

20-OCT-09
11:38:09

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

PROB. NO. LL01

48.69' CURB-TO-CURB; 8 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
51.940	3.625	3.625	25.970	8	68.706	4	2	5.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.399	6.449	6.449	6.449	6.449	6.449	6.449	6.449												

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
11.000	29.940			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9995	68.674
2	1.0005	68.738
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

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9995	68.674
2	1.4148	97.205
3	1.0696	73.490
4	0.5160	35.456
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9995	68.674
2	1.4148	97.205
3	1.0696	73.490
4	1.3797	94.797
5	1.0696	73.490
6	0.0667	4.581
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 4 4 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.9995         68.674
2       1.4148         97.205
3       1.0696         73.490
4       1.3797         94.797
5       1.3827         94.999
6       1.1363         78.071
7       0.6173         42.413
8       0.0000         0.000
    
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LIVE LOAD CASE # 5 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       1.0008         68.759
8       0.9992         68.653
    
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LIVE LOAD CASE # 6 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       0.5162         35.466
6       1.0696         73.490
7       1.4149         97.215
8       0.9992         68.653
    
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LIVE LOAD CASE # 7 3 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.0000         0.000
2       0.0000         0.000
3       0.0668         4.592
4       1.0696         73.490
5       1.3797         94.797
6       1.0696         73.490
7       1.4149         97.215
8       0.9992         68.653
    
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LIVE LOAD CASE # 8 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6175	42.423
3	1.1365	78.081
4	1.3825	94.989
5	1.3797	94.797
6	1.0696	73.490
7	1.4149	97.215
8	0.9992	68.653

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LIVE LOAD CASE # 9 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.4652	31.961
4	1.0696	73.490
5	0.4652	31.961
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0158	1.087
2	1.0696	73.490
3	1.3797	94.797
4	1.0696	73.490
5	0.4652	31.961
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

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LIVE LOAD CASE # 11 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0158	1.087
2	1.0696	73.490
3	1.3797	94.797
4	1.0696	73.490
5	1.3797	94.797
6	1.0696	73.490
7	0.0158	1.087
8	0.0000	0.000

LIVE LOAD CASE # 12 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
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1	0.0158	1.087
2	1.0696	73.490
3	1.3797	94.797
4	1.0696	73.490
5	1.3797	94.797
6	1.4336	98.494
7	1.0854	74.576
8	0.5664	38.918

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LIVE LOAD CASE # 13 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.7406	50.882
4	1.2596	86.540
5	1.2594	86.530
6	0.7404	50.872
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 14 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.2912	20.008
2	1.0696	73.490
3	1.3797	94.797
4	1.2596	86.540
5	1.2594	86.530
6	0.7404	50.872
7	0.0000	0.000
8	0.0000	0.000

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LIVE LOAD CASE # 15 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.2912	20.008
2	1.0696	73.490
3	1.3797	94.797
4	1.2596	86.540
5	1.2594	86.530
6	1.3797	94.797
7	1.0696	73.490
8	0.2911	19.997

LIVE LOAD CASE # 16 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9995	68.674
2	1.0005	68.738
3	0.0000	0.000
4	0.0000	0.000

5	0.0000	0.000
6	0.0000	0.000
7	1.0008	68.759
8	0.9992	68.653

LIVE LOAD CASE # 17 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9995	68.674
2	1.4148	97.205
3	1.0696	73.490
4	0.5160	35.456
5	0.0000	0.000
6	0.0000	0.000
7	1.0008	68.759
8	0.9992	68.653

LIVE LOAD CASE # 18 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9995	68.674
2	1.4148	97.205
3	1.0696	73.490
4	0.5160	35.456
5	0.5162	35.466
6	1.0696	73.490
7	1.4149	97.215
8	0.9992	68.653

