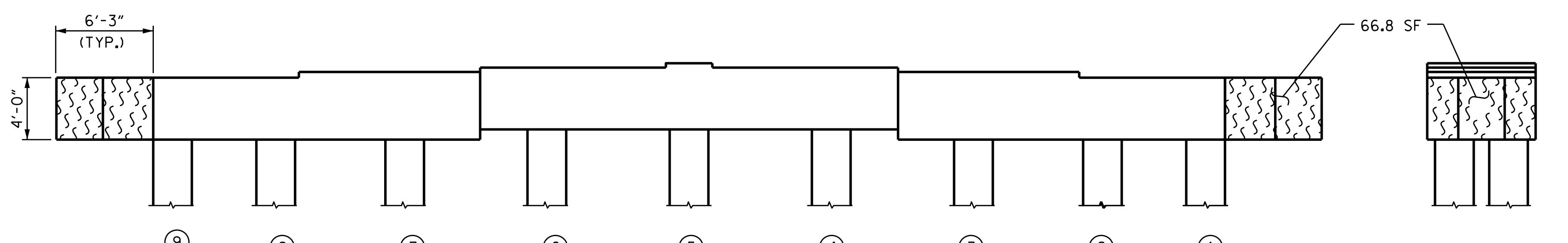
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)

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



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 4 OF 140

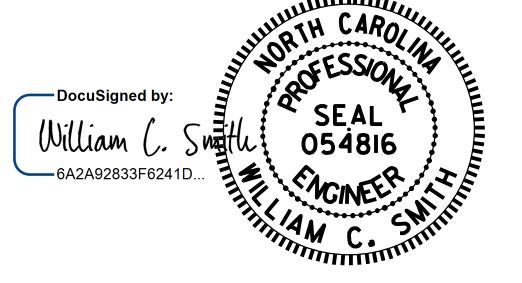
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 4

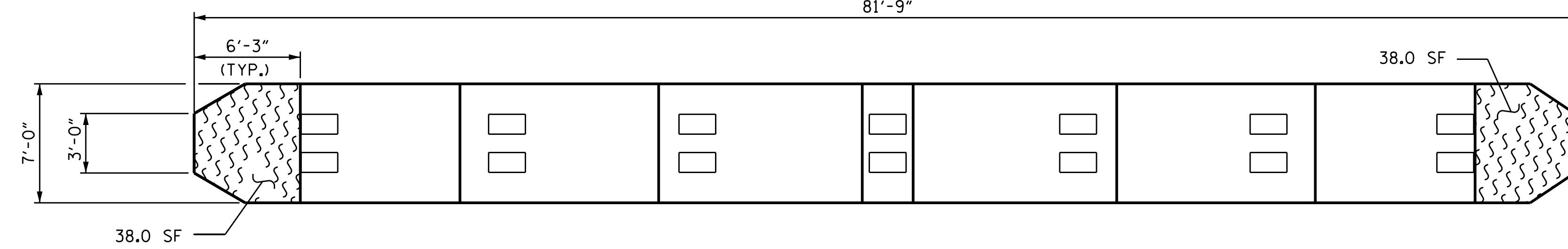


11/21/2025

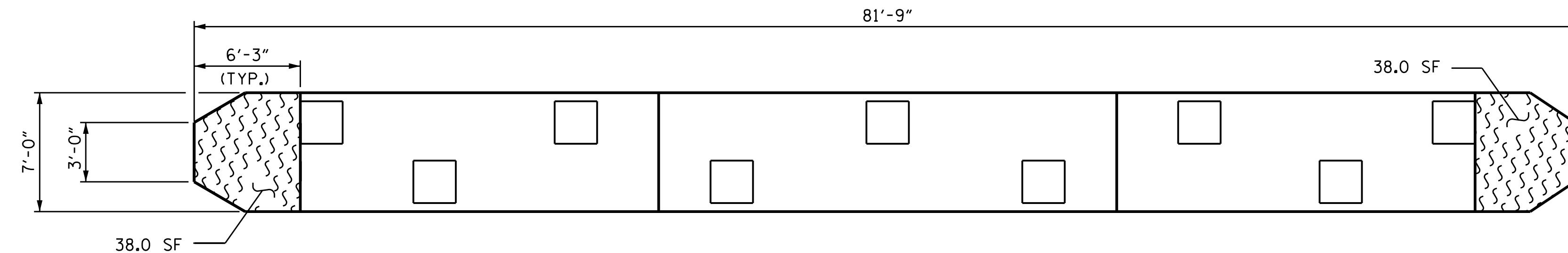
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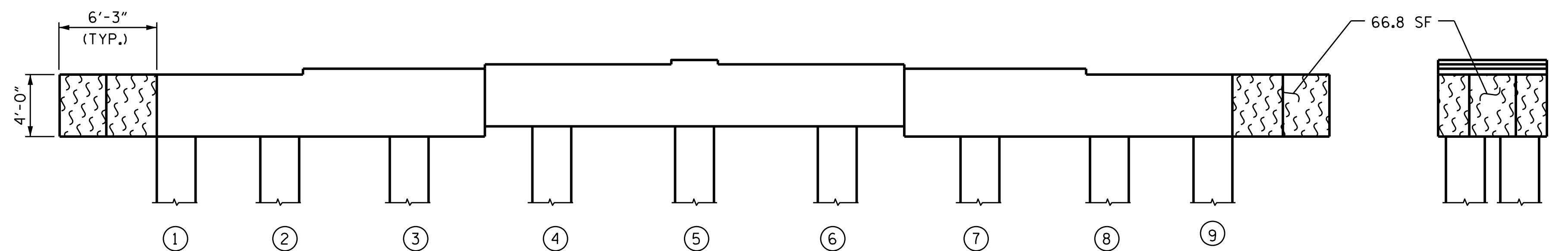
DRAWN BY : S. T. SANDOR DATE : 5/1/24
CHECKED BY : W. C. SMITH DATE : 5/7/24



TOP VIEW OF CAP

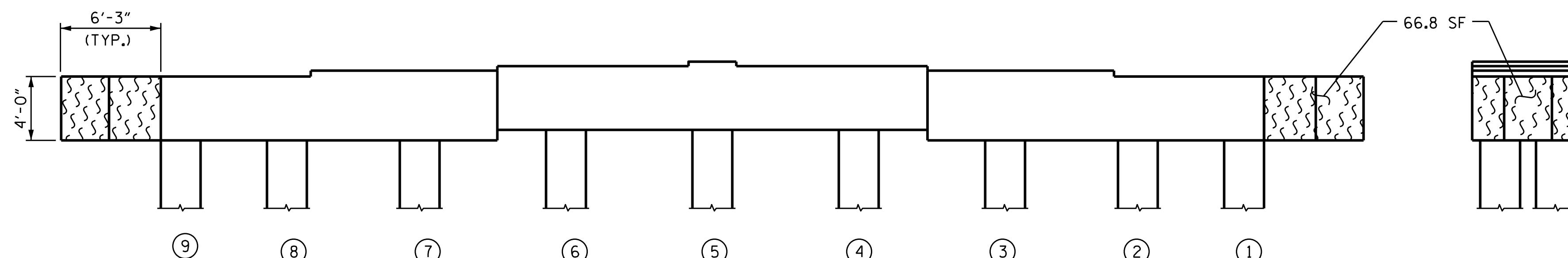


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/20/2025

REPAIR QUANTITY TABLE

BENT 5	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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

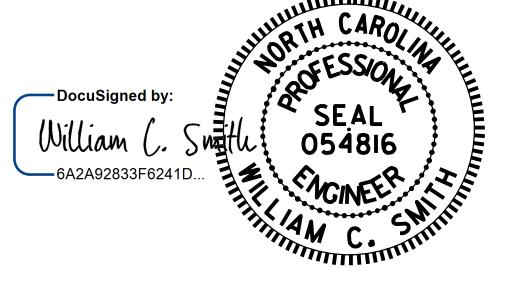
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

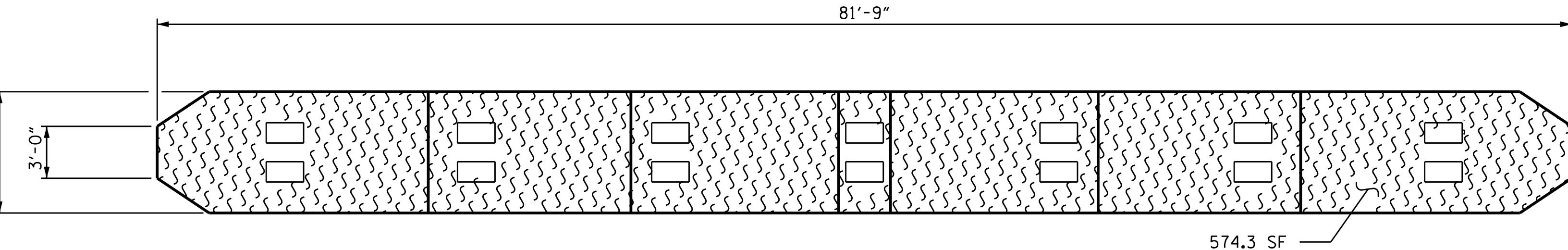
BENT 5



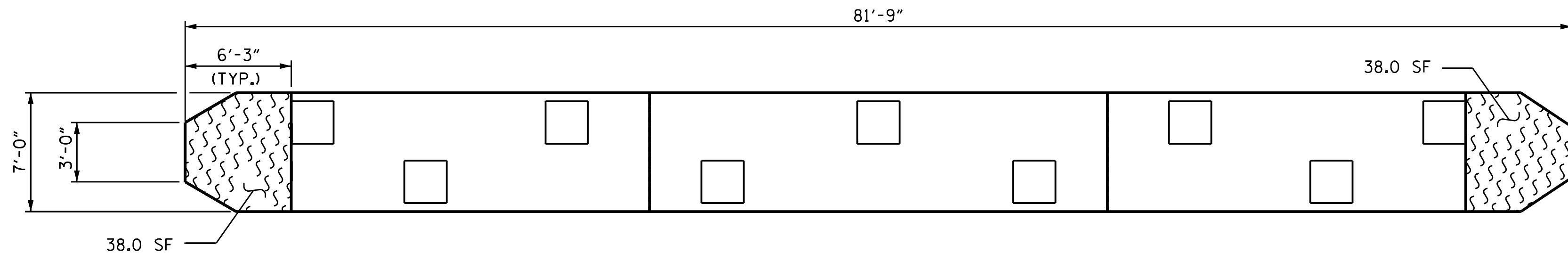
11/21/2025

REVISIONS		SHEET NO.	
1	3	S-73	
2	4		
		TOTAL SHEETS 217	

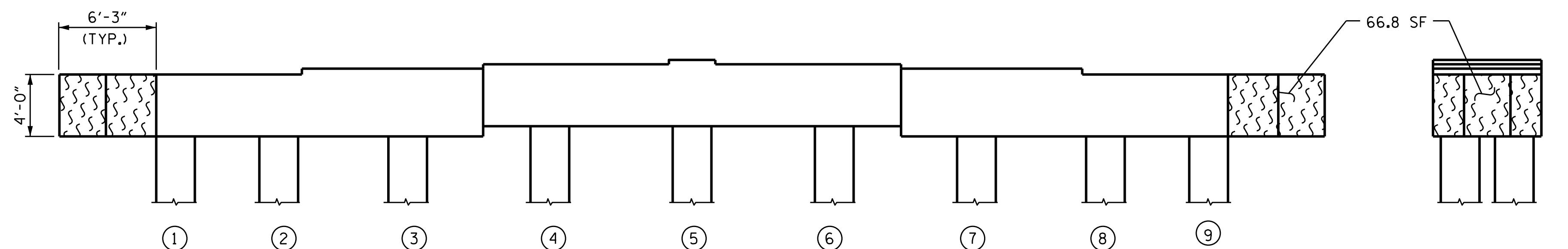
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SIGNATURES COMPLETED



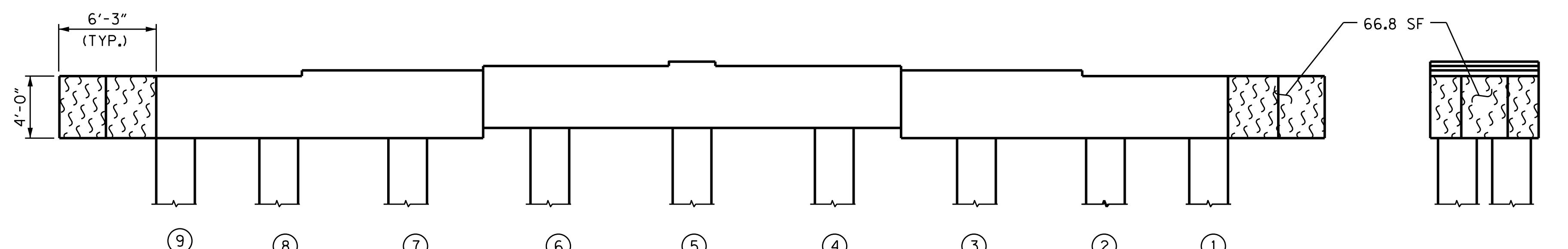
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 6	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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.

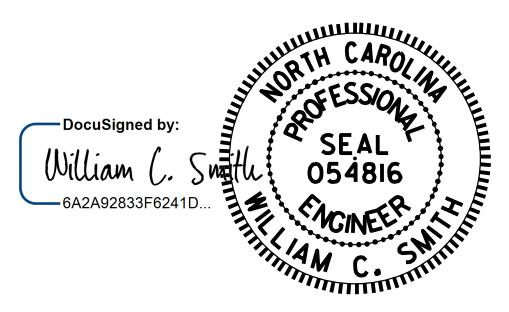
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- (P) PILE
- EPOXY COATING

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

SHEET 6 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 6

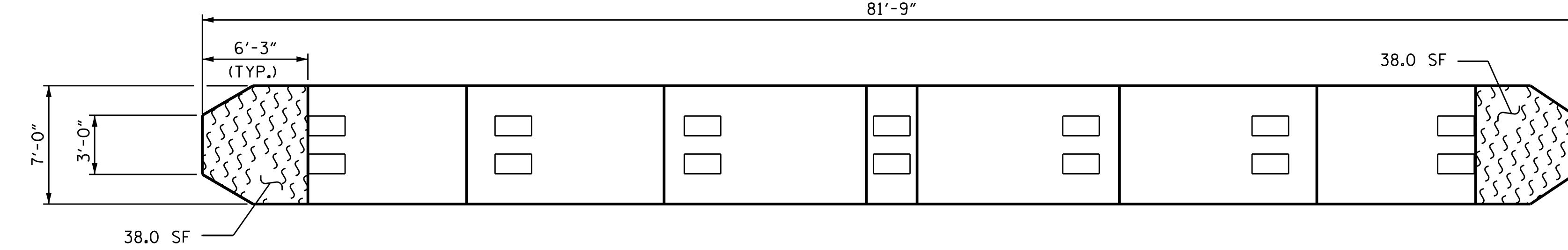


11/21/2025

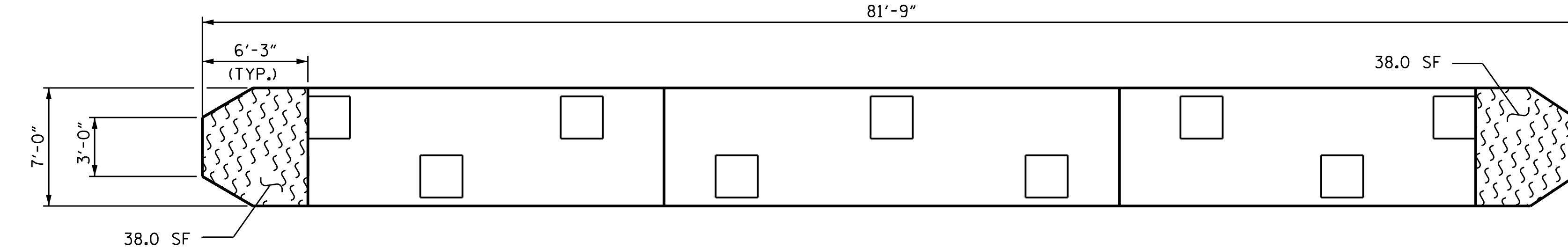
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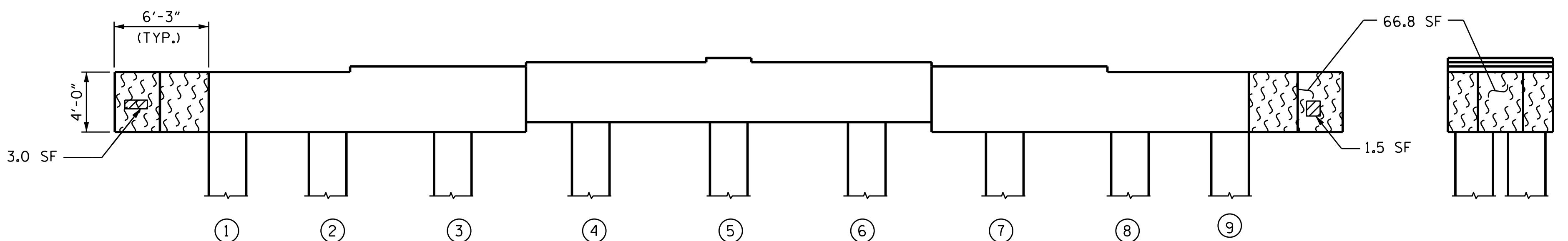
TOTAL SHEETS
217



TOP VIEW OF CAP

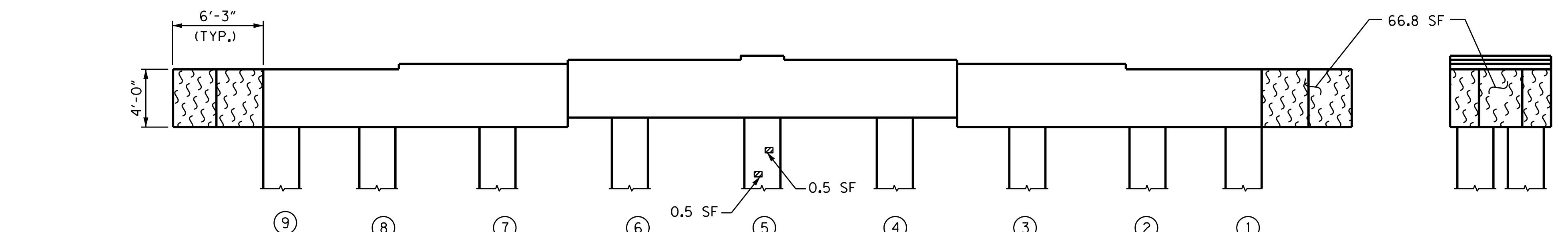


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 7	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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:

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

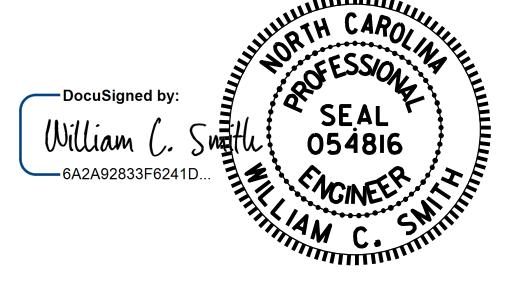
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 7 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 7



11/21/2025

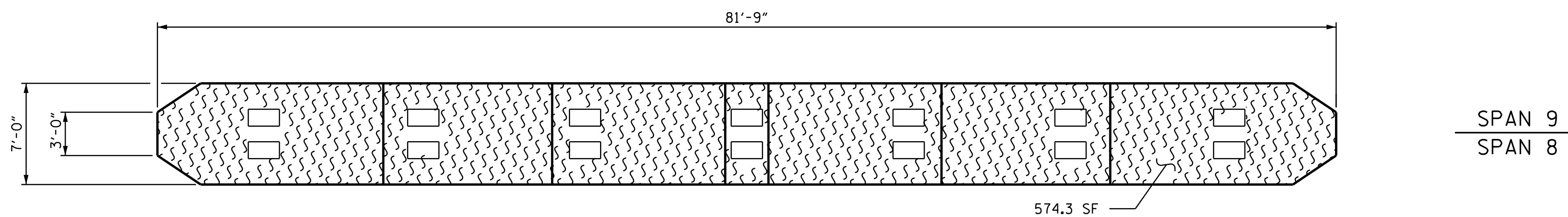
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REPAIR QUANTITY TABLE

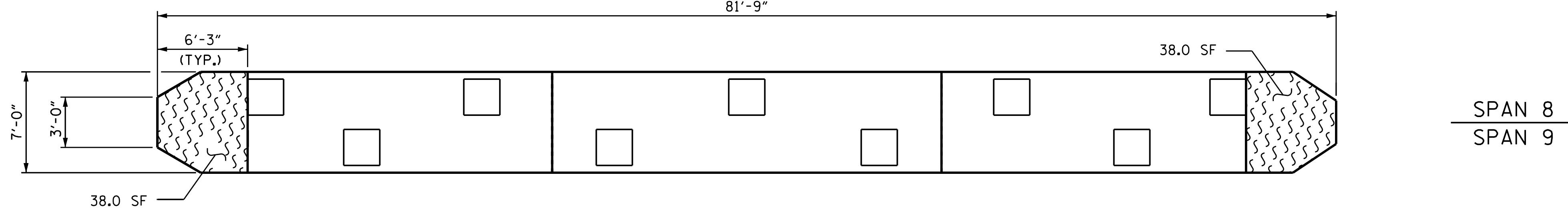
BENT 8	QUANTITIES		AREA SF	VOLUME CF
	ESTIMATE	ACTUAL		
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.7	0.4		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION	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.

TOP VIEW OF CAP

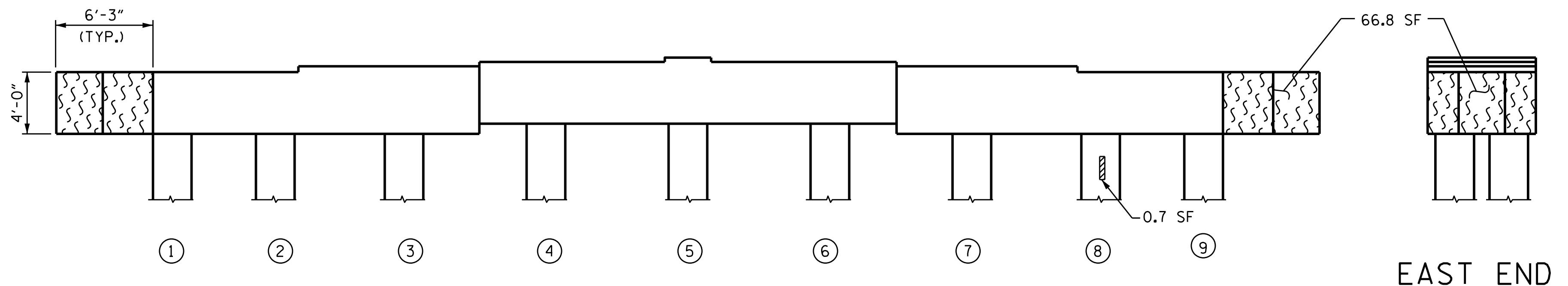


BOTTOM VIEW OF CAP

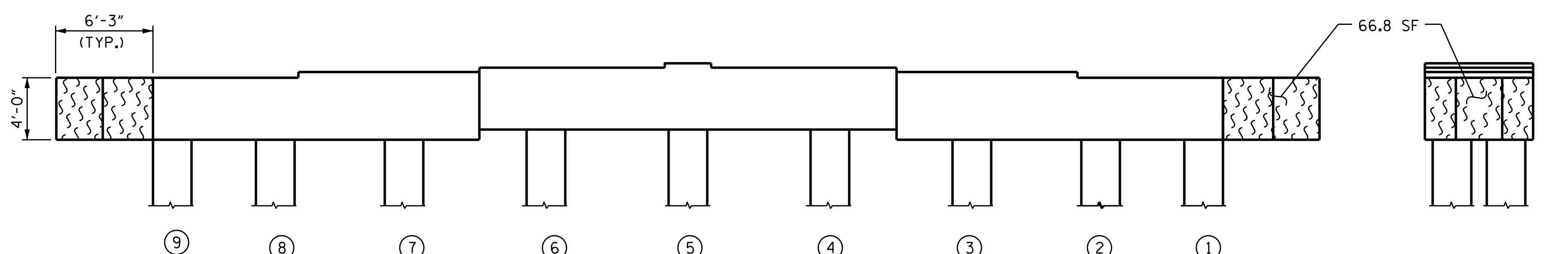


NOTES:

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



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

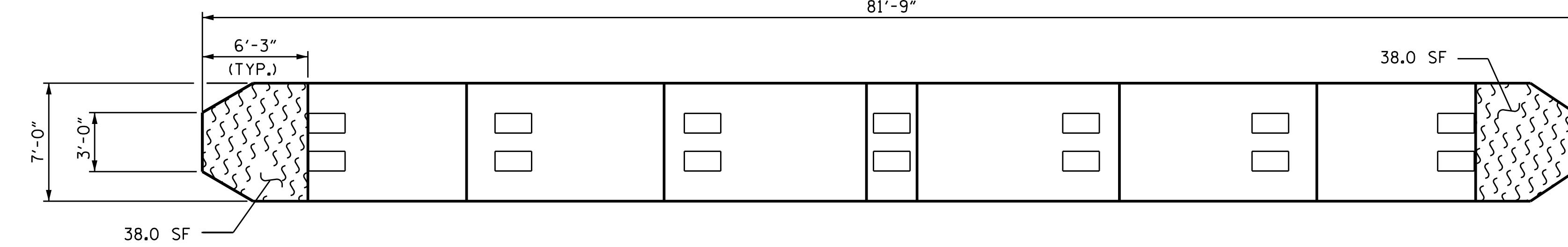


11/21/2025

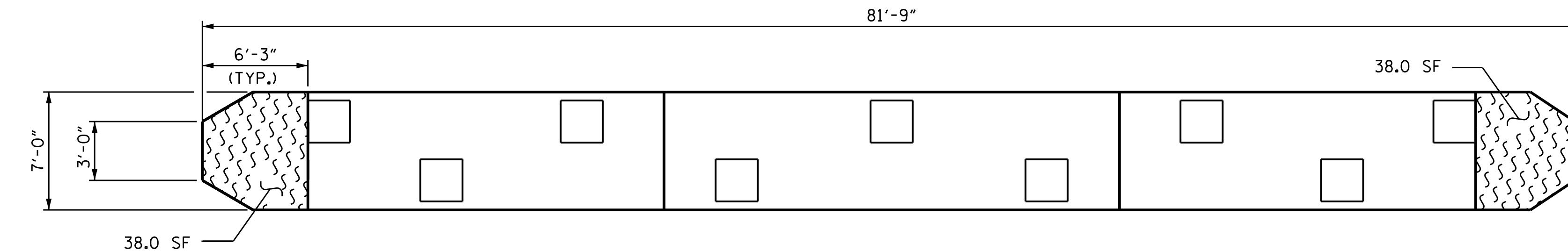
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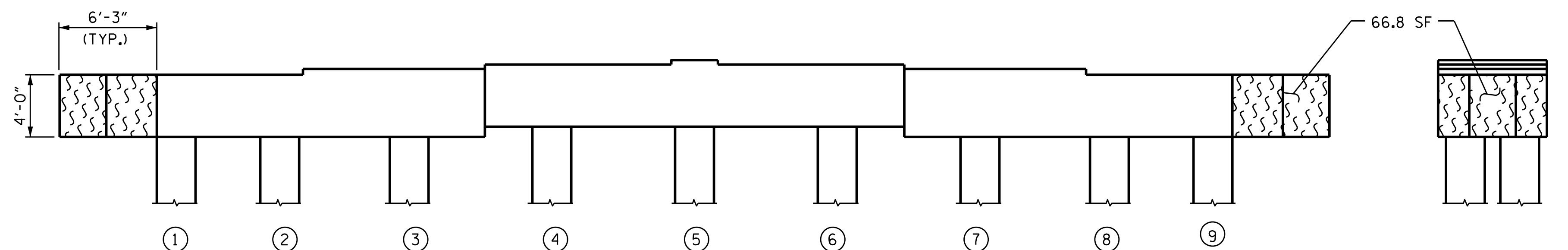
TOTAL
SHEETS
217



