

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 2.5400

Comments:

Truss I. D. 1 Truss Type: THROUGH

Span Length: Span 1
191.333

Number of Panels: 8 Symmetry:

Panel No.	Panel Code	Panel Length	Sub-Divided Panel Length	Vertical Height	Sub-Divided Vertical
1	7	23.917	0.000	28.000	0.000
2	2	23.917	0.000	33.250	0.000
3	2	23.917	0.000	35.000	0.000
4	4	23.917	0.000	35.000	0.000
5	3	23.917	0.000	35.000	0.000
6	1	23.917	0.000	33.250	0.000
7	1	23.917	0.000	28.000	0.000
8	5	23.917	0.000	0.000	0.000

Superimposed Dead Load:

Uniform Dead Load
 (kips/ft)
 Loaded Chord Unloaded Chord
 0.355 0.000

Superimposed Dead Load:

Loaded Chord Dist.	Loaded Chord Load	Unloaded Chord Dist.	Unloaded Chord Load
0.000	28.160	0.000	0.000
23.917	62.790	0.000	0.000
47.833	52.440	0.000	0.000
71.750	54.970	0.000	0.000
95.667	53.790	0.000	0.000

119.583	54.970	0.000	0.000
143.500	52.440	0.000	0.000
167.417	62.790	0.000	0.000

Truss Members Selected:

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
L 3L 4
U 3U 4
U 3L 4
L 3U 4
U 4L 4
L 4L 5
U 4U 5
L 4U 5
U 4L 5
U 5L 5
L 5L 6
U 5U 6
L 5U 6
U 6L 6
L 6L 7
U 6U 7
L 6U 7
U 7L 7
L 7L 8
U 7L 8

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
 Truss Member I. D. L 0L 1

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14057.	17530.	17530.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
22.50	421.86	743.54	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

	INV.	OPER	POST	SPEC
	HS20	2F1		
Truss I. D.		3F1		
Truss Member I. D.		4F1		
		5C1		
		HS20		

Axial Dead Load
 Tension Compression
 210.6 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	342.7 263.0	216.3 389.4
OPER	571.2 438.4	360.5 649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	74.73 R	64.53	51.92	87.09	75.20	23.92
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	32.32 R	27.91	33.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	49.01 R	42.32	37.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	56.84 R	49.08	41.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	75.21 R	64.95	74.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	74.73 R	64.53	51.92	87.09	75.20	23.92
		0.00 R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.48	HS 49.68	89.4
2F1	11.15	0.00	167.3
3F1	7.36	0.00	169.2
4F1	6.34	0.00	171.3
5C1	4.79	0.00	191.7
HS20	4.14	HS 82.79	149.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 0U 1

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14277.	17804.	17804.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.823	36.823	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 0U 1		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 324.3

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	627.7 489.3	822.3 294.7
OPER	1046.1 815.6	1370.4 491.2

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	0.00 R	0.00		0.00	0.00	0.00		0.00
		-115.06 R	-99.36		51.92	-147.63	-127.48		23.92
OPER	2F1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-49.76 R	-42.97		33.92	0.00	0.00		0.00
OPER	3F1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-75.47 R	-65.17		37.92	0.00	0.00		0.00
OPER	4F1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-87.51 R	-75.57		41.92	0.00	0.00		0.00
OPER	5C1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-115.80 R	-100.00		74.92	0.00	0.00		0.00
OPER	HS20	0.00 R	0.00		0.00	0.00	0.00		0.00
		-115.06 R	-99.36		51.92	-147.63	-127.48		23.92

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.93	71.9
2F1	9.87	0.00	148.1
3F1	6.51	0.00	149.7
4F1	5.61	0.00	151.6
5C1	4.24	0.00	169.7
HS20	3.33	HS 66.55	119.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 1L 1

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5837.	7280.	7280.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
28.000	28.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
11.94	11.80	310.00	44.10	0.00	5.13	1.93

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
11.80	310.00	44.10	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	0.000	23.917	47.833	191.333	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	191.333	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 1L 1		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 71.3 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	179.7 57.3	137.0 100.1
OPER	299.5 95.5	228.3 166.8

Live Load Effect

Impact Factors: ten - .289 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	79.55 R	61.70	37.92	67.64	52.46	23.92
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	42.28 R	32.79	33.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.45 R	48.44	33.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.25 L	53.71	9.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	60.81 R	47.16	35.92	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.55 R	61.70	37.92	67.64	52.46	23.92
		0.00 R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.72	HS 34.43	62.0
2F1	5.40	0.00	81.0
3F1	3.65	0.00	84.1
4F1	3.30	0.00	89.0
5C1	3.75	0.00	150.2
HS20	2.87	HS 57.39	103.3

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 1U 2

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	15011.	18720.	18720.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
24.486	24.486	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.75	34.10	2388.22	1822.35	21.05	8.37	7.31

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
34.10	2388.22	1822.35	21.05

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D. HAM500

			INV.	OPER	POST	SPEC
			HS20	2F1		
Truss I. D.		1		3F1		
Truss Member I. D.	U 1U	2		4F1		
				5C1		
				HS20		

