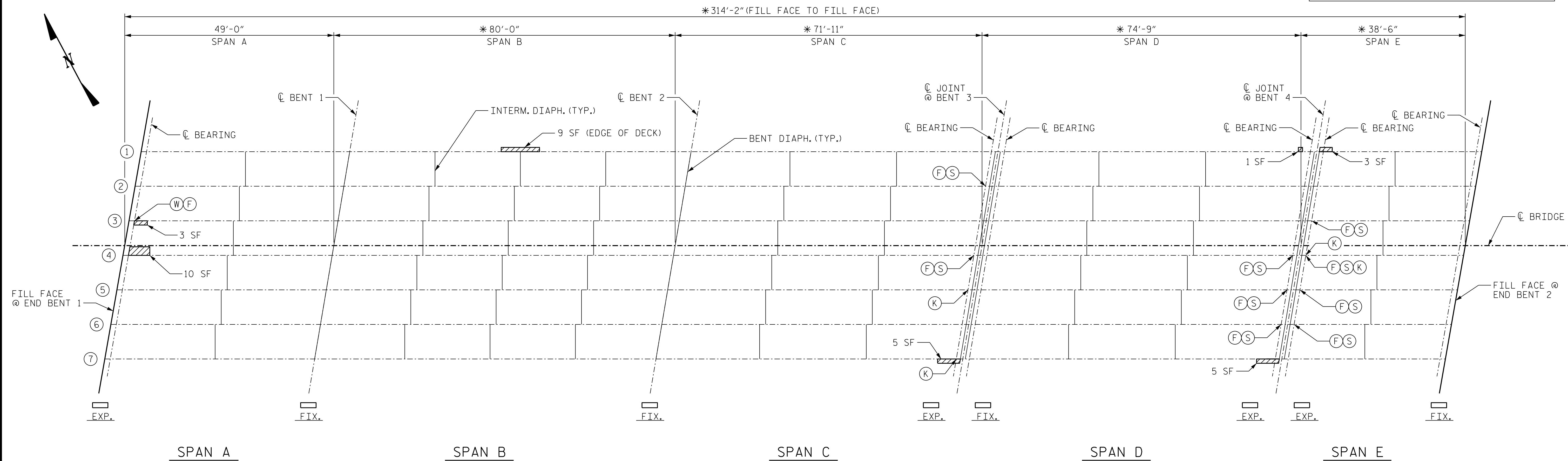


* APPROXIMATE ARC LENGTHS ALONG C BRIDGE.



FRAMING PLAN

KEY	
(+) BEAM NUMBER	
(W) WEB PLATING REPAIR	
(S) STIFFENER REPAIR	
(F) BOTTOM FLANGE PLATING REPAIR	
(I) INTERMEDIATE BEAM PLATING REPAIR	
(BE) BEAM END REPAIR	
(BW) BOLTED WEB PLATE REPAIR	
(K) STEEL BEARING KEEPER ANGLE ASSEMBLY	
(Hatched Box) UNDERSIDE OF DECK REPAIR	

UNDERSIDE OF DECK REPAIRS				
SHOTCRETE REPAIRS	QUANTITIES			
	ESTIMATE		ACTUAL	
	AREA SF	VOLUME CF	AREA SF	VOLUME CF
UNDERSIDE OF DECK	0.0	0.0		
OVERHANG DIAPHRAGMS	13.0	6.5		
UNDERSIDE OF OVERHANG	10.0	5.0		
INTERIOR DIAPHRAGMS	13.0	6.5		
	ESTIMATE		ACTUAL	
UNDERSIDE EPOXY RESIN INJECTION	0.0 LF			

VALUES IN CHART REPRESENT ESTIMATED UNDERSIDE OF DECK REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEAR TO SAW CUT. SEE REPAIR DETAILS.

ANTICIPATED BEAM REPAIR LOCATIONS								
SPAN	BEAM	LOCATION	DETAIL TYPE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
A	3	END BENT 1	A	3"	18"	-	-	-
C	2	BENT 3	D	5 1/2"	0"	-	60"	-
C	4	BENT 3	D	5 1/2"	0"	-	69"	-
D	4	BENT 4	D	5 1/2"	0"	-	48"	-
D	5	BENT 4	D	5 1/2"	0"	-	60"	-
D	6	BENT 4	D	5 1/2"	0"	-	58"	-
E	3	BENT 4	D	5 1/2"	0"	-	21"	-
E	4	BENT 4	D	5 1/2"	0"	-	55"	-
E	5	BENT 4	D	5 1/2"	0"	-	36"	-
E	6	BENT 4	D	5 1/2"	0"	-	31"	-

BEAM REPAIR QUANTITY TABLE SPANS A THRU E					
STEEL PLATES		STIFFENER		STEEL BEARING KEEPER ANGLE ASSEMBLY	
LBS.		LBS.		EA.	
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
740		40		4	
BEAM REPAIR CUT-OUT		BOLTED BEAM REPAIR			
LBS.		LBS.			
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL		
-		-			

NOTES:

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER AFTER THE STRUCTURAL STEEL HAS BEEN CLEANED, BLASTED, AND PRIMED, THE CONTRACTOR AND ENGINEER SHALL REVIEW THE STEEL TO VERIFY NOTED REPAIR LOCATIONS AND TO IDENTIFY ANY ADDITIONAL REPAIR LOCATIONS. THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

FOR REPAIR DETAILS, SEE "BEAM REPAIR DETAILS", "STEEL KEEPER ANGLE ASSEMBLY DETAILS" AND "TYPICAL CAP, COLUMN AND UNDERDECK REPAIR DETAILS" SHEETS.

THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR STEEL BEAM REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL VERIFY THE LOCATION AND EXTENTS OF REPAIR AREAS PRIOR TO STEEL FABRICATION.

FOR CLEANING AND PAINTING EXISTING BEARINGS WITH HRCSA, SEE SPECIAL PROVISIONS.

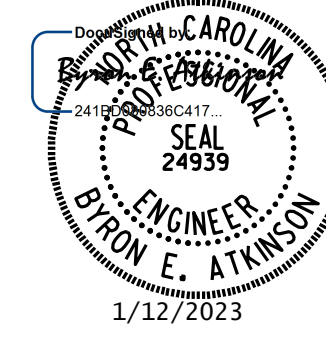
STRUCTURAL STEEL REPAIRS SHALL BE COMPLETED BEFORE FINAL CLEANING AND PAINTING OF STRUCTURAL STEEL.

FOR BEAM REPAIR PLATING, SEE SPECIAL PROVISIONS.

FOR BEAM REPAIR CUT-OUT, SEE SPECIAL PROVISIONS.

FOR BOLTED BEAM REPAIR, SEE SPECIAL PROVISIONS.

PROJECT NO. 15BPR.35
MECKLENBURG COUNTY
 BRIDGE NO. 590345



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

MI ENGINEERING
 1011 SCHAUB DRIVE, SUITE 100
 RALEIGH, NC 27606
 (919) 851-6606
 FIRM PE NUMBER: P-0671

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUPERSTRUCTURE
 BEAM REPAIR
 LOCATIONS**

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

SHEET NO. **S9-7**
 TOTAL SHEETS 108

DRAWN BY: B.E. LANNING DATE: 10/2022
 CHECKED BY: B.E. ATKINSON DATE: 10/2022
 DESIGN ENGINEER OF RECORD: B.E. ATKINSON DATE: 10/2022

1/12/2023 9:20:06 AM User: blanning
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