```
        -------------------------- PROGRAM BRUG(5.75.44)
        -------------------------
        - INPUTFILE  : 1_III_B_R2_EL.txt    -  OUTPUTFILE : 1_III_B_R2_EL.OUT
        -
        - DATE       :    11/09/200         -  TIME       :     13:26:00
        -

        ---------------------------------------------------------------------
        ----


                            ********** BRUG INPUT DATA LISTING **********

           5   10   15   20   25   30   35   40   45   50   55   60   65   70
           75   80
           V    V    V    V    V    V    V    V    V    V    V    V    V    V
           V    V
    1 |* start ; column 11-30 can be used to have your own text on the top of
    each page
    2 |*   5   10   15   20   25   30   35   40   45   50   55   60   65   70
    75   80
    3 |*   V    V    V    V    V    V    V    V    V    V    V    V    V    V
    V    V
    4 |00001  1 1     VEH: R2 - TOLL ROAD LOADING No. 2- SINGLE TRUCK
    5 |* code 1001
    6 |Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' Wide -
    Single Vehicle
    7 |* code 1002
    8 |    2         1
    9 |* code 1003
   10 |*   5   10   15   20   25   30   35   40   45   50   55   60   65   70
   75   80
   11 |*   V    V    V    V    V    V    V    V    V    V    V    V    V    V
   V    V
   12 |250.0     170.0     71.1050   1.0       1.0       1.3
   13 |* code 1004
   14 |    1    0    2
   15 |* code 1005
   16 |   90    1
   17 |* code 1005a
   18 |* location traffic lanes
   19 |7.667
   20 |* maximum and minimum truck
   21 |6.667     64.438    10.000
   22 |* code 1007, linear loads
   23 |0.7350    0.441
   24 |70.37     0.441
   25 |* code 1201
   26 |   10    6    5    2    4
   27 |* code 1202 coordinates
   28 |0.0000    0.0
   29 |10.7917   0.0
   30 |10.7917   -9.0005
   31 |26.6250   0.0
   32 |26.6250   -9.0005
   33 |49.0217   0.0
   34 |49.0217   -9.0005
   35 |64.8550   0.0
   36 |64.8550   -9.0005
   37 |71.1050   0.0
   38 |* code 1203 - profile 1
   39 |    5    2    3    4
   40 |0.0000    0.750
   41 |5.2083    0.750
   42 |7.7083    1.208
```



```
   43 |10.2083   1.667
   44 |10.7917   1.667
   45 |* code 1203 - profile 2
           ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^
           ^    ^
           5   10   15   20   25   30   35   40   45   50   55   60   65   70
           75   80
```

********** BRUG INPUT DATA LISTING **********

```
          5   10   15   20   25   30   35   40   45   50   55   60   65   70
          75   80
          V    V    V    V    V    V    V    V    V    V    V    V    V    V
          V    V
 46 |     7    2    3    4
 47 |0.0000    1.667
 48 |0.5833    1.667
 49 |5.5833    0.750
 50 |7.9167    0.750
 51 |10.2500   0.750
 52 |15.2500   1.667
 53 |15.8333   1.667
 54 |* code 1203 - profile 3
 55 |     7    2    3    4
 56 |0.0000    1.667
 57 |0.5833    1.667
 58 |5.5833    0.750
 59 |11.1983   0.750
 60 |16.8133   0.750
 61 |21.8133   1.667
 62 |22.3967   1.667
 63 |* code 1203 - profile 4
 64 |     5    2    3    4
 65 |0.0000    1.667
 66 |0.5833    1.667
 67 |2.5833    1.343
 68 |4.5833    1.020
 69 |6.2500    0.750
 70 |* code 1203 - profile 5
 71 |     7    2    3    4
 72 |0.0000    1.458
 73 |0.5833    1.458
 74 |1.5833    0.458
 75 |7.9167    0.458
 76 |14.2500   0.458
 77 |15.2500   1.458
 78 |15.8333   1.458
 79 |* code 1203 - profile 6
 80 |     5    2    3    4
 81 |0.0000    1.167
 82 |0.8334    1.167
 83 |4.3204    1.167
 84 |7.7714    1.167
 85 |9.0005    1.167
 86 |* code 1204 - assembling boxgirder
 87 |     1    2    1
 88 |     2    4    2
 89 |     4    6    3
 90 |     6    8    2
 91 |     8   10    4
 92 |     3    5    5
 93 |     7    9    5
 94 |     2    3    6
 95 |     4    5    6
          ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^
          ^    ^
          5   10   15   20   25   30   35   40   45   50   55   60   65   70
          75   80
```

1_III_B_R2_EL.OUT 9/11/2009

********** BRUG INPUT DATA LISTING **********

```
          5   10   15   20   25   30   35   40   45   50   55   60   65   70
          75   80
          V    V    V    V    V    V    V    V    V    V    V    V    V    V
          V    V
 96 |     6    7    6
 97 |     8    9    6
 98 |* code 1205 control code
 99 |     1    2   13    1    1    0    4    4     1.0       1.0
100 |* code 1206 wheels/axle
101 |       0.0
102 |       1.5
103 |       6.0
104 |       7.5 0.833
105 |* code 1207 definition axles
106 |0.00      22.50
107 |14.00     22.50
108 |23.00     22.50
109 |37.00     22.50
110 |* code 1208 - accuracy
111 |0.00001   0.00001   0.00001   .00001    .00001
112 |* code 1209 number sections
113 |   45
114 |   1A   1B   1C   1R   2L   2A   2B   2C   2R   3L   3A   3B   3C   3R
115 |   4L   4A   4B   4C   4R   5L   5B   5C
116 |   6A   6B   6C   7A   7B   7C   8L   8A   8B   8C   9L   9A   9B   9C
117 |  10L  10A  10B  10C  11L  11A  11B  11C
118 |* code 1210 - density conrete
119 |0.156
120 |* code 1211 - extra forces selfweight
121 |
122 |* code 1212 - surcharge
123 |1.777
124 |* code 1213 - Prestressing Layout - NONE
125 |•
          ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^
          ^    ^
          5   10   15   20   25   30   35   40   45   50   55   60   65   70
          75   80
```

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 1
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Length 250.000
Equivalent length 170.000

Data cross-section boxgidruker

Number of nodes 10
Number of profiles 6
Number of topslabs 5
Number of bottomslabs 2
Number of webs 4

Node coordinates

| Number | z | y |
|---|---|---|
| 1 | 0.000 | 0.000 |
| 2 | 10.792 | 0.000 |
| 3 | 10.792 | -9.001 |
| 4 | 26.625 | 0.000 |
| 5 | 26.625 | -9.001 |
| 6 | 49.022 | 0.000 |
| 7 | 49.022 | -9.001 |
| 8 | 64.855 | 0.000 |
| 9 | 64.855 | -9.001 |
| 10 | 71.105 | 0.000 |

Slab data

| number | type | start node | end node | thickness | profile number | length |
|---|---|---|---|---|---|---|
| 1 | top | 1 | 2 | - | 1 | 10.792 |
| 2 | top | 2 | 4 | - | 2 | 15.833 |
| 3 | top | 4 | 6 | - | 3 | 22.397 |
| 4 | top | 6 | 8 | - | 2 | 15.833 |
| 5 | top | 8 | 10 | - | 4 | 6.250 |
| 6 | bottom | 3 | 5 | - | 5 | 15.833 |
| 7 | bottom | 7 | 9 | - | 5 | 15.833 |
| 8 | web | 2 | 3 | - | 6 | 9.001 |
| 9 | web | 4 | 5 | - | 6 | 9.001 |
| 10 | web | 6 | 7 | - | 6 | 9.001 |
| 11 | web | 8 | 9 | - | 6 | 9.001 |

Data of profiles

Profile 1

| section | z | thickness |
|---|---|---|
| 1 (l) | 0.000 | 0.750 |
| 2 (a) | 5.208 | 0.750 |
| 3 (b) | 7.708 | 1.208 |
| 4 (c) | 10.208 | 1.667 |
| 5 (r) | 10.792 | 1.667 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 2
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Data cross-section boxgidruker (continued)

Data of profiles (continued)

Profile 2

| section | z | thickness |
|---|---|---|
| 1 (l) | 0.000 | 1.667 |
| 2 (a) | 0.583 | 1.667 |
| 3 (b) | 5.583 | 0.750 |
| 4 (c) | 7.917 | 0.750 |
| 5 | 10.250 | 0.750 |
| 6 | 15.250 | 1.667 |
| 7 (r) | 15.833 | 1.667 |

Profile 3

| section | z | thickness |
|---|---|---|
| 1 (l) | 0.000 | 1.667 |
| 2 (a) | 0.583 | 1.667 |
| 3 (b) | 5.583 | 0.750 |
| 4 (c) | 11.198 | 0.750 |
| 5 | 16.813 | 0.750 |
| 6 | 21.813 | 1.667 |
| 7 (r) | 22.397 | 1.667 |

Profile 4

| section | z | thickness |
|---|---|---|
| 1 (l) | 0.000 | 1.667 |
| 2 (a) | 0.583 | 1.667 |
| 3 (b) | 2.583 | 1.343 |
| 4 (c) | 4.583 | 1.020 |
| 5 (r) | 6.250 | 0.750 |

Profile 5

| section | z | thickness |
|---|---|---|
| 1 (l) | 0.000 | 1.458 |
| 2 (a) | 0.583 | 1.458 |
| 3 (b) | 1.583 | 0.458 |
| 4 (c) | 7.917 | 0.458 |
| 5 | 14.250 | 0.458 |
| 6 | 15.250 | 1.458 |
| 7 (r) | 15.833 | 1.458 |

Profile 6

| section | z | thickness |
|---|---|---|
| 1 (l) | 0.000 | 1.167 |
| 2 (a) | 0.833 | 1.167 |
| 3 (b) | 4.320 | 1.167 |
| 4 (c) | 7.771 | 1.167 |
| 5 (r) | 9.001 | 1.167 |

1 2 13 1 1 0 4 4 1.0 1.0

```
 VEH: R2 - TOLL ROAD                BRUG(5.75.44)          page   3
                                     date 11/09/2009; time 13:26:00
 Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

 Transverse distribution     1
 Transverse moments          1
 Transverse axial force      1
                     0 = no, 1 = yes
 Number of prest. tendons    0
```



```
 VEH: R2 - TOLL ROAD                BRUG(5.75.44)          page   4
                                     date 11/09/2009; time 13:26:00
 Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

 Length             250.000
 Equivalent length  170.000

 Loadings

 General loadings

      Density concrete      0.156
      Dead load (topping)   1.777

 Dead load (linear)

 Distance linear loads to edge superstructure and magnitude
      Linear load      z         p
           1         0.735     0.441
           2        70.370     0.441

 Live load
      Loading class               90
      Max. numbers of vehicles     1
      Vehicle code                13
      Number of
             - axles               4
             - wheels / axle       4
             - trafficlanes        1
             - u.d.l. lanes        0
             - linear loads        2

 Vehicle axles

      Axle Axle-dist Axle-load
         1     0.000    22.500
         2    14.000    22.500
         3    23.000    22.500
         4    37.000    22.500

 Length wheel  :      0.833

 Wheels per axle

      Wheel  Distance
         1      0.000
         2      1.500
         3      6.000
         4      7.500

 Distance centre of traffic lanes to edge of superstructure
      traffic lane    z
           1         7.667

 Distance between edge of superstructure and centreline vehicle
      - minimum distance     6.667
      - maximum distance    64.438

 Reduction coefficient

         Number         coefficient
         Vehicles     Vehicle    U.D.L.
             1          1.000    1.000
```

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 5
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Loadings (continued)



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 6
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Tolerances

The following values are used to stop the harmonics

| | relative | absolute |
|---|---|---|
| Tolerance vehicle | 0.000 | 0.000 |
| Tolerance selfweight | 0.000 | 0.000 |
| Tolerance topping | 0.000 | 0.000 |

Asked sections 45

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Section : | 1A | 1B | 1C | 1R | 2L | 2A | 2B | 2C | 2R |
| | 3L | 3A | 3B | 3C | 3R | 4L | 4A | 4B | 4C |
| | 4R | 5L | 5A | 5B | 5C | 6A | 6B | 6C | 7A |
| | 7B | 7C | 8L | 8A | 8B | 8C | 9L | 9A | 9B |
| | 9C | 10L | 10A | 10B | 10C | 11L | 11A | 11B | 11C |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 7
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Length 250.000 Equivalent length 170.000

Transverse influence lines

Load on web

| Node | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| 1 | 1.56 | 1.50 | 0.46 | 0.49 |
| 2 | 1.52 | 1.48 | 0.47 | 0.52 |
| | 1.45 | 1.51 | 0.49 | 0.55 |
| 4 | 1.33 | 1.47 | 0.58 | 0.62 |
| | 0.99 | 1.03 | 1.02 | 0.96 |
| 6 | 0.66 | 0.58 | 1.47 | 1.29 |
| | 0.58 | 0.49 | 1.51 | 1.41 |
| 8 | 0.56 | 0.48 | 1.48 | 1.48 |
| 10 | 0.54 | 0.47 | 1.49 | 1.50 |

Transverse loading distributions factors

| web | Traffic lane 1 |
|---|---|
| 1 | 1.532 |
| 2 | 1.485 |
| 3 | 0.467 |
| 4 | 0.516 |

| web | Lineair load 1 | 2 |
|---|---|---|
| 1 | 1.553 | 0.546 |
| 2 | 1.494 | 0.470 |
| 3 | 0.456 | 1.485 |
| 4 | 0.496 | 1.499 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 8
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Selfweight 51 harmonic

| Slab | section | moment | axialforce |
|---|---|---|---|
| 1 | A | -1.31 | 0.31 |
| 1 | B | -3.31 | 0.70 |
| 1 | C | -6.46 | 1.32 |
| 1 | RIGHT | -7.40 | 1.50 |
| 2 | LEFT | -5.00 | 1.59 |
| 2 | A | -4.21 | 1.42 |
| 2 | B | -0.24 | 0.50 |
| 2 | C | 0.21 | 0.35 |
| 2 | RIGHT | -4.11 | 1.02 |
| 3 | LEFT | -6.37 | 0.93 |
| 3 | A | -5.40 | 0.71 |
| 3 | B | 0.17 | -0.60 |
| 3 | C | 1.95 | -1.15 |
| 3 | RIGHT | -6.56 | 0.28 |
| 4 | LEFT | -4.24 | 0.39 |
| 4 | A | -3.48 | 0.23 |
| 4 | B | 0.25 | -0.55 |
| 4 | C | 0.57 | -0.61 |
| 4 | RIGHT | -4.15 | 0.45 |
| 5 | LEFT | -3.32 | 0.74 |
| 5 | A | -2.65 | 0.59 |
| 5 | B | -0.99 | 0.22 |
| 5 | C | -0.16 | 0.04 |
| 6 | A | -1.17 | 0.11 |
| 6 | B | -0.64 | 0.38 |
| 6 | C | 0.81 | 1.12 |
| 7 | A | -0.94 | 0.10 |
| 7 | B | -0.44 | 0.39 |
| 7 | C | 0.79 | 1.26 |
| 8 | TOP | -2.40 | -3.10 |
| 8 | A | -2.33 | -2.70 |
| 8 | B | -2.00 | -0.97 |
| 8 | C | -1.68 | 0.43 |
| 9 | TOP | 2.26 | -3.03 |
| 9 | A | 2.19 | -2.64 |
| 9 | B | 1.90 | -0.95 |
| 9 | C | 1.62 | 0.42 |
| 10 | TOP | -2.32 | -3.10 |
| 10 | A | -2.23 | -2.72 |
| 10 | B | -1.84 | -1.02 |
| 10 | C | -1.45 | 0.38 |
| 11 | TOP | -0.83 | -2.56 |
| 11 | A | -0.59 | -2.22 |
| 11 | B | 0.43 | -0.72 |
| 11 | C | 1.44 | 0.51 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 9
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.1194 | -5.1960 | 0.0007 | 0.0221 |
| 2 | 10.792 | 0.0001 | 0.0061 | 0.0007 | 0.0211 |
| | 18.708 | -0.0006 | 0.0016 | 0.0006 | 0.0219 |
| 4 | 26.625 | -0.0001 | -0.0022 | 0.0004 | 0.0216 |
| | 37.823 | 0.0001 | -0.0037 | 0.0002 | 0.0146 |
| 6 | 49.022 | 0.0000 | -0.0016 | 0.0000 | 0.0075 |
| | 56.938 | 0.0000 | -0.0012 | 0.0000 | 0.0063 |
| 8 | 64.855 | 0.0000 | -0.0012 | 0.0000 | 0.0065 |
| 10 | 71.105 | 0.0000 | -0.0012 | 0.0000 | 0.0061 |
| Area | | -0.2240 | -13.5293 | 0.0204 | 1.0465 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -1.315 | -1.315 | 0.307 | 0.307 |
| Topping | -0.338 | -0.338 | 0.026 | 0.026 |
| Linear loads | -1.968 | -1.968 | 0.012 | 0.012 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.931 | -1.074 | 0.078 | 0.076 |
| Total | -2.690 | -4.695 | 0.424 | 0.421 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
5.21 6.71 11.21 12.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 10
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.1694 | -7.6828 | 0.0017 | 0.0496 |
| 2 | 10.792 | 0.0002 | 0.0128 | 0.0015 | 0.0475 |
| | 18.708 | -0.0015 | 0.0034 | 0.0015 | 0.0491 |
| 4 | 26.625 | -0.0002 | -0.0043 | 0.0008 | 0.0485 |
| | 37.823 | 0.0002 | -0.0075 | 0.0004 | 0.0330 |
| 6 | 49.022 | 0.0000 | -0.0032 | 0.0001 | 0.0174 |
| | 56.938 | 0.0000 | -0.0023 | 0.0000 | 0.0148 |
| 8 | 64.855 | 0.0000 | -0.0024 | 0.0000 | 0.0150 |
| 10 | 71.105 | 0.0000 | -0.0024 | 0.0000 | 0.0144 |
| Area | | -0.6727 | -29.6320 | 0.0474 | 2.3690 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -3.305 | -3.305 | 0.696 | 0.696 |
| Topping | -0.741 | -0.741 | 0.059 | 0.059 |
| Linear loads | -3.065 | -3.065 | 0.028 | 0.028 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.719 | -5.346 | 0.176 | 0.168 |
| Total | -6.392 | -12.457 | 0.959 | 0.951 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
7.71 9.21 13.71 15.21

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 11
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.2136 | -10.1413 | 0.0034 | 0.0927 |
| 2 | 10.792 | 0.0040 | 0.0336 | 0.0051 | 0.0889 |
| | 18.708 | -0.0054 | 0.0089 | 0.0031 | 0.0919 |
| 4 | 26.625 | -0.0005 | -0.0113 | 0.0016 | 0.0908 |
| | 37.823 | 0.0005 | -0.0199 | 0.0007 | 0.0623 |
| 6 | 49.022 | 0.0000 | -0.0086 | 0.0001 | 0.0338 |
| | 56.938 | -0.0001 | -0.0063 | 0.0000 | 0.0291 |
| 8 | 64.855 | 0.0000 | -0.0064 | 0.0000 | 0.0294 |
| 10 | 71.105 | 0.0000 | -0.0066 | 0.0001 | 0.0283 |
| Area | | -1.2086 | -51.9112 | 0.1106 | 4.4750 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -6.457 | -6.457 | 1.315 | 1.315 |
| Topping | -1.297 | -1.297 | 0.112 | 0.112 |
| Linear loads | -4.152 | -4.152 | 0.053 | 0.053 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | -0.006 | -8.798 | 0.006 | 0.441 |
| Total | -11.912 | -20.704 | 1.486 | 1.922 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 12
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section right

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.2240 | -10.7097 | 0.0040 | 0.1055 |
| 2 | 10.792 | 0.0088 | 0.0412 | 0.0078 | 0.1012 |
| | 18.708 | -0.0075 | 0.0110 | 0.0036 | 0.1046 |
| 4 | 26.625 | -0.0006 | -0.0138 | 0.0018 | 0.1033 |
| | 37.823 | 0.0007 | -0.0244 | 0.0008 | 0.0711 |
| 6 | 49.022 | 0.0000 | -0.0106 | 0.0002 | 0.0389 |
| | 56.938 | -0.0001 | -0.0077 | 0.0001 | 0.0335 |
| 8 | 64.855 | -0.0001 | -0.0079 | 0.0001 | 0.0339 |
| 10 | 71.105 | 0.0000 | -0.0081 | 0.0001 | 0.0325 |
| Area | | -1.4021 | -57.9939 | 0.1421 | 5.1051 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -7.404 | -7.404 | 1.501 | 1.501 |
| Topping | -1.449 | -1.449 | 0.128 | 0.128 |
| Linear loads | -4.404 | -4.404 | 0.061 | 0.061 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | -0.007 | -10.791 | 0.007 | 0.612 |
| Total | -13.264 | -24.047 | 1.697 | 2.301 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 13
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section left

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0639 | -2.0814 | 0.0233 | 1.1437 |
| 2 | 10.792 | 0.0314 | 1.7174 | 0.0109 | 0.3465 |
| | 18.708 | -0.0538 | -2.2657 | -0.0017 | -0.1348 |
| 4 | 26.625 | -0.0248 | -1.8502 | -0.0014 | -0.1249 |
| | 37.823 | 0.0002 | -0.3243 | 0.0004 | 0.0133 |
| 6 | 49.022 | 0.0006 | 0.0541 | 0.0000 | 0.0263 |
| | 56.938 | 0.0004 | 0.0839 | -0.0001 | 0.0257 |
| 8 | 64.855 | 0.0005 | 0.0736 | 0.0000 | 0.0258 |
| 10 | 71.105 | 0.0006 | 0.0705 | 0.0000 | 0.0247 |
| Area | | -0.9128 | -34.1181 | 0.1984 | 7.8263 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -5.001 | -5.001 | 1.593 | 1.593 |
| Topping | -0.853 | -0.853 | 0.196 | 0.196 |
| Linear loads | -0.773 | -0.773 | 0.491 | 0.491 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.057 | -5.022 | -0.004 | -0.165 |
| Total | -6.569 | -11.648 | 2.276 | 2.115 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 14
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0573 | -1.9710 | 0.0220 | 1.0885 |
| 2 | 10.792 | 0.0257 | 1.6172 | 0.0080 | 0.3118 |
| | 18.708 | -0.0476 | -1.9467 | -0.0022 | -0.1555 |
| 4 | 26.625 | -0.0228 | -1.6885 | -0.0014 | -0.1326 |
| | 37.823 | -0.0002 | -0.3262 | 0.0005 | 0.0191 |
| 6 | 49.022 | 0.0003 | 0.0215 | 0.0001 | 0.0323 |
| | 56.938 | 0.0001 | 0.0509 | 0.0000 | 0.0314 |
| 8 | 64.855 | 0.0002 | 0.0427 | 0.0000 | 0.0315 |
| 10 | 71.105 | 0.0004 | 0.0406 | 0.0001 | 0.0302 |
| Area | | -0.6971 | -29.3089 | 0.1670 | 7.2074 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -4.212 | -4.212 | 1.422 | 1.422 |
| Topping | -0.732 | -0.732 | 0.180 | 0.180 |
| Linear loads | -0.743 | -0.743 | 0.470 | 0.470 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.548 | -4.439 | 1.153 | -0.205 |
| Total | -5.140 | -10.128 | 3.225 | 1.867 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
5.38 6.88 11.38 12.88

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 15
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0263 | -1.0975 | 0.0131 | 0.6501 |
| 2 | 10.792 | 0.0090 | 0.7240 | 0.0013 | 0.0482 |
| | 18.708 | 0.0011 | 0.7813 | -0.0042 | -0.2983 |
| 4 | 26.625 | -0.0051 | -0.2860 | -0.0006 | -0.1649 |
| | 37.823 | -0.0039 | -0.3163 | 0.0021 | 0.0942 |
| 6 | 49.022 | -0.0023 | -0.2458 | 0.0005 | 0.1015 |
| | 56.938 | -0.0020 | -0.2229 | 0.0002 | 0.0964 |
| 8 | 64.855 | -0.0020 | -0.2129 | 0.0002 | 0.0961 |
| 10 | 71.105 | -0.0019 | -0.2064 | 0.0005 | 0.0927 |
| Area | | -0.0075 | -2.0333 | 0.0777 | 3.7339 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.236 | -0.236 | 0.495 | 0.495 |
| Topping | -0.051 | -0.051 | 0.093 | 0.093 |
| Linear loads | -0.521 | -0.521 | 0.310 | 0.310 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.176 | -0.550 | -0.011 | 0.682 |
| Total | 2.368 | -1.358 | 0.887 | 1.580 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
8.88 10.38 14.88 16.38

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 16
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0151 | -0.7066 | 0.0097 | 0.4630 |
| 2 | 10.792 | 0.0026 | 0.2995 | -0.0004 | -0.0578 |
| | 18.708 | 0.0646 | 2.0541 | -0.0046 | -0.3478 |
| 4 | 26.625 | 0.0035 | 0.3738 | 0.0001 | -0.1630 |
| | 37.823 | -0.0058 | -0.3051 | 0.0031 | 0.1425 |
| 6 | 49.022 | -0.0035 | -0.3679 | 0.0009 | 0.1433 |
| | 56.938 | -0.0030 | -0.3488 | 0.0004 | 0.1357 |
| 8 | 64.855 | -0.0030 | -0.3303 | 0.0004 | 0.1351 |
| 10 | 71.105 | -0.0030 | -0.3198 | 0.0007 | 0.1305 |
| Area | | 0.1121 | 2.1624 | 0.0664 | 3.0643 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.211 | 0.211 | 0.345 | 0.345 |
| Topping | 0.054 | 0.054 | 0.077 | 0.077 |
| Linear loads | -0.423 | -0.423 | 0.246 | 0.246 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.526 | -0.487 | -0.354 | 0.411 |
| Total | 3.368 | -0.646 | 0.314 | 1.079 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 17
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section right