Axial Dead Load
Tension Compression

0.0 306.6

Veh.	Axial Tension	Load Capacity Compression	Available Tension	Capacity for LL+I Compression
INV.	519.4	425.7	703.3	241.8
OPER	865.6	709.5	1172.2	403.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	0.00 R	0.00		0.00	0.00	0.00		0.00
		-109.37 R	-94.44		75.83	-128.71	-111.15		47.83
OPER	2F1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-47.61 R	-41.11		57.83	0.00	0.00		0.00
OPER	3F1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-72.06 R	-62.23		61.83	0.00	0.00		0.00
OPER	4F1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-83.38 R	-72.00		65.83	0.00	0.00		0.00
OPER	5C1	0.00 R	0.00		0.00	0.00	0.00		0.00
		-110.07 L	-95.04		35.83	0.00	0.00		0.00
OPER	HS20	0.00 R	0.00		0.00	0.00	0.00		0.00
		-109.37 R	-94.44		75.83	-128.71	-111.15		47.83

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.88	HS 37.57	67.6
2F1	8.47	0.00	127.0
3F1	5.59	0.00	128.6
4F1	4.83	0.00	130.5
5C1	3.66	0.00	146.4
HS20	3.13	HS 62.62	112.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 1L 2

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14057.	17530.	17530.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
22.50	421.86	743.54	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 1L 2		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 210.6 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	342.7 263.0	216.3 389.4
OPER	571.2 438.4	360.5 649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Loc. of Conc. Load
INV.	HS20	74.73 R 0.00 R	64.53 0.00	51.92 0.00	23.92 0.00
OPER	2F1	32.32 R 0.00 R	27.91 0.00	33.92 0.00	0.00 0.00
OPER	3F1	49.01 R 0.00 R	42.32 0.00	37.92 0.00	0.00 0.00
OPER	4F1	56.84 R 0.00 R	49.08 0.00	41.92 0.00	0.00 0.00
OPER	5C1	75.21 R 0.00 R	64.95 0.00	74.92 0.00	0.00 0.00
OPER	HS20	74.73 R 0.00 R	64.53 0.00	51.92 0.00	23.92 0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.48	HS 49.68	89.4
2F1	11.15	0.00	167.3
3F1	7.36	0.00	169.2
4F1	6.34	0.00	171.3
5C1	4.79	0.00	191.7
HS20	4.14	HS 82.79	149.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 1L 2

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5684.	7088.	7088.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.824	36.824	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.19	17.00	475.00	107.00	0.00	5.29	2.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
17.00	475.00	107.00	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	47.833	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.320	0.675	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	47.833	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.320	0.675	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 1L 2		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 136.7 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	258.9 80.4	176.9 162.4
OPER	431.5 133.9	294.8 270.6

Live Load Effect

Impact Factors: ten - .176 comp - .300

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	67.83 R	57.70	75.83	77.70	66.09	47.83
		-23.93 L	-18.40	-4.08	-19.09	-14.68	23.92
OPER	2F1	29.53 R	25.12	57.83	0.00	0.00	0.00
		-13.65 L	-10.50	13.92	0.00	0.00	0.00
OPER	3F1	44.69 R	38.02	61.83	0.00	0.00	0.00
		-19.10 L	-14.69	9.92	0.00	0.00	0.00
OPER	4F1	51.71 R	43.99	65.83	0.00	0.00	0.00
		-20.06 L	-15.43	5.92	0.00	0.00	0.00
OPER	5C1	67.00 R	56.99	98.83	0.00	0.00	0.00
		-16.47 L	-12.67	-27.08	0.00	0.00	0.00
OPER	HS20	67.83 R	57.70	75.83	77.70	66.09	47.83
		-23.93 L	-18.40	-4.08	-19.09	-14.68	23.92

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.28	HS 45.54	82.0
2F1	9.99	0.00	149.8
3F1	6.60	0.00	151.7
4F1	5.70	0.00	153.9
5C1	4.40	0.00	176.0
HS20	3.80	HS 75.89	136.6

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 2L 2

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9563.	11925.	11925.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
33.250	33.250	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.12	19.10	533.00	174.00	0.00	5.28	3.02

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
19.10	533.00	174.00	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.487	-0.428	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	47.833	191.333	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.243	-0.513	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 2L 2		4F1		
			5C1		
			HS20		
Axial Dead Load					
Tension	Compression				
0.0	43.0				

Veh.	Axial Load Capacity Tension	Compression	Available Capacity for LL+I Tension	Compression
INV.	290.9	151.9	316.7	126.1
OPER	484.8	253.2	527.9	210.2

Live Load Effect

Impact Factors: ten - .269 comp - .195

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	45.49 L	35.83	19.83	35.62	28.06	47.83		
		-43.10 R	-36.05	99.75	-44.05	-36.85	71.75		
OPER	2F1	21.91 L	17.26	37.83	0.00	0.00	0.00		
		-18.93 R	-15.84	81.75	0.00	0.00	0.00		
OPER	3F1	32.23 L	25.39	33.83	0.00	0.00	0.00		
		-28.58 R	-23.91	85.75	0.00	0.00	0.00		
OPER	4F1	36.08 L	28.42	29.83	0.00	0.00	0.00		
		-32.98 R	-27.58	89.75	0.00	0.00	0.00		
OPER	5C1	32.16 R	25.33	59.83	0.00	0.00	0.00		
		-41.42 R	-34.65	122.75	0.00	0.00	0.00		
OPER	HS20	45.49 L	35.83	19.83	35.62	28.06	47.83		
		-43.10 R	-36.05	99.75	-44.05	-36.85	71.75		

