

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																				
TWENTIETH POINTS	SPAN A																			
	GIRDER #4																			
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.006	0.012	0.017	0.022	0.026	0.030	0.033	0.035	0.036	0.036	0.034	0.032	0.029	0.026	0.021	0.017	0.011	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.025	0.050	0.072	0.091	0.109	0.123	0.134	0.142	0.147	0.148	0.146	0.141	0.132	0.120	0.106	0.088	0.069	0.047	0.024
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.009	0.011	0.014	0.015	0.017	0.018	0.018	0.019	0.018	0.018	-0.017	0.015	0.013	0.011	0.009	0.006	0.003
TOTAL DEAD LOAD DEFLECTION	0.000	0.034	0.068	0.098	0.124	0.149	0.168	0.184	0.195	0.201	0.203	0.200	0.193	-0.181	0.164	0.145	0.120	0.095	0.064	0.033
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	34	68	98	124	149	168	184	195	201	203	200	193	181	164	145	120	95	64	33

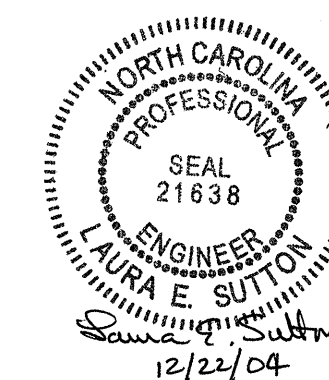
\* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.  
ALL VALUES ARE SHOWN IN METERS, EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN MILLIMETERS.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																				
TWENTIETH POINTS	SPAN A																			
	GIRDER #5																			
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.007	0.013	0.018	0.024	0.028	0.032	0.035	0.037	0.039	0.039	0.039	0.037	0.035	0.032	0.028	0.024	0.019	0.013	0.007
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.027	0.052	0.075	0.096	0.115	0.131	0.143	0.152	0.158	0.160	0.158	0.153	0.144	0.132	0.116	0.097	0.076	0.052	0.027
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.009	0.012	0.014	0.016	0.018	0.019	0.020	0.020	0.020	0.019	0.018	0.016	0.014	0.012	0.009	0.007	0.003
TOTAL DEAD LOAD DEFLECTION	0.000	0.037	0.071	0.103	0.132	0.157	-0.179	0.196	0.208	0.217	0.219	0.217	0.209	0.197	0.180	0.158	0.133	0.104	0.072	0.037
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	37	71	103	132	157	179	196	208	217	219	217	209	197	180	158	133	104	72	37

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

PROJECT NO. R-0977A  
CHEROKEE COUNTY  
STATION: 18+31.299-LC1B2-

SHEET 2 OF 2



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUPERSTRUCTURE  
DEAD LOAD  
DEFLECTIONS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			230
2			4			230

DRAWN BY : A.S. CALLAWAY DATE : 6/23/04  
CHECKED BY : W.D. CRUTCHER DATE : 9/20/04