

## DEAD LOAD DEFLECTION TABLE FOR GIRDERS

ORDINATES		SPAN "A"																													
		GIRDER 1																													
THIRTIETH POINTS	BRG.	0.033	0.066	0.1	0.133	0.166	0.2	0.233	0.266	0.3	0.333	0.366	0.4	0.433	0.466	0.5	0.533	0.566	0.6	0.633	0.666	0.7	0.733	0.766	0.8	0.833	0.866	0.9	0.933	0.966	BRG.
* WEIGHT OF STEEL	0.000	0.042	0.084	0.123	0.161	0.196	0.228	0.256	0.281	0.301	0.317	0.328	0.335	0.338	0.336	0.330	0.320	0.306	0.288	0.267	0.243	0.217	0.190	0.161	0.133	0.105	0.079	0.055	0.034	0.015	0.000
* WEIGHT OF SLAB **	0.000	0.080	0.159	0.234	0.306	0.372	0.431	0.484	0.529	0.567	0.596	0.617	0.629	0.632	0.628	0.615	0.594	0.567	0.532	0.492	0.446	0.396	0.344	0.290	0.237	0.185	0.137	0.094	0.057	0.025	0.000
* WEIGHT OF RAIL	0.000	0.012	0.023	0.034	0.044	0.054	0.062	0.070	0.077	0.082	0.086	0.089	0.091	0.092	0.091	0.090	0.087	0.083	0.078	0.072	0.065	0.058	0.050	0.043	0.035	0.027	0.020	0.014	0.008	0.004	0.000
* WEIGHT OF SIDEWALK	0.000	0.008	0.016	0.023	0.030	0.037	0.043	0.048	0.053	0.057	0.060	0.062	0.063	0.063	0.063	0.062	0.060	0.057	0.054	0.050	0.045	0.040	0.035	0.029	0.024	0.019	0.014	0.010	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.142	0.281	0.415	0.542	0.659	0.765	0.859	0.940	1.006	1.059	1.096	1.118	1.126	1.118	1.096	1.061	1.012	0.952	0.880	0.800	0.712	0.619	0.524	0.429	0.337	0.250	0.172	0.104	0.047	0.000
REQUIRED CAMBER	0"	1 1/16"	3 3/8"	5"	6 1/2"	7 7/8"	9 3/16"	10 5/16"	11 1/4"	12 1/16"	12 11/16"	13 3/8"	13 7/16"	13 1/2"	13 5/16"	13 1/8"	12 3/4"	12 1/8"	11 7/16"	10 9/16"	9 5/8"	8 9/16"	7 7/16"	6 5/16"	5 1/8"	4 1/16"	3"	2 1/16"	1 1/4"	9/16"	0"

ORDINATES		SPAN "A"																													
		GIRDER 2																													
THIRTIETH POINTS	BRG.	0.033	0.066	0.1	0.133	0.166	0.2	0.233	0.266	0.3	0.333	0.366	0.4	0.433	0.466	0.5	0.533	0.566	0.6	0.633	0.666	0.7	0.733	0.766	0.8	0.833	0.866	0.9	0.933	0.966	BRG.
* WEIGHT OF STEEL	0.000	0.043	0.085	0.126	0.164	0.200	0.233	0.261	0.286	0.307	0.323	0.335	0.342	0.344	0.343	0.336	0.326	0.312	0.293	0.272	0.248	0.221	0.193	0.164	0.135	0.107	0.080	0.056	0.034	0.016	0.000
* WEIGHT OF SLAB **	0.000	0.089	0.176	0.260	0.339	0.412	0.478	0.537	0.586	0.628	0.660	0.683	0.696	0.700	0.694	0.680	0.657	0.626	0.588	0.543	0.492	0.437	0.379	0.319	0.260	0.203	0.150	0.102	0.061	0.027	0.000
* WEIGHT OF RAIL	0.000	0.011	0.023	0.033	0.044	0.053	0.062	0.069	0.076	0.081	0.086	0.089	0.091	0.091	0.091	0.089	0.086	0.082	0.078	0.072	0.065	0.058	0.051	0.043	0.035	0.028	0.021	0.014	0.009	0.004	0.000
* WEIGHT OF SIDEWALK	0.000	0.008	0.016	0.023	0.030	0.037	0.042	0.048	0.052	0.056	0.059	0.061	0.062	0.063	0.063	0.061	0.059	0.057	0.054	0.050	0.045	0.040	0.035	0.030	0.024	0.019	0.014	0.010	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.151	0.299	0.442	0.577	0.702	0.815	0.915	1.001	1.072	1.127	1.167	1.191	1.198	1.190	1.167	1.129	1.077	1.013	0.936	0.851	0.757	0.658	0.557	0.455	0.357	0.265	0.182	0.110	0.049	0.000
REQUIRED CAMBER	0"	1 1/16"	3 9/16"	5 5/16"	6 5/16"	8 7/16"	9 3/4"	11"	12"	12 7/8"	13 1/2"	14"	14 5/16"	14 3/8"	14 1/4"	14"	13 9/16"	12 5/16"	12 1/8"	11 1/4"	10 3/16"	9 1/16"	7 7/8"	6 1/16"	5 1/16"	4 5/16"	3 3/16"	2 3/16"	1 5/16"	9/16"	0"

