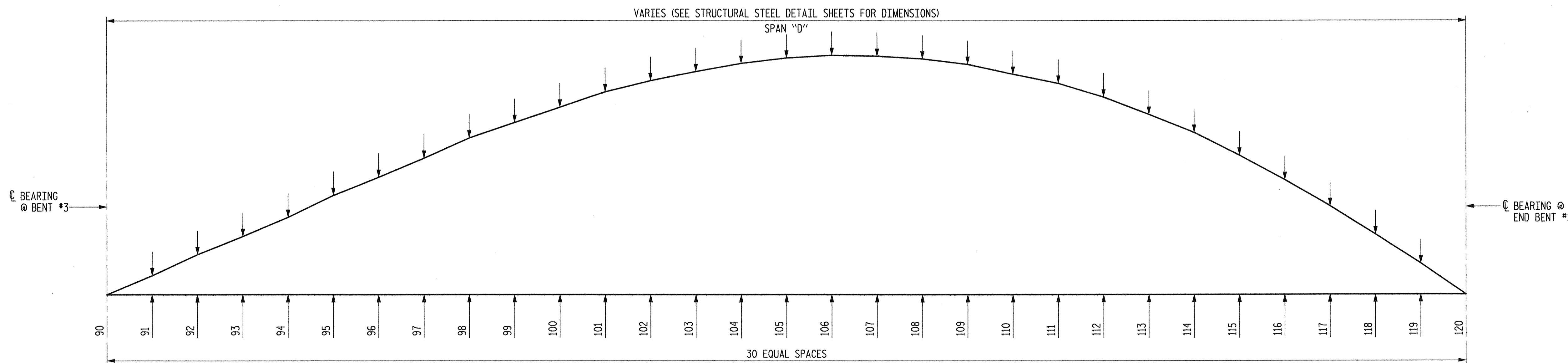


DEAD LOAD DEFLECTION AND CAMBER

GIRDER	THIRTIETH POINTS	SPAN "D"																														
		90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
1	DEFLECTION DUE TO WT. OF STEEL	0	.002	.003	.004	.006	.009	.011	.014	.016	.019	.021	.024	.026	.027	.029	.030	.031	.031	.031	.030	.029	.028	.026	.024	.022	.019	.015	.012	.008	.004	0
	DEFLECTION DUE TO WT. OF SLAB	0	.002	.007	.011	.017	.023	.030	.037	.046	.053	.060	.067	.073	.079	.083	.087	.089	.090	.090	.089	.086	.083	.078	.071	.064	.055	.045	.035	.024	.012	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.001	.001	.002	.003	.004	.005	.006	.007	.007	.009	.009	.010	.010	.011	.011	.011	.011	.010	.010	.010	.010	.009	.008	.007	.006	.004	.003	.002	0
	TOTAL DEAD LOAD DEFLECTION	0	.004	.011	.016	.025	.035	.045	.056	.068	.079	.088	.100	.108	.116	.122	.128	.131	.132	.132	.130	.125	.121	.114	.104	.094	.081	.066	.051	.035	.018	0
	CAMBER DISSIPATION	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
	VERTICAL CURVE ORDINATE	0	.017	.033	.048	.061	.074	.085	.095	.104	.111	.118	.123	.127	.130	.132	.132	.132	.130	.127	.123	.117	.111	.103	.094	.084	.072	.060	.046	.031	.016	0
	SUPERELEVATION ORDINATE	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
REQUIRED CAMBER	0	21	44	64	86	109	130	151	172	190	206	223	235	246	254	260	263	262	259	253	242	232	217	198	178	153	126	97	66	34	0	
2	DEFLECTION DUE TO WT. OF STEEL	0	.001	.002	.004	.006	.008	.010	.013	.016	.018	.020	.022	.024	.026	.028	.029	.029	.030	.029	.029	.028	.027	.025	.023	.021	.018	.015	.011	.008	.004	0
	DEFLECTION DUE TO WT. OF SLAB	0	.002	.006	.010	.015	.022	.028	.035	.044	.051	.058	.065	.070	.076	.080	.084	.086	.087	.087	.086	.084	.080	.075	.069	.062	.054	.044	.034	.023	.012	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.001	.001	.002	.003	.003	.005	.005	.006	.007	.008	.009	.009	.010	.010	.010	.011	.010	.010	.010	.010	.009	.009	.007	.006	.005	.004	.003	.002	0
	TOTAL DEAD LOAD DEFLECTION	0	.003	.009	.015	.023	.033	.041	.053	.065	.075	.085	.095	.103	.111	.118	.123	.125	.128	.126	.125	.122	.117	.109	.101	.090	.078	.064	.049	.034	.018	0
	CAMBER DISSIPATION	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
	VERTICAL CURVE ORDINATE	0	.017	.033	.048	.061	.074	.085	.095	.104	.111	.118	.123	.127	.130	.132	.132	.132	.130	.127	.123	.117	.111	.103	.094	.084	.072	.060	.046	.031	.016	0
	SUPERELEVATION ORDINATE	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
REQUIRED CAMBER	0	20	42	63	84	107	126	148	169	186	203	218	230	241	250	255	257	258	253	248	239	228	212	195	174	150	124	95	65	34	0	
3	DEFLECTION DUE TO WT. OF STEEL	0	.001	.002	.004	.005	.008	.010	.012	.015	.017	.019	.021	.023	.025	.026	.027	.028	.028	.028	.028	.027	.026	.024	.022	.020	.017	.014	.011	.007	.004	0
