TO SR 1717 ←

TO NC 97 →

℄ JOINT @ BENT 1

3.2 SF

B1

℄ BEAM (TYP.)

B2

FILL FACE @ END BENT 1

CONC. BENT DIAPHRAGM (TYP.)

B3

INTERMEDIATE DIAPHRAGM (TYP.)

B4

℄ BRIDGE & ROADWAY

B5

(BW)

B6

(W)(S)

B7

1.7 SF

8" DIA. UTILITY PIPE.

1.0 SF

50'-0" (SPAN A)

SPAN B

235'-0" (LENGTH OF BRIDGE) (FILL FACE TO FILL FACE)

SPAN A
(UNDERSIDE)

Legend
- ▨ – CONCRETE REPAIR AREA
- ▨ – SHOTCRETE REPAIR AREA

- (B*) BEAM NUMBER
- (W) WEB PLATING REPAIR
- (S) STIFFENER REPAIR
- (F) BOTTOM FLANGE PLATING REPAIR
- (BW) BOLTED WEB PLATE REPAIR
- (BF) BOLTED FLANGE PLATE REPAIR
- (BE) BEAM END CUT-OUT REPAIR
- (KA) KEEPER ANGLE ASSEMBLY

REPAIR QUANTITY TABLE

UNDERSIDE OF DECK REPAIRS - SPAN A	QUANTITIES			
	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF
UNDERSIDE OF DECK	0.0	0.0		
CONCRETE BENT DIAPHRAGM	4.2	2.1		
OVERHANG	1.7	0.6		
CONCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF
UNDERSIDE OF DECK	0.0	0.0		
CONCRETE BENT DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0		

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 2" CL TO SAWCUT. SEE REPAIR DETAILS.

NOTES:

THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO STEEL FABRICATION. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE REPAIR QUANTITY TABLE.

FOR BEAM PLATING REPAIR, SEE "BEAM PLATING REPAIR DETAILS" SHEET.

FOR BOLTED STEEL PLATE REPAIRS SEE "BOLTED BEAM PLATING REPAIR DETAILS" SHEET.

FOR BEAM END CUT-OUT REPAIR SEE, "BEAM END AND INTERMEDIATE REPAIR DETAILS" SHEET.

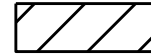FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

