

AS-BUILT REPAIR QUANTITY TABLE

DECK UNDERSIDE REPAIRS - SPAN A

	ESTIMATE		ACTUAL	
	AREA SO. FT.	VOLUME CU. FT.	AREA SO. FT.	VOLUME CU. FT.
SHOTCRETE REPAIRS				
UNDERSIDE OF DECK	4.4	1.8		
CONCRETE DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS				
UNDERSIDE OF DECK	0.0	0.0		
CONCRETE DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0		
EPOXY RESIN INJECTION		LIN. FT.		LIN. FT.
UNDERSIDE OF DECK		0.0		
CONCRETE DIAPHRAGM		0.0		
OVERHANG		77.0		

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

NOTES

FOR UNDERSIDE OF DECK REPAIRS, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

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

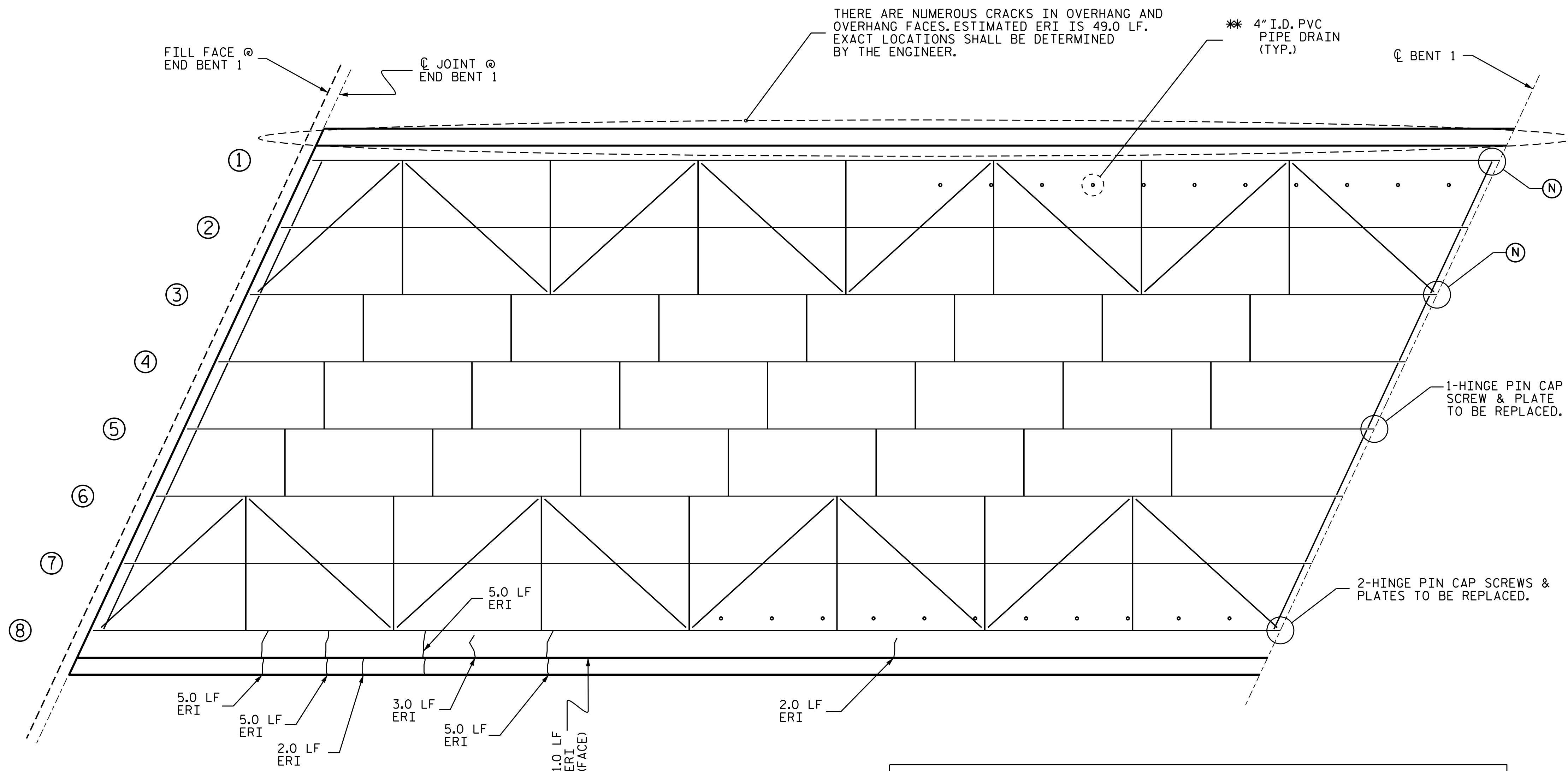
FOR BRIDGE JACKING, SEE "JACKING DETAILS" SHEET.

