



## BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction SS  
 Year of Construction 1959  
 Roadway Width 32.000  
 Center to Center Truss 38.833  
 Number of Spans 1  
 Live Load Distribution Factor 1.5840

Comments:

Truss I. D. 1 Truss Type: THROUGH

Span Length: Span 1  
250.000

Number of Panels: 10 Symmetry:

| Panel No. | Panel Code | Panel Length | Sub-Divided Panel Length | Vertical Height | Sub-Divided Vertical |
|-----------|------------|--------------|--------------------------|-----------------|----------------------|
| 1         | 7          | 25.000       | 0.000                    | 28.000          | 0.000                |
| 2         | 2          | 25.000       | 0.000                    | 34.670          | 0.000                |
| 3         | 2          | 25.000       | 0.000                    | 38.670          | 0.000                |
| 4         | 2          | 25.000       | 0.000                    | 40.000          | 0.000                |
| 5         | 4          | 25.000       | 0.000                    | 40.000          | 0.000                |
| 6         | 3          | 25.000       | 0.000                    | 40.000          | 0.000                |
| 7         | 1          | 25.000       | 0.000                    | 38.670          | 0.000                |
| 8         | 1          | 25.000       | 0.000                    | 34.670          | 0.000                |
| 9         | 1          | 25.000       | 0.000                    | 28.000          | 0.000                |
| 10        | 5          | 25.000       | 0.000                    | 0.000           | 0.000                |

Superimposed Dead Load:

Uniform Dead Load  
 (kips/ft)  
 Loaded Chord      Unloaded Chord  
  
 0.441      0.000

Superimposed Dead Load:

| Loaded Chord Dist. | Loaded Chord Load | Unloaded Chord Dist. | Unloaded Chord Load |
|--------------------|-------------------|----------------------|---------------------|
| 0.000              | 27.810            | 0.000                | 0.000               |
| 25.000             | 58.720            | 0.000                | 0.000               |
| 50.000             | 51.410            | 0.000                | 0.000               |

|         |        |       |       |
|---------|--------|-------|-------|
| 75.000  | 53.130 | 0.000 | 0.000 |
| 100.000 | 52.680 | 0.000 | 0.000 |
| 125.000 | 52.830 | 0.000 | 0.000 |
| 150.000 | 52.680 | 0.000 | 0.000 |
| 175.000 | 53.130 | 0.000 | 0.000 |
| 200.000 | 51.410 | 0.000 | 0.000 |
| 225.000 | 58.720 | 0.000 | 0.000 |

#### Truss Members Selected:

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L 0L 1
L 0U 1
U 1L 1
U 1U 2
L 1L 2
U 1L 2
U 2L 2
U 2U 3
L 2L 3
U 2L 3
U 3L 3
U 3U 4
L 3L 4
U 3L 4
U 4L 4
L 4L 5
U 4U 5
U 4L 5
L 4U 5
U 5L 5
L 5L 6
U 5U 6
L 5U 6
U 5L 6
U 6L 6
L 6L 7
U 6U 7
L 6U 7
U 7L 7
L 7L 8
U 7U 8
L 7U 8
U 8L 8
L 8L 9
U 8U 9
L 8U 9
U 9L 9
L 9L10
U 9L10

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NOTE: All distances are shown in decimal feet, moments are shown in foot-kips, and shears are shown in kips. Section and section properties are shown as: in., in.\*\*2, in.\*\*3, and in.\*\*4. Axial loads are shown in kips.