	DEFLECTION DUE TO WT. OF SLAB	0	.001	.005	.009	.014	.021	.027	.034	.042	.048	.055	.062	.068	.073	.077	.081	.083	.084	.084	.083	.081	.077	.073	.067	.060	.052	.043	.033	.023	.012	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.001	.001	.002	.002	.003	.004	.005	.006	.007	.007	.008	.009	.009	.010	.010	.010	.010	.010	.010	.009	.009	.008	.007	.006	.005	.004	.003	.001	0
	TOTAL DEAD LOAD DEFLECTION	0	.002	.008	.014	.021	.031	.040	.050	.062	.071	.081	.090	.099	.107	.112	.118	.121	.122	.122	.121	.118	.112	.106	.097	.087	.075	.062	.048	.033	.017	0
	CAMBER DISSIPATION	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
	VERTICAL CURVE ORDINATE	0	.017	.033	.048	.061	.074	.085	.095	.104	.111	.118	.123	.127	.130	.132	.132	.132	.130	.127	.123	.117	.111	.103	.094	.084	.072	.060	.046	.031	.016	0
	SUPERELEVATION ORDINATE	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
REQUIRED CAMBER	0	19	41	62	82	105	125	145	166	182	199	213	226	237	244	250	253	252	249	244	235	223	209	191	171	147	122	94	64	33	0	
4	DEFLECTION DUE TO WT. OF STEEL	0	.001	.002	.003	.005	.007	.009	.011	.014	.016	.018	.020	.022	.023	.025	.026	.026	.027	.027	.026	.026	.024	.023	.021	.019	.016	.013	.010	.007	.004	0
	DEFLECTION DUE TO WT. OF SLAB	0	.001	.005	.009	.013	.019	.025	.032	.039	.046	.053	.059	.065	.070	.074	.077	.080	.081	.081	.080	.078	.075	.070	.064	.058	.050	.041	.032	.022	.011	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.001	.001	.002	.002	.003	.004	.005	.006	.006	.007	.008	.009	.009	.009	.010	.010	.010	.010	.009	.009	.009	.007	.007	.006	.005	.004	.003	.001	0
	TOTAL DEAD LOAD DEFLECTION	0	.002	.008	.013	.020	.028	.037	.047	.058	.068	.077	.086	.095	.102	.108	.112	.116	.118	.118	.116	.113	.108	.102	.092	.084	.072	.059	.046	.032	.016	0
	CAMBER DISSIPATION	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
	VERTICAL CURVE ORDINATE	0	.017	.033	.048	.061	.074	.085	.095	.104	.111	.118	.123	.127	.130	.132	.132	.132	.130	.127	.123	.117	.111	.103	.094	.084	.072	.060	.046	.031	.016	0
	SUPERELEVATION ORDINATE	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	
REQUIRED CAMBER	0	19	41	61	81	102	122	142	162	179	195	209	222	232	240	244	248	248	245	239	230	219	205	186	168	144	119	92	63	32	0	



SCHMATIC OF CAMBER ORDINATES - SPAN "D"

FOR CAMBER VALUES AT THIRTIETH POINTS, SEE TABLES.

SLOPE FOR ZERO CAMBER LINE VARIES.

NOTES:

VALUES GIVEN IN TABLE ARE AT THIRTIETH POINTS BETWEEN Q BEARINGS.

DEFLECTION AND ORDINATE VALUES ARE GIVEN IN METERS (DECIMAL FORM).

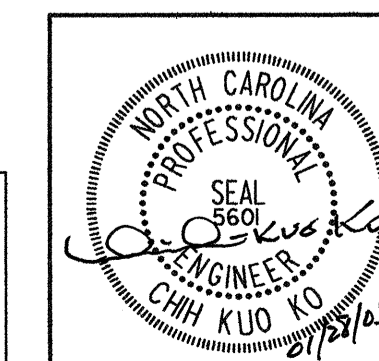
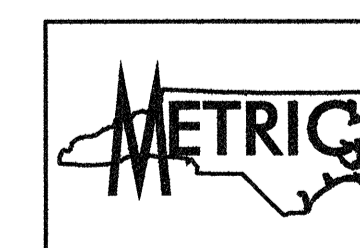
REQUIRED CAMBER VALUES GIVEN IN MILLIMETERS.

PROJECT NO. R-2552AA
 WAKE-JOHNSTON COUNTY
 STATION: 27+51.601 -I1Y1-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
 CAMBER AND DEAD LOAD DEFLECTIONS



Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 101 SCHAUH DR., SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

REVISIONS						SHEET NO. 5-57
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 429
2			4			

DWG. NO. 21