



	1.00	1.01	1.02	1.03	F.S. 1	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	F.S. 2	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30		
GIRDER 1	DEFLECTION DUE TO WT. OF STEEL	0.000	-0.025	-0.049	-0.073	-0.093	-0.094	-0.111	-0.130	-0.145	-0.155	-0.168	-0.174	-0.177	-0.181	-0.179	-0.173	-0.170	-0.160	-0.148	-0.137	-0.123	-0.107	-0.092	-0.080	-0.076	-0.061	-0.046	-0.032	-0.022	-0.011	-0.005	-0.004	0.000	
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	-0.055	-0.106	-0.159	-0.203	-0.204	-0.242	-0.283	-0.313	-0.336	-0.362	-0.376	-0.380	-0.389	-0.385	-0.372	-0.363	-0.343	-0.316	-0.293	-0.261	-0.227	-0.195	-0.168	-0.160	-0.128	-0.094	-0.066	-0.046	-0.021	-0.010	-0.007	0.000	
	DEFL. DUE TO WT. OF BARRIER RAIL	0.000	-0.008	-0.015	-0.023	-0.029	-0.030	-0.035	-0.041	-0.046	-0.050	-0.054	-0.056	-0.056	-0.057	-0.056	-0.055	-0.052	-0.048	-0.044	-0.040	-0.040	-0.035	-0.030	-0.026	-0.025	-0.015	-0.011	-0.008	-0.004	-0.002	-0.001	0.000		
	TOTAL DEAD LOAD DEFLECTION	0.000	-0.088	-0.170	-0.255	-0.325	-0.327	-0.388	-0.455	-0.504	-0.541	-0.584	-0.606	-0.613	-0.628	-0.621	-0.601	-0.587	-0.555	-0.512	-0.475	-0.424	-0.370	-0.317	-0.274	-0.261	-0.209	-0.155	-0.110	-0.076	-0.036	-0.017	-0.012	0.000	
	VERTICAL CURVE ORDINATE	0.000	0.033	0.064	0.092	0.118	0.119	0.143	0.165	0.184	0.201	0.216	0.229	0.239	0.247	0.253	0.256	0.258	0.257	0.254	0.248	0.240	0.230	0.217	0.205	0.202	0.185	0.165	0.143	0.119	0.093	0.064	0.033	0.000	
	REQUIRED CAMBER	0"	1 1/16"	2 3/16"	4 3/16"	5 5/16"	5 3/8"	6 3/8"	7 1/16"	8 1/4"	8 7/8"	9 5/8"	10"	10 1/4"	10 1/2"	10 1/2"	10 5/16"	10 1/8"	9 3/4"	9 3/16"	8 1/16"	7 15/16"	7 3/16"	6 3/16"	5 3/4"	5 9/16"	4 3/4"	3 13/16"	3 1/16"	3"	2 5/16"	1 9/16"	1"	9/16"	0"
GIRDER 2	DEFLECTION DUE TO WT. OF STEEL	0.000	-0.018	-0.036	-0.053	-0.068	-0.072	-0.081	-0.095	-0.105	-0.113	-0.121	-0.126	-0.127	-0.130	-0.128	-0.123	-0.120	-0.113	-0.103	-0.095	-0.084	-0.073	-0.062	-0.050	-0.050	-0.039	-0.028	-0.019	-0.012	-0.005	-0.001	-0.002	0.000	
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	-0.045	-0.088	-0.131	-0.168	-0.176	-0.199	-0.233	-0.258	-0.275	-0.297	-0.307	-0.310	-0.316	-0.311	-0.300	-0.292	-0.274	-0.251	-0.231	-0.205	-0.176	-0.149	-0.122	-0.121	-0.095	-0.068	-0.046	-0.030	-0.012	-0.004	-0.004	0.000	
	DEFL. DUE TO WT. OF BARRIER RAIL	0.000	-0.004	-0.008	-0.013	-0.016	-0.017	-0.019	-0.022	-0.025	-0.027	-0.029	-0.030	-0.030	-0.031	-0.031	-0.030	-0.029	-0.027	-0.025	-0.023	-0.021	-0.018	-0.015	-0.012	-0.012	-0.010	-0.007	-0.005	-0.003	-0.001	0.000	0.000	0.000	
