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GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

68.17' CURB-TO-CURB; 9 BEAMS; 150.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
71.420	3.625	3.625	35.710	9	72.170	5	3	4.000	6

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.726	7.996	7.996	7.996	7.996	7.996	7.996	7.996	7.996											

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
11.000	24.710	24.710		

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	0.7377	53.243
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	1.5114	109.076
3	1.2264	88.507
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	1.5114	109.076
3	1.7377	125.413
4	1.2496	90.185
5	0.2390	17.248
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 4 4 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD
1	1.2623		91.097
2	1.5114		109.076
3	1.7377		125.413
4	1.5104		109.004
5	1.4886		107.434
6	0.4896		35.336
7	0.0000		0.000
8	0.0000		0.000
9	0.0000		0.000

LIVE LOAD CASE # 5 5 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD
1	1.2623		91.097
2	1.5114		109.076
3	1.7377		125.413
4	1.5104		109.004
5	1.4987		108.165
6	1.7392		125.521
7	0.7402		53.424
8	0.0000		0.000
9	0.0000		0.000

LIVE LOAD CASE # 6 1 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD
1	0.0000		0.000
2	0.0000		0.000
3	0.0000		0.000
4	0.0000		0.000
5	0.0000		0.000
6	0.0000		0.000
7	0.0000		0.000
8	0.7377		53.243
9	1.2623		91.097

LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD
1	0.0000		0.000
2	0.0000		0.000
3	0.0000		0.000
4	0.0000		0.000
5	0.0000		0.000
6	0.0000		0.000
7	1.2264		88.507
8	1.5114		109.076
9	1.2623		91.097

LIVE LOAD CASE # 8 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.2390	17.248
6	1.2496	90.185
7	1.7377	125.413
8	1.5114	109.076
9	1.2623	91.097

LIVE LOAD CASE # 9 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.4896	35.336
5	1.4886	107.434
6	1.5104	109.004
7	1.7377	125.413
8	1.5114	109.076
9	1.2623	91.097

LIVE LOAD CASE # 10 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.7402	53.423
4	1.7392	125.521
5	1.4987	108.165
6	1.5104	109.004
7	1.7377	125.413
8	1.5114	109.076
9	1.2623	91.097

LIVE LOAD CASE # 11 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.3752	27.077
5	1.2496	90.185
6	0.3752	27.077
7	0.0000	0.000
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.6258	45.165
4	1.6248	117.263
5	1.3742	99.175
6	0.3752	27.077
7	0.0000	0.000
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.6258	45.165
4	1.6248	117.263
5	1.4987	108.165
6	1.6248	117.263
7	0.6258	45.165
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 14 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	1.0025	72.351
3	1.6233	117.154
4	1.6248	117.263
5	1.4987	108.165
6	1.6248	117.263
7	0.6258	45.165
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 15 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	1.0025	72.351
3	1.6233	117.154
4	1.6248	117.263
5	1.4987	108.165
6	1.6248	117.263
7	1.6233	117.154
8	1.0025	72.351
9	0.0000	0.000

LIVE LOAD CASE # 16 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0005	0.036
4	1.2496	90.185
5	1.4997	108.237
6	1.2496	90.185
7	0.0005	0.036
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 17 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.2511	18.124
3	1.2501	90.222
4	1.7489	126.216
5	1.4997	108.237
6	1.2496	90.185
7	0.0005	0.036
8	0.0000	0.000
9	0.0000	0.000

LIVE LOAD CASE # 18 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.2511	18.124
3	1.2501	90.222
4	1.7489	126.216
5	1.4997	108.237
6	1.7489	126.216
7	1.2501	90.222
8	0.2511	18.124
9	0.0000	0.000

LIVE LOAD CASE # 19 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.5018	36.211
2	1.5008	108.309
3	1.4987	108.165
4	1.7489	126.216
5	1.4997	108.237
6	1.7489	126.216
7	1.2501	90.222
8	0.2511	18.124
9	0.0000	0.000

LIVE LOAD CASE # 20 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	0.7377	53.243
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.7377	53.243
9	1.2623	91.097

LIVE LOAD CASE # 21 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	1.5114	109.076
3	1.2264	88.507
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.7377	53.243
9	1.2623	91.097

LIVE LOAD CASE # 22 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	1.5114	109.076
3	1.2264	88.507
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	1.2264	88.507
8	1.5114	109.076
9	1.2623	91.097

LIVE LOAD CASE # 23 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2623	91.097
2	1.5114	109.076
3	1.7377	125.413
4	1.2496	90.185
5	0.2390	17.248
6	0.0000	0.000
7	1.2264	88.507
8	1.5114	109.076
9	1.2623	91.097

