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
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		Unloaded Chord	
Dist.	Load	Dist.	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:

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

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
18.00	29.24	789.74	978.64	9.00	5.20	5.79

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
29.24	789.74	978.64	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	25.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	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	25.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
290.2	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	445.3	350.7	271.2	524.9
OPER	742.2	584.5	452.0	874.8

Live Load Effect

Impact Factors: ten - .133 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	79.82	R	70.43	53.00	113.35	100.01	25.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	34.18	R	30.16	35.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	51.99	R	45.87	39.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	60.48	R	53.37	43.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	82.57	R	72.85	76.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.82	R	70.43	53.00	113.35	100.01	25.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.39	HS 47.85	86.1
2F1	13.22	0.00	198.3
3F1	8.69	0.00	200.0
4F1	7.47	0.00	201.8
5C1	5.47	0.00	219.0
HS20	3.99	HS 79.76	143.6

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14238.	17756.	17756.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
37.537	37.537	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.31	55.60	4745.06	2918.48	22.96	9.24	7.25

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
55.60	4745.06	2918.48	22.96

Truss influence line - loaded chord:

X ordinates:	0.000	25.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.207	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	25.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.207	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	435.8

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	846.8	658.4	1108.3	396.9
OPER	1411.4	1097.3	1847.2	661.5

Live Load Effect

Impact Factors: ten - .000 comp - .133

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
		-119.85	R	-105.75	53.00	-184.08	-162.42	25.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-51.33	R	-45.29	35.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-78.06	R	-68.88	39.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-90.81	R	-80.13	43.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-123.97	R	-109.39	76.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-119.85	R	-105.75	53.00	-184.08	-162.42	25.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.16	HS 43.13	77.6
2F1	12.89	0.00	193.3
3F1	8.48	0.00	194.9
4F1	7.28	0.00	196.7
5C1	5.34	0.00	213.5
HS20	3.59	HS 71.88	129.4

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 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	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	Iy	Dy
11.80	310.00	44.10	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	0.000	25.000	50.000	250.000	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							

Truss influence line - unloaded chord:

X ordinates:	0.000	250.000	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

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
69.7	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	179.7	57.3	137.9	99.1
OPER	299.5	95.5	229.8	165.2

Live Load Effect

Impact Factors: ten - .286 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	80.99	R	62.99	39.00	68.58	53.34	25.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	42.45	R	33.02	35.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.83	R	48.87	35.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.89	R	54.36	39.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	61.26	R	47.65	37.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	80.99	R	62.99	39.00	68.58	53.34	25.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.70	HS 34.05	61.3
2F1	5.41	0.00	81.2
3F1	3.66	0.00	84.1
4F1	3.29	0.00	88.8
5C1	3.75	0.00	150.0
HS20	2.84	HS 56.75	102.1

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14958.	18653.	18653.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.874	25.874	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
29.25	45.20	4124.31	2460.90	24.81	9.55	7.38

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
45.20	4124.31	2460.90	24.81

Truss influence line - loaded chord:

X ordinates:	0.000	50.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.194	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	50.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.194	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
0.0	427.7

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	688.4	562.3	945.0	305.7
OPER	1147.4	937.2	1575.1	509.5

Live Load Effect

Impact Factors: ten - .000 comp - .133

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00
		-117.97 R	-104.09	78.00	-168.43	-148.62	50.00
OPER	2F1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-50.70 R	-44.74	60.00	0.00	0.00	0.00
OPER	3F1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-77.03 R	-67.97	64.00	0.00	0.00	0.00
OPER	4F1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-89.51 R	-78.98	68.00	0.00	0.00	0.00
OPER	5C1	0.00 R	0.00	0.00	0.00	0.00	0.00
		-121.15 L	-106.90	38.00	0.00	0.00	0.00
OPER	HS20	0.00 R	0.00	0.00	0.00	0.00	0.00
		-117.97 R	-104.09	78.00	-168.43	-148.62	50.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.82	HS 36.30	65.3
2F1	10.05	0.00	150.7
3F1	6.61	0.00	152.1
4F1	5.69	0.00	153.7
5C1	4.20	0.00	168.2
HS20	3.03	HS 60.50	108.9

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
18.00	29.24	789.74	978.64	9.00	5.20	5.79

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
29.24	789.74	978.64	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	25.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	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	25.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
290.2	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	445.3	350.7	271.2	524.9
OPER	742.2	584.5	452.0	874.8

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	79.82	R	70.43	53.00	113.35	100.01	25.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	34.18	R	30.16	35.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	51.99	R	45.87	39.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	60.48	R	53.37	43.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	82.57	R	72.85	76.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.82	R	70.43	53.00	113.35	100.01	25.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.39	HS 47.85	86.1
2F1	13.22	0.00	198.3
3F1	8.69	0.00	200.0
4F1	7.47	0.00	201.8
5C1	5.47	0.00	219.0
HS20	3.99	HS 79.76	143.6

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	7915.	9870.	9870.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
37.537	37.537	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	25.000	50.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.340	0.660	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	25.000	50.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.340	0.660	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
184.6	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	290.9	125.7	180.1	236.5
OPER	484.8	209.6	300.2	394.2