## SECTION DATA ( ASD/LFD )

Structure I. D. HAM500

Truss I. D. 1  
 Rating Type: INV.  
 Rating Live Load: HS20

## Member Properties:

| Member | Effective<br>X (ft) | Length<br>Y (ft) | Allowable<br>Ten. | Stress<br>Comp. | Gross<br>Area | Net<br>Area |
|--------|---------------------|------------------|-------------------|-----------------|---------------|-------------|
| L 0L 1 | 25.000              | 25.000           | 18150.0           | 14421.0         | 29.24         | 28.75       |
| L 0U 1 | 37.537              | 37.537           | 18150.0           | 14238.0         | 55.60         | 55.60       |
| U 1L 1 | 28.000              | 28.000           | 18150.0           | 5837.0          | 11.80         | 11.51       |
| U 1U 2 | 25.874              | 25.874           | 18150.0           | 14958.0         | 45.20         | 45.20       |
| L 1L 2 | 25.000              | 25.000           | 18150.0           | 14421.0         | 29.24         | 28.75       |
| U 1L 2 | 37.537              | 37.537           | 18150.0           | 7915.0          | 19.10         | 19.10       |
| U 2L 2 | 34.670              | 34.670           | 18150.0           | 9039.0          | 19.10         | 19.10       |
| U 2U 3 | 25.318              | 25.318           | 18150.0           | 14972.0         | 52.00         | 52.00       |
| L 2L 3 | 25.000              | 25.000           | 18150.0           | 14421.0         | 40.50         | 39.83       |
| U 2L 3 | 42.741              | 42.741           | 18150.0           | 4117.0          | 15.60         | 15.60       |
| U 3L 3 | 38.670              | 19.335           | 18150.0           | 10618.0         | 11.80         | 11.51       |
| U 3U 4 | 25.035              | 25.035           | 18150.0           | 14975.0         | 55.60         | 55.60       |
| L 3L 4 | 25.000              | 25.000           | 18150.0           | 14421.0         | 49.50         | 48.67       |
| U 3L 4 | 46.048              | 23.024           | 18150.0           | 8643.0          | 13.20         | 12.88       |
| U 4L 4 | 40.000              | 20.000           | 18150.0           | 10272.0         | 11.80         | 11.51       |
| L 4L 5 | 25.000              | 25.000           | 18150.0           | 14421.0         | 54.00         | 53.10       |
| U 4U 5 | 25.000              | 25.000           | 18150.0           | 14977.0         | 55.60         | 55.60       |
| U 4L 5 | 47.170              | 23.585           | 18150.0           | 5276.0          | 10.64         | 10.07       |
| L 4U 5 | 47.170              | 23.585           | 18150.0           | 5276.0          | 10.64         | 10.07       |
| U 5L 5 | 40.000              | 20.000           | 18150.0           | 10272.0         | 11.80         | 11.51       |
| L 5L 6 | 25.000              | 25.000           | 18150.0           | 14421.0         | 54.00         | 53.10       |
| U 5U 6 | 25.000              | 25.000           | 18150.0           | 14977.0         | 55.60         | 55.60       |
| L 5U 6 | 47.170              | 23.585           | 18150.0           | 5276.0          | 10.64         | 10.07       |
| U 5L 6 | 47.170              | 23.585           | 18150.0           | 5276.0          | 10.64         | 10.07       |
| U 6L 6 | 40.000              | 20.000           | 18150.0           | 10232.0         | 10.93         | 10.50       |
| L 6L 7 | 25.000              | 25.000           | 18150.0           | 14421.0         | 49.50         | 48.67       |
| U 6U 7 | 25.035              | 25.035           | 18150.0           | 14975.0         | 55.60         | 55.60       |
| L 6U 7 | 46.048              | 23.024           | 18150.0           | 8643.0          | 13.20         | 12.88       |
| U 7L 7 | 38.670              | 19.335           | 18150.0           | 10731.0         | 11.49         | 11.15       |
| L 7L 8 | 25.000              | 25.000           | 18150.0           | 14421.0         | 40.50         | 39.83       |
| U 7U 8 | 25.318              | 25.318           | 18150.0           | 14972.0         | 52.00         | 52.00       |
| L 7U 8 | 42.743              | 42.743           | 18150.0           | 4049.0          | 15.00         | 14.95       |
| U 8L 8 | 34.670              | 34.670           | 18150.0           | 9039.0          | 19.10         | 19.10       |
| L 8L 9 | 25.000              | 25.000           | 18150.0           | 14421.0         | 29.24         | 28.75       |
| U 8U 9 | 25.874              | 25.874           | 18150.0           | 14958.0         | 45.20         | 45.20       |
| L 8U 9 | 37.537              | 37.537           | 18150.0           | 8378.0          | 17.01         | 17.01       |
| U 9L 9 | 28.000              | 28.000           | 18150.0           | 6004.0          | 11.30         | 10.93       |
| L 9L10 | 25.000              | 25.000           | 18150.0           | 14421.0         | 29.24         | 28.75       |
| U 9L10 | 37.537              | 37.537           | 18150.0           | 14238.0         | 55.60         | 55.60       |