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.86	HS 57.25	103.1
2F1	11.10	0.00	166.5
3F1	7.35	0.00	169.1
4F1	6.37	0.00	172.1
5C1	5.07	0.00	203.0
HS20	4.77	HS 95.42	171.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 2U 3

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	15016.	18726.	18726.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.981	23.981	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.84	38.03	2805.75	1967.05	20.02	8.59	7.19

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
38.03	2805.75	1967.05	20.02

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

	INV.	OPER	POST	SPEC
	HS20	2F1		
Truss I. D.		3F1		
Truss Member I. D.		4F1		
		5C1		
		HS20		

Axial Dead Load
 Tension Compression
 0.0 355.8

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	579.2 474.9	792.7 261.4
OPER	965.4 791.6	1321.2 435.7

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00 R 0.00	0.00	0.00 0.00	0.00
		-126.01 L -108.81	57.75	-149.69 -129.26	71.75
OPER	2F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-55.10 R -47.58	81.75	0.00 0.00	0.00
OPER	3F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-83.23 R -71.87	81.75	0.00 0.00	0.00
OPER	4F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-97.01 R -83.77	85.75	0.00 0.00	0.00
OPER	5C1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-126.58 L -109.30	55.75	0.00 0.00	0.00
OPER	HS20	0.00 R 0.00	0.00	0.00 0.00	0.00
		-126.01 L -108.81	57.75	-149.69 -129.26	71.75

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.75	HS 34.93	62.9
2F1	7.91	0.00	118.6
3F1	5.24	0.00	120.4
4F1	4.49	0.00	121.3
5C1	3.44	0.00	137.7
HS20	2.91	HS 58.22	104.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 2L 3

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14058.	17531.	17531.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	31.86	597.64	999.10	7.50	4.33	5.60

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
31.86	597.64	999.10	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 2L 3		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 299.4 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	485.3 372.5	305.6 552.2
OPER	808.8 620.8	509.3 920.3

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	106.82 R 92.24	75.83	125.72 108.56	47.83
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	2F1	46.50 R 40.15	57.83	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	3F1	70.39 R 60.78	61.83	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	4F1	81.44 R 70.33	65.83	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	5C1	107.51 L 92.83	35.83	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	HS20	106.82 R 92.24	75.83	125.72 108.56	47.83
		0.00 R 0.00	0.00	0.00 0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.43	HS 48.62	87.5
2F1	10.95	0.00	164.3
3F1	7.24	0.00	166.4
4F1	6.25	0.00	168.9
5C1	4.74	0.00	189.5
HS20	4.05	HS 81.03	145.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 2L 3

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	4483.	5590.	5590.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.958	40.958	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.06	15.60	425.00	95.80	0.00	5.22	2.48

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
15.60	425.00	95.80	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.385	0.654	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.385	0.654	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D. HAM500

			INV.	OPER	POST	SPEC
			HS20	2F1		
Truss I. D.		1		3F1		
Truss Member I. D.	U 2L	3		4F1		
				5C1		
				HS20		

Axial Dead Load
 Tension Compression
 95.0 0.0

Veh.	Axial Load Capacity Tension	Compression	Available Capacity for LL+I Tension	Compression
INV.	237.6	58.2	180.6	115.2
OPER	396.0	96.9	301.0	191.9

Live Load Effect

Impact Factors: ten - .193 comp - .275

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	65.79 R	55.17	99.75	68.47	57.42	71.75
		-36.13 L	-28.33	19.83	-27.52	-21.58	47.83
OPER	2F1	28.91 R	24.24	81.75	0.00	0.00	0.00
		-17.40 L	-13.64	37.83	0.00	0.00	0.00
OPER	3F1	43.64 R	36.59	85.75	0.00	0.00	0.00
		-25.60 L	-20.08	33.83	0.00	0.00	0.00
OPER	4F1	50.34 R	42.21	89.75	0.00	0.00	0.00
		-28.66 L	-22.47	29.83	0.00	0.00	0.00
OPER	5C1	63.23 R	53.02	122.75	0.00	0.00	0.00
		-25.11 L	-19.69	-3.17	0.00	0.00	0.00
OPER	HS20	65.79 R	55.17	99.75	68.47	57.42	71.75
		-36.13 L	-28.33	19.83	-27.52	-21.58	47.83

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.64	HS 52.75	95.0
2F1	10.41	0.00	156.2
3F1	6.90	0.00	158.7
4F1	5.98	0.00	161.4
5C1	4.76	0.00	190.4
HS20	4.40	HS 87.92	158.3

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 3L 3

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9330.	11635.	11635.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
35.000	17.500	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.469	-0.425	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.312	-0.531	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 3L 3		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 13.7

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	159.8 81.4	168.0 73.2
OPER	266.3 135.7	280.0 122.0

Live Load Effect

Impact Factors: ten - .239 comp - .215

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	46.19 L 37.29	43.75	39.07 31.54	71.75
		-42.63 R -35.07	123.67	-39.53 -32.52	95.67
OPER	2F1	21.10 L 17.03	61.75	0.00 0.00	0.00
		-19.00 R -15.63	105.67	0.00 0.00	0.00
OPER	3F1	31.50 L 25.43	57.75	0.00 0.00	0.00
		-28.56 R -23.50	109.67	0.00 0.00	0.00
OPER	4F1	35.88 L 28.96	53.75	0.00 0.00	0.00
		-32.79 R -26.98	113.67	0.00 0.00	0.00
OPER	5C1	39.08 L 31.55	20.75	0.00 0.00	0.00
		-39.19 R -32.25	146.67	0.00 0.00	0.00
OPER	HS20	46.19 L 37.29	43.75	39.07 31.54	71.75
		-42.63 R -35.07	123.67	-39.53 -32.52	95.67