TOP VIEW OF CAP

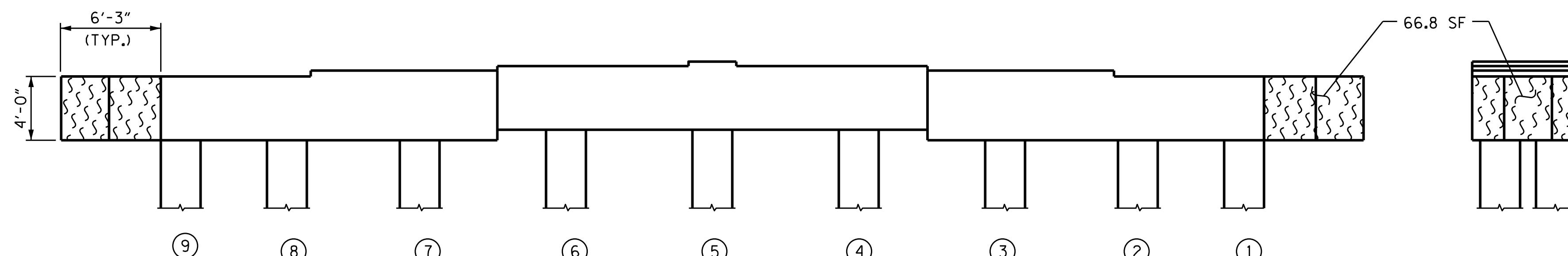


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 9	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 9 OF 140

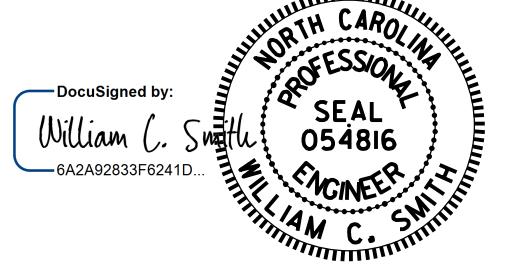
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 9



11/21/2025

REVISIONS

SHEET NO. S-77
TOTAL SHEETS 217

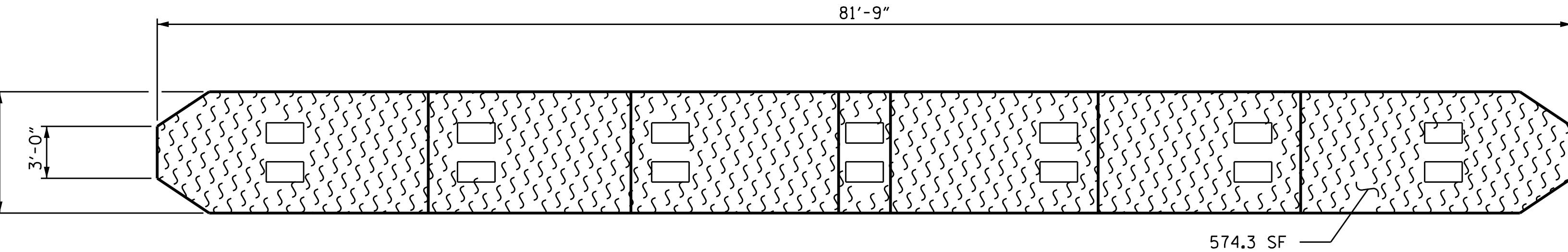
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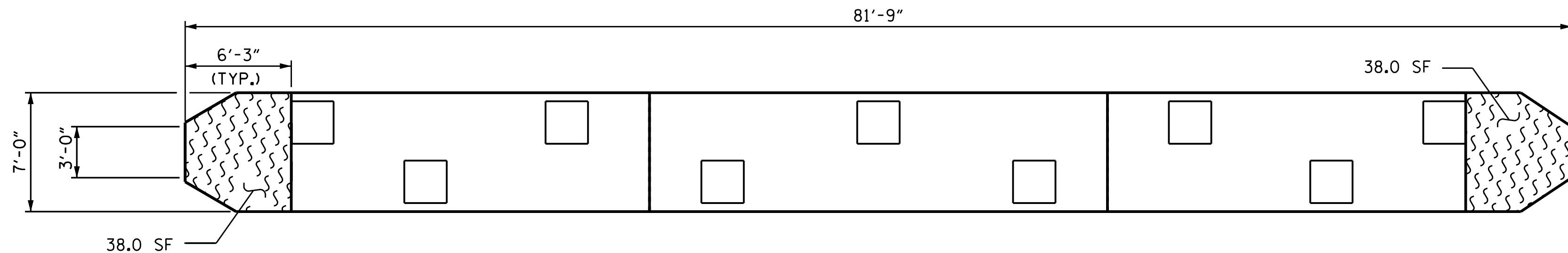
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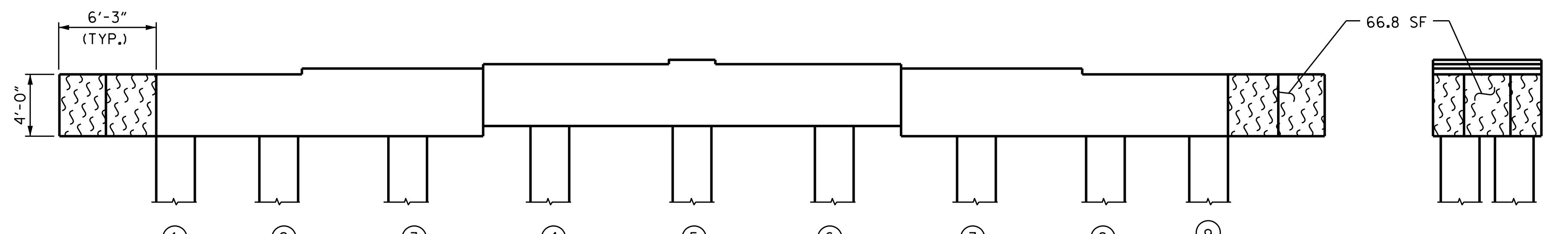
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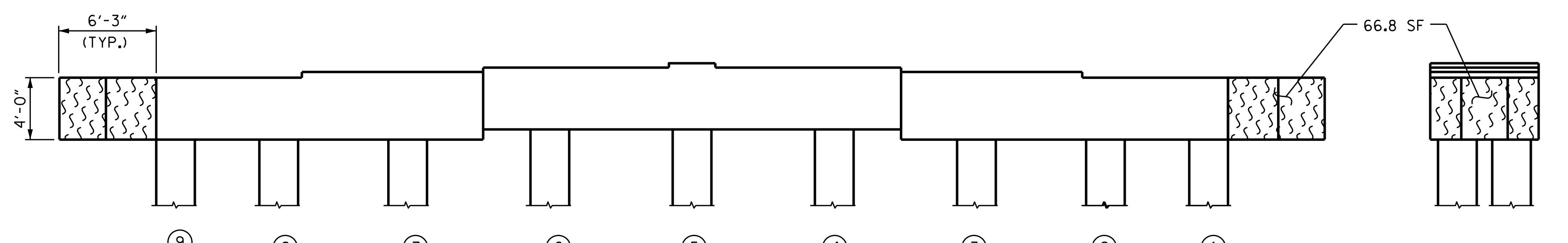
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 10	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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

SHEET 10 OF 140

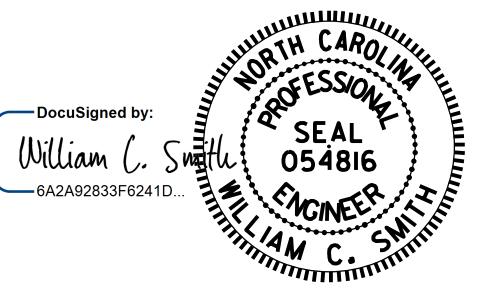
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 10

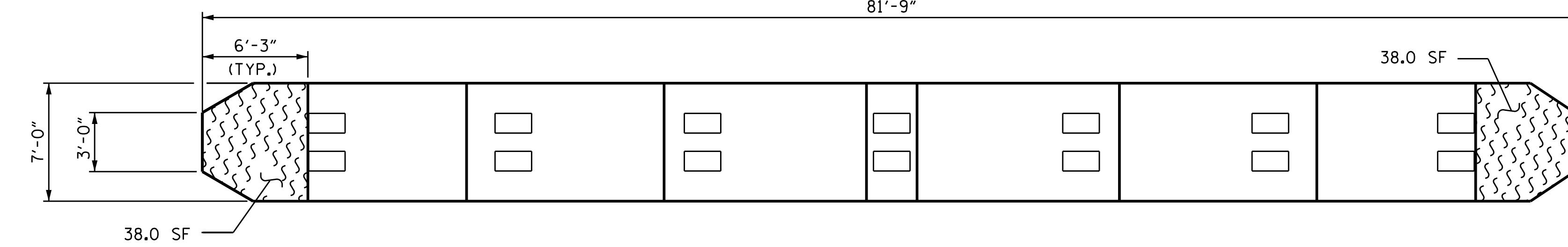


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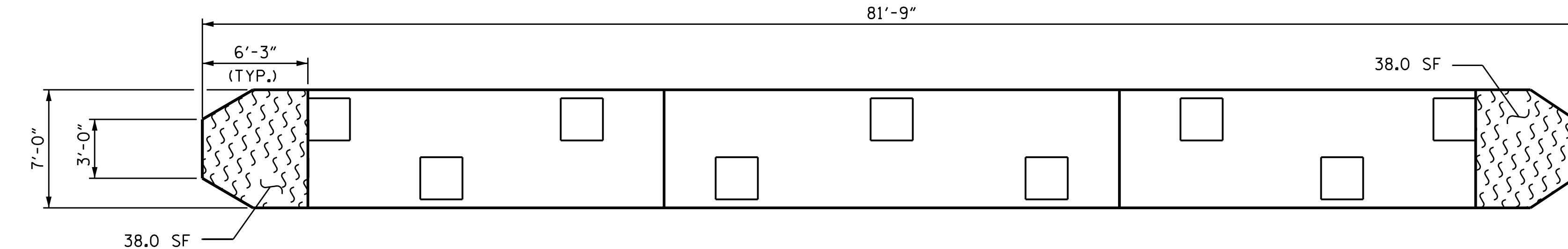
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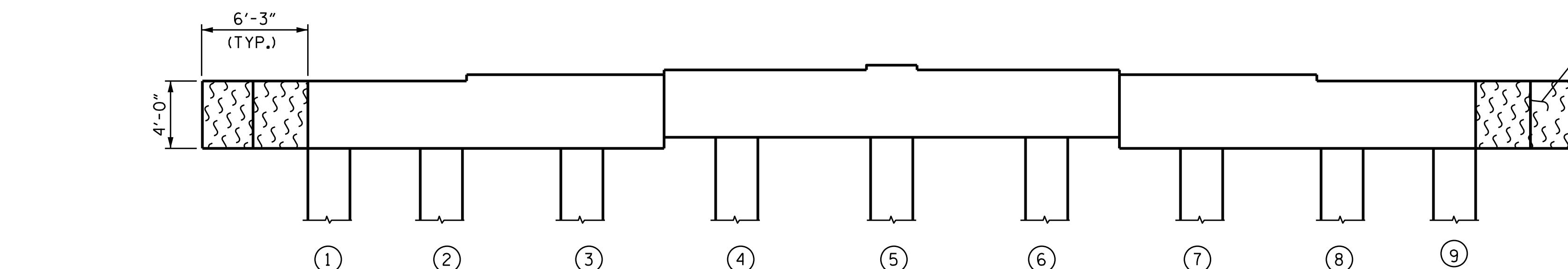
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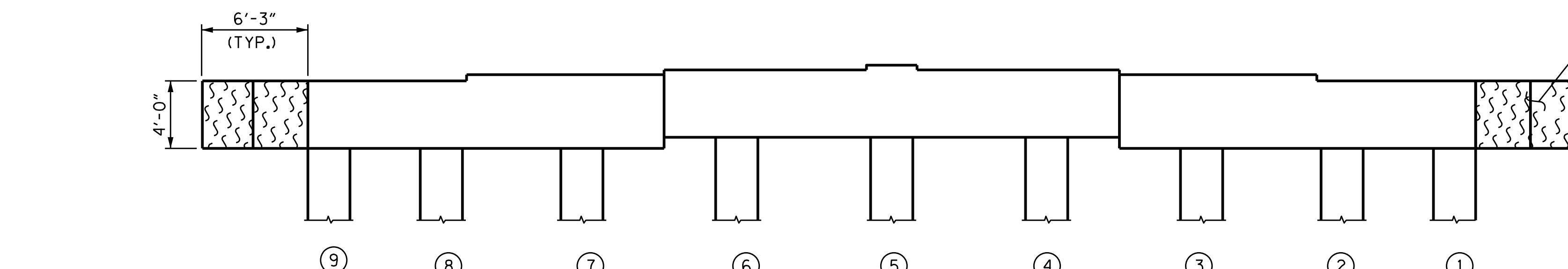
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 11	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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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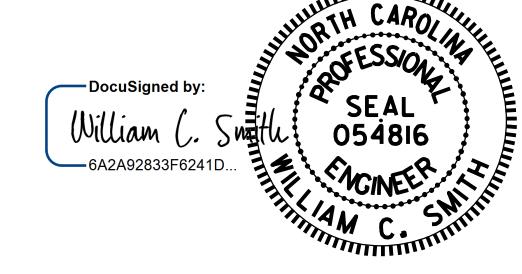
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- (P) PILE
- EPOXY COATING

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

SHEET 11 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 11

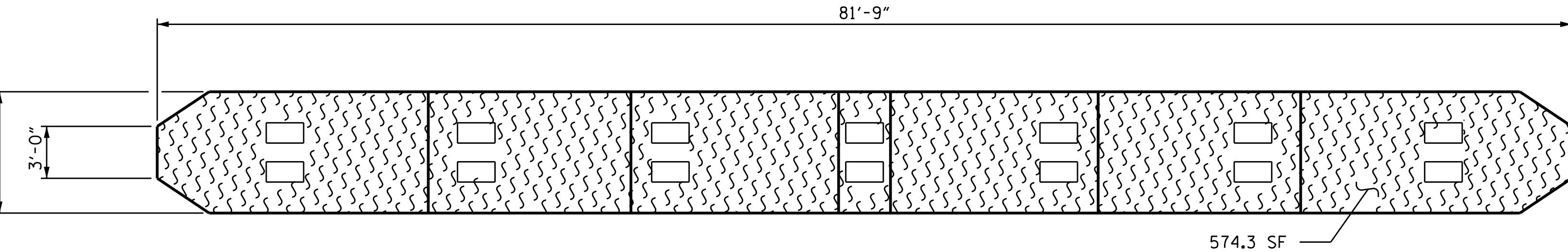


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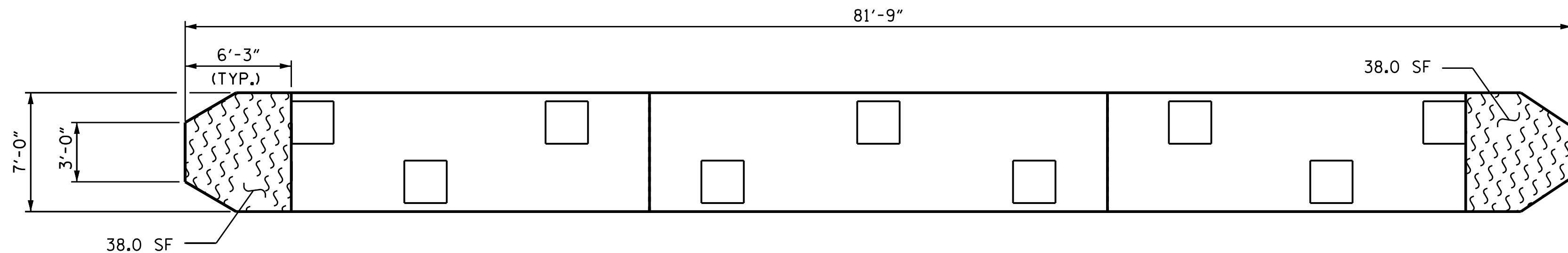
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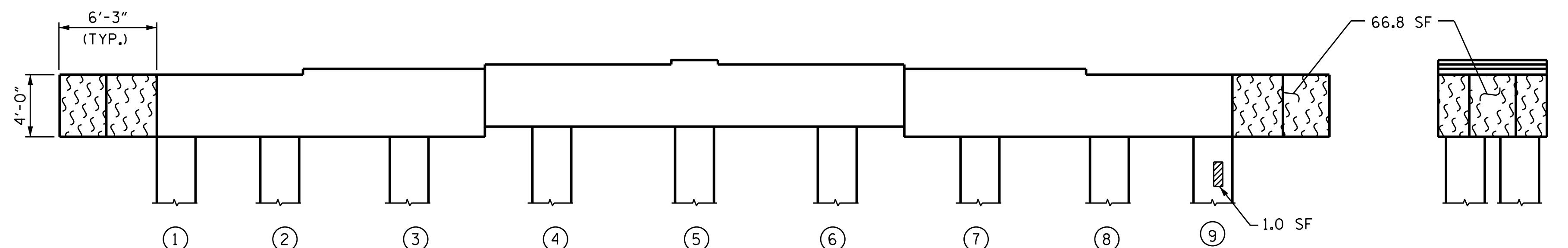
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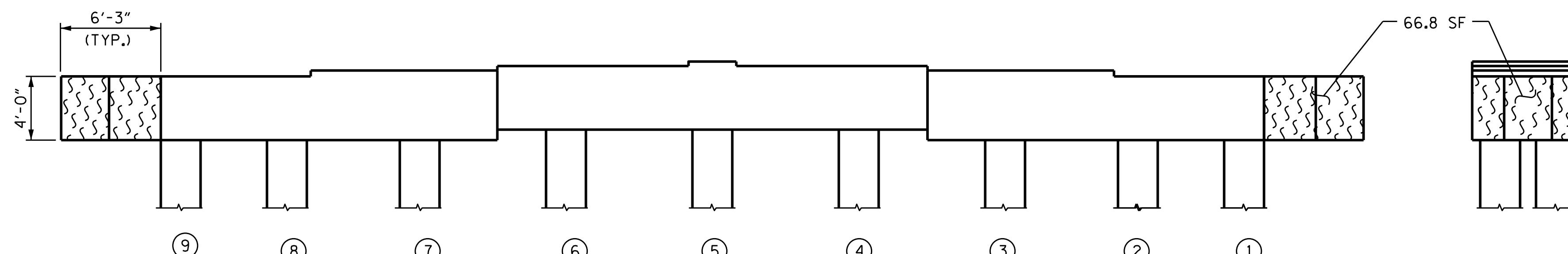
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 12	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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				
CAP	0.0			LF
COLUMN	0.0			
EPOXY COATING AND DEBRIS REMOVAL				
CAP	784.0		AREA SF	

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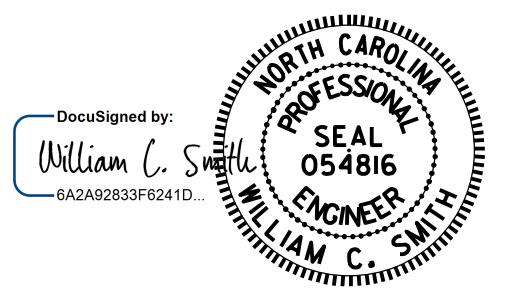
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- (P) PILE
- EPOXY COATING

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

SHEET 12 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 12

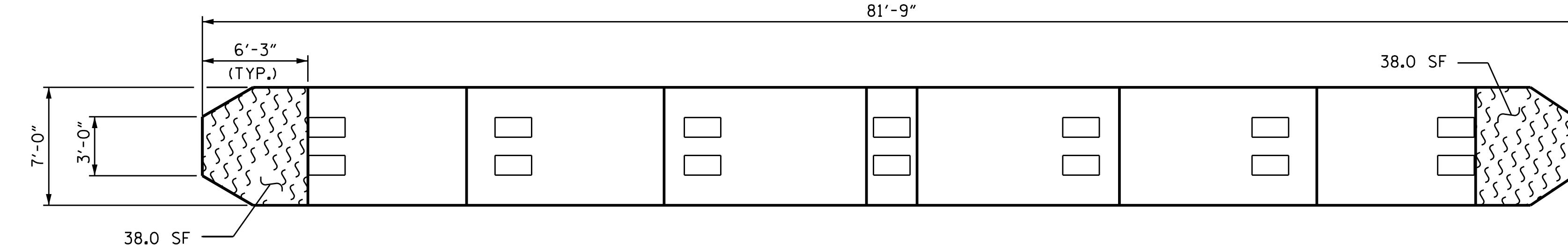


11/21/2025

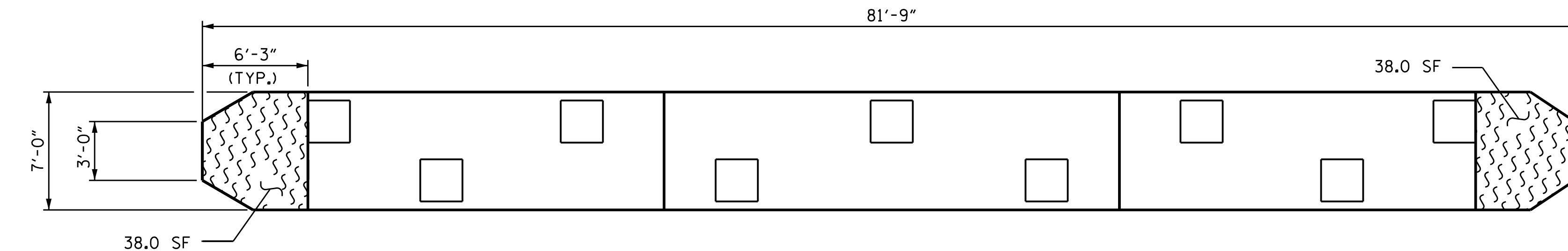
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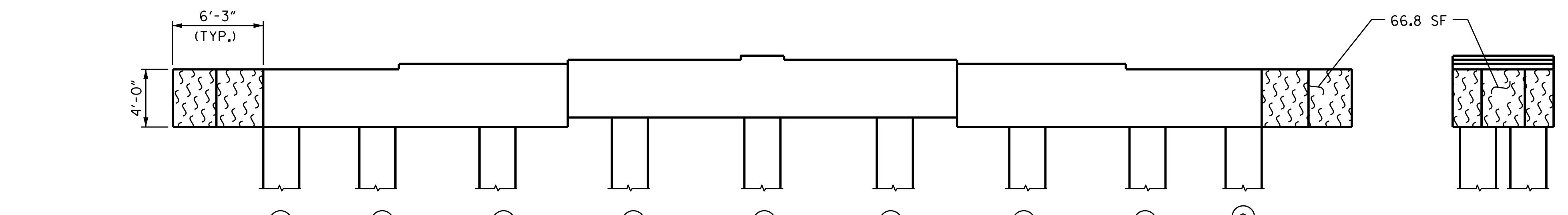
TOTAL SHEETS
217



TOP VIEW OF CAP

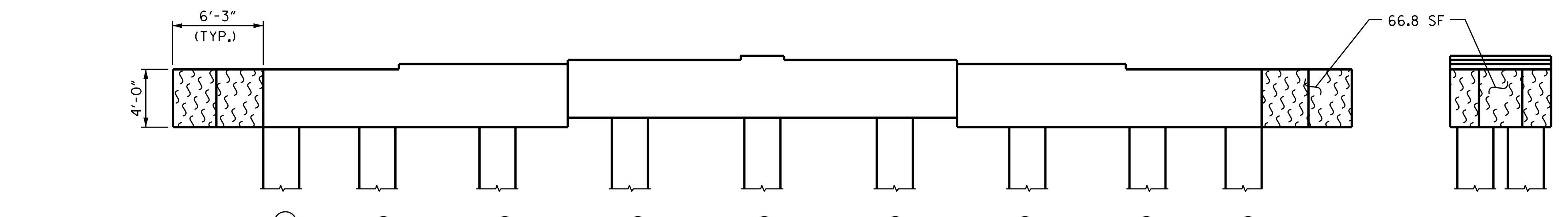


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 13	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 13 OF 140

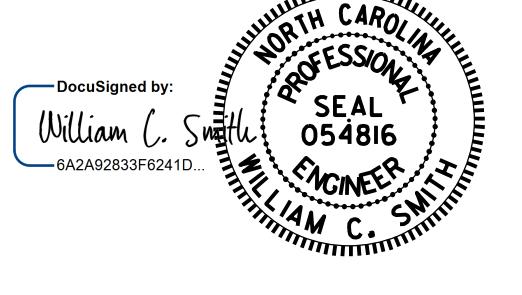
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 13



11/21/2025

REVISIONS

SHEET NO.

S-81

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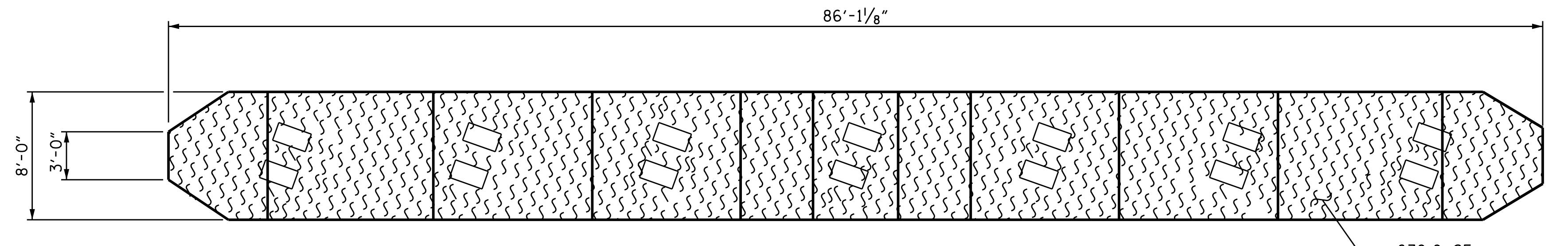
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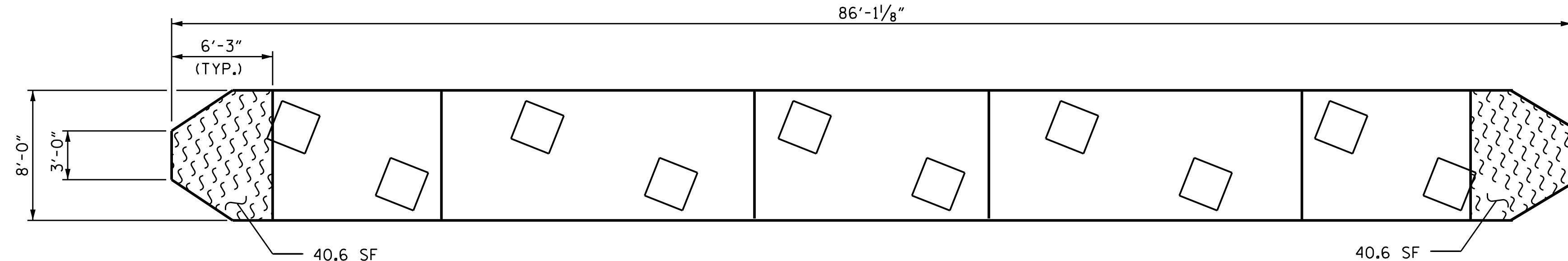
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TOTAL SHEETS

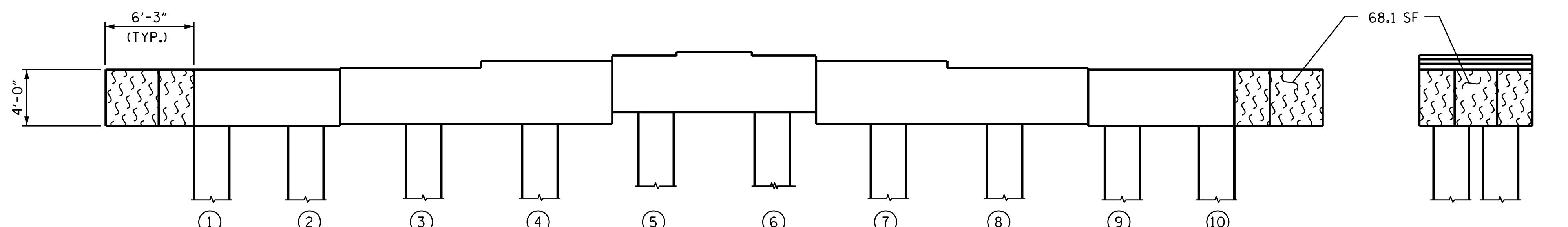
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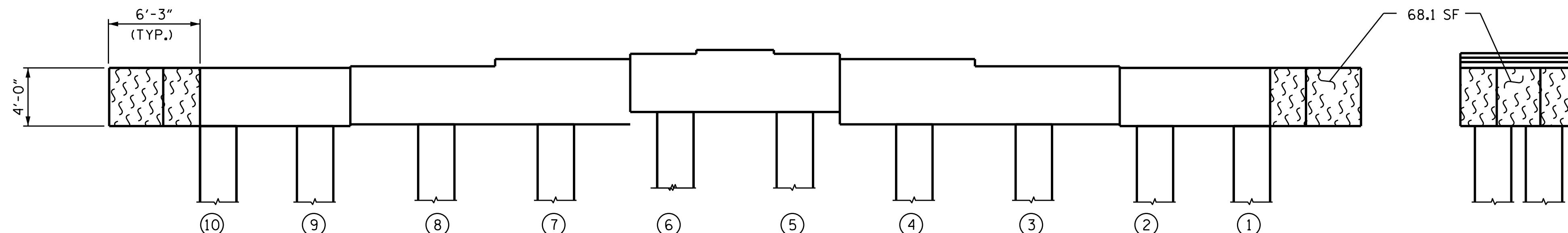
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 14	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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.