	TOTAL DEAD LOAD DEFLECTION	0.000	-0.068	-0.132	-0.197	-0.253	-0.264	-0.299	-0.350	-0.388	-0.415	-0.447	-0.462	-0.467	-0.477	-0.470	-0.453	-0.441	-0.414	-0.380	-0.349	-0.310	-0.267	-0.226	-0.185	-0.183	-0.144	-0.103	-0.069	-0.046	-0.018	-0.006	-0.006	0.000	
	VERTICAL CURVE ORDINATE	0.000	0.029	0.056	0.081	0.104	0.110	0.125	0.144	0.161	0.177	0.190	0.201	0.210	0.217	0.222	0.225	0.226	0.225	0.222	0.217	0.210	0.200	0.189	0.177	0.176	0.162	0.145	0.126	0.105	0.081	0.056	0.029	0.000	
	REQUIRED CAMBER	0"	1 3/16"	2 1/4"	3 5/16"	4 5/16"	4 1/2"	5 1/8"	5 15/16"	6 9/16"	7 1/8"	7 5/8"	7 15/16"	8 1/8"	8 5/16"	8 5/16"	8 1/8"	8"	7 11/16"	7 1/4"	6 13/16"	6 1/4"	5 5/8"	5"	4 5/16"	4 5/16"	3 11/16"	2 15/16"	2 5/16"	1 13/16"	1 3/16"	3/4"	7/16"	0"	
GIRDER 3	DEFLECTION DUE TO WT. OF STEEL	0.000	-0.014	-0.026	-0.040	-0.051	-0.056	-0.060	-0.070	-0.077	-0.082	-0.088	-0.090	-0.091	-0.092	-0.090	-0.086	-0.083	-0.077	-0.069	-0.062	-0.054	-0.045	-0.037	-0.028	-0.027	-0.021	-0.013	-0.008	-0.004	0.001	0.002	0.000	0.000	
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	-0.036	-0.069	-0.104	-0.133	-0.146	-0.157	-0.183	-0.202	-0.215	-0.231	-0.238	-0.239	-0.243	-0.238	-0.228	-0.221	-0.206	-0.187	-0.170	-0.148	-0.126	-0.103	-0.082	-0.078	-0.062	-0.041	-0.025	-0.015	-0.002	0.002	-0.001	0.000	
	DEFL. DUE TO WT. OF BARRIER RAIL	0.000	-0.004	-0.008	-0.011	-0.015	-0.016	-0.017	-0.020	-0.023	-0.024	-0.026	-0.027	-0.027	-0.027	-0.027	-0.026	-0.025	-0.023	-0.021	-0.019	-0.016	-0.014	-0.011	-0.009	-0.008	-0.006	-0.004	-0.003	-0.001	0.000	0.000	0.000	0.000	
	TOTAL DEAD LOAD DEFLECTION	0.000	-0.054	-0.103	-0.155	-0.198	-0.218	-0.234	-0.273	-0.301	-0.321	-0.345	-0.355	-0.357	-0.363	-0.355	-0.340	-0.328	-0.305	-0.277	-0.251	-0.219	-0.185	-0.152	-0.119	-0.113	-0.090	-0.059	-0.035	-0.020	-0.001	0.004	0.000	0.000	
	VERTICAL CURVE ORDINATE	0.000	0.025	0.049	0.070	0.090	0.100	0.108	0.125	0.140	0.153	0.164	0.173	0.182	0.188	0.192	0.195	0.196	0.194	0.192	0.188	0.182	0.174	0.164	0.153	0.151	0.140	0.125	0.109	0.091	0.071	0.048	0.025	0.000	
	REQUIRED CAMBER	0"	1 5/16"	1 13/16"	2 1/16"	3 1/16"	3 13/16"	4 1/8"	4 13/16"	5 5/16"	5 11/16"	6 1/8"	6 3/8"	6 7/16"	6 5/8"	6 9/16"	6 7/16"	6 1/4"	6"	5 5/8"	5 1/4"	4 13/16"	4 5/16"	3 13/16"	3 1/4"	3 3/16"	2 3/4"	2 3/16"	1 3/4"	1 5/16"	7/8"	1/2"	5/16"	0"	
GIRDER 4	DEFLECTION DUE TO WT. OF STEEL	0.000	-0.009	-0.018	-0.027	-0.034	-0.040	-0.040	-0.047	-0.051	-0.054	-0.058	-0.059	-0.059	-0.060	-0.058	-0.054	-0.052	-0.047	-0.042	-0.037	-0.031	-0.025	-0.019	-0.013	-0.011	-0.009	-0.004	0.000	0.001	0.004	0.003	0.001	0.000	
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	-0.026	-0.051	-0.076	-0.097	-0.113	-0.114	-0.133	-0.146	-0.155	-0.165	-0.169	-0.169	-0.171	-0.165	-0.156	-0.149	-0.137	-0.122	-0.108	-0.092	-0.075	-0.058	-0.042	-0.036	-0.029	-0.014	-0.004	0.001	0.008	0.008	0.003	0.001	0.000
