

04-NOV-09
10:43:50

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

PROB. NO. LL01

36.00' CURB-TO-CURB; 5 BEAMS; 155.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
39.250	3.625	3.625	19.625	5	73.779	3	1	8.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
19.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	92.224
2	0.7500	55.334
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	1.2500	92.224
2	1.5000	110.669
3	1.2500	92.224
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	92.224
2	1.5000	110.669
3	1.7500	129.113
4	1.2500	92.224
5	0.2500	18.445

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	0.7500	55.334
5	1.2500	92.224

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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	1.2500	92.224
4	1.5000	110.669
5	1.2500	92.224

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.2500	18.445
2	1.2500	92.224
3	1.7500	129.113
4	1.5000	110.669
5	1.2500	92.224

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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	0.3750	27.667
3	1.2500	92.224
4	0.3750	27.667
5	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	46.112
2	1.6250	119.891
3	1.3750	101.446
4	0.3750	27.667
5	0.0000	0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD	
1	0.6250		46.112	
2	1.6250		119.891	
3	1.5000		110.669	
4	1.6250		119.891	
5	0.6250		46.112	

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD	
1	0.0000		0.000	
2	1.2500		92.224	
3	1.5000		110.669	
4	1.2500		92.224	
5	0.0000		0.000	

LIVE LOAD CASE # 11 2 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD	
1	1.2500		92.224	
2	0.7500		55.334	
3	0.0000		0.000	
4	0.7500		55.334	
5	1.2500		92.224	

LIVE LOAD CASE # 12 3 TRUCKS

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I	I	I	I	I
BEAM	WHEEL	FRACTION	P-LOAD	
1	1.2500		92.224	
2	1.5000		110.669	
3	1.2500		92.224	
4	0.7500		55.334	
5	1.2500		92.224	

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 PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
 SUMMARY OF THE LIVE LOAD CASE PROGRAM
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PROB. NO. LL01

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D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
19.625																			
	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	92.224	55.334	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	92.224	110.669	92.224	0.000	0.000	0.000	0.000	0.000	0.000	0.000								

LL-36-5-155.OUT

LL CASE	3	3	92.224	110.669	129.113	92.224	18.445	0.000	0.000	0.000	0.000	0.000
LL CASE	4	1	0.000	0.000	0.000	55.334	92.224	0.000	0.000	0.000	0.000	0.000
LL CASE	5	2	0.000	0.000	92.224	110.669	92.224	0.000	0.000	0.000	0.000	0.000
LL CASE	6	3	18.445	92.224	129.113	110.669	92.224	0.000	0.000	0.000	0.000	0.000
LL CASE	7	1	0.000	27.667	92.224	27.667	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	46.112	119.891	101.446	27.667	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	9	3	46.112	119.891	110.669	119.891	46.112	0.000	0.000	0.000	0.000	0.000
LL CASE	10	2	0.000	92.224	110.669	92.224	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	11	2	92.224	55.334	0.000	55.334	92.224	0.000	0.000	0.000	0.000	0.000
LL CASE	12	3	92.224	110.669	92.224	55.334	92.224	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	92223	55334	0	0	0	0	0
61LL	2	2	92223	110668	0	92223	0	0	0
61LL	3	3	92223	110668	0129113	0	92223	18444	0
61LL	4	1	0	0	0	0	55334	92223	0
61LL	5	2	0	0	0	92223	0110668	92223	0
61LL	6	3	18444	92223	0129113	0110668	92223	0	0
61LL	7	1	0	27667	0	92223	0	27667	0
61LL	8	2	46111	119890	0101446	0	27667	0	0
61LL	9	3	46111	119890	0110668	0119890	46111	0	0
61LL	10	2	0	92223	0110668	0	92223	0	0
61LL	11	2	92223	55334	0	0	55334	92223	0
61LL	12	3	92223	110668	0	92223	0	55334	92223