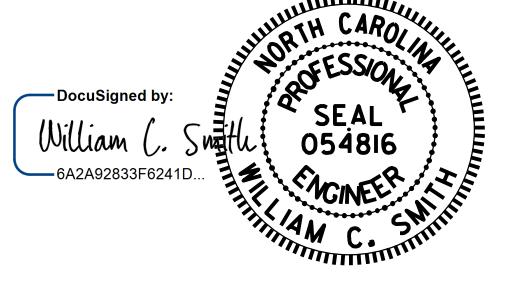
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- P PILE
- EPOXY COATING

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

SHEET 14 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

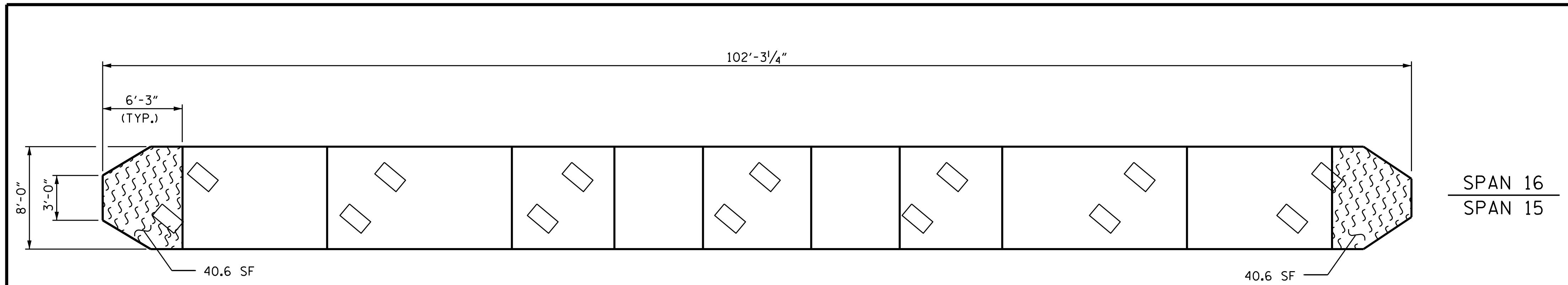
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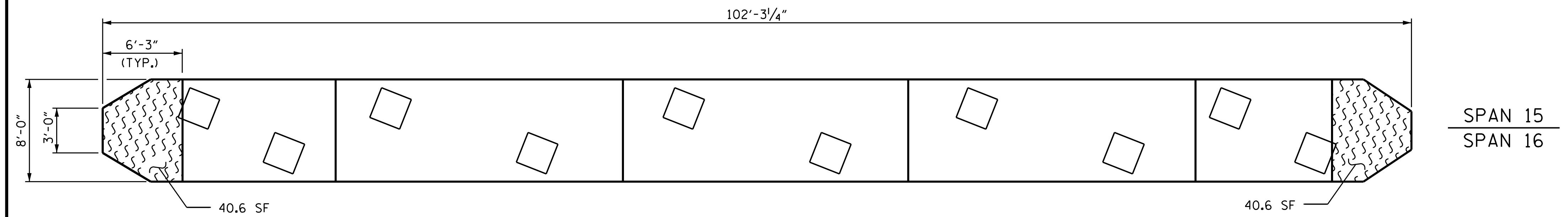
11/21/2025

REVISIONS
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FINAL UNLESS ALL
SIGNATURES COMPLETED
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2 4

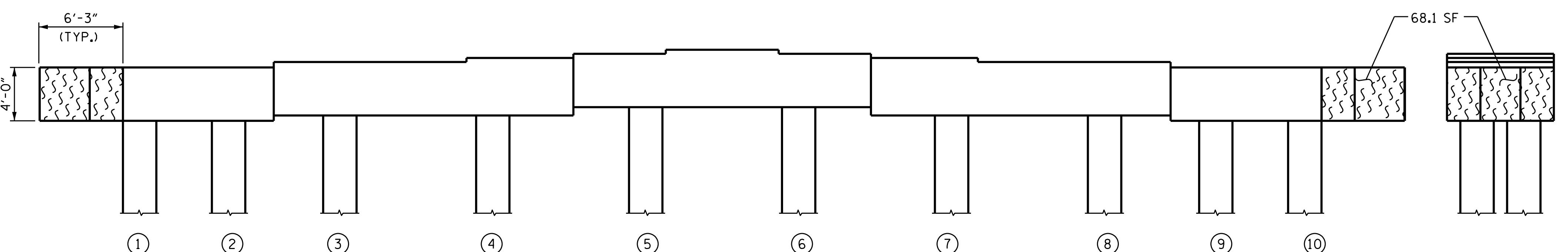
SHEET NO.
S-82
TOTAL SHEETS
217



TOP VIEW OF CAP

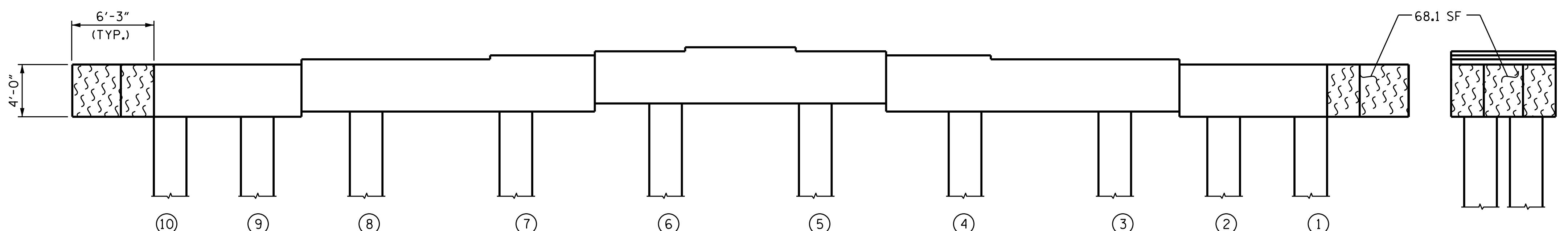


BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

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

REPAIR QUANTITY TABLE

BENT 15	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR	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

SHEET 15 OF 140

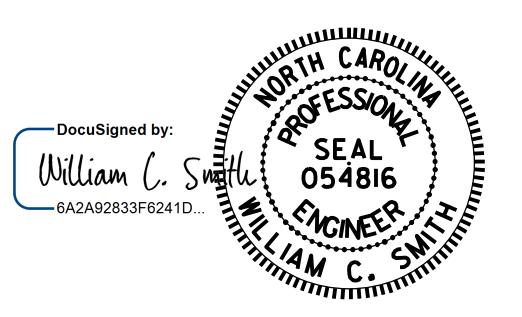
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 15

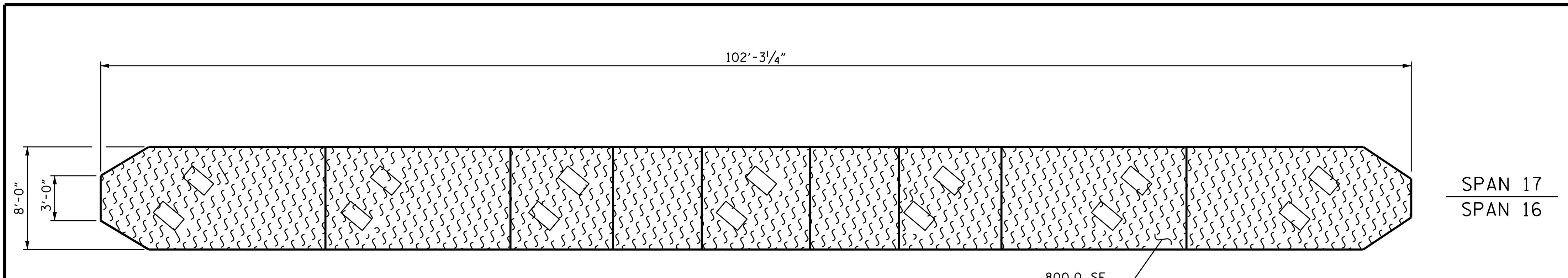


11/21/2025

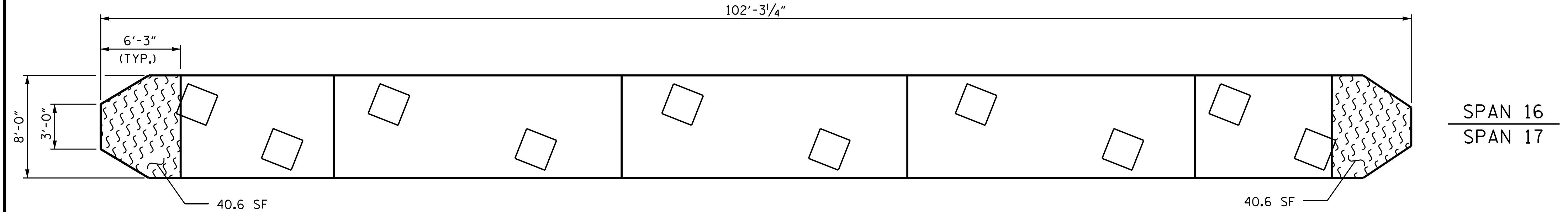
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-83
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FINAL UNLESS ALL
SIGNATURES COMPLETED

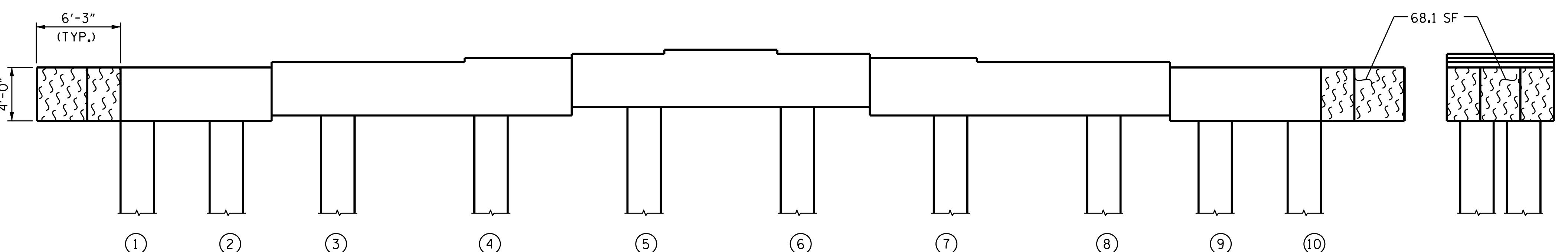
TOTAL SHEETS
217



TOP VIEW OF CAP

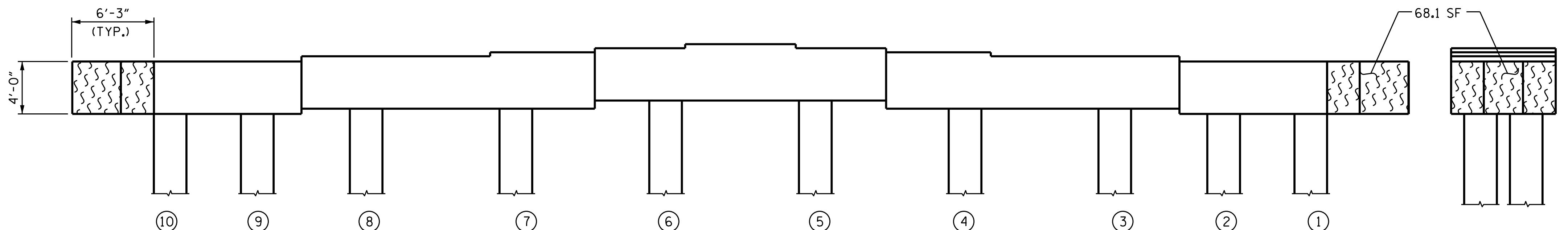


BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

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

REPAIR QUANTITY TABLE

BENT 16	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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
- (P) PILE
- EPOXY COATING

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 16 OF 140

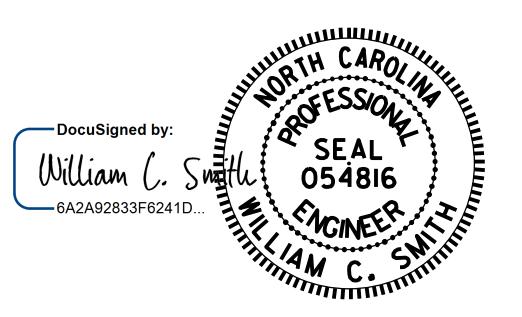
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 16

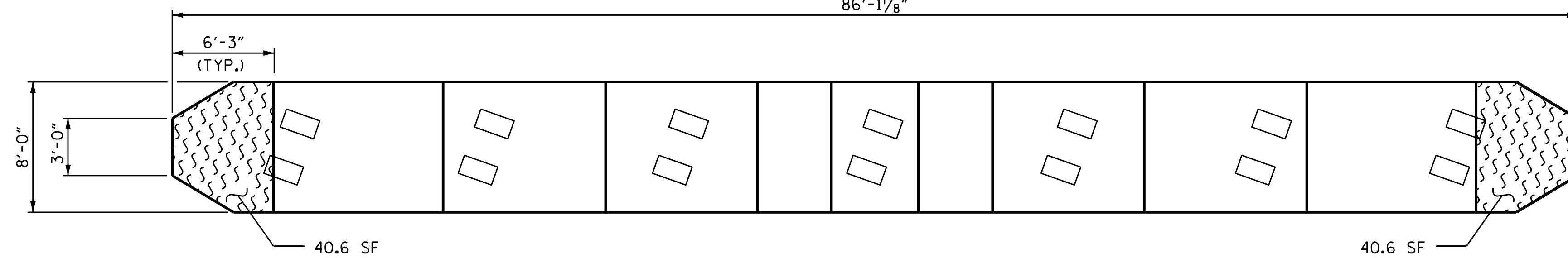


11/21/2025

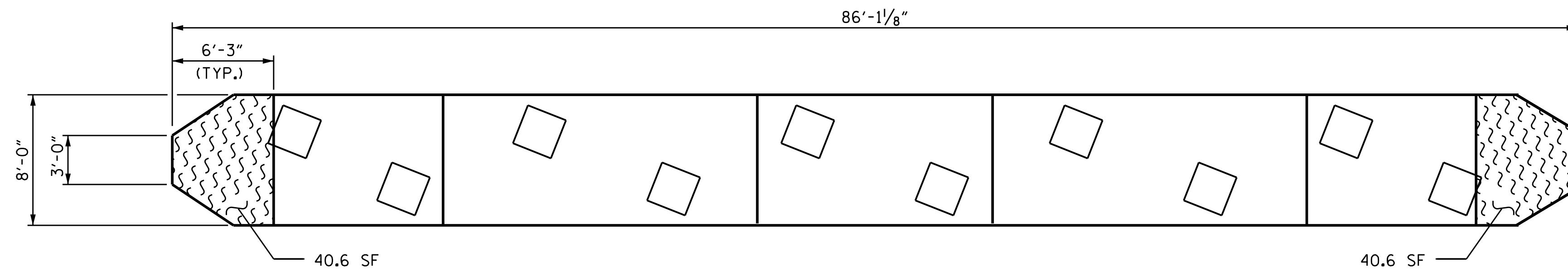
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2			4			

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

TOTAL SHEETS
217



TOP VIEW OF CAP



BOTTOM VIEW OF CAP

SPAN 18
SPAN 17

REPAIR QUANTITY TABLE

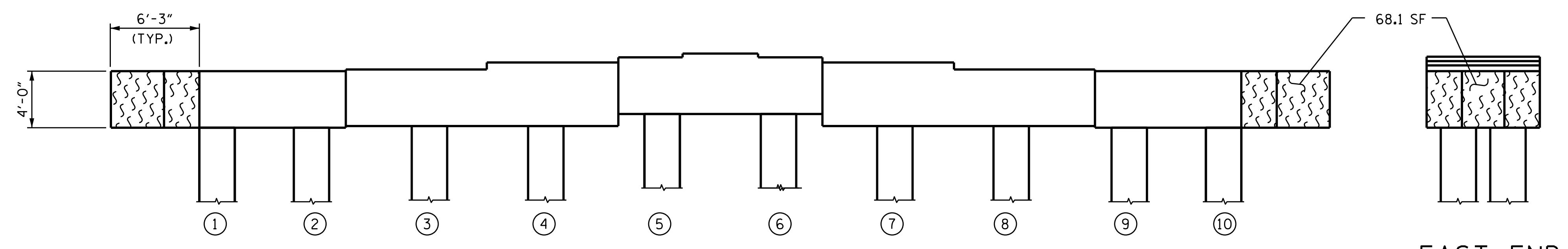
BENT 17	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION	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:

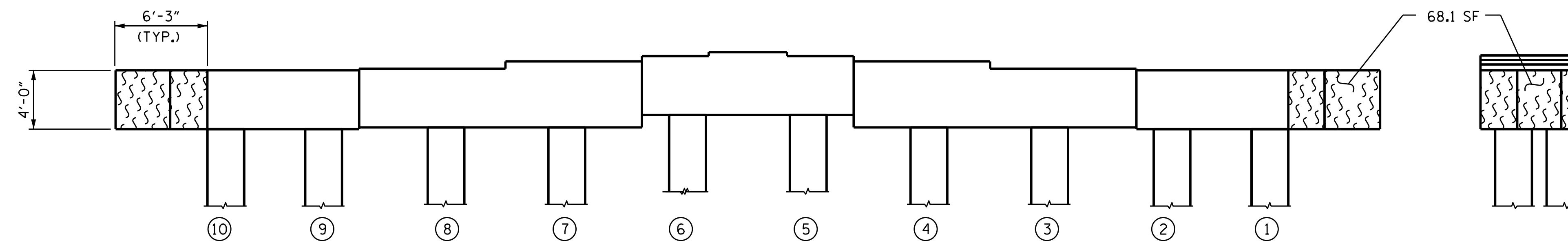
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.

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



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)

EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

WEST END

PROJECT NO. 15BPR.137

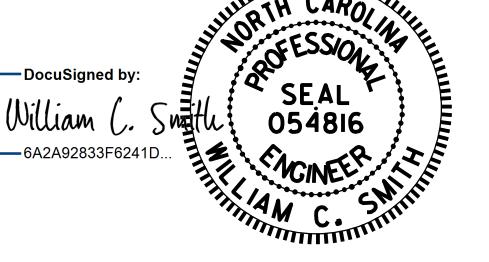
BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 17 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 17

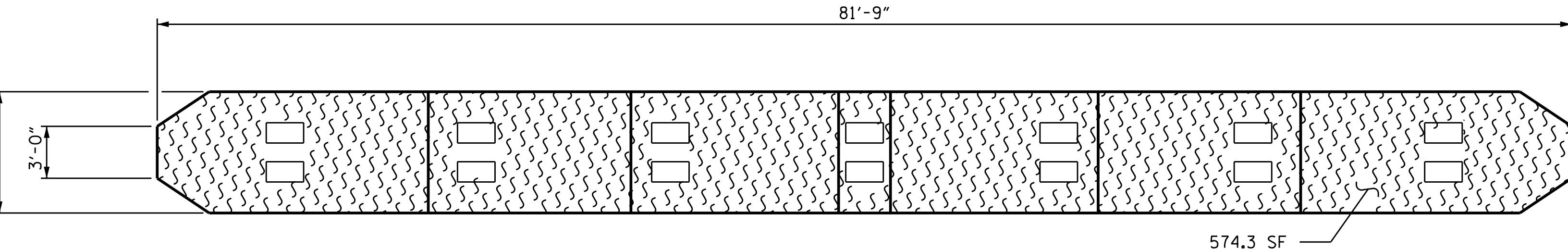


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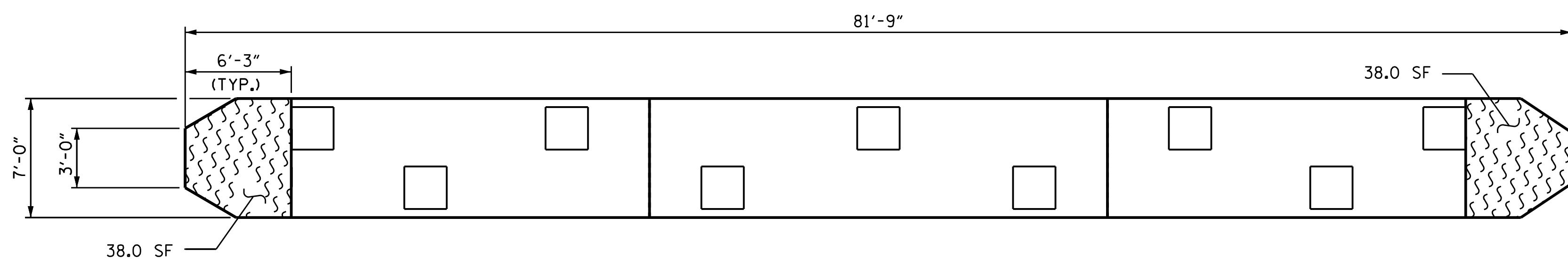
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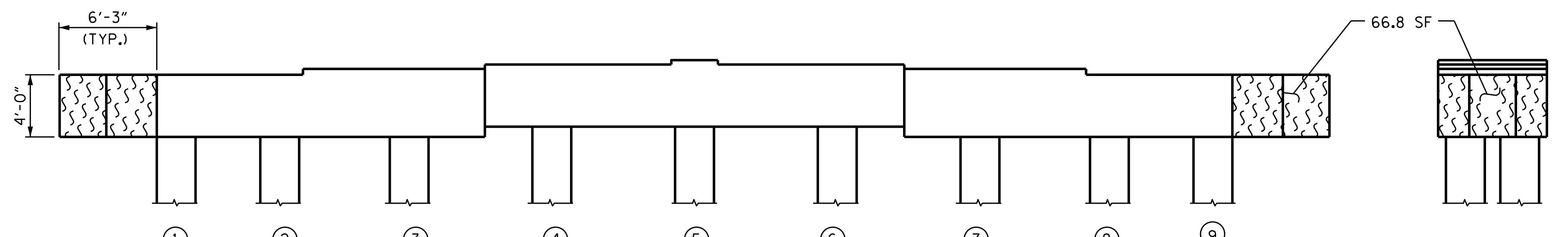
DRAWN BY : S. T. SANDOR DATE : 5/2/24
CHECKED BY : W. C. SMITH DATE : 5/7/24



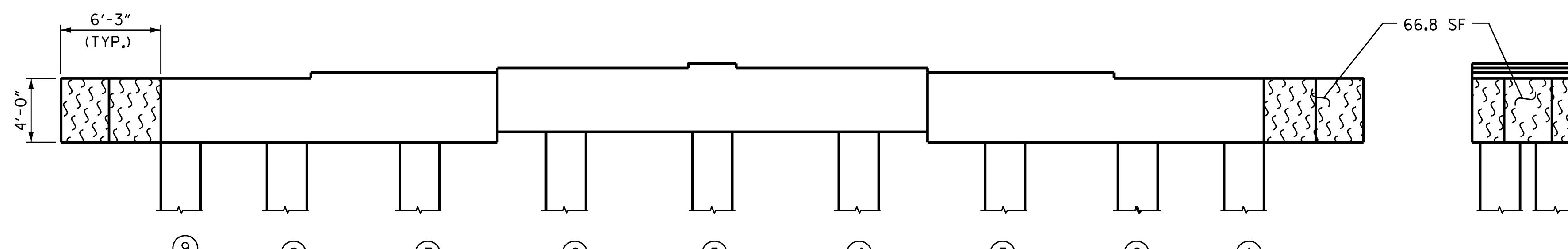
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 18	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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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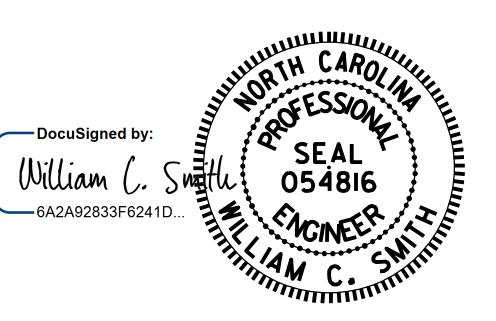
- SHOTCRETE REPAIR
- CONCRETE REPAIR
- ERI EPOXY RESIN INJECTION
- (P) PILE
- EPOXY COATING

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

SHEET 18 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

BENT 18

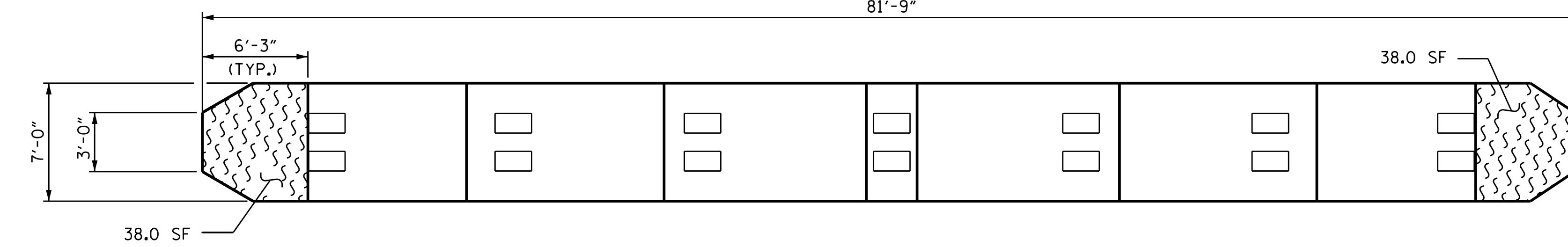


11/21/2025

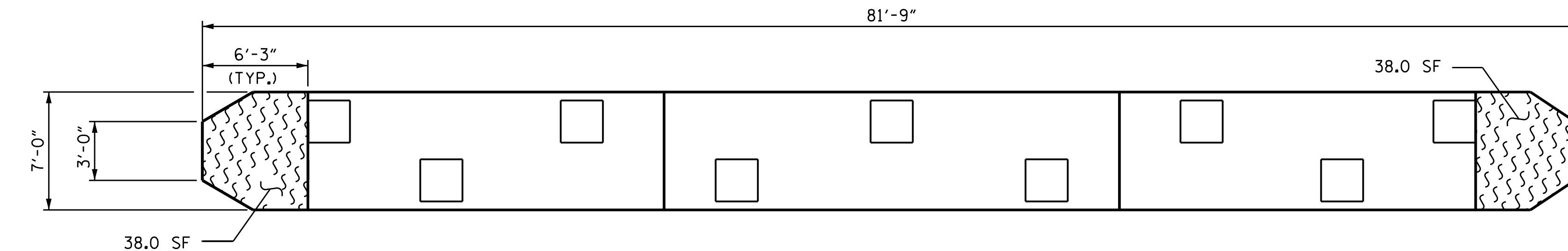
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-86
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2			4			