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0200 | 0.7001 | 0.0002 | -0.1045 |
| 2 | 10.792 | -0.0179 | -1.0787 | -0.0045 | -0.3517 |
| | 18.708 | -0.0488 | -1.4979 | -0.0036 | -0.4510 |
| 4 | 26.625 | 0.0401 | 2.6399 | 0.0088 | -0.0949 |
| | 37.823 | -0.0171 | -0.2818 | 0.0081 | 0.3606 |
| 6 | 49.022 | -0.0082 | -0.8249 | 0.0026 | 0.3322 |
| | 56.938 | -0.0064 | -0.8211 | 0.0016 | 0.3145 |
| 8 | 64.855 | -0.0068 | -0.7707 | 0.0015 | 0.3126 |
| 10 | 71.105 | -0.0070 | -0.7442 | 0.0020 | 0.3029 |
| Area | | -0.7325 | -23.8941 | 0.1564 | 4.7481 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -4.108 | -4.108 | 1.016 | 1.016 |
| Topping | -0.597 | -0.597 | 0.119 | 0.119 |
| Linear loads | -0.074 | -0.074 | 0.081 | 0.081 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 1.032 | -4.374 | 1.121 | -0.438 |
| Total | -3.748 | -9.154 | 2.336 | 0.777 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
26.62 28.12 32.62 34.12

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
12.71 14.21 18.71 20.21



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 18
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section left

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0328 | 3.0396 | 0.0026 | 0.2260 |
| 2 | 10.792 | 0.0292 | 3.3115 | 0.0017 | 0.1995 |
| | 18.708 | 0.0206 | 3.5158 | 0.0046 | 0.1308 |
| 4 | 26.625 | 0.0486 | 4.1795 | 0.0093 | 0.0573 |
| | 37.823 | -0.0745 | -3.3134 | 0.0011 | -0.0049 |
| 6 | 49.022 | -0.0398 | -4.0918 | -0.0012 | -0.0560 |
| | 56.938 | -0.0327 | -3.8943 | -0.0016 | -0.0502 |
| 8 | 64.855 | -0.0331 | -3.6848 | -0.0017 | -0.0333 |
| 10 | 71.105 | -0.0333 | -3.5646 | -0.0011 | -0.0318 |
| Area | | -1.0748 | -36.7546 | 0.1168 | 3.3305 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -6.372 | -6.372 | 0.931 | 0.931 |
| Topping | -0.919 | -0.919 | 0.083 | 0.083 |
| Linear loads | -0.230 | -0.230 | 0.085 | 0.085 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.512 | -7.350 | 0.231 | 0.270 |
| Total | -4.008 | -14.870 | 1.330 | 1.369 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 19
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0308 | 2.8891 | 0.0024 | 0.2101 |
| 2 | 10.792 | 0.0278 | 3.1432 | 0.0014 | 0.1842 |
| | 18.708 | 0.0214 | 3.3328 | 0.0040 | 0.1172 |
| 4 | 26.625 | 0.0425 | 3.9696 | 0.0066 | 0.0457 |
| | 37.823 | -0.0688 | -3.0233 | 0.0008 | -0.0147 |
| 6 | 49.022 | -0.0378 | -3.8805 | -0.0012 | -0.0640 |
| | 56.938 | -0.0312 | -3.7048 | -0.0016 | -0.0568 |
| 8 | 64.855 | -0.0315 | -3.5049 | -0.0017 | -0.0385 |
| 10 | 71.105 | -0.0317 | -3.3912 | -0.0012 | -0.0366 |
| Area | | -0.8553 | -30.9189 | 0.0832 | 2.5906 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -5.399 | -5.399 | 0.713 | 0.713 |
| Topping | -0.773 | -0.773 | 0.065 | 0.065 |
| Linear loads | -0.220 | -0.220 | 0.076 | 0.076 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.750 | -6.758 | 0.670 | 0.017 |
| Total | -2.641 | -13.149 | 1.523 | 0.871 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
19.71 21.21 25.71 27.21

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
36.32 37.82 42.32 43.82



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 20
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0158 | 1.5022 | 0.0011 | 0.1030 |
| 2 | 10.792 | 0.0145 | 1.6370 | 0.0000 | 0.0810 |
| | 18.708 | 0.0121 | 1.7245 | 0.0013 | 0.0273 |
| 4 | 26.625 | 0.0212 | 2.1576 | 0.0017 | -0.0287 |
| | 37.823 | -0.0202 | -0.5094 | -0.0009 | -0.0738 |
| 6 | 49.022 | -0.0198 | -2.0256 | -0.0013 | -0.1079 |
| | 56.938 | -0.0176 | -2.0372 | -0.0017 | -0.0877 |
| 8 | 64.855 | -0.0173 | -1.9225 | -0.0022 | -0.0583 |
| 10 | 71.105 | -0.0173 | -1.8656 | -0.0015 | -0.0535 |
| Area | | 0.0889 | 5.0823 | -0.0269 | -1.8948 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.167 | 0.167 | -0.598 | -0.598 |
| Topping | 0.127 | 0.127 | -0.047 | -0.047 |
| Linear loads | -0.159 | -0.159 | 0.021 | 0.021 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 4.214 | -2.459 | 0.142 | -0.166 |
| Total | 4.348 | -2.325 | -0.482 | -0.790 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
24.71 26.21 30.71 32.21

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
41.94 43.44 47.94 49.44

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 21
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0004 | -0.1191 | 0.0002 | 0.0280 |
| 2 | 10.792 | -0.0010 | -0.1035 | -0.0008 | 0.0105 |
| | 18.708 | -0.0022 | -0.1195 | -0.0002 | -0.0302 |
| 4 | 26.625 | 0.0010 | 0.1003 | 0.0000 | -0.0706 |
| | 37.823 | 0.0741 | 2.3293 | -0.0015 | -0.0982 |
| 6 | 49.022 | 0.0009 | 0.0980 | -0.0007 | -0.1147 |
| | 56.938 | -0.0023 | -0.1223 | -0.0013 | -0.0796 |
| 8 | 64.855 | -0.0011 | -0.1064 | -0.0021 | -0.0377 |
| 10 | 71.105 | -0.0007 | -0.1160 | -0.0014 | -0.0303 |
| Area | | 0.4673 | 15.6910 | -0.0626 | -3.8705 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 1.952 | 1.952 | -1.149 | -1.149 |
| Topping | 0.392 | 0.392 | -0.097 | -0.097 |
| Linear loads | -0.103 | -0.103 | -0.002 | -0.002 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 4.622 | -0.206 | -0.136 | -0.180 |
| Total | 6.864 | 2.035 | -1.384 | -1.428 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
55.44 56.94 61.44 62.94



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 22
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section right

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0319 | -3.3222 | -0.0002 | -0.0080 |
| 2 | 10.792 | -0.0317 | -3.5347 | -0.0009 | -0.0144 |
| | 18.708 | -0.0314 | -3.7502 | -0.0010 | -0.0304 |
| 4 | 26.625 | -0.0386 | -3.9542 | -0.0008 | -0.0417 |
| | 37.823 | -0.0733 | -3.1837 | 0.0009 | -0.0311 |
| 6 | 49.022 | 0.0498 | 4.3122 | 0.0083 | -0.0098 |
| | 56.938 | 0.0219 | 3.6540 | 0.0031 | 0.0595 |
| 8 | 64.855 | 0.0305 | 3.4553 | -0.0001 | 0.1299 |
| 10 | 71.105 | 0.0329 | 3.2995 | 0.0005 | 0.1423 |
| Area | | -1.2812 | -56.8201 | 0.0770 | 0.5596 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -6.559 | -6.559 | 0.278 | 0.278 |
| Topping | -1.420 | -1.420 | 0.014 | 0.014 |
| Linear loads | -0.008 | -0.008 | 0.058 | 0.058 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.564 | -7.217 | 0.718 | 0.218 |
| Total | -4.423 | -15.204 | 1.069 | 0.568 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
49.02 50.52 55.02 56.52

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
36.32 37.82 42.32 43.82

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 23
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section left

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0070 | -0.7048 | 0.0028 | 0.3023 |
| 2 | 10.792 | -0.0066 | -0.7511 | 0.0020 | 0.3157 |
| | 18.708 | -0.0063 | -0.8026 | 0.0020 | 0.3191 |
| 4 | 26.625 | -0.0081 | -0.8078 | 0.0028 | 0.3318 |
| | 37.823 | -0.0170 | -0.2666 | 0.0077 | 0.3205 |
| 6 | 49.022 | 0.0402 | 2.6556 | 0.0077 | -0.1761 |
| | 56.938 | -0.0488 | -1.4800 | -0.0053 | -0.5367 |
| 8 | 64.855 | -0.0179 | -1.0586 | -0.0064 | -0.4362 |
| 10 | 71.105 | 0.0051 | -0.0286 | -0.0036 | -0.2961 |
| Area | | -0.8129 | -27.4386 | 0.1350 | 4.1401 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -4.237 | -4.237 | 0.389 | 0.389 |
| Topping | -0.686 | -0.686 | 0.103 | 0.103 |
| Linear loads | -0.378 | -0.378 | -0.004 | -0.004 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 1.042 | -4.375 | 1.014 | -0.638 |
| Total | -4.259 | -9.675 | 1.502 | -0.151 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
41.52 43.02 47.52 49.02

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
55.44 56.94 61.44 62.94



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 24
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0066 | -0.6676 | 0.0026 | 0.2858 |
| 2 | 10.792 | -0.0062 | -0.7112 | 0.0019 | 0.2985 |
| | 18.708 | -0.0060 | -0.7597 | 0.0019 | 0.3017 |
| 4 | 26.625 | -0.0076 | -0.7664 | 0.0026 | 0.3137 |
| | 37.823 | -0.0150 | -0.2661 | 0.0072 | 0.3004 |
| 6 | 49.022 | 0.0340 | 2.4825 | 0.0050 | -0.1848 |
| | 56.938 | -0.0431 | -1.2279 | -0.0056 | -0.5329 |
| 8 | 64.855 | -0.0165 | -0.9694 | -0.0062 | -0.4183 |
| 10 | 71.105 | 0.0042 | -0.0602 | -0.0031 | -0.2667 |
| Area | | -0.6105 | -22.9581 | 0.1028 | 3.5047 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -3.477 | -3.477 | 0.230 | 0.230 |
| Topping | -0.574 | -0.574 | 0.088 | 0.088 |
| Linear loads | -0.369 | -0.369 | 0.001 | 0.001 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 1.975 | -3.853 | 0.617 | -0.660 |
| Total | -2.445 | -8.274 | 0.935 | -0.342 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
43.61 45.11 49.61 51.11

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
55.44 56.94 61.44 62.94

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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0039 | -0.4083 | 0.0015 | 0.1673 |
| 2 | 10.792 | -0.0038 | -0.4341 | 0.0010 | 0.1747 |
| | 18.708 | -0.0038 | -0.4619 | 0.0010 | 0.1766 |
| 4 | 26.625 | -0.0046 | -0.4777 | 0.0014 | 0.1824 |
| | 37.823 | -0.0078 | -0.2813 | 0.0038 | 0.1552 |
| 6 | 49.022 | 0.0123 | 1.0477 | -0.0001 | -0.2303 |
| | 56.938 | 0.0026 | 1.0084 | -0.0064 | -0.4692 |
| 8 | 64.855 | -0.0037 | -0.1090 | -0.0039 | -0.2340 |
| 10 | 71.105 | -0.0038 | -0.2197 | 0.0013 | 0.0181 |
| Area | | 0.0472 | 1.2065 | 0.0067 | -0.0249 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.246 | 0.246 | -0.551 | -0.551 |
| Topping | 0.030 | 0.030 | -0.001 | -0.001 |
| Linear loads | -0.272 | -0.272 | 0.069 | 0.069 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.511 | -0.772 | -0.199 | 0.316 |
| Total | 3.515 | -0.768 | -0.682 | -0.167 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
47.11 48.61 53.11 54.61

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
30.32 31.82 36.32 37.82



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 26
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0028 | -0.2983 | 0.0011 | 0.1231 |
| 2 | 10.792 | -0.0028 | -0.3169 | 0.0007 | 0.1286 |
| | 18.708 | -0.0028 | -0.3360 | 0.0007 | 0.1301 |
| 4 | 26.625 | -0.0034 | -0.3555 | 0.0010 | 0.1333 |
| | 37.823 | -0.0057 | -0.2932 | 0.0027 | 0.1016 |
| 6 | 49.022 | 0.0037 | 0.3861 | -0.0010 | -0.2354 |
| | 56.938 | 0.0647 | 2.0669 | -0.0062 | -0.4228 |
| 8 | 64.855 | 0.0028 | 0.3127 | -0.0024 | -0.1309 |
| 10 | 71.105 | -0.0079 | -0.2700 | 0.0038 | 0.1683 |
| Area | | 0.1588 | 3.8829 | -0.0070 | -0.6754 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.572 | 0.572 | -0.613 | -0.613 |
| Topping | 0.097 | 0.097 | -0.017 | -0.017 |
| Linear loads | -0.221 | -0.221 | 0.113 | 0.113 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.540 | -0.569 | -0.524 | 0.241 |
| Total | 3.988 | -0.122 | -1.040 | -0.276 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
50.94 52.44 56.94 58.44

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 27
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section right

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0008 | 0.0774 | 0.0001 | 0.0133 |
| 2 | 10.792 | 0.0006 | 0.0824 | 0.0000 | 0.0138 |
| | 18.708 | 0.0004 | 0.0927 | 0.0000 | 0.0140 |
| 4 | 26.625 | 0.0006 | 0.0632 | 0.0000 | 0.0117 |
| | 37.823 | 0.0003 | -0.3142 | 0.0000 | -0.0201 |
| 6 | 49.022 | -0.0246 | -1.8396 | -0.0022 | -0.1771 |
| | 56.938 | -0.0535 | -2.2566 | -0.0031 | -0.1879 |
| 8 | 64.855 | 0.0318 | 1.7251 | 0.0093 | 0.2952 |
| 10 | 71.105 | -0.0359 | -0.4746 | 0.0167 | 0.7556 |
| Area | | -0.6824 | -27.3290 | 0.0667 | 1.2828 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -4.150 | -4.150 | 0.447 | 0.447 |
| Topping | -0.683 | -0.683 | 0.032 | 0.032 |
| Linear loads | -0.061 | -0.061 | 0.315 | 0.315 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.079 | -4.997 | 0.006 | -0.307 |
| Total | -4.815 | -9.891 | 0.800 | 0.487 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
50.94 52.44 56.94 58.44



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 28
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section left

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0000 | -0.0082 | 0.0002 | 0.0188 |
| 2 | 10.792 | -0.0001 | -0.0079 | 0.0001 | 0.0199 |
| | 18.708 | -0.0001 | -0.0078 | 0.0001 | 0.0199 |
| 4 | 26.625 | 0.0000 | -0.0105 | 0.0001 | 0.0223 |
| | 37.823 | 0.0007 | -0.0235 | 0.0004 | 0.0358 |
| 6 | 49.022 | -0.0005 | -0.0131 | 0.0010 | 0.0491 |
| | 56.938 | -0.0075 | 0.0106 | 0.0022 | 0.0495 |
| 8 | 64.855 | 0.0089 | 0.0395 | 0.0060 | 0.0480 |
| 10 | 71.105 | -0.1463 | -6.1883 | 0.0026 | 0.0489 |
| Area | | -0.5810 | -19.6705 | 0.0820 | 2.4121 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -3.319 | -3.319 | 0.738 | 0.738 |
| Topping | -0.492 | -0.492 | 0.060 | 0.060 |
| Linear loads | -2.410 | -2.410 | 0.030 | 0.030 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | -0.006 | -4.541 | 0.014 | 0.476 |
| Total | -6.226 | -10.761 | 0.842 | 1.304 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 29
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0000 | -0.0066 | 0.0001 | 0.0150 |
| 2 | 10.792 | -0.0001 | -0.0064 | 0.0001 | 0.0159 |
| | 18.708 | -0.0001 | -0.0063 | 0.0001 | 0.0159 |
| 4 | 26.625 | 0.0000 | -0.0085 | 0.0001 | 0.0178 |
| | 37.823 | 0.0005 | -0.0190 | 0.0003 | 0.0287 |
| 6 | 49.022 | -0.0004 | -0.0107 | 0.0008 | 0.0394 |
| | 56.938 | -0.0054 | 0.0085 | 0.0017 | 0.0398 |
| 8 | 64.855 | 0.0038 | 0.0317 | 0.0034 | 0.0385 |
| 10 | 71.105 | -0.1344 | -5.6171 | 0.0017 | 0.0392 |
| Area | | -0.4428 | -16.1735 | 0.0555 | 1.9328 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -2.648 | -2.648 | 0.591 | 0.591 |
| Topping | -0.404 | -0.404 | 0.048 | 0.048 |
| Linear loads | -2.157 | -2.157 | 0.024 | 0.024 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | -0.005 | -3.219 | 0.011 | 0.293 |
| Total | -5.214 | -8.428 | 0.674 | 0.956 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 30
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0000 | -0.0027 | 0.0000 | 0.0056 |
| 2 | 10.792 | 0.0000 | -0.0026 | 0.0000 | 0.0060 |
| | 18.708 | 0.0000 | -0.0026 | 0.0000 | 0.0059 |
| 4 | 26.625 | 0.0000 | -0.0034 | 0.0000 | 0.0067 |
| | 37.823 | 0.0002 | -0.0076 | 0.0001 | 0.0109 |
| 6 | 49.022 | -0.0002 | -0.0044 | 0.0003 | 0.0151 |
| | 56.938 | -0.0017 | 0.0032 | 0.0006 | 0.0152 |
| 8 | 64.855 | 0.0000 | 0.0124 | 0.0005 | 0.0147 |
| 10 | 71.105 | -0.1014 | -3.6473 | 0.0004 | 0.0150 |
| Area | | -0.1665 | -6.7764 | 0.0145 | 0.7347 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.988 | -0.988 | 0.225 | 0.225 |
| Topping | -0.169 | -0.169 | 0.018 | 0.018 |
| Linear loads | -1.286 | -1.286 | 0.009 | 0.009 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.663 | -0.002 | 0.055 | 0.004 |
| Total | -1.780 | -2.445 | 0.307 | 0.256 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
59.94 61.44 65.94 67.44

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 31
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0000 | -0.0007 | 0.0000 | 0.0010 |
| 2 | 10.792 | 0.0000 | -0.0007 | 0.0000 | 0.0011 |
| | 18.708 | 0.0000 | -0.0007 | 0.0000 | 0.0011 |
| 4 | 26.625 | 0.0000 | -0.0009 | 0.0000 | 0.0012 |
| | 37.823 | 0.0000 | -0.0020 | 0.0000 | 0.0021 |
| 6 | 49.022 | 0.0000 | -0.0012 | 0.0001 | 0.0028 |
| | 56.938 | -0.0004 | 0.0008 | 0.0001 | 0.0029 |
| 8 | 64.855 | -0.0001 | 0.0032 | 0.0001 | 0.0028 |
| 10 | 71.105 | -0.0635 | -1.6618 | 0.0001 | 0.0028 |
| Area | | -0.0249 | -1.4055 | 0.0024 | 0.1382 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.160 | -0.160 | 0.042 | 0.042 |
| Topping | -0.035 | -0.035 | 0.003 | 0.003 |
| Linear loads | -0.409 | -0.409 | 0.002 | 0.002 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.197 | -0.035 | 0.008 | 0.011 |
| Total | -0.407 | -0.640 | 0.055 | 0.059 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
53.27 54.77 59.27 60.77



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 32
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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 6 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0108 | 0.7395 | -0.0177 | -0.9760 |
| 2 | 10.792 | 0.0065 | 0.5275 | -0.0025 | -0.2044 |
| | 18.708 | 0.0006 | 0.1225 | 0.0055 | 0.2642 |
| 4 | 26.625 | -0.0035 | -0.2100 | 0.0034 | 0.2377 |
| | 37.823 | -0.0031 | -0.2263 | 0.0003 | 0.0520 |
| 6 | 49.022 | -0.0017 | -0.1784 | 0.0001 | 0.0050 |
| | 56.938 | -0.0015 | -0.1624 | 0.0000 | 0.0006 |
| 8 | 64.855 | -0.0014 | -0.1550 | 0.0000 | 0.0013 |
| 10 | 71.105 | -0.0014 | -0.1501 | 0.0000 | 0.0013 |
| Area | | 0.0115 | 0.6817 | -0.0372 | -1.9956 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -1.167 | -1.167 | 0.109 | 0.109 |
| Topping | 0.017 | 0.017 | -0.050 | -0.050 |
| Linear loads | 0.253 | 0.253 | -0.407 | -0.407 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.940 | -0.413 | -0.977 | 0.260 |
| Total | 0.044 | -1.309 | -1.324 | -0.087 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
26.21 27.71 32.21 33.71

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date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 6 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0091 | 0.6475 | -0.0158 | -0.8732 |
| 2 | 10.792 | 0.0056 | 0.4546 | -0.0013 | -0.1381 |
| | 18.708 | 0.0006 | 0.0999 | 0.0061 | 0.3022 |
| 4 | 26.625 | -0.0030 | -0.1845 | 0.0036 | 0.2492 |
| | 37.823 | -0.0027 | -0.1940 | 0.0001 | 0.0383 |
| 6 | 49.022 | -0.0015 | -0.1519 | -0.0001 | -0.0107 |
| | 56.938 | -0.0012 | -0.1382 | -0.0001 | -0.0142 |
| 8 | 64.855 | -0.0012 | -0.1319 | -0.0001 | -0.0127 |
| 10 | 71.105 | -0.0012 | -0.1278 | -0.0001 | -0.0123 |
| Area | | 0.0093 | 0.6247 | -0.0142 | -0.9973 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.637 | -0.637 | 0.381 | 0.381 |
| Topping | 0.016 | 0.016 | -0.025 | -0.025 |
| Linear loads | 0.223 | 0.223 | -0.368 | -0.368 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.793 | -0.352 | -0.801 | 0.266 |
| Total | 0.395 | -0.750 | -0.813 | 0.254 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
26.21 27.71 32.21 33.71



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date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 6 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0009 | 0.0420 | -0.0061 | -0.2763 |
| 2 | 10.792 | -0.0002 | -0.0178 | 0.0036 | 0.2282 |
| | 18.708 | -0.0007 | -0.0482 | 0.0086 | 0.4840 |
| 4 | 26.625 | -0.0002 | -0.0221 | 0.0040 | 0.2596 |
| | 37.823 | 0.0003 | 0.0182 | -0.0019 | -0.0979 |
| 6 | 49.022 | 0.0002 | 0.0219 | -0.0014 | -0.1453 |
| | 56.938 | 0.0002 | 0.0208 | -0.0012 | -0.1398 |
| 8 | 64.855 | 0.0002 | 0.0197 | -0.0012 | -0.1321 |
| 10 | 71.105 | 0.0002 | 0.0191 | -0.0012 | -0.1279 |
| Area | | 0.0049 | 0.2468 | 0.0479 | 2.0068 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.813 | 0.813 | 1.119 | 1.119 |
| Topping | 0.006 | 0.006 | 0.050 | 0.050 |
| Linear loads | 0.025 | 0.025 | -0.163 | -0.163 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.028 | -0.062 | -0.024 | 0.815 |
| Total | 0.873 | 0.782 | 0.982 | 1.821 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 35
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 7 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0017 | 0.1749 | -0.0028 | -0.2932 |
| 2 | 10.792 | 0.0017 | 0.1860 | -0.0028 | -0.3118 |
| | 18.708 | 0.0017 | 0.1962 | -0.0028 | -0.3302 |
| 4 | 26.625 | 0.0021 | 0.2146 | -0.0034 | -0.3525 |
| | 37.823 | 0.0040 | 0.2535 | -0.0062 | -0.3279 |
| 6 | 49.022 | 0.0030 | 0.1543 | 0.0012 | 0.1791 |
| | 56.938 | -0.0025 | -0.2306 | 0.0083 | 0.5951 |
| 8 | 64.855 | -0.0070 | -0.5746 | 0.0062 | 0.5493 |
| 10 | 71.105 | -0.0079 | -0.6282 | 0.0037 | 0.4098 |
| Area | | 0.0401 | 2.8604 | -0.0382 | -2.7760 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.937 | -0.937 | 0.098 | 0.098 |
| Topping | 0.071 | 0.071 | -0.069 | -0.069 |
| Linear loads | -0.197 | -0.197 | 0.058 | 0.058 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.467 | -0.737 | -0.575 | 0.721 |
| Total | -0.595 | -1.799 | -0.488 | 0.808 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
37.44 38.94 43.44 44.94