	DEFL. DUE TO WT. OF BARRIER RAIL	0.000	-0.003	-0.005	-0.008	-0.010	-0.012	-0.012	-0.014	-0.015	-0.016	-0.017	-0.018	-0.018	-0.018	-0.017	-0.016	-0.016	-0.014	-0.013	-0.011	-0.010	-0.008	-0.006	-0.004	-0.004	-0.003	-0.001	0.000	0.000	0.001	0.001	0.001	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	-0.038	-0.074	-0.111	-0.142	-0.165	-0.166	-0.194	-0.213	-0.225	-0.241	-0.246	-0.245	-0.248	-0.240	-0.227	-0.217	-0.198	-0.176	-0.156	-0.132	-0.107	-0.083	-0.060	-0.051	-0.040	-0.019	-0.005	0.002	0.013	0.013	0.004	0.000	0.000
	VERTICAL CURVE ORDINATE	0.000	0.021	0.042	0.060	0.077	0.092	0.094	0.107	0.120	0.131	0.141	0.149	0.155	0.161	0.165	0.167	0.168	0.167	0.165	0.161	0.156	0.149	0.141	0.132	0.126	0.120	0.107	0.094	0.078	0.060	0.041	0.022	0.000	0.000
	REQUIRED CAMBER	0"	1 1/16"	1 3/8"	2 1/16"	2 5/8"	3 1/16"	3 1/8"	3 5/8"	4"	4 1/4"	4 9/16"	4 3/4"	4 13/16"	4 7/8"	4 7/8"	4 3/4"	4 5/8"	4 3/8"	4 1/8"	3 3/16"	3 3/16"	3 1/16"	2 11/16"	2 5/16"	2 1/8"	1 5/16"	1 1/2"	1 3/16"	1 5/16"	9/16"	3/8"	3/16"	0"	
GIRDER 5	DEFLECTION DUE TO WT. OF STEEL	0.000	-0.007	-0.013	-0.020	-0.025	-0.030	-0.031	-0.034	-0.037	-0.039	-0.041	-0.042	-0.041	-0.039	-0.036	-0.034	-0.030	-0.026	-0.022	-0.017	-0.012	-0.008	-0.004	-0.002	-0.001	0.003	0.004	0.005	0.006	0.005	0.002	0.000	0.000	
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	-0.017	-0.033	-0.049	-0.062	-0.072	-0.076	-0.084	-0.090	-0.100	-0.101	-0.098	-0.098	-0.092	-0.085	-0.078	-0.068	-0.057	-0.047	-0.035	-0.024	-0.012	-0.003	0.003	0.004	0.013	0.016	0.016	0.018	0.014	0.006	0.000	0.000	
	DEFL. DUE TO WT. OF BARRIER RAIL	0.000	-0.002	-0.005	-0.007	-0.009	-0.010	-0.011	-0.012	-0.013	-0.014	-0.014	-0.014	-0.014	-0.014	-0.013	-0.012	-0.011	-0.009	-0.008	-0.006	-0.005	-0.002	-0.001	-0.001	0.000	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.000	
	TOTAL DEAD LOAD DEFLECTION	0.000	-0.026	-0.050	-0.076	-0.096	-0.112	-0.118	-0.130	-0.141	-0.147	-0.156	-0.157	-0.154	-0.153	-0.145	-0.134	-0.124	-0.109	-0.092	-0.076	-0.058	-0.041	-0.023	-0.008	0.000	0.003	0.016	0.022	0.022	0.026	0.020	0.009	0.000	
	VERTICAL CURVE ORDINATE	0.000	0.018	0.036	0.051	0.066	0.079	0.083	0.091	0.102	0.112	0.119	0.127	0.132	0.137	0.140	0.142	0.141	0.140	0.136	0.132	0.126	0.120	0.111	0.104	0.102	0.091	0.079	0.065	0.051	0.035	0.019	0.000	0.000	
	REQUIRED CAMBER	0"	9/16"	1 1/16"	1 1/2"	1 5/16"	2 5/16"	2 1/16"	2 5/8"	2 5/16"	3 1/8"	3 5/16"	3 1/16"	3 1/2"	3 1/16"	3 5/16"	3 3/16"	3"	2 13/16"	2 9/16"	2 1/4"	2"	1 11/16"	1 7/16"	1 1/4"	1 3/16"	7/8"	1 1/16"	1/2"	5/16"	3/16"	1/8"	0"	0"	

