

NOTE:
FABRICATOR SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR NO-LOAD FIT-UP.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
ORDINATES	SPAN "A"																				
	GIRDER 1																				
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.007	0.013	0.019	0.024	0.028	0.030	0.032	0.032	0.032	0.030	0.027	0.023	0.019	0.015	0.010	0.007	0.004	0.002	0.000	0.000
* DEFLECTION DUE TO WEIGHT OF SLAB	0.000	0.026	0.050	0.073	0.093	0.108	0.118	0.126	0.130	0.130	0.126	0.116	0.103	0.087	0.071	0.053	0.037	0.024	0.013	0.005	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.008	0.010	0.012	0.013	0.013	0.014	0.014	0.013	0.012	0.010	0.008	0.007	0.005	0.003	0.002	0.001	0.000	0.000
TOTAL DL DEFLECTION	0.000	0.036	0.069	0.100	0.127	0.148	0.161	0.171	0.176	0.176	0.169	0.155	0.136	0.114	0.093	0.068	0.047	0.030	0.016	0.005	0.000
VERTICAL CURVE ORDINATE	0.000	0.044	0.084	0.118	0.148	0.174	0.195	0.211	0.223	0.230	0.232	0.230	0.223	0.211	0.195	0.174	0.148	0.118	0.084	0.044	0.000
REQUIRED CAMBER	0	1 ⁵ / ₁₆ "	1 ¹³ / ₁₆ "	2 ⁵ / ₈ "	3 ⁵ / ₁₆ "	3 ⁷ / ₈ "	4 ¹ / ₄ "	4 ⁹ / ₁₆ "	4 ¹³ / ₁₆ "	4 ⁷ / ₈ "	4 ¹³ / ₁₆ "	4 ⁵ / ₈ "	4 ⁵ / ₁₆ "	3 ⁷ / ₈ "	3 ⁷ / ₁₆ "	2 ⁷ / ₈ "	2 ³ / ₈ "	1 ³ / ₄ "	1 ³ / ₁₆ "	9/ ₁₆ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
ORDINATES	SPAN "A"																				
	GIRDER 2																				
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.008	0.015	0.021	0.026	0.030	0.033	0.035	0.035	0.035	0.033	0.029	0.025	0.021	0.016	0.012	0.007	0.004	0.002	0.000	0.000
* DEFLECTION DUE TO WEIGHT OF SLAB	0.000	0.030	0.058	0.085	0.107	0.124	0.136	0.145	0.149	0.150	0.145	0.135	0.118	0.101	0.081	0.060	0.043	0.028	0.015	0.006	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.009	0.011	0.013	0.014	0.015	0.015	0.014	0.013	0.011	0.009	0.007	0.005	0.003	0.002	0.001	0.000	0.000	0.000
TOTAL DL DEFLECTION	0.000	0.041	0.079	0.115	0.144	0.167	0.183	0.195	0.199	0.200	0.192	0.177	0.154	0.131	0.104	0.077	0.053	0.034	0.018	0.006	0.000
VERTICAL CURVE ORDINATE	0.000	0.044	0.084	0.118	0.148	0.174	0.195	0.211	0.223	0.230	0.232	0.230	0.223	0.211	0.195	0.174	0.148	0.118	0.084	0.044	0.000
REQUIRED CAMBER	0	1"	1 ⁵ / ₁₆ "	2 ¹³ / ₁₆ "	3 ¹ / ₂ "	4 ¹ / ₁₆ "	4 ⁹ / ₁₆ "	4 ⁷ / ₈ "	5 ¹ / ₁₆ "	5 ¹ / ₈ "	5 ¹ / ₁₆ "	4 ⁷ / ₈ "	4 ¹ / ₂ "	4 ¹ / ₈ "	3 ⁹ / ₁₆ "	3"	2 ⁷ / ₁₆ "	1 ¹³ / ₁₆ "	1 ³ / ₁₆ "	5/ ₈ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
ORDINATES	SPAN "A"																				
	GIRDER 3																				
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.008	0.016	0.023	0.029	0.033	0.036	0.037	0.038	0.037	0.035	0.032	0.027	0.022	0.017	0.012	0.007	0.004	0.002	0.000	0.000