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FINAL UNLESS ALL
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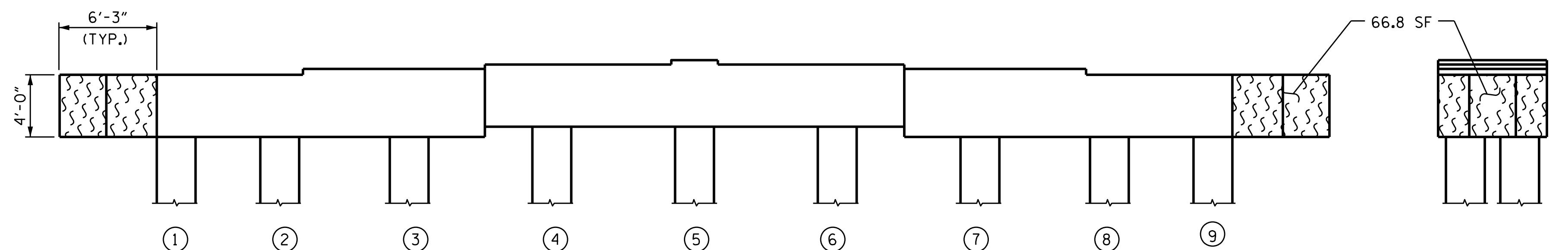
TOTAL SHEETS
217



TOP VIEW OF CAP

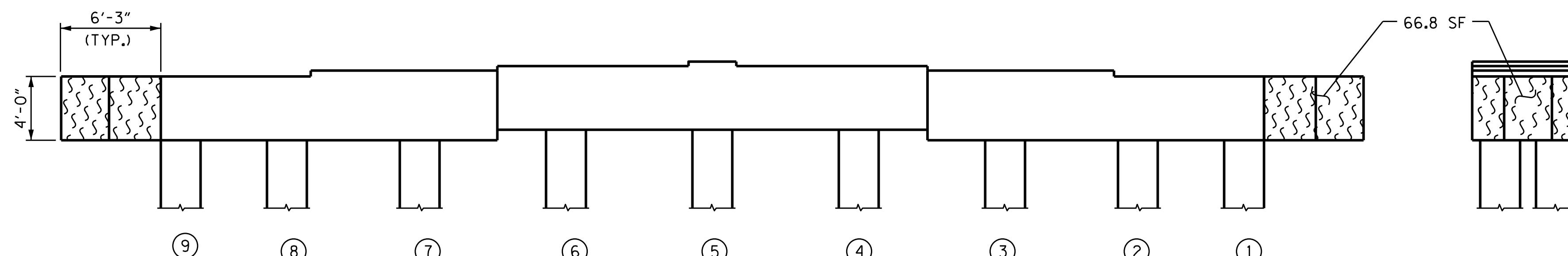


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 19	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 19 OF 140

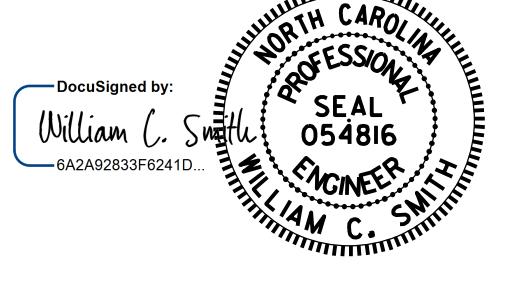
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

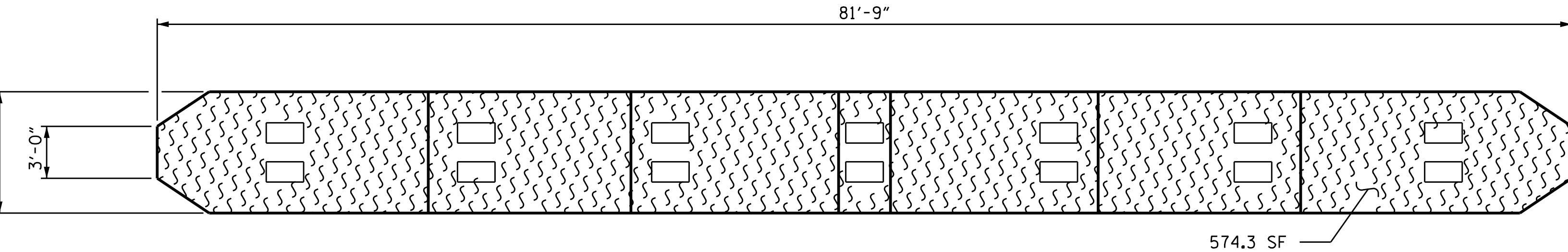
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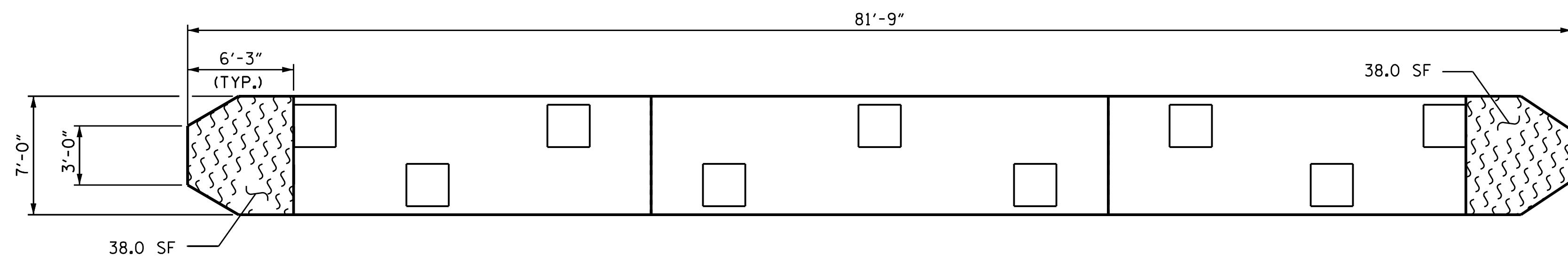
11/21/2025

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2	BY:	DATE:	NO. 3
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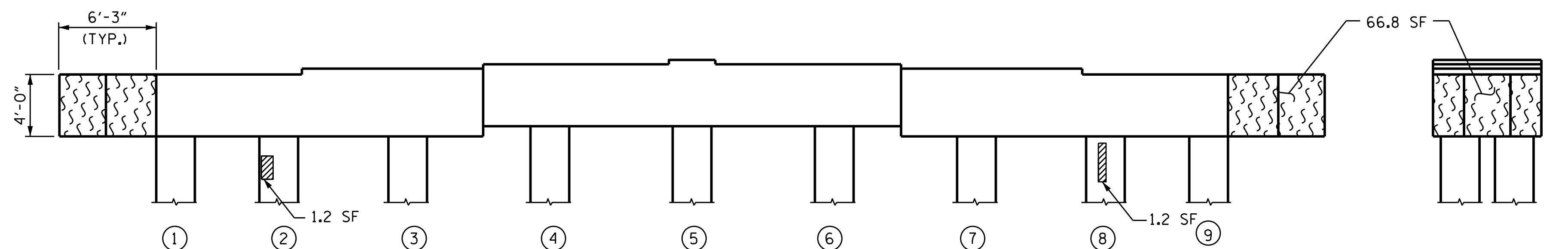
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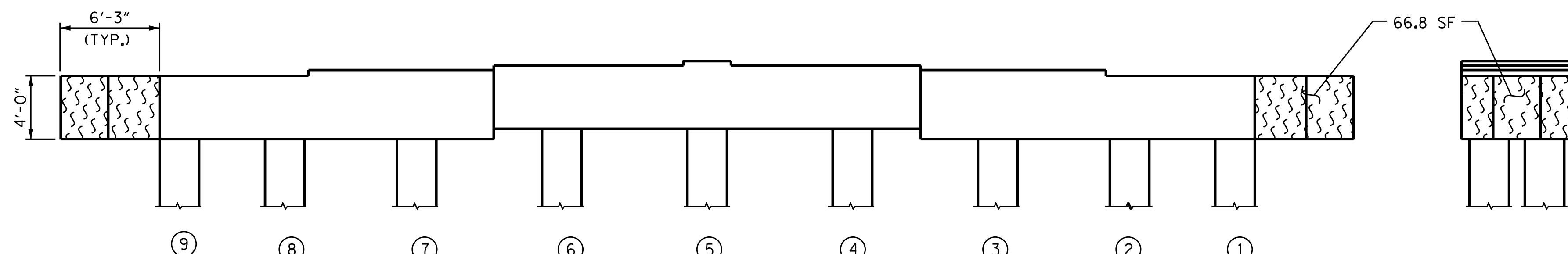
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 20	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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				
CAP	0.0			LF
COLUMN	0.0			
EPOXY COATING AND DEBRIS REMOVAL				
CAP	784.0		AREA SF	

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 20 OF 140

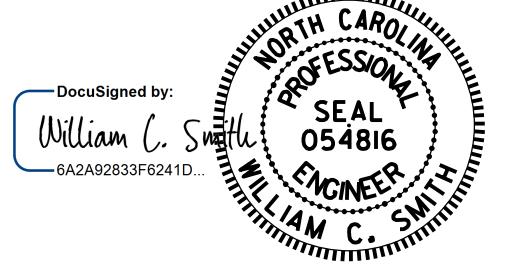
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

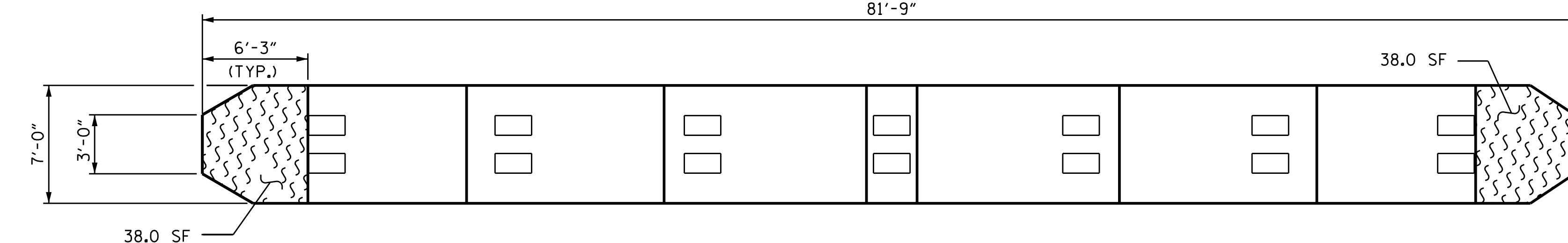
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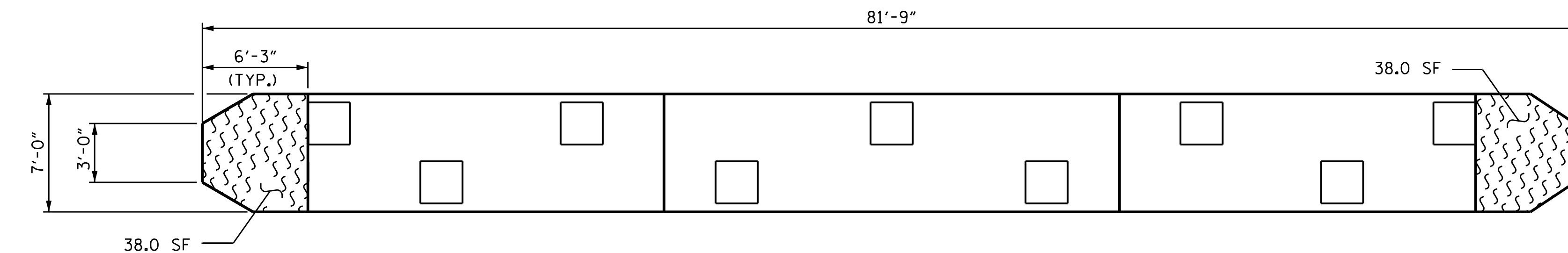
11/21/2025

REVISIONS
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED
1 3
2 4

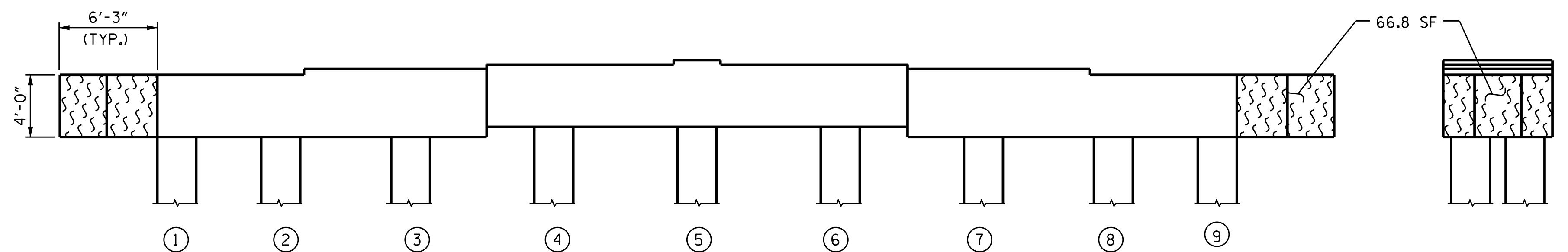
SHEET NO.
S-88
TOTAL SHEETS
217



TOP VIEW OF CAP

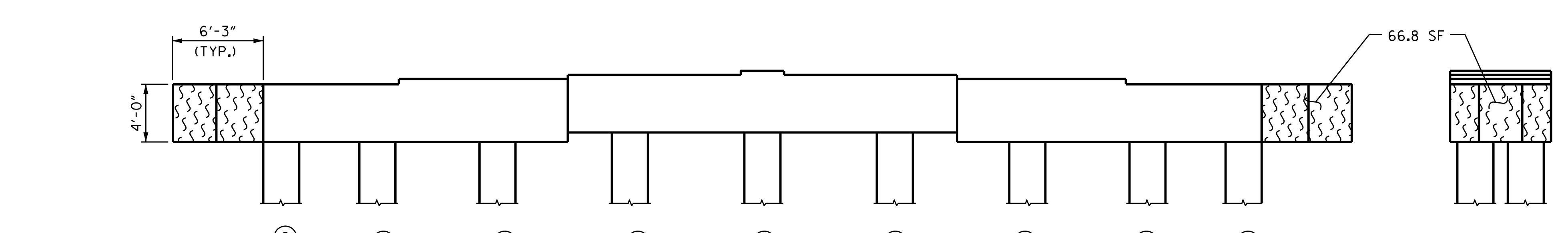


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 21	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 21 OF 140

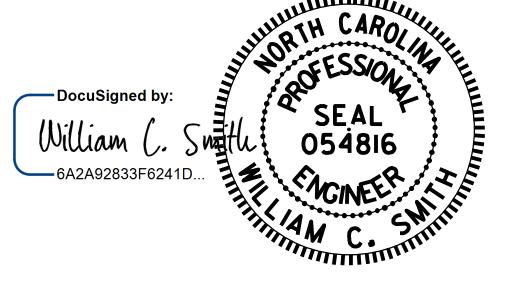
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 21



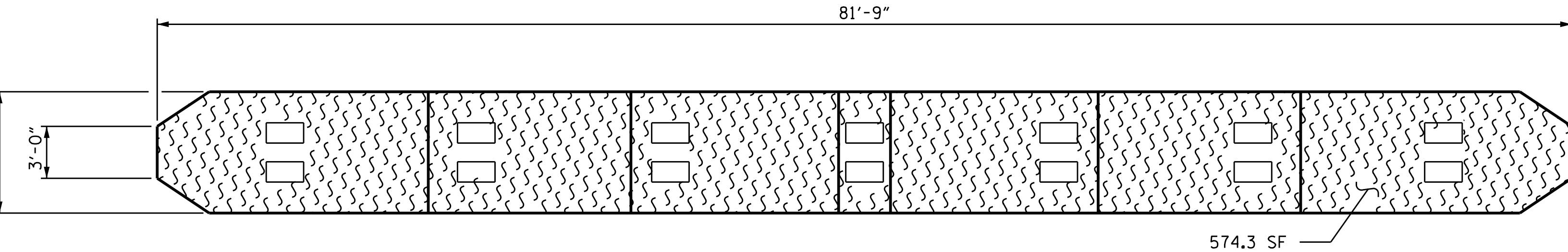
11/21/2025

REVISIONS SHEET NO.

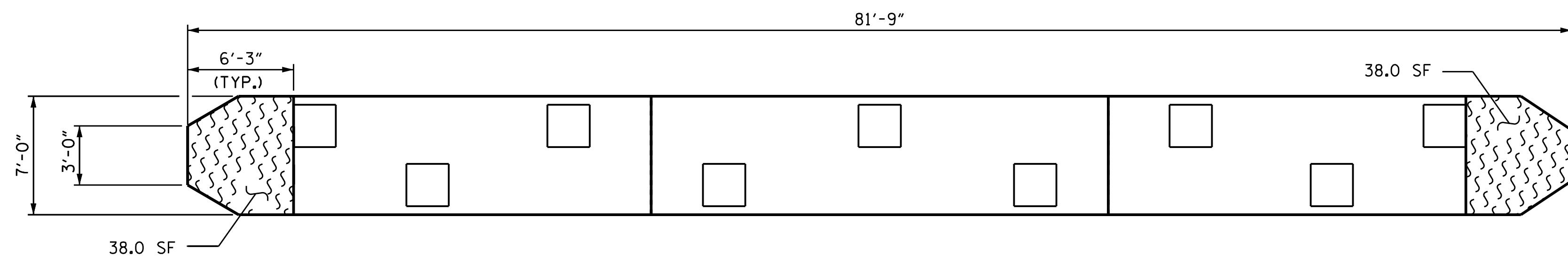
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FINAL UNLESS ALL
SIGNATURES COMPLETED

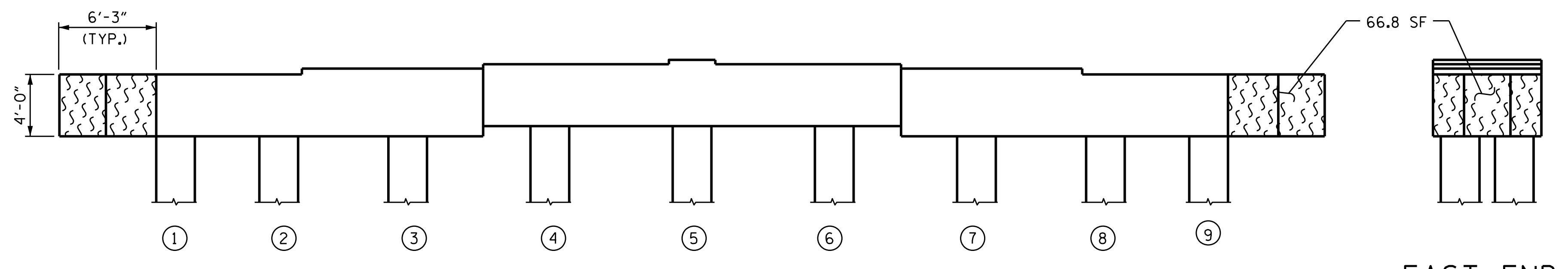
TOTAL SHEETS
217



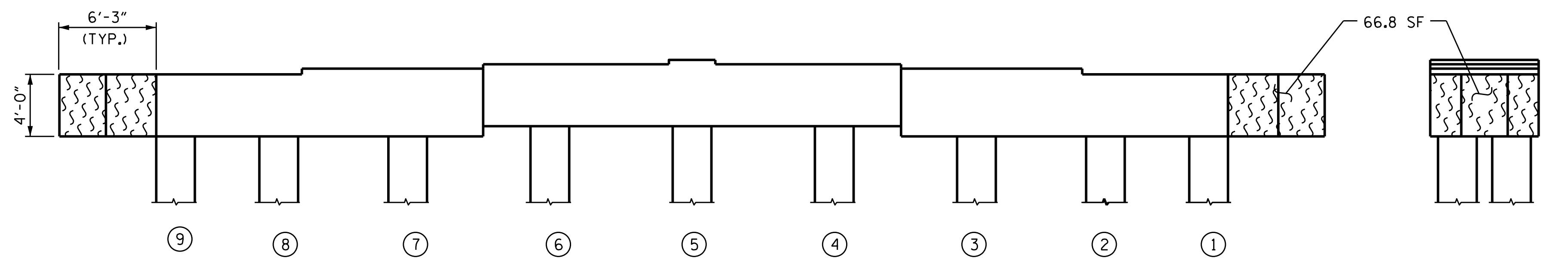
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 22	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 22 OF 140

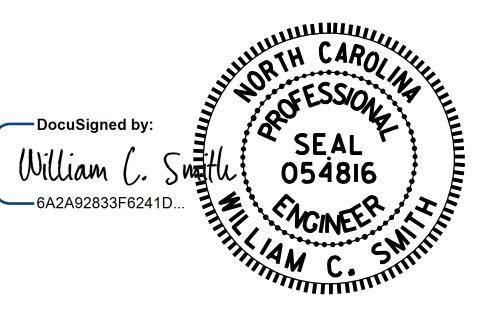
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 22



11/21/2025

REVISIONS

SHEET NO.

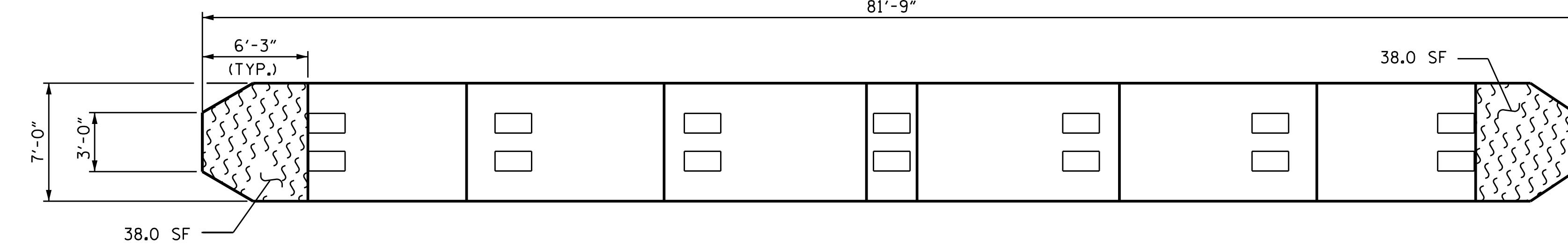
S-90

TOTAL SHEETS

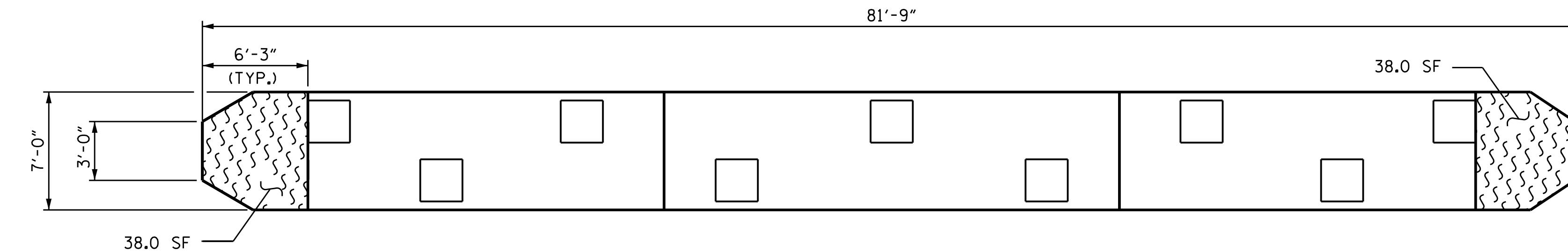
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FINAL UNLESS ALL
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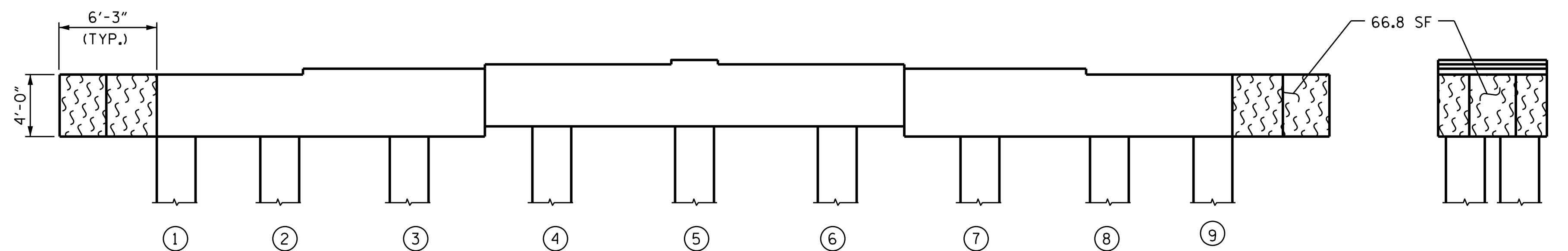
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1			3		
2			4		



TOP VIEW OF CAP

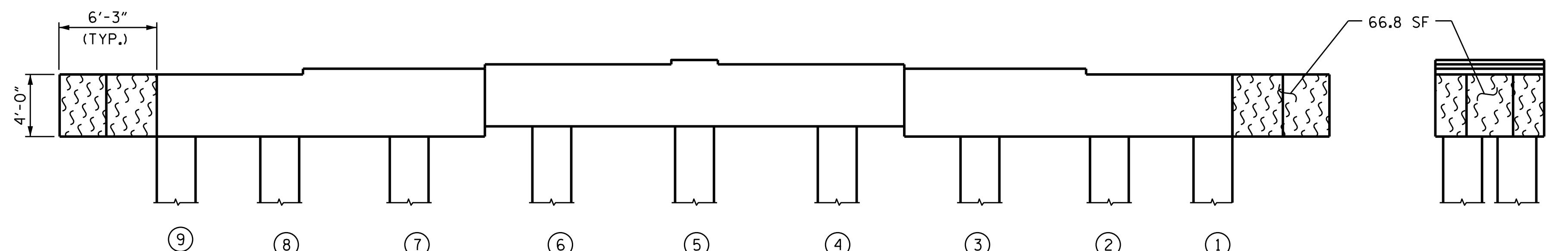


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 23	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 23 OF 140

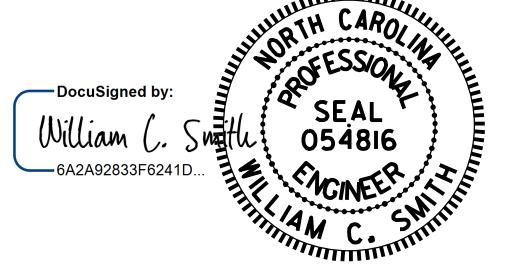
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

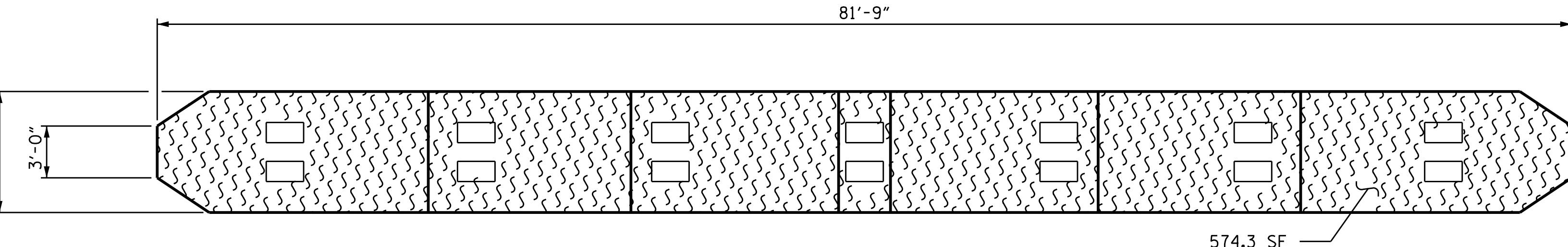
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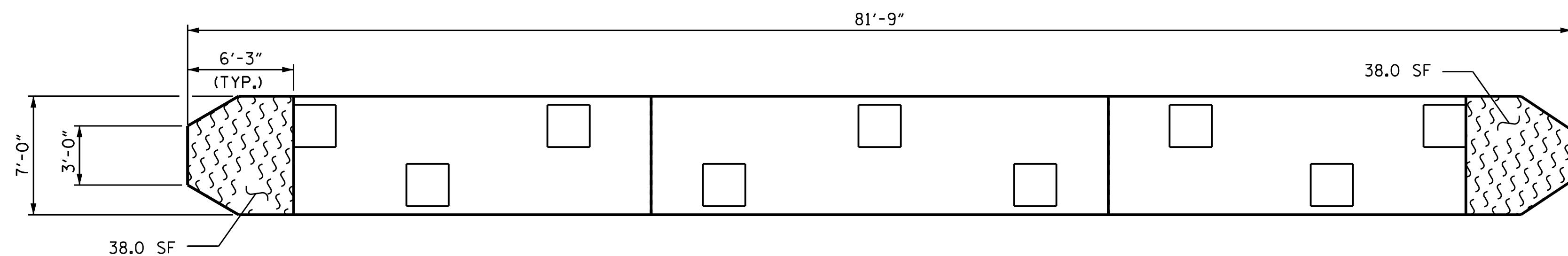
11/21/2025

REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-91
2			4			TOTAL SHEETS 217

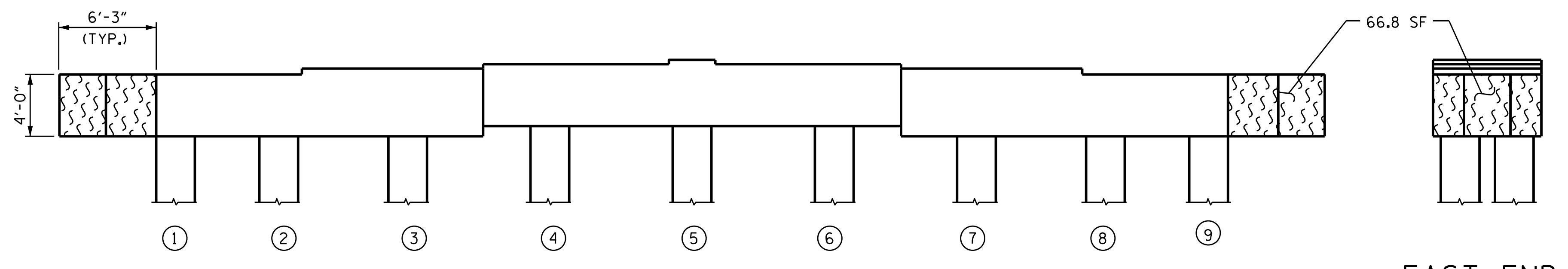
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FINAL UNLESS ALL
SIGNATURES COMPLETED



TOP VIEW OF CAP

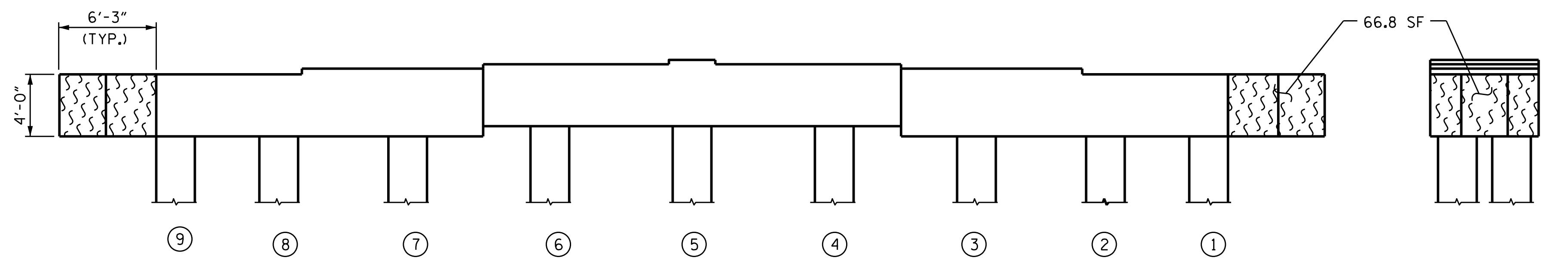


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 24	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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				
CAP	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY COATING AND DEBRIS REMOVAL				
CAP	784.0	0.0		

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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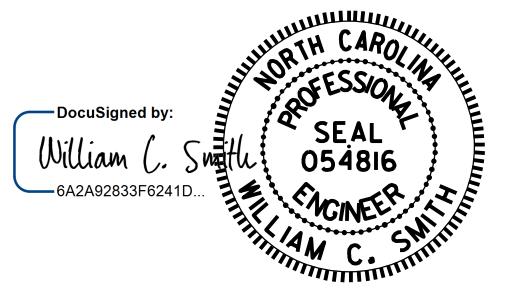
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 24



11/21/2025

REVISIONS		SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	1	3	S-92
	2	4	TOTAL SHEETS 217

REPAIR QUANTITY TABLE

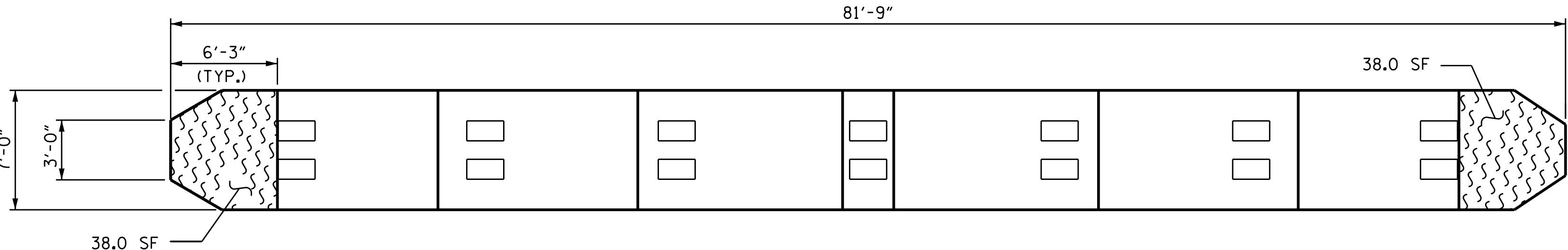
BENT 25	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION	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.

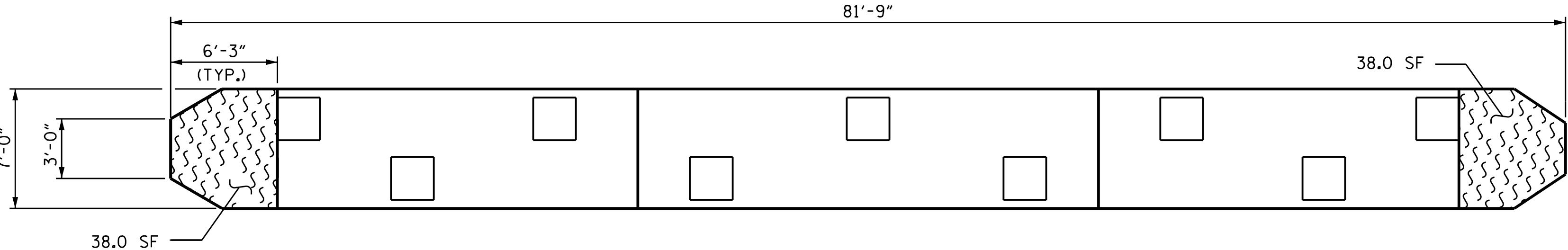
NOTES:

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

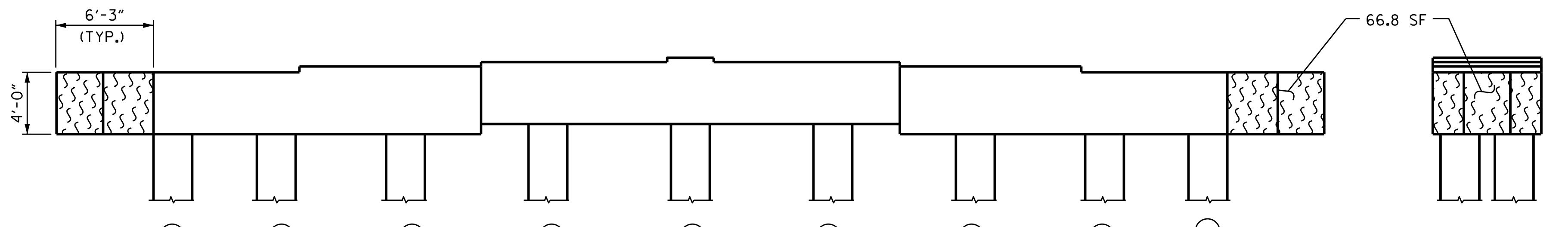
■■■	SHOTCRETE REPAIR
■■■■■	CONCRETE REPAIR
ERI	EPOXY RESIN INJECTION
(P)	PILE
■■■■■■■■■■	EPOXY COATING



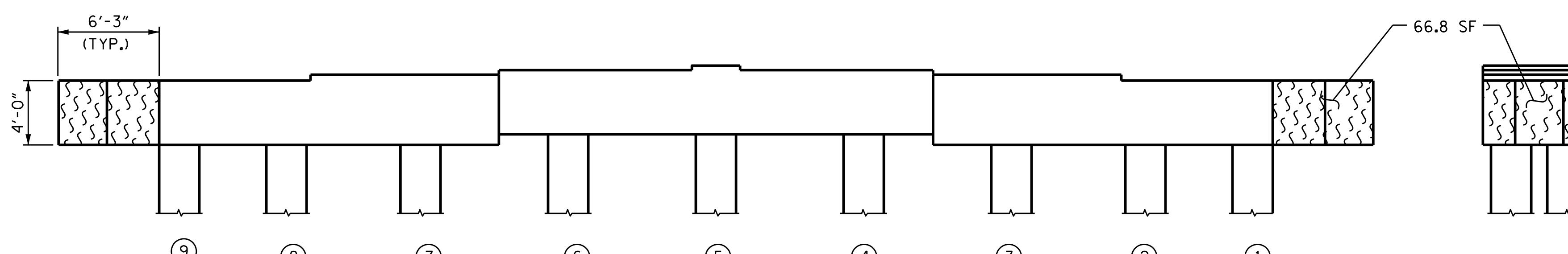
SPAN 26
SPAN 25



SPAN 26
SPAN 25



EAST END



WEST END

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 25 OF 139

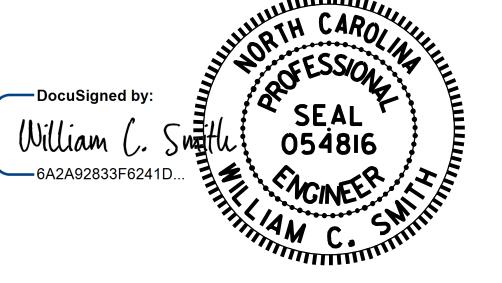
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 25



11/21/2025

REVISIONS

SHEET NO.

S-93

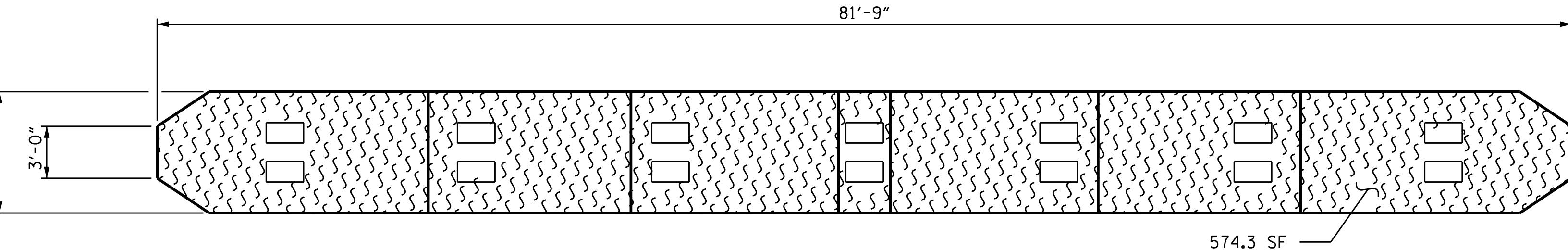
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SIGNATURES COMPLETED

TOTAL SHEETS

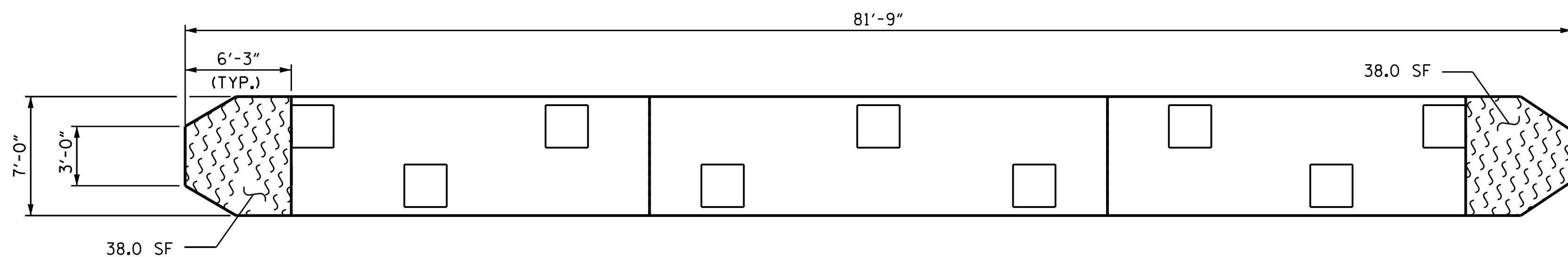
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DRAWN BY : S. T. SANDOR DATE : 5/2/24
CHECKED BY : W. C. SMITH DATE : 5/7/24

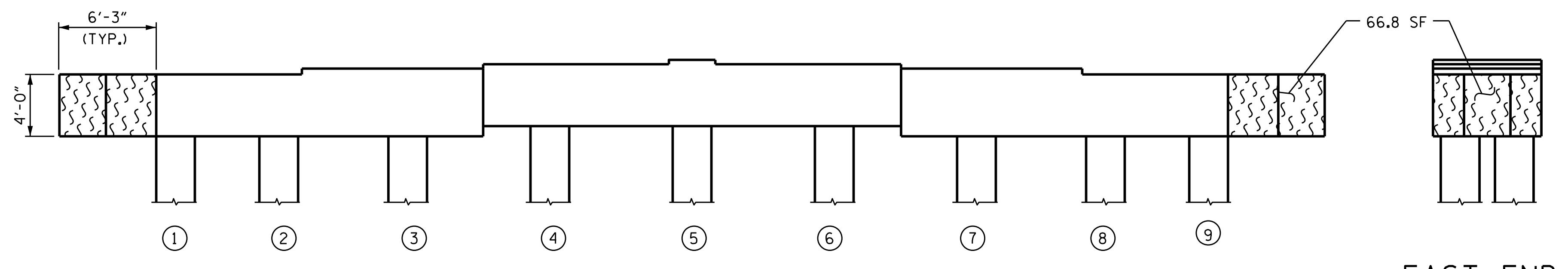
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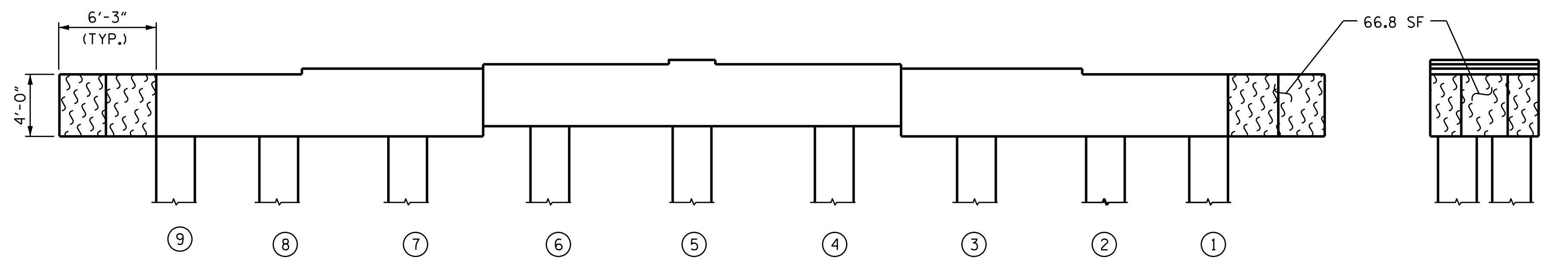
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 26	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 26 OF 140

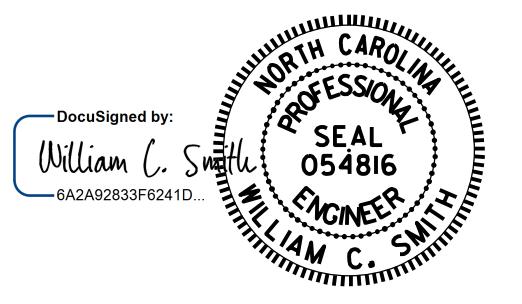
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

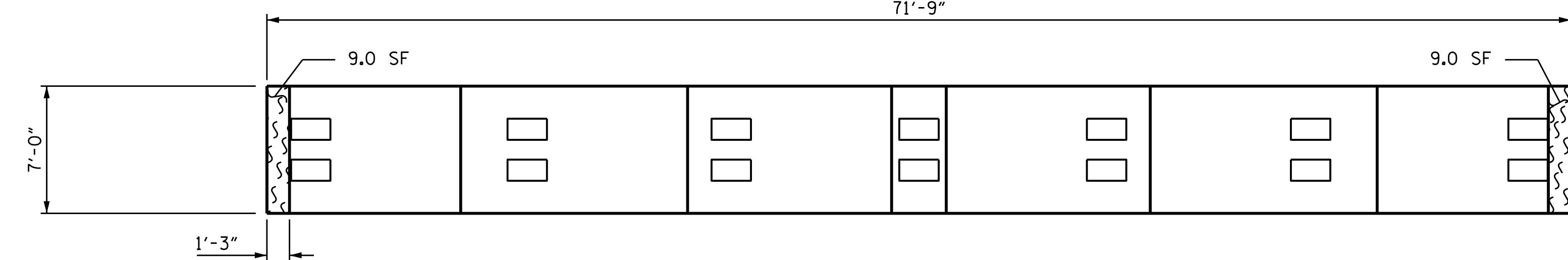
BENT 26



11/21/2025

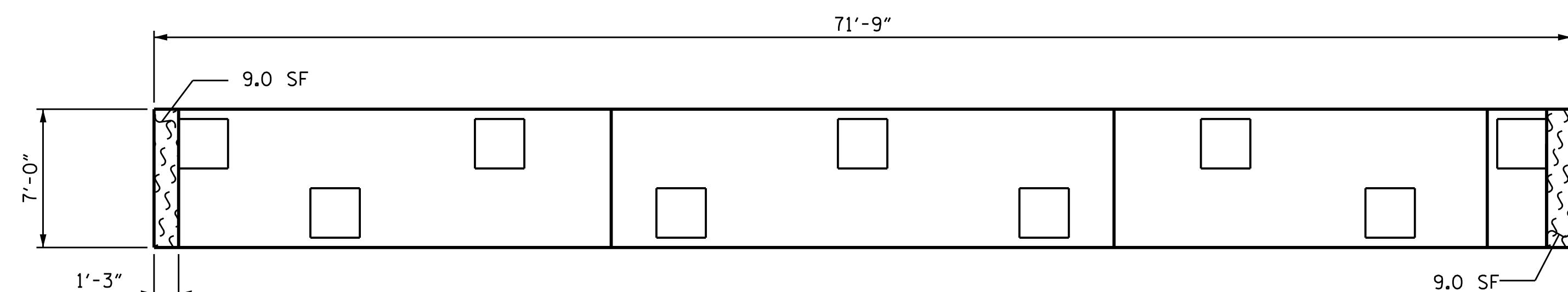
REVISIONS		SHEET NO.	
1	3	2	4
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

S-94
TOTAL SHEETS 217



TOP VIEW OF CAP

SPAN 28
SPAN 27



BOTTOM VIEW OF CAP

SPAN 27
SPAN 28

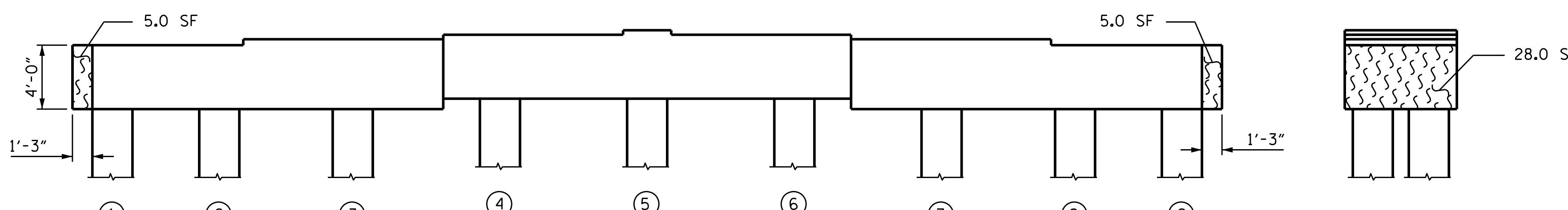
REPAIR QUANTITY TABLE

BENT 27	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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			

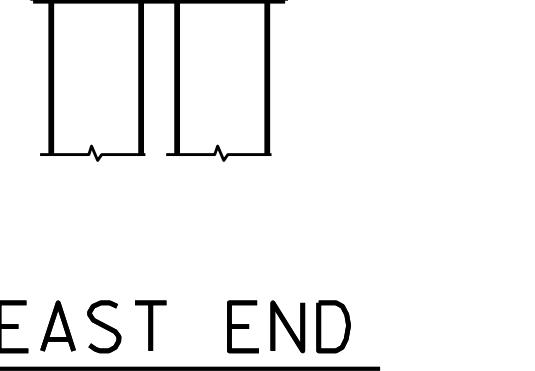
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

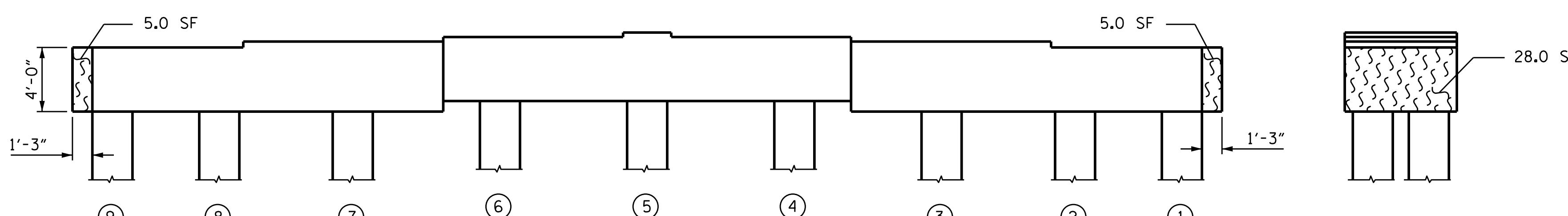
FOR CAP AND COLUMN REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET. COLUMNS ARE 30" SQUARE PRESTRESSED CONCRETE PILES.



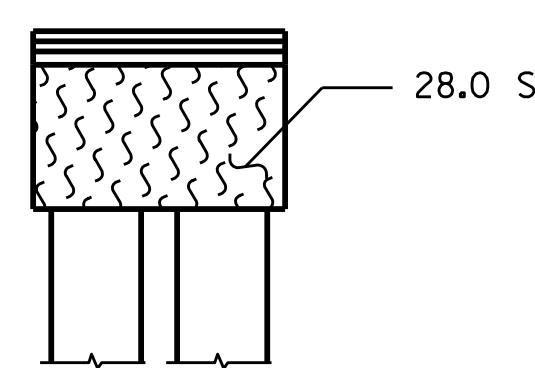
ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



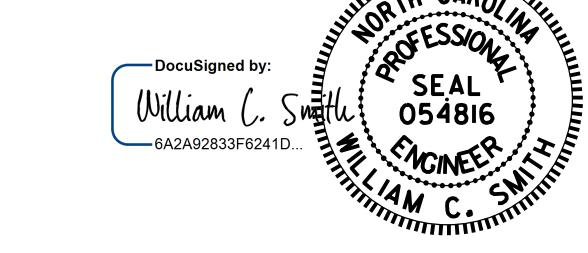
EAST END



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)



WEST END



11/21/2025

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

SHEET 27 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

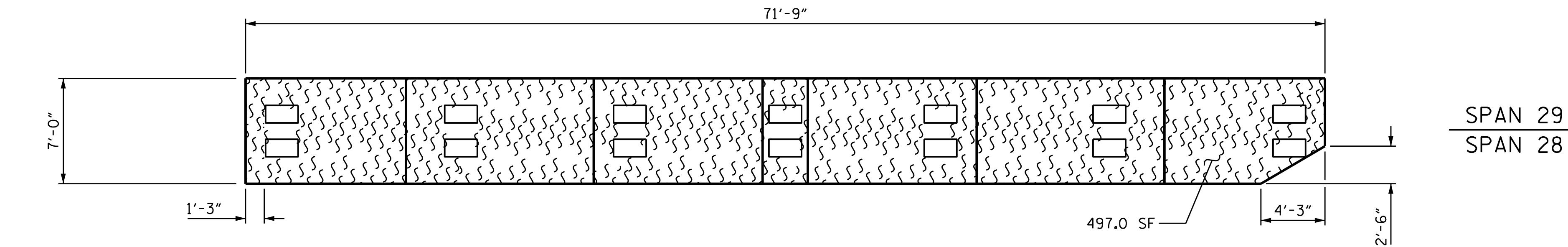
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DRAWN BY : S. T. SANDOR DATE : 5/2/24
CHECKED BY : W. C. SMITH DATE : 5/7/24

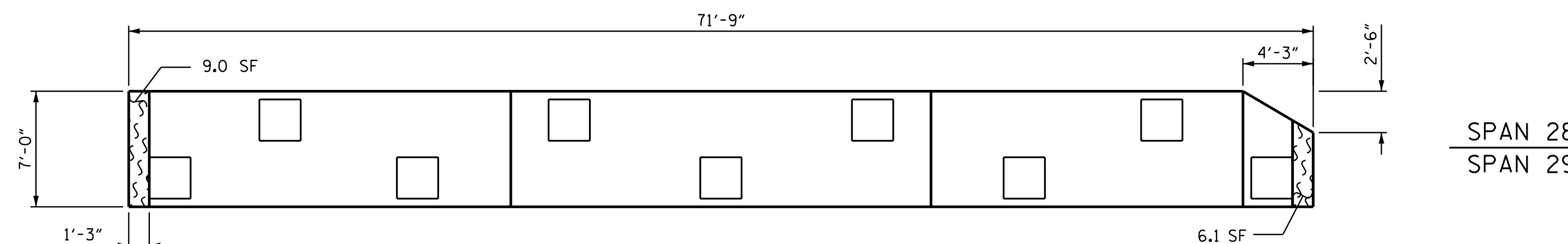
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SIGNATURES COMPLETED

REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-95
1			3			
2			4			

TOTAL SHEETS 217



TOP VIEW OF CAP



BOTTOM VIEW OF CAP

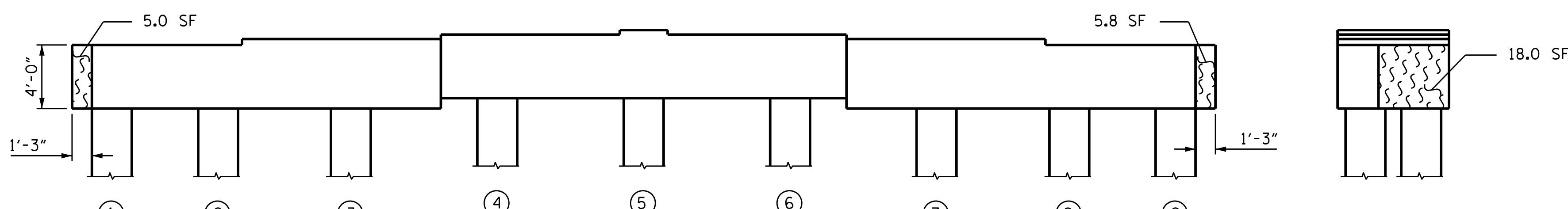
REPAIR QUANTITY TABLE

BENT 28	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
SHOTCRETE REPAIR				
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		

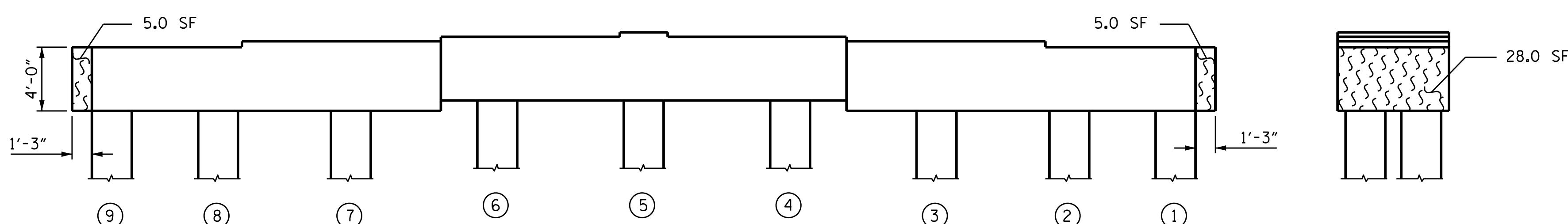
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES:

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



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 28 OF 140

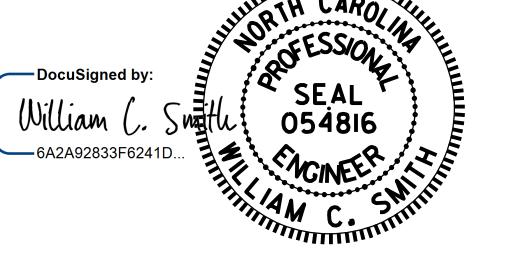
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 28



11/21/2025

REVISIONS

SHEET NO.