## AXIAL CAPACITY REPORT

Structure I. D.

HAM500

Truss I. D. 1  
 Rating Type: INV.  
 Rating Live Load: HS20

| Member | Axial<br>Capacity | TENSION            | Available<br>Capacity | COMPRESSION       | Axial<br>Dead Load | Available<br>Capacity |
|--------|-------------------|--------------------|-----------------------|-------------------|--------------------|-----------------------|
|        |                   | Axial<br>Dead Load |                       | Axial<br>Capacity |                    |                       |
| L 0L 1 | 437.9             | 290.2              | 263.8                 | -350.7            | 0.0                | -524.9                |
| L 0U 1 | 846.8             | 0.0                | 1108.3                | -658.4            | -435.8             | -396.9                |
| U 1L 1 | 175.3             | 69.7               | 133.5                 | -57.3             | 0.0                | -99.1                 |
| U 1U 2 | 688.4             | 0.0                | 945.0                 | -562.3            | -427.7             | -305.7                |
| L 1L 2 | 437.9             | 290.2              | 263.8                 | -350.7            | 0.0                | -524.9                |
| U 1L 2 | 290.9             | 184.6              | 180.1                 | -125.7            | 0.0                | -236.5                |
| U 2L 2 | 290.9             | 0.0                | 336.1                 | -143.6            | -75.3              | -98.4                 |
| U 2U 3 | 792.0             | 0.0                | 1087.1                | -647.5            | -491.8             | -352.4                |
| L 2L 3 | 606.6             | 413.2              | 358.6                 | -485.7            | 0.0                | -733.7                |
| U 2L 3 | 237.6             | 123.9              | 163.3                 | -53.4             | 0.0                | -127.7                |
| U 3L 3 | 175.3             | 0.0                | 197.1                 | -104.2            | -36.3              | -82.4                 |
| U 3U 4 | 846.8             | 0.0                | 1169.0                | -692.5            | -536.9             | -370.3                |
| L 3L 4 | 741.4             | 485.7              | 450.0                 | -593.7            | 0.0                | -885.1                |
| U 3L 4 | 196.2             | 93.1               | 140.3                 | -94.9             | 0.0                | -150.7                |
| U 4L 4 | 175.3             | 0.0                | 184.0                 | -100.8            | -14.4              | -92.1                 |
| L 4L 5 | 808.8             | 536.2              | 487.0                 | -647.7            | 0.0                | -969.4                |
| U 4U 5 | 846.8             | 0.0                | 1181.9                | -692.6            | -558.4             | -357.5                |
| U 4L 5 | 153.4             | 42.0               | 128.2                 | 0.0               | 0.0                | 0.0                   |
| L 4U 5 | 153.4             | 0.0                | 153.4                 | 0.0               | 0.0                | 0.0                   |
| U 5L 5 | 175.3             | -7.4               | 179.7                 | -100.8            | -7.4               | -96.4                 |
| L 5L 6 | 808.8             | 536.2              | 487.0                 | -647.7            | 0.0                | -969.4                |
| U 5U 6 | 846.8             | 0.0                | 1181.9                | -692.6            | -558.4             | -357.5                |
| L 5U 6 | 153.4             | 42.0               | 128.2                 | 0.0               | 0.0                | 0.0                   |
| U 5L 6 | 153.4             | 0.0                | 153.4                 | 0.0               | 0.0                | 0.0                   |
| U 6L 6 | 160.0             | 0.0                | 168.6                 | -93.0             | -14.4              | -84.3                 |
| L 6L 7 | 741.4             | 485.7              | 450.0                 | -593.7            | 0.0                | -885.1                |
| U 6U 7 | 846.8             | 0.0                | 1169.0                | -692.5            | -536.9             | -370.3                |
| L 6U 7 | 196.2             | 93.1               | 140.3                 | -94.9             | 0.0                | -150.7                |
| U 7L 7 | 169.8             | 0.0                | 191.6                 | -102.5            | -36.3              | -80.7                 |
| L 7L 8 | 606.6             | 413.2              | 358.6                 | -485.7            | 0.0                | -733.7                |
| U 7U 8 | 792.0             | 0.0                | 1087.1                | -647.5            | -491.8             | -352.4                |
| L 7U 8 | 227.6             | 123.9              | 153.3                 | -50.5             | 0.0                | -124.8                |
| U 8L 8 | 290.9             | 0.0                | 336.1                 | -143.6            | -75.3              | -98.4                 |
| L 8L 9 | 437.9             | 290.2              | 263.8                 | -350.7            | 0.0                | -524.9                |
| U 8U 9 | 688.4             | 0.0                | 945.0                 | -562.3            | -427.7             | -305.7                |
| L 8U 9 | 259.1             | 184.6              | 148.4                 | -118.6            | 0.0                | -229.3                |
| U 9L 9 | 166.5             | 69.7               | 124.7                 | -56.4             | 0.0                | -98.3                 |
| L 9L10 | 437.9             | 290.2              | 263.8                 | -350.7            | 0.0                | -524.9                |
| U 9L10 | 846.8             | 0.0                | 1108.3                | -658.4            | -435.8             | -396.9                |

