

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

TWENTIETH POINTS	SPAN A																				SPAN B																						
	GIRDERS 5 & 6																				GIRDERS 5 & 6																						
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.013	-0.025	-0.035	-0.045	-0.052	-0.058	-0.061	-0.062	-0.061	-0.058	-0.053	-0.047	-0.040	-0.032	-0.025	-0.017	-0.011	-0.006	-0.002	0.000	0.000	-0.001	-0.003	-0.007	-0.012	-0.018	-0.024	-0.030	-0.036	-0.042	-0.046	-0.049	-0.050	-0.050	-0.047	-0.043	-0.037	-0.029	-0.020	-0.010	0.000	
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	-0.029	-0.056	-0.081	-0.103	-0.120	-0.133	-0.141	-0.143	-0.141	-0.134	-0.123	-0.109	-0.092	-0.075	-0.057	-0.041	-0.026	-0.013	-0.004	0.000	0.000	-0.001	-0.006	-0.015	-0.026	-0.038	-0.052	-0.066	-0.080	-0.092	-0.102	-0.108	-0.111	-0.110	-0.105	-0.095	-0.082	-0.065	-0.045	-0.023	0.000	
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	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	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	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	-0.042	-0.081	-0.117	-0.148	-0.173	-0.191	-0.202	-0.205	-0.202	-0.192	-0.176	-0.156	-0.132	-0.107	-0.082	-0.058	-0.037	-0.019	-0.006	0.000	0.000	-0.001	-0.009	-0.021	-0.037	-0.056	-0.076	-0.096	-0.116	-0.134	-0.148	-0.157	-0.161	-0.160	-0.152	-0.138	-0.119	-0.094	-0.065	-0.034	0.000	
VERTICAL CURVE ORDINATE	0.000	+0.063	+0.120	+0.169	+0.212	+0.249	+0.279	+0.302	+0.319	+0.329	+0.332	+0.329	+0.319	+0.302	+0.279	+0.249	+0.212	+0.169	+0.120	+0.063	0.000	0.000	+0.055	+0.104	+0.147	+0.183	+0.213	+0.237	+0.255	+0.267	+0.272	+0.271	+0.264	+0.251	+0.231	+0.206	+0.174	+0.139	+0.104	+0.069	+0.035	0.000	
REQUIRED CAMBER	0	+1/4"	+2 3/8"	+3 7/16"	+4 9/16"	+5 1/16"	+5 5/8"	+6 1/16"	+6 5/8"	+6 1/16"	+5 11/16"	+5 3/8"	+4 5/8"	+3 15/16"	+3 1/4"	+2 1/2"	+1 11/16"	+1 3/8"	0	0	0	+1 1/16"	+1 3/8"	+2"	+2 5/8"	+3 1/4"	+3 3/4"	+4 3/16"	+4 9/16"	+4 7/8"	+5"	+5 1/16"	+4 15/16"	+4 11/16"	+4 5/16"	+3 3/4"	+3 1/16"	+2 3/8"	+1 5/8"	+1 3/16"	0		

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

TWENTIETH POINTS	SPAN A																				SPAN B																					
	GIRDER 7																				GIRDER 7																					
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.013	-0.025	-0.035	-0.045	-0.052	-0.058	-0.061	-0.062	-0.061	-0.058	-0.053	-0.047	-0.040	-0.032	-0.025	-0.017	-0.011	-0.006	-0.002	0.000	0.000	-0.001	-0.003	-0.007	-0.012	-0.018	-0.024	-0.030	-0.036	-0.042	-0.046	-0.049	-0.050	-0.050	-0.047	-0.043	-0.037	-0.029	-0.020	-0.010	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	-0.042	-0.083	-0.119	-0.151	-0.176	-0.195	-0.206	-0.210	-0.206	-0.196	-0.180	-0.159	-0.135	-0.109	-0.084	-0.060	-0.038	-0.020	-0.006	0.000	0.000	-0.001	-0.009	-0.021	-0.037	-0.056	-0.076	-0.097	-0.117	-0.135	-0.149	-0.159	-0.163	-0.161	-0.154	-0.140	-0.120	-0.095	-0.066	-0.034	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	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	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	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	-0.055	-0.107	-0.155	-0.196	-0.229	-0.253	-0.267	-0.272	-0.267	-0.254	-0.233	-0.206	-0.175	-0.141	-0.108	-0.077	-0.049	-0.025	-0.008	0.000	0.000	-0.002	-0.012	-0.028	-0.049	-0.074	-0.100	-0.127	-0.153	-0.176	-0.195	-0.208	-0.213	-0.211	-0.201	-0.182	-0.157	-0.124	-0.086	-0.044	0.000
VERTICAL CURVE ORDINATE	0.000	+0.063	+0.120	+0.169	+0.212	+0.249	+0.279	+0.302	+0.319	+0.329	+0.332	+0.329	+0.319	+0.302	+0.279	+0.249	+0.212	+0.169	+0.120	+0.063	0.000	0.000	+0.053	+0.100	+0.141	+0.175	+0.204	+0.226	+0.242	+0.251	+0.254	+0.252	+0.243	+0.227	+0.206	+0.178	+0.148	+0.119	+0.089	+0.059	+0.030	0.000
REQUIRED CAMBER	0	+1 7/16"	+2 3/4"	+3 3/8"	+4 7/8"	+5 3/4"	+6 3/8"	+6 13/16"	+7 1/16"	+7 1/8"	+7 1/16"	+6 3/4"	+6 5/16"	+5 3/4"	+5 1/16"	+4 5/8"	+3 1/2"	+2 5/8"	+1 3/4"	+7/8"	0	0	+1 1/16"	+1 5/16"	+2"	+2 1/16"	+3 5/16"	+3 7/8"	+4 7/16"	+4 7/8"	+5 3/16"	+5 3/8"	+5 3/8"	+5 5/16"	+5"	+4 9/16"	+4"	+3 5/16"	+2 9/16"	+1 3/4"	+7/8"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

