



BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B01 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	1.917	235.5	235.5	35.000	0.0
1	P	5.417	0.0	0.0	0.000	7.9
1	P	12.417	0.0	0.0	0.000	6.5
1	P	19.417	0.0	0.0	0.000	7.2
1	P	26.417	0.0	0.0	0.000	7.2
1	P	33.420	0.0	0.0	0.000	7.9

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.





SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B01

Span	Section Gross	Area Net	Neutral Axis Top Bott.		Moment of +Bend	Inertia -Bend	Section Modulus				
							+Bend		-Bend		
							Top	Bott.	Top	Bott.	
.											
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
1.474 5	221.71	221.71	0.11	36.19	43140.2	15040.0	393265.5	1192.0	913.1	758.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B01

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	119.77	119.77	6.37	29.93	31981.8	15040.0	5016.8	1068.7	913.1	758.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B02 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	22.6
1	P	12.417	0.0	0.0	0.000	18.6
1	P	19.417	0.0	0.0	0.000	20.6
1	P	26.417	0.0	0.0	0.000	20.6
1	P	33.420	0.0	0.0	0.000	22.6

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.







## SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

B02

Span	Section Gross	Area Net	Neutral Axis		Moment of +Bend	Inertia -Bend	Section Modulus			
			Top	Bott.			+Bend		-Bend	
							Top	Bott.	Top	Bott.
.										
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
1.474 5	232.11	232.11	1.27	35.23	51842.9	17906.1	40809.9	1471.6	1010.5	953.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B02

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
1.474	130.17	130.17	7.94	28.56	37710.7	17906.1	4747.7	1320.5	1010.5	953.5
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B03 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	20.2
1	P	12.417	0.0	0.0	0.000	16.6
1	P	19.417	0.0	0.0	0.000	18.4
1	P	26.417	0.0	0.0	0.000	18.4
1	P	33.420	0.0	0.0	0.000	20.2

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.





SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B03

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus				
			Top	Bott.	+Bend	-Bend	+Bend		-Bend		
					Top	Bott.	Top	Bott.	Top	Bott.	
.											
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
1.474 3	220.31	220.31	0.09	36.21	42332.8	14924.9	480360.7	1169.0	912.5	748.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.	
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.	

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B03

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	118.37	118.37	6.45	29.85	31298.9	14924.9	4851.1	1048.6	912.5	748.3
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5















































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B04 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	20.2
1	P	12.417	0.0	0.0	0.000	16.6
1	P	19.417	0.0	0.0	0.000	18.4
1	P	26.417	0.0	0.0	0.000	18.4
1	P	33.420	0.0	0.0	0.000	20.2

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.





SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B04

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus					
			Top	Bott.	+Bend	-Bend	+Bend		-Bend			
					Top	Bott.	Top	Bott.	Top	Bott.		
.												
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
1.474 1	223.71	223.71	0.40	35.90	45230.3	15542.7	112579.3	1260.0	918.4	802.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B04

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	121.77	121.77	6.81	29.49	33329.7	15542.7	4896.8	1130.1	918.4	802.1
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B05 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	20.2
1	P	12.417	0.0	0.0	0.000	16.6
1	P	19.417	0.0	0.0	0.000	18.4
1	P	26.417	0.0	0.0	0.000	18.4
1	P	33.420	0.0	0.0	0.000	20.2

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.







SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B05

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus					
			Top	Bott.	+Bend	-Bend	+Bend		-Bend			
					Top	Bott.	Top	Bott.	Top	Bott.		
.												
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
1.474 5	224.61	224.61	0.54	35.76	46355.1	15857.1	85120.2	1296.4	924.1	828.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.		
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.		

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B05

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	122.67	122.67	7.02	29.28	34079.9	15857.1	4854.5	1163.9	924.1	828.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B06 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	20.2
1	P	12.417	0.0	0.0	0.000	16.6
1	P	19.417	0.0	0.0	0.000	18.4
1	P	26.417	0.0	0.0	0.000	18.4
1	P	33.420	0.0	0.0	0.000	20.2

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.





## SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

B06

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus						
			Top	Bott.	+Bend	-Bend	+Bend		-Bend				
					Top	Bott.	Top	Bott.	Top	Bott.			
.													
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
1.474 4	226.91	226.91	0.90	35.40	49106.3	16595.9	54827.1	1387.0	936.4	893.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B06

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	124.97	124.97	7.54	28.76	35889.4	16595.9	4760.3	1247.9	936.4	893.4
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B07 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	20.2
1	P	12.417	0.0	0.0	0.000	16.6
1	P	19.417	0.0	0.0	0.000	18.4
1	P	26.417	0.0	0.0	0.000	18.4
1	P	33.420	0.0	0.0	0.000	20.2

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.







## SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

B07

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus						
			Top	Bott.	+Bend	-Bend	+Bend		-Bend				
					Top	Bott.	Top	Bott.	Top	Bott.			
.													
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
1.474 2	226.81	226.81	0.88	35.42	48966.3	16561.3	55820.0	1382.3	935.9	890.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.			
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.			

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B07

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	124.87	124.87	7.51	28.79	35799.5	16561.3	4765.3	1243.6	935.9	890.2
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B08 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	15.000	1	0		0.0	0.0
1	2	3.000	2	0		0.0	0.0
1	3	20.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	2.750	119.1	119.1	33.330	0.0
1	P	5.417	0.0	0.0	0.000	22.6
1	P	12.417	0.0	0.0	0.000	18.6
1	P	19.417	0.0	0.0	0.000	20.6
1	P	26.417	0.0	0.0	0.000	20.6
1	P	33.420	0.0	0.0	0.000	22.6

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.





SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B08

Span	Section Gross	Area Net	Neutral Axis		Moment of +Bend	Inertia -Bend	Section Modulus			
			Top	Bott.			+Bend		-Bend	
							Top	Bott.	Top	Bott.
.										
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
1.474 4	232.01	232.01	1.25	35.25	51709.5	17873.2	41276.6	1467.1	1010.1	950.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 8	234.51	234.51	1.63	34.87	54663.2	18647.9	33608.1	1567.5	1021.8	1021.
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.
-1.000 5	234.51	234.51	1.63	34.87	54663.2	24816.4	33608.1	1567.5	1630.1	1166.



## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B08

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
1.474	130.07	130.07	7.92	28.58	37626.1	17873.2	4752.0	1316.4	1010.1	950.4
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	18647.9	4677.3	1408.9	1021.8	1021.8
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5
-1.000	132.57	132.57	8.45	28.05	39520.9	24816.4	4677.3	1408.9	1630.1	1166.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction CSC  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 1  
 Floor Beam Spacing 23.91

Comments:

Member I. D. B09 Symmetry:  
 Span Length: Span 1 38.833 Span 2 0.000 Span 3 0.000 Span 4 0.000 Span 5 0.000

Range Length -- Non-Composite:  

Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	38.833	1	0		0.0	0.0

Range Length -- Composite:  

Span No.	Range No.	Range Length	Composite Code
1	1	38.833	C

Superimposed Dead Load:  

Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	1.917	235.5	235.5	35.000	0.0
1	P	5.417	0.0	0.0	0.000	7.9
1	P	12.417	0.0	0.0	0.000	6.5
1	P	19.417	0.0	0.0	0.000	7.2
1	P	26.417	0.0	0.0	0.000	7.2
1	P	33.420	0.0	0.0	0.000	7.9

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.





SECTION STRENGTH (N=N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B09

Span	Section Gross	Area Net	Neutral Axis Top Bott.		Moment of Inertia +Bend -Bend		Section Modulus			
							+Bend		-Bend	
							Top	Bott.	Top	Bott.
.										
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
1.474 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
-1.000 7	228.81	228.81	1.17	35.13	51268.7	17145.4	43658.7	1459.6	944.7	944.
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.
-1.000 5	228.81	228.81	1.17	35.13	51268.7	23209.5	43658.7	1459.6	1553.8	1086.

## SECTION STRENGTH (N=3N) ( ASD/LFD )

Structure I. D. HAM500

Member I. D. B09

Span	Section Area		Neutral Axis		Moment of Inertia		Section Modulus			
	Gross	Net	Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
1.474	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	17145.4	4693.3	1314.9	944.7	944.7
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5
-1.000	126.87	126.87	7.94	28.36	37284.2	23209.5	4693.3	1314.9	1553.8	1086.5













































































































BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction SS  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 8

Live Load Distribution Factor 1.143

Second Live Load Dist. Factor 1.143

Comments:

Member I. D.	S01					Symmetry:
Span Length:	Span 1	Span 2	Span 3	Span 4	Span 5	
	23.917	23.917	23.917	23.917	23.917	
	Span 6	Span 7	Span 8	Span 9	Span 10	
	23.917	23.917	23.917	0.000	0.000	

Range Length -- Non-Composite:							
Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	23.917	1	0		0.0	0.0
2	1	23.917	1	0		0.0	0.0
3	1	23.917	1	0		0.0	0.0
4	1	23.917	1	0		0.0	0.0
5	1	23.917	1	0		0.0	0.0
6	1	23.917	1	0		0.0	0.0
7	1	23.917	1	0		0.0	0.0
8	1	23.917	1	0		0.0	0.0

Superimposed Dead Load:						
Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	0.000	765.0	765.0	23.917	0.0
1	P	11.958	0.0	0.0	0.000	0.1
2	W	0.000	765.0	765.0	23.917	0.0
2	P	11.958	0.0	0.0	0.000	0.1
3	W	0.000	765.0	765.0	23.917	0.0
3	P	11.958	0.0	0.0	0.000	0.1
4	W	0.000	765.0	765.0	23.917	0.0
4	P	11.958	0.0	0.0	0.000	0.1
5	W	0.000	765.0	765.0	23.917	0.0
5	P	11.958	0.0	0.0	0.000	0.1
6	W	0.000	765.0	765.0	23.917	0.0
6	P	11.958	0.0	0.0	0.000	0.1
7	W	0.000	765.0	765.0	23.917	0.0
7	P	11.958	0.0	0.0	0.000	0.1
8	W	0.000	765.0	765.0	23.917	0.0
8	P	11.958	0.0	0.0	0.000	0.1

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.



## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.		S01				
Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
1.000	20.99	19.76	0.40	0.0	0.0	33.
1.100	20.99	19.76	0.40	0.0	0.0	33.
1.200	20.99	19.76	0.40	0.0	0.0	33.
1.300	20.99	19.76	0.40	0.0	0.0	33.
1.400	20.99	19.76	0.40	0.0	0.0	33.
1.500	20.99	19.76	0.40	0.0	0.0	33.
1.600	20.99	19.76	0.40	0.0	0.0	33.
1.700	20.99	19.76	0.40	0.0	0.0	33.
1.800	20.99	19.76	0.40	0.0	0.0	33.
1.900	20.99	19.76	0.40	0.0	0.0	33.
2.000	20.99	19.76	0.40	0.0	0.0	33.
2.000	20.99	19.76	0.40	0.0	0.0	33.
2.100	20.99	19.76	0.40	0.0	0.0	33.
2.200	20.99	19.76	0.40	0.0	0.0	33.
2.300	20.99	19.76	0.40	0.0	0.0	33.
2.400	20.99	19.76	0.40	0.0	0.0	33.
2.500	20.99	19.76	0.40	0.0	0.0	33.
2.600	20.99	19.76	0.40	0.0	0.0	33.
2.700	20.99	19.76	0.40	0.0	0.0	33.
2.800	20.99	19.76	0.40	0.0	0.0	33.
2.900	20.99	19.76	0.40	0.0	0.0	33.
3.000	20.99	19.76	0.40	0.0	0.0	33.
3.000	20.99	19.76	0.40	0.0	0.0	33.
3.100	20.99	19.76	0.40	0.0	0.0	33.
3.200	20.99	19.76	0.40	0.0	0.0	33.
3.300	20.99	19.76	0.40	0.0	0.0	33.
3.400	20.99	19.76	0.40	0.0	0.0	33.
3.500	20.99	19.76	0.40	0.0	0.0	33.
3.600	20.99	19.76	0.40	0.0	0.0	33.
3.700	20.99	19.76	0.40	0.0	0.0	33.
3.800	20.99	19.76	0.40	0.0	0.0	33.
3.900	20.99	19.76	0.40	0.0	0.0	33.
4.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.		S01				
Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
4.000	20.99	19.76	0.40	0.0	0.0	33.
4.100	20.99	19.76	0.40	0.0	0.0	33.
4.200	20.99	19.76	0.40	0.0	0.0	33.
4.300	20.99	19.76	0.40	0.0	0.0	33.
4.400	20.99	19.76	0.40	0.0	0.0	33.
4.500	20.99	19.76	0.40	0.0	0.0	33.
4.600	20.99	19.76	0.40	0.0	0.0	33.
4.700	20.99	19.76	0.40	0.0	0.0	33.
4.800	20.99	19.76	0.40	0.0	0.0	33.
4.900	20.99	19.76	0.40	0.0	0.0	33.
5.000	20.99	19.76	0.40	0.0	0.0	33.
5.000	20.99	19.76	0.40	0.0	0.0	33.
5.100	20.99	19.76	0.40	0.0	0.0	33.
5.200	20.99	19.76	0.40	0.0	0.0	33.
5.300	20.99	19.76	0.40	0.0	0.0	33.
5.400	20.99	19.76	0.40	0.0	0.0	33.
5.500	20.99	19.76	0.40	0.0	0.0	33.
5.600	20.99	19.76	0.40	0.0	0.0	33.
5.700	20.99	19.76	0.40	0.0	0.0	33.
5.800	20.99	19.76	0.40	0.0	0.0	33.
5.900	20.99	19.76	0.40	0.0	0.0	33.
6.000	20.99	19.76	0.40	0.0	0.0	33.
6.000	20.99	19.76	0.40	0.0	0.0	33.
6.100	20.99	19.76	0.40	0.0	0.0	33.
6.200	20.99	19.76	0.40	0.0	0.0	33.
6.300	20.99	19.76	0.40	0.0	0.0	33.
6.400	20.99	19.76	0.40	0.0	0.0	33.
6.500	20.99	19.76	0.40	0.0	0.0	33.
6.600	20.99	19.76	0.40	0.0	0.0	33.
6.700	20.99	19.76	0.40	0.0	0.0	33.
6.800	20.99	19.76	0.40	0.0	0.0	33.
6.900	20.99	19.76	0.40	0.0	0.0	33.
7.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

S01

Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
7.000	20.99	19.76	0.40	0.0	0.0	33.
7.100	20.99	19.76	0.40	0.0	0.0	33.
7.200	20.99	19.76	0.40	0.0	0.0	33.
7.300	20.99	19.76	0.40	0.0	0.0	33.
7.400	20.99	19.76	0.40	0.0	0.0	33.
7.500	20.99	19.76	0.40	0.0	0.0	33.
7.600	20.99	19.76	0.40	0.0	0.0	33.
7.700	20.99	19.76	0.40	0.0	0.0	33.
7.800	20.99	19.76	0.40	0.0	0.0	33.
7.900	20.99	19.76	0.40	0.0	0.0	33.
8.000	20.99	19.76	0.40	0.0	0.0	33.
8.000	20.99	19.76	0.40	0.0	0.0	33.
8.100	20.99	19.76	0.40	0.0	0.0	33.
8.200	20.99	19.76	0.40	0.0	0.0	33.
8.300	20.99	19.76	0.40	0.0	0.0	33.
8.400	20.99	19.76	0.40	0.0	0.0	33.
8.500	20.99	19.76	0.40	0.0	0.0	33.
8.600	20.99	19.76	0.40	0.0	0.0	33.
8.700	20.99	19.76	0.40	0.0	0.0	33.
8.800	20.99	19.76	0.40	0.0	0.0	33.
8.900	20.99	19.76	0.40	0.0	0.0	33.
9.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION STRENGTH ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

S01

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend Top	Bott.	-Bend Top	Bott.
1.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S01

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
4.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S01

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend		-Bend	
					Top	Bott.	Top	Bott.	Top	Bott.
7.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
9.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	15.2	62.06 L	39.19	47.74	30.15
1.200	2.1	26.0	100.45 L	66.77	77.27	51.36
1.300	2.6	32.4	117.89 L	84.85	90.68	65.27
1.400	2.8	34.4	117.79 L	92.13	90.61	70.87
1.500	2.6	32.1	113.58 L	91.16	87.37	70.12
1.600	2.0	25.2	103.37 L	81.03	79.51	62.33
1.700	1.1	14.0	88.88 L	64.70	68.37	49.77
1.800	-0.2	-1.7	55.44 L	42.24	42.64	32.49
1.900	-1.8	-21.7	-53.85 R	-54.31	-41.42	-41.78
2.000	-3.8	-46.0	-100.91 L	-90.69	-77.62	-69.76
2.000	-3.8	-46.0	-100.91 L	-90.69	-77.62	-69.76
2.100	-2.1	-25.0	-67.67 R	-56.20	-52.06	-43.23
2.200	-0.7	-8.4	59.45 R	40.91	45.73	31.47
2.300	0.3	3.9	83.79 R	60.87	64.45	46.83
2.400	0.9	11.7	92.63 R	72.64	71.26	55.87
2.500	1.2	15.2	88.69 L	77.29	68.22	59.45
2.600	1.1	14.2	90.93 L	72.82	69.95	56.01
2.700	0.7	8.8	81.52 L	61.38	62.71	47.22
2.800	-0.1	-1.0	56.42 L	42.82	43.40	32.94
2.900	-1.3	-15.1	-54.60 L	-50.59	-42.00	-38.91
3.000	-2.8	-33.7	-95.40 L	-84.60	-73.38	-65.08
3.000	-2.8	-33.7	-95.40 L	-84.60	-73.38	-65.08
3.100	-1.2	-14.2	-55.60 R	-50.39	-42.77	-38.76
3.200	0.0	0.8	56.67 R	43.00	43.59	33.08
3.300	0.9	11.5	81.57 R	62.17	62.75	47.83
3.400	1.4	17.8	91.09 R	73.64	70.07	56.65
3.500	1.6	19.7	87.89 L	78.07	67.61	60.06
3.600	1.4	17.1	90.97 L	73.39	69.98	56.45
3.700	0.8	10.1	81.41 L	61.68	62.62	47.45
3.800	-0.1	-1.2	56.45 L	42.78	43.42	32.90
3.900	-1.4	-16.9	-54.66 L	-51.04	-42.05	-39.26
4.000	-3.0	-37.0	-95.00 L	-85.49	-73.08	-65.76

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
4.000	-3.0	-37.0	-95.00 L	-85.49	-73.08	-65.76
4.100	-1.4	-17.2	-54.73 R	-51.14	-42.10	-39.34
4.200	-0.2	-1.7	56.47 R	42.17	43.44	32.44
4.300	0.7	9.5	81.41 R	61.47	62.62	47.28
4.400	1.3	16.2	90.98 R	73.08	69.99	56.22
4.500	1.5	18.6	87.83 L	77.68	67.56	59.75
4.600	1.3	16.5	90.98 L	73.15	69.98	56.27
4.700	0.8	9.9	81.40 L	61.60	62.61	47.38
4.800	-0.1	-1.0	56.45 L	42.85	43.42	32.96
4.900	-1.3	-16.3	-54.67 L	-50.83	-42.05	-39.10
5.000	-2.9	-35.9	-94.97 R	-85.13	-73.06	-65.48
5.000	-2.9	-35.9	-94.97 R	-85.13	-73.06	-65.48
5.100	-1.3	-16.3	-54.67 R	-50.85	-42.05	-39.12
5.200	-0.1	-1.0	56.45 R	42.38	43.42	32.60
5.300	0.8	9.9	81.40 R	61.60	62.61	47.39
5.400	1.3	16.5	90.98 R	73.15	69.98	56.27
5.500	1.5	18.6	87.83 R	77.68	67.56	59.75
5.600	1.3	16.2	90.98 L	73.08	69.99	56.22
5.700	0.7	9.5	81.41 L	61.47	62.62	47.28
5.800	-0.2	-1.7	56.47 L	42.64	43.44	32.80
5.900	-1.4	-17.2	-54.73 L	-51.12	-42.10	-39.32
6.000	-3.0	-37.0	-94.99 L	-85.49	-73.07	-65.76
6.000	-3.0	-37.0	-94.99 L	-85.49	-73.07	-65.76
6.100	-1.4	-16.9	-54.66 R	-51.07	-42.05	-39.28
6.200	-0.1	-1.2	56.45 R	42.30	43.42	32.54
6.300	0.8	10.1	81.41 R	61.68	62.62	47.45
6.400	1.4	17.1	90.97 R	73.39	69.98	56.45
6.500	1.6	19.7	87.89 R	78.07	67.61	60.06
6.600	1.4	17.8	91.09 L	73.64	70.07	56.65
6.700	0.9	11.5	81.57 L	62.17	62.74	47.83
6.800	0.0	0.8	56.67 L	43.47	43.59	33.44
6.900	-1.2	-14.2	-55.60 L	-50.37	-42.77	-38.74
7.000	-2.8	-33.7	-95.28 L	-84.60	-73.29	-65.08



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
7.000	-2.8	-33.7	-95.28 L	-84.60	-73.29	-65.08
7.100	-1.3	-15.1	-54.60 R	-50.61	-42.00	-38.93
7.200	-0.1	-1.0	56.43 R	42.35	43.40	32.58
7.300	0.7	8.8	81.52 R	61.38	62.71	47.22
7.400	1.1	14.2	90.93 R	72.82	69.95	56.01
7.500	1.2	15.2	88.69 R	77.29	68.22	59.45
7.600	0.9	11.7	92.63 L	72.64	71.26	55.87
7.700	0.3	3.9	83.79 L	60.87	64.45	46.82
7.800	-0.7	-8.4	59.45 L	40.91	45.73	31.47
7.900	-2.1	-25.0	-67.67 L	-56.18	-52.05	-43.21
8.000	-3.8	-46.0	-100.87 R	-90.69	-77.59	-69.76
8.000	-3.8	-46.0	-100.87 R	-90.69	-77.59	-69.76
8.100	-1.8	-21.7	-53.85 L	-54.33	-41.42	-41.79
8.200	-0.2	-1.7	55.44 R	41.77	42.64	32.13
8.300	1.1	14.0	88.88 R	64.70	68.37	49.77
8.400	2.0	25.2	103.37 R	81.03	79.51	62.33
8.500	2.6	32.1	113.58 R	91.16	87.37	70.12
8.600	2.8	34.4	117.79 R	92.13	90.61	70.87
8.700	2.6	32.4	117.89 R	84.85	90.68	65.27
8.800	2.1	26.0	100.45 R	66.77	77.27	51.36
8.900	1.2	15.2	62.06 R	39.19	47.74	30.15
9.000	0.0	0.0	0.00 R	0.00	0.00	0.00

## MOMENT CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 4	1.000	180.4C	161.2	-161.2	-180.4C	180.4	161.2	-161.2	-180.
2	1.100	180.4C	161.2	-161.2	-180.4C	170.5	151.4	-171.0	-190.
2	1.200	180.4C	161.2	-161.2	-180.4C	163.6	144.4	-178.0	-197.
4	1.300	180.4C	161.2	-161.2	-180.4C	159.4	140.2	-182.2	-201.
7	1.400	180.4C	161.2	-161.2	-180.4C	158.1	138.9	-183.5	-202.
2	1.500	180.4C	161.2	-161.2	-180.4C	159.6	140.4	-182.0	-201.
7	1.600	180.4C	161.2	-161.2	-180.4C	164.1	144.9	-177.5	-196.
4	1.700	180.4C	161.2	-161.2	-180.4C	171.3	152.2	-170.2	-189.
3	1.800	180.4C	161.2	-161.2	-180.4C	181.5	162.3	-160.1	-179.
3	1.900	180.4C	161.2	-161.2	-180.4C	194.4	175.3	-147.1	-166.
5	2.000	180.4C	161.2	-161.2	-180.4C	210.3	191.1	-131.3	-150.
5	2.000	180.4C	161.2	-161.2	-180.4C	210.3	191.1	-131.3	-150.
1	2.100	180.4C	161.2	-161.2	-180.4C	196.6	177.4	-144.9	-164.
9	2.200	180.4C	161.2	-161.2	-180.4C	185.8	166.7	-155.7	-174.
9	2.300	180.4C	161.2	-161.2	-180.4C	177.9	158.7	-163.7	-182.
0	2.400	180.4C	161.2	-161.2	-180.4C	172.8	153.6	-168.8	-188.
2	2.500	180.4C	161.2	-161.2	-180.4C	170.5	151.3	-171.0	-190.
6	2.600	180.4C	161.2	-161.2	-180.4C	171.2	152.0	-170.4	-189.
1	2.700	180.4C	161.2	-161.2	-180.4C	174.7	155.5	-166.9	-186.
7	2.800	180.4C	161.2	-161.2	-180.4C	181.0	161.8	-160.5	-179.
5	2.900	180.4C	161.2	-161.2	-180.4C	190.2	171.0	-151.4	-170.

5	3.000	180.4C	161.2	-161.2	-180.4C	202.2	183.1	-139.3	-158.
5	3.000	180.4C	161.2	-161.2	-180.4C	202.2	183.1	-139.3	-158.
1	3.100	180.4C	161.2	-161.2	-180.4C	189.6	170.4	-151.9	-171.
9	3.200	180.4C	161.2	-161.2	-180.4C	179.9	160.7	-161.7	-180.
8	3.300	180.4C	161.2	-161.2	-180.4C	172.9	153.8	-168.6	-187.
9	3.400	180.4C	161.2	-161.2	-180.4C	168.9	149.7	-172.7	-191.
2	3.500	180.4C	161.2	-161.2	-180.4C	167.6	148.4	-174.0	-193.
5	3.600	180.4C	161.2	-161.2	-180.4C	169.3	150.1	-172.3	-191.
9	3.700	180.4C	161.2	-161.2	-180.4C	173.8	154.6	-167.8	-186.
6	3.800	180.4C	161.2	-161.2	-180.4C	181.2	162.0	-160.4	-179.
4	3.900	180.4C	161.2	-161.2	-180.4C	191.4	172.2	-150.2	-169.
3	4.000	180.4C	161.2	-161.2	-180.4C	204.4	185.2	-137.1	-156.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

INV.

Rating Live Load:

HS20

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
3	4.000	180.4C	161.2	-161.2	-180.4C	204.4	185.2	-137.1	-156.
2	4.100	180.4C	161.2	-161.2	-180.4C	191.5	172.3	-150.0	-169.
3	4.200	180.4C	161.2	-161.2	-180.4C	181.5	162.3	-160.1	-179.
5	4.300	180.4C	161.2	-161.2	-180.4C	174.3	155.1	-167.3	-186.
9	4.400	180.4C	161.2	-161.2	-180.4C	169.9	150.7	-171.7	-190.
4	4.500	180.4C	161.2	-161.2	-180.4C	168.3	149.2	-173.2	-192.
0	4.600	180.4C	161.2	-161.2	-180.4C	169.7	150.5	-171.8	-191.
8	4.700	180.4C	161.2	-161.2	-180.4C	174.0	154.8	-167.6	-186.
7	4.800	180.4C	161.2	-161.2	-180.4C	181.0	161.8	-160.5	-179.
8	4.900	180.4C	161.2	-161.2	-180.4C	191.0	171.8	-150.6	-169.
1	5.000	180.4C	161.2	-161.2	-180.4C	203.7	184.5	-137.9	-157.
1	5.000	180.4C	161.2	-161.2	-180.4C	203.7	184.5	-137.9	-157.
8	5.100	180.4C	161.2	-161.2	-180.4C	191.0	171.8	-150.6	-169.
7	5.200	180.4C	161.2	-161.2	-180.4C	181.0	161.8	-160.5	-179.
8	5.300	180.4C	161.2	-161.2	-180.4C	174.0	154.8	-167.6	-186.
0	5.400	180.4C	161.2	-161.2	-180.4C	169.7	150.5	-171.8	-191.
4	5.500	180.4C	161.2	-161.2	-180.4C	168.3	149.2	-173.2	-192.
9	5.600	180.4C	161.2	-161.2	-180.4C	169.9	150.7	-171.7	-190.
5	5.700	180.4C	161.2	-161.2	-180.4C	174.3	155.1	-167.3	-186.
3	5.800	180.4C	161.2	-161.2	-180.4C	181.5	162.3	-160.1	-179.
2	5.900	180.4C	161.2	-161.2	-180.4C	191.5	172.3	-150.0	-169.

3	6.000	180.4C	161.2	-161.2	-180.4C	204.4	185.2	-137.1	-156.
3	6.000	180.4C	161.2	-161.2	-180.4C	204.4	185.2	-137.1	-156.
4	6.100	180.4C	161.2	-161.2	-180.4C	191.4	172.2	-150.2	-169.
6	6.200	180.4C	161.2	-161.2	-180.4C	181.2	162.0	-160.4	-179.
9	6.300	180.4C	161.2	-161.2	-180.4C	173.8	154.6	-167.8	-186.
5	6.400	180.4C	161.2	-161.2	-180.4C	169.3	150.1	-172.3	-191.
2	6.500	180.4C	161.2	-161.2	-180.4C	167.6	148.4	-174.0	-193.
9	6.600	180.4C	161.2	-161.2	-180.4C	168.9	149.7	-172.7	-191.
8	6.700	180.4C	161.2	-161.2	-180.4C	172.9	153.8	-168.6	-187.
9	6.800	180.4C	161.2	-161.2	-180.4C	179.9	160.7	-161.7	-180.
1	6.900	180.4C	161.2	-161.2	-180.4C	189.6	170.4	-151.9	-171.
5	7.000	180.4C	161.2	-161.2	-180.4C	202.2	183.1	-139.3	-158.



