```
        -------------------------- PROGRAM BRUG(5.75.44)
        -------------------------
        - INPUTFILE  : 1II B_HL93_tandem_EL -  OUTPUTFILE :
        1II_B_HL93_tandem_EL -
        - DATE       :    11/09/200         -  TIME       :     13:23:22
        -

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


                          ********** 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: HL93- TANDEM - SINGLE VEHICLE
    5 |* code 1001
    6 |Cline Avenue - Load Rating - Double Box Mainline - 4 Webs - 55.625'
    Wide
    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      183.0    55.625    1.0       1.0       1.3
   13 |* code 1004
   14 |    1    0    2
   15 |* code 1005
   16 |   50    1
   17 |* code 1005a
   18 |* location traffic lanes
   19 |7.667
   20 |* maximum and minimum truck
   21 |6.667     48.958    10.000
   22 |* code 1007, linear loads
   23 |0.7350    0.441
   24 |54.890    0.441
   25 |* code 1201
   26 |    8    5    4    2    3
   27 |* code 1202 coordinates
   28 | 0.0000   0.0000
   29 |11.0000   0.0000
   30 |11.0000   -7.9375
   31 |27.9167   0.0000
   32 |27.9167   -7.9375
   33 |44.8333   0.0000
   34 |44.8333   -7.9375
   35 |55.6250   0.0000
   36 |* code 1203 - profile 1
   37 |    5    2    3    4
   38 |0.0000    0.7500
   39 |5.4167    0.7500
   40 |7.9167    1.2083
   41 |10.4167   1.6667
   42 |11.0000   1.6667
```



```
   43 |* code 1203 - profile 2
   44 |    7    2    3    4
   45 |0.0000    1.6667
           ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^
           ^    ^
           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 |0.5833    1.6667
 47 |5.5833    0.7500
 48 |8.4583    0.7500
 49 |11.3333   0.7500
 50 |16.3333   1.6667
 51 |16.9167   1.6667
 52 |* code 1203 - profile 3
 53 |    5    2    3    4
 54 |0.0000    1.6667
 55 |0.5833    1.6667
 56 |3.0833    1.2083
 57 |5.5833    0.7500
 58 |10.7917   0.7500
 59 |* code 1203 - profile 4
 60 |    7    2    4    5
 61 |0.0000    1.4583
 62 |0.5833    1.4583
 63 |1.5833    0.4583
 64 |8.4583    0.4583
 65 |15.3333   0.4583
 66 |16.3333   1.4583
 67 |16.9167   1.4583
 68 |* code 1203 - profile 5
 69 |    5    2    3    4
 70 |0.0000    1.1667
 71 |0.8334    1.1667
 72 |3.7709    1.1667
 73 |6.7084    1.1667
 74 |7.9375    1.1667
 75 |* code 1204 - assembling boxgirder
 76 |    1    2    1
 77 |    2    4    2
 78 |    4    6    2
 79 |    6    8    3
 80 |    3    5    4
 81 |    5    7    4
 82 |    2    3    5
 83 |    4    5    5
 84 |    6    7    5
 85 |* code 1205 control code
 86 |    1    2   13    1    1    0    4    2     1.0       1.0
 87 |* code 1206 wheels/axle
 88 |       0.0
 89 |       1.5
 90 |       6.0
 91 |       7.5 0.833
 92 |* code 1207 definition axles
 93 |0.0       0.5
 94 |4.0       0.5
 95 |* code 1208 - accuracy
          ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^
          ^    ^
          5   10   15   20   25   30   35   40   45   50   55   60   65   70
          75   80
```

1II_B_HL93_tandem_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 |0.00001   0.00001   0.00001   .00001    .00001
 97 |* code 1209 number sections
 98 |   33
 99 |   1A   1B   1C   1R   2L   2A   2B   2C   2R   3L   3A   3B   3C   3R
100 |   4L   4A   4B   4C   5A   5B   5C   6A   6B   6C
101 |   7L   7A   7B   8L   8A   8B   9L   9A   9B
102 |* code 1210 - density conrete
103 |0.156
104 |* code 1211 - extra forces selfweight
105 |
106 |* code 1212 - surcharge
107 |1.3906
108 |* code 1213 - Prestressing Layout - NONE
109 |
110 |
111 |
          ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^    ^
          ^    ^
          5   10   15   20   25   30   35   40   45   50   55   60   65   70
          75   80
```

VEH: HL93- TANDEM - BRUG(5.75.44) page 1
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

Length 250.000
Equivalent length 183.000

Data cross-section boxgidruker

Number of nodes	8
Number of profiles	5
Number of topslabs	4
Number of bottomslabs	2
Number of webs	3

Node coordinates

Number	z	y
1	0.000	0.000
2	11.000	0.000
3	11.000	-7.938
4	27.917	0.000
5	27.917	-7.938
6	44.833	0.000
7	44.833	-7.938
8	55.625	0.000

Slab data

num-ber	type	start node	end node	thickness	profile number	length
1	top	1	2	-	1	11.000
2	top	2	4	-	2	16.917
3	top	4	6	-	2	16.917
4	top	6	8	-	3	10.792
5	bottom	3	5	-	4	16.917
6	bottom	5	7	-	4	16.917
7	web	2	3	-	5	7.938
8	web	4	5	-	5	7.938
9	web	6	7	-	5	7.938

Data of profiles

Profile 1

section	z	thickness
1 (l)	0.000	0.750
2 (a)	5.417	0.750
3 (b)	7.917	1.208
4 (c)	10.417	1.667
5 (r)	11.000	1.667

VEH: HL93- TANDEM - BRUG(5.75.44) page 2
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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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)	8.458	0.750
5	11.333	0.750
6	16.333	1.667
7 (r)	16.917	1.667

Profile 3

section	z	thickness
1 (l)	0.000	1.667
2 (a)	0.583	1.667
3 (b)	3.083	1.208
4 (c)	5.583	0.750
5 (r)	10.792	0.750

Profile 4

section	z	thickness
1 (l)	0.000	1.458
2 (a)	0.583	1.458
3	1.583	0.458
4 (b)	8.458	0.458
5 (c)	15.333	0.458
6	16.333	1.458
7 (r)	16.917	1.458

Profile 5

section	z	thickness
1 (l)	0.000	1.167
2 (a)	0.833	1.167
3 (b)	3.771	1.167
4 (c)	6.708	1.167
5 (r)	7.938	1.167

1 2 13 1 1 0 4 2 1.0 1.0

```
 VEH: HL93- TANDEM -                BRUG(5.75.44)          page   3
                                     date 11/09/2009; time 13:23:22
 Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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



```
 VEH: HL93- TANDEM -                BRUG(5.75.44)          page   4
                                     date 11/09/2009; time 13:23:22
 Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

 Length             250.000
 Equivalent length  183.000

 Loadings

 General loadings

      Density concrete      0.156
      Dead load (topping)   1.391

 Dead load (linear)

 Distance linear loads to edge superstructure and magnitude
      Linear load      z         p
           1         0.735     0.441
           2        54.890     0.441

 Live load
      Loading class               50
      Max. numbers of vehicles     1
      Vehicle code                13
      Number of
             - axles               2
             - wheels / axle       4
             - trafficlanes        1
             - u.d.l. lanes        0
             - linear loads        2

 Vehicle axles

      Axle Axle-dist Axle-load
         1     0.000    25.000
         2     4.000    25.000

 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    48.958

 Reduction coefficient

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

VEH: HL93- TANDEM - BRUG(5.75.44) page 5
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

Loadings (continued)

VEH: HL93- TANDEM - BRUG(5.75.44) page 6
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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 33

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

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

Length 250.000 Equivalent length 183.000

Transverse influence lines

Load on web

Node	1	2	3
1	0.95	1.32	0.73
2	0.92	1.34	0.74
	0.87	1.36	0.77
4	0.81	1.38	0.81
	0.77	1.36	0.87
6	0.74	1.34	0.92
8	0.73	1.32	0.95

Transverse loading distributions factors

web	Traffic lane 1
1	0.932
2	1.332
3	0.736

web	Lineair load 1	2
1	0.950	0.732
2	1.321	1.321
3	0.729	0.947

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

Selfweight 51 harmonic

Slab	section	moment	axialforce
1	A	-1.42	0.39
1	B	-3.47	0.86
1	C	-6.67	1.60
1	RIGHT	-7.63	1.82
2	LEFT	-3.65	2.16
2	A	-2.93	2.02
2	B	0.45	1.41
2	C	0.57	1.48
2	RIGHT	-5.79	3.23
3	LEFT	-5.80	3.23
3	A	-4.93	3.01
3	B	-0.27	1.74
3	C	0.59	1.44
3	RIGHT	-3.60	2.09
4	LEFT	-7.39	1.78
4	A	-6.45	1.56
4	B	-3.30	0.83
4	C	-1.31	0.37
5	A	-0.89	-0.09
5	B	0.90	1.69
5	C	-1.18	1.44
6	A	-1.80	1.25
6	B	0.90	1.70
6	C	-0.39	0.30
7	TOP	-3.99	-3.00
7	A	-3.70	-2.59
7	B	-2.69	-1.05
8	TOP	0.01	-3.09
8	A	0.01	-2.57
8	B	0.01	-0.66
9	TOP	3.80	-2.97
9	A	3.53	-2.56
9	B	2.60	-1.04

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.2699	-5.4053	0.0004	0.0192
2	11.000	0.0002	0.0066	0.0018	0.0187
	19.458	-0.0032	0.0020	0.0017	0.0211
4	27.917	-0.0001	-0.0017	0.0003	0.0243
	36.375	0.0003	-0.0027	0.0001	0.0266
6	44.833	0.0000	-0.0030	0.0001	0.0277
8	55.625	-0.0001	-0.0046	0.0003	0.0265
Area		-0.5436	-14.6191	0.0396	1.3075

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-1.420	-1.420	0.391	0.391
