BEARING SCHEDULE
BRIDGE 7 - SERVICE LOADS

DL+SDL+MAX LL DL+SDL+MIN LL (30%* MAX.VLD) FIX (10%* MAX.VLD) FRE

PIER	BEAM	BEARING TYPE	DEAD LOAD (KIPS)	SDL (KIPS)	MAX LL+I (KIPS)	MIN LL+I (KIPS)	MAXIMUM VERTICAL LOAD (KIPS)	MINIMUM VERTICAL LOAD (KIPS)	HORIZONTAL CAPACITY (KIPS)
6	1	FREE	165.46	45.02	104.35	-25.87	315	185	32
	2	FREE	139.79	36.97	79.20	-12.06	256	165	26
	3	GUIDED	110.98	29.85	72.49	-5.16	214	136	65
	4	FREE	79.78	21.28	60.50	-23.20	162	78	17
7	1	GUIDED	387.34	98.95	148.64	-4.12	635	483	191
	2	GUIDED	604.86	153.45	207.51	0.00	966	759	290
	3	FIXED	450.81	112.28	148.77	0.00	712	564	214
	4	GUIDED	493.29	122.71	190.37	-22.58	807	594	243
8 BK	1	FREE	168.25	45.35	105.07	-26.22	319	188	32
	2	FREE	141.42	37.06	84.42	-12.47	263	167	27
	3	GUIDED	111.68	29.86	78.65	-5.31	221	137	67
	4	FREE	78.54	20.93	60.35	-23.79	160	76	16
8 AH	1	FREE	102.29	29.19	90.39	-30.18	222	102	23
	2	FREE	92.94	25.50	81.04	-15.67	200	103	20
	3	GUIDED	81.75	22.82	79.83	-8.45	185	97	56
	4	FREE	67.44	19.39	60.88	-19.35	148	68	15
9	1	FREE	296.33	84.30	138.35	-13.02	519	368	52
	2	FREE	386.85	107.91	176.21	-26.10	671	469	68
	3	GUIDED	313.29	85.71	134.24	-12.33	534	387	161
	4	FREE	342.95	96.18	166.71	-30.94	606	409	61
10	1	GUIDED	332.32	91.13	145.20	-7.78	569	416	171
	2	GUIDED	488.62	131.36	195.76	-14.26	816	606	245
	3	FIXED	379.14	99.66	143.24	-6.75	623	473	187
	4	GUIDED	424.56	113.38	188.25	-30.26	727	508	219
11	1	FREE	145.89	41.17	100.13	-26.02	288	162	29
	2	FREE	124.35	33.58	81.16	-12.20	240	146	24
	3	GUIDED	100.80	27.91	77.21	-6.33	206	123	62
	4	FREE	72.64	20.35	59.48	-22.75	153	71	16

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 7 UNIT1
Girder System : Analysis Output : Reactions - Girder 1

GIRDER 1
= BEAM 4

Girder 1 Service Vertical Reactions - k

BRIDGE 7
SPANS 6 & 7

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
PIER 6 1 1	79.78	21.28	60.50	-23.20	0.00	0.00
Steel	28.67					
Concrete	51.11					

Global x concurrent LL+I rot. 0.0073 0.0006 deg
Global y concurrent LL+I rot. 0.0214 0.0010 deg

Max LL+I Contribution by Lane

1	2
54.97	5.54

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 61.16

Concurrent at gdr 3 - 60.52

Concurrent at gdr 4 - 37.86

PIER 7 2 27	493.29	122.71	190.37	-22.58	0.00	0.00
Steel	197.11					
Concrete	296.18					

Global x concurrent LL+I rot. 0.0000 -0.0016 deg
Global y concurrent LL+I rot. 0.0126 -0.0127 deg

Max LL+I Contribution by Lane

1	2
154.51	35.86

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 128.79

Concurrent at gdr 3 - 122.50

Concurrent at gdr 4 - 35.76

PIER 8 3 75	78.54	20.93	60.35	-23.79	0.00	0.00
Steel	28.27					
Concrete	50.27					

Global x concurrent LL+I rot. 0.0072 0.0006 deg
Global y concurrent LL+I rot. 0.0050 -0.0247 deg

