

DEAD LOAD DEFLECTION AND CAMBER ORDINATES

SPAN A

GIRDER G4L

30TH POINTS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.036	0.072	0.105	0.138	0.167	0.195	0.219	0.242	0.261	0.278	0.291	0.302	0.310	0.314	0.316	0.314	0.310	0.302	0.291	0.278	0.261	0.242	0.219	0.195	0.167	0.138	0.105	0.072	0.036	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.058	0.144	0.227	0.306	0.378	0.444	0.503	0.556	0.603	0.642	0.674	0.699	0.716	0.726	0.728	0.722	0.709	0.690	0.663	0.630	0.590	0.543	0.490	0.431	0.367	0.296	0.220	0.139	0.055	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.005	0.009	0.014	0.018	0.022	0.026	0.029	0.032	0.035	0.037	0.039	0.040	0.041	0.042	0.042	0.042	0.041	0.040	0.039	0.037	0.035	0.032	0.029	0.026	0.022	0.018	0.014	0.009	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.099	0.225	0.347	0.462	0.567	0.664	0.751	0.830	0.898	0.956	1.004	1.041	1.067	1.082	1.086	1.078	1.060	1.032	0.993	0.944	0.885	0.817	0.739	0.651	0.556	0.452	0.339	0.220	0.096	0.000
VERTICAL CURVE ORDINATE	0.000	0.013	0.025	0.036	0.046	0.055	0.064	0.071	0.078	0.084	0.089	0.093	0.096	0.098	0.099	0.100	0.099	0.098	0.096	0.093	0.089	0.084	0.078	0.071	0.064	0.055	0.046	0.036	0.025	0.013	0.000
SUPERELEVATION ORDINATE	0.000	-0.013	-0.025	-0.036	-0.047	-0.056	-0.065	-0.072	-0.079	-0.085	-0.090	-0.094	-0.097	-0.099	-0.100	-0.101	-0.100	-0.099	-0.097	-0.094	-0.090	-0.085	-0.079	-0.072	-0.065	-0.056	-0.047	-0.036	-0.025	-0.013	0.000
REQUIRED CAMBER	0"	1 ⁵ / ₁₆ "	3"	4 ⁹ / ₁₆ "	6 ¹ / ₁₆ "	7 ¹ / ₂ "	8 ³ / ₄ "	9 ⁷ / ₈ "	10 ⁷ / ₈ "	11 ¹³ / ₁₆ "	12 ⁹ / ₁₆ "	13 ¹ / ₈ "	13 ⁵ / ₁₆ "	14 ³ / ₁₆ "	14 ¹ / ₄ "	14 ¹ / ₈ "	13 ⁷ / ₈ "	13 ¹ / ₂ "	13"	12 ³ / ₈ "	11 ⁵ / ₈ "	10 ³ / ₄ "	9 ¹ / ₁₆ "	8 ⁹ / ₁₆ "	7 ⁵ / ₁₆ "	5 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	2 ¹⁵ / ₁₆ "	1 ⁵ / ₁₆ "	0"	