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.72	HS 34.35	61.8
2F1	6.42	0.00	96.4
3F1	4.27	0.00	98.3
4F1	3.72	0.00	100.5
5C1	3.11	0.00	124.5
HS20	2.86	HS 57.26	103.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 3L 4

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14057.	17530.	17530.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	37.50	703.12	1139.26	7.50	4.33	5.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
37.50	703.12	1139.26	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

	INV.	OPER	POST	SPEC
	HS20	2F1		
Truss I. D.		3F1		
Truss Member I. D.		4F1		
		5C1		
		HS20		

Axial Dead Load
 Tension Compression
 354.9 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	571.2 438.4	358.2 651.4
OPER	951.9 730.7	597.0 1085.6

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	125.67 L	108.52		57.75	149.29	128.92		71.75
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	2F1	54.96 R	47.45		81.75	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	3F1	83.00 R	71.68		81.75	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	4F1	96.76 R	83.55		85.75	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	5C1	126.24 L	109.01		55.75	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	HS20	125.67 L	108.52		57.75	149.29	128.92		71.75
		0.00 R	0.00		0.00	0.00	0.00		0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.40	HS 47.99	86.4
2F1	10.86	0.00	163.0
3F1	7.19	0.00	165.4
4F1	6.17	0.00	166.6
5C1	4.73	0.00	189.2
HS20	4.00	HS 79.98	144.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 3U 4

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	15022.	18734.	18734.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 3U 4		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 378.1

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	627.7 514.9	854.5 288.0
OPER	1046.1 858.1	1424.2 480.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00 R 0.00	0.00	0.00 0.00	0.00
		-132.95 R -114.81	109.67	-159.25 -137.51	95.67
OPER	2F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-58.20 L -50.26	85.67	0.00 0.00	0.00
OPER	3F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-88.51 R -76.43	105.67	0.00 0.00	0.00
OPER	4F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-102.66 L -88.65	81.67	0.00 0.00	0.00
OPER	5C1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-131.76 R -113.78	111.67	0.00 0.00	0.00
OPER	HS20	0.00 R 0.00	0.00	0.00 0.00	0.00
		-132.95 R -114.81	109.67	-159.25 -137.51	95.67

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.81	HS 36.17	65.1
2F1	8.25	0.00	123.7
3F1	5.42	0.00	124.7
4F1	4.68	0.00	126.2
5C1	3.64	0.00	145.7
HS20	3.01	HS 60.29	108.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 3L 4

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	6622.	8258.	8258.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.454	0.606	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.454	0.606	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 3L 4		4F1		
			5C1		
			HS20		

Axial Dead Load
Tension Compression

41.1 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	159.8 0.0	135.1 0.0
OPER	266.3 0.0	225.2 0.0

Live Load Effect

Impact Factors: ten - .213 comp - .000

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	60.64 R	49.97		123.67	56.91	46.90		95.67
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	2F1	27.02 R	22.27		105.67	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	3F1	40.62 R	33.48		109.67	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	4F1	46.65 R	38.44		113.67	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	5C1	55.75 R	45.95		146.67	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	HS20	60.64 R	49.97		123.67	56.91	46.90		95.67
		0.00 R	0.00		0.00	0.00	0.00		0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.23	HS 44.57	80.2
2F1	8.33	0.00	125.0
3F1	5.54	0.00	127.5
4F1	4.83	0.00	130.3
5C1	4.04	0.00	161.6
HS20	3.71	HS 74.28	133.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 3U 4

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	6622.	8258.	8258.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.454	-0.606	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.454	-0.606	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 3U 4		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	159.8 0.0	159.8 0.0
OPER	266.3 0.0	266.3 0.0

Live Load Effect

Impact Factors: ten - .242 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Loc. of Conc. Load
INV.	HS20	44.86 L 0.00 R	36.13 0.00	43.75 0.00	71.75 0.00
OPER	2F1	20.49 L 0.00 R	16.50 0.00	61.75 0.00	0.00 0.00
OPER	3F1	30.59 L 0.00 R	24.64 0.00	57.75 0.00	0.00 0.00
OPER	4F1	34.84 L 0.00 R	28.06 0.00	53.75 0.00	0.00 0.00
OPER	5C1	37.95 L 0.00 R	30.57 0.00	20.75 0.00	0.00 0.00
OPER	HS20	44.86 L 0.00 R	36.13 0.00	43.75 0.00	71.75 0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	3.56	HS 71.25	128.3
2F1	13.00	0.00	195.0
3F1	8.71	0.00	200.3
4F1	7.64	0.00	206.4
5C1	7.02	0.00	280.7
HS20	5.94	HS118.75	213.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 4L 4

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9330.	11635.	11635.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
35.000	17.500	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	191.333	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	1148.002	1435.002	2296.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.000	-1.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 4L 4		4F1		
			5C1		
			HS20		
Axial Dead Load					
Tension	Compression				
-5.7	5.7				

