

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
74	G-2	@ BENT 74	0.7' X 0.6'		* BOTTOM FLANGE	1
74	G-1	@ BENT 73	0.5' X 1.5'		* BOTTOM FLANGE	2
74	G-1	@ BENT 73	0.5' X 0.6'		* BOTTOM FLANGE	1
74	G-2	@ BENT 73	0.5' X 0.6'		* BOTTOM FLANGE	1
74	G-2	@ BENT 74	0.5' X 0.8'		* BOTTOM FLANGE	2
74	G-2	@ BENT 74	1' X 0.8'		* BOTTOM FLANGE	2
75	G-1	@ BENT 75	0.7' X 0.7'		* BOTTOM FLANGE	1
75	G-2	@ BENT 75	0.5' X 0.8'		* BOTTOM FLANGE	1
75	G-3	5' FROM BENT 75	0.5' X 0.5'		* BOTTOM FLANGE	1
75	G-2	@ BENT 74	1' X 0.8'		* BOTTOM FLANGE	2
75	G-2	@ BENT 74	0.8' X 1.5'		* BOTTOM FLANGE	1
75	G-1	@ BENT 74	1.5' X 1.5'		* BOTTOM FLANGE	1
75	G-4	@ BENT 75	0.5' X 0.7'		* BOTTOM FLANGE	3
75	G-3	@ BENT 75	0.5' X 1.5'		* BOTTOM FLANGE	RT EXT
76	G-1	7' FROM BENT 75	2.5' X 0.3'		* BOTTOM FLANGE	RT EXT
76	G-2	@ BENT 75	1.5' X 0.8'		* BOTTOM FLANGE	1
76	G-1	@ BENT 75	1' X 0.8'		* BOTTOM FLANGE	RT EXT
76	G-3	@ BENT 75	1.5' X 0.8'		* BOTTOM FLANGE	2
76	G-4	@ BENT 76	0.8' X 0.8'		* BOTTOM FLANGE	3
76	G-3	@ BENT 76	1' X 0.8'		* BOTTOM FLANGE	3
77	DECK	4.5' FROM INTER. DIA.	0.7' X 0.7'		BOTTOM OF DECK	1
77	G-1	@ BENT 76	1.2' X 0.8'		* BOTTOM FLANGE	LT EXT
77	G-1	@ BENT 77	0.5' X 0.5'		* BOTTOM FLANGE	1
77	G-1	5' FROM BENT 77	0.5' X 0.5'		* BOTTOM FLANGE	1
77	G-2	@ BENT 77	0.7' X 0.5'		* BOTTOM FLANGE	1
77	G-2	@ BENT 77	0.8' X 0.6'		* BOTTOM FLANGE	2
77	G-1	@ BENT 76	1' X 0.6'		* BOTTOM FLANGE	RT EXT
77	G-3	@ BENT 76	5.5' X 0.6'		* BOTTOM FLANGE	3
78	G-1	@ BENT 78	3.8' X 0.9'		* BOTTOM FLANGE	1
78	G-2	@ BENT 78	0.8' X 0.6'		* BOTTOM FLANGE	1
78	G-3	@ BENT 78	0.9' X 0.6'		* BOTTOM FLANGE	2
79	G-1	@ BENT 78	0.6' X 0.8'		* BOTTOM FLANGE	1
79	G-2	@ BENT 78	1.3' X 0.6'		* BOTTOM FLANGE	1
79	G-3	@ BENT 78	0.6' X 0.7'		* BOTTOM FLANGE	2
79	G-2	@ BENT 79	1.5' X 0.2'		* BOTTOM FLANGE	1
79	G-2	@ BENT 79	1.2' X 1'		* BOTTOM FLANGE	2
79	G-3	@ BENT 79	0.7' X 0.5'		* BOTTOM FLANGE	2
79	G-3	33' FROM BENT 78	3.3' X 0.8'		* BOTTOM FLANGE	2
79	G-4	@ BENT 78	0.7' X 0.6'		* BOTTOM FLANGE	3
80	G-1	@ BENT 80	0.3' X 0.6'		* BOTTOM FLANGE	1
80	G-4	@ BENT 80	0.8' X 0.5'		* BOTTOM FLANGE	2
80	G-1	@ BENT 80	1.0' X 0.8'		* BOTTOM FLANGE	1
80	G-2	@ BENT 80	1.5' X 1.3'		* BOTTOM FLANGE	2
80	G-2	31' FROM BENT 79	3.4' X 0.5'		* BOTTOM FLANGE	1
80	G-3	25' FROM BENT 79	10.5' X 0.5'		* BOTTOM FLANGE	2
80	G-2	@ BENT 80	0.7' X 0.6'		* BOTTOM FLANGE	3
80	G-3	26' FROM BENT 79	2.4' X 0.4'		* BOTTOM FLANGE	3

