

05-NOV-09
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GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

46.32' CURB-TO-CURB; 7 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
49.570	3.625	3.625	24.785	7	68.706	3	2	5.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.626	7.053	7.053	7.053	7.053	7.053	7.053													

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
11.000	27.570			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1494	78.973
2	0.8506	58.439
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

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1494	78.973
2	1.4329	98.446
3	1.1493	78.964
4	0.2684	18.440
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1494	78.973
2	1.4329	98.446
3	1.3138	90.264
4	1.4177	97.404
5	0.6862	47.148
6	0.0000	0.000
7	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	0.0000	0.000
6	0.8506	58.439
7	1.1494	78.973

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	0.0000	0.000
4	0.2684	18.440
5	1.1493	78.964
6	1.4329	98.446
7	1.1494	78.973

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.6862	47.148
4	1.4177	97.404
5	1.3138	90.264
6	1.4329	98.446
7	1.1494	78.973

LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.4254	29.224
4	1.1493	78.964
5	0.4254	29.224
6	0.0000	0.000
7	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.8432	57.932
3	1.5746	108.188

4 1.1568 79.480
 5 0.4254 29.224
 6 0.0000 0.000
 7 0.0000 0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.8432	57.932
3	1.5746	108.188
4	1.1643	79.996
5	1.5746	108.188
6	0.8432	57.932
7	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	0.1343	9.225
3	1.1493	78.964
4	1.4329	98.446
5	1.1493	78.964
6	0.1343	9.225
7	0.0000	0.000

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LIVE LOAD CASE # 11 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.5521	37.933
2	1.2836	88.189
3	1.4479	99.479
4	1.4329	98.446
5	1.1493	78.964
6	0.1343	9.225
7	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1494	78.973
2	0.8506	58.439
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.8506	58.439
7	1.1494	78.973

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LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL	FRACTION	P-LOAD
1	1.1494		78.973
2	1.4329		98.446
3	1.1493		78.964
4	0.2684		18.440
5	0.0000		0.000
6	0.8506		58.439
7	1.1494		78.973

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 PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
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 REVISED: JUNE 26, 2008
 PROB. NO. LL01

46.32' CURB-TO-CURB; 7 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
49.570	3.625	3.625	24.785	7	68.706	3	2	5.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.626	7.053	7.053	7.053	7.053	7.053	7.053													

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
11.000	27.570			

	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	78.973	58.439	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 2	2	78.973	98.446	78.964	18.440	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 3	3	78.973	98.446	90.264	97.404	47.148	0.000	0.000	0.000	0.000	0.000
LL CASE 4	1	0.000	0.000	0.000	0.000	0.000	58.439	78.973	0.000	0.000	0.000
LL CASE 5	2	0.000	0.000	0.000	18.440	78.964	98.446	78.973	0.000	0.000	0.000
LL CASE 6	3	0.000	0.000	47.148	97.404	90.264	98.446	78.973	0.000	0.000	0.000
LL CASE 7	1	0.000	0.000	29.224	78.964	29.224	0.000	0.000	0.000	0.000	0.000
LL CASE 8	2	0.000	57.932	108.188	79.480	29.224	0.000	0.000	0.000	0.000	0.000
LL CASE 9	3	0.000	57.932	108.188	79.996	108.188	57.932	0.000	0.000	0.000	0.000
LL CASE 10	2	0.000	9.225	78.964	98.446	78.964	9.225	0.000	0.000	0.000	0.000
LL CASE 11	3	37.933	88.189	99.479	98.446	78.964	9.225	0.000	0.000	0.000	0.000
LL CASE 12	2	78.973	58.439	0.000	0.000	0.000	58.439	78.973	0.000	0.000	0.000
LL CASE 13	3	78.973	98.446	78.964	18.440	0.000	58.439	78.973	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1	78973	0	58438	0	0	0	0	0	0	0	0
61LL 2 2	78973	0	98446	0	78963	18440	0	0	0	0	0
61LL 3 3	78973	0	98446	0	90263	97404	47148	0	0	0	0
61LL 4 1	0	0	0	0	0	0	0	58438	0	78973	0
61LL 5 2	0	0	0	0	0	18440	78963	0	98446	0	78973
61LL 6 3	0	0	0	0	47148	97404	90263	0	98446	0	78973
61LL 7 1	0	0	0	0	29224	78963	29224	0	0	0	0
61LL 8 2	0	0	57932	0108187	79479	29224	0	0	0	0	0
61LL 9 3	0	0	57932	0108187	79996	108187	0	57932	0	0	0
61LL10 2	0	0	9225	0	78963	98446	78963	0	9225	0	0
61LL11 3	37932	0	88188	0	99479	98446	78963	0	9225	0	0
61LL12 2	78973	0	58438	0	0	0	0	58438	0	78973	0
61LL13 3	78973	0	98446	0	78963	18440	0	0	58438	0	78973