Topping	-0.365	-0.365	0.033	0.033
Linear loads	-2.062	-2.062	0.020	0.020
Live load (incl. reduction factor)				
Vehicle(s)	1.126	-1.572	0.089	0.063
Total	-2.721	-5.419	0.533	0.507

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
5.42 6.92 11.42 12.92

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

VEH: HL93- TANDEM - BRUG(5.75.44) page 10
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.3767	-7.8935	0.0020	0.0427
2	11.000	0.0009	0.0135	0.0052	0.0417
	19.458	-0.0090	0.0042	0.0041	0.0467
4	27.917	-0.0003	-0.0033	0.0007	0.0534
	36.375	0.0007	-0.0053	0.0003	0.0584
6	44.833	0.0000	-0.0059	0.0003	0.0607
8	55.625	-0.0003	-0.0093	0.0007	0.0580
Area		-1.6006	-31.2257	0.1090	2.8784

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-3.468	-3.468	0.861	0.861
Topping	-0.781	-0.781	0.072	0.072
Linear loads	-3.161	-3.161	0.044	0.044
Live load (incl. reduction factor)				
Vehicle(s)	0.647	-6.500	0.301	0.212
Total	-6.763	-13.910	1.278	1.189

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
7.92 9.42 13.92 15.42

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

VEH: HL93- TANDEM - BRUG(5.75.44) page 11
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.4417	-10.3566	0.0067	0.0800
2	11.000	0.0044	0.0349	0.0144	0.0782
	19.458	-0.0334	0.0109	0.0091	0.0873
4	27.917	-0.0010	-0.0086	0.0014	0.0993
	36.375	0.0021	-0.0142	0.0006	0.1079
6	44.833	0.0001	-0.0158	0.0007	0.1119
8	55.625	-0.0008	-0.0245	0.0013	0.1071
Area		-2.9669	-53.9764	0.2783	5.3479

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-6.674	-6.674	1.600	1.600
Topping	-1.349	-1.349	0.134	0.134
Linear loads	-4.254	-4.254	0.083	0.083
Live load (incl. reduction factor)				
Vehicle(s)	-0.017	-11.137	0.058	0.645
Total	-12.295	-23.415	1.874	2.462

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

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

VEH: HL93- TANDEM - BRUG(5.75.44) page 12
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.4579	-10.9265	0.0087	0.0911
2	11.000	0.0067	0.0427	0.0183	0.0892
	19.458	-0.0449	0.0133	0.0110	0.0994
4	27.917	-0.0013	-0.0106	0.0016	0.1129
	36.375	0.0027	-0.0174	0.0007	0.1226
6	44.833	0.0002	-0.0194	0.0008	0.1271
8	55.625	-0.0011	-0.0300	0.0015	0.1216
Area		-3.4445	-60.1617	0.3462	6.0826

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-7.632	-7.632	1.820	1.820
Topping	-1.504	-1.504	0.152	0.152
Linear loads	-4.508	-4.508	0.094	0.094
Live load (incl. reduction factor)				
Vehicle(s)	-0.022	-13.645	0.067	0.834
Total	-13.666	-27.289	2.132	2.900

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

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

VEH: HL93- TANDEM - BRUG(5.75.44) page 13
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.1413	0.0816	0.0522	1.5911
2	11.000	0.0451	2.9869	0.0245	0.5383
	19.458	-0.1354	-1.7057	-0.0010	-0.0992
4	27.917	-0.0220	-1.6511	-0.0015	-0.1288
	36.375	-0.0050	-1.2633	-0.0009	-0.0833
6	44.833	-0.0117	-0.9078	-0.0013	-0.0190
8	55.625	-0.0066	-0.0728	0.0007	0.1148
Area		-2.4339	-22.1888	0.4895	11.3274

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-3.646	-3.646	2.161	2.161
Topping	-0.555	-0.555	0.283	0.283
Linear loads	0.065	0.065	0.717	0.717
Live load (incl. reduction factor)				
Vehicle(s)	-0.613	-6.952	-0.031	0.148
Total	-4.749	-11.088	3.130	3.310

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
15.08 16.58 21.08 22.58

VEH: HL93- TANDEM - BRUG(5.75.44) page 14
date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.1135	0.0266	0.0485	1.5463
2	11.000	0.0405	2.7869	0.0204	0.5087
	19.458	-0.1236	-1.4627	-0.0023	-0.1148
4	27.917	-0.0205	-1.5298	-0.0015	-0.1322
	36.375	-0.0048	-1.1939	-0.0008	-0.0806
6	44.833	-0.0110	-0.8614	-0.0013	-0.0121
8	55.625	-0.0062	-0.0797	0.0008	0.1298
Area		-1.8895	-18.0983	0.4210	10.8069

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-2.928	-2.928	2.017	2.017
Topping	-0.452	-0.452	0.270	0.270
Linear loads	0.035	0.035	0.704	0.704
Live load (incl. reduction factor)				
Vehicle(s)	-0.576	-6.090	1.589	-0.061
Total	-3.922	-9.436	4.580	2.931

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
5.58 7.08 11.58 13.08

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
16.58 18.08 22.58 24.08

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0398	-0.5014	0.0286	1.1961
2	11.000	0.0143	1.0421	0.0047	0.2887
	19.458	-0.0104	0.6130	-0.0070	-0.2126
4	27.917	-0.0072	-0.4786	-0.0003	-0.1225
	36.375	-0.0045	-0.5807	0.0011	-0.0167
6	44.833	-0.0054	-0.4407	-0.0006	0.0888
8	55.625	-0.0023	-0.1017	0.0025	0.2984
Area		0.0809	3.0062	0.1555	8.4405

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.452	0.452	1.408	1.408
Topping	0.075	0.075	0.211	0.211
Linear loads	-0.231	-0.231	0.626	0.626
Live load (incl. reduction factor)				
Vehicle(s)	3.419	-0.582	0.104	0.935
Total	3.715	-0.286	2.349	3.180

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
9.08 10.58 15.08 16.58

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

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0210	-0.8258	0.0218	1.0181
2	11.000	0.0003	0.0271	0.0013	0.1853
	19.458	0.1291	1.8048	-0.0074	-0.2447
4	27.917	0.0014	0.1319	0.0013	-0.0913
	36.375	-0.0063	-0.2203	0.0028	0.0467
6	44.833	-0.0022	-0.1914	0.0002	0.1741
8	55.625	0.0006	-0.1054	0.0037	0.4221
Area		0.4474	3.8171	0.1234	8.4885

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.566	0.566	1.478	1.478
Topping	0.095	0.095	0.212	0.212
Linear loads	-0.388	-0.388	0.603	0.603
Live load (incl. reduction factor)				
Vehicle(s)	3.819	-0.538	-0.300	0.624
Total	4.092	-0.264	1.994	2.918

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.96 19.46 23.96 25.46

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

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0167	-1.7361	0.0077	0.5878
2	11.000	-0.0384	-2.9282	-0.0033	-0.0280
	19.458	-0.1604	-3.1311	-0.0012	-0.2493
4	27.917	0.0310	1.9300	0.0214	0.0909
	36.375	-0.0440	0.8282	0.0159	0.3279
6	44.833	0.0059	0.5187	0.0039	0.5236
8	55.625	0.0137	-0.1510	0.0085	0.8853
Area		-2.0858	-41.5430	0.3921	13.8321

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-5.787	-5.787	3.231	3.231
Topping	-1.039	-1.039	0.346	0.346
Linear loads	-0.847	-0.847	0.621	0.621
Live load (incl. reduction factor)				
Vehicle(s)	0.605	-8.373	0.353	0.110
Total	-7.068	-16.046	4.551	4.307

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
16.33 17.83 22.33 23.83

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0136	-0.1668	0.0086	0.8909
2	11.000	0.0059	0.5154	0.0040	0.5223
	19.458	-0.0440	0.8248	0.0159	0.3269
4	27.917	0.0310	1.9266	0.0214	0.0903
	36.375	-0.1605	-3.1343	-0.0013	-0.2493
6	44.833	-0.0385	-2.9314	-0.0034	-0.0277
8	55.625	0.0161	-1.7623	0.0074	0.5764
Area		-2.0879	-41.3934	0.3920	13.8665

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-5.799	-5.799	3.230	3.230
Topping	-1.035	-1.035	0.347	0.347
Linear loads	-0.866	-0.866	0.618	0.618
Live load (incl. reduction factor)				
Vehicle(s)	0.612	-8.376	0.362	0.107
Total	-7.088	-16.076	4.557	4.302

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 =
32.00 33.50 38.00 39.50

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0115	-0.1550	0.0082	0.8525
2	11.000	0.0055	0.4713	0.0036	0.4920
	19.458	-0.0321	0.7547	0.0141	0.3015
4	27.917	0.0274	1.8021	0.0176	0.0721
	36.375	-0.1469	-2.7965	-0.0025	-0.2548
6	44.833	-0.0359	-2.7320	-0.0033	-0.0189
8	55.625	0.0142	-1.7033	0.0083	0.5997
Area		-1.6331	-35.9768	0.3342	13.1520

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-4.932	-4.932	3.009	3.009
Topping	-0.899	-0.899	0.329	0.329
Linear loads	-0.832	-0.832	0.611	0.611
Live load (incl. reduction factor)				
Vehicle(s)	0.535	-7.422	0.338	-0.107
Total	-6.128	-14.085	4.287	3.842

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 =
33.50 35.00 39.50 41.00

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0037	-0.1136	0.0052	0.5636
2	11.000	0.0009	0.0567	0.0011	0.2717
	19.458	-0.0090	0.1394	0.0052	0.1222
4	27.917	0.0100	0.7421	0.0039	-0.0483
	36.375	-0.0189	0.1207	-0.0071	-0.2647
6	44.833	-0.0136	-0.9887	-0.0011	0.0943
8	55.625	-0.0048	-1.1484	0.0160	0.8384
Area		0.1357	-3.4674	0.1284	9.1540

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-0.274	-0.274	1.744	1.744
Topping	-0.087	-0.087	0.229	0.229
Linear loads	-0.547	-0.547	0.587	0.587
Live load (incl. reduction factor)				
Vehicle(s)	3.123	-1.300	0.067	-0.280
Total	2.216	-2.207	2.627	2.280

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
26.00 27.50 32.00 33.50

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