Live Load Effect

Impact Factors: ten - .146 comp - .300

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	65.94 R	57.52	78.00	91.53	79.84	50.00
		-25.90 L	-19.92	-3.00	-20.64	-15.87	25.00
OPER	2F1	28.34 R	24.72	60.00	0.00	0.00	0.00
		-14.61 L	-11.24	15.00	0.00	0.00	0.00
OPER	3F1	43.06 R	37.56	64.00	0.00	0.00	0.00
		-20.55 L	-15.80	11.00	0.00	0.00	0.00
OPER	4F1	50.03 R	43.64	68.00	0.00	0.00	0.00
		-21.71 L	-16.70	7.00	0.00	0.00	0.00
OPER	5C1	67.54 R	58.92	101.00	0.00	0.00	0.00
		-17.58 L	-13.52	-26.00	0.00	0.00	0.00
OPER	HS20	65.94 R	57.52	78.00	91.53	79.84	50.00
		-25.90 L	-19.92	-3.00	-20.64	-15.87	25.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.97	HS 39.36	70.8
2F1	10.59	0.00	158.9
3F1	6.97	0.00	160.4
4F1	6.00	0.00	162.0
5C1	4.45	0.00	177.8
HS20	3.28	HS 65.60	118.1

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9039.	11272.	11272.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
34.670	34.670	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	50.000	75.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.508	-0.431	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	25.000	50.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.254	-0.492	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	75.3

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	290.9	143.6	336.1	98.4
OPER	484.8	239.3	560.1	164.0

Live Load Effect

Impact Factors: ten - .265 comp - .161

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	47.78	L	37.77	22.00	37.80	29.88	50.00
		-43.26	R	-37.28	103.00	-54.38	-46.86	75.00
OPER	2F1	22.85	L	18.06	40.00	0.00	0.00	0.00
		-18.68	R	-16.10	85.00	0.00	0.00	0.00
OPER	3F1	33.68	L	26.62	36.00	0.00	0.00	0.00
		-28.34	R	-24.42	89.00	0.00	0.00	0.00
OPER	4F1	37.80	L	29.87	32.00	0.00	0.00	0.00
		-32.88	R	-28.33	93.00	0.00	0.00	0.00
OPER	5C1	34.95	R	27.63	62.00	0.00	0.00	0.00
		-43.75	R	-37.70	126.00	0.00	0.00	0.00
OPER	HS20	47.78	L	37.77	22.00	37.80	29.88	50.00
		-43.26	R	-37.28	103.00	-54.38	-46.86	75.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.81	HS 36.20	65.2
2F1	8.78	0.00	131.7
3F1	5.79	0.00	133.1
4F1	4.99	0.00	134.7
5C1	3.75	0.00	150.0
HS20	3.02	HS 60.33	108.6

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14972.	18671.	18671.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.318	25.318	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.31	52.00	4491.89	2777.39	22.52	9.29	7.31

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
52.00	4491.89	2777.39	22.52

Truss influence line - loaded chord:

X ordinates:	0.000	75.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	75.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
0.0	491.8

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	792.0	647.5	1087.1	352.4
OPER	1320.0	1079.2	1811.8	587.4

Live Load Effect

Impact Factors: ten - .000 comp - .133

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-134.89	R	-119.02	103.00	-193.94	-171.12	75.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-58.24	R	-51.39	85.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-88.36	R	-77.97	89.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-102.85	R	-90.75	89.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-139.52	L	-123.11	63.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-134.89	R	-119.02	103.00	-193.94	-171.12	75.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.82	HS 36.34	65.4
2F1	10.09	0.00	151.3
3F1	6.65	0.00	152.9
4F1	5.71	0.00	154.2
5C1	4.21	0.00	168.4
HS20	3.03	HS 60.57	109.0

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 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
18.00	40.50	1093.50	1284.58	9.00	5.20	5.63

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
40.50	1093.50	1284.58	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	50.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.154	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	50.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.154	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load

Tension	Compression
413.2	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	616.8	485.7	368.9	733.7
OPER	1028.1	809.6	614.9	1222.8

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	113.98	R	100.57	78.00	162.74	143.59	50.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	48.99	R	43.22	60.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	74.43	R	65.67	64.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	86.48	R	76.31	68.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	117.06	L	103.29	38.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	113.98	R	100.57	78.00	162.74	143.59	50.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.27	HS 45.34	81.6
2F1	12.55	0.00	188.3
3F1	8.26	0.00	190.0
4F1	7.11	0.00	192.0
5C1	5.25	0.00	210.1
HS20	3.78	HS 75.56	136.0

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	4117.	5134.	5134.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.741	42.741	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	50.000	75.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.425	0.595	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	50.000	75.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.425	0.595	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
123.9	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	237.6	53.4	163.3	127.7
OPER	396.0	89.0	272.1	212.9

Live Load Effect

Impact Factors: ten - .159 comp - .270

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	59.71	R	51.52	103.00	75.92	65.51	75.00
		-40.14	L	-31.62	22.00	-31.07	-24.47	50.00
OPER	2F1	25.78	R	22.25	85.00	0.00	0.00	0.00
		-19.19	L	-15.12	40.00	0.00	0.00	0.00
OPER	3F1	39.12	R	33.75	89.00	0.00	0.00	0.00
		-28.30	L	-22.29	36.00	0.00	0.00	0.00
OPER	4F1	45.38	R	39.16	93.00	0.00	0.00	0.00
		-31.75	L	-25.01	32.00	0.00	0.00	0.00
OPER	5C1	60.38	R	52.10	126.00	0.00	0.00	0.00
		-28.43	L	-22.39	-1.00	0.00	0.00	0.00
OPER	HS20	59.71	R	51.52	103.00	75.92	65.51	75.00
		-40.14	L	-31.62	22.00	-31.07	-24.47	50.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.15	HS 43.01	77.4
2F1	10.56	0.00	158.3
3F1	6.96	0.00	160.0
4F1	6.00	0.00	161.9
5C1	4.51	0.00	180.3
HS20	3.58	HS 71.68	129.0

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	10618.	13241.	13241.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
38.670	19.335	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	75.000	100.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.517	-0.414	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	50.000	75.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.345	-0.483	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	36.3