Veh.	Axial Tension	Load Capacity Compression	Available Tension	Capacity for LL+I Compression
INV.	159.8	81.4	163.2	78.0
OPER	266.3	135.7	272.0	130.0

Live Load Effect

Impact Factors: ten - .213 comp - .242

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	50.06 R	41.26	123.67	46.99	38.73	95.67		
		-37.03 L	-29.83	43.75	-30.89	-24.88	71.75		
OPER	2F1	42.28 R	32.79	105.67	0.00	0.00	0.00		
		0.00 R	0.00	0.00	0.00	0.00	0.00		
OPER	3F1	62.45 R	48.44	105.67	0.00	0.00	0.00		
		0.00 R	0.00	0.00	0.00	0.00	0.00		
OPER	4F1	69.25 L	53.71	81.67	0.00	0.00	0.00		
		0.00 R	0.00	0.00	0.00	0.00	0.00		
OPER	5C1	60.81 L	47.16	83.67	0.00	0.00	0.00		
		0.00 R	0.00	0.00	0.00	0.00	0.00		
OPER	HS20	50.06 R	41.26	123.67	46.99	38.73	95.67		
		-37.03 L	-29.83	43.75	-30.89	-24.88	71.75		

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.11	HS 42.13	75.8
2F1	999.00	999.00	999.0
3F1	999.00	999.00	999.0
4F1	999.00	999.00	999.0
5C1	999.00	999.00	999.0
HS20	3.51	HS 70.22	126.4

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 4L 5

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14057.	17530.	17530.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	37.50	703.12	1139.26	7.50	4.33	5.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
37.50	703.12	1139.26	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 4L 5		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 354.9 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	571.2 438.4	358.2 651.4
OPER	951.9 730.7	597.0 1085.6

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	125.67 R	108.52		133.58	149.29	128.92		119.58
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	2F1	54.96 L	47.45		109.58	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	3F1	83.00 L	71.68		109.58	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	4F1	96.76 L	83.55		105.58	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	5C1	126.24 R	109.01		135.58	0.00	0.00		0.00
		0.00 R	0.00		0.00	0.00	0.00		0.00
OPER	HS20	125.67 R	108.52		133.58	149.29	128.92		119.58
		0.00 R	0.00		0.00	0.00	0.00		0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.40	HS 47.99	86.4
2F1	10.86	0.00	163.0
3F1	7.19	0.00	165.4
4F1	6.17	0.00	166.6
5C1	4.73	0.00	189.2
HS20	4.00	HS 79.98	144.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 4U 5

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14928.	18616.	18616.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	25.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 4U 5		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 378.1

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	627.7 511.6	854.5 284.8
OPER	1046.1 852.7	1424.2 474.6

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00
		-132.95 R	-114.81	109.67	-159.25	-137.51	95.67
OPER	2F1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-58.20 L	-50.26	85.67	0.00	0.00	0.00
OPER	3F1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-88.51 R	-76.43	105.67	0.00	0.00	0.00
OPER	4F1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-102.66 L	-88.65	81.67	0.00	0.00	0.00
OPER	5C1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-131.76 R	-113.78	111.67	0.00	0.00	0.00
OPER	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00
		-132.95 R	-114.81	109.67	-159.25	-137.51	95.67

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.79	HS 35.76	64.4
2F1	8.15	0.00	122.3
3F1	5.36	0.00	123.3
4F1	4.62	0.00	124.8
5C1	3.60	0.00	144.1
HS20	2.98	HS 59.61	107.3

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 4U 5

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	6622.	8258.	8258.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.606	-0.454	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.606	-0.454	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 4U 5		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 41.1 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	159.8 0.0	135.1 0.0
OPER	266.3 0.0	225.2 0.0

Live Load Effect

Impact Factors: ten - .213 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	60.64 L 49.97	67.67	56.91 46.90	95.67
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	2F1	27.02 L 22.27	85.67	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	3F1	40.63 L 33.48	81.67	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	4F1	46.65 L 38.44	77.67	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	5C1	55.75 L 45.95	44.67	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	HS20	60.64 L 49.97	67.67	56.91 46.90	95.67
		0.00 R 0.00	0.00	0.00 0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.23	HS 44.57	80.2
2F1	8.33	0.00	125.0
3F1	5.54	0.00	127.5
4F1	4.83	0.00	130.3
5C1	4.04	0.00	161.6
HS20	3.71	HS 74.28	133.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 4L 5

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	6622.	8258.	8258.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.606	0.454	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-0.606	0.454	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 4L 5		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	159.8 0.0	159.8 0.0
OPER	266.3 0.0	266.3 0.0

Live Load Effect

Impact Factors: ten - .242 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Loc. of Conc. Load
INV.	HS20	44.86 R	36.13	147.58	37.41
		0.00 R	0.00	0.00	0.00
OPER	2F1	20.49 R	16.50	129.58	0.00
		0.00 R	0.00	0.00	0.00
OPER	3F1	30.59 R	24.64	133.58	0.00
		0.00 R	0.00	0.00	0.00
OPER	4F1	34.84 R	28.06	137.58	0.00
		0.00 R	0.00	0.00	0.00
OPER	5C1	37.95 R	30.57	170.58	0.00
		0.00 R	0.00	0.00	0.00
OPER	HS20	44.86 R	36.13	147.58	37.41
		0.00 R	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	3.56	HS 71.25	128.3
2F1	13.00	0.00	195.0
3F1	8.71	0.00	200.3
4F1	7.64	0.00	206.4
5C1	7.02	0.00	280.7
HS20	5.94	HS118.75	213.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 5L 5