ORDINATES		SPAN "A"																													
		GIRDER 3																													
THIRTIETH POINTS	BRG.	0.033	0.066	0.1	0.133	0.166	0.2	0.233	0.266	0.3	0.333	0.366	0.4	0.433	0.466	0.5	0.533	0.566	0.6	0.633	0.666	0.7	0.733	0.766	0.8	0.833	0.866	0.9	0.933	0.966	BRG.
* WEIGHT OF STEEL	0.000	0.043	0.085	0.126	0.165	0.200	0.233	0.262	0.287	0.307	0.324	0.335	0.343	0.345	0.344	0.337	0.327	0.313	0.295	0.273	0.249	0.222	0.194	0.165	0.136	0.108	0.081	0.056	0.034	0.016	0.000
* WEIGHT OF SLAB **	0.000	0.089	0.176	0.260	0.339	0.412	0.478	0.537	0.587	0.629	0.661	0.684	0.698	0.702	0.697	0.684	0.661	0.631	0.593	0.548	0.497	0.441	0.383	0.323	0.264	0.206	0.152	0.104	0.063	0.028	0.000
* WEIGHT OF RAIL	0.000	0.012	0.023	0.034	0.044	0.054	0.062	0.070	0.077	0.082	0.087	0.090	0.092	0.092	0.090	0.088	0.084	0.079	0.073	0.067	0.059	0.052	0.044	0.036	0.029	0.021	0.015	0.009	0.004	0.000	
* WEIGHT OF SIDEWALK	0.000	0.008	0.016	0.023	0.030	0.037	0.043	0.048	0.053	0.057	0.060	0.062	0.063	0.064	0.063	0.062	0.060	0.058	0.054	0.050	0.046	0.041	0.036	0.030	0.025	0.020	0.015	0.010	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.151	0.300	0.443	0.578	0.703	0.817	0.917	1.003	1.075	1.131	1.172	1.196	1.204	1.196	1.173	1.136	1.085	1.020	0.944	0.858	0.764	0.665	0.563	0.461	0.362	0.269	0.185	0.112	0.050	0.000
REQUIRED CAMBER	0"	1 1/16"	3 5/8"	5 5/16"	6 5/16"	8 7/16"	9 3/16"	11"	12 1/16"	12 7/8"	13 9/16"	14 1/16"	14 3/8"	14 7/16"	14 3/8"	14 1/16"	13 5/8"	13"	12 1/4"	11 5/16"	10 5/16"	9 3/16"	8"	6 3/4"	5 9/16"	4 3/8"	3 1/4"	2 3/16"	1 3/8"	5/8"	0"