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	179.7	104.2	201.5	82.4
OPER	299.5	173.7	335.9	137.4

Live Load Effect

Impact Factors: ten - .234 comp - .175

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	51.09	L	41.41	47.00	44.12	35.76	75.00
		-41.69	R	-35.48	128.00	-47.88	-40.76	100.00
OPER	2F1	23.23	L	18.83	65.00	0.00	0.00	0.00
		-18.11	R	-15.42	110.00	0.00	0.00	0.00
OPER	3F1	34.73	L	28.15	61.00	0.00	0.00	0.00
		-27.43	R	-23.35	114.00	0.00	0.00	0.00
OPER	4F1	39.61	L	32.11	57.00	0.00	0.00	0.00
		-31.76	R	-27.03	118.00	0.00	0.00	0.00
OPER	5C1	43.89	L	35.58	24.00	0.00	0.00	0.00
		-41.41	R	-35.25	151.00	0.00	0.00	0.00
OPER	HS20	51.09	L	41.41	47.00	44.12	35.76	75.00
		-41.69	R	-35.48	128.00	-47.88	-40.76	100.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.72	HS 34.42	62.0
2F1	7.59	0.00	113.8
3F1	5.01	0.00	115.2
4F1	4.32	0.00	116.8
5C1	3.32	0.00	132.7
HS20	2.87	HS 57.37	103.3

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14975.	18675.	18675.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.035	25.035	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.31	55.60	4745.06	2918.48	22.96	9.24	7.25

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
55.60	4745.06	2918.48	22.96

Truss influence line - loaded chord:

X ordinates:	0.000	100.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	100.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	536.9

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	846.8	692.5	1169.0	370.3
OPER	1411.4	1154.2	1948.3	617.2

Live Load Effect

Impact Factors: ten - .000 comp - .133

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
		-146.79	L	-129.52	86.00	-211.88	-186.95	100.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-63.42	R	-55.96	110.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-96.25	R	-84.93	110.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-112.31	R	-99.10	114.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-151.17	L	-133.39	84.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-146.79	L	-129.52	86.00	-211.88	-186.95	100.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.75	HS 34.96	62.9
2F1	9.73	0.00	146.0
3F1	6.41	0.00	147.5
4F1	5.50	0.00	148.4
5C1	4.08	0.00	163.3
HS20	2.91	HS 58.26	104.9

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
18.00	49.50	1336.50	1505.17	9.00	5.20	5.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
49.50	1336.50	1505.17	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	75.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	1.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	75.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	1.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load

Tension	Compression
485.7	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	753.9	593.7	462.5	885.1
OPER	1256.5	989.5	770.9	1475.2

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	133.19	R	117.52	103.00	191.50	168.97	75.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	57.51	R	50.74	85.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	87.25	R	76.99	89.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	101.56	R	89.61	89.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	137.77	L	121.56	63.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	133.19	R	117.52	103.00	191.50	168.97	75.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.41	HS 48.31	86.9
2F1	13.40	0.00	201.1
3F1	8.84	0.00	203.2
4F1	7.59	0.00	204.9
5C1	5.59	0.00	223.8
HS20	4.03	HS 80.51	144.9

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	8643.	10779.	10779.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
46.048	23.024	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.06	13.20	350.00	50.00	0.00	5.15	1.95

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
13.20	350.00	50.00	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	75.000	100.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.428	0.619	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	75.000	100.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.428	0.619	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
93.1	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	201.0	94.9	145.2	150.7
OPER	335.1	158.1	242.0	251.2

Live Load Effect

Impact Factors: ten - .173 comp - .238

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	62.28 R	53.12	128.00	72.62	61.94	100.00
		-42.47 L	-34.31	47.00	-35.89	-28.99	75.00
OPER	2F1	27.06 R	23.08	110.00	0.00	0.00	0.00
		-19.31 L	-15.60	65.00	0.00	0.00	0.00
OPER	3F1	40.98 R	34.95	114.00	0.00	0.00	0.00
		-28.87 L	-23.32	61.00	0.00	0.00	0.00
OPER	4F1	47.45 R	40.47	118.00	0.00	0.00	0.00
		-32.93 L	-26.60	57.00	0.00	0.00	0.00
OPER	5C1	61.88 R	52.77	151.00	0.00	0.00	0.00
		-36.48 L	-29.47	24.00	0.00	0.00	0.00
OPER	HS20	62.28 R	53.12	128.00	72.62	61.94	100.00
		-42.47 L	-34.31	47.00	-35.89	-28.99	75.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.99	72.0
2F1	8.94	0.00	134.2
3F1	5.91	0.00	135.8
4F1	5.10	0.00	137.7
5C1	3.91	0.00	156.5
HS20	3.33	HS 66.65	120.0

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 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	10272.	12809.	12809.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.000	20.000	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	100.000	125.000	250.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.480	-0.433	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	75.000	100.000	250.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	0.360	-0.520	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
0.0	14.4

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	179.7	100.8	188.4	92.1
OPER	299.5	168.0	314.0	153.6

