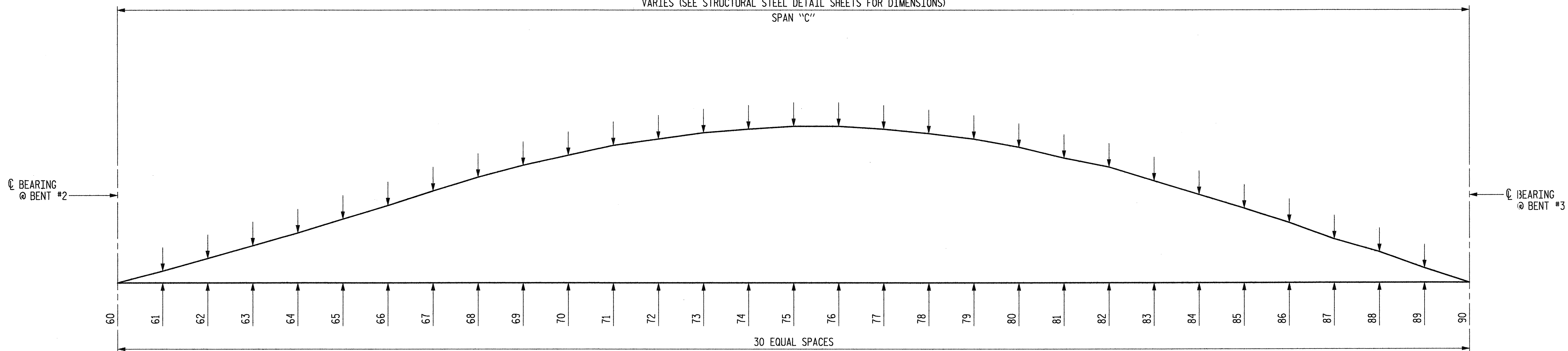


DEAD LOAD DEFLECTION AND CAMBER

GIRDER	THIRTIETH POINTS	SPAN "C"																														
		60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1	DEFLECTION DUE TO WT. OF STEEL	0	.002	.002	.003	.004	.006	.008	.010	.012	.014	.015	.017	.018	.019	.020	.020	.020	.020	.020	.019	.018	.016	.015	.013	.011	.009	.007	.005	.004	.001	0
	DEFLECTION DUE TO WT. OF SLAB	0	.001	.006	.010	.015	.021	.027	.034	.042	.048	.054	.059	.063	.067	.069	.071	.071	.070	.067	.064	.059	.054	.049	.042	.035	.029	.022	.015	.010	.005	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.000	.001	.001	.001	.002	.003	.003	.004	.004	.005	.005	.005	.005	.006	.006	.005	.005	.005	.005	.004	.004	.003	.003	.002	.002	.001	.001	.000	0
	TOTAL DEAD LOAD DEFLECTION	0	.003	.008	.014	.020	.028	.037	.047	.057	.066	.073	.081	.086	.091	.094	.097	.097	.095	.092	.088	.082	.074	.068	.058	.049	.040	.031	.021	.015	.006	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	.010	.019	.027	.035	.042	.048	.054	.059	.063	.067	.070	.072	.074	.075	.075	.075	.074	.072	.070	.067	.063	.059	.054	.048	.042	.035	.027	.019	.010	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	13	27	41	55	70	85	101	116	129	140	151	158	165	169	172	172	169	164	158	149	137	127	112	97	82	66	48	34	16	0	
2	DEFLECTION DUE TO WT. OF STEEL	0	.002	.002	.004	.005	.007	.009	.011	.013	.014	.016	.017	.019	.020	.020	.021	.021	.020	.020	.019	.018	.017	.015	.013	.011	.009	.007	.005	.003	.001	0
	DEFLECTION DUE TO WT. OF SLAB	0	.002	.008	.013	.018	.025	.032	.039	.047	.053	.059	.064	.069	.072	.074	.075	.075	.074	.071	.067	.062	.057	.051	.044	.037	.030	.022	.016	.010	.005	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.000	.001	.001	.002	.002	.003	.003	.004	.004	.005	.005	.005	.006	.006	.006	.005	.005	.005	.005	.004	.004	.003	.003	.002	.002	.001	.001	.000	0
	TOTAL DEAD LOAD DEFLECTION	0	.004	.010	.018	.024	.034	.043	.053	.063	.071	.079	.086	.093	.097	.100	.102	.102	.100	.096	.091	.085	.078	.070	.060	.051	.041	.031	.022	.014	.006	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	.010	.019	.027	.035	.042	.048	.054	.059	.063	.067	.070	.072	.074	.075	.075	.075	.074	.072	.070	.067	.063	.059	.054	.048	.042	.035	.027	.019	.010	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	14	29	45	59	76	91	107	122	134	146	156	165	171	175	177	177	174	168	161	152	141	129	114	99	83	66	49	33	16	0	
3	DEFLECTION DUE TO WT. OF STEEL	0	.002	.003	.004	.006	.008	.010	.011	.013	.015	.017	.018	.019	.020	.021	.021	.021	.021	.020	.019	.018	.017	.015	.013	.011	.009	.007	.005	.003	.001	0