37.75 39.25 43.75 45.25

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0006	-0.1035	0.0038	0.4247
2	11.000	-0.0022	-0.1912	0.0002	0.1718
	19.458	-0.0063	-0.2201	0.0028	0.0447
4	27.917	0.0014	0.1321	0.0013	-0.0929
	36.375	0.1292	1.8050	-0.0075	-0.2458
6	44.833	0.0003	0.0273	0.0012	0.1846
8	55.625	-0.0207	-0.8095	0.0215	1.0016
Area		0.4516	3.9771	0.1181	8.2809

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.585	0.585	1.440	1.440
Topping	0.099	0.099	0.207	0.207
Linear loads	-0.380	-0.380	0.597	0.597
Live load (incl. reduction factor)				
Vehicle(s)	3.819	-0.513	-0.304	0.594
Total	4.123	-0.208	1.940	2.838

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
30.38 31.88 36.38 37.88

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0064	-0.0533	0.0007	0.1149
2	11.000	-0.0116	-0.9040	-0.0013	-0.0217
	19.458	-0.0049	-1.2595	-0.0009	-0.0858
4	27.917	-0.0220	-1.6474	-0.0016	-0.1309
	36.375	-0.1353	-1.7021	-0.0011	-0.1009
6	44.833	0.0452	2.9905	0.0244	0.5369
8	55.625	-0.1409	0.1405	0.0519	1.5697
Area		-2.4093	-22.0196	0.4769	10.9077

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-3.596	-3.596	2.093	2.093
Topping	-0.550	-0.550	0.273	0.273
Linear loads	0.099	0.099	0.708	0.708
Live load (incl. reduction factor)				
Vehicle(s)	-0.604	-6.947	-0.029	0.141
Total	-4.652	-10.995	3.044	3.215

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 =
33.25 34.75 39.25 40.75

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0011	-0.0301	0.0015	0.1185
2	11.000	0.0002	-0.0193	0.0008	0.1239
	19.458	0.0027	-0.0173	0.0007	0.1195
4	27.917	-0.0013	-0.0106	0.0016	0.1102
	36.375	-0.0448	0.0132	0.0108	0.0971
6	44.833	0.0067	0.0424	0.0182	0.0872
8	55.625	-0.4554	-10.7193	0.0087	0.0890
Area		-3.3621	-57.9185	0.3415	5.9415

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-7.392	-7.392	1.776	1.776
Topping	-1.448	-1.448	0.149	0.149
Linear loads	-4.417	-4.417	0.092	0.092
Live load (incl. reduction factor)				
Vehicle(s)	-0.023	-13.041	0.066	0.842
Total	-13.280	-26.298	2.083	2.858

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 =
45.21 46.71 51.21 52.71

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0008	-0.0245	0.0013	0.1041
2	11.000	0.0001	-0.0157	0.0007	0.1088
	19.458	0.0021	-0.0141	0.0006	0.1050
4	27.917	-0.0010	-0.0086	0.0013	0.0966
	36.375	-0.0333	0.0107	0.0090	0.0851
6	44.833	0.0044	0.0346	0.0142	0.0763
8	55.625	-0.4390	-10.1493	0.0067	0.0779
Area		-2.8885	-51.8505	0.2740	5.2107

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-6.447	-6.447	1.558	1.558
Topping	-1.296	-1.296	0.130	0.130
Linear loads	-4.163	-4.163	0.080	0.080
Live load (incl. reduction factor)				
Vehicle(s)	-0.019	-10.855	0.058	0.651
Total	-11.925	-22.761	1.826	2.419

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 =
45.21 46.71 51.21 52.71

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0003	-0.0092	0.0007	0.0555
2	11.000	0.0000	-0.0058	0.0003	0.0581
	19.458	0.0006	-0.0053	0.0003	0.0559
4	27.917	-0.0003	-0.0032	0.0006	0.0512
	36.375	-0.0089	0.0041	0.0040	0.0449
6	44.833	0.0009	0.0132	0.0051	0.0400
8	55.625	-0.3735	-7.6859	0.0020	0.0409
Area		-1.5404	-29.6087	0.1060	2.7635

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-3.301	-3.301	0.826	0.826
Topping	-0.740	-0.740	0.069	0.069
Linear loads	-3.070	-3.070	0.043	0.043
Live load (incl. reduction factor)				
Vehicle(s)	0.643	-6.363	0.294	0.212
Total	-6.468	-13.474	1.232	1.150

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
40.42 41.92 46.42 47.92

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0001	-0.0045	0.0003	0.0247
2	11.000	0.0000	-0.0029	0.0001	0.0259
	19.458	0.0003	-0.0026	0.0001	0.0248
4	27.917	-0.0001	-0.0017	0.0002	0.0227
	36.375	-0.0031	0.0019	0.0016	0.0197
6	44.833	0.0002	0.0063	0.0017	0.0175
8	55.625	-0.2655	-5.1976	0.0004	0.0180
Area		-0.5115	-13.5186	0.0375	1.2227

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-1.313	-1.313	0.366	0.366
Topping	-0.338	-0.338	0.031	0.031
Linear loads	-1.970	-1.970	0.019	0.019
Live load (incl. reduction factor)				
Vehicle(s)	1.109	-1.296	0.084	0.062
Total	-2.512	-4.918	0.499	0.477

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
42.92 44.42 48.92 50.42

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0168	0.8777	-0.0384	-1.4488
2	11.000	0.0081	0.5975	-0.0032	-0.4132
	19.458	0.0002	0.1392	0.0121	0.2207
4	27.917	-0.0034	-0.2598	0.0032	0.2517
	36.375	-0.0050	-0.3701	0.0017	0.2099
6	44.833	-0.0035	-0.2714	0.0022	0.1458
8	55.625	-0.0005	-0.0476	0.0008	-0.0016
Area		0.0656	3.4265	-0.0752	-4.3591

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-0.889	-0.889	-0.088	-0.088
Topping	0.086	0.086	-0.109	-0.109
Linear loads	0.351	0.351	-0.605	-0.605
Live load (incl. reduction factor)				
Vehicle(s)	0.759	-0.285	-1.191	0.121
Total	0.307	-0.738	-1.993	-0.681

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 =
34.88 36.38 40.88 42.38

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0012	0.0500	-0.0141	-0.8410
2	11.000	0.0000	0.0002	0.0093	-0.0090
	19.458	-0.0007	-0.0258	0.0149	0.4293
4	27.917	-0.0001	-0.0055	0.0017	0.2863
	36.375	0.0003	0.0131	0.0005	0.1540
6	44.833	0.0001	0.0068	0.0035	0.0284
8	55.625	-0.0001	-0.0018	0.0000	-0.2239
Area		0.0032	0.1633	0.1951	2.1295

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.904	0.904	1.694	1.694
Topping	0.004	0.004	0.053	0.053
Linear loads	0.020	0.020	-0.438	-0.438
Live load (incl. reduction factor)				
Vehicle(s)	0.032	-0.032	-0.043	0.681
Total	0.960	0.897	1.266	1.990

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 =
17.96 19.46 23.96 25.46

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0093	-0.6736	-0.0033	-0.4110
2	11.000	-0.0067	-0.5215	0.0110	0.2456
	19.458	-0.0027	-0.1700	0.0114	0.5092
4	27.917	0.0029	0.2165	-0.0061	0.2076
	36.375	0.0054	0.3482	-0.0043	-0.0105
6	44.833	0.0032	0.2512	0.0038	-0.1941
8	55.625	0.0001	0.0408	-0.0017	-0.5359
Area		-0.0364	-2.6613	0.1288	1.7293

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-1.183	-1.183	1.441	1.441
Topping	-0.067	-0.067	0.043	0.043
Linear loads	-0.268	-0.268	-0.388	-0.388
Live load (incl. reduction factor)				
Vehicle(s)	0.298	-0.485	-0.347	0.314
Total	-1.220	-2.003	0.750	1.410

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
30.38 31.88 36.38 37.88

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

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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	-0.0001	0.0396	-0.0021	-0.5977
2	11.000	0.0037	0.2851	0.0037	-0.2361
	19.458	0.0070	0.3959	-0.0058	-0.0436
4	27.917	0.0034	0.2481	-0.0088	0.1873
	36.375	-0.0038	-0.1915	0.0102	0.5120
6	44.833	-0.0078	-0.5975	0.0110	0.2737
8	55.625	-0.0106	-0.7746	-0.0019	-0.3458
Area		-0.0398	-2.9465	0.0876	1.1132

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-1.800	-1.800	1.247	1.247
Topping	-0.074	-0.074	0.028	0.028
Linear loads	-0.312	-0.312	-0.387	-0.387
Live load (incl. reduction factor)				
Vehicle(s)	0.397	-0.558	-0.373	0.364
Total	-1.788	-2.743	0.515	1.252

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
16.33 17.83 22.33 23.83

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0001	-0.0019	0.0000	-0.2288
2	11.000	0.0001	0.0068	0.0035	0.0283
	19.458	0.0003	0.0131	0.0005	0.1538
4	27.917	-0.0001	-0.0055	0.0017	0.2861
	36.375	-0.0007	-0.0258	0.0149	0.4292
6	44.833	0.0000	0.0002	0.0093	-0.0092
8	55.625	0.0012	0.0490	-0.0138	-0.8255
Area		0.0029	0.1524	0.1976	2.2464

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.903	0.903	1.704	1.704
Topping	0.004	0.004	0.056	0.056
Linear loads	0.020	0.020	-0.433	-0.433
Live load (incl. reduction factor)				
Vehicle(s)	0.031	-0.032	-0.016	0.681
Total	0.957	0.895	1.312	2.008

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
30.38 31.88 36.38 37.88

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0004	-0.0394	0.0007	-0.0242
2	11.000	-0.0030	-0.2363	0.0024	0.1399
	19.458	-0.0043	-0.3209	0.0017	0.2115
4	27.917	-0.0029	-0.2265	0.0033	0.2641
	36.375	0.0008	0.1193	0.0134	0.2543
6	44.833	0.0069	0.5230	0.0004	-0.3555
8	55.625	0.0127	0.7699	-0.0333	-1.3461
Area		0.0475	2.8779	0.0061	-2.8264

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-0.390	-0.390	0.298	0.298
Topping	0.072	0.072	-0.071	-0.071
Linear loads	0.309	0.309	-0.570	-0.570
Live load (incl. reduction factor)				
Vehicle(s)	0.583	-0.246	-0.882	0.124
Total	0.574	-0.255	-1.225	-0.219

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
13.46 14.96 19.46 20.96

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