Live Load Effect

Impact Factors: ten - .210 comp - .191

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	48.13 L	39.78	72.00	45.86	37.90	100.00
		-43.68 R	-36.68	153.00	-45.76	-38.43	125.00
OPER	2F1	21.38 L	17.67	90.00	0.00	0.00	0.00
		-19.15 R	-16.08	135.00	0.00	0.00	0.00
OPER	3F1	32.18 L	26.59	86.00	0.00	0.00	0.00
		-28.92 R	-24.29	139.00	0.00	0.00	0.00
OPER	4F1	36.98 L	30.56	82.00	0.00	0.00	0.00
		-33.39 R	-28.04	143.00	0.00	0.00	0.00
OPER	5C1	44.69 L	36.94	49.00	0.00	0.00	0.00
		-42.29 R	-35.51	176.00	0.00	0.00	0.00
OPER	HS20	48.13 L	39.78	72.00	45.86	37.90	100.00
		-43.68 R	-36.68	153.00	-45.76	-38.43	125.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.01	HS 40.27	72.5
2F1	8.02	0.00	120.3
3F1	5.31	0.00	122.1
4F1	4.60	0.00	124.2
5C1	3.63	0.00	145.3
HS20	3.36	HS 67.12	120.8

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
18.00	54.00	1458.00	1604.36	9.00	5.20	5.45

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
54.00	1458.00	1604.36	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	100.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	100.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
536.2	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	822.5	647.7	500.7	969.4
OPER	1370.8	1079.4	834.6	1615.6

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	146.58	L	129.34	86.00	211.58	186.69	100.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	63.33	R	55.88	110.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	96.12	R	84.81	110.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	112.15	R	98.96	114.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	150.96	L	133.20	84.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	146.58	L	129.34	86.00	211.58	186.69	100.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.37	HS 47.33	85.2
2F1	13.18	0.00	197.7
3F1	8.68	0.00	199.7
4F1	7.44	0.00	200.9
5C1	5.53	0.00	221.1
HS20	3.94	HS 78.89	142.0

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 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14977.	18677.	18677.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.31	55.60	4745.06	2918.48	22.96	9.24	7.25

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
55.60	4745.06	2918.48	22.96

Truss influence line - loaded chord:

X ordinates:	0.000	125.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.562	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	125.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.562	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load	
Tension	Compression
0.0	558.4

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	846.8	692.6	1181.9	357.5
OPER	1411.4	1154.3	1969.8	595.8

Live Load Effect

Impact Factors: ten - .000 comp - .133

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
		-151.85	R	-133.99	139.00	-220.40	-194.47	125.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-65.67	R	-57.94	135.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-100.07	R	-88.30	135.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-116.41	R	-102.71	139.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-155.05	L	-136.81	109.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-151.85	R	-133.99	139.00	-220.40	-194.47	125.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.62	HS 32.44	58.4
2F1	9.07	0.00	136.1
3F1	5.95	0.00	136.9
4F1	5.12	0.00	138.2
5C1	3.84	0.00	153.7
HS20	2.70	HS 54.07	97.3

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5276.	6579.	6579.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
47.170	23.585	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.71	10.64	302.68	25.49	6.35	5.33	1.55

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.64	302.68	25.49	6.35

Truss influence line - loaded chord:

X ordinates:	0.000	100.000	125.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.472	0.590	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	100.000	125.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.472	0.590	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
42.0	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	162.0	0.0	136.8	0.0
OPER	270.0	0.0	228.0	0.0

Live Load Effect

Impact Factors: ten - .189 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	59.34	R	49.89	153.00	62.74	52.75	125.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	26.01	R	21.87	135.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	39.29	R	33.03	139.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	45.36	R	38.14	143.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	57.45	R	48.30	176.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	59.34	R	49.89	153.00	62.74	52.75	125.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.18	HS 43.61	78.5
2F1	8.77	0.00	131.5
3F1	5.80	0.00	133.5
4F1	5.03	0.00	135.7
5C1	3.97	0.00	158.8
HS20	3.63	HS 72.68	130.8

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5276.	6579.	6579.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
47.170	23.585	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.71	10.64	302.68	25.49	6.35	5.33	1.55

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
10.64	302.68	25.49	6.35

Truss influence line - loaded chord:

X ordinates:	0.000	100.000	125.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.472	-0.590	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	100.000	125.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.472	-0.590	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load

Tension	Compression
0.0	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	162.0	0.0	162.0	0.0
OPER	270.0	0.0	270.0	0.0

Live Load Effect

Impact Factors: ten - .212 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	47.39	L	39.11	72.00	44.68	36.88	100.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	21.05	L	17.37	90.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	31.68	L	26.14	86.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	36.41	L	30.05	82.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	44.01	L	36.31	49.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	47.39	L	39.11	72.00	44.68	36.88	100.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	3.42	HS 68.37	123.1
2F1	12.82	0.00	192.4
3F1	8.52	0.00	196.0
4F1	7.41	0.00	200.2
5C1	6.14	0.00	245.4
HS20	5.70	HS113.95	205.1

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	10272.	12809.	12809.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.000	20.000	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	250.000	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	100.000	1500.000	1800.000	3000.000	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

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
-7.4	7.4

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	179.7	100.8	184.1	96.4
OPER	299.5	168.0	306.9	160.7

Live Load Effect

Impact Factors: ten - .189 comp - .212

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	50.32	R	42.31	153.00	53.21	44.73	125.00
		-40.18	L	-33.16	72.00	-37.89	-31.27	100.00
OPER	2F1	42.45	L	33.02	115.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.83	R	48.87	135.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.89	L	54.36	111.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	48.71	R	40.95	176.00	0.00	0.00	0.00
		-37.32	L	-30.79	49.00	0.00	0.00	0.00
OPER	HS20	50.32	R	42.31	153.00	53.21	44.73	125.00
		-40.18	L	-33.16	72.00	-37.89	-31.27	100.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.40	HS 47.98	86.4
2F1	999.00	999.00	999.0
3F1	999.00	999.00	999.0
4F1	999.00	999.00	999.0
5C1	4.30	0.00	172.2
HS20	4.00	HS 79.96	143.9

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
18.00	54.00	1458.00	1604.36	9.00	5.20	5.45