	DEFLECTION DUE TO WT. OF SLAB	0	.003	.009	.015	.021	.028	.035	.042	.051	.057	.063	.068	.073	.076	.078	.078	.076	.073	.069	.064	.058	.052	.045	.038	.031	.023	.016	.010	.005	0	
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.000	.001	.001	.002	.003	.003	.004	.004	.005	.005	.006	.006	.006	.006	.006	.006	.005	.005	.005	.004	.004	.003	.003	.002	.002	.001	.001	.000	0
	TOTAL DEAD LOAD DEFLECTION	0	.005	.012	.020	.028	.038	.048	.056	.068	.076	.085	.091	.098	.102	.105	.105	.105	.103	.099	.093	.087	.079	.071	.061	.052	.042	.032	.022	.014	.006	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	.010	.019	.027	.035	.042	.048	.054	.059	.063	.067	.070	.072	.074	.075	.075	.075	.074	.072	.070	.067	.063	.059	.054	.048	.042	.035	.027	.019	.010	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	15	31	47	63	80	96	110	127	139	152	161	170	176	180	180	180	177	171	163	154	142	130	115	100	84	67	49	33	16	0	
4	DEFLECTION DUE TO WT. OF STEEL	0	.002	.003	.005	.006	.008	.010	.012	.014	.016	.017	.019	.020	.021	.021	.022	.021	.021	.020	.019	.018	.017	.015	.013	.011	.009	.007	.005	.003	.001	0
	DEFLECTION DUE TO WT. OF SLAB	0	.004	.011	.017	.023	.031	.038	.045	.053	.060	.066	.071	.075	.078	.080	.080	.079	.077	.074	.070	.064	.059	.052	.045	.038	.031	.023	.016	.010	.005	0
	DEFLECTION DUE TO WT. OF RAIL	0	.000	.001	.001	.002	.002	.003	.003	.004	.005	.005	.006	.006	.006	.006	.006	.006	.006	.006	.006	.005	.005	.004	.003	.003	.002	.002	.001	.001	.000	0
	TOTAL DEAD LOAD DEFLECTION	0	.006	.015	.023	.031	.041	.051	.060	.071	.081	.088	.096	.101	.105	.107	.108	.106	.104	.100	.095	.087	.081	.071	.061	.052	.042	.032	.022	.014	.006	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	.010	.019	.027	.035	.042	.048	.054	.059	.063	.067	.070	.072	.074	.075	.075	.075	.074	.072	.070	.067	.063	.059	.054	.048	.042	.035	.027	.019	.010	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	16	34	50	66	83	99	114	130	144	155	166	173	179	182	183	181	178	172	165	154	144	130	115	100	84	67	49	33	16	0	

VARIES (SEE STRUCTURAL STEEL DETAIL SHEETS FOR DIMENSIONS)
SPAN "C"



SCHMATIC OF CAMBER ORDINATES - SPAN "C"

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

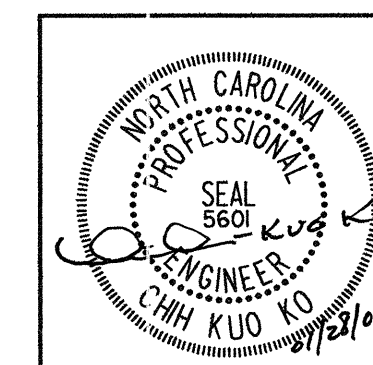
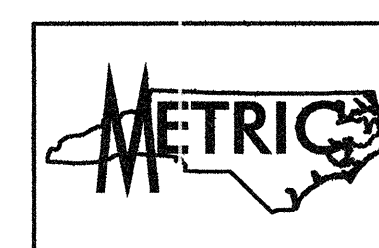
WAKE-JOHNSTON COUNTY

STATION: 28+31.359 -I1Y1-

SHEET 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
CAMBER AND DEAD LOAD DEFLECTIONS



Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
1011 SCHAU DR. SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			5-108
2			4			TOTAL SHEETS 429

DWG. NO. 25