Slab 7 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	-0.3165	-11.0081	-0.0813	-0.8823
2	11.000	-0.0384	-2.9442	-0.1101	-0.6436
	19.458	0.0905	1.7191	-0.0431	-0.4123
4	27.917	0.0208	1.6406	-0.0031	-0.2113
	36.375	0.0077	1.2459	0.0008	-0.1243
6	44.833	0.0118	0.8884	-0.0011	-0.0854
8	55.625	0.0055	0.0428	-0.0011	0.0026
Area		-1.0105	-37.9731	-1.9117	-18.1882

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-3.985	-3.985	-2.998	-2.998
Topping	-0.949	-0.949	-0.455	-0.455
Linear loads	-4.573	-4.573	-0.384	-0.384
Live load (incl. reduction factor)				
Vehicle(s)	4.538	-10.463	-2.527	-6.221
Total	-4.970	-19.971	-6.363	-10.057

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
16.58 18.08 22.58 24.08

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

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.2709	-9.7521	-0.0724	-0.8002
2	11.000	-0.0332	-2.5665	-0.0964	-0.5835
	19.458	0.0762	1.5544	-0.0380	-0.3704
4	27.917	0.0181	1.4381	-0.0027	-0.1844
	36.375	0.0065	1.0725	0.0008	-0.1045
6	44.833	0.0101	0.7646	-0.0010	-0.0709
8	55.625	0.0048	0.0340	-0.0009	0.0046
Area		-0.8612	-33.5890	-1.6837	-16.2559

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-3.699	-3.699	-2.588	-2.588
Topping	-0.840	-0.840	-0.406	-0.406
Linear loads	-4.052	-4.052	-0.347	-0.347
Live load (incl. reduction factor)				
Vehicle(s)	3.531	-8.829	-1.732	-5.484
Total	-5.060	-17.420	-5.073	-8.825

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.96 19.46 23.96 25.46

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

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.1367	-5.3301	-0.0397	-0.5056
2	11.000	-0.0156	-1.2389	-0.0485	-0.3664
	19.458	0.0382	0.9740	-0.0194	-0.2173
4	27.917	0.0089	0.7268	-0.0012	-0.0843
	36.375	0.0020	0.4636	0.0007	-0.0292
6	44.833	0.0043	0.3286	-0.0004	-0.0143
8	55.625	0.0024	0.0017	-0.0005	0.0171
Area		-0.4280	-18.1648	-0.8662	-9.1461

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	-2.694	-2.694	-1.055	-1.055
Topping	-0.454	-0.454	-0.229	-0.229
Linear loads	-2.220	-2.220	-0.212	-0.212
Live load (incl. reduction factor)				
Vehicle(s)	1.769	-4.259	-0.884	-2.857
Total	-3.599	-9.627	-2.379	-4.352

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
17.96 19.46 23.96 25.46

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

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0031	-1.5693	0.0073	-0.1166
2	11.000	-0.0443	-3.4436	-0.0039	-0.2659
	19.458	-0.1164	-3.9559	-0.0469	-0.4580
4	27.917	0.0000	0.0033	-0.1097	-0.5723
	36.375	0.1165	3.9625	-0.0469	-0.4580
6	44.833	0.0444	3.4501	-0.0039	-0.2659
8	55.625	-0.0024	1.6113	0.0072	-0.1195
Area		0.0020	-0.1496	-1.6945	-19.1430

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.012	0.012	-3.093	-3.093
Topping	-0.004	-0.004	-0.479	-0.479
Linear loads	0.019	0.019	-0.113	-0.113
Live load (incl. reduction factor)				
Vehicle(s)	6.195	-6.190	-2.718	-2.717
Total	6.221	-6.163	-6.402	-6.401

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
33.50 35.00 39.50 41.00

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
14.83 16.33 20.83 22.33

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0033	-1.3116	0.0067	-0.0927
2	11.000	-0.0381	-2.9817	-0.0034	-0.2326
	19.458	-0.0978	-3.4741	-0.0418	-0.4117
4	27.917	0.0000	0.0029	-0.0968	-0.5178
	36.375	0.0979	3.4797	-0.0418	-0.4117
6	44.833	0.0381	2.9874	-0.0034	-0.2326
8	55.625	-0.0027	1.3488	0.0066	-0.0954
Area		0.0019	-0.1199	-1.4992	-16.9840

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.011	0.011	-2.574	-2.574
Topping	-0.003	-0.003	-0.425	-0.425
Linear loads	0.016	0.016	-0.091	-0.091
Live load (incl. reduction factor)				
Vehicle(s)	5.195	-5.191	-2.417	-2.417
Total	5.220	-5.166	-5.507	-5.507

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
33.50 35.00 39.50 41.00

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
14.83 16.33 20.83 22.33

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.0054	-0.4066	0.0047	-0.0026
2	11.000	-0.0168	-1.3572	-0.0016	-0.1094
	19.458	-0.0455	-1.7778	-0.0230	-0.2431
4	27.917	0.0000	0.0013	-0.0510	-0.3208
	36.375	0.0456	1.7803	-0.0230	-0.2431
6	44.833	0.0169	1.3597	-0.0016	-0.1094
8	55.625	-0.0051	0.4272	0.0046	-0.0046
Area		0.0016	-0.0157	-0.7926	-9.0674

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	0.009	0.009	-0.656	-0.656
Topping	0.000	0.000	-0.227	-0.227
Linear loads	0.009	0.009	-0.009	-0.009
Live load (incl. reduction factor)				
Vehicle(s)	2.261	-2.259	-1.044	-1.044
Total	2.279	-2.241	-1.936	-1.936

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
34.88 36.38 40.88 42.38

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
13.46 14.96 19.46 20.96

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0053	-0.0232	-0.0010	0.0046
2	11.000	-0.0118	-0.8847	-0.0011	-0.0850
	19.458	-0.0077	-1.2422	0.0008	-0.1239
4	27.917	-0.0207	-1.6368	-0.0031	-0.2109
	36.375	-0.0905	-1.7153	-0.0431	-0.4119
6	44.833	0.0385	2.9481	-0.1101	-0.6433
8	55.625	0.3145	10.8598	-0.0822	-0.8774
Area		0.9527	35.8990	-1.8963	-17.9815

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	3.795	3.795	-2.970	-2.970
Topping	0.897	0.897	-0.450	-0.450
Linear loads	4.516	4.516	-0.380	-0.380
Live load (incl. reduction factor)				
Vehicle(s)	10.118	-4.537	-6.252	-2.526
Total	19.327	4.672	-10.053	-6.326

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
31.75 33.25 37.75 39.25

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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	-0.0046	-0.0170	-0.0009	0.0063
2	11.000	-0.0101	-0.7614	-0.0010	-0.0706
	19.458	-0.0065	-1.0693	0.0008	-0.1042
4	27.917	-0.0180	-1.4348	-0.0027	-0.1841
	36.375	-0.0762	-1.5512	-0.0380	-0.3701
6	44.833	0.0333	2.5700	-0.0964	-0.5832
8	55.625	0.2690	9.6199	-0.0732	-0.7957
Area		0.8114	31.7490	-1.6701	-16.0717

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	3.530	3.530	-2.564	-2.564
Topping	0.794	0.794	-0.402	-0.402
Linear loads	4.001	4.001	-0.344	-0.344
Live load (incl. reduction factor)				
Vehicle(s)	8.540	-3.530	-5.510	-1.732
Total	16.865	4.795	-8.820	-5.041

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
30.38 31.88 36.38 37.88

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.0024	0.0059	-0.0005	0.0177
2	11.000	-0.0043	-0.3271	-0.0004	-0.0143
	19.458	-0.0019	-0.4620	0.0007	-0.0292
4	27.917	-0.0089	-0.7253	-0.0012	-0.0843
	36.375	-0.0382	-0.9724	-0.0194	-0.2173
6	44.833	0.0156	1.2405	-0.0485	-0.3664
8	55.625	0.1355	5.2545	-0.0401	-0.5029
Area		0.4024	17.1492	-0.8588	-9.0361

Description	Moment Max.	Moment Min.	Axial force in case of Max. mom	Axial force in case of Min. mom
Selfweight	2.598	2.598	-1.042	-1.042
Topping	0.429	0.429	-0.226	-0.226
Linear loads	2.190	2.190	-0.211	-0.211
Live load (incl. reduction factor)				
Vehicle(s)	4.117	-1.768	-2.867	-0.883
Total	9.334	3.448	-4.345	-2.362

Maximum moment : 1 vehicle(s) decisive
Location of wheels z =
45.21 46.71 51.21 52.71

Minimum moment : 1 vehicle(s) decisive
Location of wheels z =
30.38 31.88 36.38 37.88

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LOAD ON THE WEBS

WEB	S.W.
1	4.52
2	7.57
3	4.50

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Summary of the results (Maximum)

Section	--- Deadload ----		----- P.T. ------		--- Live load ---	
	Moment	Ax.Frc	Moment	Ax.Frc	Moment	Ax.Frc
1 a	-3.85	0.44	0.00	0.00	1.13	0.09
1 b	-7.41	0.98	0.00	0.00	0.65	0.30
1 c	-12.28	1.82	0.00	0.00	-0.02	0.06
1 right	-13.64	2.07	0.00	0.00	-0.02	0.07
2 left	-4.14	3.16	0.00	0.00	-0.61	-0.03
2 a	-3.35	2.99	0.00	0.00	-0.58	1.59
2 b	0.30	2.25	0.00	0.00	3.42	0.10
2 c	0.27	2.29	0.00	0.00	3.82	-0.30
2 right	-7.67	4.20	0.00	0.00	0.60	0.35
3 left	-7.70	4.20	0.00	0.00	0.61	0.36
3 a	-6.66	3.95	0.00	0.00	0.54	0.34
3 b	-0.91	2.56	0.00	0.00	3.12	0.07
3 c	0.30	2.24	0.00	0.00	3.82	-0.30
3 right	-4.05	3.07	0.00	0.00	-0.60	-0.03
4 left	-13.26	2.02	0.00	0.00	-0.02	0.07
4 a	-11.91	1.77	0.00	0.00	-0.02	0.06
4 b	-7.11	0.94	0.00	0.00	0.64	0.29
4 c	-3.62	0.41	0.00	0.00	1.11	0.08
5 a	-0.45	-0.80	0.00	0.00	0.76	-1.19
5 b	0.93	1.31	0.00	0.00	0.03	-0.04
5 c	-1.52	1.10	0.00	0.00	0.30	-0.35
6 a	-2.19	0.89	0.00	0.00	0.40	-0.37
6 b	0.93	1.33	0.00	0.00	0.03	-0.02
6 c	-0.01	-0.34	0.00	0.00	0.58	-0.88
7 top	-9.51	-3.84	0.00	0.00	4.54	-2.53
7 a	-8.59	-3.34	0.00	0.00	3.53	-1.73
7 b	-5.37	-1.50	0.00	0.00	1.77	-0.88
8 top	0.03	-3.68	0.00	0.00	6.19	-2.72
8 a	0.02	-3.09	0.00	0.00	5.20	-2.42
8 b	0.02	-0.89	0.00	0.00	2.26	-1.04
9 top	9.21	-3.80	0.00	0.00	10.12	-6.25
9 a	8.32	-3.31	0.00	0.00	8.54	-5.51
9 b	5.22	-1.48	0.00	0.00	4.12	-2.87