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
54.00	1458.00	1604.36	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	150.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	150.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
536.2	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	822.5	647.7	500.7	969.4
OPER	1370.8	1079.4	834.6	1615.6

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	146.58	R	129.34	164.00	211.58	186.69	150.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	63.33	L	55.88	140.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	96.12	L	84.81	140.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	112.15	L	98.96	136.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	150.96	R	133.20	166.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	146.58	R	129.34	164.00	211.58	186.69	150.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.37	HS 47.33	85.2
2F1	13.18	0.00	197.7
3F1	8.68	0.00	199.7
4F1	7.44	0.00	200.9
5C1	5.53	0.00	221.1
HS20	3.94	HS 78.89	142.0

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14977.	18677.	18677.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
29.31	55.60	4745.06	2918.48	22.96	9.24	7.25

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
55.60	4745.06	2918.48	22.96

Truss influence line - loaded chord:

X ordinates:	0.000	125.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.562	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	125.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.562	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load

Tension	Compression
0.0	558.4

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	846.8	692.6	1181.9	357.5
OPER	1411.4	1154.3	1969.8	595.8

Live Load Effect

Impact Factors: ten - .000 comp - .133

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-151.85	R	-133.99	139.00	-220.40	-194.47	125.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-65.67	R	-57.94	135.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-100.07	R	-88.30	135.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-116.41	R	-102.71	139.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-155.05	L	-136.81	109.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-151.85	R	-133.99	139.00	-220.40	-194.47	125.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.62	HS 32.44	58.4
2F1	9.07	0.00	136.1
3F1	5.95	0.00	136.9
4F1	5.12	0.00	138.2
5C1	3.84	0.00	153.7
HS20	2.70	HS 54.07	97.3

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5276.	6579.	6579.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
47.170	23.585	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.71	10.64	302.68	25.49	6.35	5.33	1.55

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
10.64	302.68	25.49	6.35

Truss influence line - loaded chord:

X ordinates:	0.000	125.000	150.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.590	-0.472	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	125.000	150.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.590	-0.472	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load

Tension	Compression
42.0	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	162.0	0.0	136.8	0.0
OPER	270.0	0.0	228.0	0.0

Live Load Effect

Impact Factors: ten - .189 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	59.34	L	49.89	97.00	62.74	52.75	125.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	26.01	L	21.87	115.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	39.29	L	33.03	111.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	45.36	L	38.14	107.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	57.45	L	48.30	74.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	59.34	L	49.89	97.00	62.74	52.75	125.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.18	HS 43.61	78.5
2F1	8.77	0.00	131.5
3F1	5.80	0.00	133.5
4F1	5.03	0.00	135.7
5C1	3.97	0.00	158.8
HS20	3.63	HS 72.68	130.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

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

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	5276.	6579.	6579.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
47.170	23.585	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.71	10.64	302.68	25.49	6.35	5.33	1.55

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
10.64	302.68	25.49	6.35

Truss influence line - loaded chord:

X ordinates:	0.000	125.000	150.000	250.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.590	0.472	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	125.000	150.000	250.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.590	0.472	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
0.0	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	162.0	0.0	162.0	0.0
OPER	270.0	0.0	270.0	0.0

Live Load Effect

Impact Factors: ten - .212 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	47.39 R	39.11	178.00	44.68	36.88	150.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	21.05 R	17.37	160.00	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	31.68 R	26.14	164.00	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	36.41 R	30.05	168.00	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	44.01 R	36.31	201.00	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	47.39 R	39.11	178.00	44.68	36.88	150.00
		0.00 R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	3.42	HS 68.37	123.1
2F1	12.82	0.00	192.4
3F1	8.52	0.00	196.0
4F1	7.41	0.00	200.2
5C1	6.14	0.00	245.4
HS20	5.70	HS113.95	205.1

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	10272.	12809.	12809.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.000	20.000	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	125.000	150.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.433	0.480	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	150.000	175.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.520	0.360	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	14.4

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	179.7	100.8	188.4	92.1
OPER	299.5	168.0	314.0	153.6

Live Load Effect

Impact Factors: ten - .210 comp - .191

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	48.13	R	39.78	178.00	45.86	37.90	150.00
		-43.68	L	-36.68	97.00	-45.76	-38.43	125.00
OPER	2F1	21.38	R	17.67	160.00	0.00	0.00	0.00
		-19.15	L	-16.08	115.00	0.00	0.00	0.00
OPER	3F1	32.18	R	26.59	164.00	0.00	0.00	0.00
		-28.92	L	-24.29	111.00	0.00	0.00	0.00
OPER	4F1	36.98	R	30.56	168.00	0.00	0.00	0.00
		-33.39	L	-28.04	107.00	0.00	0.00	0.00
OPER	5C1	44.69	R	36.94	201.00	0.00	0.00	0.00
		-42.29	L	-35.51	74.00	0.00	0.00	0.00
OPER	HS20	48.13	R	39.78	178.00	45.86	37.90	150.00
		-43.68	L	-36.68	97.00	-45.76	-38.43	125.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.01	HS 40.27	72.5
2F1	8.02	0.00	120.3
3F1	5.31	0.00	122.1
4F1	4.60	0.00	124.2
5C1	3.63	0.00	145.3
HS20	3.36	HS 67.12	120.8

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 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
18.00	49.50	1336.50	1505.17	9.00	5.20	5.51

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
49.50	1336.50	1505.17	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	175.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.358	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	175.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.358	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
485.7	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	753.9	593.7	462.5	885.1
OPER	1256.5	989.5	770.9	1475.2