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 36
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 7 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0014 | 0.1530 | -0.0025 | -0.2658 |
| 2 | 10.792 | 0.0015 | 0.1627 | -0.0026 | -0.2826 |
| | 18.708 | 0.0015 | 0.1716 | -0.0026 | -0.2993 |
| 4 | 26.625 | 0.0018 | 0.1878 | -0.0031 | -0.3190 |
| | 37.823 | 0.0033 | 0.2223 | -0.0054 | -0.2902 |
| 6 | 49.022 | 0.0025 | 0.1314 | 0.0020 | 0.1976 |
| | 56.938 | -0.0021 | -0.2052 | 0.0086 | 0.5888 |
| 8 | 64.855 | -0.0060 | -0.4993 | 0.0060 | 0.5156 |
| 10 | 71.105 | -0.0068 | -0.5419 | 0.0031 | 0.3555 |
| Area | | 0.0338 | 2.4948 | -0.0132 | -1.6241 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.441 | -0.441 | 0.386 | 0.386 |
| Topping | 0.062 | 0.062 | -0.041 | -0.041 |
| Linear loads | -0.169 | -0.169 | 0.047 | 0.047 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.390 | -0.632 | -0.475 | 0.701 |
| Total | -0.158 | -1.180 | -0.082 | 1.093 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
37.44 38.94 43.44 44.94

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 37
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 7 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0002 | 0.0178 | -0.0011 | -0.1190 |
| 2 | 10.792 | 0.0002 | 0.0189 | -0.0011 | -0.1264 |
| | 18.708 | 0.0002 | 0.0200 | -0.0011 | -0.1343 |
| 4 | 26.625 | 0.0002 | 0.0212 | -0.0013 | -0.1400 |
| | 37.823 | 0.0003 | 0.0176 | -0.0019 | -0.0927 |
| 6 | 49.022 | -0.0002 | -0.0228 | 0.0040 | 0.2650 |
| | 56.938 | -0.0007 | -0.0489 | 0.0086 | 0.4895 |
| 8 | 64.855 | -0.0002 | -0.0185 | 0.0036 | 0.2338 |
| 10 | 71.105 | 0.0005 | 0.0161 | -0.0022 | -0.0584 |
| Area | | 0.0023 | 0.1480 | 0.0649 | 2.5949 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.793 | 0.793 | 1.258 | 1.258 |
| Topping | 0.004 | 0.004 | 0.065 | 0.065 |
| Linear loads | 0.013 | 0.013 | -0.063 | -0.063 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.034 | -0.063 | -0.191 | 0.821 |
| Total | 0.844 | 0.747 | 1.068 | 2.081 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
50.94 52.44 56.94 58.44



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 38
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section top

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.1601 | -8.6282 | -0.0303 | -1.1633 |
| 2 | 10.792 | -0.0227 | -1.6762 | -0.0592 | -0.8153 |
| | 18.708 | 0.0462 | 2.2767 | -0.0153 | -0.5432 |
| 4 | 26.625 | 0.0243 | 1.8364 | -0.0037 | -0.2814 |
| | 37.823 | 0.0005 | 0.2999 | 0.0009 | -0.0043 |
| 6 | 49.022 | -0.0006 | -0.0647 | 0.0005 | 0.0527 |
| | 56.938 | -0.0005 | -0.0917 | 0.0004 | 0.0543 |
| 8 | 64.855 | -0.0006 | -0.0815 | 0.0004 | 0.0507 |
| 10 | 71.105 | -0.0007 | -0.0786 | 0.0005 | 0.0489 |
| Area | | -0.4889 | -23.8760 | -0.7704 | -19.2456 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -2.403 | -2.403 | -3.099 | -3.099 |
| Topping | -0.597 | -0.597 | -0.481 | -0.481 |
| Linear loads | -3.631 | -3.631 | -0.481 | -0.481 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 4.392 | -9.101 | -1.403 | -5.015 |
| Total | -2.239 | -15.732 | -5.463 | -9.075 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 39
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.1424 | -7.7559 | -0.0274 | -1.0639 |
| 2 | 10.792 | -0.0200 | -1.4683 | -0.0484 | -0.7459 |
| | 18.708 | 0.0410 | 2.0780 | -0.0136 | -0.4933 |
| 4 | 26.625 | 0.0215 | 1.6448 | -0.0034 | -0.2502 |
| | 37.823 | 0.0001 | 0.2493 | 0.0009 | 0.0017 |
| 6 | 49.022 | -0.0007 | -0.0763 | 0.0005 | 0.0523 |
| | 56.938 | -0.0006 | -0.0991 | 0.0004 | 0.0534 |
| 8 | 64.855 | -0.0007 | -0.0891 | 0.0004 | 0.0498 |
| 10 | 71.105 | -0.0008 | -0.0860 | 0.0005 | 0.0481 |
| Area | | -0.4335 | -21.6002 | -0.6570 | -17.3393 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -2.326 | -2.326 | -2.705 | -2.705 |
| Topping | -0.540 | -0.540 | -0.433 | -0.433 |
| Linear loads | -3.270 | -3.270 | -0.438 | -0.438 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.889 | -7.920 | -1.239 | -4.258 |
| Total | -2.246 | -14.055 | -4.816 | -7.834 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 40
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0739 | -4.1078 | -0.0150 | -0.6401 |
| 2 | 10.792 | -0.0083 | -0.5993 | -0.0171 | -0.4484 |
| | 18.708 | 0.0226 | 1.2473 | -0.0067 | -0.2780 |
| 4 | 26.625 | 0.0105 | 0.8451 | -0.0016 | -0.1145 |
| | 37.823 | -0.0013 | 0.0385 | 0.0008 | 0.0299 |
| 6 | 49.022 | -0.0012 | -0.1252 | 0.0005 | 0.0525 |
| | 56.938 | -0.0010 | -0.1307 | 0.0004 | 0.0511 |
| 8 | 64.855 | -0.0010 | -0.1216 | 0.0004 | 0.0480 |
| 10 | 71.105 | -0.0011 | -0.1177 | 0.0004 | 0.0464 |
| Area | | -0.2321 | -12.0769 | -0.2746 | -9.0797 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -2.001 | -2.001 | -0.973 | -0.973 |
| Topping | -0.302 | -0.302 | -0.227 | -0.227 |
| Linear loads | -1.758 | -1.758 | -0.256 | -0.256 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 2.094 | -3.884 | -0.599 | -1.809 |
| Total | -1.966 | -7.945 | -2.055 | -3.265 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.21 18.71 23.21 24.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 41
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0101 | -0.4986 | -0.0044 | -0.2327 |
| 2 | 10.792 | 0.0031 | 0.2604 | -0.0037 | -0.1666 |
| | 18.708 | 0.0062 | 0.4264 | -0.0015 | -0.0824 |
| 4 | 26.625 | -0.0001 | 0.0560 | 0.0000 | -0.0020 |
| | 37.823 | -0.0028 | -0.1693 | 0.0006 | 0.0400 |
| 6 | 49.022 | -0.0017 | -0.1744 | 0.0004 | 0.0395 |
| | 56.938 | -0.0014 | -0.1632 | 0.0003 | 0.0368 |
| 8 | 64.855 | -0.0014 | -0.1549 | 0.0003 | 0.0350 |
| 10 | 71.105 | -0.0014 | -0.1500 | 0.0003 | 0.0338 |
| Area | | -0.0493 | -2.6496 | -0.0525 | -1.9673 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -1.679 | -1.679 | 0.426 | 0.426 |
| Topping | -0.066 | -0.066 | -0.049 | -0.049 |
| Linear loads | -0.264 | -0.264 | -0.086 | -0.086 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.579 | -0.228 | -0.187 | -0.456 |
| Total | -1.429 | -2.237 | 0.104 | -0.165 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
14.88 16.38 20.88 22.38

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 42
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section top

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0128 | -2.3394 | 0.0077 | 0.4619 |
| 2 | 10.792 | -0.0471 | -4.3902 | 0.0000 | 0.1349 |
| | 18.708 | -0.0693 | -5.0137 | -0.0121 | -0.1185 |
| 4 | 26.625 | -0.0084 | -1.5396 | -0.0561 | -0.3438 |
| | 37.823 | 0.0574 | 3.0316 | -0.0137 | -0.4991 |
| 6 | 49.022 | 0.0316 | 3.2669 | -0.0043 | -0.4351 |
| | 56.938 | 0.0263 | 3.0732 | -0.0032 | -0.4004 |
| 8 | 64.855 | 0.0263 | 2.9141 | -0.0034 | -0.3789 |
| 10 | 71.105 | 0.0263 | 2.8204 | -0.0035 | -0.3651 |
| Area | | 0.3417 | 12.8603 | -0.7642 | -17.4619 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 2.264 | 2.264 | -3.027 | -3.027 |
| Topping | 0.321 | 0.321 | -0.436 | -0.436 |
| Linear loads | 0.155 | 0.155 | 0.032 | 0.032 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 5.868 | -7.047 | -2.204 | -1.014 |
| Total | 8.609 | -4.307 | -5.635 | -4.445 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
12.71 14.21 18.71 20.21

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 43
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0109 | -2.0538 | 0.0071 | 0.4330 |
| 2 | 10.792 | -0.0419 | -3.9234 | 0.0001 | 0.1339 |
| | 18.708 | -0.0616 | -4.5234 | -0.0106 | -0.1022 |
| 4 | 26.625 | -0.0080 | -1.4098 | -0.0453 | -0.3125 |
| | 37.823 | 0.0510 | 2.7247 | -0.0124 | -0.4551 |
| 6 | 49.022 | 0.0284 | 2.9381 | -0.0039 | -0.3971 |
| | 56.938 | 0.0237 | 2.7637 | -0.0029 | -0.3657 |
| 8 | 64.855 | 0.0237 | 2.6206 | -0.0031 | -0.3462 |
| 10 | 71.105 | 0.0237 | 2.5365 | -0.0032 | -0.3337 |
| Area | | 0.3044 | 11.6980 | -0.6490 | -15.7178 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 2.194 | 2.194 | -2.644 | -2.644 |
| Topping | 0.292 | 0.292 | -0.393 | -0.393 |
| Linear loads | 0.161 | 0.161 | 0.034 | 0.034 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 5.138 | -6.262 | -1.936 | -0.879 |
| Total | 7.785 | -3.614 | -4.939 | -3.882 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
12.71 14.21 18.71 20.21



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 44
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0027 | -0.8693 | 0.0048 | 0.3131 |
| 2 | 10.792 | -0.0206 | -1.9821 | 0.0007 | 0.1311 |
| | 18.708 | -0.0330 | -2.4843 | -0.0047 | -0.0311 |
| 4 | 26.625 | -0.0061 | -0.8769 | -0.0147 | -0.1778 |
| | 37.823 | 0.0263 | 1.4415 | -0.0067 | -0.2659 |
| 6 | 49.022 | 0.0151 | 1.5736 | -0.0023 | -0.2325 |
| | 56.938 | 0.0127 | 1.4812 | -0.0017 | -0.2145 |
| 8 | 64.855 | 0.0127 | 1.4044 | -0.0018 | -0.2035 |
| 10 | 71.105 | 0.0126 | 1.3595 | -0.0019 | -0.1963 |
| Area | | 0.1652 | 6.8052 | -0.2655 | -8.1213 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 1.903 | 1.903 | -0.950 | -0.950 |
| Topping | 0.170 | 0.170 | -0.203 | -0.203 |
| Linear loads | 0.185 | 0.185 | 0.046 | 0.046 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 2.610 | -3.285 | -0.629 | -0.364 |
| Total | 4.868 | -1.027 | -1.737 | -1.471 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
36.32 37.82 42.32 43.82

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
12.71 14.21 18.71 20.21

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 45
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0058 | 0.2929 | 0.0023 | 0.1644 |
| 2 | 10.792 | 0.0001 | -0.0725 | 0.0010 | 0.1003 |
| | 18.708 | -0.0065 | -0.4779 | -0.0007 | 0.0178 |
| 4 | 26.625 | -0.0041 | -0.3593 | -0.0028 | -0.0592 |
| | 37.823 | 0.0034 | 0.1720 | -0.0019 | -0.0894 |
| 6 | 49.022 | 0.0022 | 0.2344 | -0.0008 | -0.0772 |
| | 56.938 | 0.0019 | 0.2241 | -0.0006 | -0.0712 |
| 8 | 64.855 | 0.0019 | 0.2119 | -0.0006 | -0.0676 |
| 10 | 71.105 | 0.0019 | 0.2052 | -0.0006 | -0.0654 |
| Area | | 0.0387 | 1.9346 | -0.0495 | -1.6343 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 1.615 | 1.615 | 0.425 | 0.425 |
| Topping | 0.048 | 0.048 | -0.041 | -0.041 |
| Linear loads | 0.209 | 0.209 | 0.042 | 0.042 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.268 | -0.654 | 0.171 | -0.220 |
| Total | 2.140 | 1.219 | 0.596 | 0.205 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
2.92 4.42 8.92 10.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
19.54 21.04 25.54 27.04



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 46
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section top

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0249 | -2.6174 | -0.0034 | -0.3405 |
| 2 | 10.792 | -0.0251 | -2.7836 | -0.0032 | -0.3648 |
| | 18.708 | -0.0251 | -2.9476 | -0.0030 | -0.3870 |
| 4 | 26.625 | -0.0305 | -3.1463 | -0.0042 | -0.4222 |
| | 37.823 | -0.0563 | -2.9171 | -0.0136 | -0.4869 |
| 6 | 49.022 | 0.0095 | 1.6567 | -0.0560 | -0.3312 |
| | 56.938 | 0.0705 | 5.1339 | -0.0120 | -0.1051 |
| 8 | 64.855 | 0.0484 | 4.5139 | 0.0001 | 0.1490 |
| 10 | 71.105 | 0.0278 | 3.3281 | 0.0048 | 0.3386 |
| Area | | -0.4678 | -29.3814 | -0.7998 | -19.9339 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -2.322 | -2.322 | -3.105 | -3.105 |
| Topping | -0.734 | -0.734 | -0.498 | -0.498 |
| Linear loads | 0.370 | 0.370 | -0.011 | -0.011 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 7.192 | -5.748 | -1.003 | -2.192 |
| Total | 4.505 | -8.435 | -4.617 | -5.806 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
55.44 56.94 61.44 62.94

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
36.32 37.82 42.32 43.82

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 47
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0224 | -2.3542 | -0.0031 | -0.3113 |
| 2 | 10.792 | -0.0226 | -2.5035 | -0.0030 | -0.3334 |
| | 18.708 | -0.0226 | -2.6509 | -0.0028 | -0.3534 |
| 4 | 26.625 | -0.0274 | -2.8299 | -0.0038 | -0.3854 |
| | 37.823 | -0.0500 | -2.6220 | -0.0123 | -0.4441 |
| 6 | 49.022 | 0.0090 | 1.5150 | -0.0453 | -0.3013 |
| | 56.938 | 0.0627 | 4.6314 | -0.0105 | -0.0902 |
| 8 | 64.855 | 0.0431 | 4.0345 | 0.0002 | 0.1465 |
| 10 | 71.105 | 0.0245 | 2.9534 | 0.0045 | 0.3199 |
| Area | | -0.4155 | -26.3648 | -0.6821 | -18.0359 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -2.229 | -2.229 | -2.723 | -2.723 |
| Topping | -0.659 | -0.659 | -0.451 | -0.451 |
| Linear loads | 0.316 | 0.316 | -0.006 | -0.006 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 6.391 | -5.030 | -0.869 | -1.925 |
| Total | 3.819 | -7.602 | -4.049 | -5.105 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
55.44 56.94 61.44 62.94

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
36.32 37.82 42.32 43.82



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 48
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0120 | -1.2628 | -0.0018 | -0.1830 |
| 2 | 10.792 | -0.0121 | -1.3424 | -0.0018 | -0.1956 |
| | 18.708 | -0.0121 | -1.4216 | -0.0017 | -0.2070 |
| 4 | 26.625 | -0.0146 | -1.5165 | -0.0023 | -0.2254 |
| | 37.823 | -0.0258 | -1.3872 | -0.0066 | -0.2594 |
| 6 | 49.022 | 0.0066 | 0.9324 | -0.0146 | -0.1713 |
| | 56.938 | 0.0336 | 2.5414 | -0.0046 | -0.0243 |
| 8 | 64.855 | 0.0212 | 2.0410 | 0.0007 | 0.1383 |
| 10 | 71.105 | 0.0105 | 1.3973 | 0.0032 | 0.2438 |
| Area | | -0.2124 | -13.7793 | -0.2875 | -9.7407 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -1.838 | -1.838 | -1.023 | -1.023 |
| Topping | -0.344 | -0.344 | -0.243 | -0.243 |
| Linear loads | 0.090 | 0.090 | 0.021 | 0.021 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 3.352 | -2.553 | -0.358 | -0.622 |
| Total | 1.260 | -4.645 | -1.604 | -1.868 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
55.44 56.94 61.44 62.94

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
31.82 33.32 37.82 39.32

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 49
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.0018 | -0.1923 | -0.0006 | -0.0606 |
| 2 | 10.792 | -0.0018 | -0.2041 | -0.0006 | -0.0646 |
| | 18.708 | -0.0018 | -0.2167 | -0.0006 | -0.0682 |
| 4 | 26.625 | -0.0022 | -0.2274 | -0.0007 | -0.0744 |
| | 37.823 | -0.0033 | -0.1654 | -0.0018 | -0.0869 |
| 6 | 49.022 | 0.0042 | 0.3661 | -0.0028 | -0.0566 |
| | 56.938 | 0.0066 | 0.4851 | -0.0007 | 0.0204 |
| 8 | 64.855 | -0.0001 | 0.0801 | 0.0010 | 0.1031 |
| 10 | 71.105 | -0.0035 | -0.1316 | 0.0018 | 0.1402 |
| Area | | -0.0219 | -1.3586 | -0.0597 | -2.4149 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -1.453 | -1.453 | 0.380 | 0.380 |
| Topping | -0.034 | -0.034 | -0.060 | -0.060 |
| Linear loads | -0.132 | -0.132 | 0.033 | 0.033 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.660 | -0.337 | -0.217 | -0.156 |
| Total | -0.959 | -1.956 | 0.135 | 0.196 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
48.61 50.11 54.61 56.11

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
30.32 31.82 36.32 37.82



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 50
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section top

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0009 | 0.0856 | 0.0005 | 0.0470 |
| 2 | 10.792 | 0.0007 | 0.0903 | 0.0004 | 0.0501 |
| | 18.708 | 0.0006 | 0.1005 | 0.0004 | 0.0538 |
| 4 | 26.625 | 0.0007 | 0.0737 | 0.0005 | 0.0523 |
| | 37.823 | -0.0003 | -0.2908 | 0.0009 | -0.0045 |
| 6 | 49.022 | -0.0241 | -1.8265 | -0.0037 | -0.2816 |
| | 56.938 | -0.0461 | -2.2672 | -0.0153 | -0.5436 |
| 8 | 64.855 | 0.0229 | 1.6857 | -0.0587 | -0.8159 |
| 10 | 71.105 | 0.1104 | 5.7138 | -0.0353 | -1.0174 |
| Area | | -0.1014 | -7.6585 | -0.6210 | -14.1067 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.831 | -0.831 | -2.558 | -2.558 |
| Topping | -0.191 | -0.191 | -0.353 | -0.353 |
| Linear loads | 2.349 | 2.349 | -0.417 | -0.417 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 2.673 | -4.378 | -4.850 | -1.399 |
| Total | 3.999 | -3.052 | -8.178 | -4.727 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
50.94 52.44 56.94 58.44

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 51
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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section a

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0009 | 0.0911 | 0.0004 | 0.0456 |
| 2 | 10.792 | 0.0007 | 0.0962 | 0.0004 | 0.0486 |
| | 18.708 | 0.0006 | 0.1062 | 0.0004 | 0.0523 |
| 4 | 26.625 | 0.0008 | 0.0836 | 0.0005 | 0.0513 |
| | 37.823 | 0.0000 | -0.2418 | 0.0008 | 0.0007 |
| 6 | 49.022 | -0.0214 | -1.6366 | -0.0034 | -0.2512 |
| | 56.938 | -0.0409 | -2.0702 | -0.0135 | -0.4945 |
| 8 | 64.855 | 0.0202 | 1.4761 | -0.0481 | -0.7473 |
| 10 | 71.105 | 0.0964 | 5.1192 | -0.0310 | -0.9313 |
| Area | | -0.0887 | -6.6950 | -0.5249 | -12.6773 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | -0.587 | -0.587 | -2.224 | -2.224 |
| Topping | -0.167 | -0.167 | -0.317 | -0.317 |
| Linear loads | 2.109 | 2.109 | -0.381 | -0.381 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 2.289 | -3.877 | -4.080 | -1.239 |
| Total | 3.643 | -2.522 | -7.001 | -4.161 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
50.94 52.44 56.94 58.44



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 52
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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section b

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0011 | 0.1148 | 0.0004 | 0.0426 |
| 2 | 10.792 | 0.0010 | 0.1216 | 0.0004 | 0.0454 |
| | 18.708 | 0.0010 | 0.1308 | 0.0004 | 0.0486 |
| 4 | 26.625 | 0.0012 | 0.1254 | 0.0005 | 0.0501 |
| | 37.823 | 0.0013 | -0.0380 | 0.0008 | 0.0274 |
| 6 | 49.022 | -0.0105 | -0.8442 | -0.0016 | -0.1172 |
| | 56.938 | -0.0226 | -1.2466 | -0.0067 | -0.2808 |
| 8 | 64.855 | 0.0084 | 0.5999 | -0.0171 | -0.4513 |
| 10 | 71.105 | 0.0480 | 2.6327 | -0.0152 | -0.5623 |
| Area | | -0.0352 | -2.6706 | -0.2074 | -6.3340 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 0.434 | 0.434 | -0.717 | -0.717 |
| Topping | -0.067 | -0.067 | -0.158 | -0.158 |
| Linear loads | 1.106 | 1.106 | -0.223 | -0.223 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.934 | -2.090 | -1.642 | -0.604 |
| Total | 2.407 | -0.617 | -2.741 | -1.702 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
60.69 62.19 66.69 68.19

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
50.94 52.44 56.94 58.44

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 53
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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section c

Loadfactor 1.000 impactfactor 1.300

Influence lines incl. loaddistribution

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.0013 | 0.1390 | 0.0003 | 0.0310 |
| 2 | 10.792 | 0.0013 | 0.1477 | 0.0003 | 0.0330 |
| | 18.708 | 0.0014 | 0.1563 | 0.0003 | 0.0349 |
| 4 | 26.625 | 0.0016 | 0.1678 | 0.0004 | 0.0376 |
| | 37.823 | 0.0027 | 0.1630 | 0.0006 | 0.0381 |
| 6 | 49.022 | 0.0001 | -0.0624 | 0.0000 | -0.0040 |
| | 56.938 | -0.0063 | -0.4328 | -0.0016 | -0.0844 |
| 8 | 64.855 | -0.0032 | -0.2669 | -0.0038 | -0.1687 |
| 10 | 71.105 | 0.0047 | 0.1727 | -0.0042 | -0.2070 |
| Area | | 0.0174 | 1.3071 | -0.0340 | -0.9615 |

| Description | Moment Max. | Moment Min. | Axial force in case of Max. mom | Axial force in case of Min. mom |
|---|---|---|---|---|
| Selfweight | 1.443 | 1.443 | 0.506 | 0.506 |
| Topping | 0.033 | 0.033 | -0.024 | -0.024 |
| Linear loads | 0.115 | 0.115 | -0.076 | -0.076 |
| Live load (incl. reduction factor) | | | | |
| Vehicle(s) | 0.279 | -0.588 | 0.064 | -0.191 |
| Total | 1.870 | 1.002 | 0.470 | 0.215 |

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
36.32 37.82 42.32 43.82

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
53.27 54.77 59.27 60.77



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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

