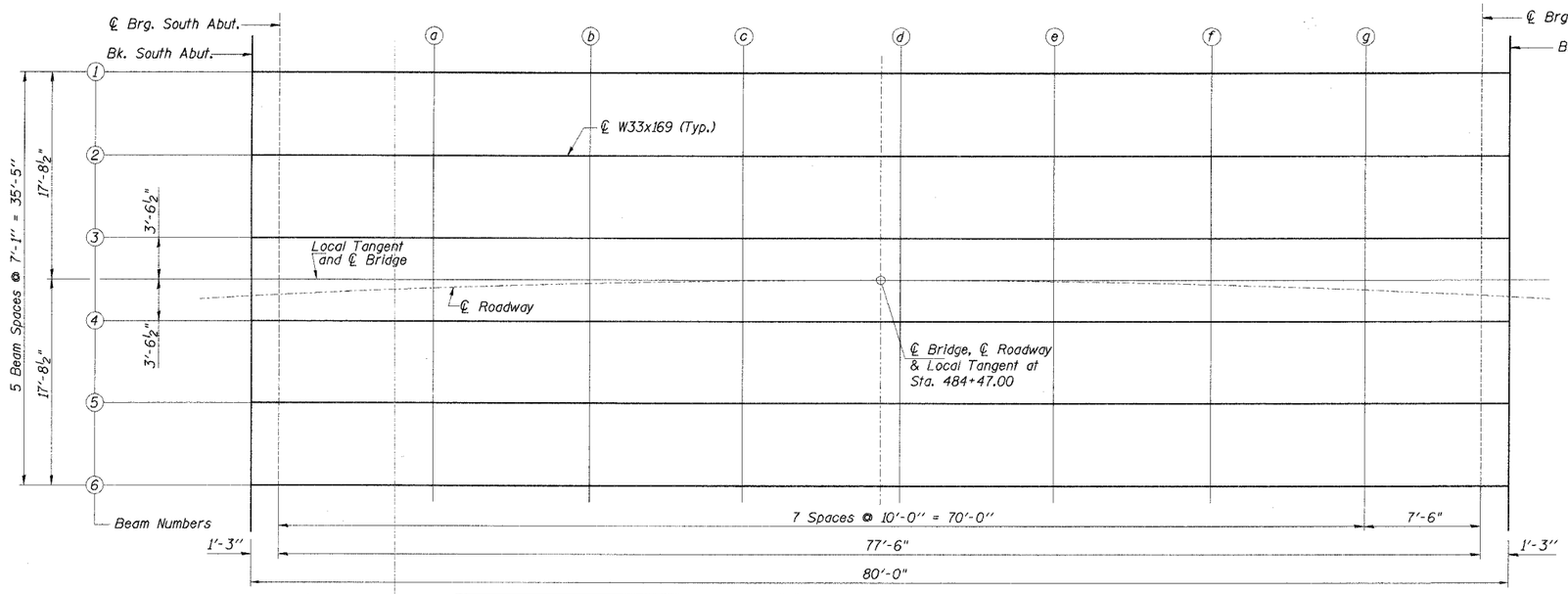
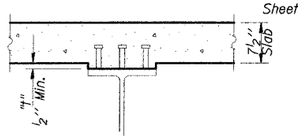
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8075	03-00167-04-FP	SANGAMON	109	67
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet 3 of 11

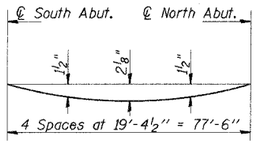


DIAGRAMMATIC PLAN



To determine "t": After all Stuctural Steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on the Diagrammatic Plan. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete and rail excludes weight of 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.