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	133.19	L	117.52	147.00	191.50	168.97	175.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	57.51	L	50.74	165.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	87.25	L	76.99	161.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	101.56	L	89.61	161.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	137.77	R	121.56	187.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	133.19	L	117.52	147.00	191.50	168.97	175.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.41	HS 48.31	86.9
2F1	13.40	0.00	201.1
3F1	8.84	0.00	203.2
4F1	7.59	0.00	204.9
5C1	5.59	0.00	223.8
HS20	4.03	HS 80.51	144.9

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14975.	18675.	18675.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.035	25.035	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
29.31	55.60	4745.06	2918.48	22.96	9.24	7.25

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
55.60	4745.06	2918.48	22.96

Truss influence line - loaded chord:

X ordinates:	0.000	150.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	150.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	536.9

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	846.8	692.5	1169.0	370.3
OPER	1411.4	1154.2	1948.3	617.2

Live Load Effect

Impact Factors: ten - .000 comp - .133

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
		-146.79	R	-129.52	164.00	-211.88	-186.95	150.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-63.42	L	-55.96	140.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-96.25	L	-84.93	140.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-112.31	L	-99.10	136.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-151.17	R	-133.39	166.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-146.79	R	-129.52	164.00	-211.88	-186.95	150.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.75	HS 34.96	62.9
2F1	9.73	0.00	146.0
3F1	6.41	0.00	147.5
4F1	5.50	0.00	148.4
5C1	4.08	0.00	163.3
HS20	2.91	HS 58.26	104.9

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	8643.	10779.	10779.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
46.048	23.024	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.06	13.20	350.00	50.00	0.00	5.15	1.95

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
13.20	350.00	50.00	0.00

Truss influence line - loaded chord:

X ordinates:	0.000	150.000	175.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.619	-0.428	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	150.000	175.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.619	-0.428	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
93.1	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	201.0	94.9	145.2	150.7
OPER	335.1	158.1	242.0	251.2

Live Load Effect

Impact Factors: ten - .173 comp - .238

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	62.28	L	53.12	122.00	72.62	61.94	150.00
		-42.47	R	-34.31	203.00	-35.89	-28.99	175.00
OPER	2F1	27.06	L	23.08	140.00	0.00	0.00	0.00
		-19.31	R	-15.60	185.00	0.00	0.00	0.00
OPER	3F1	40.98	L	34.95	136.00	0.00	0.00	0.00
		-28.87	R	-23.32	189.00	0.00	0.00	0.00
OPER	4F1	47.45	L	40.47	132.00	0.00	0.00	0.00
		-32.93	R	-26.60	193.00	0.00	0.00	0.00
OPER	5C1	61.88	L	52.77	99.00	0.00	0.00	0.00
		-36.48	R	-29.47	226.00	0.00	0.00	0.00
OPER	HS20	62.28	L	53.12	122.00	72.62	61.94	150.00
		-42.47	R	-34.31	203.00	-35.89	-28.99	175.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.99	72.0
2F1	8.94	0.00	134.2
3F1	5.91	0.00	135.8
4F1	5.10	0.00	137.7
5C1	3.91	0.00	156.5
HS20	3.33	HS 66.65	120.0

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 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	10618.	13241.	13241.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
38.670	19.335	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	150.000	175.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.414	0.517	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	175.000	200.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.483	0.345	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	36.3

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	179.7	104.2	201.5	82.4
OPER	299.5	173.7	335.9	137.4

Live Load Effect

Impact Factors: ten - .234 comp - .175

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	51.09 R	41.41	203.00	37.64	30.51	175.00
		-41.69 L	-35.48	122.00	-42.94	-36.55	150.00
OPER	2F1	23.23 R	18.83	185.00	0.00	0.00	0.00
		-18.11 L	-15.42	140.00	0.00	0.00	0.00
OPER	3F1	34.73 R	28.15	189.00	0.00	0.00	0.00
		-27.43 L	-23.35	136.00	0.00	0.00	0.00
OPER	4F1	39.61 R	32.11	193.00	0.00	0.00	0.00
		-31.76 L	-27.03	132.00	0.00	0.00	0.00
OPER	5C1	43.89 R	35.58	226.00	0.00	0.00	0.00
		-41.41 L	-35.25	99.00	0.00	0.00	0.00
OPER	HS20	51.09 R	41.41	203.00	37.64	30.51	175.00
		-41.69 L	-35.48	122.00	-42.94	-36.55	150.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.92	HS 38.38	69.1
2F1	7.59	0.00	113.8
3F1	5.01	0.00	115.2
4F1	4.32	0.00	116.8
5C1	3.32	0.00	132.7
HS20	3.20	HS 63.97	115.2

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) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
18.00	40.50	1093.50	1284.58	9.00	5.20	5.63

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
40.50	1093.50	1284.58	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	200.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.154	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	200.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.154	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
413.2	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	616.8	485.7	368.9	733.7
OPER	1028.1	809.6	614.9	1222.8

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	113.98	L	100.57	172.00	162.74	143.59	200.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	48.99	L	43.22	190.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	74.43	L	65.67	186.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	86.48	L	76.31	182.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	117.06	R	103.29	212.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	113.98	L	100.57	172.00	162.74	143.59	200.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.27	HS 45.34	81.6
2F1	12.55	0.00	188.3
3F1	8.26	0.00	190.0
4F1	7.11	0.00	192.0
5C1	5.25	0.00	210.1
HS20	3.78	HS 75.56	136.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

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

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14972.	18671.	18671.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.318	25.318	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.31	52.00	4491.89	2777.39	22.52	9.29	7.31

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
52.00	4491.89	2777.39	22.52

Truss influence line - loaded chord:

X ordinates:	0.000	175.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	175.000	250.000	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
0.0	491.8

