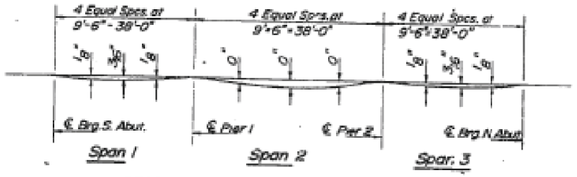
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	37BR-3	OGLE	40	18
F.A.P. RTE.	ILLINOIS	PROJECT		

Sheet 4
16 Sheets

* - F.A. RTE. 742 (IL. RTE. 2)



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab only).

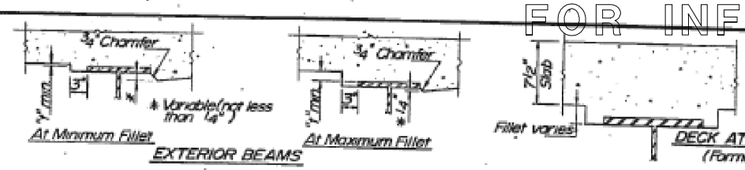
Note: The above deflections are not to used in the field if the engineer is working from the grade elevation adjusted for dead load deflection as shown below.

SCREED INFORMATION FOR BEAM OR GIRDER = 01

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194822.588	25.667	687.590	687.590
BRG SA	194825.398	25.667	687.590	687.590
A	194835.175	25.667	687.590	687.602
B	194844.950	25.667	687.590	687.604
C	194854.723	25.667	687.590	687.598
PIER1	194861.302	25.667	687.590	687.590
D	194871.672	25.667	687.590	687.590
E	194881.441	25.667	687.590	687.590
F	194891.207	25.667	687.590	687.588
PIER2	194898.926	25.667	687.590	687.590
G	194908.749	25.667	687.590	687.588
H	194918.519	25.667	687.590	687.606
I	194926.270	25.667	687.590	687.602
BRG NA	194936.076	25.667	687.590	687.592
BK NA	194938.567	25.667	687.590	687.590

SCREED INFORMATION FOR BEAM OR GIRDER = BND JT

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194824.429	22.000	687.370	687.370
BRG SA	194827.249	22.000	687.370	687.370
A	194837.057	22.000	687.370	687.382
B	194846.863	22.000	687.370	687.384
C	194856.665	22.000	687.370	687.376
PIER1	194863.871	22.000	687.370	687.370
D	194873.673	22.000	687.370	687.370
E	194883.474	22.000	687.370	687.371
F	194893.273	22.000	687.370	687.369
PIER2	194901.077	22.000	687.370	687.369
G	194910.874	22.000	687.370	687.370
H	194920.668	22.000	687.370	687.379
I	194930.461	22.000	687.370	687.386
BRG NA	194938.284	22.000	687.370	687.382
BK NA	194941.737	22.000	687.370	687.370



EXTERIOR BEAMS

METHOD OF DETERMING FILLET HEIGHTS "f"

After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at the station shown on Sheet 4. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 4, minus floor thickness equals the fillet heights above top flange of beams.

SCREED INFORMATION FOR BEAM OR GIRDER = 02

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194826.282	18.333	687.150	687.150
BRG SA	194829.111	18.333	687.150	687.150
A	194838.850	18.333	687.150	687.162
B	194848.788	18.333	687.150	687.164
C	194858.625	18.333	687.150	687.156
PIER1	194865.851	18.333	687.150	687.150
D	194875.655	18.333	687.150	687.150
E	194885.519	18.333	687.150	687.151
F	194895.351	18.333	687.150	687.149
PIER2	194903.181	18.333	687.150	687.150
G	194913.011	18.333	687.150	687.150
H	194923.839	18.333	687.150	687.159
I	194932.666	18.333	687.150	687.166
BRG NA	194940.526	18.333	687.150	687.162
BK NA	194943.981	18.333	687.150	687.150

SCREED INFORMATION FOR BEAM OR GIRDER = 03

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194830.015	11.000	686.710	686.710
BRG SA	194832.846	11.000	686.710	686.710
A	194842.758	11.000	686.710	686.722
B	194852.670	11.000	686.710	686.724
C	194862.572	11.000	686.710	686.716
PIER1	194869.648	11.000	686.710	686.710
D	194879.745	11.000	686.710	686.710
E	194889.645	11.000	686.710	686.711
F	194899.543	11.000	686.710	686.709
PIER2	194907.427	11.000	686.710	686.710
G	194917.324	11.000	686.710	686.719
H	194927.220	11.000	686.710	686.726
I	194937.115	11.000	686.710	686.723
BRG NA	194945.031	11.000	686.710	686.711
BK NA	194948.510	11.000	686.710	686.710

