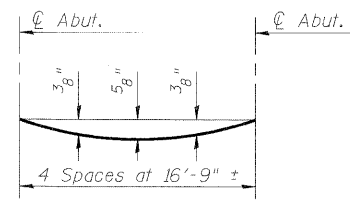


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	545	354
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

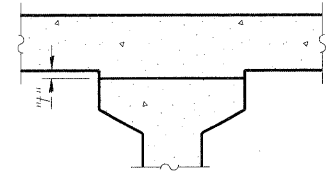
SHEET SS- 5
OF 22 SHEETS

Contract # 63074



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams).

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 below.



To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+28.40	-15.00	749.89	749.89
W. Abut	138+29.70	-15.00	749.88	749.88
A	138+39.77	-15.00	749.83	749.86
B	138+49.85	-15.00	749.78	749.82
C	138+59.96	-15.00	749.73	749.78
D	138+70.08	-15.00	749.67	749.72
E	138+80.23	-15.00	749.62	749.66
F	138+90.41	-15.00	749.57	749.58
E. Abut	138+97.52	-15.00	749.53	749.53
Bk. E. Abut	138+98.84	-15.00	749.53	749.53

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+42.12	-64.81	748.07	748.07
W. Abut	138+43.49	-64.83	748.07	748.07
A	138+54.01	-64.91	748.01	748.04
B	138+64.52	-64.91	747.96	748.00
C	138+75.04	-64.83	747.90	747.96
D	138+85.55	-64.67	747.86	747.90
E	138+96.06	-64.43	747.81	747.85
F	139+06.57	-64.11	747.77	747.78
E. Abut	139+13.89	-63.84	747.74	747.74
Bk. E. Abut	139+15.25	-63.79	747.74	747.74

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+35.07	-39.70	748.99	748.99
W. Abut	138+36.41	-39.73	748.98	748.98
A	138+46.72	-39.86	748.92	748.95
B	138+57.03	-39.92	748.87	748.91
C	138+67.34	-39.89	748.82	748.87
D	138+77.65	-39.79	748.77	748.82
E	138+87.96	-39.61	748.72	748.76
F	138+98.26	-39.36	748.68	748.69
E. Abut	139+05.44	-39.13	748.65	748.65
Bk. E. Abut	139+06.78	-39.09	748.64	748.64

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+39.74	-56.45	748.38	748.38
W. Abut	138+41.10	-56.47	748.37	748.37
A	138+51.54	-56.56	748.32	748.34
B	138+61.99	-56.58	748.26	748.30
C	138+72.44	-56.52	748.21	748.26
D	138+82.88	-56.38	748.16	748.21
E	138+93.32	-56.16	748.11	748.15
F	139+03.76	-55.87	748.07	748.08
E. Abut	139+11.04	-55.61	748.04	748.04
Bk. E. Abut	139+12.39	-55.56	748.04	748.04

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+32.77	-31.33	749.30	749.30
W. Abut	138+34.11	-31.35	749.29	749.29
A	138+44.35	-31.50	749.23	749.26
B	138+54.59	-31.58	749.17	749.22
C	138+64.84	-31.57	749.12	749.17
D	138+75.08	-31.49	749.07	749.12
E	138+85.32	-31.33	749.02	749.06
F	138+95.56	-31.10	748.98	748.99
E. Abut	139+02.70	-30.89	748.95	748.95
Bk. E. Abut	139+04.03	-30.84	748.95	748.95

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+37.39	-48.08	748.68	748.68
W. Abut	138+38.74	-48.10	748.68	748.68
A	138+49.11	-48.21	748.62	748.65
B	138+59.49	-48.25	748.57	748.61
C	138+69.87	-48.21	748.51	748.56
D	138+80.25	-48.09	748.46	748.51
E	138+90.62	-47.89	748.42	748.45
F	139+00.99	-47.61	748.37	748.39
E. Abut	139+08.22	-47.37	748.35	748.35
Bk. E. Abut	139+09.57	-47.33	748.34	748.34

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+30.51	-22.95	749.60	749.60
W. Abut	138+31.84	-22.97	749.59	749.59
A	138+42.01	-23.14	749.53	749.56
B	138+52.19	-23.23	749.48	749.52
C	138+62.37	-23.25	749.43	749.48
D	138+72.55	-23.18	749.38	749.42
E	138+82.72	-23.05	749.33	749.36
F	138+92.90	-22.83	749.28	749.30
E. Abut	138+99.99	-22.63	749.25	749.25
Bk. E. Abut	139+01.31	-22.59	749.25	749.25

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut	138+28.28	-14.56	749.90	749.90
W. Abut	138+29.59	-14.59	749.90	749.90
A	138+39.71	-14.78	749.84	749.86
B	138+49.82	-14.88	749.78	749.83
C	138+59.93	-14.92	749.73	749.78
D	138+70.05	-14.87	749.68	749.73
E	138+80.16	-14.75	749.63	749.67
F	138+90.27	-14.56	749.59	749.60
E. Abut	138+97.32	-14.37	749.56	749.56
Bk. E. Abut	138+98.63	-14.34	749.55	749.55

Note
1. For Deck Elevation Plan see sheet SS-4.
2. Stations and offsets taken from IL 25/Stearns Road

DESIGNED	AJK
CHECKED	HMA
DRAWN	AYR
CHECKED	HMA/DMC

benesch
alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450
Job # 3944

TOP OF SLAB ELEVATIONS
IL 25/STEARNS ROAD OVER THE
EAST BRANCH OF BREWSTER CREEK
F.A.P. 2503 - SEC. 06-00214-15-BR
KANE COUNTY
STATION 138+59.20
STRUCTURE NO. 045-2035

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