Max LL+I Contribution by Lane

1	2
54.94	5.41

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 2 - 61.07

Concurrent at gdr 3 - 60.34

Concurrent at gdr 4 - 38.38

Truck Loading

1	1	57.20	-3.83
2	27	78.95	0.00
3	75	56.91	-4.00

Lane Loading

1	1	60.50	-3.61
2	27	190.37	0.00
3	75	60.35	-3.78

Fatigue Truck

1	1	40.30	-2.56
2	27	48.41	0.00
3	75	40.26	-3.08

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	1	-0.05	0.14	-0.02	0.04	(-0.01 to	0.02)	(-0.01 to	0.06)
		Concurrent live vertical reaction				1.00	27.73	1.00	27.73
2	27	0.01	0.00	0.01	0.00	(0.00 to	0.00)	(-0.04 to	0.04)
		Concurrent live vertical reaction				68.57	2.75	69.38	68.23
3	75	-0.05	-0.14	-0.02	-0.04	(-0.01 to	0.02)	(-0.06 to	0.01)
		Concurrent live vertical reaction				1.07	27.50	27.50	1.08

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors		LL+I+SDWK Range flex	
1	1	-0.09	0.12	-0.03	0.04	(-0.01 to	0.02)	(-0.03 to	0.05)
2	27	0.01	0.00	0.01	0.00	(0.00 to	0.00)	(-0.04 to	0.04)
3	75	-0.05	-0.14	-0.02	-0.04	(-0.01 to	0.02)	(-0.06 to	0.01)

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 7 UNIT1
Girder System : Analysis Output : Reactions - Girder 2 BM 3

Girder 2 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min

PIER Governing

6

1 2	110.98	29.85	72.49	-5.16	0.00	0.00
Steel	39.74					
Concrete	71.24					

Global x concurrent LL+I rot. 0.0092 -0.0028 deg
Global y concurrent LL+I rot. 0.0274 -0.0082 deg

Max LL+I Contribution by Lane

1	2
41.85	30.64

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 36.75

Concurrent at gdr 3 - 53.93

Concurrent at gdr 4 - 12.07

7

2 39	450.81	112.28	148.77	0.00	0.00	0.00
Steel	178.88					
Concrete	271.93					

Global x concurrent LL+I rot. 0.0000 -0.0004 deg
Global y concurrent LL+I rot. 0.0152 -0.0153 deg

Max LL+I Contribution by Lane

1	2
76.94	71.83

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 165.28

Concurrent at gdr 3 - 133.76

Concurrent at gdr 4 - 39.22

8 BK

3 87	111.68	29.86	78.65	-5.31	0.00	0.00
Steel	40.39					
Concrete	71.29					

Global x concurrent LL+I rot. 0.0081 -0.0028 deg
Global y concurrent LL+I rot. -0.0109 -0.0225 deg

Max LL+I Contribution by Lane

1	2
47.95	30.70

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 28.54

Concurrent at gdr 3 - 51.07

Concurrent at gdr 4 - 12.39

Truck Loading

1	2	72.49	-3.52
2	39	94.39	0.00
3	87	78.65	-3.63

Lane Loading

1	2	70.44	-5.11
2	39	148.77	0.00
3	87	70.58	-5.27

Fatigue Truck

1	2	30.91	-2.71
2	39	43.45	0.00
3	87	35.76	-2.80

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		x-axis	y-axis	x-axis	y-axis	x-axis		y-axis	
1	2	-0.07	0.20	-0.02	0.06	(-0.01 to	0.02)	(-0.02 to	0.07)
		Concurrent live vertical reaction				-1.95	26.99	-1.95	26.99
2	39	0.01	0.00	0.00	0.00	(0.00 to	0.00)	(-0.04 to	0.04)
		Concurrent live vertical reaction				60.00	9.35	34.79	33.99
3	87	-0.07	-0.20	-0.02	-0.06	(-0.01 to	0.02)	(-0.06 to	0.02)
		Concurrent live vertical reaction				-2.02	27.10	27.10	-2.02

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		tors	flex	tors	flex	tors		flex	
1	2	-0.13	0.17	-0.04	0.05	(-0.01 to	0.02)	(-0.04 to	0.05)
2	39	0.01	0.00	0.00	0.00	(0.00 to	0.00)	(-0.04 to	0.04)
3	87	-0.07	-0.20	-0.02	-0.06	(-0.01 to	0.02)	(-0.06 to	0.02)

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 7 UNIT1
Girder System : Analysis Output : Reactions - Girder 3 BM 2