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Summary of the results (Minimum)

Section	--- Deadload ----		----- P.T. ------		--- Live load ---	
	Moment	Ax.Frc	Moment	Ax.Frc	Moment	Ax.Frc
1 a	-3.85	0.44	0.00	0.00	-1.57	0.06
1 b	-7.41	0.98	0.00	0.00	-6.50	0.21
1 c	-12.28	1.82	0.00	0.00	-11.14	0.65
1 right	-13.64	2.07	0.00	0.00	-13.64	0.83
2 left	-4.14	3.16	0.00	0.00	-6.95	0.15
2 a	-3.35	2.99	0.00	0.00	-6.09	-0.06
2 b	0.30	2.25	0.00	0.00	-0.58	0.94
2 c	0.27	2.29	0.00	0.00	-0.54	0.62
2 right	-7.67	4.20	0.00	0.00	-8.37	0.11
3 left	-7.70	4.20	0.00	0.00	-8.38	0.11
3 a	-6.66	3.95	0.00	0.00	-7.42	-0.11
3 b	-0.91	2.56	0.00	0.00	-1.30	-0.28
3 c	0.30	2.24	0.00	0.00	-0.51	0.59
3 right	-4.05	3.07	0.00	0.00	-6.95	0.14
4 left	-13.26	2.02	0.00	0.00	-13.04	0.84
4 a	-11.91	1.77	0.00	0.00	-10.85	0.65
4 b	-7.11	0.94	0.00	0.00	-6.36	0.21
4 c	-3.62	0.41	0.00	0.00	-1.30	0.06
5 a	-0.45	-0.80	0.00	0.00	-0.29	0.12
5 b	0.93	1.31	0.00	0.00	-0.03	0.68
5 c	-1.52	1.10	0.00	0.00	-0.48	0.31
6 a	-2.19	0.89	0.00	0.00	-0.56	0.36
6 b	0.93	1.33	0.00	0.00	-0.03	0.68
6 c	-0.01	-0.34	0.00	0.00	-0.25	0.12
7 top	-9.51	-3.84	0.00	0.00	-10.46	-6.22
7 a	-8.59	-3.34	0.00	0.00	-8.83	-5.48
7 b	-5.37	-1.50	0.00	0.00	-4.26	-2.86
8 top	0.03	-3.68	0.00	0.00	-6.19	-2.72
8 a	0.02	-3.09	0.00	0.00	-5.19	-2.42
8 b	0.02	-0.89	0.00	0.00	-2.26	-1.04
9 top	9.21	-3.80	0.00	0.00	-4.54	-2.53
9 a	8.32	-3.31	0.00	0.00	-3.53	-1.73
9 b	5.22	-1.48	0.00	0.00	-1.77	-0.88

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

slab	section	moment	axial force
1	A	51	41
1	B	51	43
1	C	51	51
1	RIGHT	51	51
2	LEFT	51	47
2	A	51	45
2	B	51	41
2	C	51	41
2	RIGHT	51	43
3	LEFT	51	43
3	A	51	51
3	B	51	45
3	C	51	41
3	RIGHT	51	47
4	LEFT	51	51
4	A	51	51
4	B	51	43
4	C	51	41
5	A	37	43
5	B	31	35
5	C	35	41
6	A	41	41
6	B	31	35
6	C	33	41
7	TOP	43	51
7	A	41	51
7	B	31	51
8	TOP	43	51
8	A	43	51
8	B	31	51
9	TOP	43	51
9	A	41	51
9	B	31	51

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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	-0.26994	-5.40533	0.00045	0.01924
2	5.417	0.04858	0.00913	0.00069	0.01899
3	7.917	0.01011	0.00792	0.00098	0.01888
4	10.417	0.00128	0.00683	0.00159	0.01877
5	11.000	0.00025	0.00658	0.00182	0.01875
6	11.583	-0.00064	0.00632	0.00205	0.01873
7	16.583	-0.00388	0.00373	0.00240	0.01965
8	19.458	-0.00322	0.00198	0.00171	0.02111
9	22.333	-0.00174	0.00039	0.00089	0.02271
10	27.333	-0.00022	-0.00155	0.00027	0.02421
11	27.917	-0.00014	-0.00172	0.00026	0.02427
12	28.500	-0.00007	-0.00188	0.00026	0.02433
13	33.500	0.00026	-0.00272	0.00019	0.02550
14	36.375	0.00026	-0.00272	0.00013	0.02662
15	39.250	0.00017	-0.00260	0.00009	0.02753
16	44.250	0.00003	-0.00290	0.00013	0.02781
17	44.833	0.00002	-0.00299	0.00014	0.02775
18	45.417	0.00001	-0.00308	0.00015	0.02768
19	47.917	-0.00003	-0.00346	0.00020	0.02739
20	50.417	-0.00007	-0.00384	0.00024	0.02709
21	55.625	-0.00013	-0.00463	0.00032	0.02649

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.37669	-7.89352	0.00203	0.04267
2	5.417	-0.14986	-2.48175	0.00269	0.04215
3	7.917	0.03878	0.01627	0.00338	0.04192
4	10.417	0.00452	0.01398	0.00471	0.04170
5	11.000	0.00095	0.01347	0.00521	0.04165
6	11.583	-0.00202	0.01295	0.00570	0.04162
7	16.583	-0.01134	0.00773	0.00596	0.04361
8	19.458	-0.00901	0.00421	0.00415	0.04672
9	22.333	-0.00464	0.00100	0.00215	0.05011
10	27.333	-0.00053	-0.00293	0.00068	0.05330
11	27.917	-0.00033	-0.00327	0.00065	0.05343
12	28.500	-0.00015	-0.00360	0.00064	0.05356
13	33.500	0.00068	-0.00532	0.00046	0.05601
14	36.375	0.00066	-0.00535	0.00032	0.05836
15	39.250	0.00041	-0.00512	0.00024	0.06027
16	44.250	0.00007	-0.00574	0.00030	0.06084
17	44.833	0.00004	-0.00592	0.00033	0.06070
18	45.417	0.00002	-0.00610	0.00035	0.06055
19	47.917	-0.00007	-0.00688	0.00046	0.05992
20	50.417	-0.00015	-0.00765	0.00055	0.05929
21	55.625	-0.00029	-0.00926	0.00070	0.05801

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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	-0.44168	-10.35663	0.00672	0.07995
2	5.417	-0.27089	-4.95248	0.00878	0.07908
3	7.917	-0.15336	-2.45821	0.01057	0.07869
4	10.417	0.02156	0.03630	0.01343	0.07832
5	11.000	0.00441	0.03493	0.01438	0.07823
6	11.583	-0.00924	0.03356	0.01527	0.07818
7	16.583	-0.04441	0.02001	0.01373	0.08174
8	19.458	-0.03335	0.01087	0.00915	0.08730
9	22.333	-0.01630	0.00251	0.00463	0.09335
10	27.333	-0.00168	-0.00776	0.00143	0.09903
11	27.917	-0.00099	-0.00864	0.00136	0.09926
12	28.500	-0.00039	-0.00950	0.00132	0.09948
13	33.500	0.00225	-0.01404	0.00090	0.10379
14	36.375	0.00212	-0.01418	0.00065	0.10791
15	39.250	0.00128	-0.01364	0.00050	0.11124
16	44.250	0.00021	-0.01533	0.00061	0.11219
17	44.833	0.00013	-0.01578	0.00066	0.11194
18	45.417	0.00006	-0.01626	0.00070	0.11168
19	47.917	-0.00021	-0.01829	0.00088	0.11054
20	50.417	-0.00045	-0.02030	0.00104	0.10941
21	55.625	-0.00084	-0.02448	0.00131	0.10710

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.45785	-10.92653	0.00868	0.09112
2	5.417	-0.29913	-5.52514	0.01145	0.09015
3	7.917	-0.19385	-3.03218	0.01376	0.08972
4	10.417	-0.04115	-0.53902	0.01724	0.08932
5	11.000	0.00672	0.04275	0.01833	0.08922
6	11.583	-0.01298	0.04106	0.01932	0.08916
7	16.583	-0.06074	0.02448	0.01666	0.09318
8	19.458	-0.04485	0.01331	0.01095	0.09943
9	22.333	-0.02157	0.00309	0.00549	0.10625
10	27.333	-0.00217	-0.00948	0.00168	0.11263
11	27.917	-0.00127	-0.01057	0.00160	0.11289
12	28.500	-0.00047	-0.01161	0.00154	0.11314
13	33.500	0.00292	-0.01719	0.00104	0.11797
14	36.375	0.00273	-0.01738	0.00075	0.12259
15	39.250	0.00164	-0.01673	0.00058	0.12632
16	44.250	0.00027	-0.01881	0.00071	0.12737
17	44.833	0.00017	-0.01937	0.00076	0.12709
18	45.417	0.00008	-0.01995	0.00081	0.12679
19	47.917	-0.00027	-0.02243	0.00101	0.12551
20	50.417	-0.00056	-0.02491	0.00119	0.12424
21	55.625	-0.00105	-0.03002	0.00149	0.12162

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.14133	0.08159	0.05215	1.59105
2	5.417	-0.08644	1.51397	0.04176	1.07291
3	7.917	-0.04503	2.17385	0.03568	0.83360
4	10.417	0.02241	2.83314	0.02718	0.59419
5	11.000	0.04514	2.98691	0.02452	0.53831
6	11.583	0.00028	2.55994	0.02175	0.48271
7	16.583	-0.15304	-0.60866	0.00444	0.05925
8	19.458	-0.13538	-1.70575	-0.00100	-0.09922
9	22.333	-0.08277	-1.98161	-0.00268	-0.15253
10	27.333	-0.02542	-1.69931	-0.00175	-0.13405
11	27.917	-0.02203	-1.65113	-0.00153	-0.12880
12	28.500	-0.01895	-1.60342	-0.00131	-0.12353
13	33.500	-0.00441	-1.32130	-0.00053	-0.09195
14	36.375	-0.00498	-1.26325	-0.00094	-0.08333
15	39.250	-0.00911	-1.21105	-0.00151	-0.07148
16	44.250	-0.01185	-0.95244	-0.00140	-0.02619
17	44.833	-0.01166	-0.90776	-0.00129	-0.01902
18	45.417	-0.01143	-0.86229	-0.00117	-0.01174
19	47.917	-0.01038	-0.66783	-0.00068	0.01940
20	50.417	-0.00923	-0.47406	-0.00021	0.05045
21	55.625	-0.00657	-0.07280	0.00072	0.11480

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.11347	0.02663	0.04855	1.54627
2	5.417	-0.06274	1.38747	0.03774	1.03561
3	7.917	-0.02766	2.01445	0.03144	0.79974
4	10.417	0.02418	2.64083	0.02299	0.56377
5	11.000	0.04050	2.78692	0.02045	0.50870
6	11.583	0.06004	2.93563	0.01783	0.45392
7	16.583	-0.13085	-0.31183	0.00221	0.03845
8	19.458	-0.12364	-1.46270	-0.00231	-0.11478
9	22.333	-0.07688	-1.78912	-0.00328	-0.16317
10	27.333	-0.02367	-1.57206	-0.00179	-0.13804
11	27.917	-0.02052	-1.52978	-0.00152	-0.13215
12	28.500	-0.01765	-1.48779	-0.00127	-0.12627
13	33.500	-0.00422	-1.24254	-0.00034	-0.09054
14	36.375	-0.00479	-1.19388	-0.00080	-0.08059
15	39.250	-0.00863	-1.14603	-0.00144	-0.06774
16	44.250	-0.01115	-0.90327	-0.00137	-0.01967
17	44.833	-0.01097	-0.86143	-0.00126	-0.01206
18	45.417	-0.01076	-0.81886	-0.00113	-0.00435
19	47.917	-0.00977	-0.63680	-0.00062	0.02867
20	50.417	-0.00869	-0.45538	-0.00012	0.06158
21	55.625	-0.00618	-0.07967	0.00085	0.12980

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.03979	-0.50139	0.02857	1.19606
2	5.417	-0.01728	0.25912	0.01838	0.74966
3	7.917	-0.00454	0.60982	0.01280	0.54336
4	10.417	0.01038	0.96033	0.00638	0.33690
5	11.000	0.01428	1.04209	0.00473	0.28871
6	11.583	0.01852	1.12578	0.00308	0.24087
7	16.583	0.11749	2.21681	-0.00586	-0.10560
8	19.458	-0.01040	0.61296	-0.00699	-0.21260
9	22.333	-0.02209	-0.13929	-0.00529	-0.21731
10	27.333	-0.00810	-0.47136	-0.00089	-0.13384
11	27.917	-0.00719	-0.47864	-0.00033	-0.12247
12	28.500	-0.00639	-0.48477	0.00020	-0.11123
13	33.500	-0.00377	-0.54996	0.00207	-0.03900
14	36.375	-0.00450	-0.58071	0.00107	-0.01673
15	39.250	-0.00558	-0.56965	-0.00037	0.00546
16	44.250	-0.00557	-0.45885	-0.00072	0.07753
17	44.833	-0.00542	-0.44069	-0.00055	0.08878