## RATING REPORT

Structure I. D. HAM500

Truss I. D. 1  
 Rating Type: INV.  
 Rating Live Load: HS20

|        | Available Capacity | Live Load + Impact | Rating Factor | Load Capacity<br>(tons) |
|--------|--------------------|--------------------|---------------|-------------------------|
| L 0L 1 | 263.8              | 70.69              | 3.73          | 134.4                   |
| L 0U 1 | -396.9             | -114.80            | 3.46          | 124.5                   |
| U 1L 1 | 133.5              | 50.51              | 2.64          | 95.1                    |
| U 1U 2 | -305.7             | -105.04            | 2.91          | 104.8                   |
| L 1L 2 | 263.8              | 70.69              | 3.73          | 134.4                   |
| U 1L 2 | 180.1              | 57.08              | 3.16          | 113.6                   |
| U 2L 2 | -98.4              | -33.91             | 2.90          | 104.5                   |
| U 2U 3 | -352.4             | -120.94            | 2.91          | 104.9                   |
| L 2L 3 | 358.6              | 101.49             | 3.53          | 127.2                   |
| U 2L 3 | 163.3              | 47.35              | 3.45          | 124.1                   |
| U 3L 3 | -82.4              | -29.86             | 2.76          | 99.4                    |
| U 3U 4 | -370.3             | -132.13            | 2.80          | 100.9                   |
| L 3L 4 | 450.0              | 119.42             | 3.77          | 135.6                   |
| U 3L 4 | 140.3              | 45.29              | 3.10          | 111.6                   |
| U 4L 4 | -92.1              | -28.54             | 3.23          | 116.2                   |
| L 4L 5 | 487.0              | 131.95             | 3.69          | 132.9                   |
| U 4U 5 | -357.5             | -137.44            | 2.60          | 93.6                    |
| U 4L 5 | 128.2              | 39.13              | 3.28          | 117.9                   |
| L 4U 5 | 153.4              | 29.55              | 5.19          | 186.9                   |
| U 5L 5 | -96.4              | 0.00               | 999.00        | 999.0                   |
| L 5L 6 | 487.0              | 131.95             | 3.69          | 132.9                   |
| U 5U 6 | -357.5             | -137.44            | 2.60          | 93.6                    |
| L 5U 6 | 128.2              | 39.13              | 3.28          | 117.9                   |
| U 5L 6 | 153.4              | 29.55              | 5.19          | 186.9                   |
| U 6L 6 | -84.3              | -28.54             | 2.95          | 106.4                   |
| L 6L 7 | 450.0              | 119.42             | 3.77          | 135.6                   |
| U 6U 7 | -370.3             | -132.13            | 2.80          | 100.9                   |
| L 6U 7 | 140.3              | 45.29              | 3.10          | 111.6                   |
| U 7L 7 | -80.7              | -26.78             | 3.02          | 108.5                   |
| L 7L 8 | 358.6              | 101.49             | 3.53          | 127.2                   |
| U 7U 8 | -352.4             | -120.94            | 2.91          | 104.9                   |
| L 7U 8 | 153.3              | 47.35              | 3.24          | 116.6                   |
| U 8L 8 | -98.4              | -30.74             | 3.20          | 115.2                   |
| L 8L 9 | 263.8              | 70.69              | 3.73          | 134.4                   |
| U 8U 9 | -305.7             | -105.04            | 2.91          | 104.8                   |
| L 8U 9 | 148.4              | 57.08              | 2.60          | 93.6                    |
| U 9L 9 | 124.7              | 50.51              | 2.47          | 88.9                    |
| L 9L10 | 263.8              | 70.69              | 3.73          | 134.4                   |
| U 9L10 | -396.9             | -114.80            | 3.46          | 124.5                   |