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
81	G-1	@ BENT 80	1.8' X 0.8'		* BOTTOM FLANGE	1
81	G-2	@ BENT 80	0.8' X 0.6'		* BOTTOM FLANGE	1
81	G-1	@ BENT 81	0.3' X 0.8'		* BOTTOM FLANGE	1
81	G-2	@ BENT 81	0.6' X 0.8'		* BOTTOM FLANGE	2
81	G-1	@ BENT 80	2.2' X 0.9'		* BOTTOM FLANGE	LT EXT
81	G-3	@ BENT 80	1.2' X 0.9'		* BOTTOM FLANGE	2
81	G-4	@ BENT 80	0.4' X 0.8'		* BOTTOM FLANGE	3
81	G-3	@ BENT 81	0.3' X 0.4'		* BOTTOM FLANGE	3
81	G-4	29' FROM BENT 80	4.4' X 0.5'		* BOTTOM FLANGE	3
82	G-2	@ BENT 81	1.6' X 1'		* BOTTOM FLANGE	1
83	END DIA.	@ BENT 83	1.7' X 0.8'		DIAPHRAGM	3
83	G-3	@ BENT 82	2.1' X 0.9'		* BOTTOM FLANGE	1
83	G-1	@ BENT 82	0.3' X 1.3'		* BOTTOM FLANGE & WEB	1
83	G-3	@ BENT 83	0.8' X 0.7'		* BOTTOM FLANGE	3
83	G-4	@ BENT 83	0.4' X 0.8'		WEB	RT EXT
84	G-1	@ BENT 83	0.3' X 0.8'		* BOTTOM FLANGE	1
84	G-2	@ BENT 83	3' X 0.7'		* BOTTOM FLANGE	1
84	G-3	@ BENT 83	1.8' X 0.4'		* BOTTOM FLANGE	2
84	G-3	@ BENT 83	0.6' X 0.5'		* BOTTOM FLANGE	3
84	G-3	1' FROM BENT 83	0.7' X 0.5'		* BOTTOM FLANGE	3
84	G-3	@ BENT 84	1.8' X 0.6'		* BOTTOM FLANGE	3
84	G-4	@ BENT 84	0.4' X 0.8'		* BOTTOM FLANGE	3
84	G-4	8' FROM BENT 84	3.2' X 0.5'		* BOTTOM FLANGE	3
84	G-1	@ BENT 84	0.6' X 0.6'		* BOTTOM FLANGE	3
84	G-4	@ BENT 84	0.3' X 1.3'		* BOTTOM FLANGE	RT EXT
85	G-1	@ BENT 84	0.5' X 0.8'		* BOTTOM FLANGE	1
85	G-2	@ BENT 84	2.7' X 0.6'		* BOTTOM FLANGE	1
85	G-2	@ BENT 85	0.8' X 1.1'		* BOTTOM FLANGE	2
85	G-1	@ BENT 85	0.4' X 0.7'		* BOTTOM FLANGE	1
85	G-4	6' FROM BENT 85	2.5' X 0.5'		* BOTTOM FLANGE	3
86	G-2	@ BENT 85	0.6' X 0.8'		* BOTTOM FLANGE	2
86	G-1	@ BENT 86	1.3' X 1.1'		* BOTTOM FLANGE & WEB	1
87	G-2	@ BENT 87	0.7' X 0.5'		* BOTTOM FLANGE	1
87	G-3	@ BENT 86	0.5' X 0.5'		* BOTTOM FLANGE	3
87	G-2	@ BENT 86	0.7' X 0.6'		* BOTTOM FLANGE	3
87	G-3	@ BENT 87	1.2' X 1.4'		WEB	3
87	G-3	@ BENT 87	0.7' X 0.4'		* BOTTOM FLANGE	2
87	G-3	@ BENT 87	0.7' X 0.3'		* BOTTOM FLANGE	2
88	G-3	@ BENT 88	2.7' X 0.9'		* BOTTOM FLANGE	2
88	G-1	@ BENT 87	0.7' X 0.7'		* BOTTOM FLANGE	1
88	END DIA.	@ BENT 88	6.4' X 0.8'		DIAPHRAGM	2

REPAIR QUANTITY TABLE						
SPAN	REPAIR TYPE	QUANTITIES				
		ESTIMATE		ACTUAL		
		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
74-88	SHOTCRETE					
	GIRDERS	2.00	0.58			
	DIAPHRAGMS	6.48	3.24			
	DECK	0.49	0.25			
EPOXY MORTAR		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
	GIRDERS	75.87	22.13			

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

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

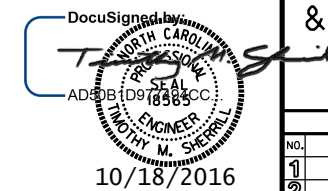
FOR EPOXY MORTAR REPAIRS, SEE SPECIAL PROVISIONS.

CONTRACTOR MAY ELECT TO USE EPOXY MORTAR IN LIEU OF SHOTCRETE.

\* ALL REPAIRS IN GIRDER FLANGE OR INCLUDING GIRDER FLANGE IN REPAIR SHALL BE EPOXY MORTAR.

PROJECT NO. B-5936  
TYRRELL COUNTY  
BRIDGE NO. 7

SHEET 8 OF 22



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
GIRDER, DIAPHRAGM & UNDERDECK REPAIRS					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					394

DRAWN BY : M.ALEE DATE : 6/2016  
CHECKED BY : T.SHERRILL DATE : 6/2016  
DESIGN ENGINEER OF RECORD: T.SHERRILL DATE : 6/2016