18	45.417	-0.00526	-0.42228	-0.00038	0.10018
19	47.917	-0.00456	-0.34346	0.00036	0.14896
20	50.417	-0.00383	-0.26485	0.00107	0.19759
21	55.625	-0.00225	-0.10174	0.00246	0.29836

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.02102	-0.82584	0.02179	1.01814
2	5.417	-0.01146	-0.40602	0.01282	0.60854
3	7.917	-0.00647	-0.21213	0.00803	0.41917
4	10.417	-0.00106	-0.01818	0.00268	0.22960
5	11.000	0.00026	0.02709	0.00133	0.18534
6	11.583	0.00166	0.07389	0.00000	0.14147
7	16.583	0.03283	0.78971	-0.00705	-0.16492
8	19.458	0.12915	1.80481	-0.00737	-0.24469
9	22.333	0.03270	0.81108	-0.00498	-0.22357
10	27.333	0.00254	0.16738	0.00060	-0.10587
11	27.917	0.00137	0.13191	0.00133	-0.09133
12	28.500	0.00029	0.09842	0.00204	-0.07699
13	33.500	-0.00578	-0.14375	0.00432	0.01680
14	36.375	-0.00625	-0.22029	0.00280	0.04672
15	39.250	-0.00483	-0.23088	0.00069	0.07475
16	44.250	-0.00242	-0.19600	-0.00002	0.16080
17	44.833	-0.00223	-0.19138	0.00017	0.17412
18	45.417	-0.00206	-0.18676	0.00038	0.18761
19	47.917	-0.00134	-0.16692	0.00124	0.24533
20	50.417	-0.00067	-0.14704	0.00207	0.30286
21	55.625	0.00060	-0.10540	0.00372	0.42207

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.01674	-1.73614	0.00765	0.58783
2	5.417	-0.00657	-2.32519	0.00259	0.28534
3	7.917	-0.01960	-2.59569	0.00004	0.14523
4	10.417	-0.03457	-2.86540	-0.00265	0.00481
5	11.000	-0.03841	-2.92822	-0.00331	-0.02799
6	11.583	-0.04252	-2.99065	-0.00393	-0.06029
7	16.583	-0.10590	-3.38607	-0.00505	-0.24955
8	19.458	-0.16045	-3.13108	-0.00121	-0.24927
9	22.333	-0.17646	-1.96527	0.00563	-0.15195
10	27.333	-0.01475	1.46570	0.01946	0.06692
11	27.917	0.03103	1.92997	0.02142	0.09087
12	28.500	0.00905	1.81507	0.02322	0.11440
13	33.500	-0.05684	1.04433	0.02332	0.27337
14	36.375	-0.04401	0.82818	0.01590	0.32790
15	39.250	-0.01819	0.74934	0.00803	0.37522
16	44.250	0.00496	0.55451	0.00373	0.50418
17	44.833	0.00590	0.51870	0.00393	0.52362
18	45.417	0.00671	0.48211	0.00417	0.54331
19	47.917	0.00949	0.32575	0.00522	0.62750
20	50.417	0.01144	0.17022	0.00628	0.71141
21	55.625	0.01369	-0.15099	0.00846	0.88525

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.01362	-0.16682	0.00857	0.89093
2	5.417	0.01139	0.16697	0.00632	0.71013
3	7.917	0.00945	0.32247	0.00527	0.62619
4	10.417	0.00667	0.47880	0.00423	0.54195
5	11.000	0.00587	0.51539	0.00399	0.52226
6	11.583	0.00493	0.55119	0.00379	0.50281
7	16.583	-0.01822	0.74600	0.00810	0.37396
8	19.458	-0.04404	0.82483	0.01594	0.32686
9	22.333	-0.05687	1.04098	0.02334	0.27259
10	27.333	0.00901	1.81172	0.02322	0.11386
11	27.917	0.03100	1.92664	0.02141	0.09034
12	28.500	-0.01478	1.46245	0.01946	0.06640
13	33.500	-0.17650	-1.96851	0.00561	-0.15222
14	36.375	-0.16050	-3.13429	-0.00126	-0.24929
15	39.250	-0.10595	-3.38926	-0.00513	-0.24934
16	44.250	-0.04256	-2.99384	-0.00401	-0.05997
17	44.833	-0.03845	-2.93141	-0.00338	-0.02768
18	45.417	-0.03461	-2.86859	-0.00273	0.00512
19	47.917	-0.01963	-2.59890	-0.00002	0.14549
20	50.417	-0.00657	-2.32843	0.00254	0.28557
21	55.625	0.01610	-1.76228	0.00745	0.57642

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.01153	-0.15498	0.00818	0.85250
2	5.417	0.00980	0.15140	0.00595	0.67569
3	7.917	0.00829	0.29416	0.00490	0.59359
4	10.417	0.00616	0.43770	0.00384	0.51121
5	11.000	0.00555	0.47130	0.00360	0.49195
6	11.583	0.00483	0.50415	0.00339	0.47293
7	16.583	-0.01309	0.68161	0.00715	0.34718
8	19.458	-0.03209	0.75468	0.01409	0.30155
9	22.333	-0.03977	0.96018	0.02043	0.24909
10	27.333	0.01205	1.69297	0.01933	0.09495
11	27.917	0.02741	1.80210	0.01763	0.07206
12	28.500	0.04594	1.91542	0.01582	0.04877
13	33.500	-0.15276	-1.58073	0.00348	-0.16289
14	36.375	-0.14693	-2.79655	-0.00253	-0.25476
15	39.250	-0.09837	-3.10454	-0.00571	-0.24937
16	44.250	-0.03970	-2.78677	-0.00395	-0.05203
17	44.833	-0.03589	-2.73198	-0.00327	-0.01895
18	45.417	-0.03234	-2.67673	-0.00257	0.01463
19	47.917	-0.01853	-2.43950	0.00033	0.15835
20	50.417	-0.00654	-2.20154	0.00306	0.30179
21	55.625	0.01416	-1.70328	0.00825	0.59966

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.00365	-0.11361	0.00521	0.56358
2	5.417	0.00260	-0.03054	0.00328	0.42041
3	7.917	0.00193	0.00835	0.00234	0.35394
4	10.417	0.00111	0.04755	0.00136	0.28725
5	11.000	0.00090	0.05674	0.00113	0.27166
6	11.583	0.00065	0.06566	0.00092	0.25627
7	16.583	-0.00462	0.10693	0.00219	0.15614
8	19.458	-0.00904	0.13939	0.00522	0.12218
9	22.333	-0.00910	0.26192	0.00751	0.08454
10	27.333	0.00674	0.68125	0.00487	-0.03084
11	27.917	0.01005	0.74213	0.00393	-0.04828
12	28.500	0.01373	0.80577	0.00296	-0.06600
13	33.500	0.10934	1.76118	-0.00399	-0.21785
14	36.375	-0.01894	0.12072	-0.00708	-0.26470
15	39.250	-0.02995	-0.63786	-0.00757	-0.21205
16	44.250	-0.01465	-0.97874	-0.00219	0.05438
17	44.833	-0.01364	-0.98868	-0.00111	0.09429
18	45.417	-0.01274	-0.99746	0.00000	0.13462
19	47.917	-0.00971	-1.03493	0.00444	0.30732
20	50.417	-0.00757	-1.07208	0.00850	0.47980
21	55.625	-0.00483	-1.14841	0.01597	0.83839

VEH: HL93- TANDEM - BRUG(5.75.44) page 13
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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.00064	-0.10350	0.00378	0.42468
2	5.417	-0.00066	-0.14681	0.00208	0.30066
3	7.917	-0.00134	-0.16670	0.00126	0.24309
4	10.417	-0.00206	-0.18654	0.00040	0.18533
5	11.000	-0.00223	-0.19116	0.00020	0.17183
6	11.583	-0.00242	-0.19578	0.00001	0.15850
7	16.583	-0.00483	-0.23066	0.00072	0.07254
8	19.458	-0.00625	-0.22008	0.00281	0.04469
9	22.333	-0.00578	-0.14354	0.00431	0.01498
10	27.333	0.00029	0.09863	0.00203	-0.07859
11	27.917	0.00137	0.13214	0.00131	-0.09292
12	28.500	0.00254	0.16760	0.00058	-0.10746
13	33.500	0.03270	0.81129	-0.00503	-0.22491
14	36.375	0.12915	1.80501	-0.00745	-0.24578
15	39.250	0.03284	0.78990	-0.00717	-0.16578
16	44.250	0.00166	0.07408	-0.00012	0.14073
17	44.833	0.00026	0.02726	0.00122	0.18460
18	45.417	-0.00106	-0.01800	0.00257	0.22885
19	47.917	-0.00647	-0.21196	0.00794	0.41839
20	50.417	-0.01147	-0.40585	0.01275	0.60774
21	55.625	-0.02074	-0.80955	0.02147	1.00157

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00640	-0.05327	0.00073	0.11486
2	5.417	-0.00919	-0.47036	-0.00022	0.04788
3	7.917	-0.01034	-0.66409	-0.00069	0.01681
4	10.417	-0.01139	-0.85855	-0.00117	-0.01436
5	11.000	-0.01162	-0.90402	-0.00129	-0.02165
6	11.583	-0.01181	-0.94869	-0.00140	-0.02883
7	16.583	-0.00908	-1.20728	-0.00150	-0.07407
8	19.458	-0.00494	-1.25948	-0.00095	-0.08579
9	22.333	-0.00437	-1.31753	-0.00054	-0.09425
10	27.333	-0.01891	-1.59966	-0.00134	-0.12568
11	27.917	-0.02199	-1.64738	-0.00156	-0.13094
12	28.500	-0.02537	-1.69555	-0.00178	-0.13618
13	33.500	-0.08271	-1.97791	-0.00274	-0.15446
14	36.375	-0.13530	-1.70211	-0.00111	-0.10095
15	39.250	-0.15294	-0.60508	0.00430	0.05771
16	44.250	0.00033	2.56348	0.02161	0.48129
17	44.833	0.04518	2.99052	0.02440	0.53689
18	45.417	0.02244	2.83676	0.02706	0.59277
19	47.917	-0.04509	2.17747	0.03561	0.83217
20	50.417	-0.08672	1.51761	0.04174	1.07146
21	55.625	-0.14088	0.14050	0.05194	1.56967

VEH: HL93- TANDEM - BRUG(5.75.44) page 15
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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00106	-0.03010	0.00147	0.11847
2	5.417	-0.00056	-0.02482	0.00117	0.12111
3	7.917	-0.00027	-0.02236	0.00100	0.12234
4	10.417	0.00008	-0.01989	0.00080	0.12358
5	11.000	0.00017	-0.01931	0.00076	0.12387
6	11.583	0.00026	-0.01876	0.00071	0.12414
7	16.583	0.00163	-0.01669	0.00058	0.12314
8	19.458	0.00272	-0.01733	0.00074	0.11954
9	22.333	0.00291	-0.01714	0.00102	0.11508
10	27.333	-0.00047	-0.01160	0.00150	0.11040
11	27.917	-0.00126	-0.01056	0.00157	0.11016
12	28.500	-0.00216	-0.00948	0.00165	0.10991
13	33.500	-0.02153	0.00302	0.00542	0.10372
14	36.375	-0.04478	0.01319	0.01084	0.09712
15	39.250	-0.06065	0.02429	0.01651	0.09105
16	44.250	-0.01299	0.04077	0.01918	0.08714
17	44.833	0.00670	0.04245	0.01819	0.08720
18	45.417	-0.04120	-0.53933	0.01711	0.08729
19	47.917	-0.19408	-3.03253	0.01366	0.08767
20	50.417	-0.29983	-5.52554	0.01137	0.08807
21	55.625	-0.45538	-10.71932	0.00869	0.08896

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00084	-0.02452	0.00129	0.10405
2	5.417	-0.00045	-0.02021	0.00102	0.10638
3	7.917	-0.00021	-0.01821	0.00087	0.10748
4	10.417	0.00006	-0.01620	0.00069	0.10857
5	11.000	0.00013	-0.01573	0.00065	0.10883
6	11.583	0.00021	-0.01527	0.00061	0.10907
7	16.583	0.00128	-0.01360	0.00049	0.10817
8	19.458	0.00211	-0.01413	0.00063	0.10496
9	22.333	0.00224	-0.01399	0.00088	0.10099
10	27.333	-0.00038	-0.00948	0.00129	0.09683
11	27.917	-0.00099	-0.00863	0.00133	0.09661