Girder 3 Service Vertical Reactions - k

PIBZ

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
6 1 3	139.79	36.97	79.20	-12.06	0.00	0.00
Steel	50.24					
Concrete	89.55					

Global x concurrent LL+I rot. 0.0138 -0.0068 deg
Global y concurrent LL+I rot. 0.0405 -0.0197 deg

Max LL+I Contribution by Lane

1	2
35.23	43.97

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 16.51

Concurrent at gdr 2 - 50.70

Concurrent at gdr 4 - 90.88

7 2 51	604.86	153.45	207.51	0.00	0.00	0.00
Steel	237.61					
Concrete	367.25					

Global x concurrent LL+I rot. 0.0000 -0.0005 deg
Global y concurrent LL+I rot. 0.0299 -0.0301 deg

Max LL+I Contribution by Lane

1	2
83.49	124.02

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 50.60

Concurrent at gdr 2 - 133.90

Concurrent at gdr 4 - 122.82

8 3 99	141.42	37.06	84.42	-12.47	0.00	0.00
Steel	51.57					
Concrete	89.85					

Global x concurrent LL+I rot. 0.0146 -0.0068 deg
Global y concurrent LL+I rot. -0.0019 -0.0401 deg

Max LL+I Contribution by Lane

1	2
40.15	44.27

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 9.76

Concurrent at gdr 2 - 45.96

Concurrent at gdr 4 - 72.87

Truck Loading

1	3	74.44	-8.25
2	51	95.32	0.00
3	99	79.95	-8.56

Lane Loading

1	3	79.20	-11.68
2	51	207.51	0.00
3	99	79.64	-12.08

Fatigue Truck

1	3	31.79	-6.37
2	51	36.64	0.00
3	99	30.26	-6.61

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	3	-0.09	0.26	-0.03	0.08	(-0.02 to	0.04)	(-0.06 to	0.11)
		Concurrent live vertical reaction				-4.40	31.34	-4.40	31.34
2	51	0.01	0.00	0.00	0.00	(0.00 to	0.00)	(-0.09 to	0.09)
		Concurrent live vertical reaction				62.09	40.52	59.77	59.57
3	99	-0.09	-0.26	-0.03	-0.08	(-0.02 to	0.04)	(-0.11 to	0.06)
		Concurrent live vertical reaction				-4.56	31.68	31.68	-4.56

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors		LL+I+SDWK Range flex	
1	3	-0.09	0.26	-0.03	0.08	(-0.02 to	0.04)	(-0.06 to	0.11)
2	51	0.01	0.00	0.00	0.00	(0.00 to	0.00)	(-0.08 to	0.09)
3	99	-0.16	-0.21	-0.05	-0.07	(-0.01 to	0.04)	(-0.09 to	0.09)

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 7 UNIT1
Girder System : Analysis Output : Reactions - ~~Girder~~ 4 BEAM 1

Girder 4 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
PIER 6 1 4	165.46	45.02	104.35	-25.87	0.00	0.00
Steel	59.88					
Concrete	105.58					

Global x concurrent LL+I rot. 0.0218 -0.0107 deg
Global y concurrent LL+I rot. 0.0619 -0.0305 deg

Max LL+I Contribution by Lane

1	2
28.50	75.86

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 17.71

Concurrent at gdr 2 - 48.44

Concurrent at gdr 3 - 70.52

7 2 52	387.34	98.95	148.64	-4.12	0.00	0.00
Steel	157.52					
Concrete	229.82					

Global x concurrent LL+I rot. 0.0000 -0.0023 deg
Global y concurrent LL+I rot. 0.0459 -0.0461 deg

Max LL+I Contribution by Lane

1	2
28.40	120.24

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 51.27

Concurrent at gdr 2 - 132.25

Concurrent at gdr 3 - 204.41

8 3 100	168.25	45.35	105.07	-26.22	0.00	0.00
Steel	61.94					
Concrete	106.31					

Global x concurrent LL+I rot. 0.0217 -0.0108 deg
Global y concurrent LL+I rot. 0.0305 -0.0613 deg