9.000 180.4C 161.2 -161.2 -180.4C 180.4 161.2 -161.2 -180.  
4

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	-bend	+bend	-bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	2.75	32.92	2.44	36.61	HS 48.78	87.8
1.200	1.63	17.13	1.44	18.98	HS 28.74	51.7
1.300	1.35	11.69	1.19	12.92	HS 23.79	42.8
1.400	1.34	8.83	1.18	9.75	HS 23.58	42.4
1.500	1.40	7.01	1.24	7.74	HS 24.72	44.5
1.600	1.59	5.69	1.40	6.31	HS 28.03	50.5
1.700	1.93	4.68	1.71	5.21	HS 34.24	61.6
1.800	3.27	3.85	2.93	4.31	HS 58.55	105.4
1.900	9.44	2.71	8.51	3.06	HS 54.18	97.5
2.000	15.10	1.30	13.72	1.49	HS 26.03	46.8
2.000	15.10	1.30	13.72	1.49	HS 26.03	46.8
2.100	9.19	2.14	8.30	2.42	HS 42.84	77.1
2.200	3.13	2.78	2.80	3.13	HS 55.68	100.2
2.300	2.12	3.53	1.89	3.94	HS 37.88	68.2
2.400	1.87	4.57	1.66	5.09	HS 33.16	59.7
2.500	1.92	6.24	1.71	6.94	HS 34.13	61.4
2.600	1.88	6.12	1.67	6.81	HS 33.43	60.2
2.700	2.14	4.80	1.91	5.35	HS 38.15	68.7
2.800	3.21	3.84	2.87	4.30	HS 57.37	103.3
2.900	7.88	2.77	7.09	3.12	HS 55.45	99.8
3.000	10.07	1.46	9.12	1.66	HS 29.21	52.6
3.000	10.07	1.46	9.12	1.66	HS 29.21	52.6
3.100	7.61	2.73	6.84	3.08	HS 54.66	98.4
3.200	3.17	3.84	2.84	4.29	HS 56.71	102.1
3.300	2.12	4.82	1.88	5.37	HS 37.70	67.9
3.400	1.85	6.21	1.64	6.90	HS 32.86	59.1
3.500	1.91	8.23	1.69	9.14	HS 33.77	60.8
3.600	1.86	6.24	1.65	6.94	HS 33.00	59.4
3.700	2.13	4.84	1.90	5.39	HS 37.99	68.4
3.800	3.21	3.84	2.87	4.30	HS 57.39	103.3
3.900	8.08	2.75	7.27	3.10	HS 54.95	98.9
4.000	13.24	1.44	12.00	1.65	HS 28.87	52.0



## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	+bend	-bend		
4.000	13.24	1.44	12.00	1.65	HS 28.87	52.0
4.100	7.98	2.74	7.18	3.09	HS 54.83	98.7
4.200	3.21	3.83	2.87	4.29	HS 57.48	103.5
4.300	2.14	4.82	1.90	5.37	HS 38.10	68.6
4.400	1.87	6.22	1.66	6.91	HS 33.12	59.6
4.500	1.92	8.12	1.70	9.02	HS 33.96	61.1
4.600	1.87	6.23	1.65	6.92	HS 33.10	59.6
4.700	2.14	4.83	1.90	5.39	HS 38.03	68.5
4.800	3.21	3.84	2.87	4.30	HS 57.34	103.2
4.900	7.99	2.76	7.19	3.11	HS 55.11	99.2
5.000	12.98	1.45	11.76	1.65	HS 29.03	52.3
5.000	12.98	1.45	11.76	1.65	HS 29.03	52.3
5.100	7.86	2.76	7.07	3.11	HS 55.11	99.2
5.200	3.21	3.84	2.87	4.30	HS 57.34	103.2
5.300	2.14	4.83	1.90	5.39	HS 38.03	68.5
5.400	1.87	6.23	1.65	6.92	HS 33.10	59.6
5.500	1.92	8.12	1.70	9.02	HS 33.96	61.1
5.600	1.87	6.22	1.66	6.91	HS 33.12	59.6
5.700	2.14	4.82	1.90	5.37	HS 38.10	68.6
5.800	3.21	3.83	2.87	4.29	HS 57.48	103.5
5.900	8.11	2.74	7.30	3.09	HS 54.83	98.7
6.000	13.24	1.44	12.00	1.65	HS 28.88	52.0
6.000	13.24	1.44	12.00	1.65	HS 28.88	52.0
6.100	7.95	2.75	7.15	3.10	HS 54.95	98.9
6.200	3.21	3.84	2.87	4.30	HS 57.39	103.3
6.300	2.13	4.84	1.90	5.39	HS 37.99	68.4
6.400	1.86	6.24	1.65	6.94	HS 33.00	59.4
6.500	1.91	8.23	1.69	9.14	HS 33.77	60.8
6.600	1.85	6.21	1.64	6.90	HS 32.86	59.1
6.700	2.12	4.82	1.88	5.37	HS 37.70	67.9
6.800	3.17	3.84	2.84	4.29	HS 56.71	102.1
6.900	7.73	2.73	6.95	3.08	HS 54.66	98.4
7.000	10.07	1.46	9.12	1.66	HS 29.25	52.6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	-bend	+bend	-bend		
7.000	10.07	1.46	9.12	1.66	HS 29.25	52.6
7.100	7.76	2.77	6.97	3.12	HS 55.44	99.8
7.200	3.21	3.84	2.87	4.30	HS 57.37	103.3
7.300	2.14	4.79	1.91	5.35	HS 38.15	68.7
7.400	1.88	6.12	1.67	6.81	HS 33.43	60.2
7.500	1.92	6.24	1.71	6.94	HS 34.13	61.4
7.600	1.87	4.57	1.66	5.09	HS 33.16	59.7
7.700	2.12	3.53	1.89	3.94	HS 37.88	68.2
7.800	3.13	2.78	2.80	3.13	HS 55.68	100.2
7.900	9.37	2.14	8.45	2.42	HS 42.84	77.1
8.000	15.10	1.30	13.72	1.49	HS 26.04	46.9
8.000	15.10	1.30	13.72	1.49	HS 26.04	46.9
8.100	9.27	2.71	8.35	3.06	HS 54.16	97.5
8.200	3.27	3.85	2.93	4.31	HS 58.55	105.4
8.300	1.93	4.68	1.71	5.21	HS 34.24	61.6
8.400	1.59	5.69	1.40	6.31	HS 28.03	50.5
8.500	1.40	7.01	1.24	7.74	HS 24.72	44.5
8.600	1.34	8.83	1.18	9.75	HS 23.58	42.4
8.700	1.35	11.69	1.19	12.92	HS 23.79	42.8
8.800	1.63	17.13	1.44	18.98	HS 28.74	51.7
8.900	2.75	32.92	2.44	36.61	HS 48.78	87.8
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	7.3	31.19	24.40	24.00	18.77
1.100	0.4	5.4	25.95	20.89	19.96	16.07
1.200	0.3	3.6	21.00	17.56	16.15	13.51
1.300	0.1	1.8	16.43	14.43	12.64	11.10
1.400	0.0	-0.1	12.31	11.52	9.47	8.86
1.500	-0.2	-1.9	-15.37	-13.95	-11.82	-10.73
1.600	-0.3	-3.8	-18.34	-16.67	-14.11	-12.83
1.700	-0.5	-5.6	-22.80	-19.32	-17.54	-14.86
1.800	-0.6	-7.4	-27.72	-21.85	-21.32	-16.81
1.900	-0.8	-9.3	-32.21	-24.21	-24.77	-18.62
2.000	-0.9	-11.1	-36.19	-26.36	-27.84	-20.28
2.000	0.8	-11.1	33.50	26.13	25.77	20.10
2.100	0.6	7.9	29.37	23.54	22.59	18.11
2.200	0.5	6.0	24.68	20.73	18.98	15.95
2.300	0.3	4.2	20.51	17.81	15.77	13.70
2.400	0.2	2.4	17.12	14.86	13.17	11.43
2.500	0.0	0.6	-13.52	11.97	-10.40	9.21
2.600	-0.1	-1.4	-17.02	-14.82	-13.09	-11.40
2.700	-0.3	-3.2	-20.39	-17.75	-15.68	-13.65
2.800	-0.4	-5.0	-24.99	-20.63	-19.22	-15.87
2.900	-0.6	-6.8	-29.62	-23.37	-22.79	-17.97
3.000	-0.7	-8.7	-33.97	-25.86	-26.13	-19.89
3.000	0.7	9.0	33.80	25.99	26.00	20.00
3.100	0.6	7.2	29.42	23.47	22.63	18.05
3.200	0.4	5.4	24.77	20.70	19.05	15.92
3.300	0.3	3.5	20.31	17.79	15.63	13.69
3.400	0.1	1.7	16.93	14.84	13.02	11.41
3.500	0.0	-0.1	13.39	-12.04	10.30	-9.26
3.600	-0.2	-2.0	-16.92	-14.95	-13.02	-11.50
3.700	-0.3	-3.8	-20.31	-17.90	-15.62	-13.77
3.800	-0.5	-5.7	-24.79	-20.80	-19.07	-16.00
3.900	-0.6	-7.5	-29.44	-23.57	-22.64	-18.13
4.000	-0.8	-9.3	-33.81	-26.09	-26.01	-20.07

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
4.000	0.7	-9.3	33.80	26.06	26.00	20.04
4.100	0.6	7.4	29.42	23.54	22.63	18.10
4.200	0.5	5.6	24.77	20.77	19.06	15.98
4.300	0.3	3.7	20.30	17.86	15.62	13.74
4.400	0.2	1.9	16.91	14.91	13.01	11.47
4.500	0.0	0.1	13.38	12.00	10.29	9.23
4.600	-0.1	-1.8	-16.91	-14.88	-13.01	-11.45
4.700	-0.3	-3.6	-20.30	-17.84	-15.62	-13.72
4.800	-0.4	-5.5	-24.77	-20.74	-19.06	-15.96
4.900	-0.6	-7.3	-29.42	-23.51	-22.63	-18.08
5.000	-0.7	-9.1	-33.80	-26.03	-26.00	-20.02
5.000	0.7	9.1	33.80	26.03	26.00	20.02
5.100	0.6	7.3	29.42	23.51	22.63	18.08
5.200	0.4	5.5	24.77	20.74	19.06	15.96
5.300	0.3	3.6	20.30	17.84	15.62	13.72
5.400	0.1	1.8	16.91	14.88	13.01	11.45
5.500	0.0	-0.1	13.38	-12.00	10.29	-9.23
5.600	-0.2	-1.9	-16.91	-14.91	-13.01	-11.47
5.700	-0.3	-3.7	-20.30	-17.86	-15.62	-13.74
5.800	-0.5	-5.6	-24.77	-20.77	-19.06	-15.98
5.900	-0.6	-7.4	-29.42	-23.54	-22.63	-18.10
6.000	-0.7	-9.2	-33.80	-26.06	-26.00	-20.04
6.000	0.8	9.3	33.81	26.09	26.01	20.07
6.100	0.6	7.5	29.44	23.57	22.64	18.13
6.200	0.5	5.7	24.79	20.80	19.07	16.00
6.300	0.3	3.8	20.31	17.90	15.62	13.77
6.400	0.2	2.0	16.92	14.95	13.02	11.50
6.500	0.0	0.2	13.39	12.04	10.30	9.26
6.600	-0.1	-1.7	-16.93	-14.84	-13.02	-11.41
6.700	-0.3	-3.5	-20.31	-17.79	-15.63	-13.69
6.800	-0.4	-5.4	-24.77	-20.70	-19.05	-15.92
6.900	-0.6	-7.2	-29.42	-23.47	-22.63	-18.05
7.000	-0.7	-9.0	-33.80	-25.99	-26.00	-20.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
7.000	0.7	-9.0	33.97	25.86	26.13	19.89
7.100	0.6	6.8	29.62	23.37	22.79	17.97
7.200	0.4	5.0	24.99	20.63	19.22	15.87
7.300	0.3	3.2	20.39	17.75	15.68	13.65
7.400	0.1	1.4	17.02	14.82	13.09	11.40
7.500	0.0	-0.5	13.52	-11.97	10.40	-9.21
7.600	-0.2	-2.4	-17.12	-14.86	-13.17	-11.43
7.700	-0.3	-4.2	-20.51	-17.81	-15.77	-13.70
7.800	-0.5	-6.0	-24.68	-20.73	-18.98	-15.95
7.900	-0.6	-7.9	-29.37	-23.54	-22.59	-18.11
8.000	-0.8	-9.7	-33.82	-26.13	-26.01	-20.10
8.000	0.9	11.1	36.19	26.36	27.84	20.28
8.100	0.8	9.3	32.21	24.21	24.77	18.62
8.200	0.6	7.4	27.72	21.85	21.32	16.81
8.300	0.5	5.6	22.80	19.32	17.54	14.86
8.400	0.3	3.8	18.34	16.67	14.11	12.83
8.500	0.2	1.9	15.37	13.95	11.82	10.73
8.600	0.0	0.1	-12.31	-11.52	-9.47	-8.86
8.700	-0.1	-1.8	-16.43	-14.43	-12.64	-11.10
8.800	-0.3	-3.6	-21.00	-17.56	-16.15	-13.51
8.900	-0.4	-5.4	-25.95	-20.89	-19.96	-16.07
9.000	-0.6	-7.3	-31.19	-24.40	-24.00	-18.77

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	90.8	-74.5	65.1
1.100	90.8	-73.3	66.3
1.200	90.8	-72.2	67.5
1.300	90.8	-71.0	68.7
1.400	90.8	-69.8	69.9
1.500	90.8	-68.6	71.0
1.600	90.8	-67.4	72.3
1.700	90.8	-66.2	73.5
1.800	90.8	-65.0	74.7
1.900	90.8	-63.8	75.8
2.000	90.8	-62.6	77.0
2.000	90.8	-62.6	63.5
2.100	90.8	-74.9	64.7
2.200	90.8	-73.7	65.9
2.300	90.8	-72.6	67.1
2.400	90.8	-71.4	68.3
2.500	90.8	-70.2	69.5
2.600	90.8	-69.0	70.7
2.700	90.8	-67.8	71.9
2.800	90.8	-66.6	73.1
2.900	90.8	-65.4	74.3
3.000	90.8	-64.2	70.2
3.000	90.8	-64.2	64.0
3.100	90.8	-74.5	65.1
3.200	90.8	-73.3	66.3
3.300	90.8	-72.1	67.5
3.400	90.8	-70.9	68.7
3.500	90.8	-69.8	69.9
3.600	90.8	-68.5	71.1
3.700	90.8	-67.3	72.3
3.800	90.8	-66.2	73.5
3.900	90.8	-65.0	74.7
4.000	90.8	-63.8	70.3

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	90.8	-63.8	63.8
4.100	90.8	-74.6	65.0
4.200	90.8	-73.4	66.2
4.300	90.8	-72.2	67.4
4.400	90.8	-71.1	68.6
4.500	90.8	-69.9	69.8
4.600	90.8	-68.6	71.0
4.700	90.8	-67.5	72.2
4.800	90.8	-66.3	73.4
4.900	90.8	-65.1	74.6
5.000	90.8	-63.9	70.3
5.000	90.8	-63.9	63.9
5.100	90.8	-74.6	65.1
5.200	90.8	-73.4	66.3
5.300	90.8	-72.2	67.5
5.400	90.8	-71.0	68.6
5.500	90.8	-69.8	69.8
5.600	90.8	-68.6	71.1
5.700	90.8	-67.4	72.2
5.800	90.8	-66.2	73.4
5.900	90.8	-65.0	74.6
6.000	90.8	-63.8	70.3
6.000	90.8	-63.8	63.8
6.100	90.8	-74.7	65.0
6.200	90.8	-73.5	66.2
6.300	90.8	-72.3	67.3
6.400	90.8	-71.1	68.5
6.500	90.8	-69.9	69.7
6.600	90.8	-68.7	70.9
6.700	90.8	-67.5	72.1
6.800	90.8	-66.3	73.3
6.900	90.8	-65.1	74.5
7.000	90.8	-64.0	70.3

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	90.8	-64.0	64.2
7.100	90.8	-74.3	65.4
7.200	90.8	-73.1	66.6
7.300	90.8	-71.9	67.8
7.400	90.8	-70.7	69.0
7.500	90.8	-69.5	70.1
7.600	90.8	-68.3	71.4
7.700	90.8	-67.1	72.6
7.800	90.8	-65.9	73.7
7.900	90.8	-64.7	74.9
8.000	90.8	-63.5	70.3
8.000	90.8	-63.5	62.6
8.100	90.8	-75.8	63.8
8.200	90.8	-74.7	65.0
8.300	90.8	-73.5	66.2
8.400	90.8	-72.3	67.4
8.500	90.8	-71.1	68.6
8.600	90.8	-69.9	69.8
8.700	90.8	-68.7	71.0
8.800	90.8	-67.5	72.2
8.900	90.8	-66.3	73.3
9.000	90.8	-65.1	70.2



## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	35.12	2.09	HS 41.75	75.1
1.100	23.53	2.56	HS 51.11	92.0
1.200	12.07	3.21	HS 64.28	115.7
1.300	8.00	4.18	HS 83.60	150.5
1.400	5.89	5.67	HS 113.48	204.3
1.500	4.46	7.48	HS 89.27	160.7
1.600	3.67	10.91	HS 73.45	132.2
1.700	2.90	16.61	HS 58.05	104.5
1.800	2.34	28.04	HS 46.89	84.4
1.900	1.98	61.26	HS 39.62	71.3
2.000	1.73	135.55	HS 34.61	62.3
2.000	1.73	1.90	HS 34.61	62.3
2.100	25.95	2.20	HS 44.07	79.3
2.200	17.18	2.67	HS 53.41	96.1
2.300	11.02	3.27	HS 65.44	117.8
2.400	7.47	3.99	HS 79.76	143.6
2.500	5.19	5.15	HS 103.04	185.5
2.600	4.05	7.54	HS 81.04	145.9
2.700	3.32	10.72	HS 66.47	119.6
2.800	2.66	16.32	HS 53.29	95.9
2.900	2.21	18.69	HS 44.15	79.5
3.000	1.89	17.68	HS 37.80	68.0
3.000	1.89	1.89	HS 37.80	68.0
3.100	23.30	2.21	HS 44.29	79.7
3.200	16.49	2.68	HS 53.57	96.4
3.300	10.74	3.32	HS 66.47	119.7
3.400	7.56	4.06	HS 81.18	146.1
3.500	5.21	5.22	HS 104.17	187.5
3.600	4.05	7.59	HS 81.00	145.8
3.700	3.32	10.94	HS 66.32	119.4
3.800	2.67	16.90	HS 53.37	96.1
3.900	2.21	23.73	HS 44.14	79.4
4.000	1.89	22.63	HS 37.73	67.9

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	1.89	1.89	HS 37.73	67.9
4.100	23.72	2.21	HS 44.20	79.6
4.200	16.75	2.67	HS 53.45	96.2
4.300	10.87	3.32	HS 66.40	119.5
4.400	7.58	4.05	HS 81.10	146.0
4.500	5.22	5.21	HS 104.28	187.7
4.600	4.06	7.58	HS 81.17	146.1
4.700	3.32	10.81	HS 66.46	119.6
4.800	2.67	16.62	HS 53.50	96.3
4.900	2.21	23.46	HS 44.24	79.6
5.000	1.89	22.41	HS 37.81	68.1
5.000	1.89	1.89	HS 37.81	68.1
5.100	23.46	2.21	HS 44.24	79.6
5.200	16.62	2.67	HS 53.50	96.3
5.300	10.81	3.32	HS 66.46	119.6
5.400	7.58	4.06	HS 81.17	146.1
5.500	5.22	5.22	HS 104.33	187.8
5.600	4.05	7.58	HS 81.10	146.0
5.700	3.32	10.87	HS 66.40	119.5
5.800	2.67	16.75	HS 53.45	96.2
5.900	2.21	23.72	HS 44.20	79.6
6.000	1.89	22.64	HS 37.78	68.0
6.000	1.89	1.89	HS 37.73	67.9
6.100	23.73	2.21	HS 44.14	79.4
6.200	16.90	2.67	HS 53.37	96.1
6.300	10.94	3.32	HS 66.32	119.4
6.400	7.59	4.05	HS 81.00	145.8
6.500	5.22	5.20	HS 104.11	187.4
6.600	4.06	7.56	HS 81.18	146.1
6.700	3.32	10.74	HS 66.47	119.7
6.800	2.68	16.49	HS 53.57	96.4
6.900	2.21	23.30	HS 44.29	79.7
7.000	1.89	22.27	HS 37.85	68.1

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	1.89	1.89	HS 37.80	68.0
7.100	19.58	2.21	HS 44.15	79.5
7.200	16.32	2.66	HS 53.29	95.9
7.300	10.72	3.32	HS 66.47	119.6
7.400	7.54	4.05	HS 81.04	145.9
7.500	5.16	5.19	HS 103.10	185.6
7.600	3.99	7.47	HS 79.76	143.6
7.700	3.27	11.02	HS 65.44	117.8
7.800	2.67	17.18	HS 53.41	96.1
7.900	2.20	25.74	HS 44.07	79.3
8.000	1.88	24.15	HS 37.58	67.6
8.000	1.88	1.73	HS 34.61	62.3
8.100	61.26	1.98	HS 39.62	71.3
8.200	28.04	2.34	HS 46.89	84.4
8.300	16.61	2.90	HS 58.05	104.5
8.400	10.91	3.67	HS 73.45	132.2
8.500	7.48	4.46	HS 89.21	160.6
8.600	5.67	5.89	HS 113.48	204.3
8.700	4.18	8.00	HS 83.60	150.5
8.800	3.21	12.07	HS 64.28	115.7
8.900	2.56	23.53	HS 51.11	92.0
9.000	2.09	33.07	HS 41.75	75.1

## SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
1.000 67.6	167.6	167.6	-167.6	-167.6	167.6	167.6	-167.6	-1
1.100 77.5	174.2	174.2	-161.1	-161.1	157.8	157.8	-177.5	-1
1.200 84.5	178.9	178.9	-156.4	-156.4	150.8	150.8	-184.5	-1
1.300 88.6	181.6	181.6	-153.6	-153.6	146.7	146.7	-188.6	-1
1.400 89.9	182.5	182.5	-152.8	-152.8	145.3	145.3	-189.9	-1
1.500 88.4	181.5	181.5	-153.8	-153.8	146.9	146.9	-188.4	-1
1.600 84.0	178.5	178.5	-156.8	-156.8	151.3	151.3	-184.0	-1
1.700 76.7	173.7	173.7	-161.6	-161.6	158.6	158.6	-176.7	-1
1.800 66.5	166.9	166.9	-168.4	-168.4	168.7	168.7	-166.5	-1
1.900 53.6	158.3	158.3	-177.0	-177.0	181.7	181.7	-153.6	-1
2.000 37.8	147.7	147.7	-187.6	-187.6	197.5	197.5	-137.8	-1
2.000 37.8	147.7	147.7	-187.6	-187.6	197.5	197.5	-137.8	-1
2.100 51.4	156.8	156.8	-178.5	-178.5	183.9	183.9	-151.4	-1
2.200 62.2	164.0	164.0	-171.3	-171.3	173.1	173.1	-162.2	-1
2.300 70.1	169.3	169.3	-166.0	-166.0	165.2	165.2	-170.1	-1
2.400 75.2	172.7	172.7	-162.6	-162.6	160.1	160.1	-175.2	-1
2.500 77.5	174.2	174.2	-161.1	-161.1	157.8	157.8	-177.5	-1
2.600 76.8	173.8	173.8	-161.5	-161.5	158.4	158.4	-176.8	-1
2.700 73.3	171.4	171.4	-163.8	-163.8	162.0	162.0	-173.3	-1
2.800 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
2.900 57.8	161.1	161.1	-174.2	-174.2	177.5	177.5	-157.8	-1



SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 43.6	151.6	151.6	-183.7	-183.7	191.7	191.7	-143.6	-1
4.100 56.5	160.2	160.2	-175.1	-175.1	178.8	178.8	-156.5	-1
4.200 66.5	166.9	166.9	-168.4	-168.4	168.7	168.7	-166.5	-1
4.300 73.8	171.7	171.7	-163.6	-163.6	161.5	161.5	-173.8	-1
4.400 78.1	174.6	174.6	-160.6	-160.6	157.1	157.1	-178.1	-1
4.500 79.7	175.7	175.7	-159.6	-159.6	155.6	155.6	-179.7	-1
4.600 78.3	174.7	174.7	-160.5	-160.5	157.0	157.0	-178.3	-1
4.700 74.1	171.9	171.9	-163.4	-163.4	161.2	161.2	-174.1	-1
4.800 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
4.900 57.1	160.6	160.6	-174.7	-174.7	178.2	178.2	-157.1	-1
5.000 44.3	152.1	152.1	-183.2	-183.2	191.0	191.0	-144.3	-1
5.000 44.3	152.1	152.1	-183.2	-183.2	191.0	191.0	-144.3	-1
5.100 57.1	160.6	160.6	-174.7	-174.7	178.2	178.2	-157.1	-1
5.200 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
5.300 74.1	171.9	171.9	-163.4	-163.4	161.2	161.2	-174.1	-1
5.400 78.3	174.7	174.7	-160.5	-160.5	157.0	157.0	-178.3	-1
5.500 79.7	175.7	175.7	-159.6	-159.6	155.6	155.6	-179.7	-1
5.600 78.1	174.6	174.6	-160.6	-160.6	157.1	157.1	-178.1	-1
5.700 73.8	171.7	171.7	-163.6	-163.6	161.5	161.5	-173.8	-1
5.800 66.5	166.9	166.9	-168.4	-168.4	168.7	168.7	-166.5	-1
5.900 56.5	160.2	160.2	-175.1	-175.1	178.8	178.8	-156.5	-1

6.000	151.6	151.6	-183.7	-183.7	191.7	191.7	-143.6	-1
43.6								
6.000	151.6	151.6	-183.7	-183.7	191.7	191.7	-143.6	-1
43.6								
6.100	160.3	160.3	-175.0	-175.0	178.6	178.6	-156.6	-1
56.6								
6.200	167.1	167.1	-168.2	-168.2	168.4	168.4	-166.8	-1
66.8								
6.300	172.0	172.0	-163.3	-163.3	161.1	161.1	-174.2	-1
74.2								
6.400	175.0	175.0	-160.2	-160.2	156.6	156.6	-178.7	-1
78.7								
6.500	176.2	176.2	-159.1	-159.1	154.9	154.9	-180.4	-1
80.4								
6.600	175.3	175.3	-160.0	-160.0	156.1	156.1	-179.2	-1
79.2								
6.700	172.6	172.6	-162.7	-162.7	160.2	160.2	-175.1	-1
75.1								
6.800	168.0	168.0	-167.3	-167.3	167.1	167.1	-168.1	-1
68.1								
6.900	161.5	161.5	-173.8	-173.8	176.9	176.9	-158.4	-1
58.4								
7.000	153.1	153.1	-182.2	-182.2	189.5	189.5	-145.8	-1
45.8								

SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
 Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
7.000 45.8	153.1	153.1	-182.2	-182.2	189.5	189.5	-145.8	-1
7.100 57.8	161.1	161.1	-174.2	-174.2	177.5	177.5	-157.8	-1
7.200 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
7.300 73.3	171.4	171.4	-163.8	-163.8	162.0	162.0	-173.3	-1
7.400 76.8	173.8	173.8	-161.5	-161.5	158.4	158.4	-176.8	-1
7.500 77.5	174.2	174.2	-161.1	-161.1	157.8	157.8	-177.5	-1
7.600 75.2	172.7	172.7	-162.6	-162.6	160.1	160.1	-175.2	-1
7.700 70.1	169.3	169.3	-166.0	-166.0	165.2	165.2	-170.1	-1
7.800 62.2	164.0	164.0	-171.3	-171.3	173.1	173.1	-162.2	-1
7.900 51.4	156.8	156.8	-178.5	-178.5	183.9	183.9	-151.4	-1
8.000 37.8	147.7	147.7	-187.6	-187.6	197.5	197.5	-137.8	-1
8.000 37.8	147.7	147.7	-187.6	-187.6	197.5	197.5	-137.8	-1
8.100 53.6	158.3	158.3	-177.0	-177.0	181.7	181.7	-153.6	-1
8.200 66.5	166.9	166.9	-168.4	-168.4	168.7	168.7	-166.5	-1
8.300 76.7	173.7	173.7	-161.6	-161.6	158.6	158.6	-176.7	-1
8.400 84.0	178.5	178.5	-156.8	-156.8	151.3	151.3	-184.0	-1
8.500 88.4	181.5	181.5	-153.8	-153.8	146.9	146.9	-188.4	-1
8.600 89.9	182.5	182.5	-152.8	-152.8	145.3	145.3	-189.9	-1
8.700 88.6	181.6	181.6	-153.6	-153.6	146.7	146.7	-188.6	-1
8.800 84.5	178.9	178.9	-156.4	-156.4	150.8	150.8	-184.5	-1
8.900 77.5	174.2	174.2	-161.1	-161.1	157.8	157.8	-177.5	-1



9.000	167.6	167.6	-167.6	-167.6	167.6	167.6	-167.6	-1
67.6								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	2.54	34.16	2.54	34.16	HS 50.86	91.5
1.200	1.50	17.75	1.50	17.75	HS 30.03	54.0
1.300	1.24	12.10	1.24	12.10	HS 24.88	44.8
1.400	1.23	9.14	1.23	9.14	HS 24.68	44.4
1.500	1.29	7.25	1.29	7.25	HS 25.86	46.5
1.600	1.46	5.90	1.46	5.90	HS 29.28	52.7
1.700	1.78	4.86	1.78	4.86	HS 35.69	64.2
1.800	3.04	4.01	3.04	4.01	HS 60.88	109.6
1.900	8.83	2.83	8.83	2.83	HS 56.56	101.8
2.000	14.19	1.37	14.19	1.37	HS 27.31	49.1
2.000	14.19	1.37	14.19	1.37	HS 27.31	49.1
2.100	8.60	2.24	8.60	2.24	HS 44.74	80.5
2.200	2.91	2.90	2.91	2.90	HS 57.99	104.4
2.300	1.97	3.66	1.97	3.66	HS 39.42	71.0
2.400	1.73	4.74	1.73	4.74	HS 34.56	62.2
2.500	1.78	6.47	1.78	6.47	HS 35.58	64.0
2.600	1.74	6.35	1.74	6.35	HS 34.85	62.7
2.700	1.99	4.98	1.99	4.98	HS 39.73	71.5
2.800	2.98	4.00	2.98	4.00	HS 59.65	107.4
2.900	7.35	2.89	7.35	2.89	HS 57.81	104.1
3.000	9.44	1.53	9.44	1.53	HS 30.56	55.0
3.000	9.44	1.53	9.44	1.53	HS 30.56	55.0
3.100	7.10	2.85	7.10	2.85	HS 56.98	102.6
3.200	2.95	3.99	2.95	3.99	HS 58.99	106.2
3.300	1.96	5.00	1.96	5.00	HS 39.28	70.7
3.400	1.71	6.44	1.71	6.44	HS 34.28	61.7
3.500	1.76	8.54	1.76	8.54	HS 35.24	63.4
3.600	1.72	6.47	1.72	6.47	HS 34.42	62.0
3.700	1.98	5.02	1.98	5.02	HS 39.57	71.2
3.800	2.98	3.99	2.98	3.99	HS 59.68	107.4
3.900	7.54	2.87	7.54	2.87	HS 57.31	103.2
4.000	12.42	1.51	12.42	1.51	HS 30.23	54.4

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	12.42	1.51	12.42	1.51	HS 30.23	54.4
4.100	7.45	2.86	7.45	2.86	HS 57.19	102.9
4.200	2.99	3.98	2.99	3.98	HS 59.76	107.6
4.300	1.98	5.01	1.98	5.01	HS 39.68	71.4
4.400	1.73	6.45	1.73	6.45	HS 34.54	62.2
4.500	1.77	8.42	1.77	8.42	HS 35.43	63.8
4.600	1.73	6.46	1.73	6.46	HS 34.51	62.1
4.700	1.98	5.02	1.98	5.02	HS 39.61	71.3
4.800	2.98	4.00	2.98	4.00	HS 59.62	107.3
4.900	7.46	2.87	7.46	2.87	HS 57.46	103.4
5.000	12.17	1.52	12.17	1.52	HS 30.39	54.7
5.000	12.17	1.52	12.17	1.52	HS 30.39	54.7
5.100	7.34	2.87	7.34	2.87	HS 57.46	103.4
5.200	2.98	4.00	2.98	4.00	HS 59.62	107.3
5.300	1.98	5.02	1.98	5.02	HS 39.61	71.3
5.400	1.73	6.46	1.73	6.46	HS 34.51	62.1
5.500	1.77	8.42	1.77	8.42	HS 35.43	63.8
5.600	1.73	6.45	1.73	6.45	HS 34.54	62.2
5.700	1.98	5.01	1.98	5.01	HS 39.68	71.4
5.800	2.99	3.98	2.99	3.98	HS 59.76	107.6
5.900	7.57	2.86	7.57	2.86	HS 57.19	102.9
6.000	12.42	1.51	12.42	1.51	HS 30.23	54.4
6.000	12.42	1.51	12.42	1.51	HS 30.23	54.4
6.100	7.42	2.87	7.42	2.87	HS 57.31	103.2
6.200	2.98	3.99	2.98	3.99	HS 59.68	107.4
6.300	1.98	5.02	1.98	5.02	HS 39.57	71.2
6.400	1.72	6.47	1.72	6.47	HS 34.42	62.0
6.500	1.76	8.54	1.76	8.54	HS 35.24	63.4
6.600	1.71	6.44	1.71	6.44	HS 34.28	61.7
6.700	1.96	5.00	1.96	5.00	HS 39.28	70.7
6.800	2.95	3.99	2.95	3.99	HS 58.99	106.2
6.900	7.22	2.85	7.22	2.85	HS 56.98	102.6
7.000	9.44	1.53	9.44	1.53	HS 30.60	55.1

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	9.44	1.53	9.44	1.53	HS 30.60	55.1
7.100	7.24	2.89	7.24	2.89	HS 57.81	104.1
7.200	2.98	4.00	2.98	4.00	HS 59.65	107.4
7.300	1.99	4.98	1.99	4.98	HS 39.73	71.5
7.400	1.74	6.35	1.74	6.35	HS 34.85	62.7
7.500	1.78	6.47	1.78	6.47	HS 35.58	64.0
7.600	1.73	4.74	1.73	4.74	HS 34.56	62.2
7.700	1.97	3.66	1.97	3.66	HS 39.42	71.0
7.800	2.91	2.90	2.91	2.90	HS 57.99	104.4
7.900	8.76	2.24	8.76	2.24	HS 44.74	80.5
8.000	14.19	1.37	14.19	1.37	HS 27.31	49.2
8.000	14.19	1.37	14.19	1.37	HS 27.31	49.2
8.100	8.66	2.83	8.66	2.83	HS 56.54	101.8
8.200	3.04	4.01	3.04	4.01	HS 60.88	109.6
8.300	1.78	4.86	1.78	4.86	HS 35.69	64.2
8.400	1.46	5.90	1.46	5.90	HS 29.28	52.7
8.500	1.29	7.25	1.29	7.25	HS 25.86	46.5
8.600	1.23	9.14	1.23	9.14	HS 24.68	44.4
8.700	1.24	12.10	1.24	12.10	HS 24.88	44.8
8.800	1.50	17.75	1.50	17.75	HS 30.03	54.0
8.900	2.54	34.16	2.54	34.16	HS 50.86	91.5
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	15.2	62.06 L	39.19	47.74	30.15
1.200	2.1	26.0	100.45 L	66.77	77.27	51.36
1.300	2.6	32.4	117.89 L	84.85	90.68	65.27
1.400	2.8	34.4	117.79 L	92.13	90.61	70.87
1.500	2.6	32.1	113.58 L	91.16	87.37	70.12
1.600	2.0	25.2	103.37 L	81.03	79.51	62.33
1.700	1.1	14.0	88.88 L	64.70	68.37	49.77
1.800	-0.2	-1.7	55.44 L	42.24	42.64	32.49
1.900	-1.8	-21.7	-53.85 R	-54.31	-41.42	-41.78
2.000	-3.8	-46.0	-100.91 L	-90.69	-77.62	-69.76
2.000	-3.8	-46.0	-100.91 L	-90.69	-77.62	-69.76
2.100	-2.1	-25.0	-67.67 R	-56.20	-52.06	-43.23
2.200	-0.7	-8.4	59.45 R	40.91	45.73	31.47
2.300	0.3	3.9	83.79 R	60.87	64.45	46.83
2.400	0.9	11.7	92.63 R	72.64	71.26	55.87
2.500	1.2	15.2	88.69 L	77.29	68.22	59.45
2.600	1.1	14.2	90.93 L	72.82	69.95	56.01
2.700	0.7	8.8	81.52 L	61.38	62.71	47.22
2.800	-0.1	-1.0	56.42 L	42.82	43.40	32.94
2.900	-1.3	-15.1	-54.60 L	-50.59	-42.00	-38.91
3.000	-2.8	-33.7	-95.40 L	-84.60	-73.38	-65.08
3.000	-2.8	-33.7	-95.40 L	-84.60	-73.38	-65.08
3.100	-1.2	-14.2	-55.60 R	-50.39	-42.77	-38.76
3.200	0.0	0.8	56.67 R	43.00	43.59	33.08
3.300	0.9	11.5	81.57 R	62.17	62.75	47.83
3.400	1.4	17.8	91.09 R	73.64	70.07	56.65
3.500	1.6	19.7	87.89 L	78.07	67.61	60.06
3.600	1.4	17.1	90.97 L	73.39	69.98	56.45
3.700	0.8	10.1	81.41 L	61.68	62.62	47.45
3.800	-0.1	-1.2	56.45 L	42.78	43.42	32.90
3.900	-1.4	-16.9	-54.66 L	-51.04	-42.05	-39.26
4.000	-3.0	-37.0	-95.00 L	-85.49	-73.08	-65.76