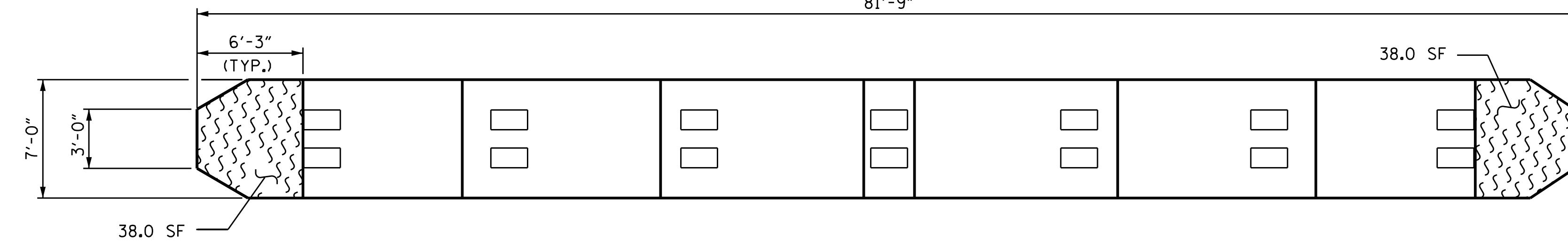
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TOTAL SHEETS

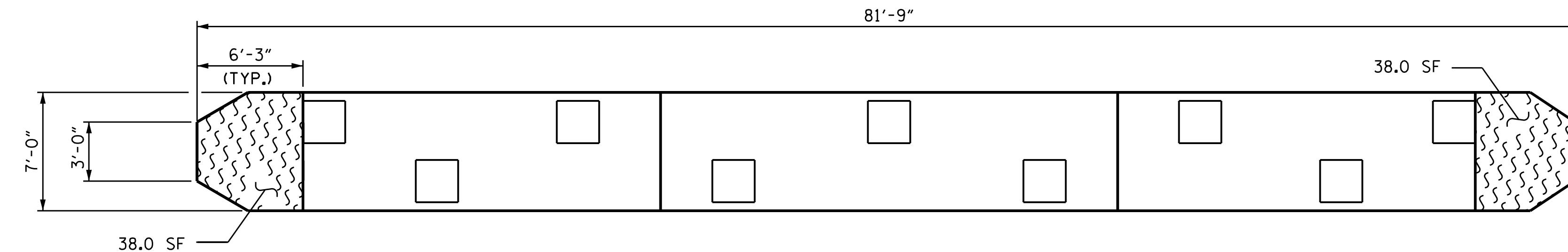
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DRAWN BY : S. T. SANDOR DATE : 06/2024
CHECKED BY : W. C. SMITH DATE : 07/2024

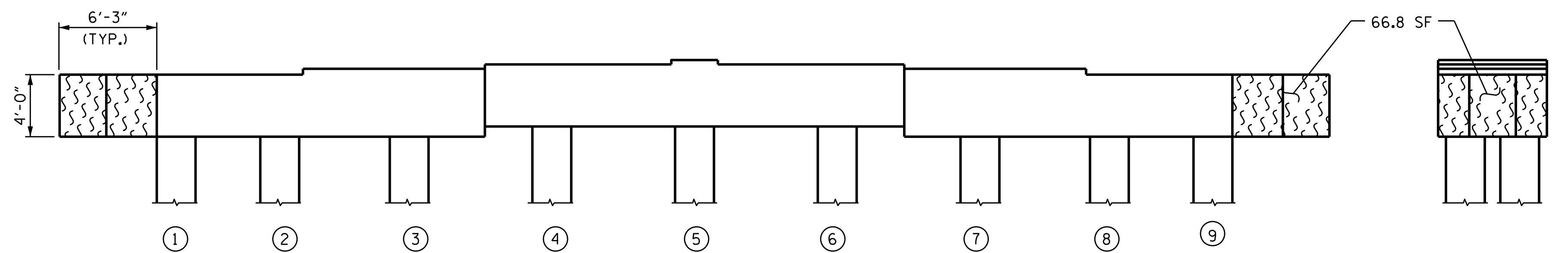
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FINAL UNLESS ALL
SIGNATURES COMPLETED



TOP VIEW OF CAP

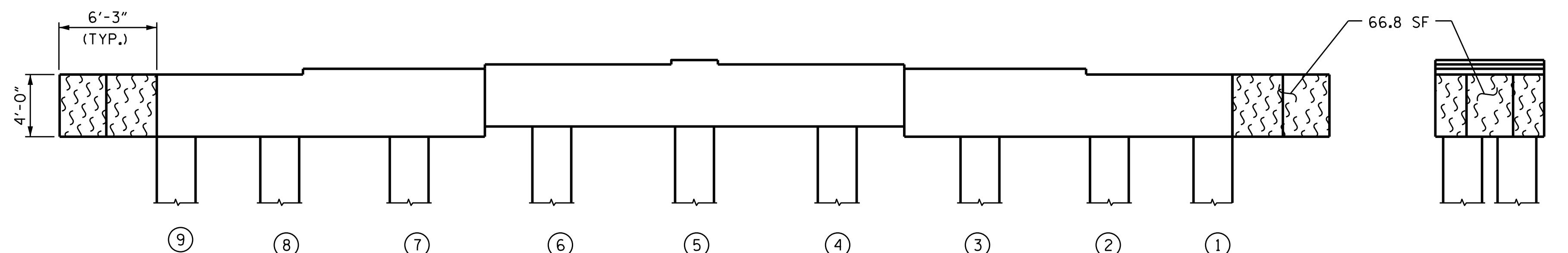


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

DRAWN BY : S. T. SANDOR DATE : 6/16/24
CHECKED BY : W. C. SMITH DATE : 7/24

11/21/2025

REPAIR QUANTITY TABLE

BENT 29	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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

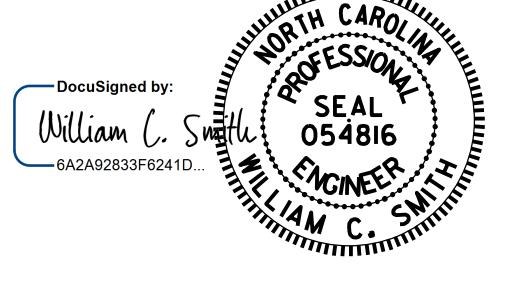
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

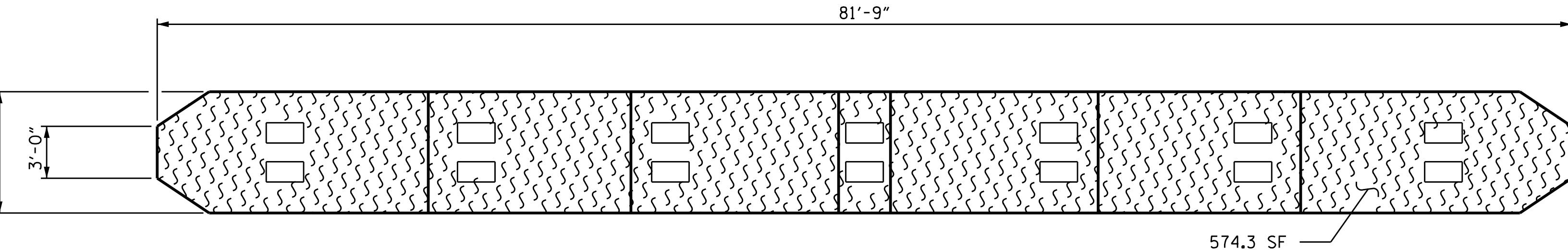
BENT 29



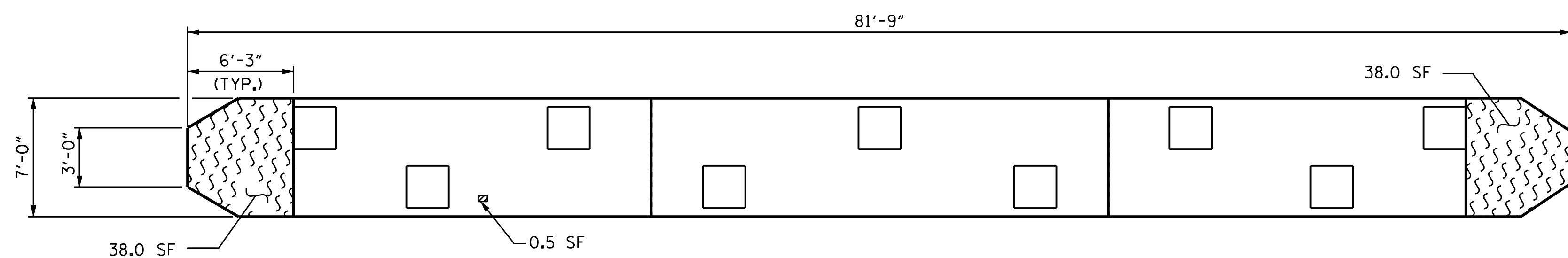
11/21/2025

REVISIONS		SHEET NO.	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

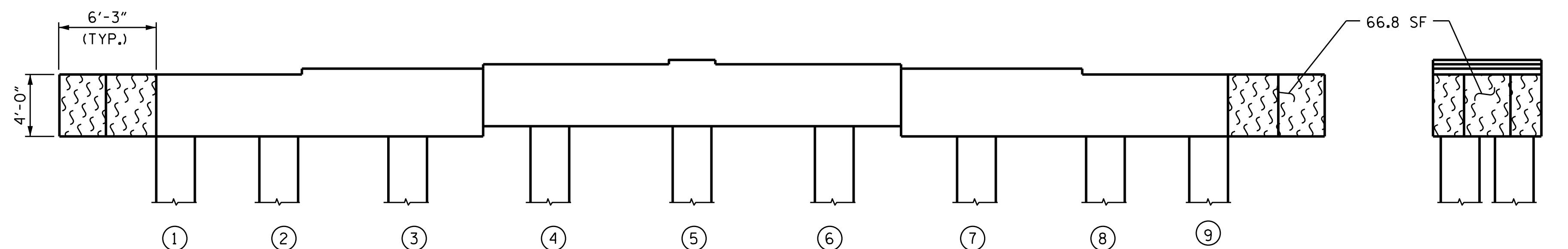
S-97
TOTAL SHEETS 217



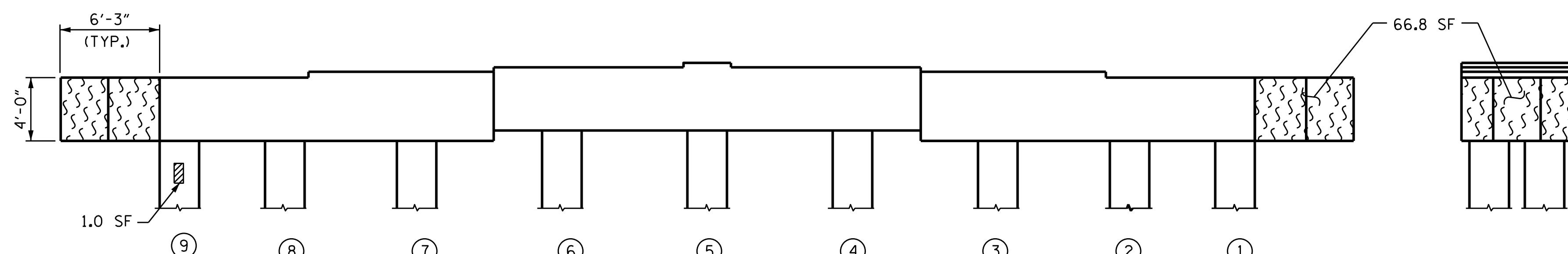
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 30	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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				
CAP	0.0			LF
COLUMN	0.0			
EPOXY COATING AND DEBRIS REMOVAL				
CAP	784.0		AREA SF	

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 30 OF 140

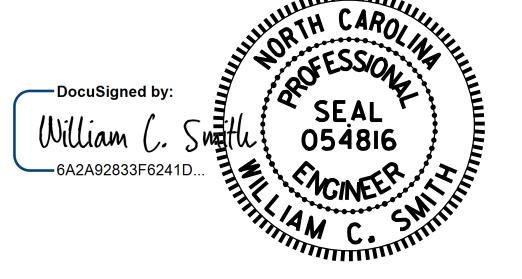
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

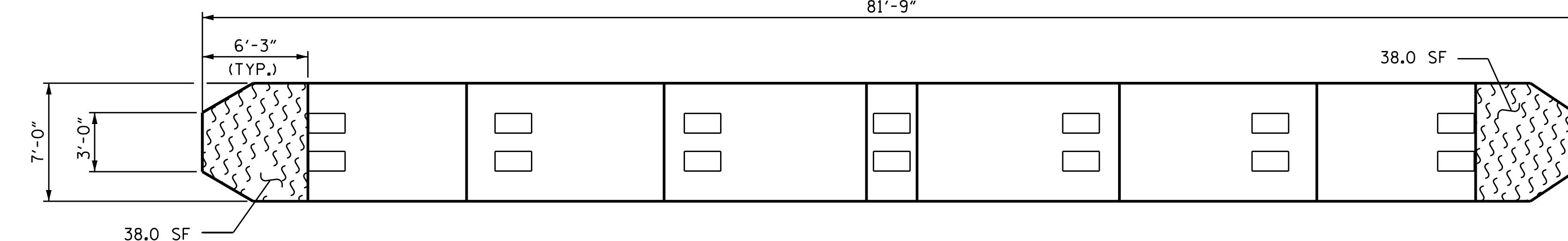
BENT 30



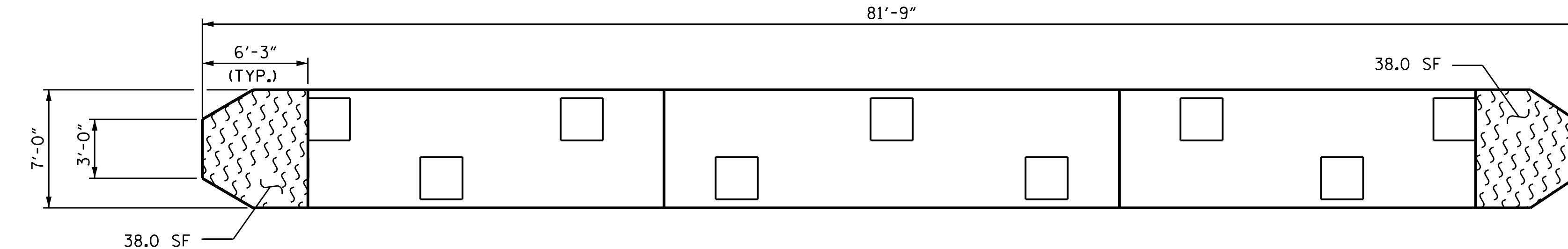
11/21/2025

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FINAL UNLESS ALL SIGNATURES COMPLETED 2	BY: DATE:	NO. 4	DATE:

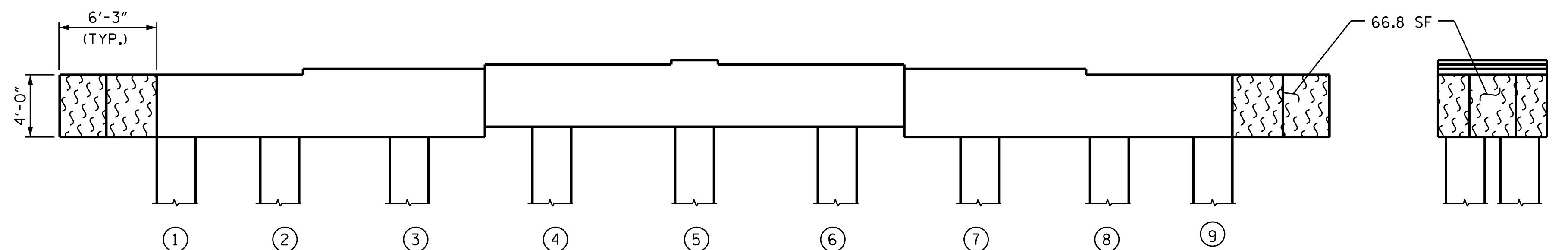
S-98
TOTAL SHEETS
217



TOP VIEW OF CAP

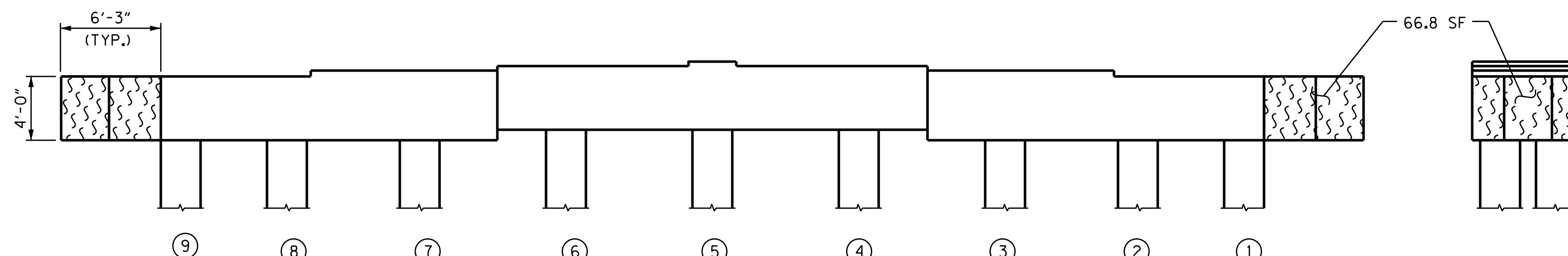


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 31	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 31 OF 140

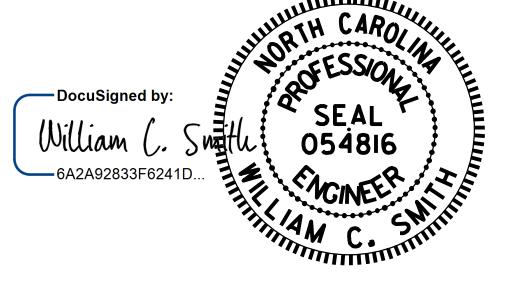
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 31



11/21/2025

REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-99
2			4			TOTAL SHEETS 217

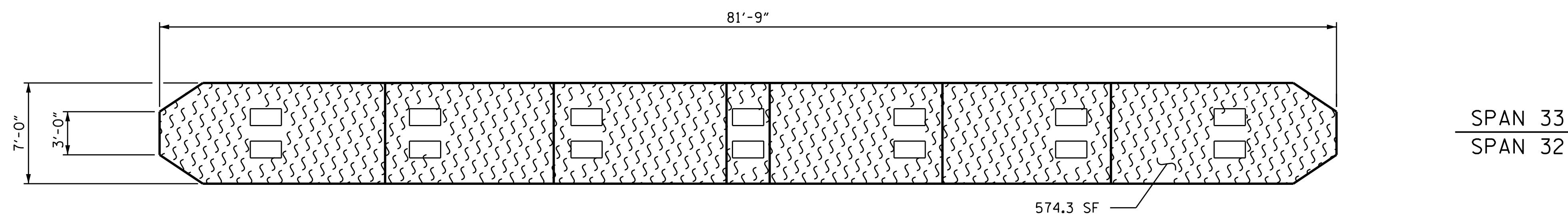
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FINAL UNLESS ALL
SIGNATURES COMPLETED

REPAIR QUANTITY TABLE

BENT 32	QUANTITIES		AREA SF	VOLUME CF
	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.

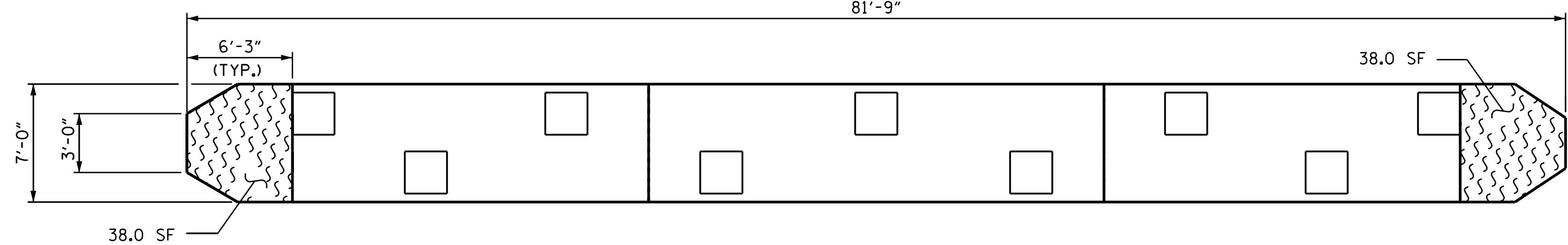
TOP VIEW OF CAP



81'-9"

574.3 SF

SPAN 33
SPAN 32

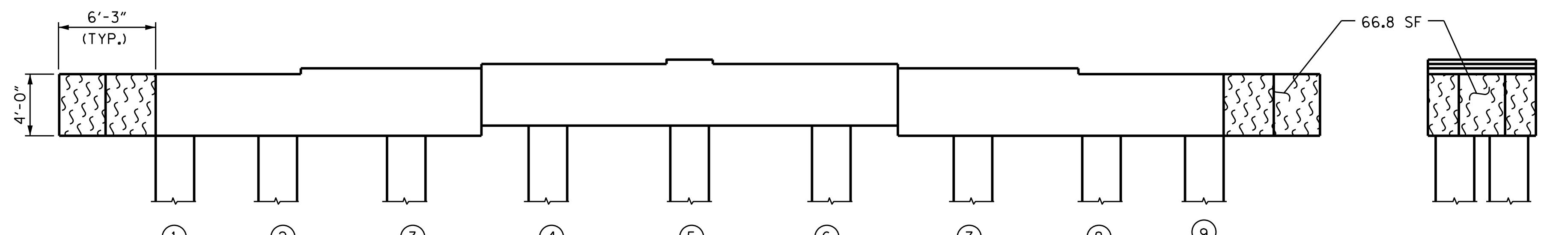


81'-9"

38.0 SF

SPAN 32
SPAN 33

BOTTOM VIEW OF CAP



ELEVATION

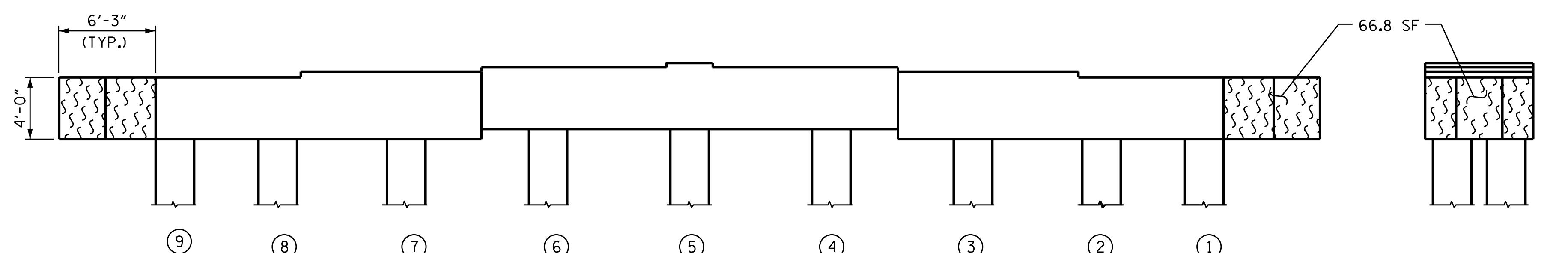
(SOUTH SIDE)
(LOOKING NORTH)

EAST END

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



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

WEST END

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 32 OF 140

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 32

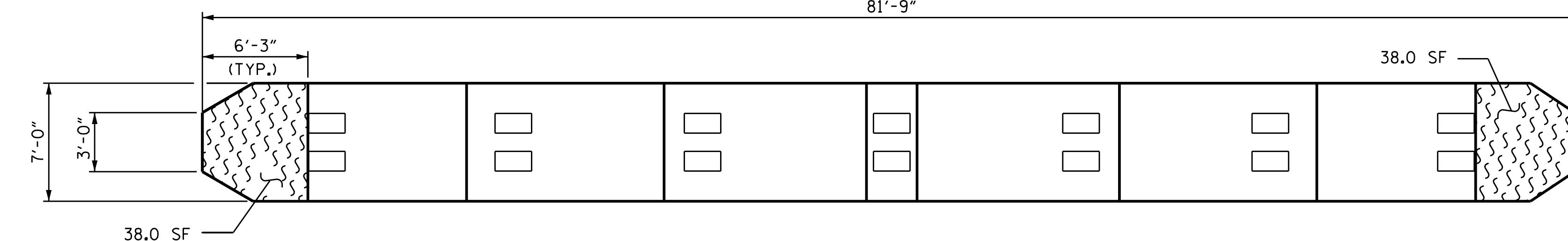


11/21/2025

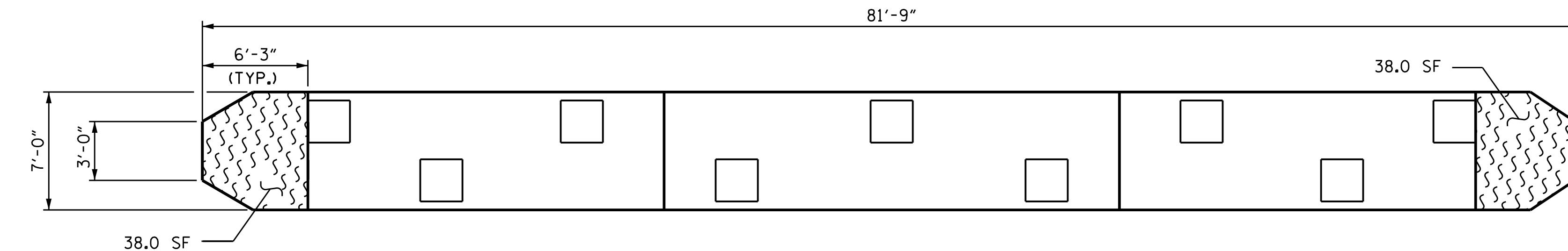
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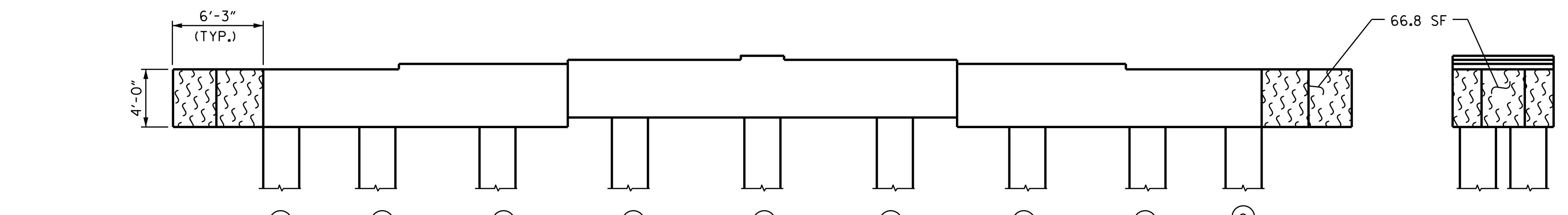
DRAWN BY : S. T. SANDOR DATE : 6/25/24
CHECKED BY : W. C. SMITH DATE : 7/2/24