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	792.0	647.5	1087.1	352.4
OPER	1320.0	1079.2	1811.8	587.4

Live Load Effect

Impact Factors: ten - .000 comp - .133

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
		-134.89	L	-119.02	147.00	-193.94	-171.12	175.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-58.24	L	-51.39	165.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-88.36	L	-77.97	161.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-102.85	L	-90.75	161.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-139.52	R	-123.11	187.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-134.89	L	-119.02	147.00	-193.94	-171.12	175.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.82	HS 36.34	65.4
2F1	10.09	0.00	151.3
3F1	6.65	0.00	152.9
4F1	5.71	0.00	154.2
5C1	4.21	0.00	168.4
HS20	3.03	HS 60.57	109.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

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

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	4116.	5133.	5133.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.743	42.743	0.00	P	1.0

Gross Section Properties:

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

Truss influence line - loaded chord:

X ordinates:	0.000	175.000	200.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.595	-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	175.000	200.000	250.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.595	-0.425	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

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

Axial Dead Load	
Tension	Compression
123.9	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	237.6	53.4	163.3	127.7
OPER	396.0	89.0	272.1	212.9

Live Load Effect

Impact Factors: ten - .159 comp - .270

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	59.71	L	51.52	147.00	75.92	65.51	175.00
		-40.14	R	-31.62	228.00	-31.07	-24.47	200.00
OPER	2F1	25.78	L	22.25	165.00	0.00	0.00	0.00
		-19.19	R	-15.12	210.00	0.00	0.00	0.00
OPER	3F1	39.12	L	33.75	161.00	0.00	0.00	0.00
		-28.30	R	-22.29	214.00	0.00	0.00	0.00
OPER	4F1	45.38	L	39.16	157.00	0.00	0.00	0.00
		-31.75	R	-25.01	218.00	0.00	0.00	0.00
OPER	5C1	60.38	L	52.10	124.00	0.00	0.00	0.00
		-28.43	R	-22.39	251.00	0.00	0.00	0.00
OPER	HS20	59.71	L	51.52	147.00	75.92	65.51	175.00
		-40.14	R	-31.62	228.00	-31.07	-24.47	200.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.15	HS 43.01	77.4
2F1	10.56	0.00	158.3
3F1	6.96	0.00	160.0
4F1	6.00	0.00	161.9
5C1	4.51	0.00	180.3
HS20	3.58	HS 71.68	129.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

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

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	9039.	11272.	11272.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
34.670	34.670	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	175.000	200.000	250.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.431	0.508	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

Truss influence line - unloaded chord:

X ordinates:	0.000	200.000	225.000	250.000	0.000	0.000	0.000	0
.000	0.000	0.000						
Y ordinates:	0.000	-0.492	0.254	0.000	0.000	0.000	0.000	0
.000	0.000	0.000						

RATING REPORT

Structure I. D. HAM500

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

Rating Types and Vehicles

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

Axial Dead Load	
Tension	Compression
0.0	75.3

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	290.9	143.6	336.1	98.4
OPER	484.8	239.3	560.1	164.0

Live Load Effect

Impact Factors: ten - .265 comp - .161

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	47.78	R	37.77	228.00	31.28	24.72	200.00
		-43.26	L	-37.28	147.00	-49.30	-42.48	175.00
OPER	2F1	22.85	R	18.06	210.00	0.00	0.00	0.00
		-18.68	L	-16.10	165.00	0.00	0.00	0.00
OPER	3F1	33.68	R	26.62	214.00	0.00	0.00	0.00
		-28.34	L	-24.42	161.00	0.00	0.00	0.00
OPER	4F1	37.80	R	29.87	218.00	0.00	0.00	0.00
		-32.88	L	-28.33	157.00	0.00	0.00	0.00
OPER	5C1	34.95	L	27.63	188.00	0.00	0.00	0.00
		-43.75	L	-37.70	124.00	0.00	0.00	0.00
OPER	HS20	47.78	R	37.77	228.00	31.28	24.72	200.00
		-43.26	L	-37.28	147.00	-49.30	-42.48	175.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.93	71.9
2F1	8.78	0.00	131.7
3F1	5.79	0.00	133.1
4F1	4.99	0.00	134.7
5C1	3.75	0.00	150.0
HS20	3.33	HS 66.54	119.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 8L 9

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
18.00	29.24	789.74	978.64	9.00	5.20	5.79

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
29.24	789.74	978.64	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	225.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	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	225.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

RATING REPORT

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 8L 9

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
290.2	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	445.3	350.7	271.2	524.9
OPER	742.2	584.5	452.0	874.8

Live Load Effect

Impact Factors: ten - .133 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	79.82	L	70.43	197.00	113.35	100.01	225.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	34.18	L	30.16	215.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	51.99	L	45.87	211.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	60.48	L	53.37	207.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	82.57	L	72.85	174.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.82	L	70.43	197.00	113.35	100.01	225.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.39	HS 47.85	86.1
2F1	13.22	0.00	198.3
3F1	8.69	0.00	200.0
4F1	7.47	0.00	201.8
5C1	5.47	0.00	219.0
HS20	3.99	HS 79.76	143.6

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 8U 9

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14958.	18653.	18653.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.874	25.874	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.25	45.20	4124.31	2460.90	24.81	9.55	7.38

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
45.20	4124.31	2460.90	24.81

Truss influence line - loaded chord:

X ordinates:	0.000	200.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.194	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	200.000	250.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.194	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 8U 9

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
0.0	427.7

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	688.4	562.3	945.0	305.7
OPER	1147.4	937.2	1575.1	509.5