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
4.000	-3.0	-37.0	-95.00 L	-85.49	-73.08	-65.76
4.100	-1.4	-17.2	-54.73 R	-51.14	-42.10	-39.34
4.200	-0.2	-1.7	56.47 R	42.17	43.44	32.44
4.300	0.7	9.5	81.41 R	61.47	62.62	47.28
4.400	1.3	16.2	90.98 R	73.08	69.99	56.22
4.500	1.5	18.6	87.83 L	77.68	67.56	59.75
4.600	1.3	16.5	90.98 L	73.15	69.98	56.27
4.700	0.8	9.9	81.40 L	61.60	62.61	47.38
4.800	-0.1	-1.0	56.45 L	42.85	43.42	32.96
4.900	-1.3	-16.3	-54.67 L	-50.83	-42.05	-39.10
5.000	-2.9	-35.9	-94.97 R	-85.13	-73.06	-65.48
5.000	-2.9	-35.9	-94.97 R	-85.13	-73.06	-65.48
5.100	-1.3	-16.3	-54.67 R	-50.85	-42.05	-39.12
5.200	-0.1	-1.0	56.45 R	42.38	43.42	32.60
5.300	0.8	9.9	81.40 R	61.60	62.61	47.39
5.400	1.3	16.5	90.98 R	73.15	69.98	56.27
5.500	1.5	18.6	87.83 R	77.68	67.56	59.75
5.600	1.3	16.2	90.98 L	73.08	69.99	56.22
5.700	0.7	9.5	81.41 L	61.47	62.62	47.28
5.800	-0.2	-1.7	56.47 L	42.64	43.44	32.80
5.900	-1.4	-17.2	-54.73 L	-51.12	-42.10	-39.32
6.000	-3.0	-37.0	-94.99 L	-85.49	-73.07	-65.76
6.000	-3.0	-37.0	-94.99 L	-85.49	-73.07	-65.76
6.100	-1.4	-16.9	-54.66 R	-51.07	-42.05	-39.28
6.200	-0.1	-1.2	56.45 R	42.30	43.42	32.54
6.300	0.8	10.1	81.41 R	61.68	62.62	47.45
6.400	1.4	17.1	90.97 R	73.39	69.98	56.45
6.500	1.6	19.7	87.89 R	78.07	67.61	60.06
6.600	1.4	17.8	91.09 L	73.64	70.07	56.65
6.700	0.9	11.5	81.57 L	62.17	62.74	47.83
6.800	0.0	0.8	56.67 L	43.47	43.59	33.44
6.900	-1.2	-14.2	-55.60 L	-50.37	-42.77	-38.74
7.000	-2.8	-33.7	-95.28 L	-84.60	-73.29	-65.08

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
7.000	-2.8	-33.7	-95.28 L	-84.60	-73.29	-65.08
7.100	-1.3	-15.1	-54.60 R	-50.61	-42.00	-38.93
7.200	-0.1	-1.0	56.43 R	42.35	43.40	32.58
7.300	0.7	8.8	81.52 R	61.38	62.71	47.22
7.400	1.1	14.2	90.93 R	72.82	69.95	56.01
7.500	1.2	15.2	88.69 R	77.29	68.22	59.45
7.600	0.9	11.7	92.63 L	72.64	71.26	55.87
7.700	0.3	3.9	83.79 L	60.87	64.45	46.82
7.800	-0.7	-8.4	59.45 L	40.91	45.73	31.47
7.900	-2.1	-25.0	-67.67 L	-56.18	-52.05	-43.21
8.000	-3.8	-46.0	-100.87 R	-90.69	-77.59	-69.76
8.000	-3.8	-46.0	-100.87 R	-90.69	-77.59	-69.76
8.100	-1.8	-21.7	-53.85 L	-54.33	-41.42	-41.79
8.200	-0.2	-1.7	55.44 R	41.77	42.64	32.13
8.300	1.1	14.0	88.88 R	64.70	68.37	49.77
8.400	2.0	25.2	103.37 R	81.03	79.51	62.33
8.500	2.6	32.1	113.58 R	91.16	87.37	70.12
8.600	2.8	34.4	117.79 R	92.13	90.61	70.87
8.700	2.6	32.4	117.89 R	84.85	90.68	65.27
8.800	2.1	26.0	100.45 R	66.77	77.27	51.36
8.900	1.2	15.2	62.06 R	39.19	47.74	30.15
9.000	0.0	0.0	0.00 R	0.00	0.00	0.00





2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.100	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
5	3.200	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
0	3.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
8	3.400	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
9	3.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
1	3.600	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
6	3.700	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
3	3.800	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
3	3.900	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

HS20

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
1	4.100	300.6C	268.7	-268.7	-300.6C	319.2	287.2	-250.1	-282.
8	4.200	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8	4.300	300.6C	268.7	-268.7	-300.6C	290.4	258.4	-278.9	-310.
1	4.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
7	4.500	300.6C	268.7	-268.7	-300.6C	280.6	248.6	-288.7	-320.
4	4.600	300.6C	268.7	-268.7	-300.6C	282.9	250.9	-286.4	-318.
3	4.700	300.6C	268.7	-268.7	-300.6C	289.9	258.0	-279.3	-311.
5	4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
0	4.900	300.6C	268.7	-268.7	-300.6C	318.3	286.3	-251.0	-283.
8	5.000	300.6C	268.7	-268.7	-300.6C	339.5	307.5	-229.8	-261.
8	5.000	300.6C	268.7	-268.7	-300.6C	339.5	307.5	-229.8	-261.
0	5.100	300.6C	268.7	-268.7	-300.6C	318.3	286.3	-251.0	-283.
5	5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	5.300	300.6C	268.7	-268.7	-300.6C	289.9	258.0	-279.3	-311.
4	5.400	300.6C	268.7	-268.7	-300.6C	282.9	250.9	-286.4	-318.
7	5.500	300.6C	268.7	-268.7	-300.6C	280.6	248.6	-288.7	-320.
1	5.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
8	5.700	300.6C	268.7	-268.7	-300.6C	290.4	258.4	-278.9	-310.
8	5.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
1	5.900	300.6C	268.7	-268.7	-300.6C	319.2	287.2	-250.1	-282.

6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
3	6.100	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
3	6.200	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
1	6.400	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
9	6.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
8	6.600	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
0	6.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
5	6.800	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
2	6.900	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
2	7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	HS 999.00 999.0
1.100	4.58	54.86	4.07	61.01	HS 81.30 146.3
1.200	2.71	28.55	2.39	31.63	HS 47.90 86.2
1.300	2.25	19.48	1.98	21.53	HS 39.64 71.4
1.400	2.24	14.72	1.97	16.25	HS 39.30 70.7
1.500	2.34	11.67	2.06	12.90	HS 41.20 74.2
1.600	2.64	9.49	2.34	10.52	HS 46.71 84.1
1.700	3.21	7.80	2.85	8.68	HS 57.06 102.7
1.800	5.46	6.42	4.88	7.19	HS 97.58 175.6
1.900	15.74	4.51	14.19	5.10	HS 90.30 162.5
2.000	25.17	2.17	22.87	2.49	HS 43.38 78.1
2.000	25.17	2.17	22.87	2.49	HS 43.38 78.1
2.100	15.32	3.57	13.82	4.04	HS 71.39 128.5
2.200	5.21	4.64	4.67	5.21	HS 92.80 167.0
2.300	3.54	5.88	3.16	6.56	HS 63.14 113.7
2.400	3.11	7.62	2.76	8.48	HS 55.27 99.5
2.500	3.20	10.39	2.84	11.56	HS 56.88 102.4
2.600	3.14	10.20	2.79	11.35	HS 55.72 100.3
2.700	3.57	7.99	3.18	8.91	HS 63.59 114.5
2.800	5.35	6.41	4.78	7.17	HS 95.61 172.1
2.900	13.14	4.62	11.81	5.21	HS 92.41 166.3
3.000	16.79	2.43	15.19	2.77	HS 48.69 87.6
3.000	16.79	2.43	15.19	2.77	HS 48.69 87.6
3.100	12.69	4.55	11.40	5.13	HS 91.09 164.0
3.200	5.29	6.39	4.73	7.15	HS 94.52 170.1
3.300	3.53	8.03	3.14	8.95	HS 62.83 113.1
3.400	3.09	10.34	2.74	11.49	HS 54.77 98.6
3.500	3.18	13.72	2.82	15.24	HS 56.29 101.3
3.600	3.10	10.40	2.75	11.56	HS 55.00 99.0
3.700	3.56	8.06	3.17	8.98	HS 63.32 114.0
3.800	5.35	6.40	4.78	7.16	HS 95.66 172.2
3.900	13.47	4.58	12.12	5.16	HS 91.59 164.9
4.000	22.07	2.41	20.00	2.74	HS 48.12 86.6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	+bend	-bend		
4.000	22.07	2.41	20.00	2.74	HS 48.12	86.6
4.100	13.29	4.57	11.96	5.15	HS 91.38	164.5
4.200	5.36	6.38	4.79	7.15	HS 95.80	172.4
4.300	3.57	8.03	3.17	8.96	HS 63.49	114.3
4.400	3.11	10.37	2.76	11.52	HS 55.21	99.4
4.500	3.19	13.53	2.83	15.03	HS 56.60	101.9
4.600	3.11	10.38	2.76	11.54	HS 55.16	99.3
4.700	3.56	8.05	3.17	8.98	HS 63.38	114.1
4.800	5.34	6.40	4.78	7.17	HS 95.57	172.0
4.900	13.32	4.59	11.98	5.18	HS 91.84	165.3
5.000	21.64	2.42	19.60	2.76	HS 48.39	87.1
5.000	21.64	2.42	19.60	2.76	HS 48.39	87.1
5.100	13.10	4.59	11.78	5.18	HS 91.84	165.3
5.200	5.34	6.40	4.78	7.17	HS 95.57	172.0
5.300	3.56	8.05	3.17	8.98	HS 63.38	114.1
5.400	3.11	10.38	2.76	11.54	HS 55.16	99.3
5.500	3.19	13.53	2.83	15.03	HS 56.60	101.9
5.600	3.11	10.37	2.76	11.52	HS 55.21	99.4
5.700	3.57	8.03	3.17	8.96	HS 63.49	114.3
5.800	5.36	6.38	4.79	7.15	HS 95.80	172.4
5.900	13.52	4.57	12.16	5.15	HS 91.38	164.5
6.000	22.07	2.41	20.00	2.74	HS 48.13	86.6
6.000	22.07	2.41	20.00	2.74	HS 48.13	86.6
6.100	13.25	4.58	11.92	5.16	HS 91.59	164.9
6.200	5.35	6.40	4.78	7.16	HS 95.66	172.2
6.300	3.56	8.06	3.17	8.98	HS 63.32	114.0
6.400	3.10	10.40	2.75	11.56	HS 55.00	99.0
6.500	3.18	13.72	2.82	15.24	HS 56.29	101.3
6.600	3.09	10.34	2.74	11.49	HS 54.77	98.6
6.700	3.53	8.03	3.14	8.95	HS 62.83	113.1
6.800	5.29	6.39	4.73	7.15	HS 94.52	170.1
6.900	12.89	4.55	11.59	5.13	HS 91.09	164.0
7.000	16.79	2.44	15.19	2.77	HS 48.74	87.7

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	16.79	2.44	15.19	2.77	HS 48.74	87.7
7.100	12.93	4.62	11.62	5.21	HS 92.41	166.3
7.200	5.35	6.41	4.78	7.17	HS 95.61	172.1
7.300	3.57	7.99	3.18	8.91	HS 63.59	114.5
7.400	3.14	10.20	2.79	11.35	HS 55.72	100.3
7.500	3.20	10.39	2.84	11.56	HS 56.88	102.4
7.600	3.11	7.62	2.76	8.48	HS 55.27	99.5
7.700	3.54	5.88	3.16	6.56	HS 63.14	113.7
7.800	5.21	4.64	4.67	5.21	HS 92.80	167.0
7.900	15.61	3.57	14.09	4.04	HS 71.39	128.5
8.000	25.17	2.17	22.87	2.49	HS 43.39	78.1
8.000	25.17	2.17	22.87	2.49	HS 43.39	78.1
8.100	15.45	4.51	13.92	5.10	HS 90.27	162.5
8.200	5.46	6.42	4.88	7.19	HS 97.58	175.6
8.300	3.21	7.80	2.85	8.68	HS 57.06	102.7
8.400	2.64	9.49	2.34	10.52	HS 46.71	84.1
8.500	2.34	11.67	2.06	12.90	HS 41.20	74.2
8.600	2.24	14.72	1.97	16.25	HS 39.30	70.7
8.700	2.25	19.48	1.98	21.53	HS 39.64	71.4
8.800	2.71	28.55	2.39	31.63	HS 47.90	86.2
8.900	4.58	54.86	4.07	61.01	HS 81.30	146.3
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
1.000	0.6	7.3	31.19	24.40	24.00	18.77
1.100	0.4	5.4	25.95	20.89	19.96	16.07
1.200	0.3	3.6	21.00	17.56	16.15	13.51
1.300	0.1	1.8	16.43	14.43	12.64	11.10
1.400	0.0	-0.1	12.31	11.52	9.47	8.86
1.500	-0.2	-1.9	-15.37	-13.95	-11.82	-10.73
1.600	-0.3	-3.8	-18.34	-16.67	-14.11	-12.83
1.700	-0.5	-5.6	-22.80	-19.32	-17.54	-14.86
1.800	-0.6	-7.4	-27.72	-21.85	-21.32	-16.81
1.900	-0.8	-9.3	-32.21	-24.21	-24.77	-18.62
2.000	-0.9	-11.1	-36.19	-26.36	-27.84	-20.28
2.000	0.8	-11.1	33.50	26.13	25.77	20.10
2.100	0.6	7.9	29.37	23.54	22.59	18.11
2.200	0.5	6.0	24.68	20.73	18.98	15.95
2.300	0.3	4.2	20.51	17.81	15.77	13.70
2.400	0.2	2.4	17.12	14.86	13.17	11.43
2.500	0.0	0.6	-13.52	11.97	-10.40	9.21
2.600	-0.1	-1.4	-17.02	-14.82	-13.09	-11.40
2.700	-0.3	-3.2	-20.39	-17.75	-15.68	-13.65
2.800	-0.4	-5.0	-24.99	-20.63	-19.22	-15.87
2.900	-0.6	-6.8	-29.62	-23.37	-22.79	-17.97
3.000	-0.7	-8.7	-33.97	-25.86	-26.13	-19.89
3.000	0.7	9.0	33.80	25.99	26.00	20.00
3.100	0.6	7.2	29.42	23.47	22.63	18.05
3.200	0.4	5.4	24.77	20.70	19.05	15.92
3.300	0.3	3.5	20.31	17.79	15.63	13.69
3.400	0.1	1.7	16.93	14.84	13.02	11.41
3.500	0.0	-0.1	13.39	-12.04	10.30	-9.26
3.600	-0.2	-2.0	-16.92	-14.95	-13.02	-11.50
3.700	-0.3	-3.8	-20.31	-17.90	-15.62	-13.77
3.800	-0.5	-5.7	-24.79	-20.80	-19.07	-16.00
3.900	-0.6	-7.5	-29.44	-23.57	-22.64	-18.13
4.000	-0.8	-9.3	-33.81	-26.09	-26.01	-20.07

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
4.000	0.7	-9.3	33.80	26.06	26.00	20.04
4.100	0.6	7.4	29.42	23.54	22.63	18.10
4.200	0.5	5.6	24.77	20.77	19.06	15.98
4.300	0.3	3.7	20.30	17.86	15.62	13.74
4.400	0.2	1.9	16.91	14.91	13.01	11.47
4.500	0.0	0.1	13.38	12.00	10.29	9.23
4.600	-0.1	-1.8	-16.91	-14.88	-13.01	-11.45
4.700	-0.3	-3.6	-20.30	-17.84	-15.62	-13.72
4.800	-0.4	-5.5	-24.77	-20.74	-19.06	-15.96
4.900	-0.6	-7.3	-29.42	-23.51	-22.63	-18.08
5.000	-0.7	-9.1	-33.80	-26.03	-26.00	-20.02
5.000	0.7	9.1	33.80	26.03	26.00	20.02
5.100	0.6	7.3	29.42	23.51	22.63	18.08
5.200	0.4	5.5	24.77	20.74	19.06	15.96
5.300	0.3	3.6	20.30	17.84	15.62	13.72
5.400	0.1	1.8	16.91	14.88	13.01	11.45
5.500	0.0	-0.1	13.38	-12.00	10.29	-9.23
5.600	-0.2	-1.9	-16.91	-14.91	-13.01	-11.47
5.700	-0.3	-3.7	-20.30	-17.86	-15.62	-13.74
5.800	-0.5	-5.6	-24.77	-20.77	-19.06	-15.98
5.900	-0.6	-7.4	-29.42	-23.54	-22.63	-18.10
6.000	-0.7	-9.2	-33.80	-26.06	-26.00	-20.04
6.000	0.8	9.3	33.81	26.09	26.01	20.07
6.100	0.6	7.5	29.44	23.57	22.64	18.13
6.200	0.5	5.7	24.79	20.80	19.07	16.00
6.300	0.3	3.8	20.31	17.90	15.62	13.77
6.400	0.2	2.0	16.92	14.95	13.02	11.50
6.500	0.0	0.2	13.39	12.04	10.30	9.26
6.600	-0.1	-1.7	-16.93	-14.84	-13.02	-11.41
6.700	-0.3	-3.5	-20.31	-17.79	-15.63	-13.69
6.800	-0.4	-5.4	-24.77	-20.70	-19.05	-15.92
6.900	-0.6	-7.2	-29.42	-23.47	-22.63	-18.05
7.000	-0.7	-9.0	-33.80	-25.99	-26.00	-20.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-9.0	33.97	25.86	26.13	19.89
7.100	0.6	6.8	29.62	23.37	22.79	17.97
7.200	0.4	5.0	24.99	20.63	19.22	15.87
7.300	0.3	3.2	20.39	17.75	15.68	13.65
7.400	0.1	1.4	17.02	14.82	13.09	11.40
7.500	0.0	-0.5	13.52	-11.97	10.40	-9.21
7.600	-0.2	-2.4	-17.12	-14.86	-13.17	-11.43
7.700	-0.3	-4.2	-20.51	-17.81	-15.77	-13.70
7.800	-0.5	-6.0	-24.68	-20.73	-18.98	-15.95
7.900	-0.6	-7.9	-29.37	-23.54	-22.59	-18.11
8.000	-0.8	-9.7	-33.82	-26.13	-26.01	-20.10
8.000	0.9	11.1	36.19	26.36	27.84	20.28
8.100	0.8	9.3	32.21	24.21	24.77	18.62
8.200	0.6	7.4	27.72	21.85	21.32	16.81
8.300	0.5	5.6	22.80	19.32	17.54	14.86
8.400	0.3	3.8	18.34	16.67	14.11	12.83
8.500	0.2	1.9	15.37	13.95	11.82	10.73
8.600	0.0	0.1	-12.31	-11.52	-9.47	-8.86
8.700	-0.1	-1.8	-16.43	-14.43	-12.64	-11.10
8.800	-0.3	-3.6	-21.00	-17.56	-16.15	-13.51
8.900	-0.4	-5.4	-25.95	-20.89	-19.96	-16.07
9.000	-0.6	-7.3	-31.19	-24.40	-24.00	-18.77

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-124.2	108.5
1.100	151.3	-122.2	110.5
1.200	151.3	-120.3	112.5
1.300	151.3	-118.3	114.5
1.400	151.3	-116.3	116.4
1.500	151.3	-114.3	118.4
1.600	151.3	-112.3	120.5
1.700	151.3	-110.3	122.4
1.800	151.3	-108.3	124.4
1.900	151.3	-106.3	126.4
2.000	151.3	-104.4	128.4
2.000	151.3	-104.4	105.9
2.100	151.3	-124.9	107.9
2.200	151.3	-122.9	109.8
2.300	151.3	-120.9	111.8
2.400	151.3	-118.9	113.8
2.500	151.3	-117.0	115.8
2.600	151.3	-114.9	117.8
2.700	151.3	-112.9	119.8
2.800	151.3	-111.0	121.8
2.900	151.3	-109.0	123.8
3.000	151.3	-107.0	117.1
3.000	151.3	-107.0	106.6
3.100	151.3	-124.2	108.6
3.200	151.3	-122.2	110.6
3.300	151.3	-120.2	112.5
3.400	151.3	-118.2	114.5
3.500	151.3	-116.3	116.5
3.600	151.3	-114.2	118.5
3.700	151.3	-112.2	120.5
3.800	151.3	-110.3	122.5
3.900	151.3	-108.3	124.5
4.000	151.3	-106.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-106.3	106.4
4.100	151.3	-124.4	108.4
4.200	151.3	-122.4	110.4
4.300	151.3	-120.4	112.3
4.400	151.3	-118.4	114.3
4.500	151.3	-116.5	116.3
4.600	151.3	-114.4	118.3
4.700	151.3	-112.4	120.3
4.800	151.3	-110.5	122.3
4.900	151.3	-108.5	124.3
5.000	151.3	-106.5	117.1
5.000	151.3	-106.5	106.5
5.100	151.3	-124.3	108.5
5.200	151.3	-122.3	110.5
5.300	151.3	-120.3	112.4
5.400	151.3	-118.3	114.4
5.500	151.3	-116.4	116.4
5.600	151.3	-114.3	118.4
5.700	151.3	-112.3	120.4
5.800	151.3	-110.4	122.4
5.900	151.3	-108.4	124.4
6.000	151.3	-106.4	117.1
6.000	151.3	-106.4	106.3
6.100	151.3	-124.5	108.3
6.200	151.3	-122.5	110.3
6.300	151.3	-120.5	112.2
6.400	151.3	-118.5	114.2
6.500	151.3	-116.6	116.2
6.600	151.3	-114.5	118.2
6.700	151.3	-112.5	120.2
6.800	151.3	-110.6	122.2
6.900	151.3	-108.6	124.2
7.000	151.3	-106.6	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-106.6	107.0
7.100	151.3	-123.8	109.0
7.200	151.3	-121.8	111.0
7.300	151.3	-119.8	112.9
7.400	151.3	-117.8	114.9
7.500	151.3	-115.8	116.9
7.600	151.3	-113.8	118.9
7.700	151.3	-111.8	120.9
7.800	151.3	-109.8	122.9
7.900	151.3	-107.9	124.9
8.000	151.3	-105.9	117.2
8.000	151.3	-105.9	104.4
8.100	151.3	-126.4	106.3
8.200	151.3	-124.4	108.3
8.300	151.3	-122.4	110.3
8.400	151.3	-120.5	112.3
8.500	151.3	-118.5	114.3
8.600	151.3	-116.4	116.3
8.700	151.3	-114.5	118.3
8.800	151.3	-112.5	120.3
8.900	151.3	-110.5	122.2
9.000	151.3	-108.5	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	58.54	3.48	HS 69.58	125.2
1.100	39.22	4.26	HS 85.18	153.3
1.200	20.12	5.36	HS 107.13	192.8
1.300	13.33	6.97	HS 139.34	250.8
1.400	9.81	9.46	HS 189.14	340.5
1.500	7.44	12.47	HS 148.78	267.8
1.600	6.12	18.19	HS 122.41	220.3
1.700	4.84	27.69	HS 96.75	174.2
1.800	3.91	46.74	HS 78.15	140.7
1.900	3.30	102.10	HS 66.04	118.9
2.000	2.88	225.92	HS 57.68	103.8
2.000	2.88	3.16	HS 57.68	103.8
2.100	43.25	3.67	HS 73.45	132.2
2.200	28.64	4.45	HS 89.02	160.2
2.300	18.36	5.45	HS 109.07	196.3
2.400	12.46	6.65	HS 132.93	239.3
2.500	8.65	8.59	HS 171.74	309.1
2.600	6.75	12.56	HS 135.07	243.1
2.700	5.54	17.86	HS 110.78	199.4
2.800	4.44	27.19	HS 88.82	159.9
2.900	3.68	31.15	HS 73.58	132.4
3.000	3.15	29.47	HS 63.00	113.4
3.000	3.15	3.15	HS 63.00	113.4
3.100	38.84	3.69	HS 73.82	132.9
3.200	27.48	4.46	HS 89.28	160.7
3.300	17.91	5.54	HS 110.79	199.4
3.400	12.60	6.76	HS 135.29	243.5
3.500	8.68	8.70	HS 173.61	312.5
3.600	6.75	12.65	HS 134.99	243.0
3.700	5.53	18.23	HS 110.54	199.0
3.800	4.45	28.16	HS 88.95	160.1
3.900	3.68	39.55	HS 73.56	132.4
4.000	3.14	37.72	HS 62.88	113.2

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.14	3.15	HS 62.88	113.2
4.100	39.53	3.68	HS 73.67	132.6
4.200	27.91	4.45	HS 89.09	160.4
4.300	18.11	5.53	HS 110.67	199.2
4.400	12.64	6.76	HS 135.16	243.3
4.500	8.70	8.69	HS 173.79	312.8
4.600	6.76	12.63	HS 135.29	243.5
4.700	5.54	18.02	HS 110.77	199.4
4.800	4.46	27.71	HS 89.17	160.5
4.900	3.69	39.10	HS 73.73	132.7
5.000	3.15	37.35	HS 63.02	113.4
5.000	3.15	3.15	HS 63.02	113.4
5.100	39.10	3.69	HS 73.73	132.7
5.200	27.71	4.46	HS 89.17	160.5
5.300	18.02	5.54	HS 110.77	199.4
5.400	12.63	6.76	HS 135.29	243.5
5.500	8.69	8.70	HS 173.89	313.0
5.600	6.76	12.64	HS 135.16	243.3
5.700	5.53	18.11	HS 110.67	199.2
5.800	4.45	27.91	HS 89.09	160.4
5.900	3.68	39.53	HS 73.67	132.6
6.000	3.15	37.73	HS 62.96	113.3
6.000	3.15	3.14	HS 62.88	113.2
6.100	39.55	3.68	HS 73.56	132.4
6.200	28.16	4.45	HS 88.95	160.1
6.300	18.23	5.53	HS 110.54	199.0
6.400	12.65	6.75	HS 134.99	243.0
6.500	8.70	8.68	HS 173.52	312.3
6.600	6.76	12.60	HS 135.29	243.5
6.700	5.54	17.91	HS 110.79	199.4
6.800	4.46	27.48	HS 89.28	160.7
6.900	3.69	38.84	HS 73.82	132.9
7.000	3.15	37.12	HS 63.08	113.5



## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.15	3.15	HS 63.00	113.4
7.100	32.63	3.68	HS 73.58	132.4
7.200	27.19	4.44	HS 88.82	159.9
7.300	17.86	5.54	HS 110.78	199.4
7.400	12.56	6.75	HS 135.07	243.1
7.500	8.59	8.64	HS 171.83	309.3
7.600	6.65	12.46	HS 132.93	239.3
7.700	5.45	18.36	HS 109.07	196.3
7.800	4.45	28.64	HS 89.02	160.2
7.900	3.67	42.90	HS 73.45	132.2
8.000	3.13	40.25	HS 62.63	112.7
8.000	3.13	2.88	HS 57.68	103.8
8.100	102.10	3.30	HS 66.04	118.9
8.200	46.74	3.91	HS 78.15	140.7
8.300	27.69	4.84	HS 96.75	174.2
8.400	18.19	6.12	HS 122.41	220.3
8.500	12.47	7.43	HS 148.69	267.6
8.600	9.46	9.81	HS 189.14	340.5
8.700	6.97	13.33	HS 139.34	250.8
8.800	5.36	20.12	HS 107.13	192.8
8.900	4.26	39.22	HS 85.18	153.3
9.000	3.48	55.12	HS 69.58	125.2







6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.100 61.1	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
6.200 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
6.300 90.3	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
6.400 97.9	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
6.500 00.7	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
6.600 98.6	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
6.700 91.8	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
6.800 80.2	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
6.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
7.100 63.0	279.4	279.4	-279.4	-279.4	295.8	295.8	-263.0	-2
7.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
7.300 88.9	279.4	279.4	-279.4	-279.4	269.9	269.9	-288.9	-2
7.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
7.500 95.8	279.4	279.4	-279.4	-279.4	263.0	263.0	-295.8	-2
7.600 92.0	279.4	279.4	-279.4	-279.4	266.8	266.8	-292.0	-2
7.700 83.5	279.4	279.4	-279.4	-279.4	275.3	275.3	-283.5	-2
7.800 70.3	279.4	279.4	-279.4	-279.4	288.5	288.5	-270.3	-2
7.900 52.3	279.4	279.4	-279.4	-279.4	306.5	306.5	-252.3	-2
8.000 29.6	279.4	279.4	-279.4	-279.4	329.2	329.2	-229.6	-2
8.000 29.6	279.4	279.4	-279.4	-279.4	329.2	329.2	-229.6	-2
8.100 56.0	279.4	279.4	-279.4	-279.4	302.8	302.8	-256.0	-2
8.200 77.6	279.4	279.4	-279.4	-279.4	281.2	281.2	-277.6	-2
8.300 94.5	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
8.400 06.6	279.4	279.4	-279.4	-279.4	252.2	252.2	-306.6	-3
8.500 14.0	279.4	279.4	-279.4	-279.4	244.8	244.8	-314.0	-3
8.600 16.6	279.4	279.4	-279.4	-279.4	242.2	242.2	-316.6	-3
8.700 14.4	279.4	279.4	-279.4	-279.4	244.4	244.4	-314.4	-3
8.800 07.5	279.4	279.4	-279.4	-279.4	251.3	251.3	-307.5	-3
8.900 95.8	279.4	279.4	-279.4	-279.4	263.0	263.0	-295.8	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	4.24	56.93	4.24	56.93	HS 84.76	152.6
1.200	2.50	29.59	2.50	29.59	HS 50.04	90.1
1.300	2.07	20.17	2.07	20.17	HS 41.47	74.6
1.400	2.06	15.23	2.06	15.23	HS 41.13	74.0
1.500	2.15	12.09	2.15	12.09	HS 43.10	77.6
1.600	2.44	9.84	2.44	9.84	HS 48.79	87.8
1.700	2.97	8.10	2.97	8.10	HS 59.48	107.1
1.800	5.07	6.68	5.07	6.68	HS 101.46	182.6
1.900	14.71	4.71	14.71	4.71	HS 94.26	169.7
2.000	23.65	2.28	23.65	2.28	HS 45.51	81.9
2.000	23.65	2.28	23.65	2.28	HS 45.51	81.9
2.100	14.33	3.73	14.33	3.73	HS 74.57	134.2
2.200	4.85	4.83	4.85	4.83	HS 96.65	174.0
2.300	3.29	6.11	3.29	6.11	HS 65.71	118.3
2.400	2.88	7.91	2.88	7.91	HS 57.59	103.7
2.500	2.96	10.78	2.96	10.78	HS 59.30	106.7
2.600	2.90	10.58	2.90	10.58	HS 58.08	104.5
2.700	3.31	8.30	3.31	8.30	HS 66.22	119.2
2.800	4.97	6.66	4.97	6.66	HS 99.42	179.0
2.900	12.26	4.82	12.26	4.82	HS 96.35	173.4
3.000	15.73	2.55	15.73	2.55	HS 50.94	91.7
3.000	15.73	2.55	15.73	2.55	HS 50.94	91.7
3.100	11.84	4.75	11.84	4.75	HS 94.96	170.9
3.200	4.92	6.65	4.92	6.65	HS 98.31	177.0
3.300	3.27	8.34	3.27	8.34	HS 65.47	117.8
3.400	2.86	10.73	2.86	10.73	HS 57.13	102.8
3.500	2.94	14.23	2.94	14.23	HS 58.74	105.7
3.600	2.87	10.79	2.87	10.79	HS 57.36	103.3
3.700	3.30	8.37	3.30	8.37	HS 65.96	118.7
3.800	4.97	6.66	4.97	6.66	HS 99.46	179.0
3.900	12.57	4.78	12.57	4.78	HS 95.52	171.9
4.000	20.69	2.52	20.69	2.52	HS 50.38	90.7



## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	20.69	2.52	20.69	2.52	HS 50.38	90.7
4.100	12.41	4.76	12.41	4.76	HS 95.31	171.6
4.200	4.98	6.64	4.98	6.64	HS 99.61	179.3
4.300	3.31	8.34	3.31	8.34	HS 66.13	119.0
4.400	2.88	10.76	2.88	10.76	HS 57.57	103.6
4.500	2.95	14.03	2.95	14.03	HS 59.05	106.3
4.600	2.88	10.77	2.88	10.77	HS 57.52	103.5
4.700	3.30	8.36	3.30	8.36	HS 66.02	118.8
4.800	4.97	6.66	4.97	6.66	HS 99.37	178.9
4.900	12.43	4.79	12.43	4.79	HS 95.77	172.4
5.000	20.28	2.53	20.28	2.53	HS 50.65	91.2
5.000	20.28	2.53	20.28	2.53	HS 50.65	91.2
5.100	12.23	4.79	12.23	4.79	HS 95.77	172.4
5.200	4.97	6.66	4.97	6.66	HS 99.37	178.9
5.300	3.30	8.36	3.30	8.36	HS 66.02	118.8
5.400	2.88	10.77	2.88	10.77	HS 57.52	103.5
5.500	2.95	14.04	2.95	14.04	HS 59.05	106.3
5.600	2.88	10.76	2.88	10.76	HS 57.57	103.6
5.700	3.31	8.34	3.31	8.34	HS 66.13	119.0
5.800	4.98	6.64	4.98	6.64	HS 99.61	179.3
5.900	12.62	4.77	12.62	4.77	HS 95.31	171.6
6.000	20.69	2.52	20.69	2.52	HS 50.39	90.7
6.000	20.69	2.52	20.69	2.52	HS 50.39	90.7
6.100	12.37	4.78	12.37	4.78	HS 95.52	171.9
6.200	4.97	6.66	4.97	6.66	HS 99.46	179.0
6.300	3.30	8.37	3.30	8.37	HS 65.96	118.7
6.400	2.87	10.79	2.87	10.79	HS 57.36	103.3
6.500	2.94	14.23	2.94	14.23	HS 58.74	105.7
6.600	2.86	10.73	2.86	10.73	HS 57.13	102.8
6.700	3.27	8.34	3.27	8.34	HS 65.47	117.8
6.800	4.92	6.65	4.92	6.65	HS 98.31	177.0
6.900	12.02	4.75	12.02	4.75	HS 94.96	170.9
7.000	15.73	2.55	15.73	2.55	HS 51.00	91.8

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	15.73	2.55	15.73	2.55	HS 51.00	91.8
7.100	12.06	4.82	12.06	4.82	HS 96.34	173.4
7.200	4.97	6.66	4.97	6.66	HS 99.42	179.0
7.300	3.31	8.30	3.31	8.30	HS 66.22	119.2
7.400	2.90	10.58	2.90	10.58	HS 58.08	104.5
7.500	2.96	10.78	2.96	10.78	HS 59.30	106.7
7.600	2.88	7.91	2.88	7.91	HS 57.59	103.7
7.700	3.29	6.11	3.29	6.11	HS 65.71	118.3
7.800	4.85	4.83	4.85	4.83	HS 96.65	174.0
7.900	14.60	3.73	14.60	3.73	HS 74.57	134.2
8.000	23.64	2.28	23.64	2.28	HS 45.52	81.9
8.000	23.64	2.28	23.64	2.28	HS 45.52	81.9
8.100	14.43	4.71	14.43	4.71	HS 94.23	169.6
8.200	5.07	6.68	5.07	6.68	HS 101.46	182.6
8.300	2.97	8.10	2.97	8.10	HS 59.48	107.1
8.400	2.44	9.84	2.44	9.84	HS 48.79	87.8
8.500	2.15	12.09	2.15	12.09	HS 43.10	77.6
8.600	2.06	15.23	2.06	15.23	HS 41.13	74.0
8.700	2.07	20.17	2.07	20.17	HS 41.47	74.6
8.800	2.50	29.59	2.50	29.59	HS 50.04	90.1
8.900	4.24	56.93	4.24	56.93	HS 84.76	152.6
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	15.2	37.81 R	0.00	29.09	0.00
1.200	2.1	26.0	63.17 R	0.00	48.59	0.00
1.300	2.6	32.4	76.94 R	0.00	59.18	0.00
1.400	2.8	34.4	80.34 R	0.00	61.80	0.00
1.500	2.6	32.1	76.34 L	0.00	58.72	0.00
1.600	2.0	25.2	71.28 L	0.00	54.83	0.00
1.700	1.1	14.0	57.25 L	0.00	44.04	0.00
1.800	-0.2	-1.7	36.13 L	0.00	27.79	0.00
1.900	-1.8	-21.7	-31.44 R	0.00	-24.18	0.00
2.000	-3.8	-46.0	-46.29 L	0.00	-35.61	0.00
2.000	-3.8	-46.0	-46.29 L	0.00	-35.61	0.00
2.100	-2.1	-25.0	-40.42 L	0.00	-31.10	0.00
2.200	-0.7	-8.4	38.43 R	0.00	29.56	0.00
2.300	0.3	3.9	55.29 R	0.00	42.53	0.00
2.400	0.9	11.7	64.11 R	0.00	49.32	0.00
2.500	1.2	15.2	64.71 L	0.00	49.77	0.00
2.600	1.1	14.2	63.46 L	0.00	48.82	0.00
2.700	0.7	8.8	53.88 L	0.00	41.44	0.00
2.800	-0.1	-1.0	36.49 L	0.00	28.07	0.00
2.900	-1.3	-15.1	-32.76 R	0.00	-25.20	0.00
3.000	-2.8	-33.7	-38.26 L	0.00	-29.43	0.00
3.000	-2.8	-33.7	-38.26 L	0.00	-29.43	0.00
3.100	-1.2	-14.2	-33.41 L	0.00	-25.70	0.00
3.200	0.0	0.8	36.65 R	0.00	28.19	0.00
3.300	0.9	11.5	53.74 R	0.00	41.34	0.00
3.400	1.4	17.8	62.95 R	0.00	48.42	0.00
3.500	1.6	19.7	63.87 L	0.00	49.13	0.00
3.600	1.4	17.1	62.90 L	0.00	48.38	0.00
3.700	0.8	10.1	53.64 L	0.00	41.26	0.00
3.800	-0.1	-1.2	36.51 L	0.00	28.09	0.00
3.900	-1.4	-16.9	-32.86 R	0.00	-25.27	0.00
4.000	-3.0	-37.0	-37.68 L	0.00	-28.98	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-37.0	-37.68 L	0.00
4.100	-1.4	-17.2	-32.90 L	0.00
4.200	-0.2	-1.7	36.52 R	0.00
4.300	0.7	9.5	53.63 R	0.00
4.400	1.3	16.2	62.86 R	0.00
4.500	1.5	18.6	63.81 L	0.00
4.600	1.3	16.5	62.86 L	0.00
4.700	0.8	9.9	53.62 L	0.00
4.800	-0.1	-1.0	36.51 L	0.00
4.900	-1.3	-16.3	-32.87 R	0.00
5.000	-2.9	-35.9	-37.64 L	0.00
5.000	-2.9	-35.9	-37.64 L	0.00
5.100	-1.3	-16.3	-32.87 L	0.00
5.200	-0.1	-1.0	36.51 R	0.00
5.300	0.8	9.9	53.62 R	0.00
5.400	1.3	16.5	62.86 R	0.00
5.500	1.5	18.6	63.81 R	0.00
5.600	1.3	16.2	62.86 L	0.00
5.700	0.7	9.5	53.63 L	0.00
5.800	-0.2	-1.7	36.52 L	0.00
5.900	-1.4	-17.2	-32.90 R	0.00
6.000	-3.0	-37.0	-37.68 R	0.00
6.000	-3.0	-37.0	-37.68 R	0.00
6.100	-1.4	-16.9	-32.86 L	0.00
6.200	-0.1	-1.2	36.51 R	0.00
6.300	0.8	10.1	53.64 R	0.00
6.400	1.4	17.1	62.90 R	0.00
6.500	1.6	19.7	63.87 R	0.00
6.600	1.4	17.8	62.95 L	0.00
6.700	0.9	11.5	53.74 L	0.00
6.800	0.0	0.8	36.65 L	0.00
6.900	-1.2	-14.2	-33.41 R	0.00
7.000	-2.8	-33.7	-38.26 R	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
7.000	-2.8	-33.7	-38.26	R	0.00	0.00
7.100	-1.3	-15.1	-32.76	L	0.00	0.00
7.200	-0.1	-1.0	36.49	R	0.00	0.00
7.300	0.7	8.8	53.88	R	0.00	0.00
7.400	1.1	14.2	63.46	R	0.00	0.00
7.500	1.2	15.2	64.71	R	0.00	0.00
7.600	0.9	11.7	64.11	L	0.00	0.00
7.700	0.3	3.9	55.29	L	0.00	0.00
7.800	-0.7	-8.4	38.43	L	0.00	0.00
7.900	-2.1	-25.0	-40.42	R	0.00	0.00
8.000	-3.8	-46.0	-46.29	R	0.00	0.00
8.000	-3.8	-46.0	-46.29	R	0.00	0.00
8.100	-1.8	-21.7	-31.44	L	0.00	0.00
8.200	-0.2	-1.7	36.13	R	0.00	0.00
8.300	1.1	14.0	57.25	R	0.00	0.00
8.400	2.0	25.2	71.28	R	0.00	0.00
8.500	2.6	32.1	76.34	R	0.00	0.00
8.600	2.8	34.4	80.34	L	0.00	0.00
8.700	2.6	32.4	76.94	L	0.00	0.00
8.800	2.1	26.0	63.17	L	0.00	0.00
8.900	1.2	15.2	37.81	L	0.00	0.00
9.000	0.0	0.0	0.00	R	0.00	0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

2F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
. 1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6 1.100	300.6C	268.7	-268.7	-300.6C	284.2	252.3	-285.0	-317.
0 1.200	300.6C	268.7	-268.7	-300.6C	272.6	240.6	-296.7	-328.
7 1.300	300.6C	268.7	-268.7	-300.6C	265.7	233.7	-303.6	-335.
6 1.400	300.6C	268.7	-268.7	-300.6C	263.5	231.5	-305.8	-337.
8 1.500	300.6C	268.7	-268.7	-300.6C	266.0	234.0	-303.3	-335.
3 1.600	300.6C	268.7	-268.7	-300.6C	273.4	241.4	-295.9	-327.
9 1.700	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
7 1.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8 1.900	300.6C	268.7	-268.7	-300.6C	324.1	292.1	-245.2	-277.
2 2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8 2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
6 2.100	300.6C	268.7	-268.7	-300.6C	327.7	295.7	-241.6	-273.
5 2.200	300.6C	268.7	-268.7	-300.6C	309.7	277.8	-259.5	-291.
8 2.300	300.6C	268.7	-268.7	-300.6C	296.5	264.5	-272.8	-304.
3 2.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
1 2.500	300.6C	268.7	-268.7	-300.6C	284.2	252.2	-285.1	-317.
0 2.600	300.6C	268.7	-268.7	-300.6C	285.3	253.3	-284.0	-316.
1 2.700	300.6C	268.7	-268.7	-300.6C	291.2	259.2	-278.1	-310.
5 2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
2 2.900	300.6C	268.7	-268.7	-300.6C	317.0	285.1	-252.3	-284.

2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.100	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
5	3.200	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
0	3.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
8	3.400	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
9	3.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
1	3.600	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
6	3.700	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
3	3.800	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
3	3.900	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.





6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
3	6.100	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
3	6.200	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
1	6.400	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
9	6.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
8	6.600	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
0	6.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
5	6.800	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
2	6.900	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
2	7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	0.00
1.100	7.52	81.60	6.67	90.75	0.00
1.200	4.32	42.47	3.81	47.05	0.00
1.300	3.45	28.97	3.04	32.03	0.00
1.400	3.28	21.89	2.88	24.18	0.00
1.500	3.48	17.36	3.07	19.20	0.00
1.600	3.84	14.12	3.39	15.64	0.00
1.700	4.99	11.60	4.43	12.91	0.00
1.800	8.37	9.55	7.49	10.69	0.00
1.900	32.01	7.80	28.85	8.82	0.00
2.000	37.44	4.73	34.02	5.42	0.00
2.000	37.44	4.73	34.02	5.42	0.00
2.100	22.30	5.98	20.12	6.77	0.00
2.200	8.06	7.51	7.23	8.44	0.00
2.300	5.36	9.51	4.78	10.62	0.00
2.400	4.49	12.33	3.99	13.73	0.00
2.500	4.39	16.82	3.90	18.71	0.00
2.600	4.50	15.17	3.99	16.88	0.00
2.700	5.40	11.89	4.81	13.25	0.00
2.800	8.27	9.53	7.39	10.67	0.00
2.900	24.95	7.70	22.43	8.68	0.00
3.000	27.17	6.07	24.59	6.91	0.00
3.000	27.17	6.07	24.59	6.91	0.00
3.100	24.24	7.58	21.79	8.54	0.00
3.200	8.18	9.44	7.31	10.56	0.00
3.300	5.36	11.86	4.77	13.20	0.00
3.400	4.47	15.27	3.96	16.96	0.00
3.500	4.37	20.70	3.87	22.99	0.00
3.600	4.49	15.47	3.98	17.19	0.00
3.700	5.40	11.99	4.80	13.36	0.00
3.800	8.27	9.52	7.39	10.65	0.00
3.900	24.74	7.62	22.26	8.59	0.00
4.000	33.24	6.07	30.12	6.91	0.00

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	33.24	6.07	30.12	6.91	0.00	91.0
4.100	24.71	7.60	22.24	8.57	0.00	114.0
4.200	8.28	9.49	7.41	10.62	0.00	111.1
4.300	5.42	11.94	4.82	13.31	0.00	72.3
4.400	4.50	15.41	3.99	17.13	0.00	59.9
4.500	4.40	20.93	3.90	23.25	0.00	58.4
4.600	4.50	15.44	3.99	17.16	0.00	59.9
4.700	5.41	11.98	4.81	13.35	0.00	72.2
4.800	8.26	9.52	7.39	10.66	0.00	110.8
4.900	24.66	7.64	22.18	8.61	0.00	114.6
5.000	33.63	6.11	30.46	6.95	0.00	91.6
5.000	33.63	6.11	30.46	6.95	0.00	91.6
5.100	24.65	7.64	22.18	8.61	0.00	114.6
5.200	8.26	9.52	7.39	10.66	0.00	110.8
5.300	5.41	11.98	4.81	13.35	0.00	72.2
5.400	4.50	15.44	3.99	17.16	0.00	59.9
5.500	4.40	20.93	3.90	23.25	0.00	58.4
5.600	4.50	15.41	3.99	17.13	0.00	59.9
5.700	5.42	11.94	4.82	13.31	0.00	72.3
5.800	8.28	9.49	7.41	10.62	0.00	111.1
5.900	24.71	7.60	22.24	8.57	0.00	114.0
6.000	33.24	6.07	30.12	6.91	0.00	91.0
6.000	33.24	6.07	30.12	6.91	0.00	91.0
6.100	24.74	7.62	22.26	8.59	0.00	114.3
6.200	8.27	9.52	7.39	10.65	0.00	110.9
6.300	5.40	11.99	4.80	13.36	0.00	72.1
6.400	4.49	15.47	3.98	17.19	0.00	59.7
6.500	4.37	20.70	3.87	22.99	0.00	58.1
6.600	4.47	15.27	3.96	16.96	0.00	59.4
6.700	5.36	11.86	4.77	13.21	0.00	71.5
6.800	8.18	9.44	7.31	10.56	0.00	109.6
6.900	24.24	7.58	21.79	8.54	0.00	113.7
7.000	27.17	6.07	24.59	6.91	0.00	91.1

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
7.000	27.17	6.07	24.59	6.91	0.00	91.1
7.100	24.95	7.70	22.43	8.68	0.00	115.5
7.200	8.27	9.53	7.39	10.67	0.00	110.9
7.300	5.40	11.89	4.81	13.25	0.00	72.2
7.400	4.50	15.17	3.99	16.88	0.00	59.9
7.500	4.39	16.82	3.90	18.71	0.00	58.5
7.600	4.49	12.33	3.99	13.73	0.00	59.9
7.700	5.36	9.51	4.78	10.62	0.00	71.8
7.800	8.06	7.51	7.23	8.44	0.00	108.4
7.900	22.30	5.98	20.12	6.77	0.00	89.6
8.000	37.44	4.73	34.02	5.42	0.00	70.9
8.000	37.44	4.73	34.02	5.42	0.00	70.9
8.100	32.01	7.80	28.85	8.82	0.00	117.0
8.200	8.37	9.55	7.49	10.69	0.00	112.3
8.300	4.99	11.60	4.43	12.91	0.00	66.4
8.400	3.84	14.12	3.39	15.64	0.00	50.8
8.500	3.48	17.36	3.07	19.19	0.00	46.0
8.600	3.28	21.89	2.88	24.18	0.00	43.2
8.700	3.45	28.97	3.04	32.03	0.00	45.6
8.800	4.32	42.47	3.81	47.04	0.00	57.1
8.900	7.52	81.60	6.67	90.75	0.00	100.1
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	7.3	18.50	0.00	14.23	0.00
1.100	0.4	5.4	15.81	0.00	12.16	0.00
1.200	0.3	3.6	13.21	0.00	10.16	0.00
1.300	0.1	1.8	10.72	0.00	8.25	0.00
1.400	0.0	-0.1	8.40	0.00	6.46	0.00
1.500	-0.2	-1.9	-9.69	0.00	-7.46	0.00
1.600	-0.3	-3.8	-12.14	0.00	-9.34	0.00
1.700	-0.5	-5.6	-14.43	0.00	-11.10	0.00
1.800	-0.6	-7.4	-16.52	0.00	-12.71	0.00
1.900	-0.8	-9.3	-18.37	0.00	-14.13	0.00
2.000	-0.9	-11.1	-19.94	0.00	-15.34	0.00
2.000	0.8	-11.1	19.03	0.00	14.64	0.00
2.100	0.6	7.9	17.21	0.00	13.24	0.00
2.200	0.5	6.0	14.96	0.00	11.51	0.00
2.300	0.3	4.2	12.57	0.00	9.67	0.00
2.400	0.2	2.4	10.14	0.00	7.80	0.00
2.500	0.0	0.6	-8.01	0.00	-6.16	0.00
2.600	-0.1	-1.4	-10.41	0.00	-8.01	0.00
2.700	-0.3	-3.2	-12.84	0.00	-9.88	0.00
2.800	-0.4	-5.0	-15.20	0.00	-11.69	0.00
2.900	-0.6	-6.8	-17.40	0.00	-13.38	0.00
3.000	-0.7	-8.7	-19.34	0.00	-14.87	0.00
3.000	0.7	9.0	19.28	0.00	14.83	0.00
3.100	0.6	7.2	17.31	0.00	13.32	0.00
3.200	0.4	5.4	15.09	0.00	11.61	0.00
3.300	0.3	3.5	12.71	0.00	9.78	0.00
3.400	0.1	1.7	10.27	0.00	7.90	0.00
3.500	0.0	-0.1	-7.89	0.00	-6.07	0.00
3.600	-0.2	-2.0	-10.29	0.00	-7.91	0.00
3.700	-0.3	-3.8	-12.73	0.00	-9.79	0.00
3.800	-0.5	-5.7	-15.11	0.00	-11.62	0.00
3.900	-0.6	-7.5	-17.33	0.00	-13.33	0.00
4.000	-0.8	-9.3	-19.29	0.00	-14.84	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-9.3	19.29	0.00	14.84	0.00
4.100	0.6	7.4	17.32	0.00	13.32	0.00
4.200	0.5	5.6	15.10	0.00	11.61	0.00
4.300	0.3	3.7	12.72	0.00	9.78	0.00
4.400	0.2	1.9	10.28	0.00	7.91	0.00
4.500	0.0	0.1	7.88	0.00	6.06	0.00
4.600	-0.1	-1.8	-10.28	0.00	-7.91	0.00
4.700	-0.3	-3.6	-12.72	0.00	-9.78	0.00
4.800	-0.4	-5.5	-15.10	0.00	-11.61	0.00
4.900	-0.6	-7.3	-17.32	0.00	-13.32	0.00
5.000	-0.7	-9.1	-19.29	0.00	-14.84	0.00
5.000	0.7	9.1	19.29	0.00	14.84	0.00
5.100	0.6	7.3	17.32	0.00	13.32	0.00
5.200	0.4	5.5	15.10	0.00	11.61	0.00
5.300	0.3	3.6	12.72	0.00	9.78	0.00
5.400	0.1	1.8	10.28	0.00	7.91	0.00
5.500	0.0	-0.1	7.88	0.00	6.06	0.00
5.600	-0.2	-1.9	-10.28	0.00	-7.91	0.00
5.700	-0.3	-3.7	-12.72	0.00	-9.78	0.00
5.800	-0.5	-5.6	-15.10	0.00	-11.61	0.00
5.900	-0.6	-7.4	-17.32	0.00	-13.32	0.00
6.000	-0.7	-9.2	-19.29	0.00	-14.84	0.00
6.000	0.8	9.3	19.29	0.00	14.84	0.00
6.100	0.6	7.5	17.33	0.00	13.33	0.00
6.200	0.5	5.7	15.11	0.00	11.62	0.00
6.300	0.3	3.8	12.73	0.00	9.79	0.00
6.400	0.2	2.0	10.29	0.00	7.91	0.00
6.500	0.0	0.2	7.89	0.00	6.07	0.00
6.600	-0.1	-1.7	-10.27	0.00	-7.90	0.00
6.700	-0.3	-3.5	-12.71	0.00	-9.78	0.00
6.800	-0.4	-5.4	-15.09	0.00	-11.61	0.00
6.900	-0.6	-7.2	-17.31	0.00	-13.32	0.00
7.000	-0.7	-9.0	-19.28	0.00	-14.83	0.00



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-9.0	19.34	0.00	14.87	0.00
7.100	0.6	6.8	17.40	0.00	13.38	0.00
7.200	0.4	5.0	15.20	0.00	11.69	0.00
7.300	0.3	3.2	12.84	0.00	9.88	0.00
7.400	0.1	1.4	10.41	0.00	8.01	0.00
7.500	0.0	-0.5	8.01	0.00	6.16	0.00
7.600	-0.2	-2.4	-10.14	0.00	-7.80	0.00
7.700	-0.3	-4.2	-12.57	0.00	-9.67	0.00
7.800	-0.5	-6.0	-14.96	0.00	-11.51	0.00
7.900	-0.6	-7.9	-17.21	0.00	-13.24	0.00
8.000	-0.8	-9.7	-19.23	0.00	-14.79	0.00
8.000	0.9	11.1	19.94	0.00	15.34	0.00
8.100	0.8	9.3	18.37	0.00	14.13	0.00
8.200	0.6	7.4	16.52	0.00	12.71	0.00
8.300	0.5	5.6	14.43	0.00	11.10	0.00
8.400	0.3	3.8	12.14	0.00	9.34	0.00
8.500	0.2	1.9	9.69	0.00	7.46	0.00
8.600	0.0	0.1	-8.40	0.00	-6.46	0.00
8.700	-0.1	-1.8	-10.72	0.00	-8.25	0.00
8.800	-0.3	-3.6	-13.21	0.00	-10.16	0.00
8.900	-0.4	-5.4	-15.81	0.00	-12.16	0.00
9.000	-0.6	-7.3	-18.50	0.00	-14.23	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-124.2	108.5
1.100	151.3	-122.2	110.5
1.200	151.3	-120.3	112.5
1.300	151.3	-118.3	114.5
1.400	151.3	-116.3	116.4
1.500	151.3	-114.3	118.4
1.600	151.3	-112.3	120.5
1.700	151.3	-110.3	122.4
1.800	151.3	-108.3	124.4
1.900	151.3	-106.3	126.4
2.000	151.3	-104.4	128.4
2.000	151.3	-104.4	105.9
2.100	151.3	-124.9	107.9
2.200	151.3	-122.9	109.8
2.300	151.3	-120.9	111.8
2.400	151.3	-118.9	113.8
2.500	151.3	-117.0	115.8
2.600	151.3	-114.9	117.8
2.700	151.3	-112.9	119.8
2.800	151.3	-111.0	121.8
2.900	151.3	-109.0	123.8
3.000	151.3	-107.0	117.1
3.000	151.3	-107.0	106.6
3.100	151.3	-124.2	108.6
3.200	151.3	-122.2	110.6
3.300	151.3	-120.2	112.5
3.400	151.3	-118.2	114.5
3.500	151.3	-116.3	116.5
3.600	151.3	-114.2	118.5
3.700	151.3	-112.2	120.5
3.800	151.3	-110.3	122.5
3.900	151.3	-108.3	124.5
4.000	151.3	-106.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-106.3	106.4
4.100	151.3	-124.4	108.4
4.200	151.3	-122.4	110.4
4.300	151.3	-120.4	112.3
4.400	151.3	-118.4	114.3
4.500	151.3	-116.5	116.3
4.600	151.3	-114.4	118.3
4.700	151.3	-112.4	120.3
4.800	151.3	-110.5	122.3
4.900	151.3	-108.5	124.3
5.000	151.3	-106.5	117.1
5.000	151.3	-106.5	106.5
5.100	151.3	-124.3	108.5
5.200	151.3	-122.3	110.5
5.300	151.3	-120.3	112.4
5.400	151.3	-118.3	114.4
5.500	151.3	-116.4	116.4
5.600	151.3	-114.3	118.4
5.700	151.3	-112.3	120.4
5.800	151.3	-110.4	122.4
5.900	151.3	-108.4	124.4
6.000	151.3	-106.4	117.1
6.000	151.3	-106.4	106.3
6.100	151.3	-124.5	108.3
6.200	151.3	-122.5	110.3
6.300	151.3	-120.5	112.2
6.400	151.3	-118.5	114.2
6.500	151.3	-116.6	116.2
6.600	151.3	-114.5	118.2
6.700	151.3	-112.5	120.2
6.800	151.3	-110.6	122.2
6.900	151.3	-108.6	124.2
7.000	151.3	-106.6	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-106.6	107.0
7.100	151.3	-123.8	109.0
7.200	151.3	-121.8	111.0
7.300	151.3	-119.8	112.9
7.400	151.3	-117.8	114.9
7.500	151.3	-115.8	116.9
7.600	151.3	-113.8	118.9
7.700	151.3	-111.8	120.9
7.800	151.3	-109.8	122.9
7.900	151.3	-107.9	124.9
8.000	151.3	-105.9	117.2
8.000	151.3	-105.9	104.4
8.100	151.3	-126.4	106.3
8.200	151.3	-124.4	108.3
8.300	151.3	-122.4	110.3
8.400	151.3	-120.5	112.3
8.500	151.3	-118.5	114.3
8.600	151.3	-116.4	116.3
8.700	151.3	-114.5	118.3
8.800	151.3	-112.5	120.3
8.900	151.3	-110.5	122.2
9.000	151.3	-108.5	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	85.04	5.87	0.00	88.0
1.100	65.02	6.99	0.00	104.8
1.200	32.19	8.52	0.00	127.8
1.300	21.33	10.68	0.00	160.1
1.400	15.97	13.87	0.00	208.0
1.500	11.80	18.90	0.00	176.9
1.600	9.24	27.61	0.00	138.7
1.700	7.64	45.09	0.00	114.6
1.800	6.56	93.05	0.00	98.4
1.900	5.79	322.96	0.00	86.9
2.000	5.23	328.02	0.00	78.5
2.000	5.23	5.56	0.00	78.5
2.100	63.81	6.27	0.00	94.0
2.200	62.80	7.34	0.00	110.1
2.300	33.34	8.89	0.00	133.4
2.400	20.80	11.22	0.00	168.3
2.500	14.61	14.92	0.00	219.1
2.600	11.04	21.34	0.00	165.5
2.700	8.80	34.21	0.00	131.9
2.800	7.30	49.62	0.00	109.5
2.900	6.26	50.43	0.00	94.0
3.000	5.53	47.70	0.00	83.0
3.000	5.53	5.53	0.00	82.9
3.100	62.32	6.27	0.00	94.1
3.200	61.32	7.33	0.00	109.9
3.300	33.70	8.86	0.00	132.8
3.400	21.04	11.15	0.00	167.3
3.500	14.74	14.80	0.00	221.1
3.600	11.10	21.15	0.00	166.5
3.700	8.82	33.87	0.00	132.3
3.800	7.30	60.39	0.00	109.5
3.900	6.25	61.37	0.00	93.7
4.000	5.51	57.75	0.00	82.6

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	5.51	5.52	0.00	82.6
4.100	62.33	6.26	0.00	93.9
4.200	61.34	7.31	0.00	109.6
4.300	33.80	8.83	0.00	132.5
4.400	21.10	11.12	0.00	166.8
4.500	14.78	14.76	0.00	221.4
4.600	11.13	21.09	0.00	167.0
4.700	8.84	33.77	0.00	132.6
4.800	7.32	61.22	0.00	109.7
4.900	6.26	62.21	0.00	93.9
5.000	5.52	58.63	0.00	82.8
5.000	5.52	5.52	0.00	82.8
5.100	62.21	6.26	0.00	93.9
5.200	61.22	7.32	0.00	109.7
5.300	33.77	8.84	0.00	132.6
5.400	21.09	11.13	0.00	167.0
5.500	14.77	14.77	0.00	221.6
5.600	11.12	21.10	0.00	166.8
5.700	8.83	33.80	0.00	132.5
5.800	7.31	61.34	0.00	109.6
5.900	6.26	62.33	0.00	93.9
6.000	5.52	58.70	0.00	82.7
6.000	5.52	5.51	0.00	82.6
6.100	61.37	6.25	0.00	93.7
6.200	60.39	7.30	0.00	109.5
6.300	33.87	8.82	0.00	132.3
6.400	21.15	11.10	0.00	166.5
6.500	14.81	14.73	0.00	221.0
6.600	11.15	21.04	0.00	167.3
6.700	8.86	33.70	0.00	132.8
6.800	7.33	61.32	0.00	109.9
6.900	6.27	62.32	0.00	94.1
7.000	5.53	58.77	0.00	82.9

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	5.53	5.53	0.00	82.9
7.100	50.43	6.26	0.00	94.0
7.200	49.62	7.30	0.00	109.5
7.300	34.21	8.80	0.00	131.9
7.400	21.34	11.04	0.00	165.5
7.500	14.93	14.60	0.00	219.0
7.600	11.22	20.80	0.00	168.3
7.700	8.89	33.34	0.00	133.4
7.800	7.34	62.80	0.00	110.1
7.900	6.27	63.81	0.00	94.0
8.000	5.51	59.87	0.00	82.6
8.000	5.51	5.23	0.00	78.5
8.100	322.96	5.79	0.00	86.9
8.200	93.05	6.56	0.00	98.4
8.300	45.09	7.64	0.00	114.6
8.400	27.61	9.24	0.00	138.7
8.500	18.91	11.79	0.00	176.8
8.600	13.87	15.97	0.00	208.0
8.700	10.68	21.33	0.00	160.1
8.800	8.52	32.19	0.00	127.8
8.900	6.99	65.02	0.00	104.8
9.000	5.87	999.00	0.00	88.0









6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.100 61.1	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
6.200 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
6.300 90.3	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
6.400 97.9	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
6.500 00.7	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
6.600 98.6	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
6.700 91.8	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
6.800 80.2	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
6.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2



9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	6.96	84.67	6.96	84.67	0.00	104.3
1.200	3.98	44.01	3.98	44.01	0.00	59.7
1.300	3.18	30.00	3.18	30.00	0.00	47.7
1.400	3.02	22.66	3.02	22.66	0.00	45.2
1.500	3.21	17.98	3.21	17.98	0.00	48.1
1.600	3.54	14.63	3.54	14.63	0.00	53.1
1.700	4.62	12.04	4.62	12.04	0.00	69.3
1.800	7.78	9.93	7.78	9.93	0.00	116.8
1.900	29.91	8.14	29.91	8.14	0.00	122.1
2.000	35.17	4.96	35.17	4.96	0.00	74.4
2.000	35.17	4.96	35.17	4.96	0.00	74.4
2.100	20.85	6.24	20.85	6.24	0.00	93.6
2.200	7.51	7.82	7.51	7.82	0.00	112.6
2.300	4.98	9.89	4.98	9.89	0.00	74.7
2.400	4.16	12.80	4.16	12.80	0.00	62.4
2.500	4.06	17.46	4.06	17.46	0.00	61.0
2.600	4.16	15.74	4.16	15.74	0.00	62.4
2.700	5.01	12.35	5.01	12.35	0.00	75.1
2.800	7.69	9.91	7.69	9.91	0.00	115.3
2.900	23.27	8.03	23.27	8.03	0.00	120.4
3.000	25.46	6.35	25.46	6.35	0.00	95.3
3.000	25.46	6.35	25.46	6.35	0.00	95.3
3.100	22.61	7.90	22.61	7.90	0.00	118.5
3.200	7.60	9.81	7.60	9.81	0.00	114.0
3.300	4.97	12.31	4.97	12.31	0.00	74.5
3.400	4.13	15.84	4.13	15.84	0.00	62.0
3.500	4.04	21.47	4.04	21.47	0.00	60.6
3.600	4.15	16.05	4.15	16.05	0.00	62.2
3.700	5.01	12.45	5.01	12.45	0.00	75.1
3.800	7.69	9.90	7.69	9.90	0.00	115.3
3.900	23.09	7.95	23.09	7.95	0.00	119.2
4.000	31.17	6.35	31.17	6.35	0.00	95.3

