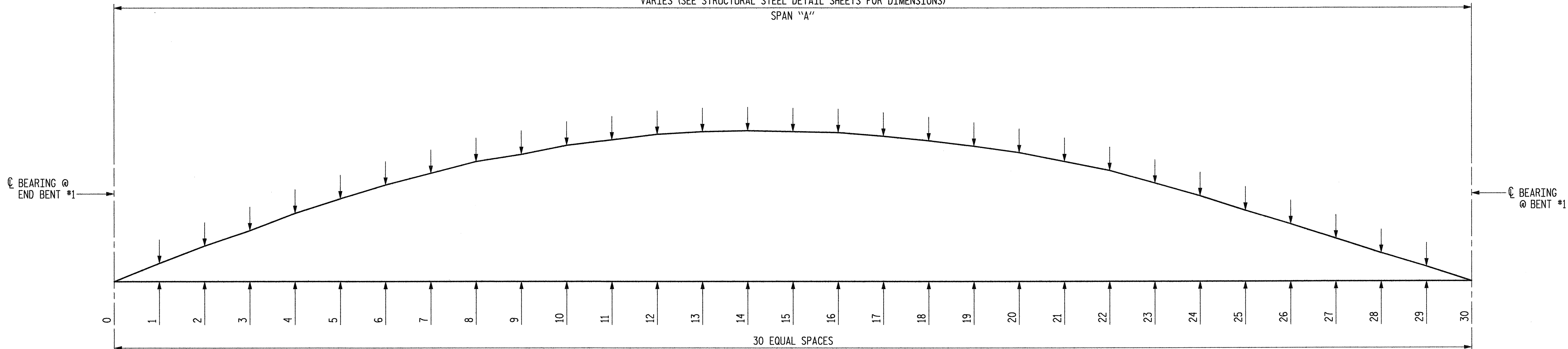


DEAD LOAD DEFLECTION AND CAMBER

GIRDER	THIRTIETH POINTS	SPAN "A"																														
		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
1	DEFLECTION DUE TO WT.OF STEEL	0	.004	.008	.011	.015	.018	.021	.023	.025	.027	.029	.030	.030	.031	.030	.030	.029	.028	.026	.024	.022	.020	.017	.015	.012	.010	.007	.005	.003	.001	0
	DEFLECTION DUE TO WT.OF SLAB	0	.012	.024	.035	.045	.055	.063	.071	.078	.084	.088	.091	.093	.094	.093	.091	.088	.084	.080	.074	.067	.061	.053	.045	.037	.030	.022	.016	.010	.005	0
	DEFLECTION DUE TO WT.OF RAIL	0	.002	.003	.004	.006	.007	.008	.009	.010	.010	.011	.011	.011	.011	.011	.011	.011	.010	.010	.009	.008	.007	.006	.006	.005	.003	.003	.002	.001	.001	0
	TOTAL DEAD LOAD DEFLECTION	0	.018	.035	.050	.066	.080	.092	.103	.113	.121	.128	.132	.134	.136	.134	.132	.128	.122	.116	.107	.097	.088	.076	.066	.054	.043	.032	.023	.014	.007	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	.000	0
	VERTICAL CURVE ORDINATE	0	.002	.004	.006	.009	.011	.013	.015	.017	.019	.021	.023	.026	.028	.030	.032	.034	.036	.038	.040	.042	.043	.043	.041	.039	.035	.030	.024	.017	.009	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	.000	0
	REQUIRED CAMBER	0	20	39	56	75	91	105	118	130	140	149	155	160	164	164	164	162	158	154	147	139	131	119	107	93	78	62	47	31	16	0
2	DEFLECTION DUE TO WT.OF STEEL	0	.005	.009	.014	.018	.021	.025	.028	.031	.033	.034	.036	.037	.037	.037	.036	.035	.033	.031	.029	.027	.024	.021	.018	.015	.012	.009	.006	.004	.001	0
	DEFLECTION DUE TO WT.OF SLAB	0	.015	.029	.042	.055	.066	.077	.086	.095	.101	.106	.110	.113	.113	.113	.111	.107	.102	.096	.090	.081	.073	.064	.054	.045	.036	.027	.019	.012	.006	0
	DEFLECTION DUE TO WT.OF RAIL	0	.002	.003	.005	.006	.008	.009	.010	.011	.012	.012	.013	.014	.014	.014	.013	.013	.012	.011	.011	.010	.009	.008	.006	.006	.005	.003	.002	.001	.001	0
	TOTAL DEAD LOAD DEFLECTION	0	.022	.041	.061	.079	.095	.111	.124	.137	.146	.152	.159	.164	.164	.160	.155	.147	.138	.130	.118	.106	.093	.078	.066	.053	.039	.027	.017	.008	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	.000	0
	VERTICAL CURVE ORDINATE	0	.003	.006	.009	.012	.015	.018	.021	.024	.027	.030	.033	.036	.039	.042	.045	.048	.051	.054	.057	.058	.056	.054	.050	.045	.038	.031	.022	.011	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	.000	0
	REQUIRED CAMBER	0	25	47	70	91	110	129	145	161	173	182	192	200	203	206	205	203	198	192	187	176	164	149	132	116	98	77	58	39	19	0
3	DEFLECTION DUE TO WT.OF STEEL	0	.006	.011	.016	.021	.025	.029	.033	.036	.039	.041	.042	.043	.043	.043	.042	.041	.039	.037	.034	.031	.027	.024	.020	.017	.013	.010	.007	.004	.001	0