## SECTION DATA ( ASD/LFD )

Structure I. D. HAM500

Truss I. D. 1  
 Rating Type: OPER.  
 Rating Live Load: 5C1T

## Member Properties:

| Member | Effective<br>X (ft) | Length<br>Y (ft) | Allowable<br>Ten. | Stress<br>Comp. | Gross<br>Area | Net<br>Area |
|--------|---------------------|------------------|-------------------|-----------------|---------------|-------------|
| L 0L 1 | 25.000              | 25.000           | 24750.0           | 17984.0         | 29.24         | 28.75       |
| L 0U 1 | 37.537              | 37.537           | 24750.0           | 17756.0         | 55.60         | 55.60       |
| U 1L 1 | 28.000              | 28.000           | 24750.0           | 7280.0          | 11.80         | 11.51       |
| U 1U 2 | 25.874              | 25.874           | 24750.0           | 18653.0         | 45.20         | 45.20       |
| L 1L 2 | 25.000              | 25.000           | 24750.0           | 17984.0         | 29.24         | 28.75       |
| U 1L 2 | 37.537              | 37.537           | 24750.0           | 9870.0          | 19.10         | 19.10       |
| U 2L 2 | 34.670              | 34.670           | 24750.0           | 11272.0         | 19.10         | 19.10       |
| U 2U 3 | 25.318              | 25.318           | 24750.0           | 18671.0         | 52.00         | 52.00       |
| L 2L 3 | 25.000              | 25.000           | 24750.0           | 17984.0         | 40.50         | 39.83       |
| U 2L 3 | 42.741              | 42.741           | 24750.0           | 5134.0          | 15.60         | 15.60       |
| U 3L 3 | 38.670              | 19.335           | 24750.0           | 13241.0         | 11.80         | 11.51       |
| U 3U 4 | 25.035              | 25.035           | 24750.0           | 18675.0         | 55.60         | 55.60       |
| L 3L 4 | 25.000              | 25.000           | 24750.0           | 17984.0         | 49.50         | 48.67       |
| U 3L 4 | 46.048              | 23.024           | 24750.0           | 10779.0         | 13.20         | 12.88       |
| U 4L 4 | 40.000              | 20.000           | 24750.0           | 12809.0         | 11.80         | 11.51       |
| L 4L 5 | 25.000              | 25.000           | 24750.0           | 17984.0         | 54.00         | 53.10       |
| U 4U 5 | 25.000              | 25.000           | 24750.0           | 18677.0         | 55.60         | 55.60       |
| U 4L 5 | 47.170              | 23.585           | 24750.0           | 6579.0          | 10.64         | 10.07       |