Max LL+I Contribution by Lane

1	2
28.82	76.25

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 17.89

Concurrent at gdr 2 - 49.01

Concurrent at gdr 3 - 71.11

Truck Loading

1	4	87.38	-18.37
2	52	87.49	0.00
3	100	92.65	-18.67

Lane Loading

1	4	104.35	-25.80
2	52	148.64	0.00
3	100	105.07	-26.18

Fatigue Truck

1	4	49.75	-14.18
2	52	55.72	0.00
3	100	52.66	-14.40

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		x-axis	y-axis	x-axis	y-axis	x-axis		y-axis	
1	4	-0.11	0.32	-0.03	0.10	(-0.03 to	0.06)	(-0.09 to	0.18)
		Concurrent live vertical reaction				-9.63	54.72	-9.63	54.72
2	52	0.02	0.00	0.01	0.00	(-0.01 to	0.00)	(-0.13 to	0.13)
		Concurrent live vertical reaction				40.70	0.00	40.27	41.02
3	100	-0.11	-0.32	-0.03	-0.10	(-0.03 to	0.06)	(-0.17 to	0.09)
		Concurrent live vertical reaction				-9.79	55.15	55.15	-9.79

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		tors	flex	tors	flex	tors		flex	
1	4	-0.20	0.27	-0.06	0.09	(-0.05 to	0.05)	(-0.14 to	0.14)
2	52	0.02	0.00	0.01	0.00	(-0.01 to	0.00)	(-0.13 to	0.13)
3	100	-0.20	-0.27	-0.06	-0.08	(-0.01 to	0.07)	(-0.14 to	0.14)

I-75/I-595 NORTHWEST CORRIDOR BRIDGE 7 UNIT 2
Girder System : Analysis Output : Reactions - Girder 1

GIRDER 1
= BEAM 4

Girder 1 Service Vertical Reactions - k

PIER

BRIDGE 7
SPANS 8-10

	Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing							
8	1 1	67.44	19.39	60.88	-19.35	0.00	0.00
	Steel	21.07					
	Concrete	46.37					

Global x concurrent LL+I rot. 0.0092 -0.0031 deg
Global y concurrent LL+I rot. 0.0185 -0.0062 deg

Max LL+I Contribution by Lane

1	2
54.83	6.04

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 55.63

Concurrent at gdr 3 - 44.45

Concurrent at gdr 4 - 24.70

9	2 21	342.95	96.18	166.71	-30.94	0.00	0.00
	Steel	109.92					
	Concrete	233.03					

Global x concurrent LL+I rot. 0.0017 -0.0038 deg
Global y concurrent LL+I rot. 0.0152 -0.0125 deg

Max LL+I Contribution by Lane

1	2
135.52	31.20

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 116.70

Concurrent at gdr 3 - 107.62

Concurrent at gdr 4 - 33.06

10	3 65	424.56	113.38	188.25	-30.26	0.00	0.00
	Steel	146.66					
	Concrete	277.90					

Global x concurrent LL+I rot. 0.0007 -0.0036 deg
Global y concurrent LL+I rot. 0.0141 -0.0150 deg

Max LL+I Contribution by Lane

1	2
151.91	36.34

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 2 - 124.66

Concurrent at gdr 3 - 116.45

Concurrent at gdr 4 - 34.42

11

4	113	72.64	20.35	59.48	-22.75	0.00	0.00
	Steel	23.64					
	Concrete	49.00					

Global x concurrent LL+I rot. 0.0109 0.0007 deg
Global y concurrent LL+I rot. 0.0059 -0.0233 deg

Max LL+I Contribution by Lane

1	2
53.66	5.82

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 2 - 58.98

Concurrent at gdr 3 - 57.20

Concurrent at gdr 4 - 35.04

Truck Loading

1	1	60.21	-4.58
2	21	79.45	-9.68
3	65	80.30	-8.66
4	113	57.96	-3.77

Lane Loading

1	1	56.97	-6.29
2	21	166.71	-13.12
3	65	188.25	-10.21
4	113	59.48	-4.50

Fatigue Truck

1	1	39.59	-3.51
2	21	48.39	-7.40
3	65	48.54	-6.51
4	113	39.73	-2.90

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	1	-0.04	0.09	-0.01	0.02	(-0.01 to	0.03)	(-0.02 to	0.05)
	Concurrent live vertical reaction					-1.76	35.33	-1.76	35.33
2	21	0.01	0.03	0.00	0.01	(-0.01 to	0.00)	(-0.04 to	0.04)
	Concurrent live vertical reaction					59.37	67.89	59.37	68.20