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9330.	11635.	11635.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
35.000	17.500	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.49	278.14	25.49	6.12

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.425	0.469	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.531	0.312	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 5L 5		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 13.7

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	159.8 81.4	168.0 73.2
OPER	266.3 135.7	280.0 122.0

Live Load Effect

Impact Factors: ten - .239 comp - .215

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	46.19 R	37.29	147.58	39.07	31.54	119.58
		-42.63 L	-35.07	67.67	-39.53	-32.52	95.67
OPER	2F1	21.10 R	17.03	129.58	0.00	0.00	0.00
		-19.00 L	-15.63	85.67	0.00	0.00	0.00
OPER	3F1	31.50 R	25.43	133.58	0.00	0.00	0.00
		-28.56 L	-23.50	81.67	0.00	0.00	0.00
OPER	4F1	35.88 R	28.96	137.58	0.00	0.00	0.00
		-32.79 L	-26.98	77.67	0.00	0.00	0.00
OPER	5C1	39.08 R	31.55	170.58	0.00	0.00	0.00
		-39.19 L	-32.25	44.67	0.00	0.00	0.00
OPER	HS20	46.19 R	37.29	147.58	39.07	31.54	119.58
		-42.63 L	-35.07	67.67	-39.53	-32.52	95.67

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.72	HS 34.35	61.8
2F1	6.42	0.00	96.4
3F1	4.27	0.00	98.3
4F1	3.72	0.00	100.5
5C1	3.11	0.00	124.5
HS20	2.86	HS 57.26	103.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 5L 6

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14058.	17531.	17531.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	31.86	597.64	999.10	7.50	4.33	5.60

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
31.86	597.64	999.10	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 5L 6		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 299.4 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	485.3 372.5	305.6 552.2
OPER	808.8 620.8	509.3 920.3

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	106.82 L 92.24	115.50	125.72 108.56	143.50
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	2F1	46.50 L 40.15	133.50	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	3F1	70.39 L 60.78	129.50	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	4F1	81.44 L 70.33	125.50	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	5C1	107.51 R 92.83	155.50	0.00 0.00	0.00
		0.00 R 0.00	0.00	0.00 0.00	0.00
OPER	HS20	106.82 L 92.24	115.50	125.72 108.56	143.50
		0.00 R 0.00	0.00	0.00 0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.43	HS 48.62	87.5
2F1	10.95	0.00	164.3
3F1	7.24	0.00	166.4
4F1	6.25	0.00	168.9
5C1	4.74	0.00	189.5
HS20	4.05	HS 81.03	145.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 5U 6

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	15016.	18726.	18726.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.981	23.981	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.84	38.03	2805.75	1967.05	20.02	8.59	7.19

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
38.03	2805.75	1967.05	20.02

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 5U 6		4F1		
			5C1		
			HS20		

Axial Dead Load
Tension Compression

0.0 355.8

Veh.	Axial Tension	Load Capacity Compression	Available Tension	Capacity for LL+I Compression
INV.	579.2	474.9	792.7	261.4
OPER	965.4	791.6	1321.2	435.7

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-126.01 R	-108.81	133.58	-149.69	-129.26	119.58		
OPER	2F1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-55.10 L	-47.58	109.58	0.00	0.00	0.00	0.00	0.00
OPER	3F1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-83.23 L	-71.87	109.58	0.00	0.00	0.00	0.00	0.00
OPER	4F1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-97.01 L	-83.77	105.58	0.00	0.00	0.00	0.00	0.00
OPER	5C1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-126.58 R	-109.30	135.58	0.00	0.00	0.00	0.00	0.00
OPER	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-126.01 R	-108.81	133.58	-149.69	-129.26	119.58		

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.75	HS 34.93	62.9
2F1	7.91	0.00	118.6
3F1	5.24	0.00	120.4
4F1	4.49	0.00	121.3
5C1	3.44	0.00	137.7
HS20	2.91	HS 58.22	104.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 5U 6

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	4483.	5590.	5590.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.958	40.958	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.06	15.60	425.00	95.80	0.00	5.22	2.48

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
15.60	425.00	95.80	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.654	-0.385	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.654	-0.385	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

Truss I. D. 1
 Truss Member I. D. L 5U 6

INV. OPER POST SPEC
 HS20 2F1
 3F1
 4F1
 5C1
 HS20

Axial Dead Load
 Tension Compression

95.0 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	237.6 58.2	180.6 115.2
OPER	396.0 96.9	301.0 191.9

Live Load Effect

Impact Factors: ten - .193 comp - .275

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load	
INV.	HS20	65.79 L 55.17 -36.13 R -28.33	91.58 171.50	68.47 -27.52	57.42 -21.58	119.58 143.50
OPER	2F1	28.91 L 24.24 -17.40 R -13.64	109.58 153.50	0.00 0.00	0.00 0.00	0.00 0.00
OPER	3F1	43.64 L 36.59 -25.60 R -20.08	105.58 157.50	0.00 0.00	0.00 0.00	0.00 0.00
OPER	4F1	50.34 L 42.21 -28.66 R -22.47	101.58 161.50	0.00 0.00	0.00 0.00	0.00 0.00
OPER	5C1	63.23 L 53.02 -25.11 R -19.69	68.58 194.50	0.00 0.00	0.00 0.00	0.00 0.00
OPER	HS20	65.79 L 55.17 -36.13 R -28.33	91.58 171.50	68.47 -27.52	57.42 -21.58	119.58 143.50