LOAD ON THE WEBS

| WEB | S.W. |
|---|---|
| 1 | 5.50 |
| 2 | 5.43 |
| 3 | 5.25 |
| 4 | 5.22 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 55
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Summary of the results ( Maximum)

| Section | Deadload Moment | Deadload Ax.Frc | P.T. Moment | P.T. Ax.Frc | Live load Moment | Live load Ax.Frc |
|---|---|---|---|---|---|---|
| 1 a | -3.62 | 0.35 | 0.00 | 0.00 | 0.93 | 0.08 |
| 1 b | -7.11 | 0.78 | 0.00 | 0.00 | 0.72 | 0.18 |
| 1 c | -11.91 | 1.48 | 0.00 | 0.00 | -0.01 | 0.01 |
| 1 right | -13.26 | 1.69 | 0.00 | 0.00 | -0.01 | 0.01 |
| 2 left | -6.63 | 2.28 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2 a | -5.69 | 2.07 | 0.00 | 0.00 | 0.55 | 1.15 |
| 2 b | -0.81 | 0.90 | 0.00 | 0.00 | 3.18 | -0.01 |
| 2 c | -0.16 | 0.67 | 0.00 | 0.00 | 3.53 | -0.35 |
| 2 right | -4.78 | 1.22 | 0.00 | 0.00 | 1.03 | 1.12 |
| 3 left | -7.52 | 1.10 | 0.00 | 0.00 | 3.51 | 0.23 |
| 3 a | -6.39 | 0.85 | 0.00 | 0.00 | 3.75 | 0.67 |
| 3 b | 0.13 | -0.62 | 0.00 | 0.00 | 4.21 | 0.14 |
| 3 c | 2.24 | -1.25 | 0.00 | 0.00 | 4.62 | -0.14 |
| 3 right | -7.99 | 0.35 | 0.00 | 0.00 | 3.56 | 0.72 |
| 4 left | -5.30 | 0.49 | 0.00 | 0.00 | 1.04 | 1.01 |
| 4 a | -4.42 | 0.32 | 0.00 | 0.00 | 1.98 | 0.62 |
| 4 b | 0.00 | -0.48 | 0.00 | 0.00 | 3.51 | -0.20 |
| 4 c | 0.45 | -0.52 | 0.00 | 0.00 | 3.54 | -0.52 |
| 4 right | -4.89 | 0.79 | 0.00 | 0.00 | 0.08 | 0.01 |
| 5 left | -6.22 | 0.83 | 0.00 | 0.00 | -0.01 | 0.01 |
| 5 a | -5.21 | 0.66 | 0.00 | 0.00 | 0.00 | 0.01 |
| 5 b | -2.44 | 0.25 | 0.00 | 0.00 | 0.66 | 0.05 |
| 5 c | -0.60 | 0.05 | 0.00 | 0.00 | 0.20 | 0.01 |
| 6 a | -0.90 | -0.35 | 0.00 | 0.00 | 0.94 | -0.98 |
| 6 b | -0.40 | -0.01 | 0.00 | 0.00 | 0.79 | -0.80 |
| 6 c | 0.84 | 1.01 | 0.00 | 0.00 | 0.03 | -0.02 |
| 7 a | -1.06 | 0.09 | 0.00 | 0.00 | 0.47 | -0.58 |
| 7 b | -0.55 | 0.39 | 0.00 | 0.00 | 0.39 | -0.48 |
| 7 c | 0.81 | 1.26 | 0.00 | 0.00 | 0.03 | -0.19 |
| 8 top | -6.63 | -4.06 | 0.00 | 0.00 | 4.39 | -1.40 |
| 8 a | -6.14 | -3.58 | 0.00 | 0.00 | 3.89 | -1.24 |
| 8 b | -4.06 | -1.46 | 0.00 | 0.00 | 2.09 | -0.60 |
| 8 c | -2.01 | 0.29 | 0.00 | 0.00 | 0.58 | -0.19 |
| 9 top | 2.74 | -3.43 | 0.00 | 0.00 | 5.87 | -2.20 |
| 9 a | 2.65 | -3.00 | 0.00 | 0.00 | 5.14 | -1.94 |
| 9 b | 2.26 | -1.11 | 0.00 | 0.00 | 2.61 | -0.63 |
| 9 c | 1.87 | 0.43 | 0.00 | 0.00 | 0.27 | 0.17 |
| 10 top | -2.69 | -3.61 | 0.00 | 0.00 | 7.19 | -1.00 |
| 10 a | -2.57 | -3.18 | 0.00 | 0.00 | 6.39 | -0.87 |
| 10 b | -2.09 | -1.25 | 0.00 | 0.00 | 3.35 | -0.36 |
| 10 c | -1.62 | 0.35 | 0.00 | 0.00 | 0.66 | -0.22 |
| 11 top | 1.33 | -3.33 | 0.00 | 0.00 | 2.67 | -4.85 |
| 11 a | 1.35 | -2.92 | 0.00 | 0.00 | 2.29 | -4.08 |
| 11 b | 1.47 | -1.10 | 0.00 | 0.00 | 0.93 | -1.64 |
| 11 c | 1.59 | 0.41 | 0.00 | 0.00 | 0.28 | 0.06 |



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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Summary of the results ( Minimum)

| Section | Deadload Moment | Deadload Ax.Frc | P.T. Moment | P.T. Ax.Frc | Live load Moment | Live load Ax.Frc |
|---|---|---|---|---|---|---|
| 1 a | -3.62 | 0.35 | 0.00 | 0.00 | -1.07 | 0.08 |
| 1 b | -7.11 | 0.78 | 0.00 | 0.00 | -5.35 | 0.17 |
| 1 c | -11.91 | 1.48 | 0.00 | 0.00 | -8.80 | 0.44 |
| 1 right | -13.26 | 1.69 | 0.00 | 0.00 | -10.79 | 0.61 |
| 2 left | -6.63 | 2.28 | 0.00 | 0.00 | -5.02 | -0.17 |
| 2 a | -5.69 | 2.07 | 0.00 | 0.00 | -4.44 | -0.20 |
| 2 b | -0.81 | 0.90 | 0.00 | 0.00 | -0.55 | 0.68 |
| 2 c | -0.16 | 0.67 | 0.00 | 0.00 | -0.49 | 0.41 |
| 2 right | -4.78 | 1.22 | 0.00 | 0.00 | -4.37 | -0.44 |
| 3 left | -7.52 | 1.10 | 0.00 | 0.00 | -7.35 | 0.27 |
| 3 a | -6.39 | 0.85 | 0.00 | 0.00 | -6.76 | 0.02 |
| 3 b | 0.13 | -0.62 | 0.00 | 0.00 | -2.46 | -0.17 |
| 3 c | 2.24 | -1.25 | 0.00 | 0.00 | -0.21 | -0.18 |
| 3 right | -7.99 | 0.35 | 0.00 | 0.00 | -7.22 | 0.22 |
| 4 left | -5.30 | 0.49 | 0.00 | 0.00 | -4.37 | -0.64 |
| 4 a | -4.42 | 0.32 | 0.00 | 0.00 | -3.85 | -0.66 |
| 4 b | 0.00 | -0.48 | 0.00 | 0.00 | -0.77 | 0.32 |
| 4 c | 0.45 | -0.52 | 0.00 | 0.00 | -0.57 | 0.24 |
| 4 right | -4.89 | 0.79 | 0.00 | 0.00 | -5.00 | -0.31 |
| 5 left | -6.22 | 0.83 | 0.00 | 0.00 | -4.54 | 0.48 |
| 5 a | -5.21 | 0.66 | 0.00 | 0.00 | -3.22 | 0.29 |
| 5 b | -2.44 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 c | -0.60 | 0.05 | 0.00 | 0.00 | -0.04 | 0.01 |
| 6 a | -0.90 | -0.35 | 0.00 | 0.00 | -0.41 | 0.26 |
| 6 b | -0.40 | -0.01 | 0.00 | 0.00 | -0.35 | 0.27 |
| 6 c | 0.84 | 1.01 | 0.00 | 0.00 | -0.06 | 0.81 |
| 7 a | -1.06 | 0.09 | 0.00 | 0.00 | -0.74 | 0.72 |
| 7 b | -0.55 | 0.39 | 0.00 | 0.00 | -0.63 | 0.70 |
| 7 c | 0.81 | 1.26 | 0.00 | 0.00 | -0.06 | 0.82 |
| 8 top | -6.63 | -4.06 | 0.00 | 0.00 | -9.10 | -5.01 |
| 8 a | -6.14 | -3.58 | 0.00 | 0.00 | -7.92 | -4.26 |
| 8 b | -4.06 | -1.46 | 0.00 | 0.00 | -3.88 | -1.81 |
| 8 c | -2.01 | 0.29 | 0.00 | 0.00 | -0.23 | -0.46 |
| 9 top | 2.74 | -3.43 | 0.00 | 0.00 | -7.05 | -1.01 |
| 9 a | 2.65 | -3.00 | 0.00 | 0.00 | -6.26 | -0.88 |
| 9 b | 2.26 | -1.11 | 0.00 | 0.00 | -3.29 | -0.36 |
| 9 c | 1.87 | 0.43 | 0.00 | 0.00 | -0.65 | -0.22 |
| 10 top | -2.69 | -3.61 | 0.00 | 0.00 | -5.75 | -2.19 |
| 10 a | -2.57 | -3.18 | 0.00 | 0.00 | -5.03 | -1.93 |
| 10 b | -2.09 | -1.25 | 0.00 | 0.00 | -2.55 | -0.62 |
| 10 c | -1.62 | 0.35 | 0.00 | 0.00 | -0.34 | -0.16 |
| 11 top | 1.33 | -3.33 | 0.00 | 0.00 | -4.38 | -1.40 |
| 11 a | 1.35 | -2.92 | 0.00 | 0.00 | -3.88 | -1.24 |
| 11 b | 1.47 | -1.10 | 0.00 | 0.00 | -2.09 | -0.60 |
| 11 c | 1.59 | 0.41 | 0.00 | 0.00 | -0.59 | -0.19 |

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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

The calculation of the influence lines has been ended at the following harmonics

| slab | section | moment | axial force |
|---|---|---|---|
| 1 | A | 51 | 37 |
| 1 | B | 51 | 51 |
| 1 | C | 51 | 51 |
| 1 | RIGHT | 51 | 51 |
| 2 | LEFT | 51 | 47 |
| 2 | A | 51 | 43 |
| 2 | B | 51 | 39 |
| 2 | C | 51 | 39 |
| 2 | RIGHT | 51 | 51 |
| 3 | LEFT | 51 | 51 |
| 3 | A | 51 | 51 |
| 3 | B | 51 | 37 |
| 3 | C | 51 | 43 |
| 3 | RIGHT | 51 | 51 |
| 4 | LEFT | 51 | 51 |
| 4 | A | 51 | 51 |
| 4 | B | 51 | 41 |
| 4 | C | 51 | 39 |
| 4 | RIGHT | 51 | 51 |
| 5 | LEFT | 51 | 51 |
| 5 | A | 51 | 51 |
| 5 | B | 51 | 51 |
| 5 | C | 51 | 41 |
| 6 | A | 35 | 37 |
| 6 | B | 33 | 37 |
| 6 | C | 27 | 35 |
| 7 | A | 37 | 37 |
| 7 | B | 35 | 37 |
| 7 | C | 35 | 35 |
| 8 | TOP | 43 | 51 |
| 8 | A | 39 | 51 |
| 8 | B | 37 | 51 |
| 8 | C | 41 | 41 |
| 9 | TOP | 41 | 51 |
| 9 | A | 37 | 51 |
| 9 | B | 37 | 51 |
| 9 | C | 41 | 51 |
| 10 | TOP | 41 | 51 |
| 10 | A | 37 | 51 |
| 10 | B | 37 | 51 |
| 10 | C | 41 | 51 |
| 11 | TOP | 51 | 51 |
| 11 | A | 51 | 51 |
| 11 | B | 41 | 51 |
| 11 | C | 41 | 51 |