3	65	0.01	0.00	0.01	0.00	(-0.01 to 0.00)	(-0.04 to 0.04)
	Concurrent live vertical reaction					63.45	66.99	69.66	63.45
4	113	-0.07	-0.14	-0.02	-0.04	(-0.01 to 0.03)	(-0.06 to 0.02)
	Concurrent live vertical reaction					-0.02	29.88	29.88	-0.02

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors	LL+I+SDWK Range flex
1	1	-0.08	0.06	-0.02	0.02	(-0.02 to 0.02)	(-0.04 to 0.04)
2	21	0.01	0.03	0.00	0.01	(-0.01 to 0.00)	(-0.04 to 0.04)
3	65	0.01	0.00	0.01	0.00	(-0.01 to 0.00)	(-0.04 to 0.04)
4	113	-0.07	-0.14	-0.02	-0.04	(-0.01 to 0.03)	(-0.06 to 0.02)

I-75/I-595 NORTHWEST CORRIDOR BRIDGE 7 UNIT 2
Girder System : Analysis Output : Reactions - Girder 2 BEAM 3

Girder 2 Service Vertical Reactions - k

PIER	Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing							
8	1 2	81.75	22.82	79.83	-8.45	0.00	0.00
	Steel	25.40					
	Concrete	56.35					

Global x concurrent LL+I rot. 0.0092 -0.0037 deg
Global y concurrent LL+I rot. 0.0187 -0.0075 deg

Max LL+I Contribution by Lane

1	2
48.38	31.45

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 31.84

Concurrent at gdr 3 - 52.22

Concurrent at gdr 4 - 7.47

9	2 30	313.29	85.71	134.24	-12.33	0.00	0.00
	Steel	98.96					
	Concrete	214.33					

Global x concurrent LL+I rot. 0.0030 -0.0029 deg
Global y concurrent LL+I rot. 0.0154 -0.0128 deg

Max LL+I Contribution by Lane

1	2
70.43	63.80

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 144.49

Concurrent at gdr 3 - 116.95

Concurrent at gdr 4 - 35.37

10	3 78	379.14	99.66	143.24	-6.75	0.00	0.00
	Steel	130.35					
	Concrete	248.79					

Global x concurrent LL+I rot. 0.0023 -0.0026 deg
Global y concurrent LL+I rot. 0.0157 -0.0162 deg

Max LL+I Contribution by Lane

```
        1         2
      75.15     68.09

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 -     163.96

     Concurrent at gdr  3 -     127.15

     Concurrent at gdr  4 -      37.35

  4  124    100.80     27.91     77.21     -6.33    0.00     0.00
     Steel     32.82
     Concrete  67.98

 Global x concurrent LL+I rot.   0.0133   -0.0041 deg
 Global y concurrent LL+I rot.  -0.0224   -0.0221 deg

    Max LL+I Contribution by Lane
        1         2
      46.58     30.63

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 -      31.88

     Concurrent at gdr  3 -      53.09

     Concurrent at gdr  4 -      11.52


Truck Loading

   1    2                        79.83     -5.64
   2   30                        93.09     -7.31
   3   78                        93.52     -4.57
   4  124                        77.21     -4.25

Lane Loading

   1    2                        64.92     -8.32
   2   30                       134.24     -9.38
   3   78                       143.24     -5.05
   4  124                        68.01     -6.28

Fatigue Truck

   1    2                        34.04     -4.35
   2   30                        42.38     -5.61
   3   78                        42.90     -3.46
   4  124                        34.46     -3.25


                    Support Rotations - Degrees

          About global axes used in Girder Geometry table

 Supp/Node   Noncomp Dead    Superimp Dead          LL+I+SDWK Range
            x-axis  y-axis  x-axis  y-axis       x-axis          y-axis

   1   2    -0.06    0.11   -0.01    0.03  (-0.01 to  0.02) (-0.02 to  0.05)
         Concurrent live vertical reaction  -3.14    33.41   -3.14    33.41

   2  30     0.00    0.03    0.00    0.01  (-0.01 to  0.01) (-0.04 to  0.04)
         Concurrent live vertical reaction  44.04    37.64   37.19    37.64
```

3	78	0.01	0.02	0.00	0.00	(-0.01 to	0.01)	(-0.05 to	0.04)
	Concurrent live vertical reaction					34.76	34.74	37.78	34.76
4	124	-0.10	-0.20	-0.03	-0.06	(-0.01 to	0.03)	(-0.06 to	0.02)
	Concurrent live vertical reaction					-2.38	28.00	28.00	-2.38