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
4.000	31.17	6.35	31.17	6.35	0.00	95.3
4.100	23.07	7.93	23.07	7.93	0.00	118.9
4.200	7.70	9.87	7.70	9.87	0.00	115.5
4.300	5.02	12.40	5.02	12.40	0.00	75.3
4.400	4.17	15.99	4.17	15.99	0.00	62.5
4.500	4.06	21.71	4.06	21.71	0.00	61.0
4.600	4.16	16.02	4.16	16.02	0.00	62.4
4.700	5.01	12.44	5.01	12.44	0.00	75.2
4.800	7.68	9.91	7.68	9.91	0.00	115.2
4.900	23.01	7.97	23.01	7.97	0.00	119.5
5.000	31.52	6.39	31.52	6.39	0.00	95.9
5.000	31.52	6.39	31.52	6.39	0.00	95.9
5.100	23.01	7.97	23.01	7.97	0.00	119.5
5.200	7.68	9.91	7.68	9.91	0.00	115.2
5.300	5.01	12.44	5.01	12.44	0.00	75.2
5.400	4.16	16.02	4.16	16.02	0.00	62.4
5.500	4.06	21.71	4.06	21.71	0.00	61.0
5.600	4.17	15.99	4.17	15.99	0.00	62.5
5.700	5.02	12.40	5.02	12.40	0.00	75.3
5.800	7.70	9.87	7.70	9.87	0.00	115.5
5.900	23.07	7.93	23.07	7.93	0.00	118.9
6.000	31.17	6.35	31.17	6.35	0.00	95.3
6.000	31.17	6.35	31.17	6.35	0.00	95.3
6.100	23.09	7.95	23.09	7.95	0.00	119.2
6.200	7.69	9.90	7.69	9.90	0.00	115.3
6.300	5.01	12.45	5.01	12.45	0.00	75.1
6.400	4.15	16.05	4.15	16.05	0.00	62.2
6.500	4.04	21.47	4.04	21.47	0.00	60.6
6.600	4.13	15.84	4.13	15.84	0.00	62.0
6.700	4.97	12.31	4.97	12.31	0.00	74.5
6.800	7.60	9.81	7.60	9.81	0.00	114.0
6.900	22.61	7.90	22.61	7.90	0.00	118.5
7.000	25.46	6.35	25.46	6.35	0.00	95.3

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	25.46	6.35	25.46	6.35	0.00	95.3
7.100	23.27	8.03	23.27	8.03	0.00	120.4
7.200	7.69	9.91	7.69	9.91	0.00	115.3
7.300	5.01	12.35	5.01	12.35	0.00	75.1
7.400	4.16	15.74	4.16	15.74	0.00	62.4
7.500	4.06	17.46	4.06	17.46	0.00	61.0
7.600	4.16	12.80	4.16	12.80	0.00	62.4
7.700	4.98	9.89	4.98	9.89	0.00	74.7
7.800	7.51	7.82	7.51	7.82	0.00	112.6
7.900	20.85	6.24	20.85	6.24	0.00	93.6
8.000	35.17	4.96	35.17	4.96	0.00	74.4
8.000	35.17	4.96	35.17	4.96	0.00	74.4
8.100	29.91	8.14	29.91	8.14	0.00	122.1
8.200	7.78	9.93	7.78	9.93	0.00	116.8
8.300	4.62	12.04	4.62	12.04	0.00	69.3
8.400	3.54	14.63	3.54	14.63	0.00	53.1
8.500	3.21	17.98	3.21	17.98	0.00	48.1
8.600	3.02	22.66	3.02	22.66	0.00	45.2
8.700	3.18	30.00	3.18	30.00	0.00	47.7
8.800	3.98	44.01	3.98	44.01	0.00	59.7
8.900	6.96	84.67	6.96	84.67	0.00	104.3
9.000	999.00	999.00	999.00	999.00	0.00	999.0



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
1.000	0.0	0.0	0.00 R	0.00
1.100	1.2	15.2	51.17 R	39.36
1.200	2.1	26.0	84.09 R	64.69
1.300	2.6	32.4	100.40 R	77.23
1.400	2.8	34.4	106.14 R	81.65
1.500	2.6	32.1	103.45 R	79.57
1.600	2.0	25.2	90.46 L	69.58
1.700	1.1	14.0	72.90 L	56.08
1.800	-0.2	-1.7	43.45 L	33.43
1.900	-1.8	-21.7	-45.10 R	-34.70
2.000	-3.8	-46.0	-68.97 R	-53.05
2.000	-3.8	-46.0	-68.97 R	-53.05
2.100	-2.1	-25.0	-57.83 L	-44.49
2.200	-0.7	-8.4	-49.43 L	-38.03
2.300	0.3	3.9	69.87 R	53.75
2.400	0.9	11.7	81.45 R	62.65
2.500	1.2	15.2	85.89 R	66.07
2.600	1.1	14.2	80.32 L	61.78
2.700	0.7	8.8	67.90 L	52.23
2.800	-0.1	-1.0	44.04 L	33.87
2.900	-1.3	-15.1	-47.00 R	-36.15
3.000	-2.8	-33.7	-61.95 R	-47.66
3.000	-2.8	-33.7	-61.95 R	-47.66
3.100	-1.2	-14.2	-47.91 L	-36.86
3.200	0.0	0.8	44.29 R	34.07
3.300	0.9	11.5	67.68 R	52.06
3.400	1.4	17.8	79.67 R	61.29
3.500	1.6	19.7	84.63 R	65.10
3.600	1.4	17.1	79.59 L	61.22
3.700	0.8	10.1	67.54 L	51.95
3.800	-0.1	-1.2	44.08 L	33.91
3.900	-1.4	-16.9	-47.14 R	-36.26
4.000	-3.0	-37.0	-61.48 R	-47.29

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-37.0	-61.48 R 0.00	-47.29 0.00
4.100	-1.4	-17.2	-47.20 L 0.00	-36.31 0.00
4.200	-0.2	-1.7	44.10 R 0.00	33.92 0.00
4.300	0.7	9.5	67.52 R 0.00	51.94 0.00
4.400	1.3	16.2	79.55 R 0.00	61.19 0.00
4.500	1.5	18.6	84.54 R 0.00	65.03 0.00
4.600	1.3	16.5	79.54 L 0.00	61.18 0.00
4.700	0.8	9.9	67.51 L 0.00	51.93 0.00
4.800	-0.1	-1.0	44.08 L 0.00	33.91 0.00
4.900	-1.3	-16.3	-47.15 R 0.00	-36.27 0.00
5.000	-2.9	-35.9	-61.44 R 0.00	-47.26 0.00
5.000	-2.9	-35.9	-61.44 R 0.00	-47.26 0.00
5.100	-1.3	-16.3	-47.15 L 0.00	-36.27 0.00
5.200	-0.1	-1.0	44.08 R 0.00	33.91 0.00
5.300	0.8	9.9	67.52 R 0.00	51.93 0.00
5.400	1.3	16.5	79.54 R 0.00	61.18 0.00
5.500	1.5	18.6	84.54 L 0.00	65.03 0.00
5.600	1.3	16.2	79.55 L 0.00	61.19 0.00
5.700	0.7	9.5	67.52 L 0.00	51.94 0.00
5.800	-0.2	-1.7	44.10 L 0.00	33.92 0.00
5.900	-1.4	-17.2	-47.20 R 0.00	-36.31 0.00
6.000	-3.0	-37.0	-61.43 R 0.00	-47.26 0.00
6.000	-3.0	-37.0	-61.43 R 0.00	-47.26 0.00
6.100	-1.4	-16.9	-47.14 L 0.00	-36.26 0.00
6.200	-0.1	-1.2	44.08 R 0.00	33.91 0.00
6.300	0.8	10.1	67.54 R 0.00	51.95 0.00
6.400	1.4	17.1	79.59 R 0.00	61.22 0.00
6.500	1.6	19.7	84.63 L 0.00	65.10 0.00
6.600	1.4	17.8	79.67 L 0.00	61.29 0.00
6.700	0.9	11.5	67.68 L 0.00	52.06 0.00
6.800	0.0	0.8	44.29 L 0.00	34.07 0.00
6.900	-1.2	-14.2	-47.91 R 0.00	-36.86 0.00
7.000	-2.8	-33.7	-61.89 L 0.00	-47.61 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-33.7	-61.89 L 0.00	-47.61 0.00
7.100	-1.3	-15.1	-47.00 L 0.00	-36.15 0.00
7.200	-0.1	-1.0	44.04 R 0.00	33.87 0.00
7.300	0.7	8.8	67.90 R 0.00	52.23 0.00
7.400	1.1	14.2	80.32 R 0.00	61.78 0.00
7.500	1.2	15.2	85.89 L 0.00	66.07 0.00
7.600	0.9	11.7	81.45 L 0.00	62.65 0.00
7.700	0.3	3.9	69.87 L 0.00	53.75 0.00
7.800	-0.7	-8.4	-49.43 R 0.00	-38.03 0.00
7.900	-2.1	-25.0	-57.83 R 0.00	-44.48 0.00
8.000	-3.8	-46.0	-68.97 L 0.00	-53.05 0.00
8.000	-3.8	-46.0	-68.97 L 0.00	-53.05 0.00
8.100	-1.8	-21.7	-45.11 L 0.00	-34.70 0.00
8.200	-0.2	-1.7	43.45 R 0.00	33.43 0.00
8.300	1.1	14.0	72.90 R 0.00	56.08 0.00
8.400	2.0	25.2	90.46 R 0.00	69.58 0.00
8.500	2.6	32.1	103.45 L 0.00	79.57 0.00
8.600	2.8	34.4	106.14 L 0.00	81.65 0.00
8.700	2.6	32.4	100.40 L 0.00	77.23 0.00
8.800	2.1	26.0	84.09 L 0.00	64.69 0.00
8.900	1.2	15.2	51.17 L 0.00	39.36 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
. 1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6 1.100	300.6C	268.7	-268.7	-300.6C	284.2	252.3	-285.0	-317.
0 1.200	300.6C	268.7	-268.7	-300.6C	272.6	240.6	-296.7	-328.
7 1.300	300.6C	268.7	-268.7	-300.6C	265.7	233.7	-303.6	-335.
6 1.400	300.6C	268.7	-268.7	-300.6C	263.5	231.5	-305.8	-337.
8 1.500	300.6C	268.7	-268.7	-300.6C	266.0	234.0	-303.3	-335.
3 1.600	300.6C	268.7	-268.7	-300.6C	273.4	241.4	-295.9	-327.
9 1.700	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
7 1.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8 1.900	300.6C	268.7	-268.7	-300.6C	324.1	292.1	-245.2	-277.
2 2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8 2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
6 2.100	300.6C	268.7	-268.7	-300.6C	327.7	295.7	-241.6	-273.
5 2.200	300.6C	268.7	-268.7	-300.6C	309.7	277.8	-259.5	-291.
8 2.300	300.6C	268.7	-268.7	-300.6C	296.5	264.5	-272.8	-304.
3 2.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
1 2.500	300.6C	268.7	-268.7	-300.6C	284.2	252.2	-285.1	-317.
0 2.600	300.6C	268.7	-268.7	-300.6C	285.3	253.3	-284.0	-316.
1 2.700	300.6C	268.7	-268.7	-300.6C	291.2	259.2	-278.1	-310.
5 2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
2 2.900	300.6C	268.7	-268.7	-300.6C	317.0	285.1	-252.3	-284.

2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.100	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
5	3.200	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
0	3.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
8	3.400	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
9	3.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
1	3.600	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
6	3.700	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
3	3.800	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
3	3.900	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.



6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
3	6.100	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
3	6.200	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
1	6.400	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
9	6.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
8	6.600	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
0	6.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
5	6.800	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
2	6.900	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
2	7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.





9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.55	56.88	4.93	63.26	0.00	113.4
1.200	3.24	29.60	2.86	32.79	0.00	65.8
1.300	2.65	20.19	2.33	22.32	0.00	53.5
1.400	2.48	15.26	2.18	16.85	0.00	50.2
1.500	2.57	12.10	2.26	13.38	0.00	52.0
1.600	3.02	9.84	2.67	10.90	0.00	61.4
1.700	3.92	8.09	3.48	9.00	0.00	80.0
1.800	6.96	6.66	6.22	7.45	0.00	143.2
1.900	26.82	5.44	24.17	6.15	0.00	125.0
2.000	26.10	3.17	23.71	3.64	0.00	73.0
2.000	26.10	3.17	23.71	3.64	0.00	73.0
2.100	25.73	4.18	23.22	4.73	0.00	96.1
2.200	6.60	5.25	5.92	5.90	0.00	120.8
2.300	4.24	6.65	3.79	7.43	0.00	87.1
2.400	3.54	8.62	3.14	9.60	0.00	72.3
2.500	3.31	11.76	2.94	13.08	0.00	67.5
2.600	3.55	10.57	3.15	11.76	0.00	72.5
2.700	4.29	8.28	3.82	9.24	0.00	87.8
2.800	6.85	6.64	6.13	7.43	0.00	140.9
2.900	25.17	5.37	22.63	6.05	0.00	123.4
3.000	18.99	3.75	17.19	4.26	0.00	86.2
3.000	18.99	3.75	17.19	4.26	0.00	86.2
3.100	20.40	5.28	18.33	5.95	0.00	121.6
3.200	6.77	6.58	6.05	7.36	0.00	139.1
3.300	4.26	8.27	3.79	9.21	0.00	87.1
3.400	3.53	10.65	3.13	11.83	0.00	72.0
3.500	3.30	14.44	2.92	16.03	0.00	67.2
3.600	3.55	10.78	3.14	11.98	0.00	72.3
3.700	4.29	8.35	3.82	9.31	0.00	87.8
3.800	6.85	6.63	6.12	7.43	0.00	140.9
3.900	25.25	5.31	22.72	5.99	0.00	122.1
4.000	23.17	3.72	21.00	4.24	0.00	85.5

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber -bend	bottom fiber +bend		
4.000	23.17	3.72	21.00	4.24	0.00	85.5
4.100	24.86	5.30	22.37	5.97	0.00	121.9
4.200	6.86	6.61	6.13	7.41	0.00	141.1
4.300	4.30	8.33	3.83	9.28	0.00	88.0
4.400	3.56	10.74	3.16	11.94	0.00	72.6
4.500	3.32	14.59	2.94	16.21	0.00	67.6
4.600	3.56	10.76	3.15	11.96	0.00	72.6
4.700	4.30	8.35	3.82	9.31	0.00	87.9
4.800	6.84	6.64	6.12	7.43	0.00	140.7
4.900	25.16	5.32	22.63	6.00	0.00	122.5
5.000	23.44	3.74	21.23	4.26	0.00	86.0
5.000	23.44	3.74	21.23	4.26	0.00	86.0
5.100	25.16	5.32	22.63	6.00	0.00	122.5
5.200	6.84	6.64	6.12	7.43	0.00	140.7
5.300	4.30	8.35	3.82	9.31	0.00	87.9
5.400	3.56	10.76	3.15	11.96	0.00	72.6
5.500	3.32	14.59	2.94	16.21	0.00	67.6
5.600	3.56	10.74	3.16	11.94	0.00	72.6
5.700	4.30	8.33	3.83	9.28	0.00	88.0
5.800	6.86	6.61	6.13	7.41	0.00	141.1
5.900	24.86	5.30	22.37	5.97	0.00	121.9
6.000	23.17	3.72	21.00	4.24	0.00	85.6
6.000	23.17	3.72	21.00	4.24	0.00	85.6
6.100	25.25	5.31	22.72	5.99	0.00	122.1
6.200	6.85	6.63	6.12	7.43	0.00	140.9
6.300	4.29	8.35	3.82	9.31	0.00	87.8
6.400	3.55	10.78	3.14	11.98	0.00	72.3
6.500	3.30	14.44	2.92	16.03	0.00	67.2
6.600	3.53	10.65	3.13	11.83	0.00	72.0
6.700	4.26	8.27	3.79	9.21	0.00	87.1
6.800	6.77	6.58	6.05	7.36	0.00	139.1
6.900	20.40	5.28	18.33	5.95	0.00	121.6
7.000	19.00	3.75	17.19	4.27	0.00	86.3

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	19.00	3.75	17.19	4.27	0.00	86.3
7.100	25.17	5.37	22.63	6.05	0.00	123.4
7.200	6.85	6.64	6.12	7.43	0.00	140.9
7.300	4.29	8.28	3.82	9.24	0.00	87.8
7.400	3.55	10.57	3.15	11.76	0.00	72.5
7.500	3.31	11.76	2.94	13.08	0.00	67.5
7.600	3.54	8.62	3.14	9.60	0.00	72.3
7.700	4.24	6.65	3.79	7.43	0.00	87.1
7.800	6.60	5.25	5.92	5.90	0.00	120.8
7.900	25.73	4.18	23.22	4.73	0.00	96.1
8.000	26.09	3.17	23.71	3.64	0.00	73.0
8.000	26.09	3.17	23.71	3.64	0.00	73.0
8.100	26.82	5.44	24.17	6.15	0.00	125.0
8.200	6.96	6.66	6.22	7.45	0.00	143.2
8.300	3.92	8.09	3.48	9.00	0.00	80.0
8.400	3.02	9.84	2.67	10.90	0.00	61.4
8.500	2.57	12.10	2.26	13.38	0.00	52.0
8.600	2.48	15.26	2.18	16.85	0.00	50.2
8.700	2.65	20.19	2.33	22.32	0.00	53.5
8.800	3.24	29.60	2.86	32.79	0.00	65.8
8.900	5.55	56.88	4.93	63.26	0.00	113.4
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	7.3	25.38	0.00	19.53	0.00
1.100	0.4	5.4	21.40	0.00	16.46	0.00
1.200	0.3	3.6	17.58	0.00	13.52	0.00
1.300	0.1	1.8	13.99	0.00	10.76	0.00
1.400	0.0	-0.1	10.69	0.00	8.22	0.00
1.500	-0.2	-1.9	-12.78	0.00	-9.83	0.00
1.600	-0.3	-3.8	-15.69	0.00	-12.07	0.00
1.700	-0.5	-5.6	-19.35	0.00	-14.88	0.00
1.800	-0.6	-7.4	-22.74	0.00	-17.49	0.00
1.900	-0.8	-9.3	-25.81	0.00	-19.86	0.00
2.000	-0.9	-11.1	-28.51	0.00	-21.93	0.00
2.000	0.8	-11.1	26.83	0.00	20.64	0.00
2.100	0.6	7.9	23.73	0.00	18.25	0.00
2.200	0.5	6.0	20.22	0.00	15.55	0.00
2.300	0.3	4.2	16.60	0.00	12.77	0.00
2.400	0.2	2.4	13.03	0.00	10.02	0.00
2.500	0.0	0.6	-9.93	0.00	-7.64	0.00
2.600	-0.1	-1.4	-13.39	0.00	-10.30	0.00
2.700	-0.3	-3.2	-16.99	0.00	-13.07	0.00
2.800	-0.4	-5.0	-20.59	0.00	-15.84	0.00
2.900	-0.6	-6.8	-24.05	0.00	-18.50	0.00
3.000	-0.7	-8.7	-27.22	0.00	-20.94	0.00
3.000	0.7	9.0	27.11	0.00	20.85	0.00
3.100	0.6	7.2	23.90	0.00	18.38	0.00
3.200	0.4	5.4	20.41	0.00	15.70	0.00
3.300	0.3	3.5	16.79	0.00	12.92	0.00
3.400	0.1	1.7	13.20	0.00	10.15	0.00
3.500	0.0	-0.1	-9.79	0.00	-7.53	0.00
3.600	-0.2	-2.0	-13.23	0.00	-10.17	0.00
3.700	-0.3	-3.8	-16.82	0.00	-12.94	0.00
3.800	-0.5	-5.7	-20.43	0.00	-15.72	0.00
3.900	-0.6	-7.5	-23.92	0.00	-18.40	0.00
4.000	-0.8	-9.3	-27.13	0.00	-20.87	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-9.3	27.12	0.00	20.86	0.00
4.100	0.6	7.4	23.91	0.00	18.39	0.00
4.200	0.5	5.6	20.42	0.00	15.71	0.00
4.300	0.3	3.7	16.81	0.00	12.93	0.00
4.400	0.2	1.9	13.21	0.00	10.16	0.00
4.500	0.0	0.1	9.78	0.00	7.52	0.00
4.600	-0.1	-1.8	-13.21	0.00	-10.16	0.00
4.700	-0.3	-3.6	-16.81	0.00	-12.93	0.00
4.800	-0.4	-5.5	-20.42	0.00	-15.71	0.00
4.900	-0.6	-7.3	-23.91	0.00	-18.39	0.00
5.000	-0.7	-9.1	-27.12	0.00	-20.86	0.00
5.000	0.7	9.1	27.12	0.00	20.86	0.00
5.100	0.6	7.3	23.91	0.00	18.39	0.00
5.200	0.4	5.5	20.42	0.00	15.71	0.00
5.300	0.3	3.6	16.81	0.00	12.93	0.00
5.400	0.1	1.8	13.21	0.00	10.16	0.00
5.500	0.0	-0.1	9.78	0.00	7.52	0.00
5.600	-0.2	-1.9	-13.21	0.00	-10.16	0.00
5.700	-0.3	-3.7	-16.81	0.00	-12.93	0.00
5.800	-0.5	-5.6	-20.42	0.00	-15.71	0.00
5.900	-0.6	-7.4	-23.91	0.00	-18.39	0.00
6.000	-0.7	-9.2	-27.12	0.00	-20.86	0.00
6.000	0.8	9.3	27.13	0.00	20.87	0.00
6.100	0.6	7.5	23.92	0.00	18.40	0.00
6.200	0.5	5.7	20.43	0.00	15.72	0.00
6.300	0.3	3.8	16.82	0.00	12.94	0.00
6.400	0.2	2.0	13.23	0.00	10.17	0.00
6.500	0.0	0.2	9.79	0.00	7.53	0.00
6.600	-0.1	-1.7	-13.20	0.00	-10.15	0.00
6.700	-0.3	-3.5	-16.79	0.00	-12.92	0.00
6.800	-0.4	-5.4	-20.41	0.00	-15.70	0.00
6.900	-0.6	-7.2	-23.90	0.00	-18.38	0.00
7.000	-0.7	-9.0	-27.11	0.00	-20.85	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-9.0	27.22	0.00	20.94	0.00
7.100	0.6	6.8	24.05	0.00	18.50	0.00
7.200	0.4	5.0	20.59	0.00	15.84	0.00
7.300	0.3	3.2	16.99	0.00	13.07	0.00
7.400	0.1	1.4	13.39	0.00	10.30	0.00
7.500	0.0	-0.5	9.93	0.00	7.64	0.00
7.600	-0.2	-2.4	-13.03	0.00	-10.02	0.00
7.700	-0.3	-4.2	-16.60	0.00	-12.77	0.00
7.800	-0.5	-6.0	-20.22	0.00	-15.55	0.00
7.900	-0.6	-7.9	-23.73	0.00	-18.25	0.00
8.000	-0.8	-9.7	-26.99	0.00	-20.76	0.00
8.000	0.9	11.1	28.51	0.00	21.93	0.00
8.100	0.8	9.3	25.81	0.00	19.86	0.00
8.200	0.6	7.4	22.74	0.00	17.49	0.00
8.300	0.5	5.6	19.35	0.00	14.88	0.00
8.400	0.3	3.8	15.69	0.00	12.07	0.00
8.500	0.2	1.9	12.78	0.00	9.83	0.00
8.600	0.0	0.1	-10.69	0.00	-8.22	0.00
8.700	-0.1	-1.8	-13.99	0.00	-10.76	0.00
8.800	-0.3	-3.6	-17.58	0.00	-13.52	0.00
8.900	-0.4	-5.4	-21.40	0.00	-16.46	0.00
9.000	-0.6	-7.3	-25.38	0.00	-19.53	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-124.2	108.5
1.100	151.3	-122.2	110.5
1.200	151.3	-120.3	112.5
1.300	151.3	-118.3	114.5
1.400	151.3	-116.3	116.4
1.500	151.3	-114.3	118.4
1.600	151.3	-112.3	120.5
1.700	151.3	-110.3	122.4
1.800	151.3	-108.3	124.4
1.900	151.3	-106.3	126.4
2.000	151.3	-104.4	128.4
2.000	151.3	-104.4	105.9
2.100	151.3	-124.9	107.9
2.200	151.3	-122.9	109.8
2.300	151.3	-120.9	111.8
2.400	151.3	-118.9	113.8
2.500	151.3	-117.0	115.8
2.600	151.3	-114.9	117.8
2.700	151.3	-112.9	119.8
2.800	151.3	-111.0	121.8
2.900	151.3	-109.0	123.8
3.000	151.3	-107.0	117.1
3.000	151.3	-107.0	106.6
3.100	151.3	-124.2	108.6
3.200	151.3	-122.2	110.6
3.300	151.3	-120.2	112.5
3.400	151.3	-118.2	114.5
3.500	151.3	-116.3	116.5
3.600	151.3	-114.2	118.5
3.700	151.3	-112.2	120.5
3.800	151.3	-110.3	122.5
3.900	151.3	-108.3	124.5
4.000	151.3	-106.3	117.1



## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-106.3	106.4
4.100	151.3	-124.4	108.4
4.200	151.3	-122.4	110.4
4.300	151.3	-120.4	112.3
4.400	151.3	-118.4	114.3
4.500	151.3	-116.5	116.3
4.600	151.3	-114.4	118.3
4.700	151.3	-112.4	120.3
4.800	151.3	-110.5	122.3
4.900	151.3	-108.5	124.3
5.000	151.3	-106.5	117.1
5.000	151.3	-106.5	106.5
5.100	151.3	-124.3	108.5
5.200	151.3	-122.3	110.5
5.300	151.3	-120.3	112.4
5.400	151.3	-118.3	114.4
5.500	151.3	-116.4	116.4
5.600	151.3	-114.3	118.4
5.700	151.3	-112.3	120.4
5.800	151.3	-110.4	122.4
5.900	151.3	-108.4	124.4
6.000	151.3	-106.4	117.1
6.000	151.3	-106.4	106.3
6.100	151.3	-124.5	108.3
6.200	151.3	-122.5	110.3
6.300	151.3	-120.5	112.2
6.400	151.3	-118.5	114.2
6.500	151.3	-116.6	116.2
6.600	151.3	-114.5	118.2
6.700	151.3	-112.5	120.2
6.800	151.3	-110.6	122.2
6.900	151.3	-108.6	124.2
7.000	151.3	-106.6	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-106.6	107.0
7.100	151.3	-123.8	109.0
7.200	151.3	-121.8	111.0
7.300	151.3	-119.8	112.9
7.400	151.3	-117.8	114.9
7.500	151.3	-115.8	116.9
7.600	151.3	-113.8	118.9
7.700	151.3	-111.8	120.9
7.800	151.3	-109.8	122.9
7.900	151.3	-107.9	124.9
8.000	151.3	-105.9	117.2
8.000	151.3	-105.9	104.4
8.100	151.3	-126.4	106.3
8.200	151.3	-124.4	108.3
8.300	151.3	-122.4	110.3
8.400	151.3	-120.5	112.3
8.500	151.3	-118.5	114.3
8.600	151.3	-116.4	116.3
8.700	151.3	-114.5	118.3
8.800	151.3	-112.5	120.3
8.900	151.3	-110.5	122.2
9.000	151.3	-108.5	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	59.28	4.28	0.00	98.3
1.100	58.33	5.16	0.00	118.8
1.200	32.51	6.40	0.00	147.2
1.300	17.32	8.18	0.00	188.1
1.400	11.78	10.90	0.00	250.6
1.500	8.95	15.35	0.00	205.8
1.600	7.16	23.58	0.00	164.6
1.700	5.70	42.40	0.00	131.1
1.800	4.76	115.55	0.00	109.6
1.900	4.12	225.12	0.00	94.8
2.000	3.66	228.64	0.00	84.2
2.000	3.66	3.95	0.00	84.2
2.100	44.48	4.55	0.00	104.6
2.200	43.78	5.43	0.00	125.0
2.300	31.74	6.74	0.00	154.9
2.400	17.74	8.73	0.00	200.9
2.500	11.78	12.02	0.00	271.0
2.600	8.58	18.10	0.00	197.4
2.700	6.65	32.04	0.00	152.9
2.800	5.39	34.69	0.00	124.0
2.900	4.53	35.25	0.00	104.2
3.000	3.93	33.34	0.00	90.4
3.000	3.93	3.93	0.00	90.4
3.100	43.44	4.54	0.00	104.5
3.200	42.74	5.42	0.00	124.6
3.300	31.59	6.70	0.00	154.1
3.400	17.85	8.68	0.00	199.5
3.500	11.87	11.92	0.00	273.1
3.600	8.64	17.94	0.00	198.6
3.700	6.67	31.72	0.00	153.5
3.800	5.39	42.11	0.00	124.1
3.900	4.53	42.79	0.00	104.1
4.000	3.92	40.26	0.00	90.1

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.92	3.92	0.00	90.1
4.100	43.45	4.53	0.00	104.3
4.200	42.76	5.40	0.00	124.3
4.300	31.65	6.68	0.00	153.7
4.400	17.90	8.65	0.00	199.0
4.500	11.90	11.89	0.00	273.5
4.600	8.66	17.89	0.00	199.1
4.700	6.69	31.63	0.00	153.9
4.800	5.41	42.67	0.00	124.4
4.900	4.54	43.36	0.00	104.3
5.000	3.93	40.87	0.00	90.3
5.000	3.93	3.93	0.00	90.3
5.100	43.36	4.54	0.00	104.3
5.200	42.67	5.41	0.00	124.4
5.300	31.63	6.69	0.00	153.9
5.400	17.89	8.66	0.00	199.1
5.500	11.90	11.90	0.00	273.6
5.600	8.65	17.90	0.00	199.0
5.700	6.68	31.65	0.00	153.7
5.800	5.40	42.76	0.00	124.3
5.900	4.53	43.45	0.00	104.3
6.000	3.92	40.92	0.00	90.2
6.000	3.92	3.92	0.00	90.1
6.100	42.79	4.53	0.00	104.1
6.200	42.11	5.39	0.00	124.1
6.300	31.72	6.67	0.00	153.5
6.400	17.94	8.64	0.00	198.6
6.500	11.93	11.86	0.00	272.9
6.600	8.68	17.85	0.00	199.5
6.700	6.70	31.59	0.00	154.1
6.800	5.42	42.74	0.00	124.6
6.900	4.54	43.44	0.00	104.5
7.000	3.93	40.97	0.00	90.4

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.93	3.93	0.00	90.4
7.100	35.25	4.53	0.00	104.2
7.200	34.69	5.39	0.00	124.0
7.300	32.04	6.65	0.00	152.9
7.400	18.10	8.58	0.00	197.4
7.500	12.03	11.77	0.00	270.8
7.600	8.73	17.74	0.00	200.9
7.700	6.74	31.74	0.00	154.9
7.800	5.43	43.78	0.00	125.0
7.900	4.55	44.48	0.00	104.6
8.000	3.92	41.73	0.00	90.2
8.000	3.92	3.66	0.00	84.2
8.100	225.12	4.12	0.00	94.8
8.200	115.55	4.76	0.00	109.6
8.300	42.40	5.70	0.00	131.1
8.400	23.58	7.16	0.00	164.6
8.500	15.35	8.94	0.00	205.6
8.600	10.90	11.78	0.00	250.6
8.700	8.18	17.32	0.00	188.1
8.800	6.40	32.51	0.00	147.2
8.900	5.16	58.33	0.00	118.8
9.000	4.28	999.00	0.00	98.3









6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.100 61.1	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
6.200 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
6.300 90.3	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
6.400 97.9	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
6.500 00.7	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
6.600 98.6	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
6.700 91.8	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
6.800 80.2	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
6.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

