

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

ORDINATES		SPAN ``B``																													
		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	-0.009	-0.016	-0.021	-0.025	-0.027	-0.027	-0.026	-0.024	-0.021	-0.017	-0.013	-0.008	-0.002	0.003	0.008	0.013	0.017	0.021	0.024	0.026	0.027	0.027	0.027	0.025	0.022	0.019	0.015	0.010	0.005	0.000
* WEIGHT OF SLAB **	0.000	-0.014	-0.023	-0.029	-0.032	-0.031	-0.027	-0.020	-0.011	0.000	0.013	0.026	0.040	0.054	0.068	0.080	0.091	0.100	0.107	0.111	0.113	0.112	0.108	0.102	0.093	0.082	0.068	0.053	0.036	0.018	0.000
* WEIGHT OF RAIL	0.000	-0.002	-0.003	-0.004	-0.004	-0.004	-0.003	-0.002	0.000	0.001	0.003	0.005	0.007	0.009	0.011	0.012	0.014	0.015	0.016	0.016	0.016	0.016	0.016	0.015	0.013	0.012	0.010	0.008	0.005	0.003	0.000
* WEIGHT OF SIDEWALK	0.000	-0.001	-0.002	-0.003	-0.003	-0.003	-0.002	-0.001	0.000	0.001	0.002	0.003	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.009	0.008	0.007	0.005	0.004	0.002	0.000
TOTAL DL DEFLECTION	0.000	-0.026	-0.044	-0.057	-0.064	-0.065	-0.059	-0.049	-0.035	-0.018	0.001	0.022	0.044	0.067	0.089	0.109	0.127	0.142	0.154	0.162	0.166	0.166	0.161	0.153	0.140	0.123	0.103	0.080	0.055	0.028	0.000
REQUIRED CAMBER	0"	-5/16"	-9/16"	-11/16"	-3/4"	-3/4"	-11/16"	-9/16"	-7/16"	-1/4"	0"	1/4"	9/16"	13/16"	1/16"	15/16"	1/2"	11/16"	17/8"	15/16"	2"	2"	15/16"	13/16"	11/16"	1/2"	1/4"	15/16"	11/16"	5/16"	0"

ORDINATES		SPAN ``B``																													
		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	-0.009	-0.016	-0.021	-0.025	-0.026	-0.026	-0.025	-0.022	-0.019	-0.015	-0.010	-0.004	0.001	0.007	0.012	0.017	0.022	0.025	0.028	0.030	0.031	0.031	0.030	0.028	0.025	0.021	0.017	0.011	0.006	0.000
* WEIGHT OF SLAB **	0.000	-0.014	-0.024	-0.030	-0.032	-0.030	-0.024	-0.016	-0.004	0.009	0.024	0.040	0.056	0.072	0.088	0.102	0.114	0.124	0.131	0.135	0.137	0.135	0.130	0.122	0.111	0.098	0.082	0.063	0.043	0.022	0.000
* WEIGHT OF RAIL	0.000	-0.002	-0.003	-0.004	-0.005	-0.004	-0.004	-0.003	-0.002	0.000	0.002	0.003	0.005	0.007	0.009	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.014	0.013	0.012	0.011	0.009	0.007	0.005	0.002	0.000
* WEIGHT OF SIDEWALK	0.000	-0.001	-0.002	-0.003	-0.003	-0.003	-0.003	-0.002	-0.001	0.000	0.001	0.002	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.008	0.007	0.006	0.005	0.003	0.002	0.000
TOTAL DL DEFLECTION	0.000	-0.027	-0.046	-0.058	-0.065	-0.064	-0.057	-0.045	-0.029	-0.010	0.012	0.036	0.061	0.086	0.110	0.132	0.151	0.168	0.180	0.188	0.192	0.191	0.185	0.175	0.160	0.141	0.118	0.092	0.063	0.032	0.000
REQUIRED CAMBER	0"	-5/16"	-9/16"	-11/16"	-3/4"	-3/4"	-11/16"	-9/16"	-3/8"	-1/8"	1/8"	7/16"	3/4"	1"	15/16"	19/16"	13/16"	2"	23/16"	21/4"	25/16"	25/16"	21/4"	21/8"	15/16"	11/16"	17/16"	11/8"	3/4"	3/8"	0"