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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.11938 | -5.19599 | 0.00071 | 0.02212 |
| 2 | 5.208 | 0.02269 | 0.00943 | 0.00067 | 0.02163 |
| 3 | 7.708 | 0.00171 | 0.00788 | 0.00063 | 0.02141 |
| 4 | 10.208 | 0.00020 | 0.00646 | 0.00064 | 0.02120 |
| 5 | 10.792 | 0.00007 | 0.00613 | 0.00068 | 0.02115 |
| 6 | 11.375 | -0.00006 | 0.00580 | 0.00072 | 0.02110 |
| 7 | 16.375 | -0.00063 | 0.00289 | 0.00073 | 0.02141 |
| 8 | 18.708 | -0.00061 | 0.00155 | 0.00063 | 0.02188 |
| 9 | 21.042 | -0.00043 | 0.00034 | 0.00052 | 0.02221 |
| 10 | 26.042 | -0.00010 | -0.00192 | 0.00037 | 0.02177 |
| 11 | 26.625 | -0.00008 | -0.00216 | 0.00037 | 0.02161 |
| 12 | 27.208 | -0.00006 | -0.00239 | 0.00036 | 0.02145 |
| 13 | 32.208 | 0.00007 | -0.00389 | 0.00029 | 0.01929 |
| 14 | 37.823 | 0.00008 | -0.00368 | 0.00016 | 0.01457 |
| 15 | 43.438 | 0.00003 | -0.00234 | 0.00005 | 0.00984 |
| 16 | 48.438 | 0.00000 | -0.00163 | 0.00002 | 0.00765 |
| 17 | 49.022 | -0.00001 | -0.00158 | 0.00002 | 0.00748 |
| 18 | 49.605 | -0.00001 | -0.00154 | 0.00002 | 0.00732 |
| 19 | 54.605 | -0.00002 | -0.00123 | 0.00000 | 0.00642 |
| 20 | 56.938 | -0.00002 | -0.00116 | 0.00000 | 0.00634 |
| 21 | 59.272 | -0.00001 | -0.00115 | -0.00001 | 0.00643 |
| 22 | 64.272 | -0.00001 | -0.00118 | -0.00001 | 0.00648 |
| 23 | 64.855 | -0.00001 | -0.00118 | 0.00000 | 0.00645 |
| 24 | 65.438 | -0.00001 | -0.00119 | 0.00000 | 0.00642 |
| 25 | 67.438 | -0.00001 | -0.00120 | 0.00000 | 0.00632 |
| 26 | 69.438 | -0.00001 | -0.00120 | 0.00001 | 0.00623 |
| 27 | 71.105 | -0.00001 | -0.00121 | 0.00002 | 0.00615 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 2
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.16940 | -7.68276 | 0.00166 | 0.04963 |
| 2 | 5.208 | -0.06949 | -2.48076 | 0.00152 | 0.04857 |
| 3 | 7.708 | 0.01916 | 0.01650 | 0.00135 | 0.04808 |
| 4 | 10.208 | 0.00108 | 0.01348 | 0.00135 | 0.04760 |
| 5 | 10.792 | 0.00025 | 0.01280 | 0.00151 | 0.04750 |
| 6 | 11.375 | -0.00034 | 0.01212 | 0.00171 | 0.04740 |
| 7 | 16.375 | -0.00167 | 0.00615 | 0.00174 | 0.04810 |
| 8 | 18.708 | -0.00148 | 0.00340 | 0.00147 | 0.04913 |
| 9 | 21.042 | -0.00099 | 0.00091 | 0.00119 | 0.04985 |
| 10 | 26.042 | -0.00021 | -0.00376 | 0.00085 | 0.04888 |
| 11 | 26.625 | -0.00016 | -0.00426 | 0.00084 | 0.04854 |
| 12 | 27.208 | -0.00012 | -0.00475 | 0.00082 | 0.04819 |
| 13 | 32.208 | 0.00016 | -0.00788 | 0.00066 | 0.04341 |
| 14 | 37.823 | 0.00019 | -0.00749 | 0.00036 | 0.03299 |
| 15 | 43.438 | 0.00006 | -0.00477 | 0.00012 | 0.02257 |
| 16 | 48.438 | -0.00001 | -0.00331 | 0.00005 | 0.01773 |
| 17 | 49.022 | -0.00001 | -0.00321 | 0.00005 | 0.01737 |
| 18 | 49.605 | -0.00001 | -0.00312 | 0.00005 | 0.01702 |
| 19 | 54.605 | -0.00003 | -0.00248 | 0.00002 | 0.01503 |
| 20 | 56.938 | -0.00003 | -0.00234 | 0.00001 | 0.01483 |
| 21 | 59.272 | -0.00003 | -0.00232 | -0.00001 | 0.01502 |
| 22 | 64.272 | -0.00002 | -0.00239 | 0.00000 | 0.01510 |
| 23 | 64.855 | -0.00002 | -0.00239 | 0.00001 | 0.01504 |
| 24 | 65.438 | -0.00002 | -0.00240 | 0.00001 | 0.01498 |
| 25 | 67.438 | -0.00001 | -0.00242 | 0.00002 | 0.01476 |
| 26 | 69.438 | -0.00001 | -0.00243 | 0.00004 | 0.01456 |
| 27 | 71.105 | -0.00001 | -0.00245 | 0.00005 | 0.01438 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 3
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.21356 | -10.14134 | 0.00339 | 0.09274 |
| 2 | 5.208 | -0.11725 | -4.94931 | 0.00341 | 0.09083 |
| 3 | 7.708 | -0.06798 | -2.45705 | 0.00350 | 0.08994 |
| 4 | 10.208 | 0.01560 | 0.03545 | 0.00442 | 0.08909 |
| 5 | 10.792 | 0.00400 | 0.03361 | 0.00512 | 0.08889 |
| 6 | 11.375 | -0.00277 | 0.03179 | 0.00576 | 0.08872 |
| 7 | 16.375 | -0.00752 | 0.01613 | 0.00397 | 0.08999 |
| 8 | 18.708 | -0.00536 | 0.00893 | 0.00305 | 0.09188 |
| 9 | 21.042 | -0.00310 | 0.00236 | 0.00234 | 0.09320 |
| 10 | 26.042 | -0.00059 | -0.00997 | 0.00163 | 0.09141 |
| 11 | 26.625 | -0.00045 | -0.01129 | 0.00160 | 0.09079 |
| 12 | 27.208 | -0.00032 | -0.01259 | 0.00157 | 0.09014 |
| 13 | 32.208 | 0.00046 | -0.02087 | 0.00125 | 0.08138 |
| 14 | 37.823 | 0.00054 | -0.01987 | 0.00071 | 0.06235 |
| 15 | 43.438 | 0.00017 | -0.01274 | 0.00026 | 0.04329 |
| 16 | 48.438 | -0.00001 | -0.00889 | 0.00014 | 0.03448 |
| 17 | 49.022 | -0.00002 | -0.00863 | 0.00013 | 0.03381 |
| 18 | 49.605 | -0.00003 | -0.00838 | 0.00013 | 0.03317 |
| 19 | 54.605 | -0.00009 | -0.00669 | 0.00008 | 0.02952 |
| 20 | 56.938 | -0.00009 | -0.00629 | 0.00005 | 0.02912 |
| 21 | 59.272 | -0.00008 | -0.00624 | 0.00002 | 0.02944 |
| 22 | 64.272 | -0.00005 | -0.00641 | 0.00003 | 0.02956 |
| 23 | 64.855 | -0.00005 | -0.00643 | 0.00004 | 0.02945 |
| 24 | 65.438 | -0.00005 | -0.00644 | 0.00005 | 0.02933 |
| 25 | 67.438 | -0.00004 | -0.00648 | 0.00007 | 0.02894 |
| 26 | 69.438 | -0.00003 | -0.00653 | 0.00009 | 0.02856 |
| 27 | 71.105 | -0.00003 | -0.00657 | 0.00011 | 0.02825 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 4
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 1 section right appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.22405 | -10.70968 | 0.00399 | 0.10551 |
| 2 | 5.208 | -0.12968 | -5.52128 | 0.00431 | 0.10335 |
| 3 | 7.708 | -0.08427 | -3.03077 | 0.00489 | 0.10236 |
| 4 | 10.208 | -0.01929 | -0.54009 | 0.00679 | 0.10140 |
| 5 | 10.792 | 0.00882 | 0.04121 | 0.00778 | 0.10118 |
| 6 | 11.375 | -0.00442 | 0.03896 | 0.00854 | 0.10098 |
| 7 | 16.375 | -0.01139 | 0.01978 | 0.00494 | 0.10242 |
| 8 | 18.708 | -0.00749 | 0.01097 | 0.00363 | 0.10455 |
| 9 | 21.042 | -0.00406 | 0.00292 | 0.00271 | 0.10604 |
| 10 | 26.042 | -0.00074 | -0.01219 | 0.00187 | 0.10401 |
| 11 | 26.625 | -0.00056 | -0.01381 | 0.00183 | 0.10332 |
| 12 | 27.208 | -0.00040 | -0.01541 | 0.00180 | 0.10258 |
| 13 | 32.208 | 0.00058 | -0.02558 | 0.00143 | 0.09267 |
| 14 | 37.823 | 0.00067 | -0.02437 | 0.00082 | 0.07113 |
| 15 | 43.438 | 0.00022 | -0.01564 | 0.00031 | 0.04958 |
| 16 | 48.438 | -0.00001 | -0.01092 | 0.00017 | 0.03961 |
| 17 | 49.022 | -0.00003 | -0.01060 | 0.00016 | 0.03886 |
| 18 | 49.605 | -0.00004 | -0.01029 | 0.00016 | 0.03814 |
| 19 | 54.605 | -0.00011 | -0.00822 | 0.00010 | 0.03400 |
| 20 | 56.938 | -0.00011 | -0.00773 | 0.00006 | 0.03354 |
| 21 | 59.272 | -0.00009 | -0.00767 | 0.00003 | 0.03388 |
| 22 | 64.272 | -0.00006 | -0.00787 | 0.00005 | 0.03401 |
| 23 | 64.855 | -0.00006 | -0.00789 | 0.00006 | 0.03389 |
| 24 | 65.438 | -0.00006 | -0.00791 | 0.00006 | 0.03376 |
| 25 | 67.438 | -0.00005 | -0.00796 | 0.00009 | 0.03332 |
| 26 | 69.438 | -0.00004 | -0.00801 | 0.00011 | 0.03289 |
| 27 | 71.105 | -0.00004 | -0.00806 | 0.00013 | 0.03254 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 5
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section left appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.06393 | -2.08144 | 0.02328 | 1.14373 |
| 2 | 5.208 | -0.02943 | -0.24767 | 0.01724 | 0.75896 |
| 3 | 7.708 | -0.01312 | 0.63224 | 0.01499 | 0.57429 |
| 4 | 10.208 | 0.01608 | 1.51208 | 0.01230 | 0.38960 |
| 5 | 10.792 | 0.03142 | 1.71742 | 0.01088 | 0.34650 |
| 6 | 11.375 | 0.00524 | 1.34148 | 0.00919 | 0.30357 |
| 7 | 16.375 | -0.05024 | -1.46023 | 0.00040 | -0.02921 |
| 8 | 18.708 | -0.05379 | -2.26574 | -0.00169 | -0.13485 |
| 9 | 21.042 | -0.04673 | -2.45565 | -0.00232 | -0.17173 |
| 10 | 26.042 | -0.02687 | -1.94331 | -0.00154 | -0.13433 |
| 11 | 26.625 | -0.02481 | -1.85017 | -0.00138 | -0.12487 |
| 12 | 27.208 | -0.02280 | -1.75590 | -0.00121 | -0.11523 |
| 13 | 32.208 | -0.00809 | -0.98176 | -0.00003 | -0.03943 |
| 14 | 37.823 | 0.00022 | -0.32427 | 0.00038 | 0.01327 |
| 15 | 43.438 | 0.00109 | -0.02280 | 0.00015 | 0.02717 |
| 16 | 48.438 | 0.00059 | 0.04986 | 0.00003 | 0.02648 |
| 17 | 49.022 | 0.00056 | 0.05409 | 0.00003 | 0.02630 |
| 18 | 49.605 | 0.00054 | 0.05807 | 0.00003 | 0.02613 |
| 19 | 54.605 | 0.00038 | 0.08138 | -0.00002 | 0.02547 |
| 20 | 56.938 | 0.00036 | 0.08392 | -0.00005 | 0.02568 |
| 21 | 59.272 | 0.00039 | 0.08088 | -0.00008 | 0.02600 |
| 22 | 64.272 | 0.00049 | 0.07394 | -0.00005 | 0.02589 |
| 23 | 64.855 | 0.00050 | 0.07361 | -0.00005 | 0.02578 |
| 24 | 65.438 | 0.00052 | 0.07332 | -0.00004 | 0.02567 |
| 25 | 67.438 | 0.00056 | 0.07232 | -0.00001 | 0.02531 |
| 26 | 69.438 | 0.00061 | 0.07134 | 0.00003 | 0.02495 |
| 27 | 71.105 | 0.00065 | 0.07053 | 0.00005 | 0.02466 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 6
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.05728 | -1.97100 | 0.02196 | 1.08854 |
| 2 | 5.208 | -0.02326 | -0.23893 | 0.01561 | 0.71368 |
| 3 | 7.708 | -0.00630 | 0.59222 | 0.01270 | 0.53375 |
| 4 | 10.208 | 0.01680 | 1.42327 | 0.00921 | 0.35382 |
| 5 | 10.792 | 0.02574 | 1.61721 | 0.00799 | 0.31183 |
| 6 | 11.375 | 0.03868 | 1.81329 | 0.00668 | 0.27001 |
| 7 | 16.375 | -0.04168 | -1.09116 | -0.00040 | -0.05375 |
| 8 | 18.708 | -0.04759 | -1.94675 | -0.00216 | -0.15551 |
| 9 | 21.042 | -0.04215 | -2.18579 | -0.00258 | -0.18867 |
| 10 | 26.042 | -0.02461 | -1.77095 | -0.00156 | -0.14304 |
| 11 | 26.625 | -0.02276 | -1.68850 | -0.00138 | -0.13258 |
| 12 | 27.208 | -0.02095 | -1.60485 | -0.00119 | -0.12194 |
| 13 | 32.208 | -0.00768 | -0.91637 | 0.00011 | -0.03848 |
| 14 | 37.823 | -0.00015 | -0.32619 | 0.00052 | 0.01906 |
| 15 | 43.438 | 0.00069 | -0.05082 | 0.00021 | 0.03369 |
| 16 | 48.438 | 0.00028 | 0.01742 | 0.00007 | 0.03257 |
| 17 | 49.022 | 0.00026 | 0.02145 | 0.00007 | 0.03235 |
| 18 | 49.605 | 0.00024 | 0.02526 | 0.00007 | 0.03213 |
| 19 | 54.605 | 0.00011 | 0.04795 | 0.00001 | 0.03123 |
| 20 | 56.938 | 0.00010 | 0.05086 | -0.00003 | 0.03142 |
| 21 | 59.272 | 0.00013 | 0.04853 | -0.00006 | 0.03177 |
| 22 | 64.272 | 0.00023 | 0.04289 | -0.00004 | 0.03161 |
| 23 | 64.855 | 0.00024 | 0.04266 | -0.00003 | 0.03148 |
| 24 | 65.438 | 0.00025 | 0.04246 | -0.00002 | 0.03135 |
| 25 | 67.438 | 0.00030 | 0.04178 | 0.00002 | 0.03092 |
| 26 | 69.438 | 0.00034 | 0.04111 | 0.00005 | 0.03051 |
| 27 | 71.105 | 0.00037 | 0.04056 | 0.00008 | 0.03016 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 7
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.02630 | -1.09753 | 0.01305 | 0.65013 |
| 2 | 5.208 | -0.00990 | -0.21845 | 0.00767 | 0.35962 |
| 3 | 7.708 | -0.00161 | 0.20354 | 0.00493 | 0.22019 |
| 4 | 10.208 | 0.00698 | 0.62555 | 0.00204 | 0.08076 |
| 5 | 10.792 | 0.00904 | 0.72404 | 0.00133 | 0.04822 |
| 6 | 11.375 | 0.01118 | 0.82439 | 0.00064 | 0.01583 |
| 7 | 16.375 | 0.05748 | 2.05841 | -0.00353 | -0.23032 |
| 8 | 18.708 | 0.00113 | 0.78129 | -0.00419 | -0.29833 |
| 9 | 21.042 | -0.00347 | 0.12847 | -0.00361 | -0.29917 |
| 10 | 26.042 | -0.00511 | -0.27837 | -0.00099 | -0.18367 |
| 11 | 26.625 | -0.00505 | -0.28600 | -0.00064 | -0.16486 |
| 12 | 27.208 | -0.00500 | -0.29188 | -0.00030 | -0.14590 |
| 13 | 32.208 | -0.00472 | -0.32792 | 0.00190 | 0.00070 |
| 14 | 37.823 | -0.00385 | -0.31631 | 0.00211 | 0.09419 |
| 15 | 43.438 | -0.00282 | -0.27342 | 0.00102 | 0.10960 |
| 16 | 48.438 | -0.00236 | -0.24781 | 0.00056 | 0.10227 |
| 17 | 49.022 | -0.00232 | -0.24578 | 0.00055 | 0.10145 |
| 18 | 49.605 | -0.00229 | -0.24380 | 0.00054 | 0.10066 |
| 19 | 54.605 | -0.00207 | -0.22840 | 0.00035 | 0.09655 |
| 20 | 56.938 | -0.00201 | -0.22287 | 0.00024 | 0.09643 |
| 21 | 59.272 | -0.00199 | -0.21917 | 0.00017 | 0.09698 |
| 22 | 64.272 | -0.00196 | -0.21351 | 0.00022 | 0.09638 |
| 23 | 64.855 | -0.00195 | -0.21290 | 0.00024 | 0.09606 |
| 24 | 65.438 | -0.00195 | -0.21230 | 0.00026 | 0.09573 |
| 25 | 67.438 | -0.00193 | -0.21022 | 0.00033 | 0.09463 |
| 26 | 69.438 | -0.00192 | -0.20816 | 0.00040 | 0.09356 |
| 27 | 71.105 | -0.00190 | -0.20644 | 0.00046 | 0.09268 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 8
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.01508 | -0.70658 | 0.00972 | 0.46304 |
| 2 | 5.208 | -0.00678 | -0.22123 | 0.00505 | 0.21166 |
| 3 | 7.708 | -0.00262 | 0.01189 | 0.00269 | 0.09101 |
| 4 | 10.208 | 0.00164 | 0.24509 | 0.00022 | -0.02963 |
| 5 | 10.792 | 0.00264 | 0.29952 | -0.00037 | -0.05778 |
| 6 | 11.375 | 0.00366 | 0.35569 | -0.00095 | -0.08579 |
| 7 | 16.375 | 0.02054 | 1.19197 | -0.00431 | -0.29565 |
| 8 | 18.708 | 0.06460 | 2.05414 | -0.00456 | -0.34775 |
| 9 | 21.042 | 0.02067 | 1.21000 | -0.00361 | -0.33343 |
| 10 | 26.042 | 0.00445 | 0.42312 | -0.00033 | -0.18566 |
| 11 | 26.625 | 0.00354 | 0.37380 | 0.00008 | -0.16305 |
| 12 | 27.208 | 0.00267 | 0.32646 | 0.00050 | -0.14030 |
| 13 | 32.208 | -0.00355 | -0.04574 | 0.00309 | 0.03461 |
| 14 | 37.823 | -0.00583 | -0.30508 | 0.00310 | 0.14245 |
| 15 | 43.438 | -0.00455 | -0.37328 | 0.00153 | 0.15583 |
| 16 | 48.438 | -0.00359 | -0.36889 | 0.00090 | 0.14448 |
| 17 | 49.022 | -0.00352 | -0.36788 | 0.00088 | 0.14330 |
| 18 | 49.605 | -0.00346 | -0.36685 | 0.00086 | 0.14216 |
| 19 | 54.605 | -0.00306 | -0.35544 | 0.00059 | 0.13605 |
| 20 | 56.938 | -0.00296 | -0.34884 | 0.00044 | 0.13570 |
| 21 | 59.272 | -0.00294 | -0.34234 | 0.00035 | 0.13634 |
| 22 | 64.272 | -0.00296 | -0.33135 | 0.00040 | 0.13548 |
| 23 | 64.855 | -0.00296 | -0.33034 | 0.00043 | 0.13506 |
| 24 | 65.438 | -0.00296 | -0.32935 | 0.00046 | 0.13462 |
| 25 | 67.438 | -0.00296 | -0.32598 | 0.00055 | 0.13314 |
| 26 | 69.438 | -0.00296 | -0.32261 | 0.00064 | 0.13170 |
| 27 | 71.105 | -0.00296 | -0.31982 | 0.00072 | 0.13051 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 9
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 2 section right appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.02004 | 0.70013 | 0.00018 | -0.10452 |
| 2 | 5.208 | 0.00245 | -0.15907 | -0.00198 | -0.22382 |
| 3 | 7.708 | -0.00646 | -0.57102 | -0.00307 | -0.28108 |
| 4 | 10.208 | -0.01570 | -0.98270 | -0.00419 | -0.33834 |
| 5 | 10.792 | -0.01791 | -1.07873 | -0.00446 | -0.35170 |
| 6 | 11.375 | -0.02016 | -1.17342 | -0.00472 | -0.36495 |
| 7 | 16.375 | -0.04153 | -1.69541 | -0.00504 | -0.45246 |
| 8 | 18.708 | -0.04879 | -1.49786 | -0.00365 | -0.45099 |
| 9 | 21.042 | -0.04448 | -0.66248 | -0.00102 | -0.38583 |
| 10 | 26.042 | 0.01407 | 2.24883 | 0.00718 | -0.13026 |
| 11 | 26.625 | 0.04015 | 2.63994 | 0.00879 | -0.09492 |
| 12 | 27.208 | 0.02427 | 2.45042 | 0.01014 | -0.05953 |
| 13 | 32.208 | -0.00950 | 0.92186 | 0.01061 | 0.20885 |
| 14 | 37.823 | -0.01711 | -0.28182 | 0.00812 | 0.36060 |
| 15 | 43.438 | -0.01210 | -0.74754 | 0.00415 | 0.36228 |
| 16 | 48.438 | -0.00844 | -0.82210 | 0.00265 | 0.33479 |
| 17 | 49.022 | -0.00821 | -0.82492 | 0.00259 | 0.33217 |
| 18 | 49.605 | -0.00800 | -0.82741 | 0.00253 | 0.32965 |
| 19 | 54.605 | -0.00667 | -0.83139 | 0.00189 | 0.31569 |
| 20 | 56.938 | -0.00642 | -0.82110 | 0.00156 | 0.31448 |
| 21 | 59.272 | -0.00646 | -0.80438 | 0.00136 | 0.31553 |
| 22 | 64.272 | -0.00673 | -0.77329 | 0.00143 | 0.31347 |
| 23 | 64.855 | -0.00676 | -0.77072 | 0.00148 | 0.31258 |
| 24 | 65.438 | -0.00678 | -0.76822 | 0.00153 | 0.31165 |
| 25 | 67.438 | -0.00687 | -0.75970 | 0.00170 | 0.30852 |
| 26 | 69.438 | -0.00694 | -0.75123 | 0.00186 | 0.30546 |
| 27 | 71.105 | -0.00701 | -0.74419 | 0.00199 | 0.30294 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 10
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section left appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.03282 | 3.03957 | 0.00258 | 0.22596 |
| 2 | 5.208 | 0.03128 | 3.16891 | 0.00215 | 0.21307 |
| 3 | 7.708 | 0.03042 | 3.23228 | 0.00194 | 0.20697 |
| 4 | 10.208 | 0.02945 | 3.29641 | 0.00172 | 0.20094 |
| 5 | 10.792 | 0.02921 | 3.31149 | 0.00166 | 0.19954 |
| 6 | 11.375 | 0.02895 | 3.32642 | 0.00162 | 0.19799 |
| 7 | 16.375 | 0.02417 | 3.44080 | 0.00289 | 0.16121 |
| 8 | 18.708 | 0.02062 | 3.51584 | 0.00460 | 0.13080 |
| 9 | 21.042 | 0.01873 | 3.65547 | 0.00660 | 0.09972 |
| 10 | 26.042 | 0.03477 | 4.11593 | 0.01016 | 0.05937 |
| 11 | 26.625 | 0.04858 | 4.17955 | 0.00926 | 0.05732 |
| 12 | 27.208 | 0.02042 | 3.66212 | 0.00811 | 0.05538 |
| 13 | 32.208 | -0.05815 | -0.42015 | 0.00398 | 0.03356 |
| 14 | 37.823 | -0.07451 | -3.31342 | 0.00114 | -0.00487 |
| 15 | 43.438 | -0.05384 | -4.12352 | -0.00084 | -0.03977 |
| 16 | 48.438 | -0.04069 | -4.10133 | -0.00119 | -0.05486 |
| 17 | 49.022 | -0.03983 | -4.09180 | -0.00118 | -0.05596 |
| 18 | 49.605 | -0.03902 | -4.08192 | -0.00117 | -0.05696 |
| 19 | 54.605 | -0.03382 | -3.96572 | -0.00134 | -0.05633 |
| 20 | 56.938 | -0.03271 | -3.89429 | -0.00157 | -0.05022 |
| 21 | 59.272 | -0.03261 | -3.82149 | -0.00175 | -0.04251 |
| 22 | 64.272 | -0.03306 | -3.69630 | -0.00170 | -0.03344 |
| 23 | 64.855 | -0.03309 | -3.68481 | -0.00165 | -0.03327 |
| 24 | 65.438 | -0.03312 | -3.67350 | -0.00160 | -0.03315 |
| 25 | 67.438 | -0.03320 | -3.63491 | -0.00144 | -0.03270 |
| 26 | 69.438 | -0.03327 | -3.59651 | -0.00127 | -0.03221 |
| 27 | 71.105 | -0.03332 | -3.56460 | -0.00114 | -0.03177 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 11
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.03084 | 2.88909 | 0.00238 | 0.21013 |
| 2 | 5.208 | 0.02954 | 3.00995 | 0.00194 | 0.19747 |
| 3 | 7.708 | 0.02880 | 3.06917 | 0.00171 | 0.19150 |
| 4 | 10.208 | 0.02798 | 3.12914 | 0.00148 | 0.18559 |
| 5 | 10.792 | 0.02778 | 3.14324 | 0.00143 | 0.18422 |
| 6 | 11.375 | 0.02756 | 3.15719 | 0.00138 | 0.18270 |
| 7 | 16.375 | 0.02368 | 3.26281 | 0.00253 | 0.14682 |
| 8 | 18.708 | 0.02140 | 3.33279 | 0.00402 | 0.11718 |
| 9 | 21.042 | 0.02137 | 3.46567 | 0.00564 | 0.08691 |
| 10 | 26.042 | 0.03552 | 3.90830 | 0.00740 | 0.04764 |
| 11 | 26.625 | 0.04251 | 3.96965 | 0.00662 | 0.04565 |
| 12 | 27.208 | 0.05332 | 4.03335 | 0.00573 | 0.04377 |
| 13 | 32.208 | -0.04859 | -0.07659 | 0.00320 | 0.02259 |
| 14 | 37.823 | -0.06875 | -3.02328 | 0.00080 | -0.01473 |
| 15 | 43.438 | -0.05077 | -3.88542 | -0.00098 | -0.04853 |
| 16 | 48.438 | -0.03859 | -3.88805 | -0.00126 | -0.06298 |
| 17 | 49.022 | -0.03779 | -3.88046 | -0.00124 | -0.06402 |
| 18 | 49.605 | -0.03704 | -3.87247 | -0.00122 | -0.06496 |
| 19 | 54.605 | -0.03220 | -3.77099 | -0.00138 | -0.06347 |
| 20 | 56.938 | -0.03115 | -3.70481 | -0.00162 | -0.05678 |
| 21 | 59.272 | -0.03105 | -3.63553 | -0.00182 | -0.04852 |
| 22 | 64.272 | -0.03145 | -3.51583 | -0.00178 | -0.03872 |
| 23 | 64.855 | -0.03148 | -3.50495 | -0.00173 | -0.03852 |
| 24 | 65.438 | -0.03150 | -3.49425 | -0.00168 | -0.03836 |
| 25 | 67.438 | -0.03158 | -3.45771 | -0.00151 | -0.03778 |
| 26 | 69.438 | -0.03164 | -3.42136 | -0.00135 | -0.03716 |
| 27 | 71.105 | -0.03169 | -3.39115 | -0.00121 | -0.03662 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 12
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.01582 | 1.50224 | 0.00107 | 0.10297 |
| 2 | 5.208 | 0.01526 | 1.56621 | 0.00057 | 0.09217 |
| 3 | 7.708 | 0.01494 | 1.59764 | 0.00031 | 0.08712 |
| 4 | 10.208 | 0.01459 | 1.62953 | 0.00004 | 0.08217 |
| 5 | 10.792 | 0.01451 | 1.63703 | -0.00002 | 0.08103 |
| 6 | 11.375 | 0.01441 | 1.64438 | -0.00008 | 0.07976 |
| 7 | 16.375 | 0.01275 | 1.69046 | 0.00047 | 0.05087 |
| 8 | 18.708 | 0.01215 | 1.72448 | 0.00126 | 0.02727 |
| 9 | 21.042 | 0.01309 | 1.80703 | 0.00196 | 0.00336 |
| 10 | 26.042 | 0.02000 | 2.11356 | 0.00191 | -0.02722 |
| 11 | 26.625 | 0.02118 | 2.15759 | 0.00174 | -0.02872 |
| 12 | 27.208 | 0.02244 | 2.20351 | 0.00156 | -0.03012 |
| 13 | 32.208 | 0.06006 | 2.87531 | 0.00042 | -0.04604 |
| 14 | 37.823 | -0.02019 | -0.50935 | -0.00091 | -0.07384 |
| 15 | 43.438 | -0.02338 | -1.80466 | -0.00162 | -0.09809 |
| 16 | 48.438 | -0.02007 | -2.01663 | -0.00141 | -0.10728 |
| 17 | 49.022 | -0.01983 | -2.02563 | -0.00135 | -0.10785 |
| 18 | 49.605 | -0.01960 | -2.03375 | -0.00129 | -0.10831 |
| 19 | 54.605 | -0.01804 | -2.05806 | -0.00139 | -0.09948 |
| 20 | 56.938 | -0.01759 | -2.03722 | -0.00175 | -0.08769 |
| 21 | 59.272 | -0.01740 | -1.99886 | -0.00211 | -0.07461 |
| 22 | 64.272 | -0.01731 | -1.92802 | -0.00221 | -0.05883 |
| 23 | 64.855 | -0.01731 | -1.92250 | -0.00215 | -0.05832 |
| 24 | 65.438 | -0.01731 | -1.91717 | -0.00209 | -0.05790 |
| 25 | 67.438 | -0.01731 | -1.89893 | -0.00190 | -0.05639 |
| 26 | 69.438 | -0.01730 | -1.88076 | -0.00170 | -0.05484 |
| 27 | 71.105 | -0.01730 | -1.86565 | -0.00154 | -0.05353 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 13
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00040 | -0.11910 | 0.00020 | 0.02803 |
| 2 | 5.208 | -0.00068 | -0.11188 | -0.00028 | 0.01931 |
| 3 | 7.708 | -0.00083 | -0.10820 | -0.00052 | 0.01528 |
| 4 | 10.208 | -0.00099 | -0.10438 | -0.00078 | 0.01136 |
| 5 | 10.792 | -0.00103 | -0.10346 | -0.00084 | 0.01046 |
| 6 | 11.375 | -0.00107 | -0.10272 | -0.00090 | 0.00947 |
| 7 | 16.375 | -0.00187 | -0.11661 | -0.00067 | -0.01250 |
| 8 | 18.708 | -0.00223 | -0.11951 | -0.00019 | -0.03017 |
| 9 | 21.042 | -0.00197 | -0.08941 | 0.00023 | -0.04781 |
| 10 | 26.042 | 0.00054 | 0.07437 | 0.00014 | -0.06964 |
| 11 | 26.625 | 0.00097 | 0.10026 | 0.00004 | -0.07062 |
| 12 | 27.208 | 0.00143 | 0.12753 | -0.00007 | -0.07152 |
| 13 | 32.208 | 0.00920 | 0.56773 | -0.00089 | -0.08154 |
| 14 | 37.823 | 0.07414 | 2.32931 | -0.00147 | -0.09820 |
| 15 | 43.438 | 0.00918 | 0.56617 | -0.00138 | -0.11133 |
| 16 | 48.438 | 0.00140 | 0.12528 | -0.00077 | -0.11465 |
| 17 | 49.022 | 0.00095 | 0.09797 | -0.00067 | -0.11473 |
| 18 | 49.605 | 0.00052 | 0.07203 | -0.00058 | -0.11467 |
| 19 | 54.605 | -0.00200 | -0.09208 | -0.00071 | -0.09740 |
| 20 | 56.938 | -0.00226 | -0.12230 | -0.00127 | -0.07963 |
| 21 | 59.272 | -0.00190 | -0.11945 | -0.00187 | -0.06089 |
| 22 | 64.272 | -0.00110 | -0.10565 | -0.00219 | -0.03846 |
| 23 | 64.855 | -0.00106 | -0.10640 | -0.00213 | -0.03769 |
| 24 | 65.438 | -0.00102 | -0.10732 | -0.00206 | -0.03702 |
| 25 | 67.438 | -0.00089 | -0.11043 | -0.00184 | -0.03468 |
| 26 | 69.438 | -0.00077 | -0.11349 | -0.00162 | -0.03231 |
| 27 | 71.105 | -0.00067 | -0.11601 | -0.00144 | -0.03031 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 14
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 3 section right appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.03190 | -3.32216 | -0.00018 | -0.00803 |
| 2 | 5.208 | -0.03187 | -3.42358 | -0.00053 | -0.01133 |
| 3 | 7.708 | -0.03181 | -3.47306 | -0.00071 | -0.01275 |
| 4 | 10.208 | -0.03173 | -3.52301 | -0.00090 | -0.01406 |
| 5 | 10.792 | -0.03171 | -3.53474 | -0.00095 | -0.01435 |
| 6 | 11.375 | -0.03168 | -3.54665 | -0.00099 | -0.01468 |
| 7 | 16.375 | -0.03127 | -3.67556 | -0.00109 | -0.02342 |
| 8 | 18.708 | -0.03139 | -3.75018 | -0.00097 | -0.03042 |
| 9 | 21.042 | -0.03253 | -3.82351 | -0.00083 | -0.03674 |
| 10 | 26.042 | -0.03777 | -3.94382 | -0.00080 | -0.04188 |
| 11 | 26.625 | -0.03858 | -3.95418 | -0.00082 | -0.04172 |
| 12 | 27.208 | -0.03945 | -3.96419 | -0.00084 | -0.04151 |
| 13 | 32.208 | -0.05264 | -3.99043 | -0.00066 | -0.03863 |
| 14 | 37.823 | -0.07335 | -3.18371 | 0.00086 | -0.03112 |
| 15 | 43.438 | -0.05698 | -0.29047 | 0.00323 | -0.02020 |
| 16 | 48.438 | 0.02160 | 3.79435 | 0.00714 | -0.01081 |
| 17 | 49.022 | 0.04977 | 4.31224 | 0.00827 | -0.00979 |
| 18 | 49.605 | 0.03597 | 4.24900 | 0.00915 | -0.00859 |
| 19 | 54.605 | 0.01996 | 3.79194 | 0.00530 | 0.02788 |
| 20 | 56.938 | 0.02186 | 3.65400 | 0.00310 | 0.05947 |
| 21 | 59.272 | 0.02543 | 3.58068 | 0.00122 | 0.09121 |
| 22 | 64.272 | 0.03025 | 3.46984 | -0.00019 | 0.12857 |
| 23 | 64.855 | 0.03052 | 3.45530 | -0.00015 | 0.12989 |
| 24 | 65.438 | 0.03077 | 3.44062 | -0.00009 | 0.13104 |
| 25 | 67.438 | 0.03157 | 3.39056 | 0.00011 | 0.13499 |
| 26 | 69.438 | 0.03232 | 3.34080 | 0.00030 | 0.13896 |
| 27 | 71.105 | 0.03293 | 3.29949 | 0.00046 | 0.14227 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 15
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section left appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00697 | -0.70475 | 0.00278 | 0.30230 |
| 2 | 5.208 | -0.00681 | -0.72684 | 0.00244 | 0.30842 |
| 3 | 7.708 | -0.00672 | -0.73765 | 0.00227 | 0.31160 |
| 4 | 10.208 | -0.00662 | -0.74858 | 0.00208 | 0.31492 |
| 5 | 10.792 | -0.00659 | -0.75115 | 0.00204 | 0.31572 |
| 6 | 11.375 | -0.00657 | -0.75378 | 0.00200 | 0.31649 |
| 7 | 16.375 | -0.00630 | -0.78553 | 0.00188 | 0.31925 |
| 8 | 18.708 | -0.00626 | -0.80261 | 0.00202 | 0.31908 |
| 9 | 21.042 | -0.00651 | -0.81330 | 0.00226 | 0.32026 |
| 10 | 26.042 | -0.00784 | -0.81022 | 0.00277 | 0.33009 |
| 11 | 26.625 | -0.00805 | -0.80784 | 0.00282 | 0.33182 |
| 12 | 27.208 | -0.00828 | -0.80512 | 0.00287 | 0.33359 |
| 13 | 32.208 | -0.01194 | -0.73148 | 0.00420 | 0.34925 |
| 14 | 37.823 | -0.01699 | -0.26661 | 0.00772 | 0.32052 |
| 15 | 43.438 | -0.00940 | 0.93691 | 0.00973 | 0.14129 |
| 16 | 48.438 | 0.02434 | 2.46595 | 0.00904 | -0.13975 |
| 17 | 49.022 | 0.04022 | 2.65557 | 0.00766 | -0.17610 |
| 18 | 49.605 | 0.01414 | 2.26454 | 0.00604 | -0.21234 |
| 19 | 54.605 | -0.04445 | -0.64548 | -0.00247 | -0.47201 |
| 20 | 56.938 | -0.04879 | -1.47995 | -0.00530 | -0.53674 |
| 21 | 59.272 | -0.04155 | -1.67656 | -0.00688 | -0.53696 |
| 22 | 64.272 | -0.02017 | -1.15336 | -0.00670 | -0.44913 |
| 23 | 64.855 | -0.01792 | -1.05860 | -0.00644 | -0.43615 |
| 24 | 65.438 | -0.01571 | -0.96252 | -0.00616 | -0.42308 |
| 25 | 67.438 | -0.00825 | -0.63300 | -0.00524 | -0.37828 |
| 26 | 69.438 | -0.00094 | -0.30336 | -0.00434 | -0.33348 |
| 27 | 71.105 | 0.00508 | -0.02859 | -0.00359 | -0.29615 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 16
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00656 | -0.66762 | 0.00262 | 0.28582 |
| 2 | 5.208 | -0.00643 | -0.68835 | 0.00230 | 0.29161 |
| 3 | 7.708 | -0.00635 | -0.69850 | 0.00213 | 0.29461 |
| 4 | 10.208 | -0.00627 | -0.70877 | 0.00195 | 0.29776 |
| 5 | 10.792 | -0.00624 | -0.71118 | 0.00191 | 0.29851 |
| 6 | 11.375 | -0.00622 | -0.71365 | 0.00187 | 0.29924 |
| 7 | 16.375 | -0.00600 | -0.74350 | 0.00176 | 0.30186 |
| 8 | 18.708 | -0.00597 | -0.75968 | 0.00188 | 0.30170 |
| 9 | 21.042 | -0.00620 | -0.77009 | 0.00211 | 0.30280 |
| 10 | 26.042 | -0.00740 | -0.76849 | 0.00259 | 0.31204 |
| 11 | 26.625 | -0.00759 | -0.76643 | 0.00263 | 0.31366 |
| 12 | 27.208 | -0.00780 | -0.76406 | 0.00268 | 0.31533 |
| 13 | 32.208 | -0.01103 | -0.69758 | 0.00393 | 0.32984 |
| 14 | 37.823 | -0.01498 | -0.26606 | 0.00718 | 0.30044 |
| 15 | 43.438 | -0.00530 | 0.86296 | 0.00859 | 0.12467 |
| 16 | 48.438 | 0.02510 | 2.30370 | 0.00623 | -0.14942 |
| 17 | 49.022 | 0.03400 | 2.48253 | 0.00498 | -0.18483 |
| 18 | 49.605 | 0.04674 | 2.66411 | 0.00363 | -0.22013 |
| 19 | 54.605 | -0.03652 | -0.34429 | -0.00312 | -0.47187 |
| 20 | 56.938 | -0.04307 | -1.22790 | -0.00562 | -0.53289 |
| 21 | 59.272 | -0.03742 | -1.47431 | -0.00699 | -0.52920 |
| 22 | 64.272 | -0.01853 | -1.05284 | -0.00653 | -0.43241 |
| 23 | 64.855 | -0.01651 | -0.96938 | -0.00625 | -0.41834 |
| 24 | 65.438 | -0.01452 | -0.88458 | -0.00595 | -0.40419 |
| 25 | 67.438 | -0.00781 | -0.59372 | -0.00495 | -0.35565 |
| 26 | 69.438 | -0.00125 | -0.30275 | -0.00396 | -0.30712 |
| 27 | 71.105 | 0.00416 | -0.06022 | -0.00315 | -0.26668 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 17
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00392 | -0.40831 | 0.00150 | 0.16727 |
| 2 | 5.208 | -0.00389 | -0.42058 | 0.00128 | 0.17063 |
| 3 | 7.708 | -0.00387 | -0.42658 | 0.00117 | 0.17240 |
| 4 | 10.208 | -0.00385 | -0.43265 | 0.00105 | 0.17426 |
| 5 | 10.792 | -0.00385 | -0.43408 | 0.00102 | 0.17470 |
| 6 | 11.375 | -0.00384 | -0.43554 | 0.00099 | 0.17514 |
| 7 | 16.375 | -0.00378 | -0.45235 | 0.00091 | 0.17676 |
| 8 | 18.708 | -0.00380 | -0.46188 | 0.00098 | 0.17665 |
| 9 | 21.042 | -0.00393 | -0.46979 | 0.00111 | 0.17710 |
| 10 | 26.042 | -0.00453 | -0.47759 | 0.00137 | 0.18163 |
| 11 | 26.625 | -0.00462 | -0.47773 | 0.00139 | 0.18245 |
| 12 | 27.208 | -0.00472 | -0.47776 | 0.00141 | 0.18328 |
| 13 | 32.208 | -0.00622 | -0.46106 | 0.00211 | 0.18883 |
| 14 | 37.823 | -0.00784 | -0.28126 | 0.00380 | 0.15525 |
| 15 | 43.438 | -0.00244 | 0.24990 | 0.00361 | 0.01055 |
| 16 | 48.438 | 0.01041 | 0.95888 | 0.00040 | -0.20296 |
| 17 | 49.022 | 0.01225 | 1.04774 | -0.00012 | -0.23027 |
| 18 | 49.605 | 0.01418 | 1.13882 | -0.00065 | -0.25742 |
| 19 | 54.605 | 0.05916 | 2.30643 | -0.00487 | -0.44040 |
| 20 | 56.938 | 0.00256 | 1.00839 | -0.00642 | -0.46918 |
| 21 | 59.272 | -0.00204 | 0.34119 | -0.00678 | -0.43163 |
| 22 | 64.272 | -0.00371 | -0.09705 | -0.00441 | -0.25742 |
| 23 | 64.855 | -0.00368 | -0.10903 | -0.00392 | -0.23400 |
| 24 | 65.438 | -0.00366 | -0.11938 | -0.00342 | -0.21047 |
| 25 | 67.438 | -0.00367 | -0.15484 | -0.00173 | -0.12979 |
| 26 | 69.438 | -0.00375 | -0.19024 | -0.00007 | -0.04912 |
| 27 | 71.105 | -0.00382 | -0.21971 | 0.00129 | 0.01810 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 18
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00283 | -0.29832 | 0.00110 | 0.12310 |
| 2 | 5.208 | -0.00284 | -0.30719 | 0.00092 | 0.12557 |
| 3 | 7.708 | -0.00284 | -0.31151 | 0.00083 | 0.12687 |
| 4 | 10.208 | -0.00284 | -0.31589 | 0.00074 | 0.12825 |
| 5 | 10.792 | -0.00284 | -0.31692 | 0.00072 | 0.12859 |
| 6 | 11.375 | -0.00284 | -0.31796 | 0.00069 | 0.12891 |
| 7 | 16.375 | -0.00283 | -0.32928 | 0.00062 | 0.13016 |
| 8 | 18.708 | -0.00285 | -0.33595 | 0.00067 | 0.13006 |
| 9 | 21.042 | -0.00295 | -0.34273 | 0.00077 | 0.13023 |
| 10 | 26.042 | -0.00335 | -0.35447 | 0.00095 | 0.13286 |
| 11 | 26.625 | -0.00341 | -0.35554 | 0.00097 | 0.13335 |
| 12 | 27.208 | -0.00348 | -0.35659 | 0.00098 | 0.13385 |
| 13 | 32.208 | -0.00444 | -0.36126 | 0.00149 | 0.13588 |
| 14 | 37.823 | -0.00573 | -0.29317 | 0.00267 | 0.10159 |
| 15 | 43.438 | -0.00345 | -0.03369 | 0.00224 | -0.02737 |
| 16 | 48.438 | 0.00278 | 0.33877 | -0.00056 | -0.21196 |
| 17 | 49.022 | 0.00365 | 0.38614 | -0.00099 | -0.23543 |
| 18 | 49.605 | 0.00456 | 0.43550 | -0.00143 | -0.25873 |
| 19 | 54.605 | 0.02079 | 1.22262 | -0.00504 | -0.40918 |
| 20 | 56.938 | 0.06473 | 2.06693 | -0.00623 | -0.42276 |
| 21 | 59.272 | 0.02067 | 1.20491 | -0.00619 | -0.36929 |
| 22 | 64.272 | 0.00379 | 0.36884 | -0.00300 | -0.15873 |
| 23 | 64.855 | 0.00276 | 0.31269 | -0.00241 | -0.13092 |
| 24 | 65.438 | 0.00176 | 0.25830 | -0.00181 | -0.10300 |
| 25 | 67.438 | -0.00166 | 0.07181 | 0.00021 | -0.00724 |
| 26 | 69.438 | -0.00506 | -0.11465 | 0.00217 | 0.08851 |
| 27 | 71.105 | -0.00787 | -0.27002 | 0.00378 | 0.16830 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 19
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 4 section right appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00083 | 0.07745 | 0.00011 | 0.01326 |
| 2 | 5.208 | 0.00073 | 0.07977 | 0.00007 | 0.01349 |
| 3 | 7.708 | 0.00067 | 0.08094 | 0.00005 | 0.01363 |
| 4 | 10.208 | 0.00061 | 0.08215 | 0.00003 | 0.01378 |
| 5 | 10.792 | 0.00060 | 0.08244 | 0.00002 | 0.01381 |
| 6 | 11.375 | 0.00058 | 0.08276 | 0.00002 | 0.01385 |
| 7 | 16.375 | 0.00047 | 0.08965 | 0.00000 | 0.01411 |
| 8 | 18.708 | 0.00044 | 0.09270 | 0.00000 | 0.01405 |
| 9 | 21.042 | 0.00046 | 0.09021 | 0.00001 | 0.01363 |
| 10 | 26.042 | 0.00061 | 0.06710 | 0.00002 | 0.01198 |
| 11 | 26.625 | 0.00064 | 0.06315 | 0.00002 | 0.01174 |
| 12 | 27.208 | 0.00067 | 0.05895 | 0.00002 | 0.01149 |
| 13 | 32.208 | 0.00116 | -0.01337 | 0.00006 | 0.00640 |
| 14 | 37.823 | 0.00032 | -0.31423 | 0.00002 | -0.02012 |
| 15 | 43.438 | -0.00795 | -0.97124 | -0.00069 | -0.08544 |
| 16 | 48.438 | -0.02263 | -1.74531 | -0.00204 | -0.16699 |
| 17 | 49.022 | -0.02464 | -1.83961 | -0.00223 | -0.17706 |
| 18 | 49.605 | -0.02669 | -1.93276 | -0.00241 | -0.18692 |
| 19 | 54.605 | -0.04649 | -2.44585 | -0.00350 | -0.22558 |
| 20 | 56.938 | -0.05355 | -2.25661 | -0.00310 | -0.18793 |
| 21 | 59.272 | -0.05002 | -1.45183 | -0.00121 | -0.08116 |
| 22 | 64.272 | 0.00544 | 1.34917 | 0.00754 | 0.25239 |
| 23 | 64.855 | 0.03177 | 1.72510 | 0.00928 | 0.29520 |
| 24 | 65.438 | 0.01671 | 1.51980 | 0.01072 | 0.33817 |
| 25 | 67.438 | -0.00859 | 0.81593 | 0.01294 | 0.48549 |
| 26 | 69.438 | -0.02365 | 0.11206 | 0.01481 | 0.63280 |
| 27 | 71.105 | -0.03586 | -0.47455 | 0.01674 | 0.75556 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 20
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section left appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00003 | -0.00816 | 0.00016 | 0.01884 |
| 2 | 5.208 | -0.00004 | -0.00802 | 0.00013 | 0.01930 |
| 3 | 7.708 | -0.00005 | -0.00795 | 0.00012 | 0.01954 |
| 4 | 10.208 | -0.00006 | -0.00789 | 0.00010 | 0.01979 |
| 5 | 10.792 | -0.00006 | -0.00788 | 0.00010 | 0.01985 |
| 6 | 11.375 | -0.00006 | -0.00787 | 0.00010 | 0.01991 |
| 7 | 16.375 | -0.00010 | -0.00769 | 0.00009 | 0.01995 |
| 8 | 18.708 | -0.00011 | -0.00776 | 0.00010 | 0.01987 |
| 9 | 21.042 | -0.00011 | -0.00824 | 0.00011 | 0.02012 |
| 10 | 26.042 | -0.00004 | -0.01022 | 0.00013 | 0.02196 |
| 11 | 26.625 | -0.00003 | -0.01051 | 0.00013 | 0.02227 |
| 12 | 27.208 | -0.00002 | -0.01082 | 0.00014 | 0.02259 |
| 13 | 32.208 | 0.00021 | -0.01527 | 0.00020 | 0.02681 |
| 14 | 37.823 | 0.00065 | -0.02347 | 0.00044 | 0.03578 |
| 15 | 43.438 | 0.00056 | -0.02446 | 0.00074 | 0.04470 |
| 16 | 48.438 | -0.00039 | -0.01467 | 0.00093 | 0.04882 |
| 17 | 49.022 | -0.00055 | -0.01314 | 0.00095 | 0.04913 |
| 18 | 49.605 | -0.00072 | -0.01159 | 0.00097 | 0.04942 |
| 19 | 54.605 | -0.00400 | 0.00291 | 0.00149 | 0.05021 |
| 20 | 56.938 | -0.00745 | 0.01063 | 0.00218 | 0.04953 |
| 21 | 59.272 | -0.01144 | 0.01905 | 0.00327 | 0.04858 |
| 22 | 64.272 | -0.00457 | 0.03731 | 0.00672 | 0.04789 |
| 23 | 64.855 | 0.00891 | 0.03945 | 0.00597 | 0.04796 |
| 24 | 65.438 | -0.01878 | -0.54185 | 0.00501 | 0.04805 |
| 25 | 67.438 | -0.07380 | -2.53480 | 0.00336 | 0.04834 |
| 26 | 69.438 | -0.11354 | -4.52762 | 0.00277 | 0.04863 |
| 27 | 71.105 | -0.14629 | -6.18834 | 0.00256 | 0.04889 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 21
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00002 | -0.00663 | 0.00012 | 0.01503 |
| 2 | 5.208 | -0.00004 | -0.00651 | 0.00010 | 0.01540 |
| 3 | 7.708 | -0.00004 | -0.00646 | 0.00009 | 0.01560 |
| 4 | 10.208 | -0.00005 | -0.00641 | 0.00008 | 0.01580 |
| 5 | 10.792 | -0.00005 | -0.00640 | 0.00008 | 0.01585 |
| 6 | 11.375 | -0.00005 | -0.00639 | 0.00007 | 0.01590 |
| 7 | 16.375 | -0.00008 | -0.00625 | 0.00007 | 0.01592 |
| 8 | 18.708 | -0.00009 | -0.00631 | 0.00007 | 0.01586 |
| 9 | 21.042 | -0.00009 | -0.00669 | 0.00009 | 0.01606 |
| 10 | 26.042 | -0.00004 | -0.00830 | 0.00010 | 0.01754 |
| 11 | 26.625 | -0.00003 | -0.00853 | 0.00010 | 0.01779 |
| 12 | 27.208 | -0.00002 | -0.00878 | 0.00011 | 0.01805 |
| 13 | 32.208 | 0.00016 | -0.01238 | 0.00016 | 0.02145 |
| 14 | 37.823 | 0.00052 | -0.01902 | 0.00035 | 0.02868 |
| 15 | 43.438 | 0.00045 | -0.01984 | 0.00059 | 0.03587 |
| 16 | 48.438 | -0.00031 | -0.01196 | 0.00075 | 0.03918 |
| 17 | 49.022 | -0.00044 | -0.01073 | 0.00076 | 0.03943 |
| 18 | 49.605 | -0.00057 | -0.00948 | 0.00078 | 0.03967 |
| 19 | 54.605 | -0.00304 | 0.00222 | 0.00118 | 0.04030 |
| 20 | 56.938 | -0.00536 | 0.00846 | 0.00166 | 0.03976 |
| 21 | 59.272 | -0.00768 | 0.01527 | 0.00237 | 0.03899 |
| 22 | 64.272 | -0.00324 | 0.03001 | 0.00402 | 0.03843 |
| 23 | 64.855 | 0.00383 | 0.03173 | 0.00340 | 0.03849 |
| 24 | 65.438 | 0.01605 | 0.03346 | 0.00272 | 0.03856 |
| 25 | 67.438 | -0.05566 | -1.96095 | 0.00191 | 0.03880 |
| 26 | 69.438 | -0.10004 | -3.95518 | 0.00177 | 0.03904 |
| 27 | 71.105 | -0.13444 | -5.61706 | 0.00174 | 0.03925 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 22
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00001 | -0.00268 | 0.00005 | 0.00563 |
| 2 | 5.208 | -0.00001 | -0.00264 | 0.00004 | 0.00577 |
| 3 | 7.708 | -0.00002 | -0.00262 | 0.00003 | 0.00585 |
| 4 | 10.208 | -0.00002 | -0.00260 | 0.00003 | 0.00593 |
| 5 | 10.792 | -0.00002 | -0.00259 | 0.00003 | 0.00595 |
| 6 | 11.375 | -0.00002 | -0.00259 | 0.00003 | 0.00597 |
| 7 | 16.375 | -0.00003 | -0.00253 | 0.00002 | 0.00598 |
| 8 | 18.708 | -0.00004 | -0.00256 | 0.00002 | 0.00595 |
| 9 | 21.042 | -0.00003 | -0.00271 | 0.00003 | 0.00602 |
| 10 | 26.042 | -0.00001 | -0.00335 | 0.00004 | 0.00659 |
| 11 | 26.625 | -0.00001 | -0.00344 | 0.00004 | 0.00669 |
| 12 | 27.208 | -0.00001 | -0.00354 | 0.00004 | 0.00679 |
| 13 | 32.208 | 0.00006 | -0.00498 | 0.00006 | 0.00811 |
| 14 | 37.823 | 0.00020 | -0.00763 | 0.00013 | 0.01091 |
| 15 | 43.438 | 0.00017 | -0.00800 | 0.00022 | 0.01369 |
| 16 | 48.438 | -0.00012 | -0.00490 | 0.00028 | 0.01498 |
| 17 | 49.022 | -0.00017 | -0.00441 | 0.00029 | 0.01507 |