GIRDER G5L

30TH POINTS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.037	0.073	0.108	0.141	0.172	0.199	0.225	0.248	0.267	0.284	0.299	0.310	0.318	0.322	0.324	0.322	0.318	0.310	0.299	0.284	0.267	0.248	0.225	0.199	0.172	0.141	0.108	0.073	0.037	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.057	0.144	0.227	0.305	0.377	0.442	0.501	0.554	0.600	0.639	0.671	0.696	0.713	0.723	0.725	0.720	0.707	0.687	0.661	0.627	0.588	0.541	0.489	0.430	0.365	0.295	0.219	0.139	0.055	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.007	0.013	0.020	0.026	0.032	0.037	0.042	0.046	0.050	0.053	0.056	0.058	0.059	0.060	0.060	0.060	0.059	0.058	0.056	0.053	0.050	0.046	0.042	0.037	0.032	0.026	0.020	0.013	0.007	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.101	0.231	0.354	0.472	0.580	0.678	0.768	0.848	0.917	0.977	1.025	1.063	1.090	1.105	1.109	1.102	1.084	1.054	1.015	0.965	0.905	0.835	0.755	0.666	0.568	0.462	0.347	0.225	0.099	0.000
VERTICAL CURVE ORDINATE	0.000	0.013	0.025	0.036	0.047	0.056	0.064	0.072	0.079	0.085	0.089	0.094	0.097	0.099	0.100	0.101	0.100	0.099	0.097	0.094	0.090	0.085	0.079	0.072	0.064	0.056	0.046	0.036	0.025	0.013	0.000
SUPERELEVATION ORDINATE	0.000	-0.013	-0.025	-0.036	-0.047	-0.056	-0.065	-0.072	-0.079	-0.085	-0.090	-0.094	-0.097	-0.099	-0.101	-0.101	-0.101	-0.099	-0.097	-0.094	-0.090	-0.085	-0.079	-0.072	-0.065	-0.056	-0.047	-0.036	-0.025	-0.013	0.000
REQUIRED CAMBER	0"	1 ³ / ₈ "	3 ¹ / ₁₆ "	4 ¹¹ / ₁₆ "	6 ¹ / ₄ "	7 ⁵ / ₈ "	8 ¹⁵ / ₁₆ "	10 ¹ / ₁₆ "	11 ¹ / ₈ "	12"	12 ¹³ / ₁₆ "	13 ⁷ / ₁₆ "	13 ¹⁵ / ₁₆ "	14 ¹ / ₄ "	14 ¹ / ₂ "	14 ¹ / ₂ "	14 ⁷ / ₁₆ "	14 ³ / ₁₆ "	13 ³ / ₁₆ "	13 ⁵ / ₁₆ "	12 ⁵ / ₈ "	11 ⁷ / ₈ "	10 ¹⁵ / ₁₆ "	9 ⁵ / ₁₆ "	8 ³ / ₄ "	7 ¹ / ₂ "	6 ¹ / ₈ "	4 ⁵ / ₈ "	3"	1 ⁵ / ₁₆ "	0"