12	28.500	-0.00168	-0.00775	0.00140	0.09639
13	33.500	-0.01626	0.00245	0.00456	0.09091
14	36.375	-0.03327	0.01075	0.00904	0.08505
15	39.250	-0.04432	0.01982	0.01358	0.07968
16	44.250	-0.00924	0.03327	0.01513	0.07622
17	44.833	0.00438	0.03464	0.01425	0.07627
18	45.417	0.02151	0.03600	0.01330	0.07635
19	47.917	-0.15360	-2.45856	0.01046	0.07670
20	50.417	-0.27158	-4.95287	0.00870	0.07706
21	55.625	-0.43901	-10.14932	0.00671	0.07786

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00029	-0.00918	0.00068	0.05553
2	5.417	-0.00015	-0.00754	0.00053	0.05680
3	7.917	-0.00007	-0.00678	0.00044	0.05740
4	10.417	0.00002	-0.00602	0.00034	0.05800
5	11.000	0.00004	-0.00584	0.00032	0.05814
6	11.583	0.00007	-0.00567	0.00030	0.05827
7	16.583	0.00040	-0.00506	0.00023	0.05774
8	19.458	0.00065	-0.00528	0.00031	0.05593
9	22.333	0.00067	-0.00525	0.00044	0.05369
10	27.333	-0.00014	-0.00356	0.00061	0.05136
11	27.917	-0.00032	-0.00324	0.00063	0.05124
12	28.500	-0.00052	-0.00291	0.00065	0.05112
13	33.500	-0.00460	0.00095	0.00210	0.04808
14	36.375	-0.00892	0.00411	0.00405	0.04485
15	39.250	-0.01125	0.00756	0.00582	0.04189
16	44.250	-0.00202	0.01268	0.00558	0.03998
17	44.833	0.00093	0.01319	0.00509	0.04001
18	45.417	0.00447	0.01369	0.00460	0.04006
19	47.917	0.03853	0.01593	0.00329	0.04027
20	50.417	-0.15062	-2.48213	0.00262	0.04048
21	55.625	-0.37350	-7.68588	0.00198	0.04094

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00013	-0.00450	0.00030	0.02470
2	5.417	-0.00007	-0.00371	0.00023	0.02528
3	7.917	-0.00003	-0.00335	0.00019	0.02555
4	10.417	0.00001	-0.00298	0.00014	0.02582
5	11.000	0.00002	-0.00290	0.00013	0.02589
6	11.583	0.00003	-0.00281	0.00012	0.02595
7	16.583	0.00016	-0.00252	0.00009	0.02569
8	19.458	0.00025	-0.00264	0.00012	0.02484
9	22.333	0.00025	-0.00263	0.00018	0.02381
10	27.333	-0.00007	-0.00182	0.00024	0.02273
11	27.917	-0.00014	-0.00167	0.00025	0.02267
12	28.500	-0.00022	-0.00151	0.00026	0.02261
13	33.500	-0.00169	0.00036	0.00085	0.02122
14	36.375	-0.00315	0.00190	0.00163	0.01974
15	39.250	-0.00379	0.00358	0.00229	0.01839
16	44.250	-0.00064	0.00607	0.00195	0.01753
17	44.833	0.00023	0.00631	0.00173	0.01755
18	45.417	0.00124	0.00655	0.00151	0.01757
19	47.917	0.00990	0.00760	0.00093	0.01767
20	50.417	0.04788	0.00877	0.00065	0.01776
21	55.625	-0.26546	-5.19759	0.00042	0.01798

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.01676	0.87774	-0.03836	-1.44880
2	5.417	0.01362	0.74003	-0.02461	-0.93912
3	7.917	0.01161	0.67629	-0.01636	-0.70369
4	10.417	0.00889	0.61245	-0.00602	-0.46814
5	11.000	0.00810	0.59754	-0.00315	-0.41316
6	11.583	0.00729	0.58197	-0.00030	-0.35844
7	16.583	0.00230	0.34898	0.01234	0.06116
8	19.458	0.00016	0.13923	0.01211	0.22074
9	22.333	-0.00142	-0.06027	0.00841	0.27603
10	27.333	-0.00327	-0.25013	0.00354	0.25736
11	27.917	-0.00343	-0.25975	0.00321	0.25174
12	28.500	-0.00358	-0.26869	0.00291	0.24611
13	33.500	-0.00469	-0.34331	0.00154	0.21523
14	36.375	-0.00499	-0.37006	0.00171	0.20991
15	39.250	-0.00477	-0.36068	0.00219	0.20078
16	44.250	-0.00365	-0.28338	0.00225	0.15373
17	44.833	-0.00349	-0.27137	0.00218	0.14584
18	45.417	-0.00332	-0.25922	0.00211	0.13782
19	47.917	-0.00261	-0.20720	0.00179	0.10351
20	50.417	-0.00193	-0.15530	0.00146	0.06931
21	55.625	-0.00055	-0.04755	0.00078	-0.00157

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.00124	0.04996	-0.01409	-0.84097
2	5.417	0.00068	0.02549	-0.00400	-0.43185
3	7.917	0.00039	0.01419	0.00152	-0.24266
4	10.417	0.00008	0.00288	0.00773	-0.05325
5	11.000	0.00000	0.00025	0.00930	-0.00903
6	11.583	-0.00007	-0.00237	0.01085	0.03483
7	16.583	-0.00057	-0.02118	0.01703	0.34463
8	19.458	-0.00068	-0.02583	0.01491	0.42935
9	22.333	-0.00058	-0.02245	0.00992	0.41351
10	27.333	-0.00015	-0.00752	0.00242	0.30063
11	27.917	-0.00009	-0.00550	0.00169	0.28627
12	28.500	-0.00003	-0.00348	0.00100	0.27210
13	33.500	0.00032	0.01005	-0.00112	0.18125
14	36.375	0.00035	0.01309	0.00055	0.15398
15	39.250	0.00026	0.01184	0.00283	0.12793
16	44.250	0.00010	0.00731	0.00369	0.04197
17	44.833	0.00009	0.00684	0.00350	0.02842
18	45.417	0.00007	0.00638	0.00330	0.01469
19	47.917	0.00002	0.00439	0.00245	-0.04406
20	50.417	-0.00003	0.00239	0.00163	-0.10260
21	55.625	-0.00013	-0.00176	0.00002	-0.22386

VEH: HL93- TANDEM - BRUG(5.75.44) page 21
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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00926	-0.67363	-0.00334	-0.41095
2	5.417	-0.00812	-0.59893	0.00311	-0.08844
3	7.917	-0.00752	-0.56429	0.00647	0.06093
4	10.417	-0.00685	-0.52957	0.01013	0.21060
5	11.000	-0.00669	-0.52146	0.01103	0.24556
6	11.583	-0.00652	-0.51273	0.01191	0.28004
7	16.583	-0.00447	-0.34441	0.01447	0.49265
8	19.458	-0.00271	-0.17005	0.01137	0.50919
9	22.333	-0.00073	0.01041	0.00558	0.42800
10	27.333	0.00249	0.20428	-0.00480	0.22971
11	27.917	0.00287	0.21651	-0.00610	0.20757
12	28.500	0.00324	0.22812	-0.00733	0.18581
13	33.500	0.00524	0.31894	-0.00916	0.03935
14	36.375	0.00541	0.34820	-0.00430	-0.01047
15	39.250	0.00484	0.33791	0.00137	-0.05428
16	44.250	0.00336	0.26246	0.00409	-0.17575
17	44.833	0.00318	0.25115	0.00380	-0.19414
18	45.417	0.00300	0.23973	0.00347	-0.21275
19	47.917	0.00225	0.19086	0.00210	-0.29235
20	50.417	0.00153	0.14208	0.00080	-0.37166
21	55.625	0.00011	0.04079	-0.00169	-0.53589

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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	-0.00012	0.03965	-0.00211	-0.59767
2	5.417	0.00165	0.16023	0.00060	-0.42041
3	7.917	0.00254	0.21607	0.00196	-0.33807
4	10.417	0.00348	0.27203	0.00338	-0.25542
5	11.000	0.00371	0.28510	0.00373	-0.23609
6	11.583	0.00394	0.29804	0.00403	-0.21701
7	16.583	0.00600	0.38421	0.00077	-0.09018
8	19.458	0.00701	0.39592	-0.00581	-0.04358
9	22.333	0.00702	0.36293	-0.01160	0.00973
10	27.333	0.00404	0.26109	-0.01016	0.16446
11	27.917	0.00337	0.24812	-0.00880	0.18733
12	28.500	0.00269	0.23444	-0.00737	0.21060
13	33.500	-0.00173	0.01472	0.00392	0.42135
14	36.375	-0.00382	-0.19150	0.01016	0.51205
15	39.250	-0.00552	-0.39188	0.01367	0.50540
16	44.250	-0.00760	-0.58715	0.01180	0.30684
17	44.833	-0.00779	-0.59747	0.01101	0.27369
18	45.417	-0.00797	-0.60709	0.01020	0.24006
19	47.917	-0.00870	-0.64829	0.00691	0.09611
20	50.417	-0.00937	-0.68938	0.00385	-0.04753
21	55.625	-0.01063	-0.77464	-0.00186	-0.34575

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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	-0.00014	-0.00194	-0.00004	-0.22878
2	5.417	-0.00003	0.00239	0.00163	-0.10274
3	7.917	0.00002	0.00438	0.00245	-0.04421
4	10.417	0.00007	0.00637	0.00330	0.01453
5	11.000	0.00009	0.00684	0.00350	0.02827
6	11.583	0.00010	0.00731	0.00369	0.04181
7	16.583	0.00026	0.01184	0.00283	0.12776
8	19.458	0.00035	0.01309	0.00055	0.15382
9	22.333	0.00032	0.01005	-0.00113	0.18109
10	27.333	-0.00003	-0.00348	0.00100	0.27193
11	27.917	-0.00009	-0.00550	0.00169	0.28610
12	28.500	-0.00015	-0.00753	0.00241	0.30047
13	33.500	-0.00058	-0.02246	0.00992	0.41334
14	36.375	-0.00068	-0.02584	0.01491	0.42918
15	39.250	-0.00057	-0.02119	0.01702	0.34446
16	44.250	-0.00007	-0.00238	0.01084	0.03464
17	44.833	0.00000	0.00024	0.00930	-0.00922
18	45.417	0.00008	0.00288	0.00772	-0.05344
19	47.917	0.00039	0.01418	0.00151	-0.24286
20	50.417	0.00068	0.02548	-0.00401	-0.43206
21	55.625	0.00122	0.04902	-0.01380	-0.82552

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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	-0.00042	-0.03942	0.00073	-0.02420
2	5.417	-0.00164	-0.13610	0.00154	0.05630
3	7.917	-0.00223	-0.18090	0.00192	0.09368
4	10.417	-0.00284	-0.22580	0.00230	0.13118
5	11.000	-0.00298	-0.23629	0.00238	0.13994
6	11.583	-0.00312	-0.24665	0.00247	0.14857
7	16.583	-0.00410	-0.31311	0.00232	0.20047
8	19.458	-0.00431	-0.32093	0.00167	0.21147
9	22.333	-0.00408	-0.29781	0.00137	0.21924
10	27.333	-0.00309	-0.23410	0.00290	0.25739
11	27.917	-0.00295	-0.22652	0.00326	0.26409
12	28.500	-0.00280	-0.21834	0.00364	0.27080
13	33.500	-0.00091	-0.05435	0.00912	0.30100
14	36.375	0.00078	0.11935	0.01338	0.25428
15	39.250	0.00282	0.30303	0.01430	0.10377
16	44.250	0.00641	0.50900	0.00306	-0.30216
17	44.833	0.00685	0.52297	0.00043	-0.35550
18	45.417	0.00730	0.53636	-0.00224	-0.40910
19	47.917	0.00895	0.59371	-0.01205	-0.63876
20	50.417	0.01035	0.65096	-0.02008	-0.86830
21	55.625	0.01274	0.76993	-0.03329	-1.34608

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

Slab 7 section top appendix

Load at node	Distance	Moment concentr.	Moment u.d.l.	Axial force concentr.	Axial force u.d.l.