SCHEMATIC CAMBER ORDINATES - SPAN A

NOTES:

- ▲ INCLUDES SLAB, BUILDUP AND STAY-IN-PLACE FORMS
- * FIELD SPLICE LOCATIONS SHOWN IN SCHEMATIC DIAGRAM FOR GIRDER 1 ONLY. FIELD SPLICE LOCATIONS FOR GIRDERS 2-5 ARE NOTED IN THE TABLE.

- VALUES ARE SHOWN IN FEET (DECIMAL FORMAT), EXCEPT "REQUIRED CAMBER" WHICH IS GIVEN IN INCHES.
- FOR GIRDER DESIGNATIONS, SEE FRAMING PLAN AND GIRDER DETAILS SHEETS.
- DEFLECTIONS IN THE DOWNWARD DIRECTION ARE NEGATIVE. A REQUIRED CAMBER IN THE UPWARD DIRECTION IS POSITIVE. SIGN CONVENTION FOR DEAD LOAD DEFLECTION.
- SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.
- FABRICATORS SHALL DETAIL CROSSFRAME MEMBERS AND CONNECTIONS FOR FULL DEAD LOAD FIT UP. GIRDERS SHOULD BE PLUMB AFTER FULL AMOUNT OF DEAD LOAD IS APPLIED.

PROJECT NO. **R-2707C**
CLEVELAND COUNTY
 STATION: **596+50.98 -L-**
 SHEET 1 OF 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by:
Tony R. Laws, Jr.
 CA0CE0F6B76AF7
 12/13/2016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUPERSTRUCTURE
STEEL GIRDER CAMBERS
SPAN A
 (SITE 6R)

SHEET NO. S8-22
 TOTAL SHEETS 44

REVISIONS			
NO.	BY:	DATE:	DATE:
1			
2			