| 18 | 49.605 | -0.00022 | -0.00392 | 0.00029 | 0.01516 |
| 19 | 54.605 | -0.00107 | 0.00071 | 0.00043 | 0.01541 |
| 20 | 56.938 | -0.00166 | 0.00318 | 0.00057 | 0.01520 |
| 21 | 59.272 | -0.00202 | 0.00589 | 0.00072 | 0.01491 |
| 22 | 64.272 | -0.00081 | 0.01173 | 0.00068 | 0.01469 |
| 23 | 64.855 | 0.00001 | 0.01240 | 0.00045 | 0.01471 |
| 24 | 65.438 | 0.00127 | 0.01307 | 0.00026 | 0.01474 |
| 25 | 67.438 | 0.02046 | 0.01545 | 0.00023 | 0.01483 |
| 26 | 69.438 | -0.05880 | -1.98248 | 0.00036 | 0.01493 |
| 27 | 71.105 | -0.10142 | -3.64730 | 0.00043 | 0.01501 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 23
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 5 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00000 | -0.00072 | 0.00001 | 0.00104 |
| 2 | 5.208 | 0.00000 | -0.00071 | 0.00001 | 0.00107 |
| 3 | 7.708 | 0.00000 | -0.00070 | 0.00001 | 0.00109 |
| 4 | 10.208 | -0.00001 | -0.00070 | 0.00000 | 0.00110 |
| 5 | 10.792 | -0.00001 | -0.00069 | 0.00000 | 0.00111 |
| 6 | 11.375 | -0.00001 | -0.00069 | 0.00000 | 0.00111 |
| 7 | 16.375 | -0.00001 | -0.00068 | 0.00000 | 0.00111 |
| 8 | 18.708 | -0.00001 | -0.00069 | 0.00000 | 0.00110 |
| 9 | 21.042 | -0.00001 | -0.00073 | 0.00000 | 0.00112 |
| 10 | 26.042 | 0.00000 | -0.00089 | 0.00001 | 0.00123 |
| 11 | 26.625 | 0.00000 | -0.00092 | 0.00001 | 0.00125 |
| 12 | 27.208 | 0.00000 | -0.00094 | 0.00001 | 0.00127 |
| 13 | 32.208 | 0.00002 | -0.00132 | 0.00001 | 0.00152 |
| 14 | 37.823 | 0.00005 | -0.00202 | 0.00002 | 0.00205 |
| 15 | 43.438 | 0.00004 | -0.00212 | 0.00004 | 0.00259 |
| 16 | 48.438 | -0.00003 | -0.00133 | 0.00005 | 0.00283 |
| 17 | 49.022 | -0.00004 | -0.00120 | 0.00005 | 0.00285 |
| 18 | 49.605 | -0.00006 | -0.00107 | 0.00006 | 0.00287 |
| 19 | 54.605 | -0.00026 | 0.00013 | 0.00008 | 0.00291 |
| 20 | 56.938 | -0.00038 | 0.00078 | 0.00010 | 0.00287 |
| 21 | 59.272 | -0.00042 | 0.00148 | 0.00012 | 0.00282 |
| 22 | 64.272 | -0.00016 | 0.00300 | 0.00009 | 0.00278 |
| 23 | 64.855 | -0.00009 | 0.00317 | 0.00006 | 0.00278 |
| 24 | 65.438 | -0.00002 | 0.00335 | 0.00003 | 0.00279 |
| 25 | 67.438 | 0.00122 | 0.00394 | 0.00002 | 0.00281 |
| 26 | 69.438 | 0.01597 | 0.00461 | 0.00005 | 0.00283 |
| 27 | 71.105 | -0.06346 | -1.66184 | 0.00006 | 0.00284 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 24
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 6 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.01076 | 0.73947 | -0.01773 | -0.97602 |
| 2 | 5.208 | 0.00884 | 0.63715 | -0.01077 | -0.60368 |
| 3 | 7.708 | 0.00786 | 0.58803 | -0.00723 | -0.42492 |
| 4 | 10.208 | 0.00680 | 0.53892 | -0.00345 | -0.24613 |
| 5 | 10.792 | 0.00653 | 0.52746 | -0.00250 | -0.20441 |
| 6 | 11.375 | 0.00624 | 0.51518 | -0.00155 | -0.16285 |
| 7 | 16.375 | 0.00280 | 0.28942 | 0.00423 | 0.16121 |
| 8 | 18.708 | 0.00062 | 0.12254 | 0.00545 | 0.26416 |
| 9 | 21.042 | -0.00132 | -0.03421 | 0.00533 | 0.29782 |
| 10 | 26.042 | -0.00345 | -0.20546 | 0.00360 | 0.24891 |
| 11 | 26.625 | -0.00352 | -0.21002 | 0.00338 | 0.23770 |
| 12 | 27.208 | -0.00357 | -0.21366 | 0.00315 | 0.22626 |
| 13 | 32.208 | -0.00377 | -0.23553 | 0.00144 | 0.13224 |
| 14 | 37.823 | -0.00313 | -0.22634 | 0.00034 | 0.05204 |
| 15 | 43.438 | -0.00218 | -0.19723 | 0.00007 | 0.01483 |
| 16 | 48.438 | -0.00175 | -0.17984 | 0.00006 | 0.00553 |
| 17 | 49.022 | -0.00172 | -0.17844 | 0.00006 | 0.00497 |
| 18 | 49.605 | -0.00169 | -0.17708 | 0.00006 | 0.00443 |
| 19 | 54.605 | -0.00150 | -0.16638 | 0.00005 | 0.00115 |
| 20 | 56.938 | -0.00145 | -0.16244 | 0.00005 | 0.00062 |
| 21 | 59.272 | -0.00144 | -0.15971 | 0.00005 | 0.00078 |
| 22 | 64.272 | -0.00143 | -0.15545 | 0.00004 | 0.00126 |
| 23 | 64.855 | -0.00143 | -0.15499 | 0.00004 | 0.00127 |
| 24 | 65.438 | -0.00143 | -0.15454 | 0.00004 | 0.00126 |
| 25 | 67.438 | -0.00142 | -0.15298 | 0.00003 | 0.00126 |
| 26 | 69.438 | -0.00141 | -0.15143 | 0.00003 | 0.00126 |
| 27 | 71.105 | -0.00140 | -0.15014 | 0.00002 | 0.00125 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 25
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 6 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00907 | 0.64748 | -0.01577 | -0.87321 |
| 2 | 5.208 | 0.00744 | 0.55442 | -0.00912 | -0.51849 |
| 3 | 7.708 | 0.00662 | 0.50974 | -0.00573 | -0.34818 |
| 4 | 10.208 | 0.00576 | 0.46506 | -0.00214 | -0.17785 |
| 5 | 10.792 | 0.00555 | 0.45464 | -0.00126 | -0.13810 |
| 6 | 11.375 | 0.00534 | 0.44352 | -0.00038 | -0.09851 |
| 7 | 16.375 | 0.00243 | 0.24484 | 0.00503 | 0.20783 |
| 8 | 18.708 | 0.00056 | 0.09991 | 0.00613 | 0.30220 |
| 9 | 21.042 | -0.00112 | -0.03518 | 0.00588 | 0.32753 |
| 10 | 26.042 | -0.00295 | -0.18091 | 0.00387 | 0.26221 |
| 11 | 26.625 | -0.00301 | -0.18455 | 0.00360 | 0.24921 |
| 12 | 27.208 | -0.00305 | -0.18738 | 0.00334 | 0.23599 |
| 13 | 32.208 | -0.00322 | -0.20380 | 0.00135 | 0.12803 |
| 14 | 37.823 | -0.00267 | -0.19399 | 0.00012 | 0.03832 |
| 15 | 43.438 | -0.00186 | -0.16819 | -0.00012 | -0.00116 |
| 16 | 48.438 | -0.00148 | -0.15311 | -0.00009 | -0.01016 |
| 17 | 49.022 | -0.00146 | -0.15190 | -0.00009 | -0.01067 |
| 18 | 49.605 | -0.00143 | -0.15073 | -0.00009 | -0.01115 |
| 19 | 54.605 | -0.00127 | -0.14153 | -0.00008 | -0.01392 |
| 20 | 56.938 | -0.00123 | -0.13818 | -0.00008 | -0.01416 |
| 21 | 59.272 | -0.00122 | -0.13587 | -0.00008 | -0.01372 |
| 22 | 64.272 | -0.00121 | -0.13227 | -0.00009 | -0.01278 |
| 23 | 64.855 | -0.00121 | -0.13188 | -0.00009 | -0.01273 |
| 24 | 65.438 | -0.00121 | -0.13149 | -0.00009 | -0.01269 |
| 25 | 67.438 | -0.00120 | -0.13017 | -0.00010 | -0.01255 |
| 26 | 69.438 | -0.00120 | -0.12885 | -0.00010 | -0.01242 |
| 27 | 71.105 | -0.00119 | -0.12775 | -0.00011 | -0.01231 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 26
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 6 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00088 | 0.04199 | -0.00608 | -0.27634 |
| 2 | 5.208 | 0.00039 | 0.01313 | -0.00160 | -0.03291 |
| 3 | 7.708 | 0.00015 | -0.00073 | 0.00067 | 0.08399 |
| 4 | 10.208 | -0.00010 | -0.01460 | 0.00302 | 0.20093 |
| 5 | 10.792 | -0.00016 | -0.01783 | 0.00358 | 0.22822 |
| 6 | 11.375 | -0.00022 | -0.02104 | 0.00414 | 0.25531 |
| 7 | 16.375 | -0.00062 | -0.04374 | 0.00787 | 0.44668 |
| 8 | 18.708 | -0.00070 | -0.04821 | 0.00855 | 0.48397 |
| 9 | 21.042 | -0.00063 | -0.04477 | 0.00793 | 0.45408 |
| 10 | 26.042 | -0.00027 | -0.02496 | 0.00447 | 0.28375 |
| 11 | 26.625 | -0.00021 | -0.02215 | 0.00396 | 0.25964 |
| 12 | 27.208 | -0.00016 | -0.01933 | 0.00345 | 0.23543 |
| 13 | 32.208 | 0.00021 | 0.00281 | -0.00018 | 0.04312 |
| 14 | 37.823 | 0.00034 | 0.01823 | -0.00193 | -0.09788 |
| 15 | 43.438 | 0.00027 | 0.02227 | -0.00174 | -0.14267 |
| 16 | 48.438 | 0.00021 | 0.02201 | -0.00141 | -0.14542 |
| 17 | 49.022 | 0.00021 | 0.02195 | -0.00139 | -0.14530 |
| 18 | 49.605 | 0.00021 | 0.02188 | -0.00137 | -0.14515 |
| 19 | 54.605 | 0.00018 | 0.02120 | -0.00123 | -0.14221 |
| 20 | 56.938 | 0.00018 | 0.02080 | -0.00119 | -0.13981 |
| 21 | 59.272 | 0.00018 | 0.02041 | -0.00119 | -0.13711 |
| 22 | 64.272 | 0.00018 | 0.01975 | -0.00119 | -0.13249 |
| 23 | 64.855 | 0.00018 | 0.01969 | -0.00119 | -0.13209 |
| 24 | 65.438 | 0.00018 | 0.01963 | -0.00119 | -0.13170 |
| 25 | 67.438 | 0.00018 | 0.01943 | -0.00119 | -0.13036 |
| 26 | 69.438 | 0.00018 | 0.01923 | -0.00119 | -0.12904 |
| 27 | 71.105 | 0.00018 | 0.01906 | -0.00119 | -0.12794 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 27
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 7 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00165 | 0.17487 | -0.00279 | -0.29317 |
| 2 | 5.208 | 0.00168 | 0.18020 | -0.00281 | -0.30206 |
| 3 | 7.708 | 0.00169 | 0.18279 | -0.00282 | -0.30638 |
| 4 | 10.208 | 0.00170 | 0.18540 | -0.00282 | -0.31075 |
| 5 | 10.792 | 0.00170 | 0.18601 | -0.00282 | -0.31177 |
| 6 | 11.375 | 0.00170 | 0.18663 | -0.00282 | -0.31281 |
| 7 | 16.375 | 0.00171 | 0.19256 | -0.00281 | -0.32370 |
| 8 | 18.708 | 0.00172 | 0.19622 | -0.00283 | -0.33016 |
| 9 | 21.042 | 0.00179 | 0.20104 | -0.00293 | -0.33721 |
| 10 | 26.042 | 0.00205 | 0.21317 | -0.00336 | -0.35110 |
| 11 | 26.625 | 0.00208 | 0.21465 | -0.00342 | -0.35253 |
| 12 | 27.208 | 0.00213 | 0.21616 | -0.00349 | -0.35397 |
| 13 | 32.208 | 0.00274 | 0.23375 | -0.00454 | -0.36532 |
| 14 | 37.823 | 0.00397 | 0.25351 | -0.00619 | -0.32792 |
| 15 | 43.438 | 0.00437 | 0.23043 | -0.00485 | -0.14084 |
| 16 | 48.438 | 0.00321 | 0.16360 | 0.00040 | 0.14272 |
| 17 | 49.022 | 0.00299 | 0.15427 | 0.00124 | 0.17915 |
| 18 | 49.605 | 0.00275 | 0.14405 | 0.00208 | 0.21562 |
| 19 | 54.605 | -0.00038 | -0.06704 | 0.00720 | 0.50315 |
| 20 | 56.938 | -0.00251 | -0.23063 | 0.00829 | 0.59507 |
| 21 | 59.272 | -0.00450 | -0.38850 | 0.00817 | 0.62240 |
| 22 | 64.272 | -0.00687 | -0.56878 | 0.00646 | 0.56212 |
| 23 | 64.855 | -0.00697 | -0.57464 | 0.00622 | 0.54935 |
| 24 | 65.438 | -0.00705 | -0.57963 | 0.00598 | 0.53632 |
| 25 | 67.438 | -0.00735 | -0.59676 | 0.00517 | 0.49165 |
| 26 | 69.438 | -0.00765 | -0.61389 | 0.00437 | 0.44701 |
| 27 | 71.105 | -0.00789 | -0.62817 | 0.00371 | 0.40981 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 28
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Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 7 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00144 | 0.15300 | -0.00253 | -0.26579 |
| 2 | 5.208 | 0.00146 | 0.15763 | -0.00254 | -0.27380 |
| 3 | 7.708 | 0.00147 | 0.15987 | -0.00255 | -0.27771 |
| 4 | 10.208 | 0.00148 | 0.16214 | -0.00256 | -0.28165 |
| 5 | 10.792 | 0.00149 | 0.16267 | -0.00256 | -0.28258 |
| 6 | 11.375 | 0.00149 | 0.16321 | -0.00256 | -0.28351 |
| 7 | 16.375 | 0.00150 | 0.16836 | -0.00255 | -0.29343 |
| 8 | 18.708 | 0.00151 | 0.17155 | -0.00257 | -0.29931 |
| 9 | 21.042 | 0.00156 | 0.17579 | -0.00265 | -0.30563 |
| 10 | 26.042 | 0.00178 | 0.18651 | -0.00303 | -0.31779 |
| 11 | 26.625 | 0.00181 | 0.18782 | -0.00309 | -0.31902 |
| 12 | 27.208 | 0.00185 | 0.18917 | -0.00315 | -0.32025 |
| 13 | 32.208 | 0.00235 | 0.20483 | -0.00406 | -0.32933 |
| 14 | 37.823 | 0.00334 | 0.22232 | -0.00540 | -0.29023 |
| 15 | 43.438 | 0.00362 | 0.20092 | -0.00387 | -0.10870 |
| 16 | 48.438 | 0.00266 | 0.13993 | 0.00123 | 0.16284 |
| 17 | 49.022 | 0.00250 | 0.13143 | 0.00202 | 0.19765 |
| 18 | 49.605 | 0.00232 | 0.12216 | 0.00280 | 0.23248 |
| 19 | 54.605 | -0.00032 | -0.06331 | 0.00761 | 0.50477 |
| 20 | 56.938 | -0.00215 | -0.20525 | 0.00860 | 0.58877 |
| 21 | 59.272 | -0.00387 | -0.34123 | 0.00835 | 0.60780 |
| 22 | 64.272 | -0.00589 | -0.49456 | 0.00631 | 0.53028 |
| 23 | 64.855 | -0.00598 | -0.49928 | 0.00602 | 0.51558 |
| 24 | 65.438 | -0.00605 | -0.50325 | 0.00574 | 0.50063 |
| 25 | 67.438 | -0.00630 | -0.51688 | 0.00478 | 0.44939 |
| 26 | 69.438 | -0.00655 | -0.53050 | 0.00384 | 0.39816 |
| 27 | 71.105 | -0.00675 | -0.54186 | 0.00306 | 0.35548 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 29
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 7 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00017 | 0.01778 | -0.00112 | -0.11902 |
| 2 | 5.208 | 0.00017 | 0.01830 | -0.00113 | -0.12254 |
| 3 | 7.708 | 0.00017 | 0.01856 | -0.00113 | -0.12425 |
| 4 | 10.208 | 0.00017 | 0.01882 | -0.00113 | -0.12598 |
| 5 | 10.792 | 0.00017 | 0.01888 | -0.00114 | -0.12638 |
| 6 | 11.375 | 0.00017 | 0.01895 | -0.00114 | -0.12680 |
| 7 | 16.375 | 0.00017 | 0.01963 | -0.00113 | -0.13156 |
| 8 | 18.708 | 0.00017 | 0.02003 | -0.00114 | -0.13432 |
| 9 | 21.042 | 0.00018 | 0.02044 | -0.00118 | -0.13678 |
| 10 | 26.042 | 0.00020 | 0.02115 | -0.00132 | -0.13985 |
| 11 | 26.625 | 0.00020 | 0.02121 | -0.00134 | -0.14001 |
| 12 | 27.208 | 0.00021 | 0.02128 | -0.00137 | -0.14015 |
| 13 | 32.208 | 0.00026 | 0.02157 | -0.00169 | -0.13749 |
| 14 | 37.823 | 0.00034 | 0.01757 | -0.00188 | -0.09272 |
| 15 | 43.438 | 0.00020 | 0.00217 | -0.00014 | 0.04836 |
| 16 | 48.438 | -0.00017 | -0.01997 | 0.00350 | 0.24078 |
| 17 | 49.022 | -0.00022 | -0.02279 | 0.00401 | 0.26500 |
| 18 | 49.605 | -0.00027 | -0.02560 | 0.00452 | 0.28913 |
| 19 | 54.605 | -0.00064 | -0.04542 | 0.00798 | 0.45955 |
| 20 | 56.938 | -0.00070 | -0.04886 | 0.00861 | 0.48947 |
| 21 | 59.272 | -0.00063 | -0.04441 | 0.00794 | 0.45221 |
| 22 | 64.272 | -0.00022 | -0.02172 | 0.00420 | 0.26091 |
| 23 | 64.855 | -0.00016 | -0.01851 | 0.00364 | 0.23384 |
| 24 | 65.438 | -0.00010 | -0.01527 | 0.00308 | 0.20656 |
| 25 | 67.438 | 0.00010 | -0.00418 | 0.00118 | 0.11304 |
| 26 | 69.438 | 0.00030 | 0.00691 | -0.00067 | 0.01953 |
| 27 | 71.105 | 0.00046 | 0.01615 | -0.00220 | -0.05839 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 30
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section top appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.16010 | -8.62824 | -0.03033 | -1.16330 |
| 2 | 5.208 | -0.09991 | -5.27364 | -0.03458 | -0.99520 |
| 3 | 7.708 | -0.07005 | -3.66306 | -0.04363 | -0.91462 |
| 4 | 10.208 | -0.03418 | -2.05219 | -0.05775 | -0.83409 |
| 5 | 10.792 | -0.02272 | -1.67622 | -0.05916 | -0.81528 |
| 6 | 11.375 | -0.01116 | -1.30251 | -0.05787 | -0.79641 |
| 7 | 16.375 | 0.03855 | 1.48004 | -0.02373 | -0.62633 |
| 8 | 18.708 | 0.04623 | 2.27672 | -0.01531 | -0.54322 |
| 9 | 21.042 | 0.04266 | 2.45857 | -0.00980 | -0.46154 |
| 10 | 26.042 | 0.02613 | 1.93111 | -0.00415 | -0.29919 |
| 11 | 26.625 | 0.02425 | 1.83636 | -0.00373 | -0.28137 |
| 12 | 27.208 | 0.02240 | 1.74049 | -0.00332 | -0.26367 |
| 13 | 32.208 | 0.00867 | 0.95619 | -0.00048 | -0.12007 |
| 14 | 37.823 | 0.00045 | 0.29990 | 0.00088 | -0.00431 |
| 15 | 43.438 | -0.00087 | 0.00717 | 0.00075 | 0.04317 |
| 16 | 48.438 | -0.00061 | -0.06078 | 0.00053 | 0.05224 |
| 17 | 49.022 | -0.00059 | -0.06469 | 0.00052 | 0.05267 |
| 18 | 49.605 | -0.00058 | -0.06836 | 0.00051 | 0.05308 |
| 19 | 54.605 | -0.00049 | -0.08959 | 0.00042 | 0.05478 |
| 20 | 56.938 | -0.00047 | -0.09166 | 0.00041 | 0.05432 |
| 21 | 59.272 | -0.00048 | -0.08855 | 0.00041 | 0.05313 |
| 22 | 64.272 | -0.00055 | -0.08182 | 0.00043 | 0.05084 |
| 23 | 64.855 | -0.00056 | -0.08150 | 0.00043 | 0.05067 |
| 24 | 65.438 | -0.00057 | -0.08123 | 0.00044 | 0.05050 |
| 25 | 67.438 | -0.00061 | -0.08028 | 0.00044 | 0.04994 |
| 26 | 69.438 | -0.00065 | -0.07936 | 0.00045 | 0.04937 |
| 27 | 71.105 | -0.00068 | -0.07859 | 0.00046 | 0.04891 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 31
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.14244 | -7.75592 | -0.02737 | -1.06385 |
| 2 | 5.208 | -0.08723 | -4.72194 | -0.03036 | -0.91027 |
| 3 | 7.708 | -0.05938 | -3.26527 | -0.03712 | -0.83665 |
| 4 | 10.208 | -0.02839 | -1.80835 | -0.04747 | -0.76307 |
| 5 | 10.792 | -0.01997 | -1.46831 | -0.04844 | -0.74589 |
| 6 | 11.375 | -0.01156 | -1.13041 | -0.04740 | -0.72864 |
| 7 | 16.375 | 0.03342 | 1.37191 | -0.02061 | -0.57120 |
| 8 | 18.708 | 0.04100 | 2.07799 | -0.01356 | -0.49325 |
| 9 | 21.042 | 0.03809 | 2.22716 | -0.00880 | -0.41664 |
| 10 | 26.042 | 0.02323 | 1.73122 | -0.00373 | -0.26642 |
| 11 | 26.625 | 0.02154 | 1.64478 | -0.00335 | -0.25016 |
| 12 | 27.208 | 0.01988 | 1.55743 | -0.00298 | -0.23401 |
| 13 | 32.208 | 0.00750 | 0.84363 | -0.00039 | -0.10320 |
| 14 | 37.823 | 0.00015 | 0.24932 | 0.00085 | 0.00166 |
| 15 | 43.438 | -0.00099 | -0.01308 | 0.00074 | 0.04412 |
| 16 | 48.438 | -0.00072 | -0.07287 | 0.00053 | 0.05197 |
| 17 | 49.022 | -0.00071 | -0.07627 | 0.00052 | 0.05234 |
| 18 | 49.605 | -0.00069 | -0.07946 | 0.00050 | 0.05267 |
| 19 | 54.605 | -0.00060 | -0.09760 | 0.00043 | 0.05395 |
| 20 | 56.938 | -0.00058 | -0.09906 | 0.00041 | 0.05341 |
| 21 | 59.272 | -0.00058 | -0.09597 | 0.00042 | 0.05223 |
| 22 | 64.272 | -0.00064 | -0.08945 | 0.00043 | 0.05001 |
| 23 | 64.855 | -0.00065 | -0.08913 | 0.00044 | 0.04984 |
| 24 | 65.438 | -0.00066 | -0.08883 | 0.00044 | 0.04968 |
| 25 | 67.438 | -0.00070 | -0.08783 | 0.00044 | 0.04913 |
| 26 | 69.438 | -0.00073 | -0.08684 | 0.00045 | 0.04858 |
| 27 | 71.105 | -0.00076 | -0.08603 | 0.00045 | 0.04812 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 32
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.07392 | -4.10777 | -0.01502 | -0.64014 |
| 2 | 5.208 | -0.04337 | -2.41482 | -0.01480 | -0.54757 |
| 3 | 7.708 | -0.02795 | -1.60198 | -0.01576 | -0.50317 |
| 4 | 10.208 | -0.01206 | -0.78901 | -0.01712 | -0.45879 |
| 5 | 10.792 | -0.00829 | -0.59928 | -0.01712 | -0.44843 |
| 6 | 11.375 | -0.00456 | -0.41115 | -0.01675 | -0.43798 |
| 7 | 16.375 | 0.01881 | 0.91959 | -0.00937 | -0.33394 |
| 8 | 18.708 | 0.02260 | 1.24727 | -0.00666 | -0.27798 |
| 9 | 21.042 | 0.02048 | 1.26025 | -0.00453 | -0.22299 |
| 10 | 26.042 | 0.01148 | 0.89674 | -0.00182 | -0.12424 |
| 11 | 26.625 | 0.01052 | 0.84509 | -0.00159 | -0.11453 |
| 12 | 27.208 | 0.00958 | 0.79335 | -0.00138 | -0.10494 |
| 13 | 32.208 | 0.00261 | 0.37434 | 0.00014 | -0.02825 |
| 14 | 37.823 | -0.00126 | 0.03852 | 0.00082 | 0.02987 |
| 15 | 43.438 | -0.00153 | -0.09785 | 0.00068 | 0.05023 |
| 16 | 48.438 | -0.00121 | -0.12387 | 0.00052 | 0.05251 |
| 17 | 49.022 | -0.00119 | -0.12516 | 0.00051 | 0.05254 |
| 18 | 49.605 | -0.00117 | -0.12635 | 0.00050 | 0.05256 |
| 19 | 54.605 | -0.00103 | -0.13172 | 0.00044 | 0.05191 |
| 20 | 56.938 | -0.00100 | -0.13072 | 0.00043 | 0.05106 |
| 21 | 59.272 | -0.00100 | -0.12768 | 0.00043 | 0.05000 |
| 22 | 64.272 | -0.00103 | -0.12202 | 0.00044 | 0.04815 |
| 23 | 64.855 | -0.00103 | -0.12163 | 0.00044 | 0.04800 |
| 24 | 65.438 | -0.00103 | -0.12126 | 0.00044 | 0.04785 |
| 25 | 67.438 | -0.00105 | -0.12000 | 0.00044 | 0.04734 |
| 26 | 69.438 | -0.00106 | -0.11874 | 0.00044 | 0.04683 |
| 27 | 71.105 | -0.00107 | -0.11770 | 0.00044 | 0.04641 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 33
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 8 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.01011 | -0.49863 | -0.00443 | -0.23272 |
| 2 | 5.208 | -0.00386 | -0.13241 | -0.00403 | -0.20082 |
| 3 | 7.708 | -0.00073 | 0.04344 | -0.00393 | -0.18550 |
| 4 | 10.208 | 0.00240 | 0.21933 | -0.00380 | -0.17020 |
| 5 | 10.792 | 0.00310 | 0.26038 | -0.00373 | -0.16662 |
| 6 | 11.375 | 0.00378 | 0.30036 | -0.00363 | -0.16294 |
| 7 | 16.375 | 0.00694 | 0.47253 | -0.00222 | -0.11426 |
| 8 | 18.708 | 0.00618 | 0.42636 | -0.00153 | -0.08242 |
| 9 | 21.042 | 0.00412 | 0.30515 | -0.00092 | -0.05111 |
| 10 | 26.042 | 0.00017 | 0.07320 | -0.00006 | -0.00528 |
| 11 | 26.625 | -0.00013 | 0.05598 | 0.00001 | -0.00200 |
| 12 | 27.208 | -0.00041 | 0.03947 | 0.00008 | 0.00115 |
| 13 | 32.208 | -0.00232 | -0.08817 | 0.00053 | 0.02532 |
| 14 | 37.823 | -0.00280 | -0.16930 | 0.00065 | 0.04001 |
| 15 | 43.438 | -0.00213 | -0.18214 | 0.00049 | 0.04150 |
| 16 | 48.438 | -0.00170 | -0.17521 | 0.00039 | 0.03968 |
| 17 | 49.022 | -0.00168 | -0.17444 | 0.00038 | 0.03949 |
| 18 | 49.605 | -0.00165 | -0.17367 | 0.00038 | 0.03930 |
| 19 | 54.605 | -0.00147 | -0.16658 | 0.00033 | 0.03762 |
| 20 | 56.938 | -0.00142 | -0.16318 | 0.00032 | 0.03684 |
| 21 | 59.272 | -0.00141 | -0.16021 | 0.00032 | 0.03616 |
| 22 | 64.272 | -0.00141 | -0.15533 | 0.00032 | 0.03506 |
| 23 | 64.855 | -0.00141 | -0.15486 | 0.00032 | 0.03496 |
| 24 | 65.438 | -0.00141 | -0.15441 | 0.00032 | 0.03485 |
| 25 | 67.438 | -0.00140 | -0.15284 | 0.00032 | 0.03449 |
| 26 | 69.438 | -0.00140 | -0.15129 | 0.00032 | 0.03414 |
| 27 | 71.105 | -0.00139 | -0.14999 | 0.00032 | 0.03384 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 34
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section top appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.01278 | -2.33944 | 0.00768 | 0.46191 |
| 2 | 5.208 | -0.02883 | -3.32799 | 0.00416 | 0.30388 |
| 3 | 7.708 | -0.03688 | -3.80330 | 0.00236 | 0.22816 |
| 4 | 10.208 | -0.04515 | -4.27911 | 0.00049 | 0.15251 |
| 5 | 10.792 | -0.04712 | -4.39021 | 0.00003 | 0.13487 |
| 6 | 11.375 | -0.04910 | -4.49985 | -0.00044 | 0.11718 |
| 7 | 16.375 | -0.06568 | -5.13621 | -0.00651 | -0.04198 |
| 8 | 18.708 | -0.06930 | -5.01368 | -0.01210 | -0.11853 |
| 9 | 21.042 | -0.06274 | -4.31788 | -0.02038 | -0.19109 |
| 10 | 26.042 | -0.01864 | -1.86702 | -0.05451 | -0.32908 |
| 11 | 26.625 | -0.00843 | -1.53960 | -0.05606 | -0.34379 |
| 12 | 27.208 | 0.00179 | -1.21178 | -0.05505 | -0.35830 |
| 13 | 32.208 | 0.04817 | 1.34193 | -0.02578 | -0.46238 |
| 14 | 37.823 | 0.05739 | 3.03159 | -0.01373 | -0.49910 |
| 15 | 43.438 | 0.04175 | 3.37598 | -0.00692 | -0.46773 |
| 16 | 48.438 | 0.03224 | 3.27923 | -0.00445 | -0.43779 |
| 17 | 49.022 | 0.03161 | 3.26687 | -0.00430 | -0.43508 |
| 18 | 49.605 | 0.03102 | 3.25450 | -0.00416 | -0.43241 |
| 19 | 54.605 | 0.02715 | 3.13433 | -0.00331 | -0.40988 |
| 20 | 56.938 | 0.02628 | 3.07319 | -0.00316 | -0.40044 |
| 21 | 59.272 | 0.02615 | 3.01711 | -0.00320 | -0.39287 |
| 22 | 64.272 | 0.02633 | 2.92301 | -0.00336 | -0.38021 |
| 23 | 64.855 | 0.02634 | 2.91409 | -0.00337 | -0.37890 |
| 24 | 65.438 | 0.02634 | 2.90528 | -0.00339 | -0.37760 |
| 25 | 67.438 | 0.02633 | 2.87521 | -0.00342 | -0.37316 |
| 26 | 69.438 | 0.02633 | 2.84528 | -0.00345 | -0.36874 |
| 27 | 71.105 | 0.02632 | 2.82041 | -0.00348 | -0.36508 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 35
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.01090 | -2.05385 | 0.00711 | 0.43296 |
| 2 | 5.208 | -0.02541 | -2.95504 | 0.00389 | 0.28843 |
| 3 | 7.708 | -0.03268 | -3.38834 | 0.00225 | 0.21917 |
| 4 | 10.208 | -0.04016 | -3.82210 | 0.00054 | 0.14999 |
| 5 | 10.792 | -0.04193 | -3.92338 | 0.00013 | 0.13386 |
| 6 | 11.375 | -0.04372 | -4.02342 | -0.00030 | 0.11766 |
| 7 | 16.375 | -0.05865 | -4.61878 | -0.00574 | -0.03006 |
| 8 | 18.708 | -0.06162 | -4.52343 | -0.01058 | -0.10219 |
| 9 | 21.042 | -0.05510 | -3.90853 | -0.01750 | -0.17068 |
| 10 | 26.042 | -0.01556 | -1.70591 | -0.04414 | -0.29908 |
| 11 | 26.625 | -0.00800 | -1.40985 | -0.04535 | -0.31255 |
| 12 | 27.208 | -0.00043 | -1.11332 | -0.04464 | -0.32583 |
| 13 | 32.208 | 0.04131 | 1.19652 | -0.02244 | -0.42116 |
| 14 | 37.823 | 0.05097 | 2.72474 | -0.01236 | -0.45507 |
| 15 | 43.438 | 0.03738 | 3.03635 | -0.00630 | -0.42673 |
| 16 | 48.438 | 0.02896 | 2.94919 | -0.00408 | -0.39955 |
| 17 | 49.022 | 0.02840 | 2.93806 | -0.00394 | -0.39709 |
| 18 | 49.605 | 0.02787 | 2.92692 | -0.00382 | -0.39467 |
| 19 | 54.605 | 0.02443 | 2.81871 | -0.00304 | -0.37425 |
| 20 | 56.938 | 0.02365 | 2.76368 | -0.00291 | -0.36573 |
| 21 | 59.272 | 0.02352 | 2.71323 | -0.00294 | -0.35889 |
| 22 | 64.272 | 0.02367 | 2.62865 | -0.00308 | -0.34743 |
| 23 | 64.855 | 0.02368 | 2.62064 | -0.00309 | -0.34624 |
| 24 | 65.438 | 0.02368 | 2.61273 | -0.00310 | -0.34506 |
| 25 | 67.438 | 0.02367 | 2.58572 | -0.00313 | -0.34103 |
| 26 | 69.438 | 0.02366 | 2.55884 | -0.00316 | -0.33702 |
| 27 | 71.105 | 0.02365 | 2.53651 | -0.00318 | -0.33368 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 36
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00268 | -0.86933 | 0.00480 | 0.31306 |
| 2 | 5.208 | -0.01109 | -1.40575 | 0.00289 | 0.22516 |
| 3 | 7.708 | -0.01529 | -1.66365 | 0.00191 | 0.18303 |
| 4 | 10.208 | -0.01961 | -1.92181 | 0.00090 | 0.14094 |
| 5 | 10.792 | -0.02063 | -1.98209 | 0.00065 | 0.13112 |
| 6 | 11.375 | -0.02167 | -2.04205 | 0.00040 | 0.12121 |
| 7 | 16.375 | -0.03083 | -2.46609 | -0.00254 | 0.02201 |
| 8 | 18.708 | -0.03299 | -2.48426 | -0.00470 | -0.03107 |
| 9 | 21.042 | -0.02975 | -2.20731 | -0.00732 | -0.08197 |
| 10 | 26.042 | -0.00931 | -1.04200 | -0.01433 | -0.16952 |
| 11 | 26.625 | -0.00606 | -0.87694 | -0.01468 | -0.17780 |
| 12 | 27.208 | -0.00280 | -0.71121 | -0.01467 | -0.18590 |
| 13 | 32.208 | 0.01970 | 0.58106 | -0.01035 | -0.24435 |
| 14 | 37.823 | 0.02629 | 1.44146 | -0.00666 | -0.26589 |
| 15 | 43.438 | 0.01973 | 1.62360 | -0.00359 | -0.24973 |
| 16 | 48.438 | 0.01544 | 1.57947 | -0.00240 | -0.23394 |
| 17 | 49.022 | 0.01515 | 1.57365 | -0.00232 | -0.23252 |
| 18 | 49.605 | 0.01488 | 1.56781 | -0.00226 | -0.23112 |
| 19 | 54.605 | 0.01309 | 1.51058 | -0.00183 | -0.21940 |
| 20 | 56.938 | 0.01268 | 1.48116 | -0.00175 | -0.21455 |
| 21 | 59.272 | 0.01261 | 1.45404 | -0.00176 | -0.21069 |
| 22 | 64.272 | 0.01267 | 1.40864 | -0.00182 | -0.20419 |
| 23 | 64.855 | 0.01267 | 1.40436 | -0.00183 | -0.20351 |
| 24 | 65.438 | 0.01267 | 1.40014 | -0.00183 | -0.20284 |
| 25 | 67.438 | 0.01266 | 1.38573 | -0.00185 | -0.20053 |
| 26 | 69.438 | 0.01265 | 1.37139 | -0.00186 | -0.19824 |
| 27 | 71.105 | 0.01264 | 1.35947 | -0.00187 | -0.19634 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 37
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 9 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00585 | 0.29289 | 0.00232 | 0.16435 |
| 2 | 5.208 | 0.00316 | 0.11670 | 0.00169 | 0.13342 |
| 3 | 7.708 | 0.00181 | 0.03202 | 0.00137 | 0.11859 |
| 4 | 10.208 | 0.00043 | -0.05271 | 0.00104 | 0.10376 |
| 5 | 10.792 | 0.00011 | -0.07250 | 0.00096 | 0.10031 |
| 6 | 11.375 | -0.00023 | -0.09288 | 0.00088 | 0.09673 |
| 7 | 16.375 | -0.00441 | -0.34761 | -0.00007 | 0.04903 |
| 8 | 18.708 | -0.00652 | -0.47787 | -0.00070 | 0.01777 |
| 9 | 21.042 | -0.00737 | -0.53481 | -0.00136 | -0.01270 |
| 10 | 26.042 | -0.00471 | -0.39479 | -0.00270 | -0.05620 |
| 11 | 26.625 | -0.00411 | -0.35929 | -0.00280 | -0.05918 |
| 12 | 27.208 | -0.00351 | -0.32290 | -0.00285 | -0.06202 |
| 13 | 32.208 | 0.00126 | -0.03496 | -0.00254 | -0.08239 |
| 14 | 37.823 | 0.00339 | 0.17202 | -0.00185 | -0.08943 |
| 15 | 43.438 | 0.00283 | 0.23353 | -0.00110 | -0.08330 |
| 16 | 48.438 | 0.00226 | 0.23483 | -0.00078 | -0.07771 |
| 17 | 49.022 | 0.00222 | 0.23442 | -0.00076 | -0.07722 |
| 18 | 49.605 | 0.00219 | 0.23399 | -0.00074 | -0.07674 |
| 19 | 54.605 | 0.00195 | 0.22808 | -0.00063 | -0.07276 |
| 20 | 56.938 | 0.00189 | 0.22405 | -0.00060 | -0.07115 |
| 21 | 59.272 | 0.00187 | 0.21979 | -0.00060 | -0.06991 |
| 22 | 64.272 | 0.00188 | 0.21252 | -0.00061 | -0.06785 |
| 23 | 64.855 | 0.00188 | 0.21188 | -0.00061 | -0.06764 |
| 24 | 65.438 | 0.00188 | 0.21125 | -0.00061 | -0.06743 |
| 25 | 67.438 | 0.00188 | 0.20909 | -0.00062 | -0.06670 |
| 26 | 69.438 | 0.00189 | 0.20694 | -0.00062 | -0.06597 |
| 27 | 71.105 | 0.00189 | 0.20515 | -0.00062 | -0.06537 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 38
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section top appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.02493 | -2.61741 | -0.00339 | -0.34055 |
| 2 | 5.208 | -0.02506 | -2.69674 | -0.00333 | -0.35211 |
| 3 | 7.708 | -0.02509 | -2.73541 | -0.00330 | -0.35776 |
| 4 | 10.208 | -0.02511 | -2.77444 | -0.00326 | -0.36347 |
| 5 | 10.792 | -0.02512 | -2.78359 | -0.00325 | -0.36482 |
| 6 | 11.375 | -0.02512 | -2.79287 | -0.00324 | -0.36617 |
| 7 | 16.375 | -0.02498 | -2.89003 | -0.00308 | -0.37920 |
| 8 | 18.708 | -0.02513 | -2.94757 | -0.00304 | -0.38695 |
| 9 | 21.042 | -0.02602 | -3.01020 | -0.00319 | -0.39658 |
| 10 | 26.042 | -0.02993 | -3.13360 | -0.00405 | -0.41952 |
| 11 | 26.625 | -0.03053 | -3.14634 | -0.00419 | -0.42223 |
| 12 | 27.208 | -0.03117 | -3.15907 | -0.00434 | -0.42500 |
| 13 | 32.208 | -0.04070 | -3.25895 | -0.00681 | -0.45532 |
| 14 | 37.823 | -0.05635 | -2.91709 | -0.01362 | -0.48694 |
| 15 | 43.438 | -0.04710 | -1.22731 | -0.02568 | -0.45011 |
| 16 | 48.438 | -0.00068 | 1.32849 | -0.05494 | -0.34571 |
| 17 | 49.022 | 0.00955 | 1.65667 | -0.05596 | -0.33115 |
| 18 | 49.605 | 0.01976 | 1.98438 | -0.05440 | -0.31640 |
| 19 | 54.605 | 0.06393 | 4.43735 | -0.02028 | -0.17794 |
| 20 | 56.938 | 0.07055 | 5.13393 | -0.01200 | -0.10511 |
| 21 | 59.272 | 0.06697 | 5.25724 | -0.00641 | -0.02830 |
| 22 | 64.272 | 0.05042 | 4.62320 | -0.00034 | 0.13132 |
| 23 | 64.855 | 0.04844 | 4.51390 | 0.00014 | 0.14905 |
| 24 | 65.438 | 0.04647 | 4.40314 | 0.00059 | 0.16673 |
| 25 | 67.438 | 0.03982 | 4.02356 | 0.00211 | 0.22737 |
| 26 | 69.438 | 0.03326 | 3.64416 | 0.00359 | 0.28805 |
| 27 | 71.105 | 0.02785 | 3.32808 | 0.00480 | 0.33863 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 39
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.02240 | -2.35421 | -0.00310 | -0.31131 |
| 2 | 5.208 | -0.02252 | -2.42546 | -0.00305 | -0.32181 |
| 3 | 7.708 | -0.02256 | -2.46019 | -0.00302 | -0.32695 |
| 4 | 10.208 | -0.02258 | -2.49524 | -0.00298 | -0.33214 |
| 5 | 10.792 | -0.02258 | -2.50346 | -0.00297 | -0.33336 |
| 6 | 11.375 | -0.02259 | -2.51180 | -0.00296 | -0.33459 |
| 7 | 16.375 | -0.02247 | -2.59912 | -0.00282 | -0.34639 |
| 8 | 18.708 | -0.02262 | -2.65089 | -0.00279 | -0.35339 |
| 9 | 21.042 | -0.02341 | -2.70727 | -0.00293 | -0.36209 |
| 10 | 26.042 | -0.02690 | -2.81838 | -0.00371 | -0.38290 |
| 11 | 26.625 | -0.02743 | -2.82985 | -0.00384 | -0.38536 |
| 12 | 27.208 | -0.02799 | -2.84131 | -0.00397 | -0.38787 |
| 13 | 32.208 | -0.03644 | -2.93129 | -0.00620 | -0.41543 |
| 14 | 37.823 | -0.05004 | -2.62195 | -0.01226 | -0.44409 |
| 15 | 43.438 | -0.04036 | -1.09361 | -0.02235 | -0.41019 |
| 16 | 48.438 | 0.00142 | 1.21811 | -0.04455 | -0.31460 |
| 17 | 49.022 | 0.00900 | 1.51496 | -0.04526 | -0.30128 |
| 18 | 49.605 | 0.01656 | 1.81129 | -0.04404 | -0.28777 |
| 19 | 54.605 | 0.05617 | 4.01583 | -0.01741 | -0.15897 |
| 20 | 56.938 | 0.06273 | 4.63144 | -0.01049 | -0.09023 |
| 21 | 59.272 | 0.05980 | 4.72750 | -0.00566 | -0.01786 |
| 22 | 64.272 | 0.04490 | 4.13424 | -0.00021 | 0.13027 |
| 23 | 64.855 | 0.04311 | 4.03450 | 0.00022 | 0.14650 |
| 24 | 65.438 | 0.04134 | 3.93353 | 0.00063 | 0.16267 |
| 25 | 67.438 | 0.03533 | 3.58747 | 0.00202 | 0.21813 |
| 26 | 69.438 | 0.02940 | 3.24159 | 0.00337 | 0.27363 |
| 27 | 71.105 | 0.02451 | 2.95344 | 0.00448 | 0.31989 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 40
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.01198 | -1.26281 | -0.00181 | -0.18300 |
| 2 | 5.208 | -0.01205 | -1.30080 | -0.00179 | -0.18903 |
| 3 | 7.708 | -0.01207 | -1.31933 | -0.00178 | -0.19197 |
| 4 | 10.208 | -0.01209 | -1.33803 | -0.00176 | -0.19494 |
| 5 | 10.792 | -0.01209 | -1.34242 | -0.00176 | -0.19564 |
| 6 | 11.375 | -0.01209 | -1.34687 | -0.00175 | -0.19634 |
| 7 | 16.375 | -0.01205 | -1.39374 | -0.00169 | -0.20304 |
| 8 | 18.708 | -0.01214 | -1.42158 | -0.00168 | -0.20700 |
| 9 | 21.042 | -0.01256 | -1.45173 | -0.00176 | -0.21196 |
| 10 | 26.042 | -0.01436 | -1.51052 | -0.00219 | -0.22393 |
| 11 | 26.625 | -0.01464 | -1.51653 | -0.00226 | -0.22536 |
| 12 | 27.208 | -0.01493 | -1.52253 | -0.00233 | -0.22682 |
| 13 | 32.208 | -0.01924 | -1.56817 | -0.00353 | -0.24289 |
| 14 | 37.823 | -0.02580 | -1.38723 | -0.00660 | -0.25938 |
| 15 | 43.438 | -0.01920 | -0.52674 | -0.01030 | -0.23798 |
| 16 | 48.438 | 0.00332 | 0.76654 | -0.01461 | -0.17945 |
| 17 | 49.022 | 0.00659 | 0.93244 | -0.01462 | -0.17132 |
| 18 | 49.605 | 0.00984 | 1.09765 | -0.01428 | -0.16303 |
| 19 | 54.605 | 0.03031 | 2.26404 | -0.00727 | -0.07528 |
| 20 | 56.938 | 0.03356 | 2.54141 | -0.00465 | -0.02426 |
| 21 | 59.272 | 0.03142 | 2.52367 | -0.00248 | 0.02895 |
| 22 | 64.272 | 0.02227 | 2.10078 | 0.00046 | 0.12837 |
| 23 | 64.855 | 0.02124 | 2.04098 | 0.00071 | 0.13831 |
| 24 | 65.438 | 0.02021 | 1.98086 | 0.00096 | 0.14814 |
| 25 | 67.438 | 0.01674 | 1.77483 | 0.00178 | 0.18188 |
| 26 | 69.438 | 0.01332 | 1.56890 | 0.00258 | 0.21564 |
| 27 | 71.105 | 0.01049 | 1.39733 | 0.00324 | 0.24378 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 41
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 10 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | -0.00181 | -0.19226 | -0.00059 | -0.06059 |
| 2 | 5.208 | -0.00182 | -0.19791 | -0.00059 | -0.06251 |
| 3 | 7.708 | -0.00181 | -0.20068 | -0.00059 | -0.06345 |
| 4 | 10.208 | -0.00181 | -0.20347 | -0.00059 | -0.06439 |
| 5 | 10.792 | -0.00181 | -0.20413 | -0.00059 | -0.06462 |
| 6 | 11.375 | -0.00181 | -0.20480 | -0.00058 | -0.06484 |
| 7 | 16.375 | -0.00181 | -0.21228 | -0.00057 | -0.06697 |
| 8 | 18.708 | -0.00182 | -0.21665 | -0.00057 | -0.06824 |
| 9 | 21.042 | -0.00188 | -0.22079 | -0.00060 | -0.06988 |
| 10 | 26.042 | -0.00212 | -0.22694 | -0.00072 | -0.07394 |
| 11 | 26.625 | -0.00216 | -0.22740 | -0.00074 | -0.07443 |
| 12 | 27.208 | -0.00220 | -0.22784 | -0.00076 | -0.07493 |
| 13 | 32.208 | -0.00276 | -0.22676 | -0.00107 | -0.08062 |
| 14 | 37.823 | -0.00333 | -0.16540 | -0.00183 | -0.08685 |
| 15 | 43.438 | -0.00121 | 0.04161 | -0.00252 | -0.07985 |
| 16 | 48.438 | 0.00356 | 0.32970 | -0.00283 | -0.05944 |
| 17 | 49.022 | 0.00417 | 0.36611 | -0.00277 | -0.05660 |
| 18 | 49.605 | 0.00476 | 0.40163 | -0.00268 | -0.05361 |
| 19 | 54.605 | 0.00742 | 0.54189 | -0.00134 | -0.01006 |
| 20 | 56.938 | 0.00658 | 0.48508 | -0.00067 | 0.02044 |
| 21 | 59.272 | 0.00446 | 0.35496 | -0.00004 | 0.05172 |
| 22 | 64.272 | 0.00028 | 0.10043 | 0.00091 | 0.09948 |
| 23 | 64.855 | -0.00006 | 0.08007 | 0.00099 | 0.10306 |
| 24 | 65.438 | -0.00039 | 0.06030 | 0.00107 | 0.10653 |
| 25 | 67.438 | -0.00150 | -0.00743 | 0.00134 | 0.11841 |
| 26 | 69.438 | -0.00259 | -0.07515 | 0.00160 | 0.13030 |
| 27 | 71.105 | -0.00350 | -0.13157 | 0.00182 | 0.14021 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 42
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section top appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00086 | 0.08560 | 0.00046 | 0.04703 |
| 2 | 5.208 | 0.00077 | 0.08778 | 0.00045 | 0.04848 |
| 3 | 7.708 | 0.00072 | 0.08889 | 0.00044 | 0.04919 |
| 4 | 10.208 | 0.00067 | 0.09004 | 0.00043 | 0.04991 |
| 5 | 10.792 | 0.00066 | 0.09032 | 0.00043 | 0.05008 |
| 6 | 11.375 | 0.00065 | 0.09062 | 0.00043 | 0.05025 |
| 7 | 16.375 | 0.00057 | 0.09734 | 0.00041 | 0.05258 |
| 8 | 18.708 | 0.00055 | 0.10047 | 0.00040 | 0.05380 |
| 9 | 21.042 | 0.00057 | 0.09845 | 0.00042 | 0.05429 |
| 10 | 26.042 | 0.00065 | 0.07733 | 0.00050 | 0.05265 |
| 11 | 26.625 | 0.00067 | 0.07366 | 0.00051 | 0.05226 |
| 12 | 27.208 | 0.00068 | 0.06977 | 0.00053 | 0.05183 |
| 13 | 32.208 | 0.00096 | 0.00190 | 0.00075 | 0.04285 |
| 14 | 37.823 | -0.00034 | -0.29076 | 0.00088 | -0.00452 |
| 15 | 43.438 | -0.00852 | -0.94678 | -0.00048 | -0.12022 |
| 16 | 48.438 | -0.02225 | -1.73064 | -0.00332 | -0.26384 |
| 17 | 49.022 | -0.02410 | -1.82647 | -0.00372 | -0.28155 |
| 18 | 49.605 | -0.02597 | -1.92117 | -0.00414 | -0.29937 |
| 19 | 54.605 | -0.04250 | -2.44876 | -0.00978 | -0.46185 |
| 20 | 56.938 | -0.04610 | -2.26725 | -0.01527 | -0.54364 |
| 21 | 59.272 | -0.03858 | -1.47087 | -0.02368 | -0.62685 |
| 22 | 64.272 | 0.01000 | 1.31186 | -0.05749 | -0.79705 |
| 23 | 64.855 | 0.02286 | 1.68565 | -0.05867 | -0.81592 |
| 24 | 65.438 | 0.03549 | 2.06165 | -0.05712 | -0.83473 |
| 25 | 67.438 | 0.06521 | 3.35072 | -0.04576 | -0.89917 |
| 26 | 69.438 | 0.08989 | 4.63967 | -0.03815 | -0.96362 |
| 27 | 71.105 | 0.11043 | 5.71379 | -0.03527 | -1.01737 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 43
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section a appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00091 | 0.09114 | 0.00045 | 0.04564 |
| 2 | 5.208 | 0.00083 | 0.09350 | 0.00044 | 0.04707 |
| 3 | 7.708 | 0.00079 | 0.09470 | 0.00043 | 0.04777 |
| 4 | 10.208 | 0.00074 | 0.09593 | 0.00043 | 0.04847 |
| 5 | 10.792 | 0.00073 | 0.09622 | 0.00042 | 0.04864 |
| 6 | 11.375 | 0.00072 | 0.09654 | 0.00042 | 0.04881 |
| 7 | 16.375 | 0.00065 | 0.10306 | 0.00041 | 0.05107 |
| 8 | 18.708 | 0.00064 | 0.10618 | 0.00040 | 0.05227 |
| 9 | 21.042 | 0.00066 | 0.10476 | 0.00042 | 0.05284 |
| 10 | 26.042 | 0.00075 | 0.08674 | 0.00049 | 0.05161 |
| 11 | 26.625 | 0.00077 | 0.08356 | 0.00051 | 0.05128 |
| 12 | 27.208 | 0.00078 | 0.08017 | 0.00052 | 0.05092 |
| 13 | 32.208 | 0.00106 | 0.02047 | 0.00073 | 0.04312 |
| 14 | 37.823 | -0.00005 | -0.24184 | 0.00084 | 0.00071 |
| 15 | 43.438 | -0.00738 | -0.83591 | -0.00040 | -0.10416 |
| 16 | 48.438 | -0.01975 | -1.54931 | -0.00299 | -0.23502 |
| 17 | 49.022 | -0.02141 | -1.63663 | -0.00336 | -0.25118 |
| 18 | 49.605 | -0.02310 | -1.72302 | -0.00374 | -0.26744 |
| 19 | 54.605 | -0.03796 | -2.21908 | -0.00880 | -0.41777 |
| 20 | 56.938 | -0.04089 | -2.07021 | -0.01355 | -0.49447 |
| 21 | 59.272 | -0.03341 | -1.36439 | -0.02058 | -0.57249 |
| 22 | 64.272 | 0.01103 | 1.13810 | -0.04714 | -0.73002 |
| 23 | 64.855 | 0.02017 | 1.47607 | -0.04810 | -0.74727 |
| 24 | 65.438 | 0.02926 | 1.81612 | -0.04703 | -0.76445 |
| 25 | 67.438 | 0.05464 | 2.98198 | -0.03873 | -0.82333 |
| 26 | 69.438 | 0.07754 | 4.14776 | -0.03311 | -0.88223 |
| 27 | 71.105 | 0.09643 | 5.11922 | -0.03103 | -0.93134 |