FOR REPLACEMENT OF HINGE PIN CAP SCREW AND WASHER, SEE SPECIAL PROVISIONS.

ALL MISSING ANCHOR BOLT NUTS SHALL BE REPLACED. ANTICIPATED LOCATIONS AND QUANTITIES ARE AS INDICATED ON PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY. NUTS SHALL BE ASTM A194, AS APPLICABLE, OR ASTM A563 AND SIZE AND THREADS SHALL MATCH EXISTING. COST OF REPLACEMENT OF ANCHOR BOLT NUTS SHALL BE CONSIDERED INCIDENTAL TO COST OF OTHER VARIOUS PAY ITEMS.

FOR HINGE PIN CAP SCREW & PLATE DETAILS, SEE SHEET S-48.

HINGE PIN CAP SCREW AND PLATE SHALL BE FABRICATED OR SUPPLIED TO MEET THE GEOMETRY AND DIMENSIONS INDICATED. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND GEOMETRIES AND OTHER DETAILS. MATERIAL SHALL BE MINIMUM GRADE A36 STEEL FOR PLATE AND ASTM A307 FOR CAP SCREW. COST OF HINGE PIN CAP SCREW AND PLATE SHALL BE CONSIDERED INCIDENTAL TO COST OF OTHER VARIOUS PAY ITEMS.



THERE ARE NUMEROUS CRACKS IN OVERHANG AND OVERHANG FACES. ESTIMATED ERI IS 49.0 LF. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

** 4" I.D. PVC PIPE DRAIN (TYP.)

FILL FACE @ END BENT 1
 JOINT @ END BENT 1

BENT 1

1-HINGE PIN CAP SCREW & PLATE TO BE REPLACED.

2-HINGE PIN CAP SCREWS & PLATES TO BE REPLACED.

5.0 LF ERI

5.0 LF ERI

2.0 LF ERI

3.0 LF ERI

5.0 LF ERI

1.0 LF ERI (FACE)

2.0 LF ERI

SPAN A (UNDERSIDE OF DECK)

** THE FIELD ENGINEER SHALL DETERMINE THE ACTUAL NUMBER OF REPAIR LOCATIONS. 4 LOCATIONS NOTED DURING FIELD EVALUATION. ESTIMATE QUANTITY, 1.1 CF OF SHOTCRETE EACH LOCATION ADDED TO "UNDERSIDE OF DECK" IN QUANTITY TABLE.

BEAM REPAIR QUANTITY TABLE

STEEL PLATES		STIFFENER		STEEL DIAPHRAGM		BRIDGE JACKING		ANCHOR BOLT NUT	
LBS.		LBS.		LBS.		EA.		EA.	
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
0.0		0.0		0.0		0		4	

PROJECT NO. 15BPR.40
BUNCOMBE COUNTY
 BRIDGE NO. 100705

SHEET 1 OF 7

ANTICIPATED STEEL REPAIR LOCATIONS						
SPAN	BEAM	LOCATION	DIM "A"	DIM "B"	DIM "E"	DIM "F"

SHOTCRETE REPAIR AREA

ERI - EPOXY RESIN INJECTION

- ① BEAM NUMBER
- ② BEAM END REPAIR
- ③ PLATING REPAIR
- ④ STIFFENER REPAIR
- ⑤ CONNECTOR PLATE REPAIR
- ⑥ STEEL CROSSFRAME REPLACEMENT HORIZONTAL ST4 WF8.5
- ⑦ BOTTOM FLANGE REPAIR
- ⑧ ANCHOR BOLT NUT REPLACEMENT
- ⑨ STEEL ANGLE KEEPER ASSEMBLY



5/29/2019

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK UNDERSIDE REPAIRS SPAN A

DRAWN BY : C.L. BRIGHT DATE : 01/2019
 CHECKED BY : A.M. LEE DATE : 03/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S3-13
2			4			TOTAL SHEETS 36