TOP VIEW OF CAP

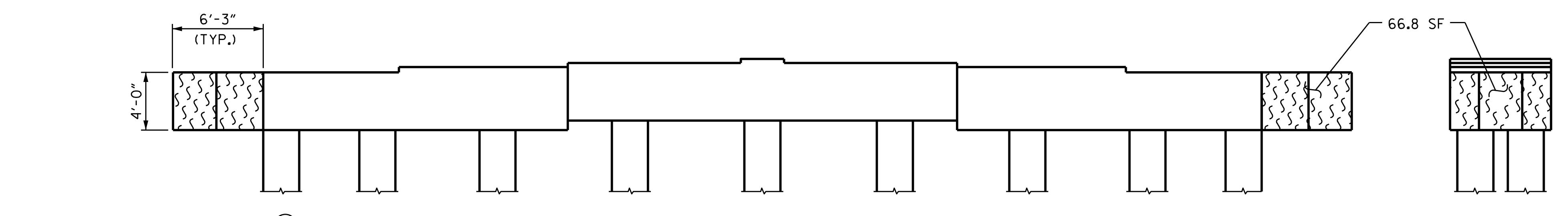


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 33	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 33 OF 140

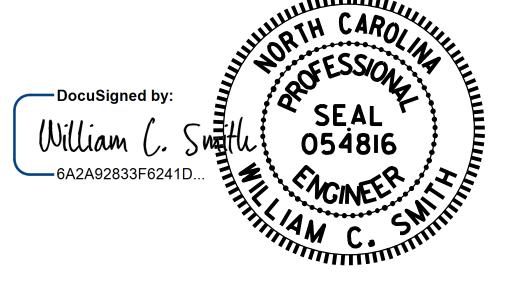
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 33

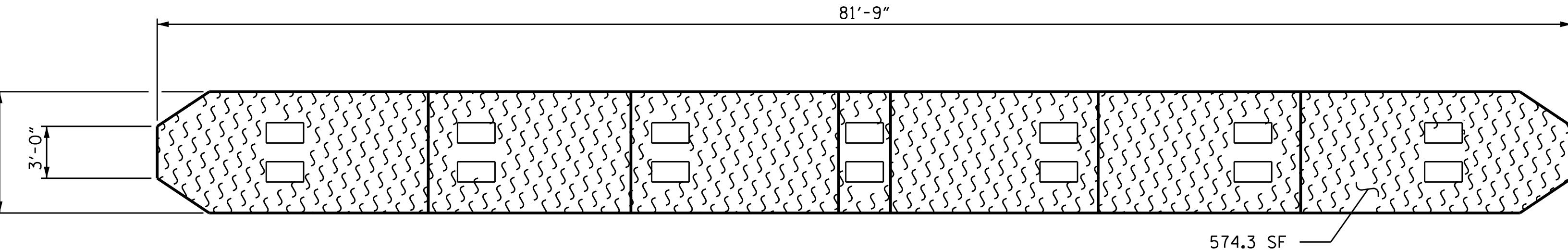


11/21/2025

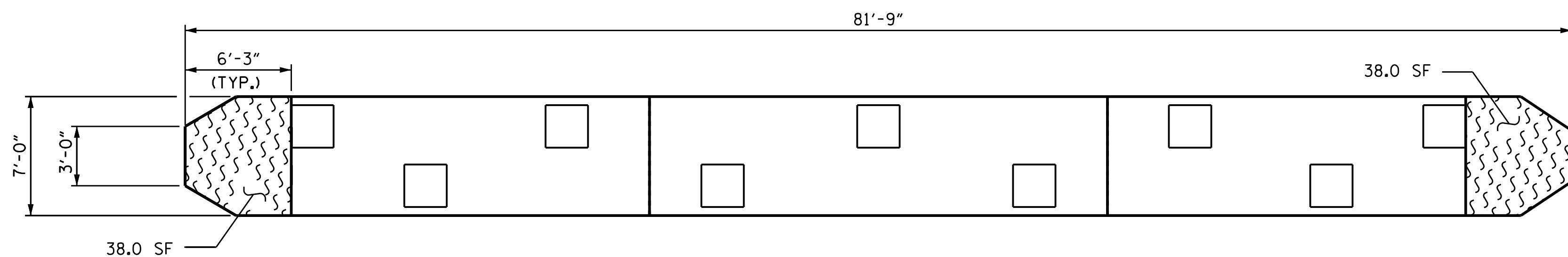
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FINAL UNLESS ALL
SIGNATURES COMPLETED

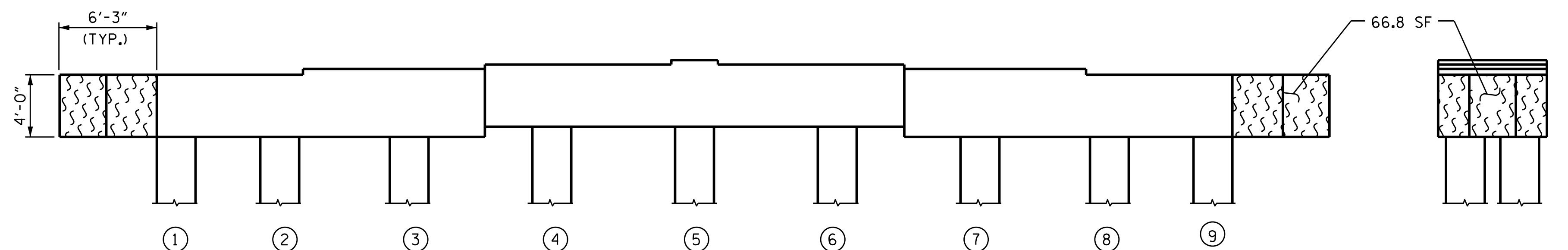
TOTAL SHEETS
217



TOP VIEW OF CAP

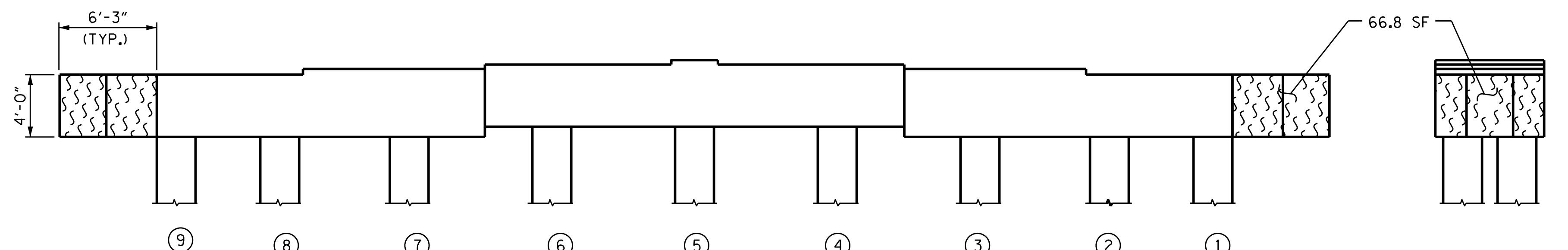


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 6/28/24

REPAIR QUANTITY TABLE

BENT 34	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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				
CAP	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY COATING AND DEBRIS REMOVAL				
CAP	784.0	0.0		

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

SHEET 34 OF 140

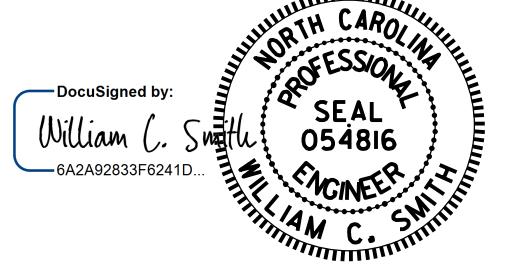
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 34

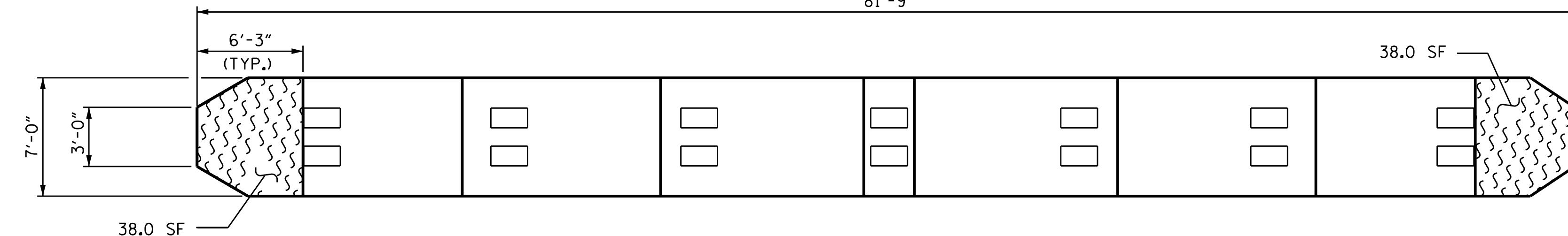


11/21/2025

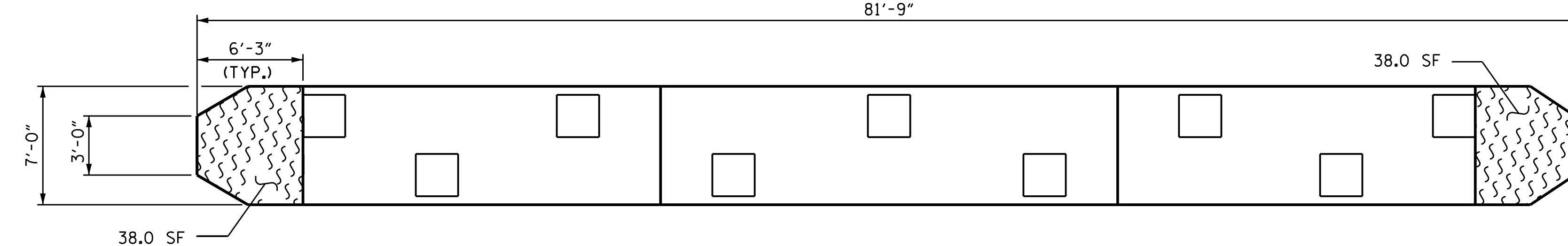
REVISIONS
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FINAL UNLESS ALL
SIGNATURES COMPLETED

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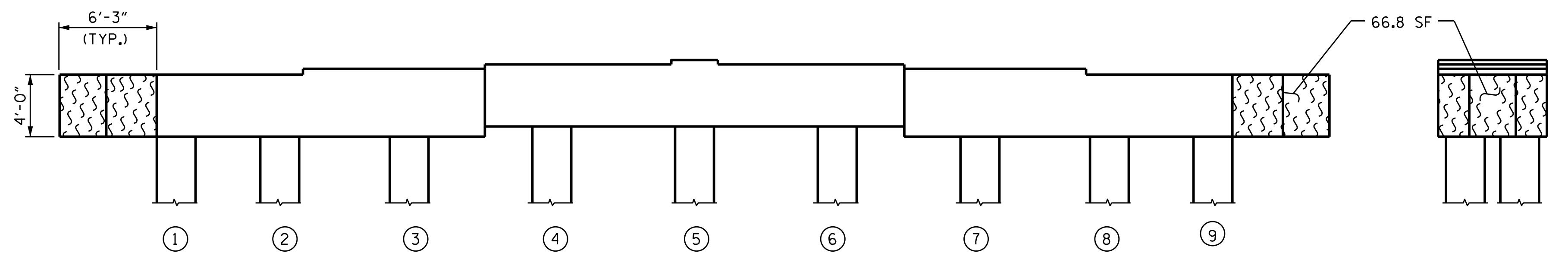
SHEET NO.
S-102
TOTAL SHEETS
217



TOP VIEW OF CAP

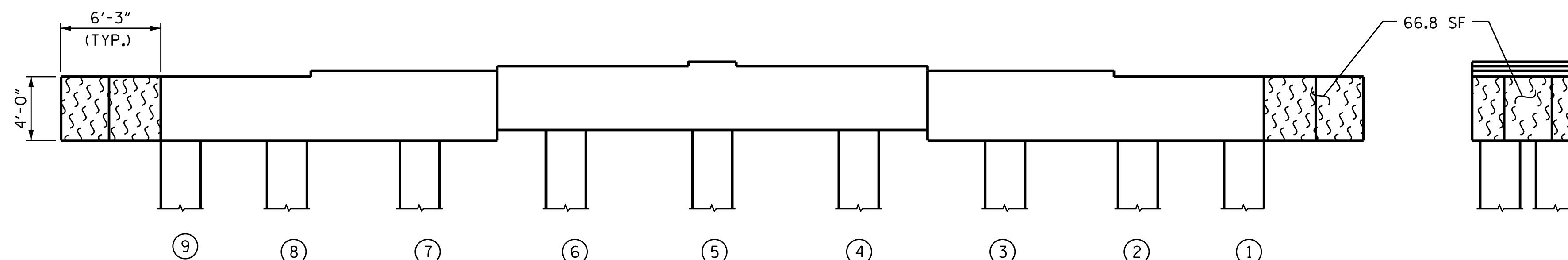


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 35	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 35 OF 140

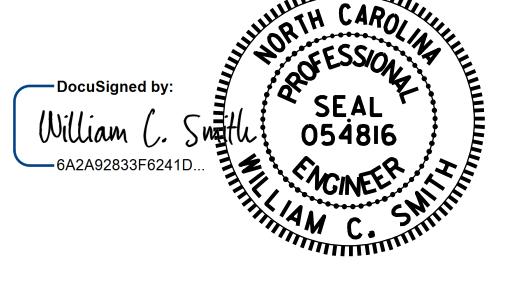
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 35



11/21/2025

REVISIONS		SHEET NO.	
1	3	1	S-103
2	4	2	TOTAL SHEETS 217

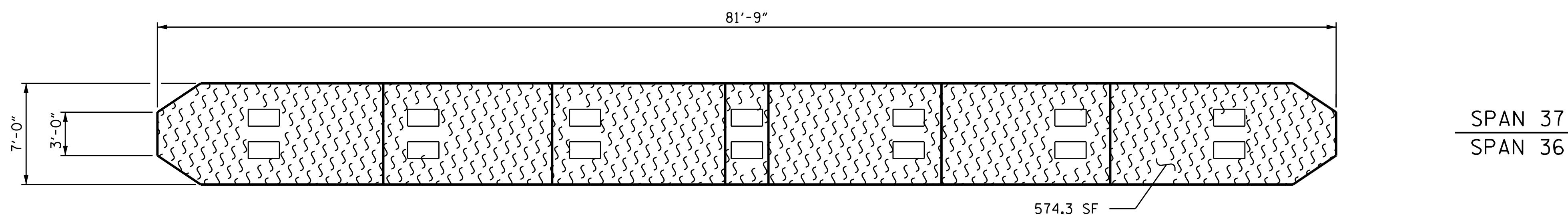
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REPAIR QUANTITY TABLE

BENT 36	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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.

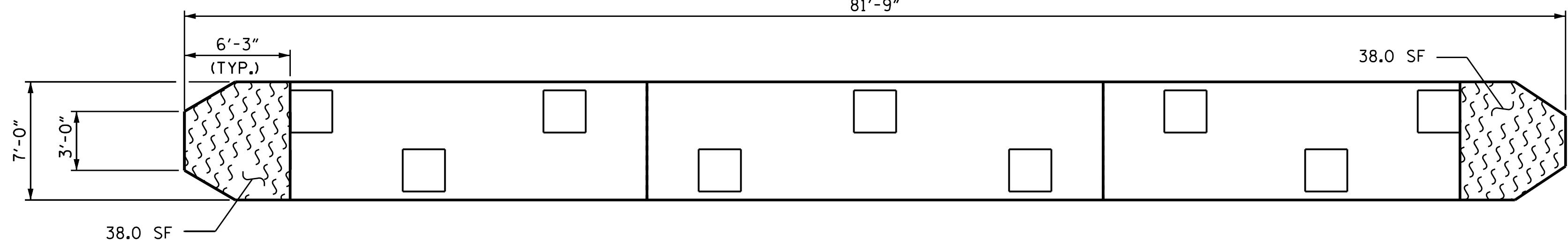
TOP VIEW OF CAP



SPAN 37
SPAN 36

81'-9"

574.3 SF

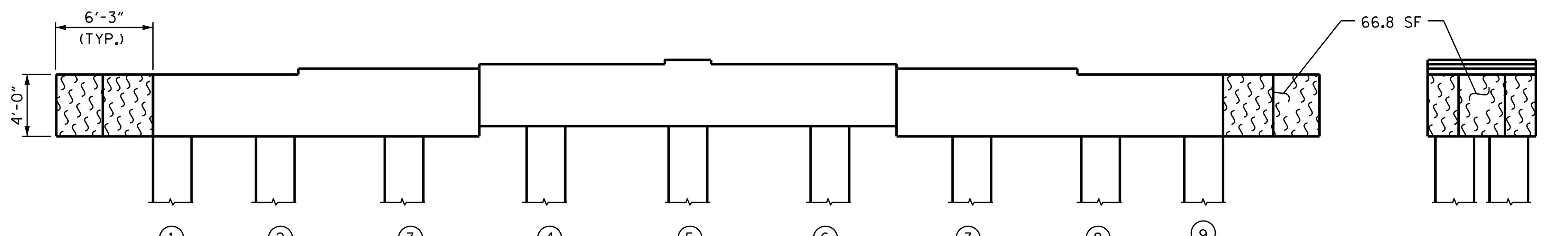


SPAN 36
SPAN 37

81'-9"

38.0 SF

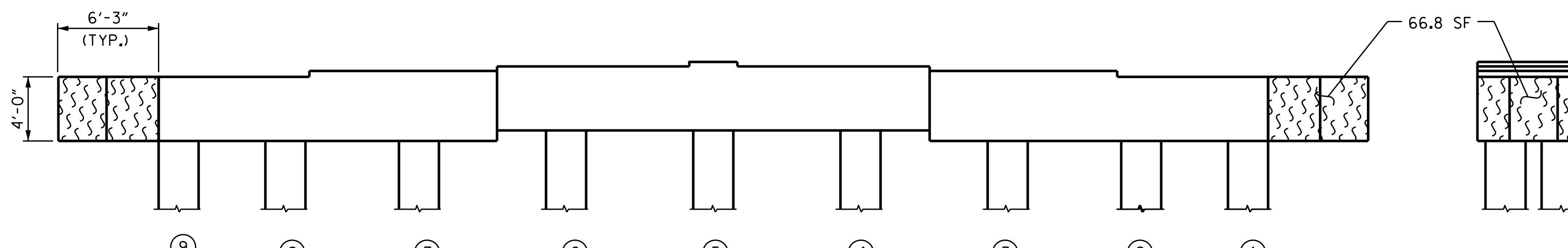
BOTTOM VIEW OF CAP



EAST END

ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

DOCUMENT NOT CONSIDERED
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1
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REVISIONS
SHEET NO.
S-104
TOTAL SHEETS
217

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

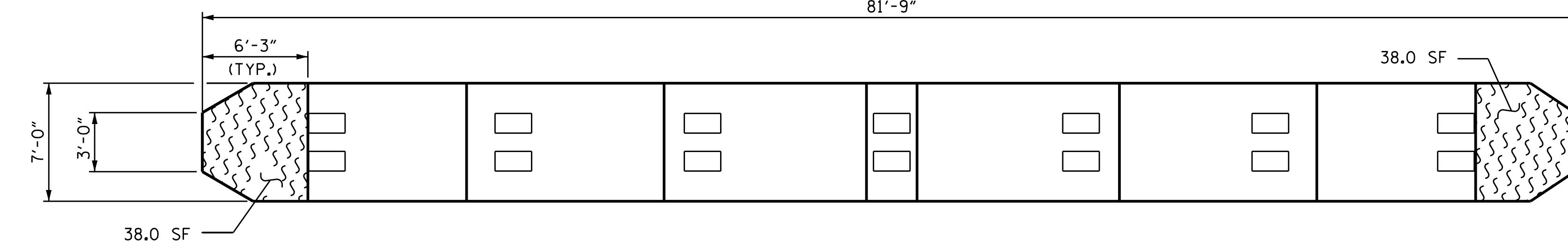
SHEET 36 OF 140

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE REPAIR

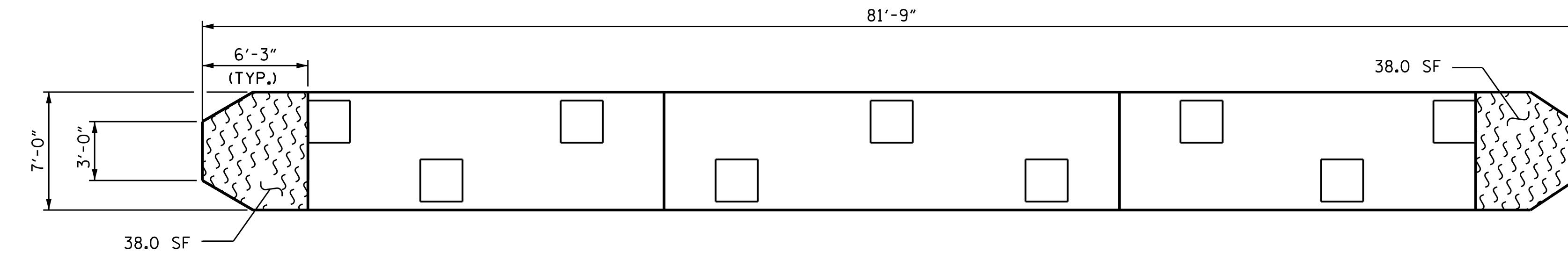
BENT 36



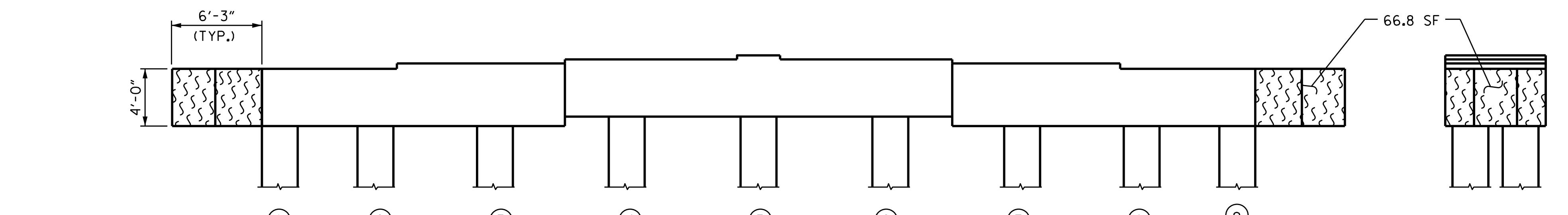
11/21/2025



TOP VIEW OF CAP

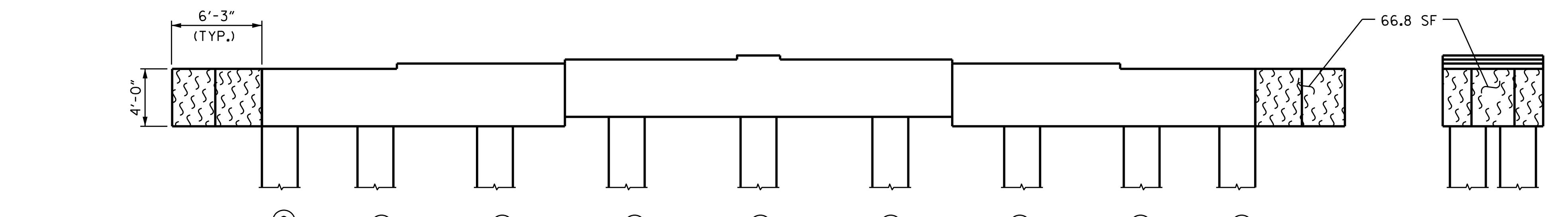


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 37	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 37 OF 140

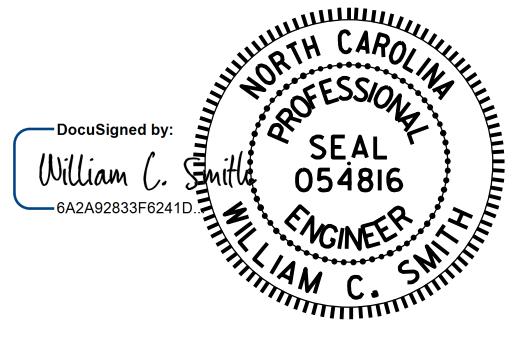
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 37



DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 7/8/24

11/21/2025

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FINAL UNLESS ALL
SIGNATURES COMPLETED

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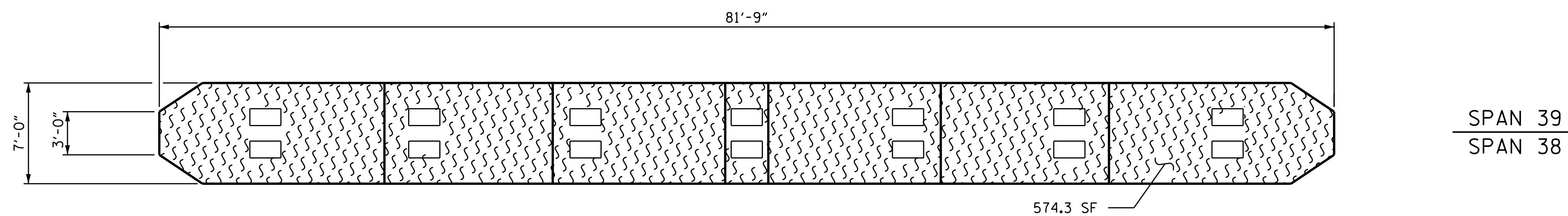
REVISIONS
SHEET NO.
S-105
TOTAL SHEETS
217

REPAIR QUANTITY TABLE

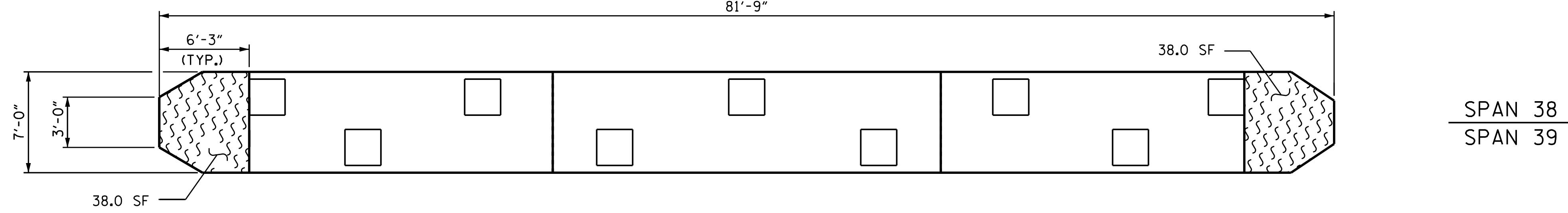
BENT 38	QUANTITIES		AREA SF	VOLUME CF
	ESTIMATE	ACTUAL		
SHOTCRETE REPAIR	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
CONCRETE REPAIR				
CAP (VERTICAL FACE)	0.0	0.0		
CAP (HORIZONTAL FACE)	0.0	0.0		
COLUMN	0.0	0.0		
EPOXY RESIN INJECTION	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.