VEH: R2 - TOLL ROAD BRUG(5.75.44) page 44
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section b appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00110 | 0.11478 | 0.00041 | 0.04263 |
| 2 | 5.208 | 0.00107 | 0.11798 | 0.00041 | 0.04397 |
| 3 | 7.708 | 0.00106 | 0.11956 | 0.00041 | 0.04462 |
| 4 | 10.208 | 0.00104 | 0.12117 | 0.00041 | 0.04528 |
| 5 | 10.792 | 0.00103 | 0.12155 | 0.00041 | 0.04543 |
| 6 | 11.375 | 0.00103 | 0.12195 | 0.00041 | 0.04559 |
| 7 | 16.375 | 0.00100 | 0.12769 | 0.00041 | 0.04748 |
| 8 | 18.708 | 0.00100 | 0.13077 | 0.00041 | 0.04857 |
| 9 | 21.042 | 0.00104 | 0.13183 | 0.00042 | 0.04943 |
| 10 | 26.042 | 0.00117 | 0.12661 | 0.00048 | 0.05011 |
| 11 | 26.625 | 0.00119 | 0.12543 | 0.00049 | 0.05009 |
| 12 | 27.208 | 0.00121 | 0.12416 | 0.00050 | 0.05006 |
| 13 | 32.208 | 0.00153 | 0.09827 | 0.00066 | 0.04778 |
| 14 | 37.823 | 0.00128 | -0.03798 | 0.00079 | 0.02737 |
| 15 | 43.438 | -0.00258 | -0.37367 | 0.00011 | -0.03087 |
| 16 | 48.438 | -0.00954 | -0.79251 | -0.00141 | -0.10764 |
| 17 | 49.022 | -0.01049 | -0.84424 | -0.00163 | -0.11724 |
| 18 | 49.605 | -0.01145 | -0.89587 | -0.00185 | -0.12697 |
| 19 | 54.605 | -0.02045 | -1.25946 | -0.00457 | -0.22577 |
| 20 | 56.938 | -0.02256 | -1.24663 | -0.00670 | -0.28077 |
| 21 | 59.272 | -0.01876 | -0.91908 | -0.00942 | -0.33674 |
| 22 | 64.272 | 0.00467 | 0.41173 | -0.01676 | -0.44081 |
| 23 | 64.855 | 0.00840 | 0.59990 | -0.01711 | -0.45127 |
| 24 | 65.438 | 0.01216 | 0.78964 | -0.01709 | -0.46164 |
| 25 | 67.438 | 0.02497 | 1.44018 | -0.01605 | -0.49717 |
| 26 | 69.438 | 0.03759 | 2.09067 | -0.01535 | -0.53271 |
| 27 | 71.105 | 0.04800 | 2.63273 | -0.01525 | -0.56233 |



