

27-OCT-09
13:23:14

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

PROB. NO. LL01

32.00' CURB-TO-CURB; 5 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
35.250	3.625	3.625	17.625	5	68.706	2	2	2.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.047	7.289	7.289	7.289	7.289															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
1.000	34.250			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0182	69.960
2	0.9818	67.452
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0182	69.960
2	1.5305	105.156
3	1.1768	80.856
4	0.2744	18.852
5	0.0000	0.000

LIVE LOAD CASE # 3 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	0.9818	67.452
5	1.0182	69.960

LIVE LOAD CASE # 4 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.2744	18.852
3	1.1768	80.856
4	1.5305	105.156
5	1.0182	69.960

LIVE LOAD CASE # 5 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4116	28.278
3	1.1768	80.856
4	0.4116	28.278
5	0.0000	0.000

LIVE LOAD CASE # 6 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.7835	53.832
2	1.5884	109.134
3	1.2165	83.580
4	0.4116	28.278
5	0.0000	0.000

LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0975	6.702
2	1.1768	80.856
3	1.4512	99.708
4	1.1768	80.856
5	0.0975	6.702

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0182	69.960
2	0.9818	67.452
3	0.0000	0.000
4	0.9818	67.452
5	1.0182	69.960

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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

32.00' CURB-TO-CURB; 5 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
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35.250 3.625 3.625 17.625 5 68.706 LL-32-5-140.OUT
 2 2.000 0

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20
 3.047 7.289 7.289 7.289 7.289

XCOL1 XCOL2 XCOL3 XCOL4 XCOL5
 1.000 34.250

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 69.960 67.452 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 LL CASE 2 2 69.960 105.156 80.856 18.852 0.000 0.000 0.000 0.000 0.000 0.000
 LL CASE 3 1 0.000 0.000 0.000 67.452 69.960 0.000 0.000 0.000 0.000 0.000
 LL CASE 4 2 0.000 18.852 80.856 105.156 69.960 0.000 0.000 0.000 0.000 0.000
 LL CASE 5 1 0.000 28.278 80.856 28.278 0.000 0.000 0.000 0.000 0.000 0.000
 LL CASE 6 2 53.832 109.134 83.580 28.278 0.000 0.000 0.000 0.000 0.000 0.000
 LL CASE 7 2 6.702 80.856 99.708 80.856 6.702 0.000 0.000 0.000 0.000 0.000
 LL CASE 8 2 69.960 67.452 0.000 67.452 69.960 0.000 0.000 0.000 0.000 0.000

FOR PIER PROGRAM INPUT

6111 1 1 0 0 69959 67452 0 0 0 0 0
 6111 2 2 0 0 69959 105156 80856 18851 0 0 0
 6111 3 1 0 0 0 0 0 67452 69959 0 0
 6111 4 2 0 0 0 18851 80856 105156 69959 0 0
 6111 5 1 0 0 0 28277 80856 28277 0 0 0
 6111 6 2 0 0 53831 109134 83580 28277 0 0 0
 6111 7 2 0 0 6701 80856 99708 80856 6701 0 0
 6111 8 2 0 0 69959 67452 0 67452 69959 0 0