TWENTIETH POINTS	SPAN A																				SPAN B																					
	GIRDERS 8 & 9																				GIRDERS 8 & 9																					
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.013	-0.025	-0.035	-0.045	-0.052	-0.058	-0.061	-0.062	-0.061	-0.058	-0.053	-0.047	-0.040	-0.032	-0.025	-0.017	-0.011	-0.006	-0.002	0.000	0.000	-0.001	-0.003	-0.007	-0.012	-0.018	-0.024	-0.030	-0.036	-0.042	-0.046	-0.049	-0.050	-0.050	-0.047	-0.043	-0.037	-0.029	-0.020	-0.010	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	-0.042	-0.083	-0.119	-0.151	-0.176	-0.195	-0.206	-0.210	-0.206	-0.196	-0.180	-0.159	-0.135	-0.109	-0.084	-0.060	-0.038	-0.020	-0.006	0.000	0.000	-0.001	-0.009	-0.021	-0.037	-0.056	-0.076	-0.097	-0.117	-0.135	-0.149	-0.159	-0.163	-0.161	-0.154	-0.140	-0.120	-0.095	-0.066	-0.034	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	-0.003	-0.006	-0.009	-0.011	-0.013	-0.014	-0.015	-0.015	-0.015	-0.015	-0.013	-0.012	-0.010	-0.008	-0.006	-0.005	-0.003	-0.002	-0.001	0.000	0.000	0.000	-0.001	-0.002	-0.003	-0.004	-0.006	-0.008	-0.009	-0.010	-0.011	-0.012	-0.012	-0.012	-0.011	-0.010	-0.009	-0.007	-0.005	-0.002	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	-0.058	-0.113	-0.163	-0.206	-0.241	-0.267	-0.282	-0.287	-0.283	-0.269	-0.247	-0.218	-0.185	-0.150	-0.115	-0.081	-0.051	-0.027	-0.009	0.000	0.000	-0.002	-0.012	-0.030	-0.052	-0.078	-0.106	-0.134	-0.162	-0.187	-0.206	-0.219	-0.225	-0.223	-0.212	-0.193	-0.166	-0.131	-0.091	-0.047	0.000
VERTICAL CURVE ORDINATE	0.000	+0.063	+0.120	+0.169	+0.212	+0.249	+0.279	+0.302	+0.319	+0.329	+0.332	+0.329	+0.319	+0.302	+0.279	+0.249	+0.212	+0.169	+0.120	+0.063	0.000	0.000	+0.050	+0.094	+0.132	+0.163	+0.188	+0.207	+0.220	+0.227	+0.227	+0.221	+0.209	+0.191	+0.168	+0.144	+0.120	+0.096	+0.072	+0.048	+0.024	0.000
REQUIRED CAMBER	0	+1 7/16"	+2 3/16"	+4"	+5"	+5 7/8"	+6 9/16"	+7"	+7 1/4"	+7 5/16"	+7 3/16"	+6 7/8"	+6 7/16"	+5 13/16"	+5 1/8"	+4 3/8"	+3 1/2"	+2 5/8"	+1 3/4"	+7/8"	0	0	+5/8"	+1 1/4"	+1 15/16"	+2 3/16"	+3 3/16"	+3 3/4"	+4 1/4"	+4 11/16"	+4 15/16"	+5 1/8"	+5 1/8"	+5"	+4 11/16"	+4 1/4"	+3 3/4"	+3 1/8"	+2 7/16"	+1 11/16"	+7/8"	0

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "REQUIRED CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).
 DEFLECTIONS ARE TAKEN AT TWENTIETH POINTS BETWEEN BEARINGS.
 SIGN CONVENTION FOR DEAD LOAD DEFLECTION TABLES $\begin{matrix} \uparrow + \\ \downarrow - \\ 0 \end{matrix}$

PROJECT NO. I-2102
FORSYTH COUNTY
 STATION: 20+71.54 -L-
 SHEET 2 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
 DEAD LOAD
 DEFLECTIONS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-18
1			3			TOTAL SHEETS
2			4			51

DRAWN BY: J.P. ADAMS DATE: 8/21/03
 CHECKED BY: S.H. SOCKWELL DATE: 10/3/03