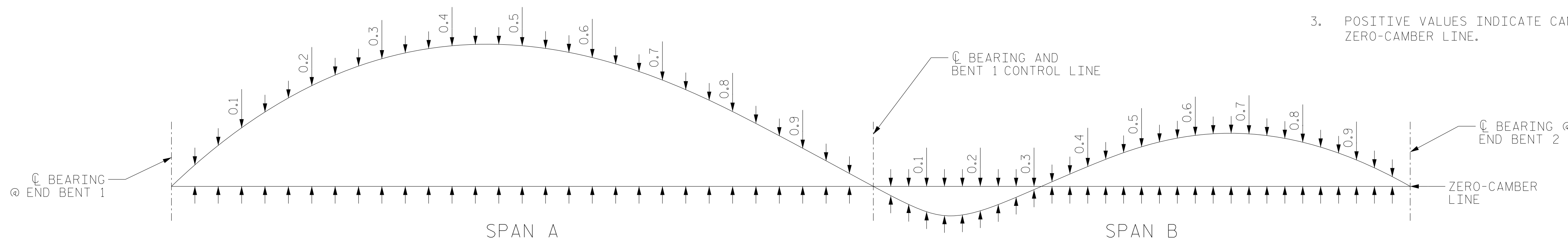
ORDINATES		SPAN "A"																													
		GIRDER 4																													
THIRTIETH POINTS	BRG.	0.033	0.066	0.1	0.133	0.166	0.2	0.233	0.266	0.3	0.333	0.366	0.4	0.433	0.466	0.5	0.533	0.566	0.6	0.633	0.666	0.7	0.733	0.766	0.8	0.833	0.866	0.9	0.933	0.966	BRG.
* WEIGHT OF STEEL	0.000	0.042	0.084	0.124	0.162	0.198	0.230	0.258	0.283	0.303	0.319	0.331	0.338	0.341	0.339	0.333	0.323	0.309	0.291	0.270	0.247	0.220	0.193	0.164	0.135	0.107	0.081	0.056	0.035	0.016	0.000
* WEIGHT OF SLAB **	0.000	0.081	0.160	0.236	0.308	0.375	0.435	0.489	0.534	0.572	0.602	0.623	0.636	0.640	0.636	0.623	0.603	0.575	0.541	0.500	0.454	0.404	0.351	0.297	0.243	0.190	0.141	0.097	0.059	0.026	0.000
* WEIGHT OF RAIL	0.000	0.012	0.024	0.035	0.045	0.055	0.064	0.072	0.079	0.085	0.089	0.093	0.095	0.096	0.095	0.093	0.091	0.087	0.082	0.076	0.069	0.062	0.054	0.046	0.038	0.030	0.022	0.015	0.009	0.004	0.000
* WEIGHT OF SIDEWALK	0.000	0.008	0.016	0.024	0.031	0.038	0.044	0.050	0.054	0.058	0.062	0.064	0.065	0.066	0.066	0.064	0.062	0.060	0.056	0.052	0.048	0.043	0.037	0.032	0.026	0.021	0.015	0.011	0.006	0.003	0.000
TOTAL DL DEFLECTION	0.000	0.143	0.284	0.419	0.547	0.666	0.773	0.869	0.951	1.019	1.072	1.111	1.134	1.142	1.136	1.114	1.079	1.031	0.970	0.899	0.818	0.729	0.635	0.539	0.442	0.348	0.259	0.179	0.109	0.049	0.000
REQUIRED CAMBER	0"	1 1/16"	3 3/8"	5"	6 9/16"	8"	9 1/4"	10 7/16"	11 7/16"	12 1/4"	12 7/8"	13 5/16"	13 5/8"	13 1/16"	13 5/8"	13 3/8"	12 5/16"	12 3/8"	11 5/8"	10 13/16"	9 13/16"	8 3/4"	7 5/8"	6 7/16"	5 9/16"	4 3/16"	3 1/8"	2 1/8"	1 5/16"	9/16"	0"

\* DEFLECTION DUE TO  
 \*\* INCLUDES SLAB, BUILD-UP AND STAY-IN-PLACE METAL FORMS.

- CAMBER NOTES:**
- ALL DEFLECTIONS AND CAMBER VALUES SHOWN ARE IN FEET (DECIMAL FORM), EXCEPT FOR "REQUIRED CAMBER" GIVEN IN INCHES (FRACTION FORM).
  - NO VERTICAL CURVE ORDINATE ON BRIDGE.
  - POSITIVE VALUES INDICATE CAMBER IS ABOVE ZERO-CAMBER LINE.

PROJECT NO. U-2579AB  
FORSYTH COUNTY  
 STATION: 23+43.03 -Y16-

SHEET 1 OF 2



**SCHEMATIC CAMBER ORDINATES**

FOR CAMBER VALUES AT 30TH POINTS, SEE TABLES.

DRAWN BY : MRA DATE : 12/2019  
 CHECKED BY : MAL DATE : 12/2019  
 DESIGN ENGINEER OF RECORD: JMR DATE : 12/2019

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SUPERSTRUCTURE DEAD LOAD DEFLECTIONS SPAN A	SHEET NO. <b>S7-18</b> TOTAL SHEETS 48
REVISIONS							
NO.	BY:	DATE:	NO.	BY:	DATE:		
1			3				
2			4				