SCREED INFORMATION FOR BEAM OR GIRDER = 04

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194830.788	3.667	686.270	686.270
BRG SA	194836.663	3.667	686.270	686.270
A	194846.631	3.667	686.270	686.282
B	194856.598	3.667	686.270	686.284
C	194866.565	3.667	686.270	686.276
PIER1	194873.887	3.667	686.270	686.270
D	194883.853	3.667	686.270	686.270
E	194893.820	3.667	686.270	686.271
F	194903.785	3.667	686.270	686.268
PIER2	194911.724	3.667	686.270	686.270
G	194921.689	3.667	686.270	686.279
H	194931.654	3.667	686.270	686.286
I	194941.619	3.667	686.270	686.282
BRG NA	194949.501	3.667	686.270	686.271
BK NA	194953.094	3.667	686.270	686.270

SCREED INFORMATION FOR BEAM OR GIRDER = CSSEJT

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194834.823	1.500	686.140	686.140
BRG SA	194837.794	1.500	686.140	686.140
A	194847.781	1.500	686.140	686.162
B	194857.767	1.500	686.140	686.164
C	194867.754	1.500	686.140	686.156
PIER1	194875.080	1.500	686.140	686.140
D	194885.067	1.500	686.140	686.140
E	194895.053	1.500	686.140	686.141
F	194905.049	1.500	686.140	686.139
PIER2	194913.003	1.500	686.140	686.140
G	194922.989	1.500	686.140	686.149
H	194932.974	1.500	686.140	686.156
I	194942.960	1.500	686.140	686.152
BRG NA	194950.946	1.500	686.140	686.141
BK NA	194954.460	1.500	686.140	686.140

SCREED INFORMATION FOR BEAM OR GIRDER = CL

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194836.704	.000	686.050	686.050
BRG SA	194838.579	.000	686.050	686.050
A	194848.579	.000	686.050	686.062
B	194858.579	.000	686.050	686.064
C	194868.579	.000	686.050	686.056
PIER1	194875.929	.000	686.050	686.050
D	194885.929	.000	686.050	686.050
E	194895.926	.000	686.050	686.051
F	194905.926	.000	686.050	686.049
PIER2	194913.891	.000	686.050	686.050
G	194923.891	.000	686.050	686.059
H	194933.891	.000	686.050	686.066
I	194943.891	.000	686.050	686.062
BRG NA	194951.891	.000	686.050	686.051
BK NA	194955.406	.000	686.050	686.050

SCREED INFORMATION FOR BEAM OR GIRDER = 05

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194837.622	-3.667	685.830	685.830
BRG SA	194840.506	-3.667	685.830	685.830
A	194850.539	-3.667	685.830	685.842
B	194860.572	-3.667	685.830	685.844
C	194870.605	-3.667	685.830	685.836
PIER1	194877.977	-3.667	685.830	685.830
D	194888.010	-3.667	685.830	685.830
E	194898.045	-3.667	685.830	685.831
F	194908.079	-3.667	685.830	685.829
PIER2	194916.072	-3.667	685.830	685.830
G	194926.107	-3.667	685.830	685.839
H	194936.142	-3.667	685.830	685.846
I	194946.176	-3.667	685.830	685.842
BRG NA	194954.206	-3.667	685.830	685.831
BK NA	194957.735	-3.667	685.830	685.830

SCREED INFORMATION FOR BEAM OR GIRDER = 06

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194841.490	-11.000	685.390	685.390
BRG SA	194844.394	-11.000	685.390	685.390
A	194854.493	-11.000	685.390	685.390
B	194864.593	-11.000	685.390	685.402
C	194874.694	-11.000	685.390	685.404
PIER1	194882.115	-11.000	685.390	685.386
D	194892.217	-11.000	685.390	685.390
E	194902.320	-11.000	685.390	685.390
F	194912.424	-11.000	685.390	685.391
PIER2	194920.473	-11.000	685.390	685.389
G	194930.579	-11.000	685.390	685.390
H	194940.685	-11.000	685.390	685.399
I	194950.792	-11.000	685.390	685.406
BRG NA	194959.579	-11.000	685.390	685.402
BK NA	194962.434	-11.000	685.390	685.390