Live Load Effect

Impact Factors: ten - .000 comp - .133

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-117.97	L	-104.09	172.00	-168.43	-148.62	200.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-50.70	L	-44.74	190.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-77.03	L	-67.97	186.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-89.51	L	-78.98	182.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-121.15	R	-106.90	212.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-117.97	L	-104.09	172.00	-168.43	-148.62	200.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.82	HS 36.30	65.3
2F1	10.05	0.00	150.7
3F1	6.61	0.00	152.1
4F1	5.69	0.00	153.7
5C1	4.20	0.00	168.2
HS20	3.03	HS 60.50	108.9

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 8U 9

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	7915.	9871.	9871.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
37.537	37.537	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	200.000	225.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.660	-0.340	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	200.000	225.000	250.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.660	-0.340	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

Truss I. D. 1
Truss Member I. D. L 8U 9

Axial Dead Load

Tension	Compression
184.6	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	290.9	125.7	180.1	236.5
OPER	484.8	209.6	300.2	394.2

Live Load Effect

Impact Factors: ten - .146 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	65.94	L	57.52	172.00	91.53	79.84	200.00
		-25.90	R	-19.92	253.00	-20.64	-15.87	225.00
OPER	2F1	28.34	L	24.72	190.00	0.00	0.00	0.00
		-14.61	R	-11.24	235.00	0.00	0.00	0.00
OPER	3F1	43.06	L	37.56	186.00	0.00	0.00	0.00
		-20.55	R	-15.80	239.00	0.00	0.00	0.00
OPER	4F1	50.03	L	43.64	182.00	0.00	0.00	0.00
		-21.71	R	-16.70	243.00	0.00	0.00	0.00
OPER	5C1	67.54	L	58.92	149.00	0.00	0.00	0.00
		-17.58	R	-13.52	276.00	0.00	0.00	0.00
OPER	HS20	65.94	L	57.52	172.00	91.53	79.84	200.00
		-25.90	R	-19.92	253.00	-20.64	-15.87	225.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.97	HS 39.36	70.8
2F1	10.59	0.00	158.9
3F1	6.97	0.00	160.4
4F1	6.00	0.00	162.0
5C1	4.45	0.00	177.8
HS20	3.28	HS 65.60	118.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 9L 9

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 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	200.000	225.000	250.000	250.000	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							

Truss influence line - unloaded chord:

X ordinates:	0.000	250.000	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

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 9L 9

Rating Types and Vehicles

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

Axial Dead Load

Tension	Compression
69.7	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	179.7	57.3	137.9	99.1
OPER	299.5	95.5	229.8	165.2

Live Load Effect

Impact Factors: ten - .286 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	80.99	R	62.99	239.00	55.52	43.18	225.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	42.45	L	33.02	215.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.83	R	48.87	235.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.89	L	54.36	211.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	61.26	R	47.65	237.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	80.99	R	62.99	239.00	55.52	43.18	225.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.70	HS 34.05	61.3
2F1	5.41	0.00	81.2
3F1	3.66	0.00	84.1
4F1	3.29	0.00	88.8
5C1	3.75	0.00	150.0
HS20	2.84	HS 56.75	102.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 9L10

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14421.	17984.	17984.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
25.000	25.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
18.00	29.24	789.74	978.64	9.00	5.20	5.79

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
29.24	789.74	978.64	9.00

Truss influence line - loaded chord:

X ordinates:	0.000	225.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	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	225.000	250.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.804	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

RATING REPORT

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 9L10

Rating Types and Vehicles

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

Axial Dead Load	
Tension	Compression
290.2	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	445.3	350.7	271.2	524.9
OPER	742.2	584.5	452.0	874.8

Live Load Effect

Impact Factors: ten - .133 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	79.82	L	70.43	197.00	113.35	100.01	225.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	34.18	L	30.16	215.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	51.99	L	45.87	211.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	60.48	L	53.37	207.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	82.57	L	72.85	174.00	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.82	L	70.43	197.00	113.35	100.01	225.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.39	HS 47.85	86.1
2F1	13.22	0.00	198.3
3F1	8.69	0.00	200.0
4F1	7.47	0.00	201.8
5C1	5.47	0.00	219.0
HS20	3.99	HS 79.76	143.6

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 9L10

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	24750.	0.
Fy (compression)	14238.	17756.	17756.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
37.537	37.537	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
29.31	55.60	4745.06	2918.48	22.96	9.24	7.25

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
55.60	4745.06	2918.48	22.96

Truss influence line - loaded chord:

X ordinates:	0.000	225.000	250.000	0.000	0.000	0.000	0.000	0	.000	0.000	0.000
Y ordinates:	0.000	-1.207	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	225.000	250.000	0.000	0.000	0.000	0.000	0	.000	0.000	0.000
Y ordinates:	0.000	-1.207	0.000	0.000	0.000	0.000	0.000	0	.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

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

Truss I. D. 1
Truss Member I. D. U 9L10

Axial Dead Load	
Tension	Compression
0.0	435.8

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	846.8	658.4	1108.3	396.9
OPER	1411.4	1097.3	1847.2	661.5

Live Load Effect

Impact Factors: ten - .000 comp - .133

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
		-119.85	L	-105.75	197.00	-184.08	-162.42	225.00
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-51.33	L	-45.29	215.00	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-78.06	L	-68.88	211.00	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-90.81	L	-80.13	207.00	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-123.97	L	-109.39	174.00	0.00	0.00	0.00
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-119.85	L	-105.75	197.00	-184.08	-162.42	225.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.16	HS 43.13	77.6
2F1	12.89	0.00	193.3
3F1	8.48	0.00	194.9
4F1	7.28	0.00	196.7
5C1	5.34	0.00	213.5
HS20	3.59	HS 71.88	129.4