	DEFLECTION DUE TO WT.OF SLAB	0	.018	.034	.050	.065	.079	.092	.103	.112	.120	.126	.130	.133	.134	.133	.130	.126	.119	.112	.104	.093	.083	.073	.061	.050	.040	.029	.020	.012	.006	0
	DEFLECTION DUE TO WT.OF RAIL	0	.002	.004	.006	.007	.009	.011	.012	.013	.014	.015	.015	.016	.016	.015	.015	.014	.013	.012	.011	.010	.009	.007	.006	.005	.003	.002	.002	.001	0	
	TOTAL DEAD LOAD DEFLECTION	0	.026	.049	.072	.093	.113	.132	.148	.161	.173	.182	.187	.192	.192	.187	.182	.172	.162	.150	.135	.120	.106	.088	.073	.058	.042	.029	.018	.008	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	.000	0
	VERTICAL CURVE ORDINATE	0	.004	.008	.012	.016	.020	.024	.028	.033	.037	.041	.045	.049	.053	.057	.061	.065	.069	.072	.074	.075	.073	.071	.067	.062	.055	.047	.037	.026	.014	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	.000	0
	REQUIRED CAMBER	0	30	57	84	109	133	156	176	194	210	223	232	241	246	249	248	247	241	234	224	210	193	177	155	135	113	89	66	44	22	0
4	DEFLECTION DUE TO WT.OF STEEL	0	.007	.013	.019	.024	.030	.034	.038	.042	.045	.047	.049	.050	.050	.049	.048	.046	.044	.041	.038	.034	.030	.026	.022	.018	.014	.011	.007	.005	.002	0
	DEFLECTION DUE TO WT.OF SLAB	0	.021	.040	.059	.076	.093	.107	.120	.131	.140	.147	.151	.154	.154	.152	.148	.143	.135	.126	.116	.104	.092	.080	.066	.054	.043	.031	.022	.013	.006	0
	DEFLECTION DUE TO WT.OF RAIL	0	.002	.005	.007	.009	.011	.012	.014	.015	.016	.017	.018	.018	.018	.018	.017	.016	.015	.014	.012	.011	.010	.008	.007	.005	.004	.003	.002	.001	0	
	TOTAL DEAD LOAD DEFLECTION	0	.030	.058	.085	.109	.134	.153	.172	.188	.201	.211	.218	.222	.222	.219	.214	.206	.195	.182	.168	.150	.133	.116	.096	.079	.062	.046	.032	.020	.009	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	.000	0
	VERTICAL CURVE ORDINATE	0	.005	.011	.016	.021	.026	.032	.037	.042	.048	.053	.058	.063	.069	.074	.079	.085	.089	.092	.093	.092	.090	.087	.081	.075	.066	.056	.045	.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	.000	0
	REQUIRED CAMBER	0	35	69	101	130	160	185	209	230	249	264	276	285	291	293	293	291	284	274	261	242	223	203	177	154	128	102	77	51	25	0

VARIES (SEE STRUCTURAL STEEL DETAIL SHEETS FOR DIMENSIONS)

SPAN "A"



SCHEMATIC OF CAMBER ORDINATES - SPAN "A"

FOR CAMBER VALUES AT THIRTIETH POINTS, SEE TABLES.

SLOPE FOR ZERO CAMBER LINE VARIES.

NOTES:

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

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

REQUIRED CAMBER VALUES GIVEN IN MILLIMETERS.

PROJECT NO. R-2552AA

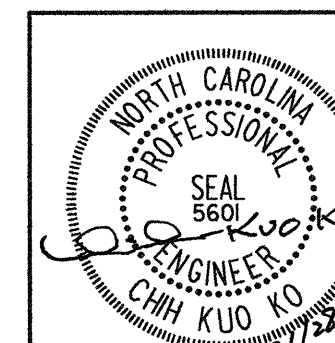
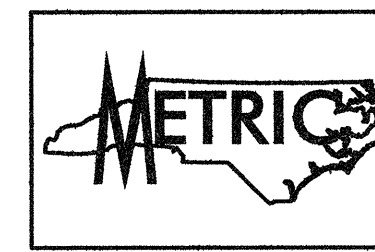
WAKE-JOHNSTON COUNTY

STATION: 27+51.601 -11Y1-

SHEET 1 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 SCHAU DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			5-54
2			4			TOTAL SHEETS 429

DWG. NO. 18