3F1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
7.100 63.0	279.4	279.4	-279.4	-279.4	295.8	295.8	-263.0	-2
7.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
7.300 88.9	279.4	279.4	-279.4	-279.4	269.9	269.9	-288.9	-2
7.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
7.500 95.8	279.4	279.4	-279.4	-279.4	263.0	263.0	-295.8	-2
7.600 92.0	279.4	279.4	-279.4	-279.4	266.8	266.8	-292.0	-2
7.700 83.5	279.4	279.4	-279.4	-279.4	275.3	275.3	-283.5	-2
7.800 70.3	279.4	279.4	-279.4	-279.4	288.5	288.5	-270.3	-2
7.900 52.3	279.4	279.4	-279.4	-279.4	306.5	306.5	-252.3	-2
8.000 29.6	279.4	279.4	-279.4	-279.4	329.2	329.2	-229.6	-2
8.000 29.6	279.4	279.4	-279.4	-279.4	329.2	329.2	-229.6	-2
8.100 56.0	279.4	279.4	-279.4	-279.4	302.8	302.8	-256.0	-2
8.200 77.6	279.4	279.4	-279.4	-279.4	281.2	281.2	-277.6	-2
8.300 94.5	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
8.400 06.6	279.4	279.4	-279.4	-279.4	252.2	252.2	-306.6	-3
8.500 14.0	279.4	279.4	-279.4	-279.4	244.8	244.8	-314.0	-3
8.600 16.6	279.4	279.4	-279.4	-279.4	242.2	242.2	-316.6	-3
8.700 14.4	279.4	279.4	-279.4	-279.4	244.4	244.4	-314.4	-3
8.800 07.5	279.4	279.4	-279.4	-279.4	251.3	251.3	-307.5	-3
8.900 95.8	279.4	279.4	-279.4	-279.4	263.0	263.0	-295.8	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.14	59.02	5.14	59.02	0.00	118.2
1.200	2.99	30.67	2.99	30.67	0.00	68.7
1.300	2.43	20.91	2.43	20.91	0.00	56.0
1.400	2.28	15.79	2.28	15.79	0.00	52.5
1.500	2.37	12.53	2.37	12.53	0.00	54.4
1.600	2.79	10.20	2.79	10.20	0.00	64.1
1.700	3.63	8.39	3.63	8.39	0.00	83.4
1.800	6.47	6.92	6.47	6.92	0.00	148.9
1.900	25.06	5.68	25.06	5.68	0.00	130.5
2.000	24.51	3.33	24.51	3.33	0.00	76.6
2.000	24.51	3.33	24.51	3.33	0.00	76.6
2.100	24.06	4.36	24.06	4.36	0.00	100.3
2.200	6.14	5.47	6.14	5.47	0.00	125.8
2.300	3.94	6.91	3.94	6.91	0.00	90.6
2.400	3.28	8.95	3.28	8.95	0.00	75.3
2.500	3.06	12.20	3.06	12.20	0.00	70.4
2.600	3.29	10.97	3.29	10.97	0.00	75.6
2.700	3.97	8.60	3.97	8.60	0.00	91.4
2.800	6.37	6.91	6.37	6.91	0.00	146.5
2.900	23.49	5.60	23.49	5.60	0.00	128.7
3.000	17.80	3.92	17.80	3.92	0.00	90.2
3.000	17.80	3.92	17.80	3.92	0.00	90.2
3.100	19.03	5.51	19.03	5.51	0.00	126.7
3.200	6.29	6.84	6.29	6.84	0.00	144.7
3.300	3.94	8.58	3.94	8.58	0.00	90.7
3.400	3.27	11.04	3.27	11.04	0.00	75.1
3.500	3.05	14.97	3.05	14.97	0.00	70.1
3.600	3.28	11.19	3.28	11.19	0.00	75.4
3.700	3.97	8.68	3.97	8.68	0.00	91.4
3.800	6.37	6.90	6.37	6.90	0.00	146.5
3.900	23.57	5.54	23.57	5.54	0.00	127.4
4.000	21.73	3.89	21.73	3.89	0.00	89.5

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	21.73	3.89	21.73	3.89	0.00	89.5
4.100	23.21	5.53	23.21	5.53	0.00	127.1
4.200	6.38	6.88	6.38	6.88	0.00	146.7
4.300	3.99	8.65	3.99	8.65	0.00	91.7
4.400	3.29	11.15	3.29	11.15	0.00	75.7
4.500	3.07	15.14	3.07	15.14	0.00	70.5
4.600	3.29	11.17	3.29	11.17	0.00	75.7
4.700	3.98	8.67	3.98	8.67	0.00	91.5
4.800	6.36	6.91	6.36	6.91	0.00	146.3
4.900	23.48	5.55	23.48	5.55	0.00	127.7
5.000	21.97	3.91	21.97	3.91	0.00	90.0
5.000	21.97	3.91	21.97	3.91	0.00	90.0
5.100	23.48	5.55	23.48	5.55	0.00	127.7
5.200	6.36	6.91	6.36	6.91	0.00	146.3
5.300	3.98	8.67	3.98	8.67	0.00	91.5
5.400	3.29	11.17	3.29	11.17	0.00	75.7
5.500	3.07	15.14	3.07	15.14	0.00	70.5
5.600	3.29	11.15	3.29	11.15	0.00	75.7
5.700	3.99	8.65	3.99	8.65	0.00	91.7
5.800	6.38	6.88	6.38	6.88	0.00	146.7
5.900	23.21	5.53	23.21	5.53	0.00	127.1
6.000	21.73	3.90	21.73	3.90	0.00	89.6
6.000	21.73	3.90	21.73	3.90	0.00	89.6
6.100	23.57	5.54	23.57	5.54	0.00	127.4
6.200	6.37	6.90	6.37	6.90	0.00	146.5
6.300	3.97	8.68	3.97	8.68	0.00	91.4
6.400	3.28	11.19	3.28	11.19	0.00	75.4
6.500	3.05	14.97	3.05	14.97	0.00	70.1
6.600	3.27	11.04	3.27	11.04	0.00	75.1
6.700	3.94	8.58	3.94	8.58	0.00	90.7
6.800	6.29	6.84	6.29	6.84	0.00	144.7
6.900	19.03	5.51	19.03	5.51	0.00	126.7
7.000	17.80	3.93	17.80	3.93	0.00	90.3

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	17.80	3.93	17.80	3.93	0.00	90.3
7.100	23.49	5.60	23.49	5.60	0.00	128.7
7.200	6.37	6.91	6.37	6.91	0.00	146.5
7.300	3.97	8.60	3.97	8.60	0.00	91.4
7.400	3.29	10.97	3.29	10.97	0.00	75.6
7.500	3.06	12.20	3.06	12.20	0.00	70.4
7.600	3.28	8.95	3.28	8.95	0.00	75.3
7.700	3.94	6.91	3.94	6.91	0.00	90.6
7.800	6.14	5.47	6.14	5.47	0.00	125.8
7.900	24.06	4.36	24.06	4.36	0.00	100.3
8.000	24.51	3.33	24.51	3.33	0.00	76.6
8.000	24.51	3.33	24.51	3.33	0.00	76.6
8.100	25.06	5.68	25.06	5.68	0.00	130.5
8.200	6.47	6.92	6.47	6.92	0.00	148.9
8.300	3.63	8.39	3.63	8.39	0.00	83.4
8.400	2.79	10.20	2.79	10.20	0.00	64.1
8.500	2.37	12.53	2.37	12.53	0.00	54.4
8.600	2.28	15.79	2.28	15.79	0.00	52.5
8.700	2.43	20.91	2.43	20.91	0.00	56.0
8.800	2.99	30.67	2.99	30.67	0.00	68.7
8.900	5.14	59.02	5.14	59.02	0.00	118.2
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
1.000	0.0	0.0	0.00 R	0.00
1.100	1.2	15.2	51.90 R	39.92
1.200	2.1	26.0	83.73 R	64.41
1.300	2.6	32.4	103.93 R	79.95
1.400	2.8	34.4	113.24 R	87.11
1.500	2.6	32.1	110.49 L	84.99
1.600	2.0	25.2	96.53 L	74.25
1.700	1.1	14.0	73.89 L	56.84
1.800	-0.2	-1.7	-43.14 R	-33.19
1.900	-1.8	-21.7	-48.53 R	-37.33
2.000	-3.8	-46.0	-82.51 R	-63.47
2.000	-3.8	-46.0	-82.51 R	-63.47
2.100	-2.1	-25.0	-61.98 L	-47.68
2.200	-0.7	-8.4	-52.98 L	-40.76
2.300	0.3	3.9	71.19 R	54.77
2.400	0.9	11.7	86.98 R	66.91
2.500	1.2	15.2	89.18 R	68.60
2.600	1.1	14.2	85.78 L	65.98
2.700	0.7	8.8	69.04 L	53.11
2.800	-0.1	-1.0	-43.35 R	-33.35
2.900	-1.3	-15.1	-50.57 R	-38.90
3.000	-2.8	-33.7	-72.40 R	-55.69
3.000	-2.8	-33.7	-72.40 R	-55.69
3.100	-1.2	-14.2	-51.54 L	-39.65
3.200	0.0	0.8	-44.06 L	-33.89
3.300	0.9	11.5	68.84 R	52.96
3.400	1.4	17.8	85.09 R	65.46
3.500	1.6	19.7	87.91 R	67.62
3.600	1.4	17.1	85.01 L	65.39
3.700	0.8	10.1	68.69 L	52.84
3.800	-0.1	-1.2	-43.36 R	-33.36
3.900	-1.4	-16.9	-50.72 R	-39.02
4.000	-3.0	-37.0	-71.69 R	-55.15

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-37.0	-71.69 R	0.00
4.100	-1.4	-17.2	-50.79 L	0.00
4.200	-0.2	-1.7	-43.42 L	0.00
4.300	0.7	9.5	68.68 R	0.00
4.400	1.3	16.2	84.96 R	0.00
4.500	1.5	18.6	87.81 R	0.00
4.600	1.3	16.5	84.95 L	0.00
4.700	0.8	9.9	68.67 L	0.00
4.800	-0.1	-1.0	-43.37 R	0.00
4.900	-1.3	-16.3	-50.74 R	0.00
5.000	-2.9	-35.9	-71.64 R	0.00
5.000	-2.9	-35.9	-71.64 R	0.00
5.100	-1.3	-16.3	-50.74 L	0.00
5.200	-0.1	-1.0	-43.37 L	0.00
5.300	0.8	9.9	68.67 R	0.00
5.400	1.3	16.5	84.95 R	0.00
5.500	1.5	18.6	87.81 L	0.00
5.600	1.3	16.2	84.96 L	0.00
5.700	0.7	9.5	68.68 L	0.00
5.800	-0.2	-1.7	-43.42 R	0.00
5.900	-1.4	-17.2	-50.79 R	0.00
6.000	-3.0	-37.0	-71.69 L	0.00
6.000	-3.0	-37.0	-71.69 L	0.00
6.100	-1.4	-16.9	-50.72 L	0.00
6.200	-0.1	-1.2	-43.37 L	0.00
6.300	0.8	10.1	68.69 R	0.00
6.400	1.4	17.1	85.01 R	0.00
6.500	1.6	19.7	87.91 L	0.00
6.600	1.4	17.8	85.09 L	0.00
6.700	0.9	11.5	68.84 L	0.00
6.800	0.0	0.8	-44.06 R	0.00
6.900	-1.2	-14.2	-51.54 R	0.00
7.000	-2.8	-33.7	-72.40 L	0.00



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-33.7	-72.40 L 0.00	-55.69 0.00
7.100	-1.3	-15.1	-50.57 L 0.00	-38.90 0.00
7.200	-0.1	-1.0	-43.35 L 0.00	-33.35 0.00
7.300	0.7	8.8	69.04 R 0.00	53.11 0.00
7.400	1.1	14.2	85.78 R 0.00	65.98 0.00
7.500	1.2	15.2	89.18 L 0.00	68.60 0.00
7.600	0.9	11.7	86.98 L 0.00	66.91 0.00
7.700	0.3	3.9	71.19 L 0.00	54.77 0.00
7.800	-0.7	-8.4	-52.98 R 0.00	-40.76 0.00
7.900	-2.1	-25.0	-61.98 R 0.00	-47.68 0.00
8.000	-3.8	-46.0	-82.31 L 0.00	-63.31 0.00
8.000	-3.8	-46.0	-82.31 L 0.00	-63.31 0.00
8.100	-1.8	-21.7	-48.54 L 0.00	-37.33 0.00
8.200	-0.2	-1.7	-43.14 L 0.00	-33.19 0.00
8.300	1.1	14.0	73.89 R 0.00	56.84 0.00
8.400	2.0	25.2	96.53 R 0.00	74.25 0.00
8.500	2.6	32.1	110.49 R 0.00	84.99 0.00
8.600	2.8	34.4	113.24 L 0.00	87.11 0.00
8.700	2.6	32.4	103.93 L 0.00	79.95 0.00
8.800	2.1	26.0	83.73 L 0.00	64.41 0.00
8.900	1.2	15.2	51.90 L 0.00	39.92 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

4F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
. 1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6 1.100	300.6C	268.7	-268.7	-300.6C	284.2	252.3	-285.0	-317.
0 1.200	300.6C	268.7	-268.7	-300.6C	272.6	240.6	-296.7	-328.
7 1.300	300.6C	268.7	-268.7	-300.6C	265.7	233.7	-303.6	-335.
6 1.400	300.6C	268.7	-268.7	-300.6C	263.5	231.5	-305.8	-337.
8 1.500	300.6C	268.7	-268.7	-300.6C	266.0	234.0	-303.3	-335.
3 1.600	300.6C	268.7	-268.7	-300.6C	273.4	241.4	-295.9	-327.
9 1.700	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
7 1.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8 1.900	300.6C	268.7	-268.7	-300.6C	324.1	292.1	-245.2	-277.
2 2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8 2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
6 2.100	300.6C	268.7	-268.7	-300.6C	327.7	295.7	-241.6	-273.
5 2.200	300.6C	268.7	-268.7	-300.6C	309.7	277.8	-259.5	-291.
8 2.300	300.6C	268.7	-268.7	-300.6C	296.5	264.5	-272.8	-304.
3 2.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
1 2.500	300.6C	268.7	-268.7	-300.6C	284.2	252.2	-285.1	-317.
0 2.600	300.6C	268.7	-268.7	-300.6C	285.3	253.3	-284.0	-316.
1 2.700	300.6C	268.7	-268.7	-300.6C	291.2	259.2	-278.1	-310.
5 2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
2 2.900	300.6C	268.7	-268.7	-300.6C	317.0	285.1	-252.3	-284.

2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.100	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
5	3.200	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
0	3.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
8	3.400	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
9	3.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
1	3.600	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
6	3.700	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
3	3.800	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
3	3.900	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

4F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
1	4.100	300.6C	268.7	-268.7	-300.6C	319.2	287.2	-250.1	-282.
8	4.200	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8	4.300	300.6C	268.7	-268.7	-300.6C	290.4	258.4	-278.9	-310.
1	4.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
7	4.500	300.6C	268.7	-268.7	-300.6C	280.6	248.6	-288.7	-320.
4	4.600	300.6C	268.7	-268.7	-300.6C	282.9	250.9	-286.4	-318.
3	4.700	300.6C	268.7	-268.7	-300.6C	289.9	258.0	-279.3	-311.
5	4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
0	4.900	300.6C	268.7	-268.7	-300.6C	318.3	286.3	-251.0	-283.
8	5.000	300.6C	268.7	-268.7	-300.6C	339.5	307.5	-229.8	-261.
8	5.000	300.6C	268.7	-268.7	-300.6C	339.5	307.5	-229.8	-261.
0	5.100	300.6C	268.7	-268.7	-300.6C	318.3	286.3	-251.0	-283.
5	5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	5.300	300.6C	268.7	-268.7	-300.6C	289.9	258.0	-279.3	-311.
4	5.400	300.6C	268.7	-268.7	-300.6C	282.9	250.9	-286.4	-318.
7	5.500	300.6C	268.7	-268.7	-300.6C	280.6	248.6	-288.7	-320.
1	5.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
8	5.700	300.6C	268.7	-268.7	-300.6C	290.4	258.4	-278.9	-310.
8	5.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
1	5.900	300.6C	268.7	-268.7	-300.6C	319.2	287.2	-250.1	-282.

6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
3	6.100	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
3	6.200	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
1	6.400	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
9	6.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
8	6.600	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
0	6.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
5	6.800	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
2	6.900	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
2	7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.

## MOMENT CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
7.100	300.6C	268.7	-268.7	-300.6C	317.0	285.1	-252.3	-284.
7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
7.300	300.6C	268.7	-268.7	-300.6C	291.2	259.2	-278.1	-310.
7.400	300.6C	268.7	-268.7	-300.6C	285.3	253.3	-284.0	-316.
7.500	300.6C	268.7	-268.7	-300.6C	284.2	252.2	-285.1	-317.
7.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
7.700	300.6C	268.7	-268.7	-300.6C	296.5	264.5	-272.8	-304.
7.800	300.6C	268.7	-268.7	-300.6C	309.7	277.8	-259.5	-291.
7.900	300.6C	268.7	-268.7	-300.6C	327.7	295.7	-241.6	-273.
8.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8.100	300.6C	268.7	-268.7	-300.6C	324.1	292.1	-245.2	-277.
8.200	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8.300	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
8.400	300.6C	268.7	-268.7	-300.6C	273.4	241.4	-295.9	-327.
8.500	300.6C	268.7	-268.7	-300.6C	266.0	234.0	-303.3	-335.
8.600	300.6C	268.7	-268.7	-300.6C	263.5	231.5	-305.8	-337.
8.700	300.6C	268.7	-268.7	-300.6C	265.7	233.7	-303.6	-335.
8.800	300.6C	268.7	-268.7	-300.6C	272.6	240.6	-296.7	-328.
8.900	300.6C	268.7	-268.7	-300.6C	284.2	252.3	-285.0	-317.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	+bend	-bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.48	52.86	4.86	58.79	0.00	131.2
1.200	3.26	27.51	2.87	30.48	0.00	77.6
1.300	2.56	18.77	2.25	20.75	0.00	60.7
1.400	2.33	14.18	2.04	15.66	0.00	55.2
1.500	2.41	11.25	2.12	12.44	0.00	57.2
1.600	2.83	9.14	2.50	10.13	0.00	67.5
1.700	3.87	7.52	3.43	8.36	0.00	92.7
1.800	7.62	6.18	6.82	6.93	0.00	167.0
1.900	25.22	5.05	22.73	5.71	0.00	136.4
2.000	24.25	2.65	22.04	3.04	0.00	71.6
2.000	24.25	2.65	22.04	3.04	0.00	71.6
2.100	45.91	3.90	41.43	4.41	0.00	105.2
2.200	7.12	4.90	6.39	5.50	0.00	132.3
2.300	4.16	6.20	3.71	6.93	0.00	100.3
2.400	3.31	8.04	2.94	8.96	0.00	79.5
2.500	3.19	10.97	2.83	12.20	0.00	76.4
2.600	3.33	9.83	2.95	10.93	0.00	79.7
2.700	4.22	7.70	3.75	8.59	0.00	101.4
2.800	7.48	6.17	6.69	6.91	0.00	166.6
2.900	23.68	4.99	21.29	5.62	0.00	134.7
3.000	17.72	3.21	16.04	3.65	0.00	86.6
3.000	17.72	3.21	16.04	3.65	0.00	86.6
3.100	19.19	4.91	17.25	5.53	0.00	132.7
3.200	7.39	6.12	6.60	6.84	0.00	165.2
3.300	4.19	7.68	3.72	8.56	0.00	100.5
3.400	3.31	9.90	2.93	11.00	0.00	79.2
3.500	3.18	13.42	2.81	14.90	0.00	76.0
3.600	3.32	10.02	2.94	11.14	0.00	79.5
3.700	4.22	7.76	3.75	8.65	0.00	101.3
3.800	7.48	6.16	6.69	6.90	0.00	166.4
3.900	23.75	4.93	21.37	5.57	0.00	133.2
4.000	21.54	3.19	19.52	3.63	0.00	86.1



## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	+bend	-bend		
4.000	21.54	3.19	19.52	3.63	0.00	86.1
4.100	23.39	4.92	21.05	5.55	0.00	132.9
4.200	7.49	6.15	6.70	6.88	0.00	165.9
4.300	4.23	7.74	3.76	8.62	0.00	101.6
4.400	3.33	9.98	2.96	11.10	0.00	79.8
4.500	3.19	13.56	2.83	15.06	0.00	76.4
4.600	3.33	10.00	2.95	11.12	0.00	79.7
4.700	4.22	7.76	3.76	8.65	0.00	101.4
4.800	7.47	6.17	6.68	6.91	0.00	166.6
4.900	23.67	4.95	21.29	5.58	0.00	133.6
5.000	21.78	3.21	19.73	3.65	0.00	86.6
5.100	23.67	4.95	21.29	5.58	0.00	133.6
5.200	7.47	6.17	6.68	6.91	0.00	166.6
5.300	4.22	7.76	3.76	8.65	0.00	101.4
5.400	3.33	10.00	2.95	11.12	0.00	79.7
5.500	3.19	13.56	2.83	15.06	0.00	76.4
5.600	3.33	9.98	2.96	11.10	0.00	79.8
5.700	4.23	7.74	3.76	8.62	0.00	101.6
5.800	7.49	6.15	6.70	6.88	0.00	165.9
5.900	23.39	4.92	21.05	5.55	0.00	132.9
6.000	21.54	3.19	19.52	3.63	0.00	86.1
6.100	23.75	4.93	21.37	5.57	0.00	133.2
6.200	7.48	6.16	6.69	6.90	0.00	166.4
6.300	4.22	7.76	3.75	8.65	0.00	101.3
6.400	3.32	10.02	2.94	11.14	0.00	79.5
6.500	3.18	13.42	2.81	14.90	0.00	76.0
6.600	3.31	9.90	2.93	11.00	0.00	79.2
6.700	4.19	7.68	3.72	8.56	0.00	100.5
6.800	7.39	6.12	6.60	6.84	0.00	165.2
6.900	19.19	4.91	17.25	5.53	0.00	132.7
7.000	17.72	3.21	16.04	3.65	0.00	86.6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	17.72	3.21	16.04	3.65	0.00	86.6
7.100	23.68	4.99	21.29	5.62	0.00	134.7
7.200	7.48	6.17	6.69	6.91	0.00	166.6
7.300	4.22	7.70	3.75	8.59	0.00	101.4
7.400	3.33	9.83	2.95	10.93	0.00	79.7
7.500	3.19	10.97	2.83	12.20	0.00	76.4
7.600	3.31	8.04	2.94	8.96	0.00	79.5
7.700	4.16	6.20	3.71	6.93	0.00	100.3
7.800	7.12	4.90	6.39	5.50	0.00	132.3
7.900	45.91	3.90	41.43	4.41	0.00	105.2
8.000	24.25	2.66	22.04	3.05	0.00	71.8
8.000	24.25	2.66	22.04	3.05	0.00	71.8
8.100	25.22	5.05	22.73	5.71	0.00	136.4
8.200	7.62	6.18	6.82	6.93	0.00	167.0
8.300	3.87	7.52	3.43	8.36	0.00	92.7
8.400	2.83	9.14	2.50	10.13	0.00	67.5
8.500	2.41	11.25	2.12	12.43	0.00	57.2
8.600	2.33	14.18	2.04	15.66	0.00	55.2
8.700	2.56	18.77	2.25	20.75	0.00	60.7
8.800	3.26	27.51	2.87	30.48	0.00	77.6
8.900	5.48	52.86	4.86	58.79	0.00	131.2
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	7.3	26.15	0.00	20.12	0.00
1.100	0.4	5.4	21.70	0.00	16.69	0.00
1.200	0.3	3.6	17.51	0.00	13.47	0.00
1.300	0.1	1.8	13.81	0.00	10.62	0.00
1.400	0.0	-0.1	10.58	0.00	8.14	0.00
1.500	-0.2	-1.9	-12.69	0.00	-9.76	0.00
1.600	-0.3	-3.8	-16.29	0.00	-12.53	0.00
1.700	-0.5	-5.6	-19.93	0.00	-15.33	0.00
1.800	-0.6	-7.4	-23.19	0.00	-17.84	0.00
1.900	-0.8	-9.3	-26.99	0.00	-20.76	0.00
2.000	-0.9	-11.1	-30.46	0.00	-23.43	0.00
2.000	0.8	-11.1	28.20	0.00	21.69	0.00
2.100	0.6	7.9	24.50	0.00	18.84	0.00
2.200	0.5	6.0	20.97	0.00	16.13	0.00
2.300	0.3	4.2	17.14	0.00	13.19	0.00
2.400	0.2	2.4	13.13	0.00	10.10	0.00
2.500	0.0	0.6	-9.46	0.00	-7.27	0.00
2.600	-0.1	-1.4	-13.53	0.00	-10.41	0.00
2.700	-0.3	-3.2	-17.49	0.00	-13.45	0.00
2.800	-0.4	-5.0	-21.23	0.00	-16.33	0.00
2.900	-0.6	-6.8	-24.80	0.00	-19.08	0.00
3.000	-0.7	-8.7	-28.64	0.00	-22.03	0.00
3.000	0.7	9.0	28.49	0.00	21.92	0.00
3.100	0.6	7.2	24.62	0.00	18.94	0.00
3.200	0.4	5.4	21.07	0.00	16.21	0.00
3.300	0.3	3.5	17.29	0.00	13.30	0.00
3.400	0.1	1.7	13.30	0.00	10.23	0.00
3.500	0.0	-0.1	-9.25	0.00	-7.12	0.00
3.600	-0.2	-2.0	-13.33	0.00	-10.25	0.00
3.700	-0.3	-3.8	-17.31	0.00	-13.32	0.00
3.800	-0.5	-5.7	-21.09	0.00	-16.22	0.00
3.900	-0.6	-7.5	-24.65	0.00	-18.96	0.00
4.000	-0.8	-9.3	-28.51	0.00	-21.93	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-9.3	28.50	0.00	21.93	0.00
4.100	0.6	7.4	24.63	0.00	18.95	0.00
4.200	0.5	5.6	21.07	0.00	16.21	0.00
4.300	0.3	3.7	17.30	0.00	13.31	0.00
4.400	0.2	1.9	13.31	0.00	10.24	0.00
4.500	0.0	0.1	9.24	0.00	-7.11	0.00
4.600	-0.1	-1.8	-13.31	0.00	-10.24	0.00
4.700	-0.3	-3.6	-17.30	0.00	-13.31	0.00
4.800	-0.4	-5.5	-21.08	0.00	-16.21	0.00
4.900	-0.6	-7.3	-24.64	0.00	-18.95	0.00
5.000	-0.7	-9.1	-28.50	0.00	-21.93	0.00
5.000	0.7	9.1	28.50	0.00	21.93	0.00
5.100	0.6	7.3	24.64	0.00	18.95	0.00
5.200	0.4	5.5	21.08	0.00	16.21	0.00
5.300	0.3	3.6	17.30	0.00	13.31	0.00
5.400	0.1	1.8	13.31	0.00	10.24	0.00
5.500	0.0	-0.1	9.24	0.00	7.11	0.00
5.600	-0.2	-1.9	-13.31	0.00	-10.24	0.00
5.700	-0.3	-3.7	-17.30	0.00	-13.31	0.00
5.800	-0.5	-5.6	-21.07	0.00	-16.21	0.00
5.900	-0.6	-7.4	-24.63	0.00	-18.95	0.00
6.000	-0.7	-9.2	-28.50	0.00	-21.93	0.00
6.000	0.8	9.3	28.51	0.00	21.93	0.00
6.100	0.6	7.5	24.65	0.00	18.96	0.00
6.200	0.5	5.7	21.09	0.00	16.22	0.00
6.300	0.3	3.8	17.31	0.00	13.32	0.00
6.400	0.2	2.0	13.33	0.00	10.25	0.00
6.500	0.0	0.2	9.25	0.00	7.12	0.00
6.600	-0.1	-1.7	-13.30	0.00	-10.23	0.00
6.700	-0.3	-3.5	-17.29	0.00	-13.30	0.00
6.800	-0.4	-5.4	-21.07	0.00	-16.21	0.00
6.900	-0.6	-7.2	-24.62	0.00	-18.94	0.00
7.000	-0.7	-9.0	-28.49	0.00	-21.92	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-9.0	28.64	0.00	22.03	0.00
7.100	0.6	6.8	24.80	0.00	19.08	0.00
7.200	0.4	5.0	21.23	0.00	16.33	0.00
7.300	0.3	3.2	17.49	0.00	13.45	0.00
7.400	0.1	1.4	13.53	0.00	10.41	0.00
7.500	0.0	-0.5	9.46	0.00	7.27	0.00
7.600	-0.2	-2.4	-13.13	0.00	-10.10	0.00
7.700	-0.3	-4.2	-17.14	0.00	-13.19	0.00
7.800	-0.5	-6.0	-20.97	0.00	-16.13	0.00
7.900	-0.6	-7.9	-24.50	0.00	-18.84	0.00
8.000	-0.8	-9.7	-28.34	0.00	-21.80	0.00
8.000	0.9	11.1	30.46	0.00	23.43	0.00
8.100	0.8	9.3	26.99	0.00	20.76	0.00
8.200	0.6	7.4	23.19	0.00	17.84	0.00
8.300	0.5	5.6	19.93	0.00	15.33	0.00
8.400	0.3	3.8	16.29	0.00	12.53	0.00
8.500	0.2	1.9	12.69	0.00	9.76	0.00
8.600	0.0	0.1	-10.58	0.00	-8.14	0.00
8.700	-0.1	-1.8	-13.81	0.00	-10.62	0.00
8.800	-0.3	-3.6	-17.51	0.00	-13.47	0.00
8.900	-0.4	-5.4	-21.70	0.00	-16.69	0.00
9.000	-0.6	-7.3	-26.15	0.00	-20.12	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-124.2	108.5
1.100	151.3	-122.2	110.5
1.200	151.3	-120.3	112.5
1.300	151.3	-118.3	114.5
1.400	151.3	-116.3	116.4
1.500	151.3	-114.3	118.4
1.600	151.3	-112.3	120.5
1.700	151.3	-110.3	122.4
1.800	151.3	-108.3	124.4
1.900	151.3	-106.3	126.4
2.000	151.3	-104.4	128.4
2.000	151.3	-104.4	105.9
2.100	151.3	-124.9	107.9
2.200	151.3	-122.9	109.8
2.300	151.3	-120.9	111.8
2.400	151.3	-118.9	113.8
2.500	151.3	-117.0	115.8
2.600	151.3	-114.9	117.8
2.700	151.3	-112.9	119.8
2.800	151.3	-111.0	121.8
2.900	151.3	-109.0	123.8
3.000	151.3	-107.0	117.1
3.000	151.3	-107.0	106.6
3.100	151.3	-124.2	108.6
3.200	151.3	-122.2	110.6
3.300	151.3	-120.2	112.5
3.400	151.3	-118.2	114.5
3.500	151.3	-116.3	116.5
3.600	151.3	-114.2	118.5
3.700	151.3	-112.2	120.5
3.800	151.3	-110.3	122.5
3.900	151.3	-108.3	124.5
4.000	151.3	-106.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-106.3	106.4
4.100	151.3	-124.4	108.4
4.200	151.3	-122.4	110.4
4.300	151.3	-120.4	112.3
4.400	151.3	-118.4	114.3
4.500	151.3	-116.5	116.3
4.600	151.3	-114.4	118.3
4.700	151.3	-112.4	120.3
4.800	151.3	-110.5	122.3
4.900	151.3	-108.5	124.3
5.000	151.3	-106.5	117.1
5.000	151.3	-106.5	106.5
5.100	151.3	-124.3	108.5
5.200	151.3	-122.3	110.5
5.300	151.3	-120.3	112.4
5.400	151.3	-118.3	114.4
5.500	151.3	-116.4	116.4
5.600	151.3	-114.3	118.4
5.700	151.3	-112.3	120.4
5.800	151.3	-110.4	122.4
5.900	151.3	-108.4	124.4
6.000	151.3	-106.4	117.1
6.000	151.3	-106.4	106.3
6.100	151.3	-124.5	108.3
6.200	151.3	-122.5	110.3
6.300	151.3	-120.5	112.2
6.400	151.3	-118.5	114.2
6.500	151.3	-116.6	116.2
6.600	151.3	-114.5	118.2
6.700	151.3	-112.5	120.2
6.800	151.3	-110.6	122.2
6.900	151.3	-108.6	124.2
7.000	151.3	-106.6	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-106.6	107.0
7.100	151.3	-123.8	109.0
7.200	151.3	-121.8	111.0
7.300	151.3	-119.8	112.9
7.400	151.3	-117.8	114.9
7.500	151.3	-115.8	116.9
7.600	151.3	-113.8	118.9
7.700	151.3	-111.8	120.9
7.800	151.3	-109.8	122.9
7.900	151.3	-107.9	124.9
8.000	151.3	-105.9	117.2
8.000	151.3	-105.9	104.4
8.100	151.3	-126.4	106.3
8.200	151.3	-124.4	108.3
8.300	151.3	-122.4	110.3
8.400	151.3	-120.5	112.3
8.500	151.3	-118.5	114.3
8.600	151.3	-116.4	116.3
8.700	151.3	-114.5	118.3
8.800	151.3	-112.5	120.3
8.900	151.3	-110.5	122.2
9.000	151.3	-108.5	117.0



## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	55.45	4.15	0.00	112.0
1.100	54.56	5.09	0.00	137.5
1.200	39.47	6.43	0.00	173.5
1.300	21.03	8.29	0.00	223.8
1.400	12.94	11.01	0.00	297.3
1.500	9.01	16.91	0.00	243.2
1.600	6.89	27.86	0.00	186.1
1.700	5.53	58.14	0.00	149.4
1.800	4.67	207.28	0.00	126.1
1.900	3.94	210.57	0.00	106.4
2.000	3.43	213.87	0.00	92.5
2.000	3.43	3.76	0.00	92.5
2.100	41.61	4.40	0.00	118.9
2.200	40.95	5.24	0.00	141.4
2.300	40.29	6.52	0.00	176.1
2.400	21.24	8.67	0.00	234.0
2.500	12.37	12.79	0.00	334.0
2.600	8.49	21.37	0.00	229.4
2.700	6.46	32.04	0.00	174.4
2.800	5.23	32.57	0.00	141.1
2.900	4.39	32.89	0.00	118.6
3.000	3.74	31.11	0.00	100.9
3.000	3.74	3.74	0.00	100.9
3.100	40.63	4.41	0.00	119.1
3.200	39.98	5.25	0.00	141.7
3.300	39.34	6.51	0.00	175.8
3.400	21.09	8.61	0.00	232.5
3.500	12.56	12.63	0.00	339.2
3.600	8.57	21.17	0.00	231.4
3.700	6.48	38.76	0.00	175.0
3.800	5.23	39.40	0.00	141.2
3.900	4.39	39.78	0.00	118.6
4.000	3.73	37.43	0.00	100.6