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.64	HS 52.75	95.0
2F1	10.41	0.00	156.2
3F1	6.90	0.00	158.7
4F1	5.98	0.00	161.4
5C1	4.76	0.00	190.4
HS20	4.40	HS 87.92	158.3

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 6L 6

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9563.	11925.	11925.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
33.250	33.250	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.12	19.10	533.00	174.00	0.00	5.28	3.02

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
19.10	533.00	174.00	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.428	0.487	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	167.417	191.333	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.513	0.243	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 6L 6		4F1		
			5C1		
			HS20		

Axial Dead Load
Tension Compression

0.0 43.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	290.9 151.9	316.7 126.1
OPER	484.8 253.2	527.9 210.2

Live Load Effect

Impact Factors: ten - .269 comp - .195

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	45.48 R	35.83	171.50	29.34	23.11	143.50
		-43.10 L	-36.05	91.58	-38.86	-32.50	119.58
OPER	2F1	21.91 R	17.26	153.50	0.00	0.00	0.00
		-18.93 L	-15.84	109.58	0.00	0.00	0.00
OPER	3F1	32.23 R	25.39	157.50	0.00	0.00	0.00
		-28.58 L	-23.91	105.58	0.00	0.00	0.00
OPER	4F1	36.08 R	28.42	161.50	0.00	0.00	0.00
		-32.98 L	-27.58	101.58	0.00	0.00	0.00
OPER	5C1	32.16 L	25.33	131.50	0.00	0.00	0.00
		-41.42 L	-34.65	68.58	0.00	0.00	0.00
OPER	HS20	45.48 R	35.83	171.50	29.34	23.11	143.50
		-43.10 L	-36.05	91.58	-38.86	-32.50	119.58

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.93	HS 58.52	105.3
2F1	11.10	0.00	166.5
3F1	7.35	0.00	169.1
4F1	6.37	0.00	172.1
5C1	5.07	0.00	203.0
HS20	4.88	HS 97.53	175.6

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 6L 7

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14057.	17530.	17530.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
22.50	421.86	743.54	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 6L 7		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 210.6 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	342.7 263.0	216.3 389.4
OPER	571.2 438.4	360.5 649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Loc. of Conc. Load
INV.	HS20	74.73 L 0.00 R	64.53 0.00	139.42 0.00	87.09 0.00
OPER	2F1	32.32 L 0.00 R	27.91 0.00	157.42 0.00	75.20 0.00
OPER	3F1	49.01 L 0.00 R	42.32 0.00	153.42 0.00	75.20 0.00
OPER	4F1	56.84 L 0.00 R	49.08 0.00	149.42 0.00	75.20 0.00
OPER	5C1	75.21 L 0.00 R	64.95 0.00	116.42 0.00	75.20 0.00
OPER	HS20	74.73 L 0.00 R	64.53 0.00	139.42 0.00	75.20 0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.48	HS 49.68	89.4
2F1	11.15	0.00	167.3
3F1	7.36	0.00	169.2
4F1	6.34	0.00	171.3
5C1	4.79	0.00	191.7
HS20	4.14	HS 82.79	149.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 6U 7

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	15011.	18720.	18720.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
24.486	24.486	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.75	34.10	2388.22	1822.35	21.05	8.37	7.31

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
34.10	2388.22	1822.35	21.05

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 6U 7		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 306.6

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	519.4 425.7	703.3 241.8
OPER	865.6 709.5	1172.2 403.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00 R 0.00	0.00	0.00 0.00	0.00
		-109.37 L -94.44	115.50	-128.71 -111.15	143.50
OPER	2F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-47.61 L -41.11	133.50	0.00 0.00	0.00
OPER	3F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-72.06 L -62.23	129.50	0.00 0.00	0.00
OPER	4F1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-83.38 L -72.00	125.50	0.00 0.00	0.00
OPER	5C1	0.00 R 0.00	0.00	0.00 0.00	0.00
		-110.07 R -95.04	155.50	0.00 0.00	0.00
OPER	HS20	0.00 R 0.00	0.00	0.00 0.00	0.00
		-109.37 L -94.44	115.50	-128.71 -111.15	143.50

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.88	HS 37.57	67.6
2F1	8.47	0.00	127.0
3F1	5.59	0.00	128.6
4F1	4.83	0.00	130.5
5C1	3.66	0.00	146.5
HS20	3.13	HS 62.62	112.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 6U 7

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5684.	7088.	7088.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.824	36.824	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.19	17.00	475.00	107.00	0.00	5.29	2.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
17.00	475.00	107.00	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	167.417	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.675	-0.320	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	167.417	191.333	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	0.675	-0.320	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 6U 7		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 136.7 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	258.9 80.4	176.9 162.4
OPER	431.5 133.9	294.8 270.6