ORDINATES		SPAN ``B``																														
		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	-0.009	-0.016	-0.021	-0.025	-0.027	-0.027	-0.025	-0.023	-0.019	-0.015	-0.011	-0.005	0.000	0.006	0.011	0.016	0.021	0.025	0.028	0.030	0.031	0.031	0.030	0.028	0.025	0.021	0.016	0.011	0.006	0.000	
* WEIGHT OF SLAB **	0.000	-0.015	-0.025	-0.031	-0.034	-0.032	-0.027	-0.018	-0.007	0.006	0.020	0.036	0.052	0.069	0.084	0.098	0.110	0.120	0.128	0.133	0.134	0.133	0.128	0.120	0.110	0.096	0.081	0.063	0.043	0.022	0.000	
* WEIGHT OF RAIL	0.000	-0.002	-0.004	-0.005	-0.005	-0.005	-0.004	-0.003	-0.002	-0.001	0.001	0.003	0.004	0.006	0.008	0.009	0.011	0.012	0.013	0.014	0.014	0.014	0.013	0.013	0.012	0.011	0.010	0.008	0.007	0.004	0.002	0.000
* WEIGHT OF SIDEWALK	0.000	-0.001	-0.002	-0.003	-0.003	-0.003	-0.003	-0.002	-0.002	-0.001	0.001	0.002	0.003	0.004	0.005	0.007	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.005	0.003	0.002	0.000
TOTAL DL DEFLECTION	0.000	-0.027	-0.047	-0.061	-0.068	-0.067	-0.061	-0.050	-0.034	-0.015	0.006	0.030	0.054	0.079	0.103	0.126	0.145	0.162	0.174	0.183	0.187	0.186	0.181	0.171	0.157	0.138	0.116	0.090	0.062	0.031	0.000	
REQUIRED CAMBER	0"	-5/16"	-9/16"	-3/4"	-13/16"	-13/16"	-3/4"	-5/8"	-7/16"	-3/16"	1/16"	3/8"	5/8"	15/16"	11/4"	11/2"	13/4"	115/16"	21/16"	23/16"	21/4"	21/4"	23/16"	21/16"	17/8"	11/16"	13/8"	11/16"	3/4"	3/8"	0"	

ORDINATES		SPAN ``B``																														
		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	-0.009	-0.017	-0.022	-0.026	-0.028	-0.029	-0.028	-0.026	-0.023	-0.020	-0.015	-0.010	-0.005	0.000	0.005	0.010	0.015	0.018	0.022	0.024	0.025	0.025	0.025	0.023	0.021	0.018	0.014	0.010	0.005	0.000	
* WEIGHT OF SLAB **	0.000	-0.014	-0.025	-0.032	-0.035	-0.035	-0.031	-0.025	-0.016	-0.005	0.006	0.020	0.034	0.048	0.061	0.073	0.084	0.093	0.100	0.105	0.107	0.106	0.103	0.097	0.089	0.078	0.066	0.051	0.035	0.018	0.000	
* WEIGHT OF RAIL	0.000	-0.002	-0.004	-0.005	-0.006	-0.006	-0.005	-0.004	-0.003	-0.002	0.000	0.002	0.004	0.005	0.007	0.009	0.010	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.012	0.010	0.009	0.007	0.005	0.002	0.000	
* WEIGHT OF SIDEWALK	0.000	-0.002	-0.003	-0.003	-0.004	-0.004	-0.004	-0.003	-0.002	-0.001	0.000	0.001	0.002	0.004	0.005	0.006	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.005	0.003	0.002	0.000
TOTAL DL DEFLECTION	0.000	-0.027	-0.048	-0.063	-0.071	-0.073	-0.069	-0.060	-0.047	-0.031	-0.013	0.007	0.029	0.052	0.074	0.094	0.112	0.128	0.140	0.149	0.154	0.154	0.151	0.143	0.132	0.117	0.098	0.076	0.052	0.027	0.000	
REQUIRED CAMBER	0"	-5/16"	-9/16"	-3/4"	-7/8"	-7/8"	-13/16"	-3/4"	-9/16"	-3/8"	-3/16"	1/16"	3/8"	5/8"	7/8"	11/8"	13/8"	19/16"	11/16"	113/16"	113/16"	17/8"	113/16"	13/4"	19/16"	13/8"	13/16"	15/16"	5/8"	5/16"	0"	

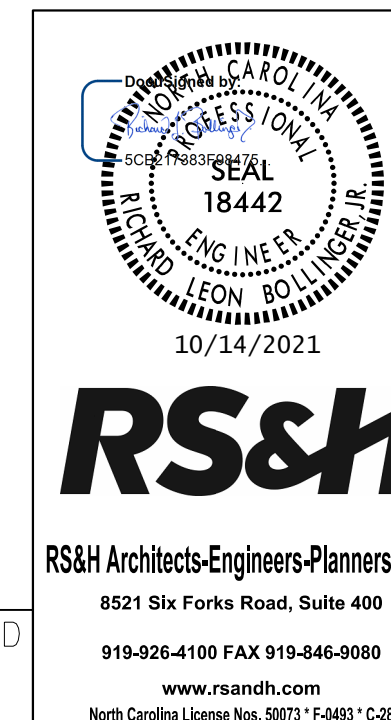
* DEFLECTION DUE TO
 ** INCLUDES SLAB, BUILD-UP AND STAY-IN-PLACE METAL FORMS.

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 2 OF 2



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

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			48
2			4			48