Offsets shown in tables below are from ℄ Bridge and Local Tangent

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	-17.708	572.478	572.478
℄ Brg. So. Abut.	484+08.25	-17.708	572.478	572.478
a	484+18.25	-17.708	572.478	572.548
b	484+28.25	-17.708	572.478	572.606
c	484+38.25	-17.708	572.478	572.642
d	484+48.25	-17.708	572.478	572.652
e	484+58.25	-17.708	572.478	572.633
f	484+68.25	-17.708	572.478	572.593
g	484+78.25	-17.708	572.478	572.531
℄ Brg. No. Abut.	484+85.75	-17.708	572.478	572.478
Bk. North Abut.	484+87.00	-17.708	572.478	572.478

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	-10.625	572.287	572.287
℄ Brg. So. Abut.	484+08.25	-10.625	572.287	572.287
a	484+18.25	-10.625	572.287	572.357
b	484+28.25	-10.625	572.287	572.414
c	484+38.25	-10.625	572.287	572.451
d	484+48.25	-10.625	572.287	572.461
e	484+58.25	-10.625	572.287	572.442
f	484+68.25	-10.625	572.287	572.402
g	484+78.25	-10.625	572.287	572.340
℄ Brg. No. Abut.	484+85.75	-10.625	572.287	572.287
Bk. North Abut.	484+87.00	-10.625	572.287	572.287

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	-3.542	572.096	572.096
℄ Brg. So. Abut.	484+08.25	-3.542	572.096	572.096
a	484+18.25	-3.542	572.096	572.165
b	484+28.25	-3.542	572.096	572.223
c	484+38.25	-3.542	572.096	572.260
d	484+48.25	-3.542	572.096	572.270
e	484+58.25	-3.542	572.096	572.251
f	484+68.25	-3.542	572.096	572.210
g	484+78.25	-3.542	572.096	572.149
℄ Brg. No. Abut.	484+85.75	-3.542	572.096	572.096
Bk. North Abut.	484+87.00	-3.542	572.096	572.096

℄ BRIDGE and LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	0.000	572.000	572.000
℄ Brg. So. Abut.	484+08.25	0.000	572.000	572.000
a	484+18.25	0.000	572.000	572.070
b	484+28.25	0.000	572.000	572.128
c	484+38.25	0.000	572.000	572.164
d	484+48.25	0.000	572.000	572.174
e	484+58.25	0.000	572.000	572.155
f	484+68.25	0.000	572.000	572.115
g	484+78.25	0.000	572.000	572.053
℄ Brg. No. Abut.	484+85.75	0.000	572.000	572.000
Bk. North Abut.	484+87.00	0.000	572.000	572.000

BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	3.542	571.904	571.904
℄ Brg. So. Abut.	484+08.25	3.542	571.904	571.904
a	484+18.25	3.542	571.904	571.974
b	484+28.25	3.542	571.904	572.032
c	484+38.25	3.542	571.904	572.068
d	484+48.25	3.542	571.904	572.079
e	484+58.25	3.542	571.904	572.059
f	484+68.25	3.542	571.904	572.019
g	484+78.25	3.542	571.904	571.958
℄ Brg. No. Abut.	484+85.75	3.542	571.904	571.904
Bk. North Abut.	484+87.00	3.542	571.904	571.904

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	10.625	571.713	571.713
℄ Brg. So. Abut.	484+08.25	10.625	571.713	571.713
a	484+18.25	10.625	571.713	571.783
b	484+28.25	10.625	571.713	571.841
c	484+38.25	10.625	571.713	571.877
d	484+48.25	10.625	571.713	571.887
e	484+58.25	10.625	571.713	571.868
f	484+68.25	10.625	571.713	571.828
g	484+78.25	10.625	571.713	571.766
℄ Brg. No. Abut.	484+85.75	10.625	571.713	571.713
Bk. North Abut.	484+87.00	10.625	571.713	571.713

BEAM #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. South Abut.	484+07.00	17.708	571.522	571.522
℄ Brg. So. Abut.	484+08.25	17.708	571.522	571.522
a	484+18.25	17.708	571.522	571.592
b	484+28.25	17.708	571.522	571.649
c	484+38.25	17.708	571.522	571.686
d	484+48.25	17.708	571.522	571.696
e	484+58.25	17.708	571.522	571.677
f	484+68.25	17.708	571.522	571.637
g	484+78.25	17.708	571.522	571.575
℄ Brg. No. Abut.	484+85.75	17.708	571.522	571.522
Bk. North Abut.	484+87.00	17.708	571.522	571.522

TOP of SLAB ELEVATIONS
CARDINAL ROAD over BLACK BRANCH CREEK
SECTION 03-00167-04-FP
SANGAMON COUNTY
STATION 484+47
STRUCTURE NO. 084-3640

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LAYOUT	M.N.M.	3/13/04
DRAWN	Rod	3/16/04
REVIEWED	G.B.R.	3/20/04