TOP VIEW OF CAP

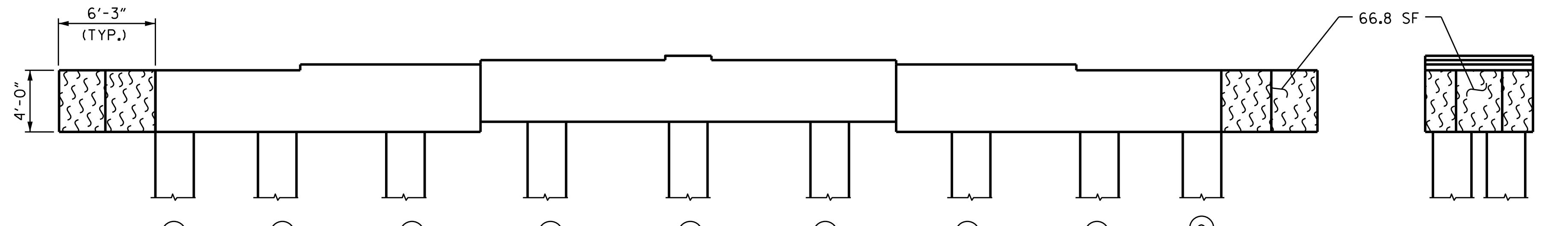


BOTTOM VIEW OF CAP



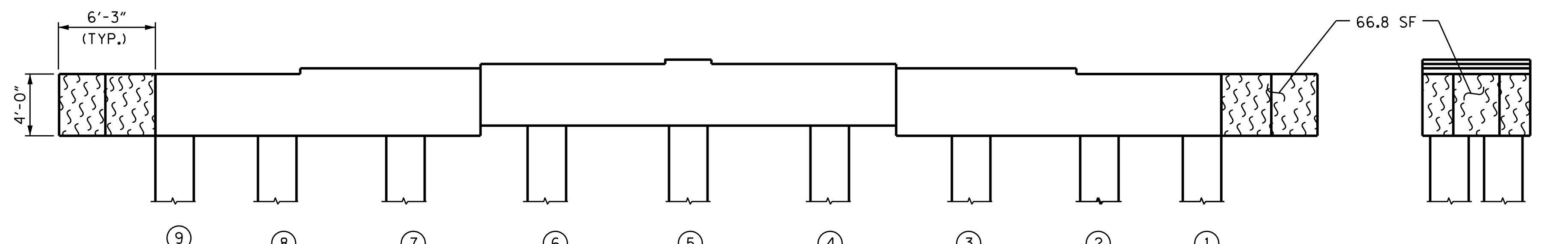
NOTES:

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



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

PROJECT NO. 15BPR.137

BEAUFORT COUNTY

BRIDGE NO. 060353

SHEET 38 OF 140

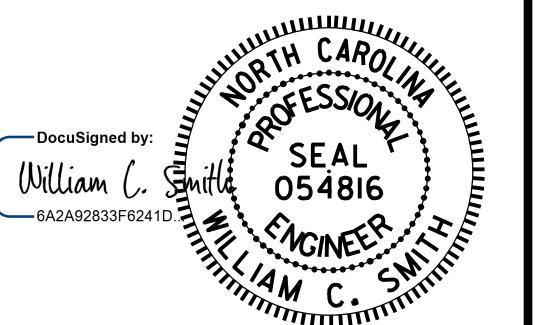
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

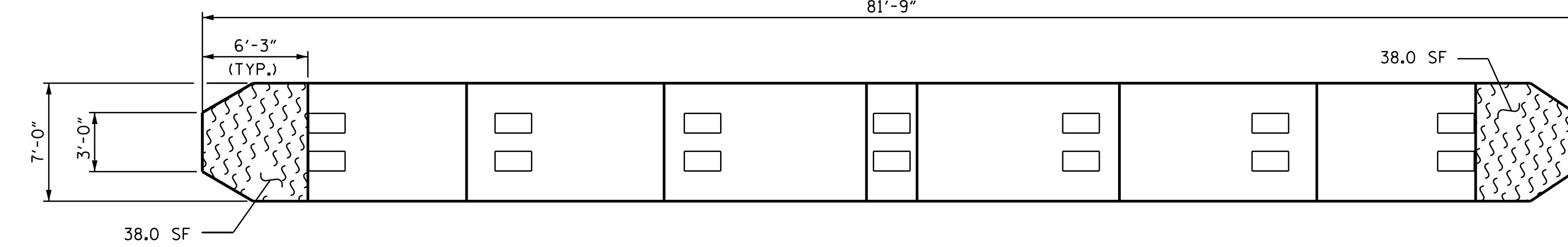
BENT 38



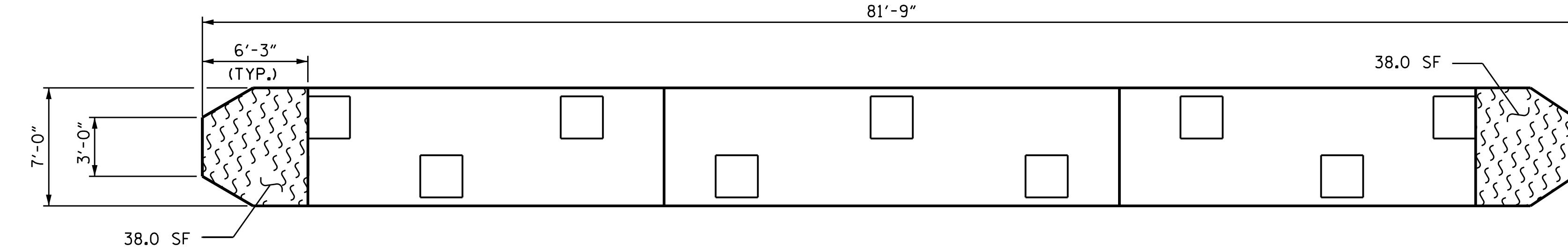
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NO.	BY:	DATE:	NO.	BY:	DATE:	S-106
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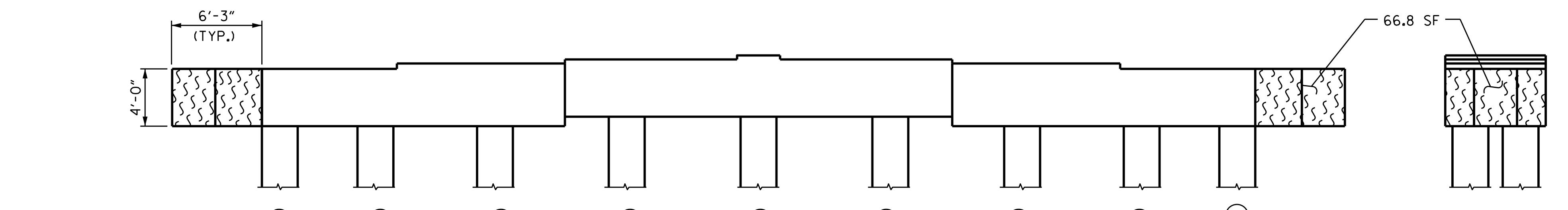
DRAWN BY : S. T. SANDOR DATE : 6/18/24
CHECKED BY : W. C. SMITH DATE : 6/19/24



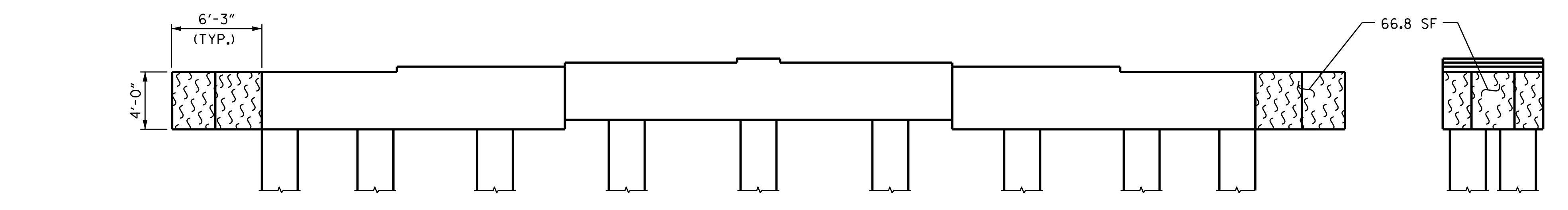
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

REPAIR QUANTITY TABLE

BENT 39	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 39 OF 140

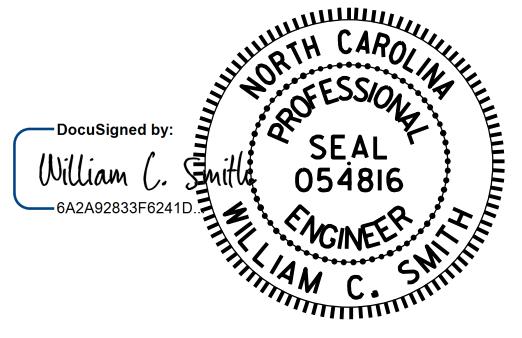
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 39



11/21/2025

REVISIONS

SHEET NO.

S-107

DOCUMENT NOT CONSIDERED
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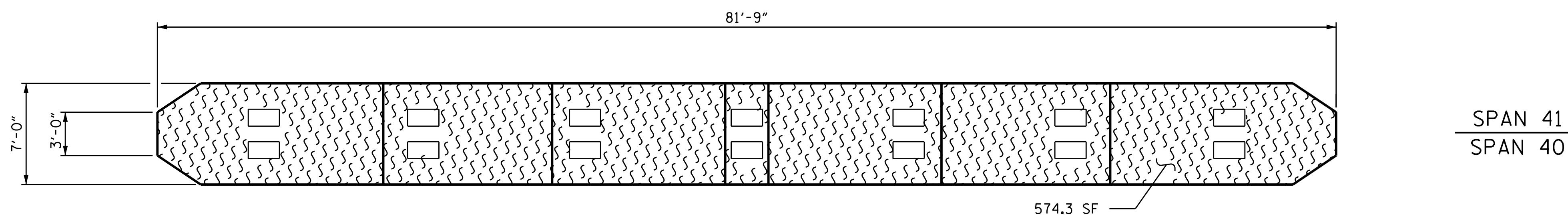
TOTAL
SHEETS
217

REPAIR QUANTITY TABLE

BENT 40	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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			

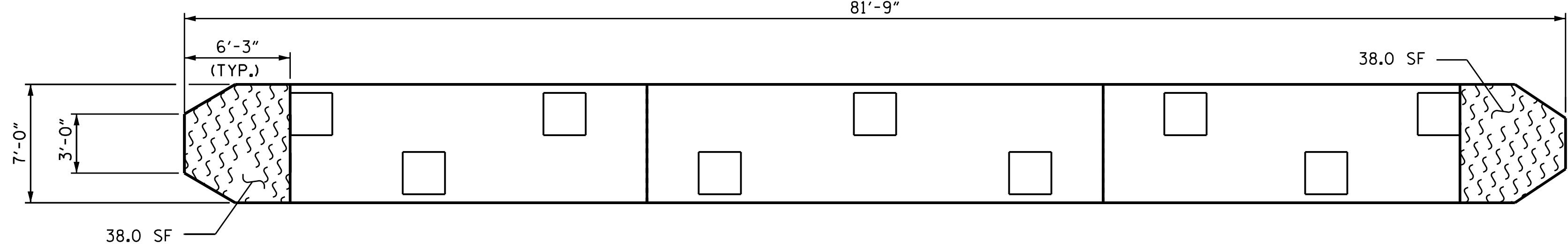
VALUES IN THE REPAIR QUANTITY TABLE REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

TOP VIEW OF CAP



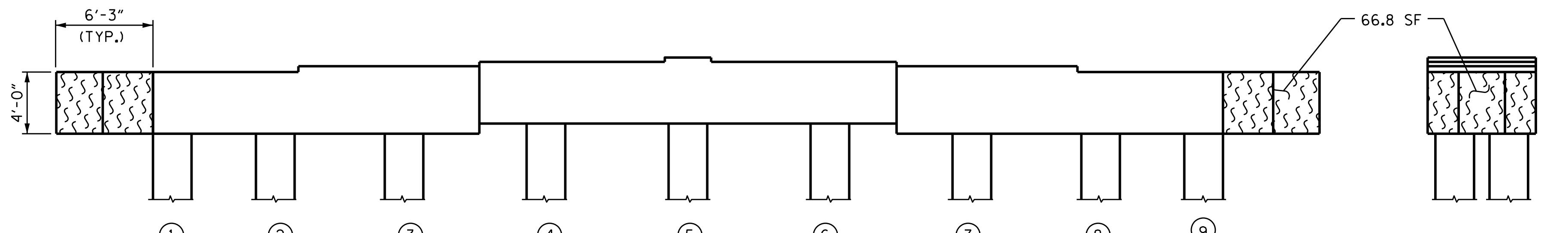
SPAN 41
SPAN 40

81'-9"



SPAN 40
SPAN 41

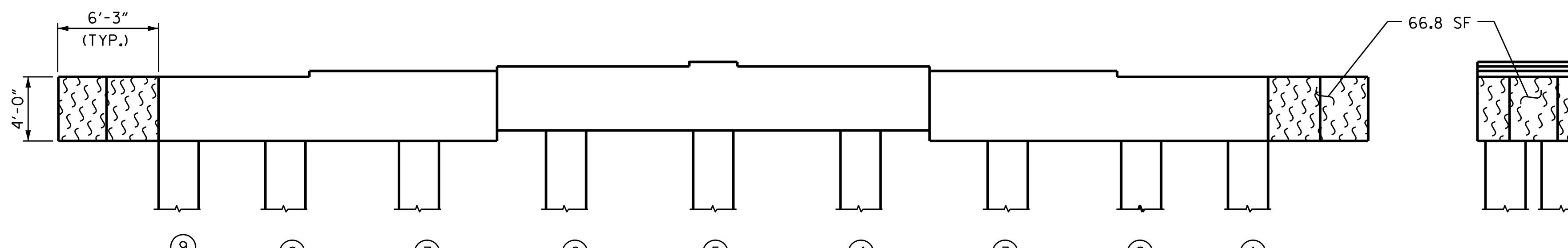
BOTTOM VIEW OF CAP



EAST END

ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



WEST END

ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS					SHEET NO.	
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PROJECT NO. 15BPR.137

BEAUFORT COUNTY

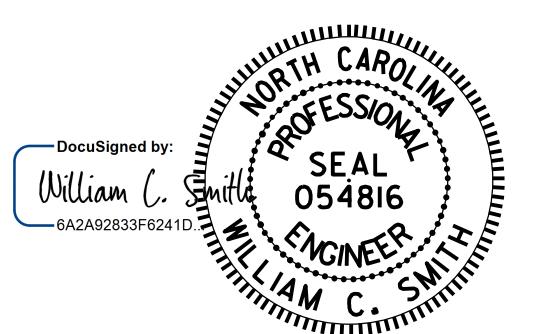
BRIDGE NO. 060353

SHEET 40 OF 140

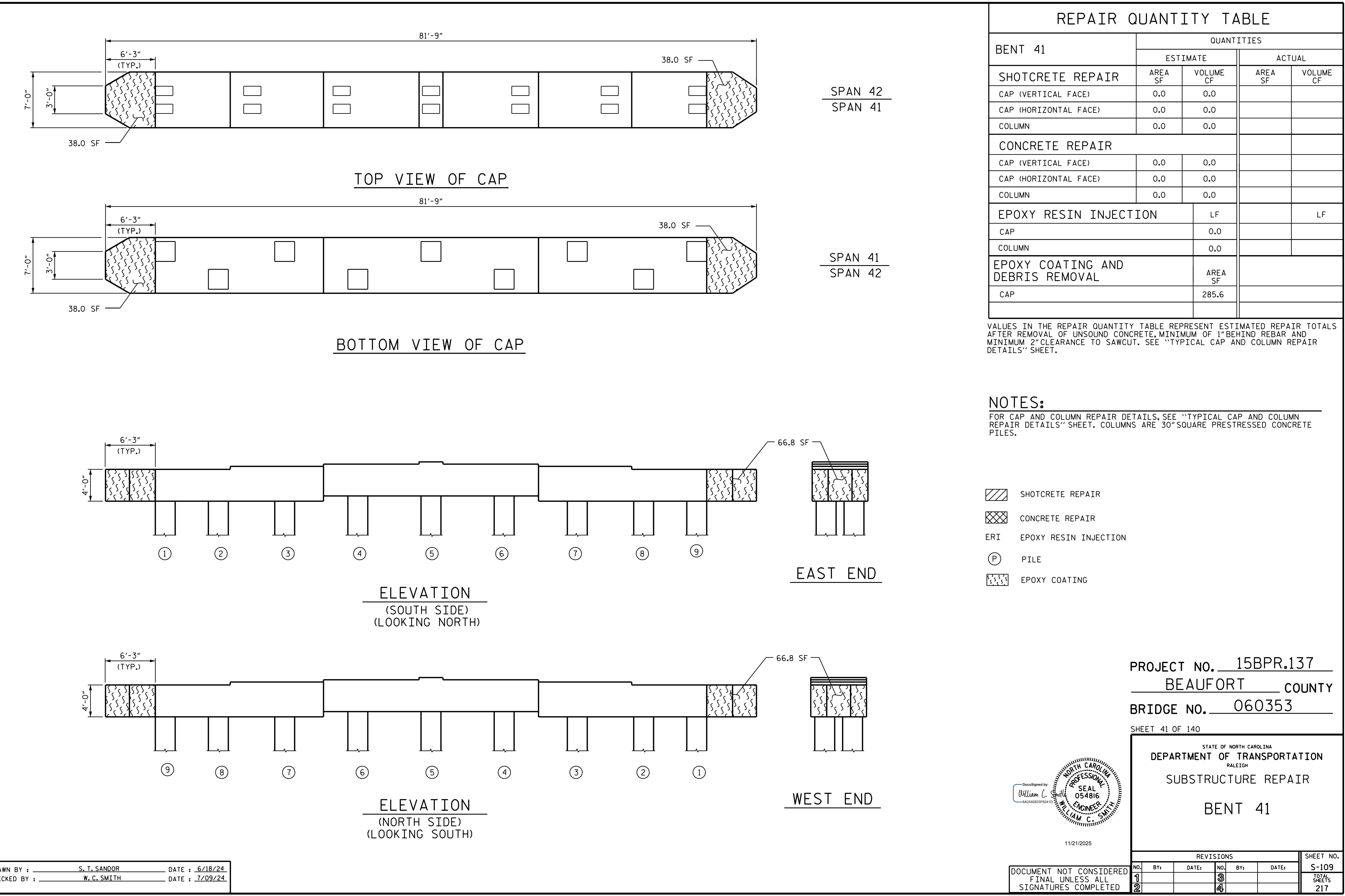
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

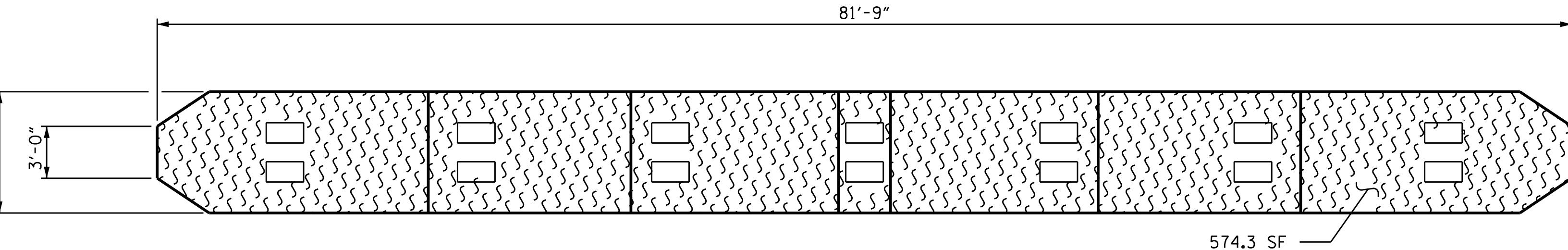
SUBSTRUCTURE REPAIR

BENT 40

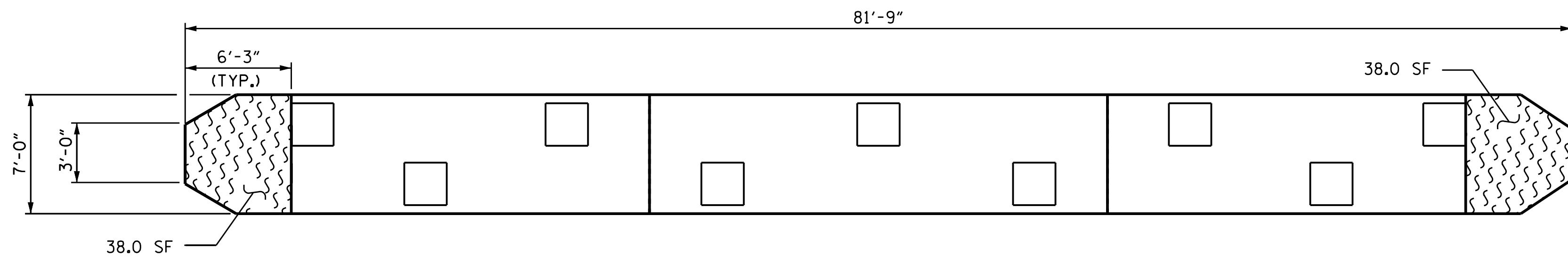


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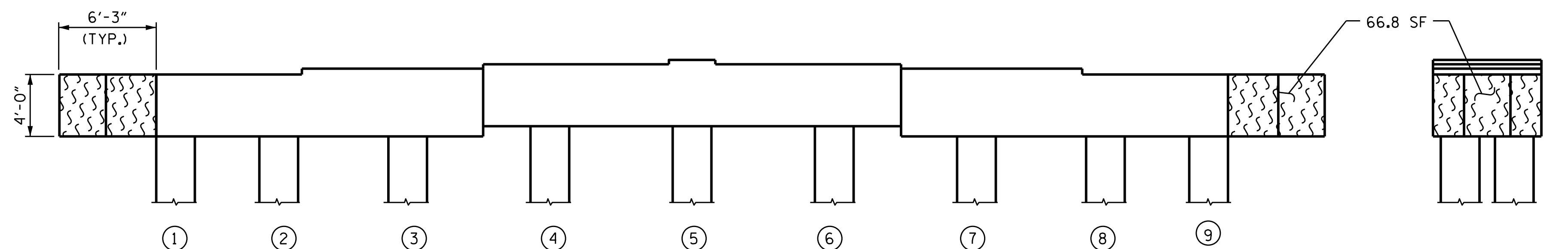




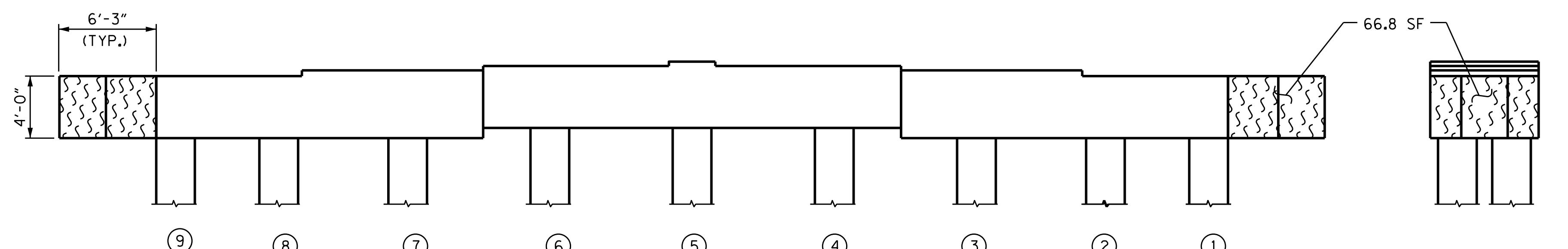
TOP VIEW OF CAP



BOTTOM VIEW OF CAP



ELEVATION
(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION
(NORTH SIDE)
(LOOKING SOUTH)

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

REPAIR QUANTITY TABLE

BENT 42	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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 42 OF 140

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

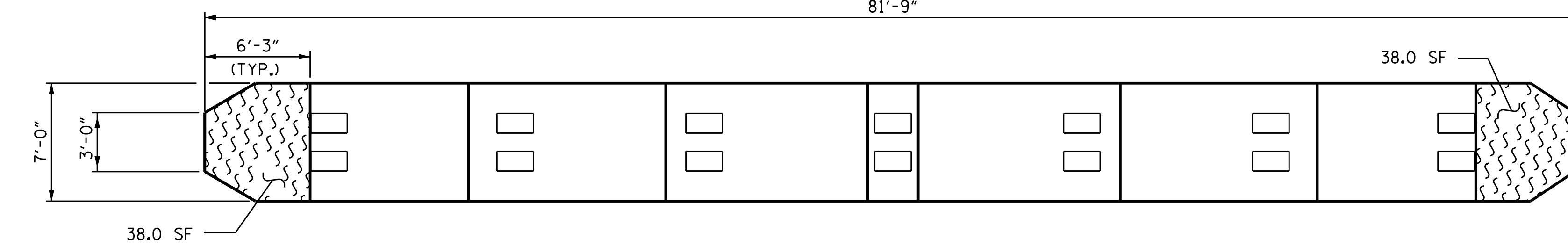
BENT 42



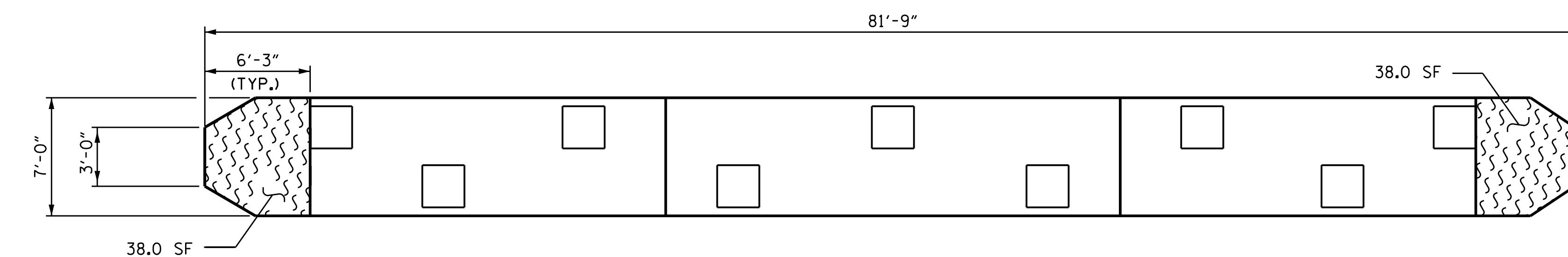
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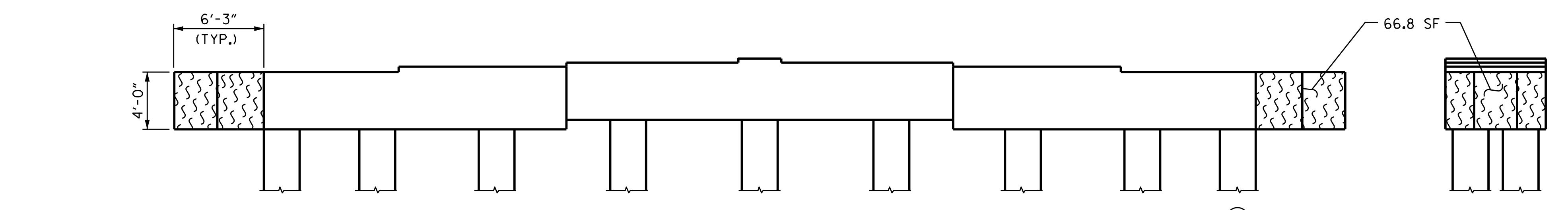
TOTAL SHEETS
217



TOP VIEW OF CAP

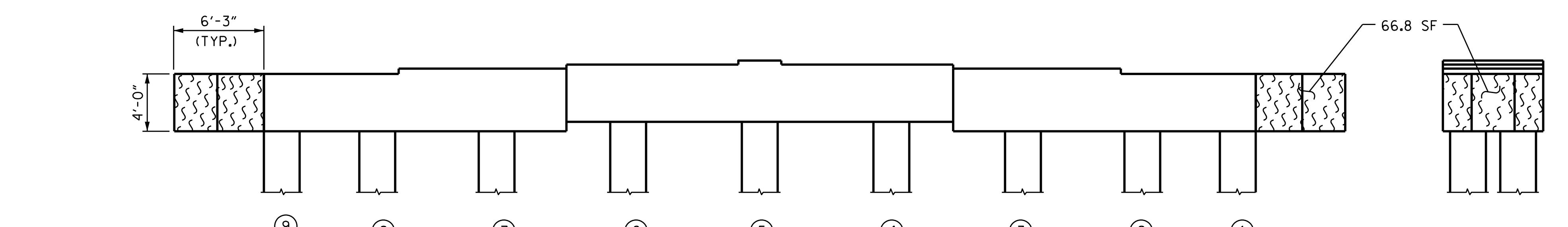


BOTTOM VIEW OF CAP



ELEVATION

(SOUTH SIDE)
(LOOKING NORTH)



ELEVATION

(NORTH SIDE)
(LOOKING SOUTH)

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

11/21/2025

REPAIR QUANTITY TABLE

BENT 43	QUANTITIES			
	ESTIMATE	ACTUAL	AREA SF	VOLUME CF
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

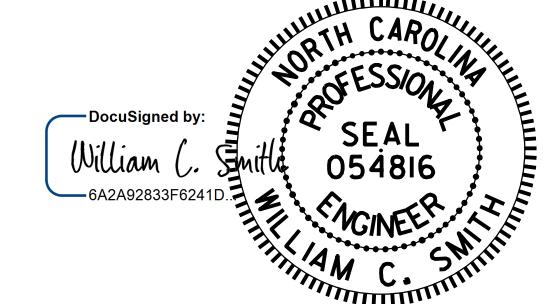
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE REPAIR

BENT 43



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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

TOTAL SHEETS
217