

23-OCT-09
13:20:57

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; 138.50' 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	68.201	3	1	*****	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.125	8.200	8.200	8.200	8.200	8.200														

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
23.625				

LIVE LOAD CASE # 1 1 TRUCKS

* *
* *
* *
*** **
* *

I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.1463	78.182
2	0.8537	58.220
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

* * * *
* * * *
* * * *
*** ** * *
* * * *

I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.1463	78.182
2	1.5732	107.292
3	1.2683	86.499
4	0.0122	0.832
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

* * * * *
* * * * *
* * * * *
*** ** * *
* * * *

I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.1463	78.182
2	1.5732	107.292
3	1.7683	120.599
4	1.2805	87.331
5	0.2317	15.803
6	0.0000	0.000

LIVE LOAD CASE # 4 1 TRUCKS

* *
* *
* *
*** **
* *

I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I
I	I	I	I	I	I

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	0.8537	58.220
6	1.1463	78.182

□

LIVE LOAD CASE # 5 2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *
    
```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0122	0.832
4	1.2683	86.499
5	1.5732	107.292
6	1.1463	78.182

LIVE LOAD CASE # 6 3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** ** ** ** ** **
*   *   *   *   *   *
    
```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.2317	15.803
3	1.2805	87.331
4	1.7683	120.599
5	1.5732	107.292
6	1.1463	78.182

□

LIVE LOAD CASE # 7 1 TRUCKS

```

*   *
*   *
*   *
*** **
*   *
    
```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3659	24.952
3	1.2683	86.499
4	0.3659	24.952
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *
    
```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.5854	39.923
2	1.6341	111.450
3	1.4146	96.479
4	0.3659	24.952
5	0.0000	0.000
6	0.0000	0.000

□

LIVE LOAD CASE # 9 3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** ** ** ** ** **
*   *   *   *   *   *

```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.5854	39.923
2	1.6341	111.450
3	1.5610	106.460
4	1.6341	111.450
5	0.5854	39.923
6	0.0000	0.000

LIVE LOAD CASE # 10 2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *

```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4756	32.437
3	1.5244	103.965
4	1.5244	103.965
5	0.4756	32.437
6	0.0000	0.000

LIVE LOAD CASE # 11 3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** ** ** ** **
*   *   *   *   *   *

```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.6951	47.408
2	1.7439	118.936
3	1.5610	106.460
4	1.5244	103.965
5	0.4756	32.437
6	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

```

*   *   *   *   *
*   *   *   *   *
*   *   *   *   *
*** ** ** **
*   *   *   *   *

```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	1.1463	78.182
2	0.8537	58.220
3	0.0000	0.000
4	0.0000	0.000
5	0.8537	58.220
6	1.1463	78.182

LIVE LOAD CASE # 13 3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** **   *** **
*   *   *   *   *   *

```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I

```