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		tors	flex	tors	flex	tors		flex	
1	2	-0.10	0.08	-0.03	0.02	(-0.02 to	0.02)	(-0.04 to	0.04)
2	30	0.00	0.03	0.00	0.01	(-0.01 to	0.01)	(-0.04 to	0.04)
3	78	0.01	0.02	0.00	0.00	(-0.01 to	0.01)	(-0.05 to	0.04)
4	124	-0.10	-0.20	-0.03	-0.06	(-0.01 to	0.03)	(-0.06 to	0.02)

I-75/I-595 NORTHWEST CORRIDOR BRIDGE 7 UNIT 2
Girder System : Analysis Output : Reactions - Girder 3 BEAM 2

Girder 3 Service Vertical Reactions - k

PFR	Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing							
8	1 3	92.94	25.50	81.04	-15.67	0.00	0.00
	Steel	28.97					
	Concrete	63.98					

Global x concurrent LL+I rot. 0.0123 -0.0076 deg
Global y concurrent LL+I rot. 0.0247 -0.0152 deg

Max LL+I Contribution by Lane

1	2
40.74	40.31

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - -0.20

Concurrent at gdr 2 - 40.89

Concurrent at gdr 4 - 50.61

9	2 39	386.85	107.91	176.21	-26.10	0.00	0.00
	Steel	121.65					
	Concrete	265.20					

Global x concurrent LL+I rot. 0.0054 -0.0045 deg
Global y concurrent LL+I rot. 0.0268 -0.0206 deg

Max LL+I Contribution by Lane

1	2
72.35	103.86

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 43.92

Concurrent at gdr 2 - 117.78

Concurrent at gdr 4 - 114.25

10	3 91	488.62	131.36	195.76	-14.26	0.00	0.00
	Steel	166.35					
	Concrete	322.27					

Global x concurrent LL+I rot. 0.0041 -0.0046 deg
Global y concurrent LL+I rot. 0.0285 -0.0293 deg

Max LL+I Contribution by Lane

```
        1         2
      79.39    116.37

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 -      50.57

     Concurrent at gdr  2 -     128.13

     Concurrent at gdr  4 -     120.06

  4  135    124.35     33.58     81.16    -12.20    0.00     0.00
     Steel     40.73
     Concrete  83.62

 Global x concurrent LL+I rot.   0.0197   -0.0091 deg
 Global y concurrent LL+I rot.  -0.0027   -0.0367 deg

    Max LL+I Contribution by Lane
        1         2
      39.30     41.86

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 -       9.28

     Concurrent at gdr  2 -      46.55

     Concurrent at gdr  4 -      69.76


Truck Loading

   1    3                        81.04    -10.40
   2   39                        93.86    -18.96
   3   91                        94.57    -11.99
   4  135                        78.02     -8.14

Lane Loading

   1    3                        71.47    -15.14
   2   39                       176.21    -24.76
   3   91                       195.76    -13.48
   4  135                        75.42    -11.86

Fatigue Truck

   1    3                        28.81     -7.95
   2   39                        35.73    -14.55
   3   91                        36.32     -9.10
   4  135                        29.17     -6.25

                    Support Rotations - Degrees

          About global axes used in Girder Geometry table

 Supp/Node   Noncomp Dead    Superimp Dead          LL+I+SDWK Range
            x-axis  y-axis  x-axis  y-axis       x-axis          y-axis

   1   3    -0.07    0.13   -0.02    0.04  (-0.02 to  0.04) (-0.04 to  0.07)
        Concurrent live vertical reaction  -5.62    32.65   -5.62    32.65

   2  39     0.00    0.03    0.00    0.01  (-0.01 to  0.02) (-0.06 to  0.08)
        Concurrent live vertical reaction  51.48    58.23   51.48    59.41
```

3	91	0.01	0.04	0.00	0.01	(-0.01 to	0.01)	(-0.08 to	0.08)
		Concurrent live vertical reaction				59.30	53.20	53.20	59.10
4	135	-0.13	-0.26	-0.04	-0.08	(-0.03 to	0.05)	(-0.10 to	0.05)
		Concurrent live vertical reaction				-4.40	30.29	30.29	-4.40