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.73	3.73	0.00	100.6
4.100	40.64	4.40	0.00	118.8
4.200	39.99	5.24	0.00	141.4
4.300	39.35	6.49	0.00	175.3
4.400	21.12	8.59	0.00	231.8
4.500	12.61	12.59	0.00	340.0
4.600	8.59	21.11	0.00	232.0
4.700	6.50	39.27	0.00	175.5
4.800	5.24	39.92	0.00	141.5
4.900	4.40	40.30	0.00	118.9
5.000	3.74	37.98	0.00	100.9
5.000	3.74	3.74	0.00	100.9
5.100	40.56	4.40	0.00	118.9
5.200	39.92	5.24	0.00	141.5
5.300	39.27	6.50	0.00	175.5
5.400	21.11	8.59	0.00	232.0
5.500	12.60	12.60	0.00	340.1
5.600	8.59	21.12	0.00	231.8
5.700	6.49	39.35	0.00	175.3
5.800	5.24	39.99	0.00	141.4
5.900	4.40	40.38	0.00	118.8
6.000	3.73	38.03	0.00	100.8
6.000	3.73	3.73	0.00	100.6
6.100	40.04	4.39	0.00	118.6
6.200	39.40	5.23	0.00	141.2
6.300	38.76	6.48	0.00	175.0
6.400	21.17	8.57	0.00	231.4
6.500	12.64	12.56	0.00	339.0
6.600	8.61	21.09	0.00	232.5
6.700	6.51	39.34	0.00	175.8
6.800	5.25	39.98	0.00	141.7
6.900	4.41	40.37	0.00	119.1
7.000	3.74	38.07	0.00	101.0

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.74	3.74	0.00	100.9
7.100	33.10	4.39	0.00	118.6
7.200	32.57	5.23	0.00	141.1
7.300	32.04	6.46	0.00	174.4
7.400	21.37	8.49	0.00	229.4
7.500	12.79	12.36	0.00	333.8
7.600	8.67	21.24	0.00	234.0
7.700	6.52	40.29	0.00	176.1
7.800	5.24	40.95	0.00	141.4
7.900	4.40	41.34	0.00	118.9
8.000	3.74	38.78	0.00	100.9
8.000	3.74	3.43	0.00	92.5
8.100	210.57	3.94	0.00	106.4
8.200	207.28	4.67	0.00	126.1
8.300	58.14	5.53	0.00	149.4
8.400	27.86	6.89	0.00	186.1
8.500	16.92	9.00	0.00	243.1
8.600	11.01	12.94	0.00	297.3
8.700	8.29	21.03	0.00	223.8
8.800	6.43	39.47	0.00	173.5
8.900	5.09	54.56	0.00	137.5
9.000	4.15	999.00	0.00	112.0



3.000	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
43.0								
3.000	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
43.0								
3.100	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
64.0								
3.200	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
80.2								
3.300	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
91.8								
3.400	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
98.6								
3.500	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
00.7								
3.600	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
97.9								
3.700	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
90.3								
3.800	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
78.1								
3.900	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
61.1								
4.000	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
39.3								



6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.100 61.1	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
6.200 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
6.300 90.3	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
6.400 97.9	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
6.500 00.7	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
6.600 98.6	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
6.700 91.8	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
6.800 80.2	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
6.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2





9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.07	54.85	5.07	54.85	0.00	136.8
1.200	3.00	28.51	3.00	28.51	0.00	81.0
1.300	2.35	19.43	2.35	19.43	0.00	63.5
1.400	2.14	14.68	2.14	14.68	0.00	57.8
1.500	2.21	11.65	2.21	11.65	0.00	59.8
1.600	2.61	9.48	2.61	9.48	0.00	70.5
1.700	3.58	7.80	3.58	7.80	0.00	96.6
1.800	7.09	6.43	7.09	6.43	0.00	173.7
1.900	23.57	5.27	23.57	5.27	0.00	142.4
2.000	22.78	2.78	22.78	2.78	0.00	75.1
2.000	22.78	2.78	22.78	2.78	0.00	75.1
2.100	42.93	4.07	42.93	4.07	0.00	109.9
2.200	6.64	5.10	6.64	5.10	0.00	137.7
2.300	3.87	6.45	3.87	6.45	0.00	104.4
2.400	3.07	8.35	3.07	8.35	0.00	82.8
2.500	2.95	11.39	2.95	11.39	0.00	79.6
2.600	3.08	10.20	3.08	10.20	0.00	83.1
2.700	3.91	8.00	3.91	8.00	0.00	105.6
2.800	6.96	6.42	6.96	6.42	0.00	173.3
2.900	22.09	5.20	22.09	5.20	0.00	140.4
3.000	16.60	3.36	16.60	3.36	0.00	90.6
3.000	16.60	3.36	16.60	3.36	0.00	90.6
3.100	17.91	5.12	17.91	5.12	0.00	138.3
3.200	6.86	6.36	6.86	6.36	0.00	171.8
3.300	3.88	7.98	3.88	7.98	0.00	104.7
3.400	3.06	10.27	3.06	10.27	0.00	82.6
3.500	2.94	13.92	2.94	13.92	0.00	79.3
3.600	3.07	10.40	3.07	10.40	0.00	82.9
3.700	3.91	8.06	3.91	8.06	0.00	105.5
3.800	6.95	6.41	6.95	6.41	0.00	173.1
3.900	22.17	5.15	22.17	5.15	0.00	139.0
4.000	20.20	3.34	20.20	3.34	0.00	90.1

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	20.20	3.34	20.20	3.34	0.00	90.1
4.100	21.83	5.14	21.83	5.14	0.00	138.6
4.200	6.96	6.39	6.96	6.39	0.00	172.6
4.300	3.92	8.04	3.92	8.04	0.00	105.8
4.400	3.08	10.36	3.08	10.36	0.00	83.2
4.500	2.95	14.07	2.95	14.07	0.00	79.7
4.600	3.08	10.38	3.08	10.38	0.00	83.2
4.700	3.91	8.06	3.91	8.06	0.00	105.7
4.800	6.95	6.42	6.95	6.42	0.00	173.3
4.900	22.09	5.16	22.09	5.16	0.00	139.3
5.000	20.42	3.36	20.42	3.36	0.00	90.7
5.000	20.42	3.36	20.42	3.36	0.00	90.7
5.100	22.09	5.16	22.09	5.16	0.00	139.3
5.200	6.95	6.42	6.95	6.42	0.00	173.3
5.300	3.91	8.06	3.91	8.06	0.00	105.7
5.400	3.08	10.38	3.08	10.38	0.00	83.2
5.500	2.95	14.07	2.95	14.07	0.00	79.7
5.600	3.08	10.36	3.08	10.36	0.00	83.2
5.700	3.92	8.04	3.92	8.04	0.00	105.8
5.800	6.96	6.39	6.96	6.39	0.00	172.6
5.900	21.83	5.14	21.83	5.14	0.00	138.6
6.000	20.20	3.34	20.20	3.34	0.00	90.1
6.000	20.20	3.34	20.20	3.34	0.00	90.1
6.100	22.17	5.15	22.17	5.15	0.00	139.0
6.200	6.95	6.41	6.95	6.41	0.00	173.1
6.300	3.91	8.06	3.91	8.06	0.00	105.5
6.400	3.07	10.40	3.07	10.40	0.00	82.9
6.500	2.94	13.92	2.94	13.92	0.00	79.3
6.600	3.06	10.27	3.06	10.27	0.00	82.6
6.700	3.88	7.98	3.88	7.98	0.00	104.7
6.800	6.86	6.36	6.86	6.36	0.00	171.8
6.900	17.91	5.12	17.91	5.12	0.00	138.3
7.000	16.60	3.36	16.60	3.36	0.00	90.6

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	16.60	3.36	16.60	3.36	0.00	90.6
7.100	22.09	5.20	22.09	5.20	0.00	140.4
7.200	6.96	6.42	6.96	6.42	0.00	173.3
7.300	3.91	8.00	3.91	8.00	0.00	105.6
7.400	3.08	10.20	3.08	10.20	0.00	83.1
7.500	2.95	11.39	2.95	11.39	0.00	79.6
7.600	3.07	8.35	3.07	8.35	0.00	82.8
7.700	3.87	6.45	3.87	6.45	0.00	104.4
7.800	6.64	5.10	6.64	5.10	0.00	137.7
7.900	42.93	4.07	42.93	4.07	0.00	109.9
8.000	22.78	2.79	22.78	2.79	0.00	75.3
8.000	22.78	2.79	22.78	2.79	0.00	75.3
8.100	23.57	5.27	23.57	5.27	0.00	142.4
8.200	7.09	6.43	7.09	6.43	0.00	173.7
8.300	3.58	7.80	3.58	7.80	0.00	96.6
8.400	2.61	9.48	2.61	9.48	0.00	70.5
8.500	2.21	11.65	2.21	11.65	0.00	59.8
8.600	2.14	14.68	2.14	14.68	0.00	57.8
8.700	2.35	19.43	2.35	19.43	0.00	63.5
8.800	3.00	28.51	3.00	28.51	0.00	81.0
8.900	5.07	54.85	5.07	54.85	0.00	136.8
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
1.000	0.0	0.0	0.00 R	0.00
1.100	1.2	15.2	49.68 R	0.00
1.200	2.1	26.0	81.56 R	0.00
1.300	2.6	32.4	97.36 R	0.00
1.400	2.8	34.4	101.57 L	0.00
1.500	2.6	32.1	98.72 L	0.00
1.600	2.0	25.2	90.45 L	0.00
1.700	1.1	14.0	75.15 R	0.00
1.800	-0.2	-1.7	52.33 R	0.00
1.900	-1.8	-21.7	-43.84 L	0.00
2.000	-3.8	-46.0	-73.05 R	0.00
2.000	-3.8	-46.0	-73.05 R	0.00
2.100	-2.1	-25.0	-53.16 L	0.00
2.200	-0.7	-8.4	46.63 R	0.00
2.300	0.3	3.9	68.27 R	0.00
2.400	0.9	11.7	79.69 R	0.00
2.500	1.2	15.2	84.06 R	0.00
2.600	1.1	14.2	80.90 L	0.00
2.700	0.7	8.8	70.94 R	0.00
2.800	-0.1	-1.0	52.75 R	0.00
2.900	-1.3	-15.1	-41.17 R	0.00
3.000	-2.8	-33.7	-59.68 L	0.00
3.000	-2.8	-33.7	-59.68 L	0.00
3.100	-1.2	-14.2	-42.19 L	0.00
3.200	0.0	0.8	54.76 L	0.00
3.300	0.9	11.5	71.91 L	0.00
3.400	1.4	17.8	80.81 R	0.00
3.500	1.6	19.7	83.64 L	0.00
3.600	1.4	17.1	80.22 L	0.00
3.700	0.8	10.1	70.64 R	0.00
3.800	-0.1	-1.2	52.78 R	0.00
3.900	-1.4	-16.9	-41.47 R	0.00
4.000	-3.0	-37.0	-59.77 L	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-37.0	-59.77 L 0.00	-45.98 0.00
4.100	-1.4	-17.2	-41.54 L 0.00	-31.95 0.00
4.200	-0.2	-1.7	52.93 L 0.00	40.71 0.00
4.300	0.7	9.5	70.71 L 0.00	54.39 0.00
4.400	1.3	16.2	80.21 R 0.00	61.70 0.00
4.500	1.5	18.6	82.99 L 0.00	63.84 0.00
4.600	1.3	16.5	80.17 L 0.00	61.67 0.00
4.700	0.8	9.9	70.62 R 0.00	54.32 0.00
4.800	-0.1	-1.0	52.79 R 0.00	40.61 0.00
4.900	-1.3	-16.3	-41.49 R 0.00	-31.92 0.00
5.000	-2.9	-35.9	-59.77 R 0.00	-45.98 0.00
5.000	-2.9	-35.9	-59.77 R 0.00	-45.98 0.00
5.100	-1.3	-16.3	-41.49 L 0.00	-31.92 0.00
5.200	-0.1	-1.0	52.79 L 0.00	40.61 0.00
5.300	0.8	9.9	70.62 L 0.00	54.32 0.00
5.400	1.3	16.5	80.17 R 0.00	61.67 0.00
5.500	1.5	18.6	82.99 R 0.00	63.84 0.00
5.600	1.3	16.2	80.21 L 0.00	61.70 0.00
5.700	0.7	9.5	70.71 R 0.00	54.39 0.00
5.800	-0.2	-1.7	52.93 R 0.00	40.71 0.00
5.900	-1.4	-17.2	-41.54 R 0.00	-31.95 0.00
6.000	-3.0	-37.0	-59.75 R 0.00	-45.96 0.00
6.000	-3.0	-37.0	-59.75 R 0.00	-45.96 0.00
6.100	-1.4	-16.9	-41.47 L 0.00	-31.90 0.00
6.200	-0.1	-1.2	52.78 L 0.00	40.60 0.00
6.300	0.8	10.1	70.64 L 0.00	54.34 0.00
6.400	1.4	17.1	80.22 R 0.00	61.71 0.00
6.500	1.6	19.7	83.64 R 0.00	64.34 0.00
6.600	1.4	17.8	80.81 L 0.00	62.16 0.00
6.700	0.9	11.5	71.91 R 0.00	55.32 0.00
6.800	0.0	0.8	54.76 R 0.00	42.12 0.00
6.900	-1.2	-14.2	-42.19 R 0.00	-32.46 0.00
7.000	-2.8	-33.7	-59.66 R 0.00	-45.89 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-33.7	-59.66 R 0.00	-45.89 0.00
7.100	-1.3	-15.1	-41.17 L 0.00	-31.67 0.00
7.200	-0.1	-1.0	52.75 L 0.00	40.58 0.00
7.300	0.7	8.8	70.94 L 0.00	54.57 0.00
7.400	1.1	14.2	80.90 R 0.00	62.23 0.00
7.500	1.2	15.2	84.06 L 0.00	64.66 0.00
7.600	0.9	11.7	79.69 L 0.00	61.30 0.00
7.700	0.3	3.9	68.27 L 0.00	52.51 0.00
7.800	-0.7	-8.4	46.63 L 0.00	35.87 0.00
7.900	-2.1	-25.0	-53.16 R 0.00	-40.89 0.00
8.000	-3.8	-46.0	-73.05 L 0.00	-56.19 0.00
8.000	-3.8	-46.0	-73.05 L 0.00	-56.19 0.00
8.100	-1.8	-21.7	-43.84 R 0.00	-33.72 0.00
8.200	-0.2	-1.7	52.33 L 0.00	40.25 0.00
8.300	1.1	14.0	75.15 L 0.00	57.80 0.00
8.400	2.0	25.2	90.45 R 0.00	69.58 0.00
8.500	2.6	32.1	98.72 R 0.00	75.94 0.00
8.600	2.8	34.4	101.57 R 0.00	78.13 0.00
8.700	2.6	32.4	97.36 L 0.00	74.90 0.00
8.800	2.1	26.0	81.56 L 0.00	62.74 0.00
8.900	1.2	15.2	49.68 L 0.00	38.22 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

5C1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
0	1.100	300.6C	268.7	-268.7	-300.6C	284.2	252.3	-285.0	-317.
7	1.200	300.6C	268.7	-268.7	-300.6C	272.6	240.6	-296.7	-328.
6	1.300	300.6C	268.7	-268.7	-300.6C	265.7	233.7	-303.6	-335.
8	1.400	300.6C	268.7	-268.7	-300.6C	263.5	231.5	-305.8	-337.
3	1.500	300.6C	268.7	-268.7	-300.6C	266.0	234.0	-303.3	-335.
9	1.600	300.6C	268.7	-268.7	-300.6C	273.4	241.4	-295.9	-327.
7	1.700	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
8	1.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
2	1.900	300.6C	268.7	-268.7	-300.6C	324.1	292.1	-245.2	-277.
8	2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8	2.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
6	2.100	300.6C	268.7	-268.7	-300.6C	327.7	295.7	-241.6	-273.
5	2.200	300.6C	268.7	-268.7	-300.6C	309.7	277.8	-259.5	-291.
8	2.300	300.6C	268.7	-268.7	-300.6C	296.5	264.5	-272.8	-304.
3	2.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
1	2.500	300.6C	268.7	-268.7	-300.6C	284.2	252.2	-285.1	-317.
0	2.600	300.6C	268.7	-268.7	-300.6C	285.3	253.3	-284.0	-316.
1	2.700	300.6C	268.7	-268.7	-300.6C	291.2	259.2	-278.1	-310.
5	2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
2	2.900	300.6C	268.7	-268.7	-300.6C	317.0	285.1	-252.3	-284.



2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	3.100	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
5	3.200	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
0	3.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
8	3.400	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
9	3.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
1	3.600	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
6	3.700	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
3	3.800	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
3	3.900	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

5C1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	4.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
1	4.100	300.6C	268.7	-268.7	-300.6C	319.2	287.2	-250.1	-282.
8	4.200	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
8	4.300	300.6C	268.7	-268.7	-300.6C	290.4	258.4	-278.9	-310.
1	4.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
7	4.500	300.6C	268.7	-268.7	-300.6C	280.6	248.6	-288.7	-320.
4	4.600	300.6C	268.7	-268.7	-300.6C	282.9	250.9	-286.4	-318.
3	4.700	300.6C	268.7	-268.7	-300.6C	289.9	258.0	-279.3	-311.
5	4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
0	4.900	300.6C	268.7	-268.7	-300.6C	318.3	286.3	-251.0	-283.
8	5.000	300.6C	268.7	-268.7	-300.6C	339.5	307.5	-229.8	-261.
8	5.000	300.6C	268.7	-268.7	-300.6C	339.5	307.5	-229.8	-261.
0	5.100	300.6C	268.7	-268.7	-300.6C	318.3	286.3	-251.0	-283.
5	5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	5.300	300.6C	268.7	-268.7	-300.6C	289.9	258.0	-279.3	-311.
4	5.400	300.6C	268.7	-268.7	-300.6C	282.9	250.9	-286.4	-318.
7	5.500	300.6C	268.7	-268.7	-300.6C	280.6	248.6	-288.7	-320.
1	5.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
8	5.700	300.6C	268.7	-268.7	-300.6C	290.4	258.4	-278.9	-310.
8	5.800	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
1	5.900	300.6C	268.7	-268.7	-300.6C	319.2	287.2	-250.1	-282.

6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
6	6.000	300.6C	268.7	-268.7	-300.6C	340.7	308.7	-228.6	-260.
3	6.100	300.6C	268.7	-268.7	-300.6C	319.0	287.0	-250.3	-282.
3	6.200	300.6C	268.7	-268.7	-300.6C	302.0	270.0	-267.3	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	289.7	257.7	-279.6	-311.
1	6.400	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
9	6.500	300.6C	268.7	-268.7	-300.6C	279.4	247.4	-289.9	-321.
8	6.600	300.6C	268.7	-268.7	-300.6C	281.4	249.4	-287.9	-319.
0	6.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.0	-313.
5	6.800	300.6C	268.7	-268.7	-300.6C	299.8	267.8	-269.5	-301.
2	6.900	300.6C	268.7	-268.7	-300.6C	316.1	284.1	-253.2	-285.
2	7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

5C1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
2	7.000	300.6C	268.7	-268.7	-300.6C	337.1	305.1	-232.2	-264.
2	7.100	300.6C	268.7	-268.7	-300.6C	317.0	285.1	-252.3	-284.
5	7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
1	7.300	300.6C	268.7	-268.7	-300.6C	291.2	259.2	-278.1	-310.
0	7.400	300.6C	268.7	-268.7	-300.6C	285.3	253.3	-284.0	-316.
1	7.500	300.6C	268.7	-268.7	-300.6C	284.2	252.2	-285.1	-317.
3	7.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
8	7.700	300.6C	268.7	-268.7	-300.6C	296.5	264.5	-272.8	-304.
5	7.800	300.6C	268.7	-268.7	-300.6C	309.7	277.8	-259.5	-291.
6	7.900	300.6C	268.7	-268.7	-300.6C	327.7	295.7	-241.6	-273.
8	8.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
8	8.000	300.6C	268.7	-268.7	-300.6C	350.4	318.4	-218.9	-250.
2	8.100	300.6C	268.7	-268.7	-300.6C	324.1	292.1	-245.2	-277.
8	8.200	300.6C	268.7	-268.7	-300.6C	302.5	270.5	-266.8	-298.
7	8.300	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
9	8.400	300.6C	268.7	-268.7	-300.6C	273.4	241.4	-295.9	-327.
3	8.500	300.6C	268.7	-268.7	-300.6C	266.0	234.0	-303.3	-335.
8	8.600	300.6C	268.7	-268.7	-300.6C	263.5	231.5	-305.8	-337.
6	8.700	300.6C	268.7	-268.7	-300.6C	265.7	233.7	-303.6	-335.
7	8.800	300.6C	268.7	-268.7	-300.6C	272.6	240.6	-296.7	-328.
0	8.900	300.6C	268.7	-268.7	-300.6C	284.2	252.3	-285.0	-317.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	0.00
1.100	5.72	60.42	5.08	67.20	0.00
1.200	3.34	31.44	2.95	34.83	0.00
1.300	2.73	21.45	2.40	23.71	0.00
1.400	2.59	16.21	2.28	17.90	0.00
1.500	2.69	12.86	2.37	14.21	0.00
1.600	3.02	10.45	2.67	11.58	0.00
1.700	3.80	8.59	3.38	9.56	0.00
1.800	5.78	7.07	5.17	7.92	0.00
1.900	13.65	5.59	12.30	6.32	0.00
2.000	29.96	3.00	27.23	3.43	0.00
2.000	29.96	3.00	27.23	3.43	0.00
2.100	15.43	4.55	13.93	5.15	0.00
2.200	6.64	5.63	5.96	6.32	0.00
2.300	4.34	6.47	3.88	7.22	0.00
2.400	3.61	7.24	3.21	8.06	0.00
2.500	3.38	7.77	3.00	8.64	0.00
2.600	3.53	8.00	3.13	8.90	0.00
2.700	4.10	7.75	3.65	8.65	0.00
2.800	5.72	7.15	5.11	8.00	0.00
2.900	11.91	6.13	10.71	6.91	0.00
3.000	20.98	3.89	18.99	4.43	0.00
3.000	20.98	3.89	18.99	4.43	0.00
3.100	10.73	6.00	9.64	6.76	0.00
3.200	5.47	7.07	4.89	7.91	0.00
3.300	4.01	7.87	3.56	8.76	0.00
3.400	3.48	8.50	3.09	9.44	0.00
3.500	3.34	8.76	2.96	9.72	0.00
3.600	3.52	8.57	3.12	9.52	0.00
3.700	4.10	7.93	3.65	8.84	0.00
3.800	5.72	7.13	5.11	7.98	0.00
3.900	11.89	6.04	10.70	6.81	0.00
4.000	27.04	3.82	24.50	4.36	0.00

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
4.000	27.04	3.82	24.50	4.36	0.00
4.100	11.81	6.02	10.63	6.79	0.00
4.200	5.72	7.11	5.11	7.96	0.00
4.300	4.11	7.91	3.65	8.82	0.00
4.400	3.53	8.54	3.13	9.49	0.00
4.500	3.38	8.78	2.99	9.76	0.00
4.600	3.53	8.58	3.13	9.54	0.00
4.700	4.11	7.93	3.65	8.84	0.00
4.800	5.72	7.13	5.11	7.99	0.00
4.900	11.85	6.05	10.66	6.82	0.00
5.000	26.81	3.85	24.28	4.38	0.00
5.000	26.81	3.85	24.28	4.38	0.00
5.100	11.85	6.05	10.66	6.82	0.00
5.200	5.72	7.13	5.11	7.99	0.00
5.300	4.11	7.93	3.65	8.84	0.00
5.400	3.53	8.55	3.13	9.50	0.00
5.500	3.38	8.78	2.99	9.76	0.00
5.600	3.53	8.57	3.13	9.52	0.00
5.700	4.11	7.91	3.65	8.82	0.00
5.800	5.72	7.11	5.11	7.96	0.00
5.900	11.81	6.02	10.63	6.79	0.00
6.000	28.17	3.83	25.53	4.36	0.00
6.000	28.17	3.83	25.53	4.36	0.00
6.100	11.89	6.04	10.70	6.81	0.00
6.200	5.72	7.13	5.11	7.98	0.00
6.300	4.10	7.93	3.65	8.84	0.00
6.400	3.52	8.57	3.12	9.52	0.00
6.500	3.34	8.76	2.96	9.72	0.00
6.600	3.48	8.53	3.09	9.48	0.00
6.700	4.01	7.87	3.56	8.76	0.00
6.800	5.47	7.07	4.89	7.91	0.00
6.900	10.73	6.00	9.64	6.76	0.00
7.000	20.98	3.89	18.99	4.43	0.00

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
7.000	20.98	3.89	18.99	4.43	0.00	155.7
7.100	11.91	6.13	10.71	6.91	0.00	245.1
7.200	5.72	7.15	5.11	8.00	0.00	204.5
7.300	4.10	7.75	3.65	8.65	0.00	146.1
7.400	3.53	8.00	3.13	8.90	0.00	125.3
7.500	3.38	7.77	3.00	8.64	0.00	120.0
7.600	3.61	7.24	3.21	8.06	0.00	128.5
7.700	4.34	6.47	3.88	7.22	0.00	155.0
7.800	6.64	5.63	5.96	6.32	0.00	225.1
7.900	15.43	4.55	13.93	5.15	0.00	181.8
8.000	29.96	3.00	27.23	3.43	0.00	119.8
8.000	29.96	3.00	27.23	3.43	0.00	119.8
8.100	13.65	5.59	12.30	6.32	0.00	223.8
8.200	5.78	7.07	5.17	7.92	0.00	206.8
8.300	3.80	8.59	3.38	9.56	0.00	135.0
8.400	3.02	10.45	2.67	11.58	0.00	106.8
8.500	2.69	12.86	2.37	14.21	0.00	94.8
8.600	2.59	16.21	2.28	17.90	0.00	91.2
8.700	2.73	21.45	2.40	23.71	0.00	96.0
8.800	3.34	31.44	2.95	34.83	0.00	118.0
8.900	5.72	60.42	5.08	67.20	0.00	203.1
9.000	999.00	999.00	999.00	999.00	0.00	999.0



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	7.3	24.68	0.00	18.98	0.00
1.100	0.4	5.4	20.77	0.00	15.98	0.00
1.200	0.3	3.6	17.05	0.00	13.12	0.00
1.300	0.1	1.8	13.57	0.00	10.44	0.00
1.400	0.0	-0.1	-10.98	0.00	-8.45	0.00
1.500	-0.2	-1.9	-13.24	0.00	-10.19	0.00
1.600	-0.3	-3.8	-15.87	0.00	-12.21	0.00
1.700	-0.5	-5.6	-18.62	0.00	-14.33	0.00
1.800	-0.6	-7.4	-21.45	0.00	-16.50	0.00
1.900	-0.8	-9.3	-24.44	0.00	-18.80	0.00
2.000	-0.9	-11.1	-27.13	0.00	-20.87	0.00
2.000	0.8	-11.1	25.99	0.00	19.99	0.00
2.100	0.6	7.9	22.95	0.00	17.65	0.00
2.200	0.5	6.0	19.53	0.00	15.03	0.00
2.300	0.3	4.2	16.06	0.00	12.35	0.00
2.400	0.2	2.4	13.38	0.00	10.29	0.00
2.500	0.0	0.6	11.02	0.00	8.48	0.00
2.600	-0.1	-1.4	-13.22	0.00	-10.17	0.00
2.700	-0.3	-3.2	-16.15	0.00	-12.43	0.00
2.800	-0.4	-5.0	-19.38	0.00	-14.91	0.00
2.900	-0.6	-6.8	-22.61	0.00	-17.39	0.00
3.000	-0.7	-8.7	-25.68	0.00	-19.76	0.00
3.000	0.7	9.0	25.42	0.00	19.55	0.00
3.100	0.6	7.2	22.35	0.00	17.19	0.00
3.200	0.4	5.4	19.14	0.00	14.72	0.00
3.300	0.3	3.5	15.99	0.00	12.30	0.00
3.400	0.1	1.7	13.29	0.00	10.22	0.00
3.500	0.0	-0.1	-10.60	0.00	-8.15	0.00
3.600	-0.2	-2.0	-13.30	0.00	-10.23	0.00
3.700	-0.3	-3.8	-16.00	0.00	-12.31	0.00
3.800	-0.5	-5.7	-19.23	0.00	-14.80	0.00
3.900	-0.6	-7.5	-22.48	0.00	-17.29	0.00
4.000	-0.8	-9.3	-25.58	0.00	-19.68	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-9.3	25.56	0.00	19.66	0.00
4.100	0.6	7.4	22.46	0.00	17.28	0.00
4.200	0.5	5.6	19.22	0.00	14.78	0.00
4.300	0.3	3.7	16.00	0.00	12.31	0.00
4.400	0.2	1.9	13.30	0.00	10.23	0.00
4.500	0.0	0.1	10.57	0.00	8.13	0.00
4.600	-0.1	-1.8	-13.30	0.00	-10.23	0.00
4.700	-0.3	-3.6	-16.00	0.00	-12.31	0.00
4.800	-0.4	-5.5	-19.22	0.00	-14.79	0.00
4.900	-0.6	-7.3	-22.47	0.00	-17.29	0.00
5.000	-0.7	-9.1	-25.57	0.00	-19.67	0.00
5.000	0.7	9.1	25.57	0.00	19.67	0.00
5.100	0.6	7.3	22.47	0.00	17.29	0.00
5.200	0.4	5.5	19.22	0.00	14.79	0.00
5.300	0.3	3.6	16.00	0.00	12.31	0.00
5.400	0.1	1.8	13.30	0.00	10.23	0.00
5.500	0.0	-0.1	10.57	0.00	8.13	0.00
5.600	-0.2	-1.9	-13.30	0.00	-10.23	0.00
5.700	-0.3	-3.7	-16.00	0.00	-12.31	0.00
5.800	-0.5	-5.6	-19.22	0.00	-14.78	0.00
5.900	-0.6	-7.4	-22.46	0.00	-17.28	0.00
6.000	-0.7	-9.2	-25.56	0.00	-19.66	0.00
6.000	0.8	9.3	25.58	0.00	19.68	0.00
6.100	0.6	7.5	22.48	0.00	17.29	0.00
6.200	0.5	5.7	19.23	0.00	14.80	0.00
6.300	0.3	3.8	16.00	0.00	12.31	0.00
6.400	0.2	2.0	13.30	0.00	10.23	0.00
6.500	0.0	0.2	10.60	0.00	8.15	0.00
6.600	-0.1	-1.7	-13.29	0.00	-10.22	0.00
6.700	-0.3	-3.5	-15.99	0.00	-12.30	0.00
6.800	-0.4	-5.4	-19.14	0.00	-14.72	0.00
6.900	-0.6	-7.2	-22.35	0.00	-17.19	0.00
7.000	-0.7	-9.0	-25.42	0.00	-19.55	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-9.0	25.68	0.00	19.76	0.00
7.100	0.6	6.8	22.61	0.00	17.39	0.00
7.200	0.4	5.0	19.38	0.00	14.91	0.00
7.300	0.3	3.2	16.15	0.00	12.43	0.00
7.400	0.1	1.4	13.22	0.00	10.17	0.00
7.500	0.0	-0.5	-11.02	0.00	-8.48	0.00
7.600	-0.2	-2.4	-13.38	0.00	-10.29	0.00
7.700	-0.3	-4.2	-16.06	0.00	-12.35	0.00
7.800	-0.5	-6.0	-19.53	0.00	-15.03	0.00
7.900	-0.6	-7.9	-22.95	0.00	-17.65	0.00
8.000	-0.8	-9.7	-26.15	0.00	-20.12	0.00
8.000	0.9	11.1	27.13	0.00	20.87	0.00
8.100	0.8	9.3	24.44	0.00	18.80	0.00
8.200	0.6	7.4	21.45	0.00	16.50	0.00
8.300	0.5	5.6	18.62	0.00	14.33	0.00
8.400	0.3	3.8	15.87	0.00	12.21	0.00
8.500	0.2	1.9	13.24	0.00	10.19	0.00
8.600	0.0	0.1	10.73	0.00	8.26	0.00
8.700	-0.1	-1.8	-13.57	0.00	-10.44	0.00
8.800	-0.3	-3.6	-17.05	0.00	-13.12	0.00
8.900	-0.4	-5.4	-20.77	0.00	-15.98	0.00
9.000	-0.6	-7.3	-24.68	0.00	-18.98	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-124.2	108.5
1.100	151.3	-122.2	110.5
1.200	151.3	-120.3	112.5
1.300	151.3	-118.3	114.5
1.400	151.3	-116.3	116.4
1.500	151.3	-114.3	118.4
1.600	151.3	-112.3	120.5
1.700	151.3	-110.3	122.4
1.800	151.3	-108.3	124.4
1.900	151.3	-106.3	126.4
2.000	151.3	-104.4	128.4
2.000	151.3	-104.4	105.9
2.100	151.3	-124.9	107.9
2.200	151.3	-122.9	109.8
2.300	151.3	-120.9	111.8
2.400	151.3	-118.9	113.8
2.500	151.3	-117.0	115.8
2.600	151.3	-114.9	117.8
2.700	151.3	-112.9	119.8
2.800	151.3	-111.0	121.8
2.900	151.3	-109.0	123.8
3.000	151.3	-107.0	117.1
3.000	151.3	-107.0	106.6
3.100	151.3	-124.2	108.6
3.200	151.3	-122.2	110.6
3.300	151.3	-120.2	112.5
3.400	151.3	-118.2	114.5
3.500	151.3	-116.3	116.5
3.600	151.3	-114.2	118.5
3.700	151.3	-112.2	120.5
3.800	151.3	-110.3	122.5
3.900	151.3	-108.3	124.5
4.000	151.3	-106.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-106.3	106.4
4.100	151.3	-124.4	108.4
4.200	151.3	-122.4	110.4
4.300	151.3	-120.4	112.3
4.400	151.3	-118.4	114.3
4.500	151.3	-116.5	116.3
4.600	151.3	-114.4	118.3
4.700	151.3	-112.4	120.3
4.800	151.3	-110.5	122.3
4.900	151.3	-108.5	124.3
5.000	151.3	-106.5	117.1
5.000	151.3	-106.5	106.5
5.100	151.3	-124.3	108.5
5.200	151.3	-122.3	110.5
5.300	151.3	-120.3	112.4
5.400	151.3	-118.3	114.4
5.500	151.3	-116.4	116.4
5.600	151.3	-114.3	118.4
5.700	151.3	-112.3	120.4
5.800	151.3	-110.4	122.4
5.900	151.3	-108.4	124.4
6.000	151.3	-106.4	117.1
6.000	151.3	-106.4	106.3
6.100	151.3	-124.5	108.3
6.200	151.3	-122.5	110.3
6.300	151.3	-120.5	112.2
6.400	151.3	-118.5	114.2
6.500	151.3	-116.6	116.2
6.600	151.3	-114.5	118.2
6.700	151.3	-112.5	120.2
6.800	151.3	-110.6	122.2
6.900	151.3	-108.6	124.2
7.000	151.3	-106.6	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-106.6	107.0
7.100	151.3	-123.8	109.0
7.200	151.3	-121.8	111.0
7.300	151.3	-119.8	112.9
7.400	151.3	-117.8	114.9
7.500	151.3	-115.8	116.9
7.600	151.3	-113.8	118.9
7.700	151.3	-111.8	120.9
7.800	151.3	-109.8	122.9
7.900	151.3	-107.9	124.9
8.000	151.3	-105.9	117.2
8.000	151.3	-105.9	104.4
8.100	151.3	-126.4	106.3
8.200	151.3	-124.4	108.3
8.300	151.3	-122.4	110.3
8.400	151.3	-120.5	112.3
8.500	151.3	-118.5	114.3
8.600	151.3	-116.4	116.3
8.700	151.3	-114.5	118.3
8.800	151.3	-112.5	120.3
8.900	151.3	-110.5	122.2
9.000	151.3	-108.5	117.0