VEH: R2 - TOLL ROAD BRUG(5.75.44) page 45
date 11/09/2009; time 13:26:00
Cline Avenue - Load Rating - Double Box - 4 Webs - 71.105' W

Slab 11 section c appendix

| Load at node | Distance | Moment concentr. | Moment u.d.l. | Axial force concentr. | Axial force u.d.l. |
|---|---|---|---|---|---|
| 1 | 0.000 | 0.00131 | 0.13904 | 0.00029 | 0.03097 |
| 2 | 5.208 | 0.00133 | 0.14316 | 0.00030 | 0.03192 |
| 3 | 7.708 | 0.00133 | 0.14517 | 0.00030 | 0.03238 |
| 4 | 10.208 | 0.00134 | 0.14720 | 0.00030 | 0.03284 |
| 5 | 10.792 | 0.00134 | 0.14768 | 0.00030 | 0.03295 |
| 6 | 11.375 | 0.00134 | 0.14816 | 0.00030 | 0.03306 |
| 7 | 16.375 | 0.00134 | 0.15321 | 0.00030 | 0.03420 |
| 8 | 18.708 | 0.00136 | 0.15626 | 0.00031 | 0.03489 |
| 9 | 21.042 | 0.00140 | 0.15974 | 0.00032 | 0.03569 |
| 10 | 26.042 | 0.00159 | 0.16699 | 0.00036 | 0.03741 |
| 11 | 26.625 | 0.00162 | 0.16777 | 0.00037 | 0.03759 |
| 12 | 27.208 | 0.00164 | 0.16856 | 0.00037 | 0.03778 |
| 13 | 32.208 | 0.00207 | 0.17565 | 0.00047 | 0.03962 |
| 14 | 37.823 | 0.00274 | 0.16295 | 0.00063 | 0.03813 |
| 15 | 43.438 | 0.00226 | 0.08184 | 0.00051 | 0.02340 |
| 16 | 48.438 | 0.00034 | -0.04587 | 0.00006 | -0.00082 |
| 17 | 49.022 | 0.00006 | -0.06239 | -0.00001 | -0.00398 |
| 18 | 49.605 | -0.00023 | -0.07962 | -0.00008 | -0.00726 |
| 19 | 54.605 | -0.00419 | -0.31163 | -0.00095 | -0.05311 |
| 20 | 56.938 | -0.00627 | -0.43285 | -0.00157 | -0.08442 |
| 21 | 59.272 | -0.00702 | -0.47901 | -0.00226 | -0.11626 |
| 22 | 64.272 | -0.00386 | -0.30688 | -0.00373 | -0.16497 |
| 23 | 64.855 | -0.00318 | -0.26691 | -0.00384 | -0.16866 |
| 24 | 65.438 | -0.00248 | -0.22588 | -0.00391 | -0.17223 |
| 25 | 67.438 | 0.00003 | -0.08519 | -0.00398 | -0.18450 |
| 26 | 69.438 | 0.00257 | 0.05548 | -0.00407 | -0.19676 |
| 27 | 71.105 | 0.00467 | 0.17270 | -0.00419 | -0.20698 |

```
 PROGRAM  : BRUG(5.75.44 DATE  : 11/09/2009 START : 13:26:00
 PROJECT  : VEH: R2 - TO DATE  : 11/09/2009 END   : 13:26:00
                                     TOTAL (msec) :        375
```