

28-OCT-09
11:12:14

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

PROB. NO. LL01

40.00' CURB-TO-CURB; 6 BEAMS; 137.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
43.250	3.625	3.625	21.625	6	67.715	3	1	*****	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.628	7.199	7.199	7.199	7.199	7.199														

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
21.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1670	79.021
2	0.8330	56.409
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	1.1670	79.021
2	1.4444	97.805
3	1.1666	78.993
4	0.2221	15.040
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	1.1670	79.021
2	1.4444	97.805
3	1.3888	94.043
4	1.3887	94.033
5	0.6112	41.387
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	0.8332	56.418
6	1.1668	79.012

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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	0.2223	15.050
4	1.1666	78.993
5	1.4444	97.805
6	1.1668	79.012

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6113	41.397
3	1.3888	94.043
4	1.3887	94.033
5	1.4444	97.805
6	1.1668	79.012

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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	0.4167	28.219
3	1.1666	78.993
4	0.4167	28.219
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	0.8058	54.565
2	1.5833	107.211
3	1.1942	80.865
4	0.4167	28.219
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	0.8058	54.565
2	1.5833	107.211
3	1.2218	82.737
4	1.5833	107.211
5	0.8058	54.565
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	0.6113	41.397
3	1.3888	94.043
4	1.3887	94.033
5	0.6112	41.387
6	0.0000	0.000

LIVE LOAD CASE # 11 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1670	79.021
2	1.4444	97.805
3	1.3888	94.043
4	1.3887	94.033
5	0.6112	41.387
6	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1670	79.021
2	0.8330	56.409
3	0.0000	0.000
4	0.0000	0.000
5	0.8332	56.418
6	1.1668	79.012

LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1670	79.021
2	1.4444	97.805
3	1.1666	78.993
4	0.2221	15.040
5	0.8332	56.418
6	1.1668	79.012

28-OCT-09
11:12:14

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

40.00' CURB-TO-CURB; 6 BEAMS; 137.00' 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
43.250	3.625	3.625	21.625	6	67.715	3	1		0	3.628	7.199	7.199	7.199	7.199	7.199														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																									
21.625																													
		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	79.021	56.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 2	2	2	79.021	97.805	78.993	15.040	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 3	3	3	79.021	97.805	94.043	94.033	41.387	0.000	0.000	0.000	0.000	0.000																	
LL CASE 4	4	1	0.000	0.000	0.000	0.000	56.418	79.012	0.000	0.000	0.000	0.000																	
LL CASE 5	5	2	0.000	0.000	15.050	78.993	97.805	79.012	0.000	0.000	0.000	0.000																	
LL CASE 6	6	3	0.000	41.397	94.043	94.033	97.805	79.012	0.000	0.000	0.000	0.000																	
LL CASE 7	7	1	0.000	28.219	78.993	28.219	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 8	8	2	54.565	107.211	80.865	28.219	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 9	9	3	54.565	107.211	82.737	107.211	54.565	0.000	0.000	0.000	0.000	0.000																	
LL CASE 10	10	2	0.000	41.397	94.043	94.033	41.387	0.000	0.000	0.000	0.000	0.000																	
LL CASE 11	11	3	79.021	97.805	94.043	94.033	41.387	0.000	0.000	0.000	0.000	0.000																	
LL CASE 12	12	2	79.021	56.409	0.000	0.000	56.418	79.012	0.000	0.000	0.000	0.000																	
LL CASE 13	13	3	79.021	97.805	78.993	15.040	56.418	79.012	0.000	0.000	0.000	0.000																	

FOR PIER PROGRAM INPUT

61LL 1 1 79021 56408	0	0	0	0	0	0	0	0	0	0	0	0
61LL 2 2 79021 97805	0	78992	15040	0	0	0	0	0	0	0	0	0
61LL 3 3 79021 97805	0	94042	94033	0	41387	0	0	0	0	0	0	0
61LL 4 1 0 0	0	0	0	0	56418	79011	0	0	0	0	0	0
61LL 5 2 0 0	0	15049	78992	0	97805	79011	0	0	0	0	0	0
61LL 6 3 0 41396	0	94042	94033	0	97805	79011	0	0	0	0	0	0
61LL 7 1 0 28218	0	78992	28218	0	0	0	0	0	0	0	0	0
61LL 8 2 54565107211	0	80864	28218	0	0	0	0	0	0	0	0	0
61LL 9 3 54565107211	0	82736107211	0	54565	0	0	0	0	0	0	0	0
61LL10 2 0 41396	0	94042	94033	0	41387	0	0	0	0	0	0	0
61LL11 3 79021 97805	0	94042	94033	0	41387	0	0	0	0	0	0	0
61LL12 2 79021 56408	0	0	0	0	56418	79011	0	0	0	0	0	0
61LL13 3 79021 97805	0	78992	15040	0	56418	79011	0	0	0	0	0	0