68.17' CURB-TO-CURB; 9 BEAMS; 150.00' AVERAGE SPAN

BRIDGE WIDTH 71.420	X1 3.625	X2 3.625	CENTER LINE DISTANCE 35.710			# OF BEAMS 9	REACTION FORCE 72.170	MAXIMUM # OF TRUCKS 5	# OF COLUMNS 3	COLUMN WIDTH 4.000	SKEW ANGLE 6										
D1 3.726	D2 7.996	D3 7.996	D4 7.996	D5 7.996	D6 7.996	D7 7.996	D8 7.996	D9 7.996	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20		
XCOL1 11.000	XCOL2 24.710	XCOL3 24.710	XCOL4	XCOL5																	
		NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10									
LL CASE 1	1	1	91.097	53.243	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									
LL CASE 2	2	2	91.097	109.076	88.507	0.000	0.000	0.000	0.000	0.000	0.000	0.000									
LL CASE 3	3	3	91.097	109.076	125.413	90.185	17.248	0.000	0.000	0.000	0.000	0.000									
LL CASE 4	4	4	91.097	109.076	125.413	109.004	107.434	35.336	0.000	0.000	0.000	0.000									
LL CASE 5	5	5	91.097	109.076	125.413	109.004	108.165	125.521	53.424	0.000	0.000	0.000									
LL CASE 6	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	53.243	91.097	0.000									
LL CASE 7	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	88.507	109.076	91.097	0.000									
LL CASE 8	3	0.000	0.000	0.000	0.000	0.000	17.248	90.185	125.413	109.076	91.097	0.000									
LL CASE 9	4	0.000	0.000	0.000	35.336	107.434	109.004	125.413	109.076	91.097	0.000	0.000									
LL CASE 10	5	0.000	0.000	53.423	125.521	108.165	109.004	125.413	109.076	91.097	0.000	0.000									
LL CASE 11	1	0.000	0.000	0.000	27.077	90.185	27.077	0.000	0.000	0.000	0.000	0.000									
LL CASE 12	2	0.000	0.000	45.165	117.263	99.175	27.077	0.000	0.000	0.000	0.000	0.000									
LL CASE 13	3	0.000	0.000	45.165	117.263	108.165	117.263	45.165	0.000	0.000	0.000	0.000									
LL CASE 14	4	0.000	72.351	117.154	117.263	108.165	117.263	45.165	0.000	0.000	0.000	0.000									
LL CASE 15	5	0.000	72.351	117.154	117.263	108.165	117.263	117.154	72.351	0.000	0.000	0.000									
LL CASE 16	2	0.000	0.000	0.036	90.185	108.237	90.185	0.036	0.000	0.000	0.000	0.000									
LL CASE 17	3	0.000	18.124	90.222	126.216	108.237	90.185	0.036	0.000	0.000	0.000	0.000									
LL CASE 18	4	0.000	18.124	90.222	126.216	108.237	126.216	90.222	18.124	0.000	0.000	0.000									
LL CASE 19	5	36.211	108.309	108.165	126.216	108.237	126.216	90.222	18.124	0.000	0.000	0.000									
LL CASE 20	2	91.097	53.243	0.000	0.000	0.000	0.000	0.000	53.243	91.097	0.000	0.000									
LL CASE 21	3	91.097	109.076	88.507	0.000	0.000	0.000	0.000	53.243	91.097	0.000	0.000									
LL CASE 22	4	91.097	109.076	88.507	0.000	0.000	0.000	88.507	109.076	91.097	0.000	0.000									
LL CASE 23	5	91.097	109.076	125.413	90.185	17.248	0.000	88.507	109.076	91.097	0.000	0.000									

FOR PIER PROGRAM INPUT

61LL 1 1 91097	0	53242	0	0	0	0	0	0	0	0	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 2 2 91097	0	019076	0	88506	0	0	0	0	0	0	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 3 3 91097	0	019076	0	125412	90185	0	17248	0	0	0	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 4 4 91097	0	019076	0	125412	109004	0	107433	0	35335	0	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 5 5 91097	0	019076	0	125412	109004	0	108164	0	125521	53423	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 6 1	0	0	0	0	0	0	0	0	0	0	0	0							
62 0 53242	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 7 2	0	0	0	0	0	0	0	0	0	88506	0	0							
62 0 109076	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 8 3	0	0	0	0	0	0	17248	0	90185	125412	0	0							
62 0 109076	0	0	0	0	0	0	0	0	0	0	0	0							
61LL 9 4	0	0	0	0	35335	0	107433	0	109004	125412	0	0							
62 0 109076	0	0	0	0	0	0	0	0	0	0	0	0							
61LL10 5	0	0	0	0	53423	125521	0	108164	0	109004	125412	0							
62 0 109076	0	0	0	0	0	0	0	0	0	0	0	0							
61LL11 1	0	0	0	0	0	27077	0	90185	0	27077	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL12 2	0	0	0	0	45164	117262	0	99175	0	27077	0	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL13 3	0	0	0	0	45164	117262	0	108164	0	117262	45164	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL14 4	0	0	72350	0	117154	117262	0	108164	0	117262	45164	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL15 5	0	0	72350	0	117154	117262	0	108164	0	117262	117154	0							
62 0 72350	0	0	0	0	0	0	0	0	0	0	0	0							
61LL16 2	0	0	0	0	36	90185	0	108236	0	90185	36	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL17 3	0	0	18123	0	9022	1126216	0	108236	0	90185	36	0							
62 0 0	0	0	0	0	0	0	0	0	0	0	0	0							
61LL18 4	0	0	18123	0	9022	1126216	0	108236	0	126216	90221	0							

62	18123	0	0							
61LL19	5 36211	0108309	0108164126216	0108236	0126216	90221	0			
62	18123	0	0							
61LL20	2 91097	0 53242	0	0	0	0	0	0	0	0
62	53242	0 91097								
61LL21	3 91097	0109076	0 88506	0	0	0	0	0	0	0
62	53242	0 91097								
61LL22	4 91097	0109076	0 88506	0	0	0	0	0	88506	0
62	109076	0 91097								
61LL23	5 91097	0109076	0125412 90185	0 17248	0	0	88506	0		
62	109076	0 91097								