

GIRDER, DIAPHRAGM, & DECK REPAIR TABLES						
SPAN	MEMBER	LENGTH FROM BENT (FT)	APPROX. REPAIR SIZE	ACTUAL REPAIR SIZE	LOCATION	BAY
211	DECK	@ BENT 210	1' X 1.5'		BOTTOM OF DECK	2
211	END DIA.	@ BENT 210	1' X 3'		DIAPHRAGM	2
211	G-4	@ BENT 211	0.7' X 0.7'		*BOTTOM FLANGE	3
212	END DIA.	@ BENT 211	3' X 0.5'		DIAPHRAGM	1
212	END DIA.	@ BENT 212	1' X 1'		DIAPHRAGM	LT EXT
212	G-2	5' FROM BENT 211	4' X 0.3'		*BOTTOM FLANGE	1
212	G-3	4' FROM BENT 211	0.5' X 0.5'		WEB	2
213	END DIA.	@ BENT 213	4' X 0.5'		DIAPHRAGM	1
213	G-4	@ BENT 213	0.8' X 0.8'		*BOTTOM FLANGE	3
214	END DIA.	@ BENT 213	2' X 0.5'		DIAPHRAGM	2
214	G-2	@ BENT 213	0.8' X 0.8'		*BOTTOM FLANGE	1
214	G-2	1' FROM BENT 213	1.5' X 4'		*BOTTOM FLANGE	1
214	G-3	3' FROM BENT 213	0.5' X 0.5'		WEB	3
214	G-3	4' FROM BENT 214	0.8' X 0.8'		WEB	2
215	DECK	2' FROM BENT 214	1' X 1'		BOTTOM OF DECK	3
215	G-4	3' FROM BENT 214	0.6' X 0.6'		WEB	3
216	END DIA.	@ BENT 216	4.5' X 0.6'		DIAPHRAGM	2
216	G-4	@ BENT 215	0.6' X 0.6'		*BOTTOM FLANGE	RT EXT
217	END DIA.	@ BENT 216	6.5' X 0.6'		DIAPHRAGM	2
217	END DIA.	@ BENT 217	4' X 0.3'		DIAPHRAGM	2
218	END DIA.	@ BENT 218	6.5' X 0.5'		DIAPHRAGM	2
218	END DIA.	@ BENT 218	1' X 0.3'		DIAPHRAGM	RT EXT
218	G-1	1' FROM BENT 217	1' X 4'		*BOTTOM FLANGE	1
218	G-2	@ BENT 217	0.8' X 0.8'		*BOTTOM FLANGE	1
219	END DIA.	@ BENT 219	1' X 0.5'		DIAPHRAGM	3
220	END DIA.	@ BENT 220	15' X 0.3'		DIAPHRAGM	3
220	END DIA.	@ BENT 220	1' X 4'		DIAPHRAGM	2
220	G-3	@ BENT 220	0.6' X 0.6'		*BOTTOM FLANGE	3
220	G-4	@ BENT 219	0.8' X 0.8'		*BOTTOM FLANGE	3
221	END DIA.	@ BENT 220	1' X 2'		DIAPHRAGM	2
221	END DIA.	@ BENT 221	0.5' X 0.5'		DIAPHRAGM	2
221	G-2	3' FROM BENT 220	4' X 0.5'		*BOTTOM FLANGE	1
221	G-2	3' FROM BENT 221	0.6' X 0.6'		WEB	1
221	G-3	20' FROM BENT 221	3' X 0.5'		*BOTTOM FLANGE	3
221	G-3	@ BENT 221	0.6' X 0.6'		WEB	2
222	END DIA.	@ BENT 221	2.5' X 0.5'		DIAPHRAGM	1
222	G-2	@ BENT 221	0.8' X 0.8'		*BOTTOM FLANGE	2
222	G-3	@ BENT 222	1' X 0.7'		*BOTTOM FLANGE	2
222	G-3	2' FROM BENT 222	1' X 1'		WEB	2
223	END DIA.	@ BENT 222	3' X 0.5'		DIAPHRAGM	1
223	G-2	@ BENT 222	0.5' X 0.5'		*BOTTOM FLANGE	1
223	G-2	4' FROM BENT 222	0.5' X 0.5'		WEB	2

REPAIR QUANTITY TABLE						
SPAN		QUANTITIES				
		ESTIMATE		ACTUAL		
		AREA SF	VOLUME CF	AREA SF	DEPTH FT	VOLUME CF
210-223	SHOTCRETE					
	GIRDERS	3.47	1.01			
	DIAPHRAGMS	34.60	17.30			
	DECK	2.50	1.25			
EPOXY MORTAR						
	GIRDERS	20.06	5.85			

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 18 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			S-33
2			4			TOTAL SHEETS 394

DocuSigned by:
T. SHERILL
AD50B1D97541CC18565
10/18/2016

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