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		tors	flex	tors	flex	tors		flex	
1	3	-0.07	0.13	-0.02	0.04	(-0.02 to	0.04)	(-0.04 to	0.07)
2	39	0.00	0.03	0.00	0.01	(-0.01 to	0.02)	(-0.06 to	0.08)
3	91	0.01	0.04	0.00	0.01	(-0.01 to	0.01)	(-0.08 to	0.08)
4	135	-0.13	-0.26	-0.04	-0.08	(-0.03 to	0.05)	(-0.10 to	0.05)

I-75/I-595 NORTHWEST CORRIDOR BRIDGE 7 UNIT 2
Girder System : Analysis Output : Reactions - Girder 4

BEAM 1

Girder 4 Service Vertical Reactions - k

PIER	Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing							
8	1 4	102.29	29.19	90.39	-30.18	0.00	0.00
	Steel	32.19					
	Concrete	70.09					

Global x concurrent LL+I rot. 0.0194 -0.0120 deg
Global y concurrent LL+I rot. 0.0376 -0.0234 deg

Max LL+I Contribution by Lane

1	2
21.46	68.93

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 6.32

Concurrent at gdr 2 - 39.86

Concurrent at gdr 3 - 50.79

9	2 40	296.33	84.30	138.35	-13.02	0.00	0.00
	Steel	95.51					
	Concrete	200.82					

Global x concurrent LL+I rot. 0.0064 -0.0078 deg
Global y concurrent LL+I rot. 0.0408 -0.0310 deg

Max LL+I Contribution by Lane

1	2
25.89	112.46

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 45.33

Concurrent at gdr 2 - 115.53

Concurrent at gdr 3 - 171.78

10	3 92	332.32	91.13	145.20	-7.78	0.00	0.00
	Steel	117.64					
	Concrete	214.69					

Global x concurrent LL+I rot. 0.0048 -0.0084 deg
Global y concurrent LL+I rot. 0.0430 -0.0444 deg

Max LL+I Contribution by Lane

1	2
27.34	117.86

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 51.95

Concurrent at gdr 2 - 126.20

Concurrent at gdr 3 - 191.50

11 4 136 145.89 41.17 100.13 -26.02 0.00 0.00
Steel 48.26
Concrete 97.63

Global x concurrent LL+I rot. 0.0285 -0.0142 deg
Global y concurrent LL+I rot. 0.0275 -0.0553 deg

Max LL+I Contribution by Lane

1	2
26.82	73.31

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 17.61

Concurrent at gdr 2 - 48.83

Concurrent at gdr 3 - 67.35

Truck Loading

1	4	87.52	-20.50
2	40	87.56	-6.39
3	92	89.20	-2.59
4	136	90.43	-17.92

Lane Loading

1	4	88.11	-29.62
2	40	138.35	-8.46
3	92	145.20	-2.95
4	136	100.13	-25.84

Fatigue Truck

1	4	50.52	-15.70
2	40	55.60	-4.91
3	92	56.01	-1.97
4	136	51.64	-13.77

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	4	-0.08	0.15	-0.02	0.04	(-0.03 to	0.06)	(-0.07 to	0.11)
		Concurrent live vertical reaction				-10.84	48.65	-10.84	48.65
2	40	0.01	0.04	0.00	0.01	(-0.02 to	0.02)	(-0.09 to	0.12)
		Concurrent live vertical reaction				50.44	43.25	50.44	43.25

3	92	0.03	0.05	0.01	0.01	(-0.02 to	0.01)	(-0.13 to	0.12)
		Concurrent live vertical reaction				48.39	32.80	32.80	48.39
4	136	-0.16	-0.33	-0.05	-0.09	(-0.04 to	0.08)	(-0.16 to	0.08)
		Concurrent live vertical reaction				-9.48	58.87	58.87	-9.48

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead		Superimp Dead		LL+I+SDWK Range			
		tors	flex	tors	flex	tors		flex	
1	4	-0.14	0.10	-0.04	0.03	(-0.05 to	0.03)	(-0.11 to	0.07)
2	40	0.01	0.04	0.00	0.01	(-0.02 to	0.02)	(-0.09 to	0.12)
3	92	0.03	0.05	0.01	0.01	(-0.02 to	0.01)	(-0.13 to	0.12)
4	136	-0.16	-0.33	-0.05	-0.09	(-0.04 to	0.08)	(-0.16 to	0.08)