CONCRETE REPAIRS MAY BE SUBSTITUTED IN LIEU OF SHOTCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.
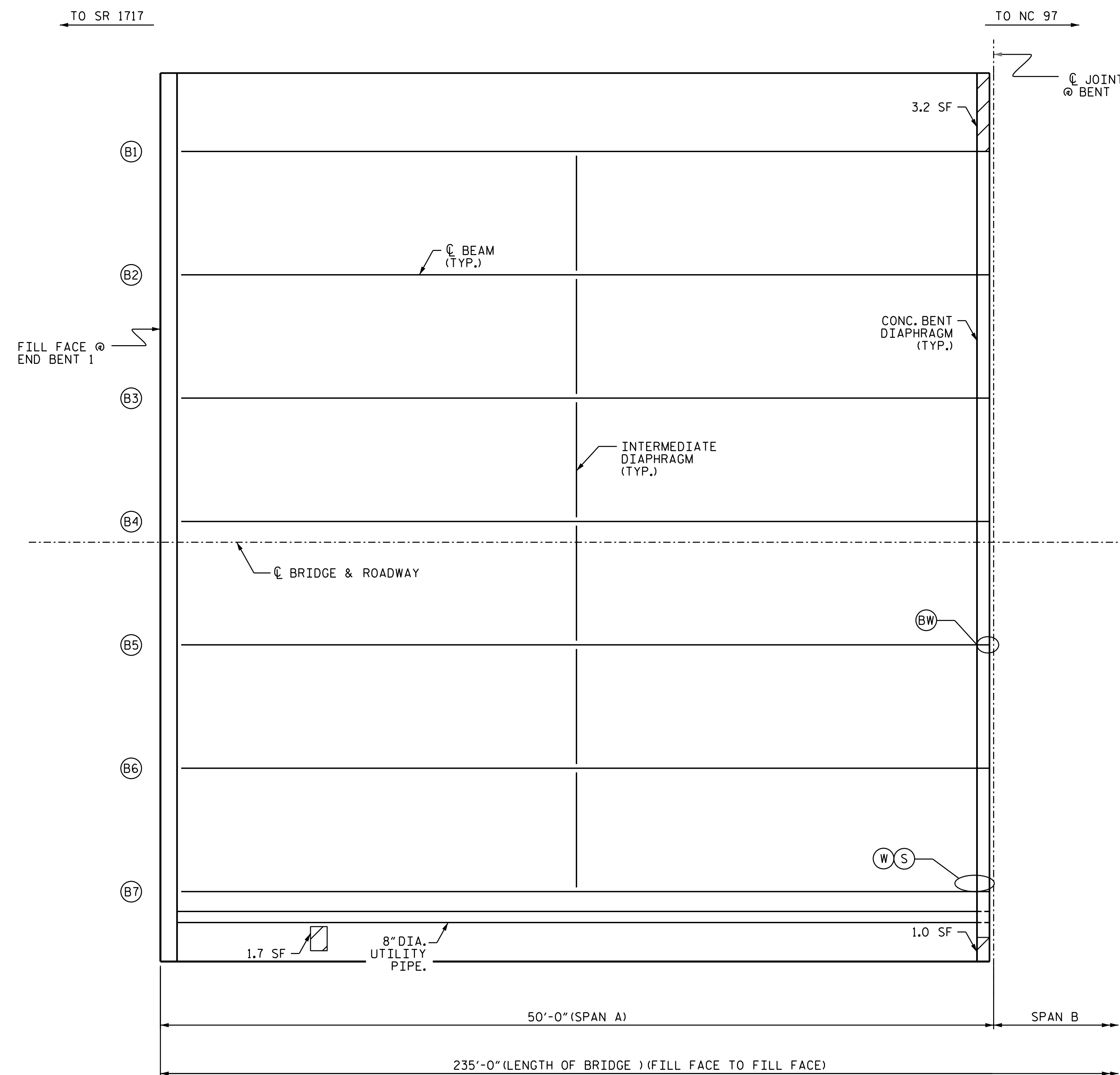
FOR UNDERSIDE OF DECK REPAIRS, SEE "DECK REPAIR DETAILS" SHEET S3-20.

FOR OVERHANG REPAIRS, SEE "OVERHANG & DIAPHRAGM REPAIR DETAILS" SHEET S3-21.

FOR DIAPHRAGM REPAIRS SEE "OVERHANG & DIAPHRAGM REPAIR DETAILS" SHEET.

BEAM REPAIR QUANTITIY TABLE

BOLTED STEEL PLATES		STEEL PLATES		STIFFENER		STEEL DIAPHRAGM		BEAM END CUT-OUT	
LBS.		LBS.		LBS.		LBS.		LBS.	
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
53.6		19.1		5.8		0		0	

STEEL KEEPER ANGLE ASSEMBLY	
EA.	
ESTIMATE	ACTUAL
0	

STEEL REPAIR LOCATIONS

REPAIR TYPE	SPAN	BEAM	LOCATION	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
BW	A	5	BENT 1	8½"	10"	-	-
W	A	7	BENT 1	3"	12"	-	-
S	A	7	BENT 1	8"	-	-	-

(SEE SHEETS S3-22 THRU S3-24 FOR BEAM REPAIR DETAILS AND DIMENSIONS.)

PROJECT NO. **15BPR.47**

NASH COUNTY

BRIDGE NO. **630039**

SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

UNDERSIDE DECK REPAIRS SPAN A

DRAWN BY :	A. Y. GODFREY	DATE : 01/2022
CHECKED BY :	S. WANCE	DATE : 03/2022

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S3-9
1			3			
2			4			TOTAL SHEETS 33

5/26/2022
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aygodfrey