| L 4U 5 | 47.170              | 23.585           | 24750.0           | 6579.0          | 10.64         | 10.07       |
| U 5L 5 | 40.000              | 20.000           | 24750.0           | 12809.0         | 11.80         | 11.51       |
| L 5L 6 | 25.000              | 25.000           | 24750.0           | 17984.0         | 54.00         | 53.10       |
| U 5U 6 | 25.000              | 25.000           | 24750.0           | 18677.0         | 55.60         | 55.60       |
| L 5U 6 | 47.170              | 23.585           | 24750.0           | 6579.0          | 10.64         | 10.07       |
| U 5L 6 | 47.170              | 23.585           | 24750.0           | 6579.0          | 10.64         | 10.07       |
| U 6L 6 | 40.000              | 20.000           | 24750.0           | 12760.0         | 10.93         | 10.50       |
| L 6L 7 | 25.000              | 25.000           | 24750.0           | 17984.0         | 49.50         | 48.67       |
| U 6U 7 | 25.035              | 25.035           | 24750.0           | 18675.0         | 55.60         | 55.60       |
| L 6U 7 | 46.048              | 23.024           | 24750.0           | 10779.0         | 13.20         | 12.88       |
| U 7L 7 | 38.670              | 19.335           | 24750.0           | 13382.0         | 11.49         | 11.15       |
| L 7L 8 | 25.000              | 25.000           | 24750.0           | 17984.0         | 40.50         | 39.83       |
| U 7U 8 | 25.318              | 25.318           | 24750.0           | 18671.0         | 52.00         | 52.00       |
| L 7U 8 | 42.743              | 42.743           | 24750.0           | 5049.0          | 15.00         | 14.95       |
| U 8L 8 | 34.670              | 34.670           | 24750.0           | 11272.0         | 19.10         | 19.10       |
| L 8L 9 | 25.000              | 25.000           | 24750.0           | 17984.0         | 29.24         | 28.75       |
| U 8U 9 | 25.874              | 25.874           | 24750.0           | 18653.0         | 45.20         | 45.20       |
| L 8U 9 | 37.537              | 37.537           | 24750.0           | 10448.0         | 17.01         | 17.01       |
| U 9L 9 | 28.000              | 28.000           | 24750.0           | 7487.0          | 11.30         | 10.93       |
| L 9L10 | 25.000              | 25.000           | 24750.0           | 17984.0         | 29.24         | 28.75       |
| U 9L10 | 37.537              | 37.537           | 24750.0           | 17756.0         | 55.60         | 55.60       |

## AXIAL CAPACITY REPORT

Structure I. D.

HAM500

Truss I. D.

1

Rating Type:

OPER.

Rating Live Load:

5C1T

| Member | Axial<br>Capacity | TENSION            | Available<br>Capacity | COMPRESSION       | Axial<br>Dead Load | Available<br>Capacity |
|--------|-------------------|--------------------|-----------------------|-------------------|--------------------|-----------------------|
|        |                   | Axial<br>Dead Load |                       | Axial<br>Capacity |                    |                       |
| L 0L 1 | 729.9             | 290.2              | 439.7                 | -584.5            | 0.0                | -874.8                |
| L 0U 1 | 1411.4            | 0.0                | 1847.2                | -1097.3           | -435.8             | -661.5                |
| U 1L 1 | 292.2             | 69.7               | 222.4                 | -95.5             | 0.0                | -165.2                |
| U 1U 2 | 1147.4            | 0.0                | 1575.1                | -937.2            | -427.7             | -509.5                |
| L 1L 2 | 729.9             | 290.2              | 439.7                 | -584.5            | 0.0                | -874.8                |
| U 1L 2 | 484.8             | 184.6              | 300.2                 | -209.6            | 0.0                | -394.2                |
| U 2L 2 | 484.8             | 0.0                | 560.1                 | -239.3            | -75.3              | -164.0                |
| U 2U 3 | 1320.0            | 0.0                | 1811.8                | -1079.2           | -491.8             | -587.4                |
| L 2L 3 | 1010.9            | 413.2              | 597.7                 | -809.6            | 0.0                | -1222.8               |
| U 2L 3 | 396.0             | 123.9              | 272.1                 | -89.0             | 0.0                | -212.9                |
| U 3L 3 | 292.2             | 0.0                | 328.5                 | -173.7            | -36.3              | -137.4                |
| U 3U 4 | 1411.4            | 0.0                | 1948.3                | -1154.2           | -536.9             | -617.2                |
| L 3L 4 | 1235.6            | 485.7              | 749.9                 | -989.5            | 0.0                | -1475.2               |
| U 3L 4 | 327.0             | 93.1               | 233.9                 | -158.1            | 0.0                | -251.2                |
| U 4L 4 | 292.2             | 0.0                | 306.6                 | -168.0            | -14.4              | -153.6                |
| L 4L 5 | 1347.9            | 536.2              | 811.7                 | -1079.4           | 0.0                | -1615.6               |
| U 4U 5 | 1411.4            | 0.0                | 1969.8                | -1154.3           | -558.4             | -595.8                |
| U 4L 5 | 255.7             | 42.0               | 213.7                 | 0.0               | 0.0                | 0.0                   |
| L 4U 5 | 255.7             | 0.0                | 255.7                 | 0.0               | 0.0                | 0.0                   |
| U 5L 5 | 292.2             | -7.4               | 299.5                 | -168.0            | -7.4               | -160.7                |
| L 5L 6 | 1347.9            | 536.2              | 811.7                 | -1079.4           | 0.0                | -1615.6               |
| U 5U 6 | 1411.4            | 0.0                | 1969.8                | -1154.3           | -558.4             | -595.8                |
| L 5U 6 | 255.7             | 42.0               | 213.7                 | 0.0               | 0.0                | 0.0                   |
| U 5L 6 | 255.7             | 0.0                | 255.7                 | 0.0               | 0.0                | 0.0                   |
| U 6L 6 | 266.6             | 0.0                | 281.1                 | -155.0            | -14.4              | -140.5                |
| L 6L 7 | 1235.6            | 485.7              | 749.9                 | -989.5            | 0.0                | -1475.2               |
| U 6U 7 | 1411.4            | 0.0                | 1948.3                | -1154.2           | -536.9             | -617.2                |
| L 6U 7 | 327.0             | 93.1               | 233.9                 | -158.1            | 0.0                | -251.2                |
| U 7L 7 | 283.1             | 0.0                | 319.4                 | -170.9            | -36.3              | -134.6                |
| L 7L 8 | 1010.9            | 413.2              | 597.7                 | -809.6            | 0.0                | -1222.8               |
| U 7U 8 | 1320.0            | 0.0                | 1811.8                | -1079.2           | -491.8             | -587.4                |
| L 7U 8 | 379.4             | 123.9              | 255.5                 | -84.2             | 0.0                | -208.0                |
| U 8L 8 | 484.8             | 0.0                | 560.1                 | -239.3            | -75.3              | -164.0                |
| L 8L 9 | 729.9             | 290.2              | 439.7                 | -584.5            | 0.0                | -874.8                |
| U 8U 9 | 1147.4            | 0.0                | 1575.1                | -937.2            | -427.7             | -509.5                |
| L 8U 9 | 431.9             | 184.6              | 247.3                 | -197.6            | 0.0                | -382.2                |
| U 9L 9 | 277.6             | 69.7               | 207.8                 | -94.0             | 0.0                | -163.8                |
| L 9L10 | 729.9             | 290.2              | 439.7                 | -584.5            | 0.0                | -874.8                |
| U 9L10 | 1411.4            | 0.0                | 1847.2                | -1097.3           | -435.8             | -661.5                |



## RATING REPORT

Structure I. D.