1	0.000	-0.31652	-11.00812	-0.08133	-0.88232
2	5.417	-0.21270	-7.03915	-0.09548	-0.76450
3	7.917	-0.14881	-5.20608	-0.10443	-0.71035
4	10.417	-0.06355	-3.37218	-0.11023	-0.65627
5	11.000	-0.03842	-2.94416	-0.11009	-0.64365
6	11.583	-0.01327	-2.51886	-0.10892	-0.63089
7	16.583	0.09229	0.63318	-0.07121	-0.50097
8	19.458	0.09053	1.71907	-0.04311	-0.41230
9	22.333	0.06120	1.98470	-0.02043	-0.32889
10	27.333	0.02325	1.68983	-0.00392	-0.22105
11	27.917	0.02077	1.64057	-0.00311	-0.21129
12	28.500	0.01847	1.59181	-0.00237	-0.20180
13	33.500	0.00733	1.30411	0.00096	-0.14037
14	36.375	0.00770	1.24588	0.00083	-0.12434
15	39.250	0.01075	1.19432	-0.00016	-0.11664
16	44.250	0.01212	0.93364	-0.00111	-0.09010
17	44.833	0.01183	0.88840	-0.00113	-0.08539
18	45.417	0.01151	0.84234	-0.00114	-0.08060
19	47.917	0.01012	0.64539	-0.00116	-0.06009
20	50.417	0.00867	0.44916	-0.00115	-0.03968
21	55.625	0.00552	0.04278	-0.00105	0.00256

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.27092	-9.75210	-0.07240	-0.80018
2	5.417	-0.17885	-6.21536	-0.08445	-0.69324
3	7.917	-0.12373	-4.58190	-0.09194	-0.64406
4	10.417	-0.05324	-2.94786	-0.09661	-0.59498
5	11.000	-0.03325	-2.56654	-0.09642	-0.58352
6	11.583	-0.01329	-2.18774	-0.09535	-0.57192
7	16.583	0.07587	0.60666	-0.06258	-0.45266
8	19.458	0.07616	1.55442	-0.03799	-0.37037
9	22.333	0.05236	1.76914	-0.01805	-0.29280
10	27.333	0.02020	1.48329	-0.00345	-0.19334
11	27.917	0.01805	1.43809	-0.00272	-0.18443
12	28.500	0.01607	1.39343	-0.00206	-0.17579
13	33.500	0.00629	1.12751	0.00092	-0.11946
14	36.375	0.00654	1.07254	0.00078	-0.10455
15	39.250	0.00917	1.02775	-0.00012	-0.09766
16	44.250	0.01039	0.80367	-0.00098	-0.07494
17	44.833	0.01014	0.76459	-0.00100	-0.07091
18	45.417	0.00988	0.72480	-0.00101	-0.06679
19	47.917	0.00869	0.55462	-0.00103	-0.04919
20	50.417	0.00746	0.38506	-0.00102	-0.03167
21	55.625	0.00478	0.03398	-0.00094	0.00457

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.13674	-5.33014	-0.03972	-0.50557
2	5.417	-0.08589	-3.31635	-0.04473	-0.43694
3	7.917	-0.05743	-2.38634	-0.04758	-0.40535
4	10.417	-0.02424	-1.45598	-0.04883	-0.37381
5	11.000	-0.01560	-1.23885	-0.04851	-0.36645
6	11.583	-0.00701	-1.02350	-0.04784	-0.35897
7	16.583	0.03659	0.51191	-0.03173	-0.27721
8	19.458	0.03821	0.97399	-0.01945	-0.21729
9	22.333	0.02692	1.01049	-0.00934	-0.16017
10	27.333	0.01005	0.75763	-0.00161	-0.09015
11	27.917	0.00887	0.72680	-0.00119	-0.08428
12	28.500	0.00776	0.69659	-0.00082	-0.07859
13	33.500	0.00203	0.50740	0.00087	-0.04020
14	36.375	0.00196	0.46357	0.00073	-0.02922
15	39.250	0.00339	0.44203	0.00014	-0.02519
16	44.250	0.00439	0.34604	-0.00043	-0.01598
17	44.833	0.00432	0.32857	-0.00044	-0.01430
18	45.417	0.00423	0.31075	-0.00045	-0.01258
19	47.917	0.00382	0.23455	-0.00047	-0.00525
20	50.417	0.00339	0.15868	-0.00048	0.00204
21	55.625	0.00241	0.00172	-0.00047	0.01709

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.00312	-1.56932	0.00730	-0.11663
2	5.417	-0.01796	-2.49215	0.00288	-0.19059
3	7.917	-0.02905	-2.91815	0.00022	-0.22443
4	10.417	-0.04124	-3.34420	-0.00302	-0.25809
5	11.000	-0.04428	-3.44362	-0.00389	-0.26592
6	11.583	-0.04745	-3.54184	-0.00484	-0.27398
7	16.583	-0.08768	-4.13208	-0.02309	-0.37713
8	19.458	-0.11641	-3.95593	-0.04691	-0.45804
9	22.333	-0.11959	-3.00629	-0.07498	-0.52544
10	27.333	-0.02376	-0.34603	-0.10921	-0.57204
11	27.917	0.00003	0.00333	-0.10975	-0.57232
12	28.500	0.02382	0.35264	-0.10921	-0.57204
13	33.500	0.11966	3.01287	-0.07498	-0.52544
14	36.375	0.11649	3.96248	-0.04691	-0.45803
15	39.250	0.08776	4.13860	-0.02309	-0.37711
16	44.250	0.04753	3.54835	-0.00484	-0.27396
17	44.833	0.04436	3.45011	-0.00389	-0.26590
18	45.417	0.04132	3.35070	-0.00302	-0.25807
19	47.917	0.02911	2.92465	0.00022	-0.22442
20	50.417	0.01801	2.49865	0.00289	-0.19059
21	55.625	-0.00242	1.61128	0.00721	-0.11952

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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	0.00329	-1.31160	0.00671	-0.09273
2	5.417	-0.01521	-2.13391	0.00270	-0.16199
3	7.917	-0.02488	-2.51351	0.00029	-0.19370
4	10.417	-0.03546	-2.89315	-0.00264	-0.22525
5	11.000	-0.03808	-2.98173	-0.00342	-0.23259
6	11.583	-0.04081	-3.06935	-0.00428	-0.24014
7	16.583	-0.07474	-3.61015	-0.02062	-0.33641
8	19.458	-0.09781	-3.47407	-0.04179	-0.41171
9	22.333	-0.09864	-2.65137	-0.06658	-0.47433
10	27.333	-0.01855	-0.30680	-0.09630	-0.51759
11	27.917	0.00003	0.00288	-0.09676	-0.51785
12	28.500	0.01860	0.31252	-0.09630	-0.51759
13	33.500	0.09870	2.65707	-0.06658	-0.47433
14	36.375	0.09788	3.47974	-0.04179	-0.41170
15	39.250	0.07481	3.61580	-0.02062	-0.33640
16	44.250	0.04088	3.07499	-0.00428	-0.24012
17	44.833	0.03815	2.98735	-0.00342	-0.23257
18	45.417	0.03552	2.89877	-0.00264	-0.22523
19	47.917	0.02494	2.51913	0.00029	-0.19369
20	50.417	0.01525	2.13953	0.00271	-0.16199
21	55.625	-0.00267	1.34883	0.00662	-0.09543

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	0.00541	-0.40664	0.00468	-0.00258
2	5.417	-0.00469	-0.87463	0.00216	-0.05540
3	7.917	-0.00988	-1.09067	0.00066	-0.07964
4	10.417	-0.01547	-1.30674	-0.00113	-0.10380
5	11.000	-0.01684	-1.35716	-0.00160	-0.10943
6	11.583	-0.01826	-1.40738	-0.00212	-0.11521
7	16.583	-0.03520	-1.77336	-0.01145	-0.18742
8	19.458	-0.04553	-1.77777	-0.02302	-0.24308
9	22.333	-0.04444	-1.40165	-0.03615	-0.28902
10	27.333	-0.00740	-0.16864	-0.05076	-0.32056
11	27.917	0.00001	0.00131	-0.05096	-0.32076
12	28.500	0.00742	0.17122	-0.05076	-0.32056
13	33.500	0.04446	1.40423	-0.03615	-0.28902
14	36.375	0.04556	1.78034	-0.02302	-0.24307
15	39.250	0.03523	1.77592	-0.01145	-0.18741
16	44.250	0.01829	1.40993	-0.00212	-0.11520
17	44.833	0.01687	1.35970	-0.00160	-0.10942
18	45.417	0.01550	1.30928	-0.00113	-0.10379
19	47.917	0.00991	1.09321	0.00067	-0.07963
20	50.417	0.00471	0.87717	0.00216	-0.05539
21	55.625	-0.00507	0.42717	0.00462	-0.00463

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00534	-0.02317	-0.00104	0.00463
2	5.417	-0.00863	-0.44554	-0.00114	-0.03927
3	7.917	-0.01008	-0.64173	-0.00115	-0.05968
4	10.417	-0.01147	-0.83866	-0.00113	-0.08018
5	11.000	-0.01179	-0.88470	-0.00112	-0.08498
6	11.583	-0.01208	-0.92993	-0.00111	-0.08968
7	16.583	-0.01071	-1.19059	-0.00016	-0.11622
8	19.458	-0.00766	-1.24215	0.00083	-0.12392
9	22.333	-0.00729	-1.30038	0.00096	-0.13995
10	27.333	-0.01844	-1.58806	-0.00237	-0.20139
11	27.917	-0.02073	-1.63682	-0.00310	-0.21087
12	28.500	-0.02321	-1.68607	-0.00392	-0.22063
13	33.500	-0.06118	-1.98093	-0.02042	-0.32848
14	36.375	-0.09052	-1.71531	-0.04310	-0.41189
15	39.250	-0.09229	-0.62941	-0.07118	-0.50056
16	44.250	0.01333	2.52270	-0.10891	-0.63049
17	44.833	0.03849	2.94808	-0.11009	-0.64325
18	45.417	0.06363	3.37610	-0.11024	-0.65587
19	47.917	0.14899	5.21005	-0.10449	-0.70995
20	50.417	0.21311	7.04319	-0.09565	-0.76410
21	55.625	0.31450	10.85983	-0.08222	-0.87736

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Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00463	-0.01703	-0.00093	0.00629
2	5.417	-0.00742	-0.38192	-0.00102	-0.03137
3	7.917	-0.00866	-0.55144	-0.00103	-0.04889
4	10.417	-0.00984	-0.72159	-0.00100	-0.06649
5	11.000	-0.01011	-0.76138	-0.00100	-0.07060
6	11.583	-0.01035	-0.80046	-0.00098	-0.07464
7	16.583	-0.00913	-1.02451	-0.00011	-0.09735
8	19.458	-0.00651	-1.06930	0.00078	-0.10424
9	22.333	-0.00625	-1.12427	0.00092	-0.11915
10	27.333	-0.01604	-1.39018	-0.00206	-0.17548
11	27.917	-0.01802	-1.43484	-0.00271	-0.18413
12	28.500	-0.02017	-1.48003	-0.00344	-0.19303
13	33.500	-0.05234	-1.76586	-0.01804	-0.29249
14	36.375	-0.07615	-1.55115	-0.03798	-0.37007
15	39.250	-0.07586	-0.60338	-0.06257	-0.45236
16	44.250	0.01333	2.19107	-0.09535	-0.57162
17	44.833	0.03331	2.56995	-0.09642	-0.58322
18	45.417	0.05331	2.95128	-0.09662	-0.59468
19	47.917	0.12388	4.58536	-0.09199	-0.64377
20	50.417	0.17917	6.21888	-0.08460	-0.69293
21	55.625	0.26899	9.61988	-0.07318	-0.79575

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date 11/09/2009; time 13:23:22
Cline Avenue - Load Rating - Double Box Mainline - 4 Webs -

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	-0.00235	0.00592	-0.00046	0.01770
2	5.417	-0.00337	-0.15721	-0.00048	0.00205
3	7.917	-0.00381	-0.23306	-0.00047	-0.00524
4	10.417	-0.00421	-0.30924	-0.00045	-0.01256
5	11.000	-0.00430	-0.32706	-0.00044	-0.01428
6	11.583	-0.00438	-0.34453	-0.00043	-0.01596
7	16.583	-0.00337	-0.44051	0.00014	-0.02517
8	19.458	-0.00195	-0.46205	0.00073	-0.02920
9	22.333	-0.00201	-0.50587	0.00087	-0.04018
10	27.333	-0.00774	-0.69506	-0.00082	-0.07857
11	27.917	-0.00885	-0.72527	-0.00119	-0.08426
12	28.500	-0.01004	-0.75610	-0.00161	-0.09013
13	33.500	-0.02691	-1.00895	-0.00933	-0.16015
14	36.375	-0.03820	-0.97244	-0.01944	-0.21727
15	39.250	-0.03659	-0.51036	-0.03172	-0.27718
16	44.250	0.00703	1.02508	-0.04784	-0.35894
17	44.833	0.01562	1.24048	-0.04852	-0.36642
18	45.417	0.02427	1.45761	-0.04883	-0.37378
19	47.917	0.05749	2.38799	-0.04761	-0.40532
20	50.417	0.08603	3.31803	-0.04481	-0.43691
21	55.625	0.13547	5.25452	-0.04010	-0.50289

```
 PROGRAM  : BRUG(5.75.44 DATE  : 11/09/2009 START : 13:23:22
 PROJECT  : VEH: HL93- T DATE  : 11/09/2009 END   : 13:23:22
                                     TOTAL (msec) :        328
```