

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES					
SPAN	MEMBER	LENGTH FROM BENT (FT)	REPAIR SIZE	LOCATION	BAY
3	DECK	2' FROM BENT 2	3.2' X 3.3'	BOTTOM OF DECK	1
3	DECK	3' FROM BENT 2	2' X 2'	BOTTOM OF DECK	1
3	DECK	5' FROM BENT 2	2' X 0.8'	BOTTOM OF DECK	1
3	DECK	8' FROM BENT 2	2' X 2'	BOTTOM OF DECK	1
3	DECK	4' FROM BENT 2	1.2' X 0.8'	BOTTOM OF DECK	3
3	END DIA.	@ BENT 2	1.5' X 1'	DIAPHRAGM	1
3	END DIA.	@ BENT 2	0.8' X 1.2'	DIAPHRAGM	1
3	END DIA.	@ BENT 2	0.7' X 1.5'	DIAPHRAGM	1
3	END DIA.	@ BENT 2	4' X 0.6'	DIAPHRAGM	3
3	G-1	@ BENT 2	1.3' X 1'	WEB	LT EXT
3	G-1	@ BENT 2	1' X 0.6'	BOTTOM FLANGE	1
3	G-1	@ BENT 2	1' X 0.2'	BOTTOM FLANGE & WEB	1
3	G-1	10' FROM BENT 2	3.2' X 0.4'	BOTTOM FLANGE	LT EXT
3	G-2	@ BENT 2	0.9' X 2'	BOTTOM FLANGE & WEB	1
3	G-2	@ BENT 3	5' X 0.5'	BOTTOM FLANGE	1
3	G-2	@ BENT 3	2' X 2'	WEB	1
3	G-2	@ BENT 3	1' X 1.3'	BOTTOM FLANGE & WEB	2
3	G-2	@ BENT 2	11.5' X 1.2'	WEB	2
3	G-2	@ BENT 2	5' X 0.5'	BOTTOM FLANGE	2
3	G-2	4' FROM INTER. DIA.	3.5' X 0.5'	BOTTOM FLANGE	2
3	G-2	4' FROM BENT 3	2' X 1'	WEB	2
3	G-3	@ BENT 3	1.2' X 1.3'	BOTTOM FLANGE & WEB	2
3	G-3	@ BENT 2	2.2' X 1'	BOTTOM FLANGE	3
3	G-3	@ BENT 2	0.8' X 0.6'	BOTTOM FLANGE	3
3	G-3	@ BENT 2	0.8' X 0.6'	BOTTOM FLANGE	3
3	G-3	2' FROM BENT 2	8.3' X 1.2'	WEB	2
3	G-3	2' FROM BENT 3	0.9' X 1.2'	WEB	2
3	G-3	2.5' FROM BENT 2	3.7' X 1.2'	WEB	3
3	G-3	5' FROM BENT 2	4' X 0.8'	BOTTOM FLANGE	2
3	G-3	9' FROM BENT 3	4.5' X 0.5'	BOTTOM FLANGE	2
3	G-4	@ INTER. DIA.	4.5' X 0.8'	BOTTOM FLANGE	3
3	G-4	@ BENT 2	1.7' X 1'	BOTTOM FLANGE	RT EXT
3	G-4	@ BENT 2	4' X 1.2'	WEB	RT EXT
3	G-4	@ BENT 3	0.5' X 0.7'	BOTTOM FLANGE	RT EXT
3	G-4	@ BENT 2	14' X 1.2'	WEB	3
3	G-4	@ BENT 2	17' X 1'	BOTTOM FLANGE	3
3	G-4	2' FROM INTER. DIA.	6' X 0.8'	BOTTOM FLANGE	3
3	G-4	5' FROM BENT 3	1.2' X 0.8'	WEB	3
4	G-1	2' FROM BENT 3	5' X 1.3'	WEB	1
4	G-2	@ BENT 4	8' X 0.8'	BOTTOM FLANGE	1
4	G-2	@ BENT 4	0.8' X 10'	BOTTOM FLANGE	1
4	G-2	@ BENT 3	3' X 0.8'	BOTTOM FLANGE	1
4	G-2	@ BENT 3	1.8' X 1.3'	WEB	2
4	G-2	2' FROM BENT 3	3.5' X 1.3'	WEB	1
4	G-3	@ BENT 3	0.8' X 0.8'	BOTTOM FLANGE	2
4	G-3	@ BENT 3	3.5' X 2.1'	WEB	2
4	G-3	@ BENT 3	1.8' X 1.2'	WEB	2
4	G-3	2' FROM BENT 4	6.3' X 1.3'	WEB	2
4	G-4	@ BENT 4	1' X 0.8'	BOTTOM FLANGE	3
4	G-4	2' FROM BENT 3	6' X 1.3'	WEB	3

