

GIRDER 1 REACTION TABLE									
	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	E. Abut.
R_{DC1}	(k) 35.8	164.2	154.2	148.7	147.1	145.7	146.3	143.2	45.2
R_{DC2}	(k) 6.5	28.0	27.7	27.4	27.0	26.8	27.0	26.1	8.5
R_{DW}	(k) 11.7	50.4	49.7	49.2	48.4	48.1	48.4	46.9	15.3
$R_{\frac{1}{2}} + IM$	(k) 73.1	175.1	175.1	169.8	167.5	166.3	166.8	159.2	93.4
R_{Total}	(k) 127.1	417.7	406.6	395.0	390.0	386.9	388.6	375.4	162.4

GIRDER 2 REACTION TABLE									
	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	E. Abut.
R_{DC1}	(k) 40.1	146.3	144.5	149.3	150.6	150.4	149.3	157.9	43.9
R_{DC2}	(k) 7.3	25.2	25.6	27.0	27.1	27.1	27.0	28.0	7.9
R_{DW}	(k) 13.1	45.2	45.9	48.5	48.7	48.7	48.5	50.3	14.3
$R_{\frac{1}{2}} + IM$	(k) 84.8	155.4	155.5	159.1	159.8	159.7	158.4	155.9	78.6
R_{Total}	(k) 145.2	372.0	371.4	383.8	386.2	385.8	383.3	392.1	144.6

GIRDER 3 REACTION TABLE									
	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	E. Abut.
R_{DC1}	(k) 42.7	163.3	153.8	147.6	151.2	151.6	150.4	154.8	42.8
R_{DC2}	(k) 7.7	27.7	27.0	26.8	27.1	27.0	27.0	27.5	7.8
R_{DW}	(k) 13.8	49.8	48.5	48.2	48.6	48.5	48.5	49.3	14.0
$R_{\frac{1}{2}} + IM$	(k) 86.6	155.5	152.7	149.5	149.2	148.7	148.0	148.0	79.7
R_{Total}	(k) 150.8	396.4	382.1	372.2	376.0	375.9	374.0	379.6	144.2

GIRDER 4 REACTION TABLE									
	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	E. Abut.
R_{DC1}	(k) 45.5	178.7	158.2	148.1	150.7	150.0	149.9	150.0	40.8
R_{DC2}	(k) 8.1	31.1	28.3	26.8	27.1	26.9	27.1	26.5	7.5
R_{DW}	(k) 14.5	55.9	50.8	48.2	48.7	48.4	48.6	47.5	13.4
$R_{\frac{1}{2}} + IM$	(k) 84.6	174.1	170.9	158.4	158.9	157.7	157.3	155.7	78.9
R_{Total}	(k) 152.6	439.7	408.2	381.5	385.4	383.0	382.9	379.7	140.6

GIRDER 5 REACTION TABLE									
	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	E. Abut.
R_{DC1}	(k) 48.2	141.4	145.9	146.0	147.7	146.8	147.0	158.6	38.4
R_{DC2}	(k) 9.0	25.2	26.3	26.9	27.1	26.9	27.0	28.6	7.1
R_{DW}	(k) 16.1	45.3	47.2	48.2	48.6	48.3	48.5	51.4	12.7
$R_{\frac{1}{2}} + IM$	(k) 103.3	162.0	173.2	169.2	168.7	168.1	166.7	172.1	73.5
R_{Total}	(k) 176.7	374.0	392.6	390.3	392.1	390.1	389.3	410.6	131.6

Note:
 $R_{\frac{1}{2}}$ includes the effects of centrifugal force and superelevation.

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FILE NAME =
 0456024_034_SteelDtls5.dgn

USER NAME = ekeaschell
 PLOT SCALE =
 PLOT DATE = 11/9/2011

DESIGNED - MFH
 CHECKED - MRB
 DRAWN - MFH
 CHECKED - MRB

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CITY OF ST. CHARLES

STEEL PLATE GIRDER REACTION TABLES
 STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S34 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	256
CONTRACT NO. 63650			ILLINOIS FED. AID PROJECT	

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