

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN A																					
GIRDERS 1 & 4																					
TWENTIETH POINTS	BRG.	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.007	0.013	0.019	0.025	0.030	0.034	0.037	0.039	0.041	0.041	0.041	0.039	0.037	0.034	0.030	0.025	0.019	0.013	0.007	0
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.031	0.060	0.087	0.112	0.134	0.152	0.166	0.177	0.184	0.186	0.184	0.177	0.166	0.152	0.134	0.112	0.087	0.060	0.031	0
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0	0.005	0.009	0.013	0.017	0.020	0.022	0.025	0.026	0.027	0.027	0.027	0.026	0.025	0.022	0.020	0.017	0.013	0.009	0.005	0
TOTAL DEAD LOAD DEFLECTION	0	0.043	0.082	0.119	0.154	0.184	0.208	0.228	0.242	0.252	0.254	0.252	0.242	0.228	0.208	0.184	0.154	0.119	0.082	0.043	0
VERTICAL CURVE ORDINATE	0	0.006	0.012	0.017	0.021	0.025	0.028	0.030	0.032	0.033	0.033	0.033	0.032	0.030	0.028	0.025	0.021	0.017	0.012	0.006	0
ORDINATE DUE TO SUPERELEVATION	0	-0.001	-0.003	-0.004	-0.004	-0.005	-0.006	-0.006	-0.007	-0.007	-0.007	-0.007	-0.007	-0.006	-0.006	-0.005	-0.004	-0.004	-0.003	-0.001	0
REQUIRED CAMBER	0	48	91	132	171	204	230	252	267	278	280	278	267	252	230	204	171	132	91	48	0

\* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.  
ALL VALUES ARE SHOWN IN METERS, EXCEPT "REQUIRED CAMBER" WHICH IS SHOWN IN MILLIMETERS.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN B																					
GIRDERS 1 & 4																					
TWENTIETH POINTS	BRG.	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.005	0.010	0.015	0.020	0.023	0.026	0.029	0.031	0.032	0.032	0.032	0.031	0.029	0.026	0.023	0.020	0.015	0.010	0.005	0
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.024	0.047	0.069	0.088	0.105	0.120	0.131	0.139	0.145	0.146	0.145	0.139	0.131	0.120	0.105	0.088	0.069	0.047	0.024	0
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0	0.004	0.007	0.010	0.013	0.016	0.018	0.019	0.021	0.021	0.022	0.021	0.021	0.019	0.018	0.016	0.013	0.010	0.007	0.004	0
TOTAL DEAD LOAD DEFLECTION	0	0.033	0.064	0.094	0.121	0.144	0.164	0.179	0.191	0.198	0.200	0.198	0.191	0.179	0.164	0.144	0.121	0.094	0.064	0.033	0
VERTICAL CURVE ORDINATE	0	0.006	0.011	0.015	0.019	0.022	0.025	0.027	0.028	0.029	0.029	0.029	0.028	0.027	0.024	0.022	0.019	0.015	0.011	0.006	0
ORDINATE DUE TO SUPERELEVATION	0	-0.001	-0.002	-0.003	-0.004	-0.005	-0.005	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.005	-0.005	-0.004	-0.003	-0.002	-0.001	0
REQUIRED CAMBER	0	38	73	106	136	161	184	200	213	221	223	221	213	200	183	161	136	106	73	38	0

\* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.  
ALL VALUES ARE SHOWN IN METERS, EXCEPT "REQUIRED CAMBER" WHICH IS SHOWN IN MILLIMETERS.

PROJECT NO. R-513BB  
ROBESON COUNTY  
STATION: 209+17.263 -L-

SHEET 1 OF 2



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUPERSTRUCTURE  
DEAD LOAD  
DEFLECTION TABLES

DRAWN BY : N. O. TRAN DATE : 10/17/02  
CHECKED BY : M.A. ALLEN DATE : 2/04

25-FEB-2004 11:07  
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-45
1			3			TOTAL SHEETS
2			4			312

STR. 2