

28-OCT-09
15:17:44

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

PROB. NO. LL01

44.00' CURB-TO-CURB; 6 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										
47.250	3.625	3.625	23.625	6	68.706	3	1	*****	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.238	8.155	8.155	8.155	8.155	8.155														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
23.625																			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1693	80.341
2	0.8307	57.071
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1693	80.341
2	1.5570	106.972
3	1.2643	86.862
4	0.0094	0.649
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1693	80.341
2	1.5570	106.972
3	1.7643	121.219
4	1.2737	87.511
5	0.2357	16.193
6	0.0000	0.000

LIVE LOAD CASE # 4 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	0.8309	57.088
6	1.1691	80.324

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LIVE LOAD CASE # 5 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0096	0.657
4	1.2643	86.862
5	1.5571	106.981
6	1.1691	80.324

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.2358	16.201
3	1.2738	87.519
4	1.7642	121.211
5	1.5571	106.981
6	1.1691	80.324

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LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3679	25.275
3	1.2643	86.862
4	0.3679	25.275
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.5941	40.819
2	1.6321	112.137
3	1.4059	96.593
4	0.3679	25.275
5	0.0000	0.000
6	0.0000	0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.5941	40.819
2	1.6321	112.137
3	1.5475	106.324
4	1.6321	112.137
5	0.5941	40.819
6	0.0000	0.000

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4811	33.051
3	1.5191	104.369
4	1.5189	104.361
5	0.4809	33.043
6	0.0000	0.000

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LIVE LOAD CASE # 11 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.7073	48.595
2	1.7453	119.913
3	1.5475	106.324
4	1.5189	104.361
5	0.4809	33.043
6	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1693	80.341
2	0.8307	57.071
3	0.0000	0.000
4	0.0000	0.000
5	0.8309	57.088
6	1.1691	80.324

□

LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1693	80.341
2	1.5570	106.972
3	1.2643	86.862
4	0.0094	0.649
5	0.8309	57.088
6	1.1691	80.324

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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

44.00' CURB-TO-CURB; 6 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	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20						
47.250	3.625	3.625	23.625	6	68.706	3	1		0	3.238	8.155	8.155	8.155	8.155	8.155																				
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																															
23.625																																			
		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	80.341	57.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 2	2	2	80.341	106.972	86.862	0.649	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 3	3	3	80.341	106.972	121.219	87.511	16.193	0.000	0.000	0.000	0.000	0.000																							
LL CASE 4	4	1	0.000	0.000	0.000	0.000	57.088	80.324	0.000	0.000	0.000	0.000																							
LL CASE 5	5	2	0.000	0.000	0.657	86.862	106.981	80.324	0.000	0.000	0.000	0.000																							
LL CASE 6	6	3	0.000	16.201	87.519	121.211	106.981	80.324	0.000	0.000	0.000	0.000																							
LL CASE 7	7	1	0.000	25.275	86.862	25.275	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 8	8	2	40.819	112.137	96.593	25.275	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 9	9	3	40.819	112.137	106.324	112.137	40.819	0.000	0.000	0.000	0.000	0.000																							
LL CASE 10	10	2	0.000	33.051	104.369	104.361	33.043	0.000	0.000	0.000	0.000	0.000																							
LL CASE 11	11	3	48.595	119.913	106.324	104.361	33.043	0.000	0.000	0.000	0.000	0.000																							
LL CASE 12	12	2	80.341	57.071	0.000	0.000	57.088	80.324	0.000	0.000	0.000	0.000																							
LL CASE 13	13	3	80.341	106.972	86.862	0.649	57.088	80.324	0.000	0.000	0.000	0.000																							

FOR PIER PROGRAM INPUT

61LL 1	1	80340	57071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
61LL 2	2	80340	106972	0	86861	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
61LL 3	3	80340	106972	0	121219	87510	0	16192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
61LL 4	1	0	0	0	0	0	0	57087	80324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
61LL 5	2	0	0	0	657	86861	0	106980	80324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
61LL 6	3	0	16201	0	87519	121210	0	106980	80324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL 7	1	0	25275	0	86861	25275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL 8	2	40819	112136	0	96592	25275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL 9	3	40819	112136	0	106323	112136	0	40819	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL10	2	0	33051	0	104369	104360	0	33042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL11	3	48595	119913	0	106323	104360	0	33042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL12	2	80340	57071	0	0	0	0	57087	80324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61LL13	3	80340	106972	0	86861	648	0	57087	80324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0