20-OCT-09
11:38:09

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

PROB. NO. LL01

48.69' CURB-TO-CURB; 8 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE																																																																																																																																																																																																																																																																																																																																																														
51.940	3.625	3.625	25.970	8	68.706	4	2	5.000	0																																																																																																																																																																																																																																																																																																																																																														
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	3.399	6.449	6.449	6.449	6.449	6.449	6.449	6.449													XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																11.000	29.940																			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	68.674	68.738	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	68.674	97.205	73.490	35.456	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 3	3	68.674	97.205	73.490	94.797	73.490	4.581	0.000	0.000	0.000	0.000									LL CASE 4	4	68.674	97.205	73.490	94.797	94.999	78.071	42.413	0.000	0.000	0.000									LL CASE 5	1	0.000	0.000	0.000	0.000	0.000	0.000	68.759	68.653	0.000	0.000									LL CASE 6	2	0.000	0.000	0.000	0.000	35.466	73.490	97.215	68.653	0.000	0.000									LL CASE 7	3	0.000	0.000	4.592	73.490	94.797	73.490	97.215	68.653	0.000	0.000									LL CASE 8	4	0.000	42.423	78.081	94.989	94.797	73.490	97.215	68.653	0.000	0.000									LL CASE 9	1	0.000	0.000	31.961	73.490	31.961	0.000	0.000	0.000	0.000	0.000									LL CASE 10	2	1.087	73.490	94.797	73.490	31.961	0.000	0.000	0.000	0.000	0.000									LL CASE 11	3	1.087	73.490	94.797	73.490	94.797	73.490	1.087	0.000	0.000	0.000									LL CASE 12	4	1.087	73.490	94.797	73.490	94.797	98.494	74.576	38.918	0.000	0.000									LL CASE 13	2	0.000	0.000	50.882	86.540	86.530	50.872	0.000	0.000	0.000	0.000								
3.399	6.449	6.449	6.449	6.449	6.449	6.449	6.449																																																																																																																																																																																																																																																																																																																																																																
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																																																																																																																																																																																																																																																																																																																																																																			
11.000	29.940																																																																																																																																																																																																																																																																																																																																																																						
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	68.674	68.738	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 2	2	68.674	97.205	73.490	35.456	0.000	0.000	0.000	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 3	3	68.674	97.205	73.490	94.797	73.490	4.581	0.000	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 4	4	68.674	97.205	73.490	94.797	94.999	78.071	42.413	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 5	1	0.000	0.000	0.000	0.000	0.000	0.000	68.759	68.653	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 6	2	0.000	0.000	0.000	0.000	35.466	73.490	97.215	68.653	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 7	3	0.000	0.000	4.592	73.490	94.797	73.490	97.215	68.653	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 8	4	0.000	42.423	78.081	94.989	94.797	73.490	97.215	68.653	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 9	1	0.000	0.000	31.961	73.490	31.961	0.000	0.000	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 10	2	1.087	73.490	94.797	73.490	31.961	0.000	0.000	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 11	3	1.087	73.490	94.797	73.490	94.797	73.490	1.087	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 12	4	1.087	73.490	94.797	73.490	94.797	98.494	74.576	38.918	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												
LL CASE 13	2	0.000	0.000	50.882	86.540	86.530	50.872	0.000	0.000	0.000	0.000																																																																																																																																																																																																																																																																																																																																																												

LL-49-8-140.OUT											
LL CASE 14	3	20.008	73.490	94.797	86.540	86.530	50.872	0.000	0.000	0.000	0.000
LL CASE 15	4	20.008	73.490	94.797	86.540	86.530	94.797	73.490	19.997	0.000	0.000
LL CASE 16	2	68.674	68.738	0.000	0.000	0.000	0.000	68.759	68.653	0.000	0.000
LL CASE 17	3	68.674	97.205	73.490	35.456	0.000	0.000	68.759	68.653	0.000	0.000
LL CASE 18	4	68.674	97.205	73.490	35.456	35.466	73.490	97.215	68.653	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1 68674	0 68737	0	0	0	0	0	0	0	0	0
61LL 2 2 68674	0 97204	0 73489	35455	0	0	0	0	0	0	0
61LL 3 3 68674	0 97204	0 73489	94797	73489	4581	0	0	0	0	0
61LL 4 4 68674	0 97204	0 73489	94797	94999	78070	0 42412	0	0	0	0
61LL 5 1 0	0 0	0	0	0	0	0 68759	0 68652			
61LL 6 2 0	0 0	0	0	0 35466	73489	0 97215	0 68652			
61LL 7 3 0	0 0	0 4591	73489	94797	73489	0 97215	0 68652			
61LL 8 4 0	0 42423	0 78081	94988	94797	73489	0 97215	0 68652			
61LL 9 1 0	0 0	0 31961	73489	31961	0	0 0	0 0			
61LL10 2 1086	0 73489	0 94797	73489	31961	0	0 0	0 0			
61LL11 3 1086	0 73489	0 94797	73489	94797	73489	0 1086	0 0			
61LL12 4 1086	0 73489	0 94797	73489	94797	98493	0 74576	0 38918			
61LL13 2 0	0 0	0 50882	86540	86529	50871	0 0	0 0			
61LL14 3 20007	0 73489	0 94797	86540	86529	50871	0 0	0 0			
61LL15 4 20007	0 73489	0 94797	86540	86529	94797	0 73489	0 19997			
61LL16 2 68674	0 68737	0	0	0	0	0 68759	0 68652			
61LL17 3 68674	0 97204	0 73489	35455	0	0	0 68759	0 68652			
61LL18 4 68674	0 97204	0 73489	35455	35466	73489	0 97215	0 68652			