GIRDER G6L

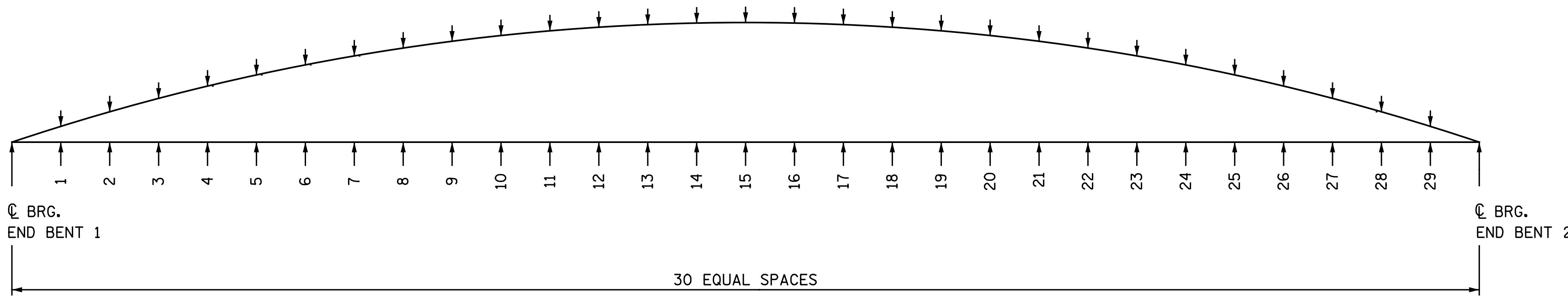
30TH POINTS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.035	0.069	0.101	0.132	0.161	0.187	0.211	0.232	0.251	0.267	0.280	0.291	0.298	0.303	0.304	0.303	0.298	0.291	0.280	0.267	0.251	0.232	0.211	0.187	0.161	0.132	0.101	0.069	0.035	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.057	0.143	0.226	0.304	0.375	0.440	0.500	0.552	0.598	0.637	0.669	0.694	0.711	0.721	0.723	0.717	0.704	0.685	0.658	0.625	0.586	0.539	0.487	0.428	0.364	0.294	0.218	0.138	0.055	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.010	0.019	0.029	0.037	0.045	0.053	0.060	0.066	0.071	0.076	0.080	0.083	0.085	0.086	0.087	0.086	0.085	0.083	0.080	0.076	0.071	0.066	0.060	0.053	0.045	0.037	0.029	0.019	0.010	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.102	0.231	0.355	0.473	0.581	0.680	0.770	0.851	0.921	0.980	1.029	1.067	1.094	1.110	1.114	1.106	1.088	1.058	1.018	0.968	0.908	0.838	0.758	0.668	0.570	0.464	0.348	0.226	0.099	0.000
VERTICAL CURVE ORDINATE	0.000	0.013	0.025	0.037	0.047	0.056	0.065	0.073	0.079	0.085	0.090	0.094	0.098	0.100	0.101	0.102	0.101	0.100	0.098	0.094	0.090	0.085	0.079	0.073	0.065	0.056	0.047	0.037	0.025	0.013	0.000
SUPERELEVATION ORDINATE	0.000	-0.013	-0.025	-0.037	-0.047	-0.056	-0.065	-0.073	-0.079	-0.085	-0.090	-0.094	-0.097	-0.100	-0.101	-0.101	-0.101	-0.100	-0.097	-0.094	-0.090	-0.085	-0.079	-0.073	-0.065	-0.056	-0.047	-0.037	-0.025	-0.013	0.000
REQUIRED CAMBER	0"	1 ³ / ₈ "	3 ¹ / ₁₆ "	4 ¹¹ / ₁₆ "	6 ¹ / ₄ "	7 ⁵ / ₈ "	8 ¹⁵ / ₁₆ "	10 ¹ / ₈ "	11 ³ / ₁₆ "	12 ¹ / ₁₆ "	12 ¹³ / ₁₆ "	13 ¹ / ₂ "	13 ¹⁵ / ₁₆ "	14 ⁵ / ₁₆ "	14 ¹ / ₂ "	14 ⁹ / ₁₆ "	14 ¹ / ₂ "	14 ¹ / ₄ "	13 ⁷ / ₈ "	13 ³ / ₈ "	12 ¹¹ / ₁₆ "	11 ¹⁵ / ₁₆ "	11"	9 ⁵ / ₁₆ "	8 ¹³ / ₁₆ "	7 ¹ / ₂ "	6 ¹ / ₈ "	4 ⁵ / ₈ "	3"	1 ³ / ₈ "	0"

* INCLUDES SLAB, BUILDUPS, AND STAY-IN-PLACE FORMS. DEFLECTIONS BASED ON SLAB POUR SEQUENCE SHOWN ON "BILL OF MATERIAL" SHEET.

NOTES:

- VALUES GIVEN ARE AT THIRTIETH POINTS BETWEEN CENTERLINE OF BEARINGS.
- DEFLECTIONS AND ORDINATES ARE IN FEET (DECIMAL FORM).
- REQUIRED CAMBER VALUES ARE IN INCHES (FRACTION FORM).
- UPWARD DEFLECTIONS ARE INDICATED WITH A "-" SIGN.

PROJECT NO. U-2524D
GUILFORD COUNTY
 STATION: 495+22.00 -LREV-
 SHEET 2 OF 2



SCHEMATIC CAMBER ORDINATES

DRAWN BY: M. D. MAYHEW DATE: 2-5-16
 CHECKED BY: B. J. BELL DATE: 2-5-16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE DEAD LOAD DEFLECTION AND CAMBER ORDINATES LEFT LANES		SHEET NO. S3-16	
			Michael Baker Engineering 8000 Regency Parkway, Suite 600 Cary, North Carolina 27518 NC License No.: F-1084		TOTAL SHEETS 35	
	5/17/2016		REVISIONS			
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2				4		

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