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES					
SPAN	MEMBER	LENGTH FROM BENT (FT)	REPAIR SIZE	LOCATION	BAY
4	G-4	4' FROM BENT 3	0.9' X 1.8'	WEB	3
5	G-1	@ BENT 4	3' X 1.3'	BOTTOM FLANGE & WEB	1
5	G-1	@ BENT 4	3' X 1.3'	BOTTOM FLANGE & WEB	1
5	G-1	@ BENT 4	4.7' X 2.2'	WEB	1
5	G-2	@ BENT 5	1.1' X 1'	BOTTOM FLANGE	1
5	G-2	2' FROM BENT 5	0.8' X 1.2'	WEB	1
5	G-2	6' FROM BENT 5	1.4' X 1.3'	WEB	2
5	G-3	@ BENT 4	0.7' X 0.6'	BOTTOM FLANGE	2
5	G-3	@ BENT 4	1.2' X 0.7'	BOTTOM FLANGE	3
5	G-3	13' FROM BENT 5	5.3' X 0.5'	BOTTOM FLANGE	2
5	G-3	17' FROM BENT 4	4.7' X 0.4'	BOTTOM FLANGE	3
5	G-3	2' FROM BENT 4	6' X 1.3'	WEB	2
5	G-3	4' FROM BENT 5	6.7' X 1.3'	WEB	2
5	G-4	@ BENT 4	1.2' X 0.7'	WEB	3
6	END DIA.	@ BENT 5	0.8' X 1.2'	DIAPHRAGM	3
6	G-1	@ BENT 5	1.2' X 0.7'	BOTTOM FLANGE	1
6	G-2	2' FROM BENT 5	1' X 0.7'	WEB	1
6	G-3	1.5' FROM BENT 5	5.8' X 1.2'	WEB	3
6	G-3	4' FROM BENT 6	3.3' X 1.2'	WEB	2
6	G-4	@ BENT 5	0.6' X 0.6'	BOTTOM FLANGE	RT EXT
6	G-4	@ BENT 6	0.8' X 0.8'	BOTTOM FLANGE	3
6	G-4	3' FROM BENT 5	3.3' X 1.2'	WEB	3
7	G-3	@ BENT 6	1' X 0.6'	BOTTOM FLANGE	3
8	G-1	@ BENT 7	1' X 0.6'	BOTTOM FLANGE	1
8	G-2	@ BENT 7	1' X 0.6'	BOTTOM FLANGE	1
8	G-4	@ BENT 7	1' X 0.6'	BOTTOM FLANGE	3
9	G-2	@ BENT 8	1' X 0.6'	BOTTOM FLANGE	1
9	G-2	3' FROM BENT 9	1.3' X 5.5'	WEB	1
10	G-1	@ BENT 10	1' X 0.6'	BOTTOM FLANGE	1
10	G-3	3' FROM BENT 9	1.3' X 5'	WEB	2
10	G-3	@ BENT 10	0.8' X 3.5'	BOTTOM FLANGE	3
11	G-1	@ BENT 11	1' X 0.6'	BOTTOM FLANGE	1
11	G-2	@ BENT 10	1' X 0.6'	BOTTOM FLANGE	2
11	G-2	@ BENT 11	0.5' X 0.5'	BOTTOM FLANGE	2
11	G-2	@ BENT 11	0.5' X 0.5'	BOTTOM FLANGE	1
11	G-3	@ BENT 11	1' X 0.6'	BOTTOM FLANGE	3
12	G-2	@ BENT 11	1' X 0.6'	BOTTOM FLANGE	1
12	G-2	@ BENT 12	1' X 0.6'	BOTTOM FLANGE	1
13	G-2	@ BENT 12	0.3' X 1.5'	BOTTOM FLANGE	1
13	G-2	@ BENT 13	0.5' X 0.3'	BOTTOM FLANGE	2
13	G-3	@ BENT 13	0.5' X 0.7'	BOTTOM FLANGE	3
13	G-3	@ BENT 13	0.5' X 0.7'	BOTTOM FLANGE	2
13	G-4	@ BENT 12	1' X 0.6'	BOTTOM FLANGE	3
14	G-1	@ BENT 13	1.5' X 0.6'	BOTTOM FLANGE & WEB	LT EXT
14	G-2	10' FROM BENT 13	0.3' X 0.6'	BOTTOM FLANGE	1
14	G-2	@ BENT 14	0.7' X 0.6'	BOTTOM FLANGE	2
14	G-3	2' FROM BENT 13	1.8' X 0.7'	WEB	2
14	G-3	9' FROM BENT 13	2.7' X 0.6'	BOTTOM FLANGE	2
14	G-3	@ BENT 14	1.8' X 0.7'	BOTTOM FLANGE	2
14	G-3	@ BENT 14	0.7' X 0.6'	BOTTOM FLANGE	3
14	G-3	@ BENT 14	0.3' X 1.5'	BOTTOM FLANGE	2

REPAIR QUANTITY TABLE						
	SHOTCRETE	QUANTITIES				
		ESTIMATE		ACTUAL		
		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
SPAN 3	GIRDERS	108.69	45.29			
	DIAPHRAGMS	5.91	2.46			
	DECK	21.12	8.80			
SPAN 4	GIRDERS	58.75	24.48			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 5	GIRDERS	45.16	18.82			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 6	GIRDERS	17.42	7.26			
	DIAPHRAGMS	0.96	0.40			
	DECK	0.00	0.00			
SPAN 7	GIRDERS	0.60	0.25			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 8	GIRDERS	1.80	0.75			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 9	GIRDERS	7.75	3.23			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 10	GIRDERS	9.90	4.13			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 11	GIRDERS	2.30	0.96			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 12	GIRDERS	1.20	0.50			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 13	GIRDERS	1.90	0.79			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			
SPAN 14	GIRDERS	6.51	2.71			
	DIAPHRAGMS	0.00	0.00			
	DECK	0.00	0.00			

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.
FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

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

SHEET 2 OF 22

DocuSigned by:
Timothy M. Shearill
AD50B1D977494CC...
8/10/2016



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GIRDER, DIAPHRAGM & UNDERDECK REPAIRS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-17
2			4			TOTAL SHEETS 394

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