SCREED INFORMATION FOR BEAM OR GIRDER = 07

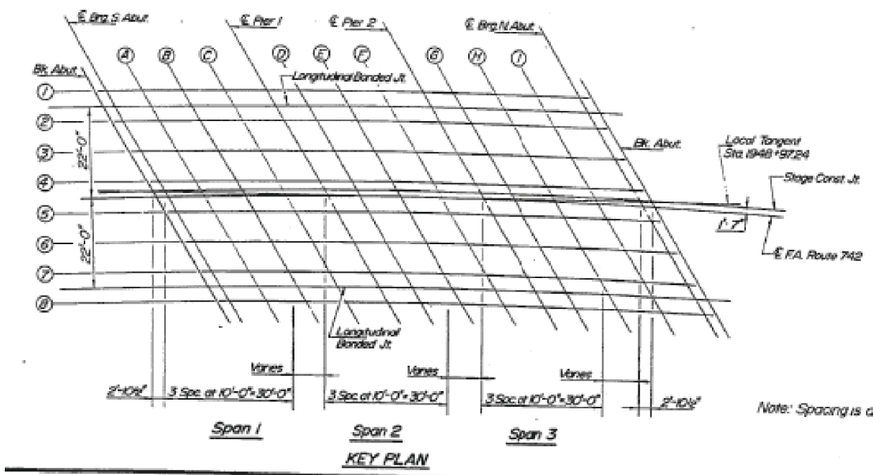
LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194845.405	-18.333	684.950	684.950
BRG SA	194848.327	-18.333	684.950	684.950
A	194858.484	-18.333	684.950	684.962
B	194868.642	-18.333	684.950	684.954
C	194878.832	-18.333	684.950	684.956
PIER1	194886.303	-18.333	684.950	684.950
D	194896.475	-18.333	684.950	684.950
E	194906.648	-18.333	684.950	684.951
F	194916.823	-18.333	684.950	684.949
PIER2	194924.928	-18.333	684.950	684.950
G	194935.106	-18.333	684.950	684.959
H	194945.284	-18.333	684.950	684.965
I	194955.465	-18.333	684.950	684.962
BRG NA	194963.610	-18.333	684.950	684.951
BK NA	194967.191	-18.333	684.950	684.950

SCREED INFORMATION FOR BEAM OR GIRDER = BND JT

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194847.379	-22.000	684.730	684.730
BRG SA	194850.312	-22.000	684.730	684.730
A	194860.513	-22.000	684.730	684.730
B	194870.715	-22.000	684.730	684.730
C	194880.919	-22.000	684.730	684.730
PIER1	194888.417	-22.000	684.730	684.730
D	194898.623	-22.000	684.730	684.730
E	194908.832	-22.000	684.730	684.730
F	194919.042	-22.000	684.730	684.730
PIER2	194927.176	-22.000	684.730	684.730
G	194937.380	-22.000	684.730	684.730
H	194947.605	-22.000	684.730	684.730
I	194957.823	-22.000	684.730	684.730
BRG NA	194966.986	-22.000	684.730	684.730
BK NA	194969.592	-22.000	684.730	684.730

SCREED INFORMATION FOR BEAM OR GIRDER = 08

LINE	STATION	OFFSET	THEORETICAL GRADE ELEVATION	ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BKSA	194849.369	-25.667	684.510	684.510
BRG SA	194852.308	-25.667	684.510	684.510
A	194862.543	-25.667	684.510	684.522
B	194872.780	-25.667	684.510	684.524
C	194883.019	-25.667	684.510	684.516
PIER1	194890.543	-25.667	684.510	684.510
D	194900.785	-25.667	684.510	684.510
E	194911.029	-25.667	684.510	684.511
F	194921.275	-25.667	684.510	684.509
PIER2	194929.435	-25.667	684.510	684.510
G	194939.689	-25.667	684.510	684.519
H	194949.941	-25.667	684.510	684.526
I	194960.196	-25.667	684.510	684.522
BRG NA	194968.401	-25.667	684.510	684.511
BK NA	194972.008	-25.667	684.510	684.510



KEY PLAN

Note: Spacing is along ℄ beam.

TOP OF SLAB ELEVATIONS
IL. ROUTE 2 OVER MUD CREEK
F.A. ROUTE 742
SECTION 37 BR-3
S.N. 071-0025
OGLE COUNTY

ALLEN HENDERSON & ASSOCIATES CONSULTING CIVIL AND STRUCTURAL ENGINEERS SPRINGFIELD, ILL. PHONE: (217) 544-8033

DESIGNED -	REVISED -	
DRAWN -	REVISED -	
CHECKED -	REVISED -	
DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
SN: 071-0025

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 2	02 BRIDGE PAINTING 2014-1	LEE / OGLE	25	21
		CONTRACT NO. 64J52		
	ILLINOIS			