* DEFLECTION DUE TO WEIGHT OF SLAB	0.000	0.034	0.065	0.095	0.120	0.139	0.153	0.163	0.167	0.168	0.163	0.149	0.132	0.111	0.091	0.068	0.048	0.031	0.017	0.007	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.004	0.007	0.010	0.012	0.014	0.015	0.016	0.016	0.016	0.016	0.014	0.012	0.010	0.008	0.006	0.004	0.002	0.001	0.000	0.000
TOTAL DL DEFLECTION	0.000	0.046	0.088	0.128	0.161	0.186	0.204	0.216	0.221	0.221	0.214	0.195	0.171	0.143	0.116	0.086	0.059	0.037	0.020	0.007	0.000
VERTICAL CURVE ORDINATE	0.000	0.044	0.084	0.118	0.148	0.174	0.195	0.211	0.223	0.230	0.232	0.230	0.223	0.211	0.195	0.174	0.148	0.118	0.084	0.044	0.000
REQUIRED CAMBER	0	1 ¹ / ₁₆ "	2 ¹ / ₁₆ "	2 ¹⁵ / ₁₆ "	3 ¹¹ / ₁₆ "	4 ⁵ / ₁₆ "	4 ¹³ / ₁₆ "	5 ¹ / ₈ "	5 ⁵ / ₁₆ "	5 ⁷ / ₁₆ "	5 ³ / ₈ "	5 ¹ / ₈ "	4 ³ / ₄ "	4 ¹ / ₄ "	3 ³ / ₄ "	3 ¹ / ₈ "	2 ¹ / ₂ "	1 ⁷ / ₈ "	1 ¹ / ₄ "	5/ ₈ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
ORDINATES	SPAN "A"																				
	GIRDER 4																				
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.009	0.017	0.024	0.031	0.036	0.039	0.040	0.041	0.040	0.038	0.033	0.029	0.023	0.018	0.012	0.007	0.004	0.001	0.000	0.000
* DEFLECTION DUE TO WEIGHT OF SLAB	0.000	0.037	0.072	0.104	0.133	0.155	0.170	0.181	0.186	0.186	0.180	0.164	0.145	0.123	0.100	0.075	0.053	0.034	0.019	0.008	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.004	0.007	0.011	0.014	0.015	0.017	0.017	0.018	0.018	0.017	0.015	0.013	0.011	0.008	0.006	0.004	0.002	0.001	0.000	0.000
TOTAL DL DEFLECTION	0.000	0.050	0.096	0.139	0.178	0.206	0.226	0.238	0.245	0.244	0.235	0.212	0.187	0.157	0.126	0.093	0.064	0.040	0.021	0.008	0.000
VERTICAL CURVE ORDINATE	0.000	0.044	0.084	0.118	0.148	0.174	0.195	0.211	0.223	0.230	0.232	0.230	0.223	0.211	0.195	0.174	0.148	0.118	0.084	0.044	0.000
REQUIRED CAMBER	0	1 ¹ / ₈ "	2 ¹ / ₈ "	3 ¹ / ₁₆ "	3 ¹⁵ / ₁₆ "	4 ⁹ / ₁₆ "	5 ¹ / ₁₆ "	5 ³ / ₈ "	5 ⁵ / ₈ "	5 ¹¹ / ₁₆ "	5 ⁵ / ₈ "	5 ⁵ / ₁₆ "	4 ¹⁵ / ₁₆ "	4 ⁷ / ₁₆ "	3 ⁷ / ₈ "	3 ³ / ₁₆ "	2 ⁹ / ₁₆ "	1 ⁷ / ₈ "	1 ¹ / ₄ "	5/ ₈ "	0

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

CAMBER NOTES:

1. ALL DEFLECTIONS AND CAMBER VALUES SHOWN ARE IN INCHES (DECIMAL FORM), EXCEPT FOR "REQUIRED CAMBER" GIVEN IN INCHES (FRACTIONAL FORM).

PROJECT NO. R-5516
CRAVEN COUNTY
 STATION: 32+25.84 -YEB01-
75+13.29 -L-
 SHEET 1 OF 4

DRAWN BY : N. K. BROWN DATE : 03/16
 CHECKED BY : J. C. MORRISON DATE : 03/16
 DESIGN E.O.R. : J. C. MORRISON DATE : 05/16

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE

GIRDER DEFLECTIONS
 AND CAMBER SCHEDULES

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-24 TOTAL SHEETS 51
2			4			

DATE: 4/17/2017 TIME: 3:05:34 PM
 USER: jrc/1496 D:\N:\R\60324\44_Sineum Road\MOI_Technical\MOI_Structure\Cadd\MOI_LED_S24_R5516_S1K1.DWG