

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 22 SHEETS
FAP 322	24BR-1	FAYETTE	57	27	
FED. ROAD DIST. NO. 7		BLANDED	FED. AID PROJECT		

Contract # 94770

☉ STRUCTURE & STAGED CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	228+02.00	0	480.69	480.69
☉ Brg. N. Abut.	228+03.25	0	480.68	480.68
A	228+13.25	0	480.64	480.66
B	228+23.25	0	480.61	480.62
C	228+33.25	0	480.57	480.57
☉ Pier	228+42.00	0	480.54	480.54
D	228+52.00	0	480.50	480.51
E	228+62.00	0	480.46	480.48
F	228+72.00	0	480.42	480.45
G	228+82.00	0	480.39	480.40
☉ Pier	228+92.00	0	480.35	480.35
H	229+02.00	0	480.31	480.32
I	229+12.00	0	480.27	480.29
J	229+22.00	0	480.24	480.25
☉ Brg. S. Abut.	229+30.75	0	480.20	480.20
Bk. S. Abut.	229+32.00	0	480.20	480.20

BEAM 1 & 6

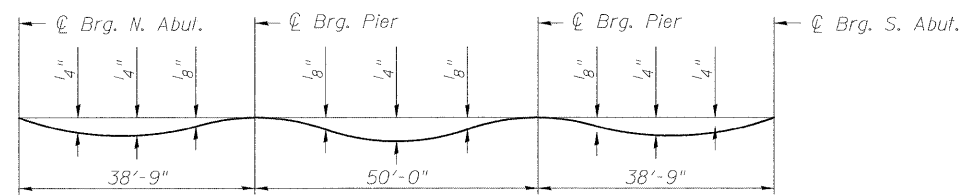
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	228+02.00	17.71'	480.38	480.38
☉ Brg. N. Abut.	228+03.25	17.71'	480.38	480.38
A	228+13.25	17.71'	480.34	480.35
B	228+23.25	17.71'	480.30	480.31
C	228+33.25	17.71'	480.26	480.27
☉ Pier	228+42.00	17.71'	480.23	480.23
D	228+52.00	17.71'	480.19	480.20
E	228+62.00	17.71'	480.16	480.18
F	228+72.00	17.71'	480.12	480.14
G	228+82.00	17.71'	480.08	480.09
☉ Pier	228+92.00	17.71'	480.04	480.04
H	229+02.00	17.71'	480.01	480.01
I	229+12.00	17.71'	479.97	479.98
J	229+22.00	17.71'	479.93	479.94
☉ Brg. S. Abut.	229+30.75	17.71'	479.90	479.90
Bk. S. Abut.	229+32.00	17.71'	479.89	479.89

BEAM 2 & 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	228+02.00	10.63'	480.52	480.52
☉ Brg. N. Abut.	228+03.25	10.63'	480.52	480.52
A	228+13.25	10.63'	480.48	480.49
B	228+23.25	10.63'	480.44	480.45
C	228+33.25	10.63'	480.40	480.41
☉ Pier	228+42.00	10.63'	480.37	480.37
D	228+52.00	10.63'	480.33	480.34
E	228+62.00	10.63'	480.30	480.32
F	228+72.00	10.63'	480.26	480.28
G	228+82.00	10.63'	480.22	480.23
☉ Pier	228+92.00	10.63'	480.18	480.18
H	229+02.00	10.63'	480.15	480.15
I	229+12.00	10.63'	480.11	480.12
J	229+22.00	10.63'	480.07	480.08
☉ Brg. S. Abut.	229+30.75	10.63'	480.04	480.04
Bk. S. Abut.	229+32.00	10.63'	480.03	480.03

BEAM 3 & 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	228+02.00	3.54'	480.63	480.63
☉ Brg. N. Abut.	228+03.25	3.54'	480.63	480.63
A	228+13.25	3.54'	480.59	480.60
B	228+23.25	3.54'	480.55	480.56
C	228+33.25	3.54'	480.51	480.52
☉ Pier	228+42.00	3.54'	480.48	480.48
D	228+52.00	3.54'	480.44	480.45
E	228+62.00	3.54'	480.41	480.43
F	228+72.00	3.54'	480.37	480.39
G	228+82.00	3.54'	480.33	480.34
☉ Pier	228+92.00	3.54'	480.29	480.29
H	229+02.00	3.54'	480.26	480.26
I	229+12.00	3.54'	480.22	480.23
J	229+22.00	3.54'	480.18	480.19
☉ Brg. S. Abut.	229+30.75	3.54'	480.15	480.15
Bk. S. Abut.	229+32.00	3.54'	480.14	480.14



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

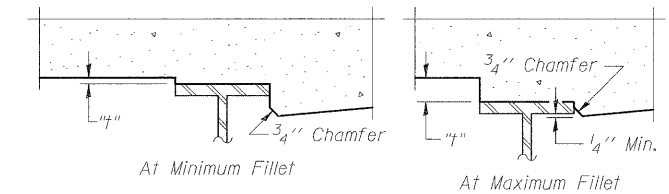
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

BENTON & ASSOCIATES, INC.

DESIGNED	MBH
CHECKED	NRF
DRAWN	MBH
CHECKED	NRF

E-S

11-1-06



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

TOP OF SLAB ELEVATIONS
US 51 / RICHLAND CREEK
F.A.P. RT. 322
FAYETTE COUNTY
SN. 026-0104