HAM500

Truss I. D.

1

Rating Type:

OPER.

Rating Live Load:

5C1T

|        | Available Capacity | Live Load + Impact | Rating Factor | Load Capacity<br>(tons) |
|--------|--------------------|--------------------|---------------|-------------------------|
| L 0L 1 | 439.7              | 90.19              | 4.88          | 585.0                   |
| L 0U 1 | -661.5             | -135.42            | 4.89          | 586.2                   |
| U 1L 1 | 222.4              | 38.63              | 5.76          | 690.9                   |
| U 1U 2 | -509.5             | -129.13            | 3.95          | 473.5                   |
| L 1L 2 | 439.7              | 90.19              | 4.88          | 585.0                   |
| U 1L 2 | 300.2              | 66.07              | 4.54          | 545.2                   |
| U 2L 2 | -164.0             | -38.86             | 4.22          | 506.5                   |
| U 2U 3 | -587.4             | -144.38            | 4.07          | 488.2                   |
| L 2L 3 | 597.7              | 124.77             | 4.79          | 574.9                   |
| U 2L 3 | 272.1              | 53.64              | 5.07          | 608.8                   |
| U 3L 3 | -137.4             | -33.79             | 4.07          | 487.8                   |
| U 3U 4 | -617.2             | -158.64            | 3.89          | 466.9                   |
| L 3L 4 | 749.9              | 142.57             | 5.26          | 631.2                   |
| U 3L 4 | 233.9              | 50.48              | 4.63          | 556.0                   |
| U 4L 4 | -153.6             | -30.54             | 5.03          | 603.4                   |
| L 4L 5 | 811.7              | 158.42             | 5.12          | 614.9                   |
| U 4U 5 | -595.8             | -164.91            | 3.61          | 433.6                   |
| U 4L 5 | 213.7              | 41.49              | 5.15          | 618.0                   |
| L 4U 5 | 255.7              | 31.26              | 8.18          | 981.5                   |
| U 5L 5 | -160.7             | 0.00               | 999.00        | 999.0                   |
| L 5L 6 | 811.7              | 158.42             | 5.12          | 614.9                   |
| U 5U 6 | -595.8             | -164.91            | 3.61          | 433.6                   |
| L 5U 6 | 213.7              | 41.49              | 5.15          | 618.0                   |
| U 5L 6 | 255.7              | 31.26              | 8.18          | 981.5                   |
| U 6L 6 | -140.5             | -30.54             | 4.60          | 552.1                   |
| L 6L 7 | 749.9              | 142.57             | 5.26          | 631.2                   |
| U 6U 7 | -617.2             | -158.64            | 3.89          | 466.9                   |
| L 6U 7 | 233.9              | 50.48              | 4.63          | 556.0                   |
| U 7L 7 | -134.6             | -33.79             | 3.98          | 477.9                   |
| L 7L 8 | 597.7              | 124.77             | 4.79          | 574.9                   |
| U 7U 8 | -587.4             | -144.38            | 4.07          | 488.2                   |
| L 7U 8 | 255.5              | 53.64              | 4.76          | 571.7                   |
| U 8L 8 | -164.0             | -38.86             | 4.22          | 506.5                   |
| L 8L 9 | 439.7              | 90.19              | 4.88          | 585.0                   |
| U 8U 9 | -509.5             | -129.13            | 3.95          | 473.5                   |
| L 8U 9 | 247.3              | 66.07              | 3.74          | 449.1                   |
| U 9L 9 | 207.8              | 38.63              | 5.38          | 645.6                   |
| L 9L10 | 439.7              | 90.19              | 4.88          | 585.0                   |
| U 9L10 | -661.5             | -135.42            | 4.89          | 586.2                   |