Live Load Effect

Impact Factors: ten - .176 comp - .300

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp. w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp. w/o imp.	Loc. of Conc. Load
INV.	HS20	67.83 L 57.70	115.50	77.70 66.09	143.50
		-23.93 R -18.40	195.42	-19.09 -14.68	167.42
OPER	2F1	29.53 L 25.12	133.50	0.00 0.00	0.00
		-13.65 R -10.50	177.42	0.00 0.00	0.00
OPER	3F1	44.69 L 38.02	129.50	0.00 0.00	0.00
		-19.10 R -14.69	181.42	0.00 0.00	0.00
OPER	4F1	51.71 L 43.99	125.50	0.00 0.00	0.00
		-20.05 R -15.43	185.42	0.00 0.00	0.00
OPER	5C1	67.00 L 56.99	92.50	0.00 0.00	0.00
		-16.47 R -12.67	218.42	0.00 0.00	0.00
OPER	HS20	67.83 L 57.70	115.50	77.70 66.09	143.50
		-23.93 R -18.40	195.42	-19.09 -14.68	167.42

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.28	HS 45.54	82.0
2F1	9.99	0.00	149.8
3F1	6.60	0.00	151.7
4F1	5.70	0.00	153.9
5C1	4.40	0.00	176.0
HS20	3.80	HS 75.89	136.6

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 7L 7

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5837.	7280.	7280.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
28.000	28.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
11.94	11.80	310.00	44.10	0.00	5.13	1.93

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
11.80	310.00	44.10	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	167.417	191.334	191.333	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	191.333	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 7L 7		4F1		
			5C1		
			HS20		

Axial Dead Load
Tension Compression

71.3 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	179.7 57.3	137.0 100.1
OPER	299.5 95.5	228.3 166.8

Live Load Effect

Impact Factors: ten - .289 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	79.55 L	61.70	153.42	54.54	42.30	167.42
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	42.28 R	32.79	177.42	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.45 R	48.44	177.42	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.25 R	53.71	181.42	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	60.81 R	47.16	179.42	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.55 L	61.70	153.42	54.54	42.30	167.42
		0.00 R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.72	HS 34.43	62.0
2F1	5.40	0.00	81.0
3F1	3.65	0.00	84.1
4F1	3.30	0.00	89.0
5C1	3.75	0.00	150.2
HS20	2.87	HS 57.38	103.3

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. L 7L 8

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14057.	17530.	17530.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
22.50	421.86	743.54	7.50

Truss influence line - loaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	L 7L 8		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 210.6 0.0

Veh.	Axial Load Capacity Tension Compression	Available Capacity for LL+I Tension Compression
INV.	342.7 263.0	216.3 389.4
OPER	571.2 438.4	360.5 649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Loc. of Conc. Load
INV.	HS20	74.73 L 0.00 R	64.53 0.00	139.42 0.00	87.09 0.00
OPER	2F1	32.32 L 0.00 R	27.91 0.00	157.42 0.00	75.20 0.00
OPER	3F1	49.01 L 0.00 R	42.32 0.00	153.42 0.00	75.20 0.00
OPER	4F1	56.84 L 0.00 R	49.08 0.00	149.42 0.00	75.20 0.00
OPER	5C1	75.21 L 0.00 R	64.95 0.00	116.42 0.00	75.20 0.00
OPER	HS20	74.73 L 0.00 R	64.53 0.00	139.42 0.00	75.20 0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.48	HS 49.68	89.4
2F1	11.15	0.00	167.3
3F1	7.36	0.00	169.2
4F1	6.34	0.00	171.3
5C1	4.79	0.00	191.7
HS20	4.14	HS 82.79	149.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
 Truss Member I. D. U 7L 8

RATIO/Inv.	Allowable stress (fs) (psi)			
	Inventory	Operating	Posting	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14277.	17804.	17804.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.823	36.823	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0
.000 0.000	0.000							

RATING REPORT

Rating Types and Vehicles

Structure I. D.

HAM500

		INV.	OPER	POST	SPEC
		HS20	2F1		
Truss I. D.	1		3F1		
Truss Member I. D.	U 7L 8		4F1		
			5C1		
			HS20		

Axial Dead Load
 Tension Compression
 0.0 324.3

Veh.	Axial Tension	Load Capacity Compression	Available Tension	Capacity for LL+I Compression
INV.	627.7	489.3	822.3	294.7
OPER	1046.1	815.6	1370.4	491.2

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck w/imp.	Live Load w/o imp.	Force	Loc. of Front Wheel	Lane w/imp.	Live Load w/o imp.	Force	Loc. of Conc. Load
INV.	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-115.06 L	-99.36	139.42	-147.63	-127.48	167.42		
OPER	2F1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-49.76 L	-42.97	157.42	0.00	0.00	0.00	0.00	0.00
OPER	3F1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-75.47 L	-65.17	153.42	0.00	0.00	0.00	0.00	0.00
OPER	4F1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-87.51 L	-75.57	149.42	0.00	0.00	0.00	0.00	0.00
OPER	5C1	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-115.80 L	-100.00	116.42	0.00	0.00	0.00	0.00	0.00
OPER	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-115.06 L	-99.36	139.42	-147.63	-127.48	167.42		

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.93	71.9
2F1	9.87	0.00	148.1
3F1	6.51	0.00	149.7
4F1	5.61	0.00	151.6
5C1	4.24	0.00	169.7
HS20	3.33	HS 66.55	119.8