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	62.97	4.40	0.00	175.9
1.100	35.62	5.32	0.00	212.8
1.200	22.69	6.60	0.00	263.9
1.300	14.62	8.44	0.00	337.4
1.400	10.59	10.97	0.00	423.5
1.500	8.63	14.37	0.00	345.3
1.600	7.07	19.90	0.00	282.9
1.700	5.92	30.20	0.00	236.9
1.800	5.05	54.06	0.00	202.0
1.900	4.35	149.04	0.00	174.1
2.000	3.85	262.51	0.00	153.9
2.000	3.85	4.07	0.00	153.9
2.100	43.65	4.70	0.00	188.0
2.200	27.61	5.62	0.00	224.9
2.300	19.13	6.96	0.00	278.5
2.400	14.10	8.51	0.00	340.3
2.500	10.88	10.51	0.00	420.2
2.600	8.69	13.13	0.00	347.8
2.700	6.99	17.06	0.00	279.7
2.800	5.72	23.31	0.00	229.0
2.900	4.82	34.20	0.00	192.8
3.000	4.17	36.83	0.00	166.7
3.000	4.17	4.19	0.00	166.7
3.100	42.81	4.86	0.00	194.3
3.200	27.78	5.78	0.00	231.0
3.300	19.37	7.04	0.00	281.5
3.400	14.28	8.62	0.00	344.7
3.500	10.97	11.07	0.00	438.8
3.600	8.59	14.36	0.00	343.5
3.700	7.01	19.43	0.00	280.5
3.800	5.73	27.72	0.00	229.3
3.900	4.82	42.32	0.00	192.6
4.000	4.16	48.95	0.00	166.2

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	4.16	4.16	0.00	166.2
4.100	42.83	4.82	0.00	193.0
4.200	27.85	5.74	0.00	229.7
4.300	19.43	7.02	0.00	280.9
4.400	14.32	8.60	0.00	343.9
4.500	11.02	11.01	0.00	440.2
4.600	8.60	14.31	0.00	344.1
4.700	7.03	19.42	0.00	281.1
4.800	5.75	27.81	0.00	229.8
4.900	4.83	42.76	0.00	193.1
5.000	4.16	46.74	0.00	166.6
5.000	4.16	4.16	0.00	166.6
5.100	42.76	4.83	0.00	193.1
5.200	27.81	5.75	0.00	229.8
5.300	19.42	7.03	0.00	281.1
5.400	14.31	8.60	0.00	344.1
5.500	11.01	11.01	0.00	440.4
5.600	8.60	14.32	0.00	343.9
5.700	7.02	19.43	0.00	280.9
5.800	5.74	27.85	0.00	229.7
5.900	4.82	42.83	0.00	193.0
6.000	4.16	46.96	0.00	166.5
6.000	4.16	4.16	0.00	166.2
6.100	42.32	4.82	0.00	192.6
6.200	27.72	5.73	0.00	229.3
6.300	19.43	7.01	0.00	280.5
6.400	14.36	8.59	0.00	343.5
6.500	11.08	10.96	0.00	438.6
6.600	8.62	14.28	0.00	344.7
6.700	7.04	19.37	0.00	281.5
6.800	5.78	27.78	0.00	231.0
6.900	4.86	42.81	0.00	194.3
7.000	4.19	47.03	0.00	167.8



## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	4.19	4.17	0.00	166.7
7.100	34.20	4.82	0.00	192.8
7.200	23.31	5.72	0.00	229.0
7.300	17.06	6.99	0.00	279.7
7.400	13.13	8.69	0.00	347.8
7.500	10.51	10.88	0.00	420.5
7.600	8.51	14.10	0.00	340.3
7.700	6.96	19.13	0.00	278.5
7.800	5.62	27.61	0.00	224.9
7.900	4.70	43.65	0.00	188.0
8.000	4.05	47.91	0.00	161.9
8.000	4.05	3.85	0.00	153.9
8.100	149.03	4.35	0.00	174.1
8.200	54.06	5.05	0.00	202.0
8.300	30.20	5.92	0.00	236.9
8.400	19.90	7.07	0.00	282.9
8.500	14.38	8.63	0.00	345.1
8.600	10.97	10.84	0.00	433.5
8.700	8.44	14.62	0.00	337.4
8.800	6.60	22.69	0.00	263.9
8.900	5.32	35.62	0.00	212.8
9.000	4.40	999.00	0.00	175.9



3.000	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
43.0								
3.000	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
43.0								
3.100	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
64.0								
3.200	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
80.2								
3.300	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
91.8								
3.400	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
98.6								
3.500	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
00.7								
3.600	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
97.9								
3.700	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
90.3								
3.800	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
78.1								
3.900	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
61.1								
4.000	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
39.3								



6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.000 39.3	279.4	279.4	-279.4	-279.4	319.5	319.5	-239.3	-2
6.100 61.1	279.4	279.4	-279.4	-279.4	297.7	297.7	-261.1	-2
6.200 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
6.300 90.3	279.4	279.4	-279.4	-279.4	268.5	268.5	-290.3	-2
6.400 97.9	279.4	279.4	-279.4	-279.4	260.9	260.9	-297.9	-2
6.500 00.7	279.4	279.4	-279.4	-279.4	258.1	258.1	-300.7	-3
6.600 98.6	279.4	279.4	-279.4	-279.4	260.2	260.2	-298.6	-2
6.700 91.8	279.4	279.4	-279.4	-279.4	267.0	267.0	-291.8	-2
6.800 80.2	279.4	279.4	-279.4	-279.4	278.6	278.6	-280.2	-2
6.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S01

Rating Type:

OPER.

Rating Live Load:

5C1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
7.000 43.0	279.4	279.4	-279.4	-279.4	315.8	315.8	-243.0	-2
7.100 63.0	279.4	279.4	-279.4	-279.4	295.8	295.8	-263.0	-2
7.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
7.300 88.9	279.4	279.4	-279.4	-279.4	269.9	269.9	-288.9	-2
7.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
7.500 95.8	279.4	279.4	-279.4	-279.4	263.0	263.0	-295.8	-2
7.600 92.0	279.4	279.4	-279.4	-279.4	266.8	266.8	-292.0	-2
7.700 83.5	279.4	279.4	-279.4	-279.4	275.3	275.3	-283.5	-2
7.800 70.3	279.4	279.4	-279.4	-279.4	288.5	288.5	-270.3	-2
7.900 52.3	279.4	279.4	-279.4	-279.4	306.5	306.5	-252.3	-2
8.000 29.6	279.4	279.4	-279.4	-279.4	329.2	329.2	-229.6	-2
8.000 29.6	279.4	279.4	-279.4	-279.4	329.2	329.2	-229.6	-2
8.100 56.0	279.4	279.4	-279.4	-279.4	302.8	302.8	-256.0	-2
8.200 77.6	279.4	279.4	-279.4	-279.4	281.2	281.2	-277.6	-2
8.300 94.5	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
8.400 06.6	279.4	279.4	-279.4	-279.4	252.2	252.2	-306.6	-3
8.500 14.0	279.4	279.4	-279.4	-279.4	244.8	244.8	-314.0	-3
8.600 16.6	279.4	279.4	-279.4	-279.4	242.2	242.2	-316.6	-3
8.700 14.4	279.4	279.4	-279.4	-279.4	244.4	244.4	-314.4	-3
8.800 07.5	279.4	279.4	-279.4	-279.4	251.3	251.3	-307.5	-3
8.900 95.8	279.4	279.4	-279.4	-279.4	263.0	263.0	-295.8	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.29	62.69	5.29	62.69	0.00	211.7
1.200	3.08	32.58	3.08	32.58	0.00	123.3
1.300	2.51	22.21	2.51	22.21	0.00	100.4
1.400	2.38	16.77	2.38	16.77	0.00	95.4
1.500	2.48	13.31	2.48	13.31	0.00	99.2
1.600	2.79	10.83	2.79	10.83	0.00	111.5
1.700	3.52	8.92	3.52	8.92	0.00	140.7
1.800	5.37	7.35	5.37	7.35	0.00	215.0
1.900	12.75	5.84	12.75	5.84	0.00	233.6
2.000	28.14	3.14	28.14	3.14	0.00	125.7
2.000	28.14	3.14	28.14	3.14	0.00	125.7
2.100	14.43	4.75	14.43	4.75	0.00	189.9
2.200	6.19	5.86	6.19	5.86	0.00	234.5
2.300	4.03	6.72	4.03	6.72	0.00	161.3
2.400	3.35	7.52	3.35	7.52	0.00	133.9
2.500	3.13	8.06	3.13	8.06	0.00	125.1
2.600	3.26	8.31	3.26	8.31	0.00	130.6
2.700	3.81	8.05	3.81	8.05	0.00	152.2
2.800	5.32	7.43	5.32	7.43	0.00	212.7
2.900	11.11	6.39	11.11	6.39	0.00	255.6
3.000	19.66	4.07	19.66	4.07	0.00	162.8
3.000	19.66	4.07	19.66	4.07	0.00	162.8
3.100	10.01	6.26	10.01	6.26	0.00	250.3
3.200	5.09	7.35	5.09	7.35	0.00	203.5
3.300	3.71	8.17	3.71	8.17	0.00	148.5
3.400	3.22	8.81	3.22	8.81	0.00	128.8
3.500	3.09	9.08	3.09	9.08	0.00	123.4
3.600	3.25	8.89	3.25	8.89	0.00	130.1
3.700	3.80	8.23	3.80	8.23	0.00	152.0
3.800	5.32	7.41	5.32	7.41	0.00	212.7
3.900	11.10	6.30	11.10	6.30	0.00	251.8
4.000	25.35	4.00	25.35	4.00	0.00	160.2



## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	25.35	4.00	25.35	4.00	0.00	160.2
4.100	11.02	6.28	11.02	6.28	0.00	251.2
4.200	5.31	7.39	5.31	7.39	0.00	212.5
4.300	3.81	8.22	3.81	8.22	0.00	152.3
4.400	3.27	8.86	3.27	8.86	0.00	130.6
4.500	3.12	9.11	3.12	9.11	0.00	125.0
4.600	3.26	8.90	3.26	8.90	0.00	130.5
4.700	3.81	8.24	3.81	8.24	0.00	152.2
4.800	5.31	7.42	5.31	7.42	0.00	212.5
4.900	11.06	6.31	11.06	6.31	0.00	252.4
5.000	25.13	4.02	25.13	4.02	0.00	161.0
5.000	25.13	4.02	25.13	4.02	0.00	161.0
5.100	11.06	6.31	11.06	6.31	0.00	252.4
5.200	5.31	7.42	5.31	7.42	0.00	212.5
5.300	3.81	8.24	3.81	8.24	0.00	152.2
5.400	3.26	8.87	3.26	8.87	0.00	130.5
5.500	3.12	9.11	3.12	9.11	0.00	125.0
5.600	3.27	8.89	3.27	8.89	0.00	130.6
5.700	3.81	8.22	3.81	8.22	0.00	152.3
5.800	5.31	7.39	5.31	7.39	0.00	212.5
5.900	11.02	6.28	11.02	6.28	0.00	251.2
6.000	26.42	4.01	26.42	4.01	0.00	160.2
6.000	26.42	4.01	26.42	4.01	0.00	160.2
6.100	11.10	6.30	11.10	6.30	0.00	251.8
6.200	5.32	7.41	5.32	7.41	0.00	212.7
6.300	3.80	8.23	3.80	8.23	0.00	152.0
6.400	3.25	8.89	3.25	8.89	0.00	130.1
6.500	3.09	9.08	3.09	9.08	0.00	123.4
6.600	3.22	8.85	3.22	8.85	0.00	128.8
6.700	3.71	8.17	3.71	8.17	0.00	148.5
6.800	5.09	7.35	5.09	7.35	0.00	203.5
6.900	10.01	6.26	10.01	6.26	0.00	250.3
7.000	19.66	4.07	19.66	4.07	0.00	162.9

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S01

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	19.66	4.07	19.66	4.07	0.00	162.9
7.100	11.11	6.39	11.11	6.39	0.00	255.6
7.200	5.32	7.43	5.32	7.43	0.00	212.7
7.300	3.81	8.05	3.81	8.05	0.00	152.2
7.400	3.26	8.31	3.26	8.31	0.00	130.6
7.500	3.13	8.06	3.13	8.06	0.00	125.1
7.600	3.35	7.52	3.35	7.52	0.00	133.9
7.700	4.03	6.72	4.03	6.72	0.00	161.3
7.800	6.19	5.86	6.19	5.86	0.00	234.5
7.900	14.43	4.75	14.43	4.75	0.00	189.9
8.000	28.14	3.14	28.14	3.14	0.00	125.7
8.000	28.14	3.14	28.14	3.14	0.00	125.7
8.100	12.75	5.84	12.75	5.84	0.00	233.6
8.200	5.37	7.35	5.37	7.35	0.00	215.0
8.300	3.52	8.92	3.52	8.92	0.00	140.7
8.400	2.79	10.83	2.79	10.83	0.00	111.5
8.500	2.48	13.31	2.48	13.31	0.00	99.2
8.600	2.38	16.77	2.38	16.77	0.00	95.4
8.700	2.51	22.21	2.51	22.21	0.00	100.4
8.800	3.08	32.58	3.08	32.58	0.00	123.3
8.900	5.29	62.69	5.29	62.69	0.00	211.7
9.000	999.00	999.00	999.00	999.00	0.00	999.0

BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction SS  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 8

Live Load Distribution Factor 1.272

Second Live Load Dist. Factor 1.272

Comments:

Member I. D.	S02					Symmetry:
Span Length:	Span 1	Span 2	Span 3	Span 4	Span 5	
	23.917	23.917	23.917	23.917	23.917	
	Span 6	Span 7	Span 8	Span 9	Span 10	
	23.917	23.917	23.917	0.000	0.000	

Range Length -- Non-Composite:							
Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	23.917	1	0		0.0	0.0
2	1	23.917	1	0		0.0	0.0
3	1	23.917	1	0		0.0	0.0
4	1	23.917	1	0		0.0	0.0
5	1	23.917	1	0		0.0	0.0
6	1	23.917	1	0		0.0	0.0
7	1	23.917	1	0		0.0	0.0
8	1	23.917	1	0		0.0	0.0

Superimposed Dead Load:						
Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	0.000	615.0	615.0	23.917	0.0
1	P	11.958	0.0	0.0	0.000	0.1
2	W	0.000	615.0	615.0	23.917	0.0
2	P	11.958	0.0	0.0	0.000	0.1
3	W	0.000	615.0	615.0	23.917	0.0
3	P	11.958	0.0	0.0	0.000	0.1
4	W	0.000	615.0	615.0	23.917	0.0
4	P	11.958	0.0	0.0	0.000	0.1
5	W	0.000	615.0	615.0	23.917	0.0
5	P	11.958	0.0	0.0	0.000	0.1
6	W	0.000	615.0	615.0	23.917	0.0
6	P	11.958	0.0	0.0	0.000	0.1
7	W	0.000	615.0	615.0	23.917	0.0
7	P	11.958	0.0	0.0	0.000	0.1
8	W	0.000	615.0	615.0	23.917	0.0
8	P	11.958	0.0	0.0	0.000	0.1

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.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D. S02						
Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
1.000	20.99	19.76	0.40	0.0	0.0	33.
1.100	20.99	19.76	0.40	0.0	0.0	33.
1.200	20.99	19.76	0.40	0.0	0.0	33.
1.300	20.99	19.76	0.40	0.0	0.0	33.
1.400	20.99	19.76	0.40	0.0	0.0	33.
1.500	20.99	19.76	0.40	0.0	0.0	33.
1.600	20.99	19.76	0.40	0.0	0.0	33.
1.700	20.99	19.76	0.40	0.0	0.0	33.
1.800	20.99	19.76	0.40	0.0	0.0	33.
1.900	20.99	19.76	0.40	0.0	0.0	33.
2.000	20.99	19.76	0.40	0.0	0.0	33.
2.000	20.99	19.76	0.40	0.0	0.0	33.
2.100	20.99	19.76	0.40	0.0	0.0	33.
2.200	20.99	19.76	0.40	0.0	0.0	33.
2.300	20.99	19.76	0.40	0.0	0.0	33.
2.400	20.99	19.76	0.40	0.0	0.0	33.
2.500	20.99	19.76	0.40	0.0	0.0	33.
2.600	20.99	19.76	0.40	0.0	0.0	33.
2.700	20.99	19.76	0.40	0.0	0.0	33.
2.800	20.99	19.76	0.40	0.0	0.0	33.
2.900	20.99	19.76	0.40	0.0	0.0	33.
3.000	20.99	19.76	0.40	0.0	0.0	33.
3.000	20.99	19.76	0.40	0.0	0.0	33.
3.100	20.99	19.76	0.40	0.0	0.0	33.
3.200	20.99	19.76	0.40	0.0	0.0	33.
3.300	20.99	19.76	0.40	0.0	0.0	33.
3.400	20.99	19.76	0.40	0.0	0.0	33.
3.500	20.99	19.76	0.40	0.0	0.0	33.
3.600	20.99	19.76	0.40	0.0	0.0	33.
3.700	20.99	19.76	0.40	0.0	0.0	33.
3.800	20.99	19.76	0.40	0.0	0.0	33.
3.900	20.99	19.76	0.40	0.0	0.0	33.
4.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D. S02						
Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
4.000	20.99	19.76	0.40	0.0	0.0	33.
4.100	20.99	19.76	0.40	0.0	0.0	33.
4.200	20.99	19.76	0.40	0.0	0.0	33.
4.300	20.99	19.76	0.40	0.0	0.0	33.
4.400	20.99	19.76	0.40	0.0	0.0	33.
4.500	20.99	19.76	0.40	0.0	0.0	33.
4.600	20.99	19.76	0.40	0.0	0.0	33.
4.700	20.99	19.76	0.40	0.0	0.0	33.
4.800	20.99	19.76	0.40	0.0	0.0	33.
4.900	20.99	19.76	0.40	0.0	0.0	33.
5.000	20.99	19.76	0.40	0.0	0.0	33.
5.000	20.99	19.76	0.40	0.0	0.0	33.
5.100	20.99	19.76	0.40	0.0	0.0	33.
5.200	20.99	19.76	0.40	0.0	0.0	33.
5.300	20.99	19.76	0.40	0.0	0.0	33.
5.400	20.99	19.76	0.40	0.0	0.0	33.
5.500	20.99	19.76	0.40	0.0	0.0	33.
5.600	20.99	19.76	0.40	0.0	0.0	33.
5.700	20.99	19.76	0.40	0.0	0.0	33.
5.800	20.99	19.76	0.40	0.0	0.0	33.
5.900	20.99	19.76	0.40	0.0	0.0	33.
6.000	20.99	19.76	0.40	0.0	0.0	33.
6.000	20.99	19.76	0.40	0.0	0.0	33.
6.100	20.99	19.76	0.40	0.0	0.0	33.
6.200	20.99	19.76	0.40	0.0	0.0	33.
6.300	20.99	19.76	0.40	0.0	0.0	33.
6.400	20.99	19.76	0.40	0.0	0.0	33.
6.500	20.99	19.76	0.40	0.0	0.0	33.
6.600	20.99	19.76	0.40	0.0	0.0	33.
6.700	20.99	19.76	0.40	0.0	0.0	33.
6.800	20.99	19.76	0.40	0.0	0.0	33.
6.900	20.99	19.76	0.40	0.0	0.0	33.
7.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

S02

Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
7.000	20.99	19.76	0.40	0.0	0.0	33.
7.100	20.99	19.76	0.40	0.0	0.0	33.
7.200	20.99	19.76	0.40	0.0	0.0	33.
7.300	20.99	19.76	0.40	0.0	0.0	33.
7.400	20.99	19.76	0.40	0.0	0.0	33.
7.500	20.99	19.76	0.40	0.0	0.0	33.
7.600	20.99	19.76	0.40	0.0	0.0	33.
7.700	20.99	19.76	0.40	0.0	0.0	33.
7.800	20.99	19.76	0.40	0.0	0.0	33.
7.900	20.99	19.76	0.40	0.0	0.0	33.
8.000	20.99	19.76	0.40	0.0	0.0	33.
8.000	20.99	19.76	0.40	0.0	0.0	33.
8.100	20.99	19.76	0.40	0.0	0.0	33.
8.200	20.99	19.76	0.40	0.0	0.0	33.
8.300	20.99	19.76	0.40	0.0	0.0	33.
8.400	20.99	19.76	0.40	0.0	0.0	33.
8.500	20.99	19.76	0.40	0.0	0.0	33.
8.600	20.99	19.76	0.40	0.0	0.0	33.
8.700	20.99	19.76	0.40	0.0	0.0	33.
8.800	20.99	19.76	0.40	0.0	0.0	33.
8.900	20.99	19.76	0.40	0.0	0.0	33.
9.000	20.99	19.76	0.40	0.0	0.0	33.

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S02

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
1.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0



SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S02

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
4.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S02

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend Top	Bott.	-Bend Top	Bott.
7.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
9.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	12.3	69.06 L	43.62	53.12	33.55
1.200	2.1	21.0	111.79 L	74.30	85.99	57.16
1.300	2.6	26.2	131.19 L	94.42	100.92	72.63
1.400	2.8	27.9	131.09 L	102.53	100.84	78.87
1.500	2.6	26.1	126.40 L	101.45	97.23	78.03
1.600	2.0	20.5	115.03 L	90.18	88.49	69.37
1.700	1.1	11.3	98.91 L	72.00	76.08	55.39
1.800	-0.2	-1.4	61.69 L	47.01	47.46	36.16
1.900	-1.8	-17.6	-59.93 R	-60.44	-46.10	-46.49
2.000	-3.8	-37.3	-112.30 L	-100.93	-86.38	-77.64
2.000	-3.8	-37.3	-112.30 L	-100.93	-86.38	-77.64
2.100	-2.1	-20.3	-75.31 R	-62.54	-57.93	-48.11
2.200	-0.7	-6.8	66.16 R	45.53	50.89	35.02
2.300	0.3	3.1	93.24 R	67.74	71.73	52.11
2.400	0.9	9.5	103.09 R	80.84	79.30	62.18
2.500	1.2	12.5	98.70 L	86.01	75.92	66.16
2.600	1.1	11.5	101.20 L	81.04	77.84	62.34
2.700	0.7	7.1	90.72 L	68.31	69.78	52.54
2.800	-0.1	-0.8	62.79 L	47.65	48.30	36.66
2.900	-1.3	-12.3	-60.76 L	-56.30	-46.74	-43.31
3.000	-2.8	-27.3	-106.16 L	-94.15	-81.66	-72.42
3.000	-2.8	-27.3	-106.16 L	-94.15	-81.66	-72.42
3.100	-1.2	-11.6	-61.87 R	-56.08	-47.59	-43.14
3.200	0.0	0.6	63.06 R	47.85	48.51	36.81
3.300	0.9	9.3	90.77 R	69.19	69.83	53.22
3.400	1.4	14.5	101.38 R	81.95	77.98	63.04
3.500	1.6	16.1	97.81 L	86.88	75.24	66.83
3.600	1.4	13.9	101.24 L	81.67	77.88	62.82
3.700	0.8	8.2	90.59 L	68.64	69.69	52.80
3.800	-0.1	-1.0	62.82 L	47.60	48.32	36.62
3.900	-1.4	-13.8	-60.83 L	-56.80	-46.79	-43.69
4.000	-3.0	-30.0	-105.72 L	-95.14	-81.33	-73.18

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
4.000	-3.0	-30.0	-105.72	L	-81.33	-73.18
4.100	-1.4	-13.9	-60.91	R	-46.85	-43.78
4.200	-0.2	-1.4	62.84	R	48.34	36.10
4.300	0.7	7.7	90.60	R	69.69	52.62
4.400	1.3	13.2	101.25	R	77.89	62.56
4.500	1.5	15.2	97.75	L	75.19	66.50
4.600	1.3	13.4	101.24	L	77.88	62.62
4.700	0.8	8.0	90.59	L	69.68	52.73
4.800	-0.1	-0.8	62.82	L	48.33	36.68
4.900	-1.3	-13.2	-60.84	L	-46.80	-43.51
5.000	-2.9	-29.1	-105.69	R	-81.30	-72.88
5.000	-2.9	-29.1	-105.69	R	-81.30	-72.88
5.100	-1.3	-13.2	-60.84	R	-46.80	-43.53
5.200	-0.1	-0.8	62.82	R	48.33	36.28
5.300	0.8	8.0	90.59	R	69.68	52.73
5.400	1.3	13.4	101.24	R	77.88	62.62
5.500	1.5	15.2	97.75	R	75.19	66.50
5.600	1.3	13.2	101.25	L	77.89	62.56
5.700	0.7	7.7	90.60	L	69.69	52.62
5.800	-0.2	-1.4	62.84	L	48.34	36.50
5.900	-1.4	-13.9	-60.91	L	-46.85	-43.76
6.000	-3.0	-30.0	-105.71	L	-81.32	-73.18
6.000	-3.0	-30.0	-105.71	L	-81.32	-73.18
6.100	-1.4	-13.8	-60.83	R	-46.79	-43.72
6.200	-0.1	-1.0	62.82	R	48.32	36.21
6.300	0.8	8.2	90.59	R	69.69	52.80
6.400	1.4	13.9	101.24	R	77.88	62.82
6.500	1.6	16.1	97.81	R	75.24	66.83
6.600	1.4	14.5	101.37	L	77.98	63.04
6.700	0.9	9.3	90.77	L	69.83	53.22
6.800	0.0	0.6	63.06	L	48.37	37.21
6.900	-1.2	-11.6	-61.87	L	-47.59	-43.12
7.000	-2.8	-27.3	-106.03	L	-81.56	-72.42

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane	
7.000	-2.8	-27.3	-106.03	L	-94.15	-81.56	-72.42
7.100	-1.3	-12.3	-60.76	R	-56.32	-46.74	-43.33
7.200	-0.1	-0.8	62.79	R	47.13	48.30	36.25
7.300	0.7	7.1	90.72	R	68.31	69.78	52.55
7.400	1.1	11.5	101.20	R	81.04	77.84	62.34
7.500	1.2	12.5	98.70	R	86.01	75.92	66.16
7.600	0.9	9.5	103.09	L	80.84	79.30	62.18
7.700	0.3	3.1	93.24	L	67.74	71.73	52.11
7.800	-0.7	-6.8	66.16	L	45.53	50.89	35.02
7.900	-2.1	-20.3	-75.31	L	-62.52	-57.93	-48.09
8.000	-3.8	-37.3	-112.26	R	-100.93	-86.35	-77.64
8.000	-3.8	-37.3	-112.26	R	-100.93	-86.35	-77.64
8.100	-1.8	-17.6	-59.93	L	-60.46	-46.10	-46.51
8.200	-0.2	-1.4	61.69	R	46.48	47.46	35.76
8.300	1.1	11.3	98.91	R	72.00	76.08	55.39
8.400	2.0	20.5	115.03	R	90.18	88.49	69.37
8.500	2.6	26.1	126.40	R	101.45	97.23	78.03
8.600	2.8	27.9	131.09	R	102.53	100.84	78.87
8.700	2.6	26.2	131.19	R	94.42	100.92	72.63
8.800	2.1	21.0	111.79	R	74.30	85.99	57.16
8.900	1.2	12.3	69.06	R	43.62	53.12	33.55
9.000	0.0	0.0	0.00	R	0.00	0.00	0.00



4	3.000	180.4C	161.2	-161.2	-180.4C	198.4	179.2	-143.2	-162.
4	3.000	180.4C	161.2	-161.2	-180.4C	198.4	179.2	-143.2	-162.
7	3.100	180.4C	161.2	-161.2	-180.4C	188.0	168.8	-153.5	-172.
8	3.200	180.4C	161.2	-161.2	-180.4C	180.0	160.8	-161.6	-180.
5	3.300	180.4C	161.2	-161.2	-180.4C	174.3	155.1	-167.3	-186.
9	3.400	180.4C	161.2	-161.2	-180.4C	170.9	151.7	-170.7	-189.
0	3.500	180.4C	161.2	-161.2	-180.4C	169.8	150.6	-171.8	-191.
5	3.600	180.4C	161.2	-161.2	-180.4C	171.2	152.0	-170.3	-189.
8	3.700	180.4C	161.2	-161.2	-180.4C	175.0	155.8	-166.6	-185.
7	3.800	180.4C	161.2	-161.2	-180.4C	181.1	161.9	-160.5	-179.
3	3.900	180.4C	161.2	-161.2	-180.4C	189.5	170.3	-152.1	-171.
6	4.000	180.4C	161.2	-161.2	-180.4C	200.2	181.0	-141.4	-160.





6	6.000	180.4C	161.2	-161.2	-180.4C	200.2	181.0	-141.4	-160.
6	6.000	180.4C	161.2	-161.2	-180.4C	200.2	181.0	-141.4	-160.
3	6.100	180.4C	161.2	-161.2	-180.4C	189.5	170.3	-152.1	-171.
7	6.200	180.4C	161.2	-161.2	-180.4C	181.1	161.9	-160.5	-179.
8	6.300	180.4C	161.2	-161.2	-180.4C	175.0	155.8	-166.6	-185.
5	6.400	180.4C	161.2	-161.2	-180.4C	171.2	152.0	-170.3	-189.
0	6.500	180.4C	161.2	-161.2	-180.4C	169.8	150.6	-171.8	-191.
9	6.600	180.4C	161.2	-161.2	-180.4C	170.9	151.7	-170.7	-189.
5	6.700	180.4C	161.2	-161.2	-180.4C	174.3	155.1	-167.3	-186.
8	6.800	180.4C	161.2	-161.2	-180.4C	180.0	160.8	-161.6	-180.
7	6.900	180.4C	161.2	-161.2	-180.4C	188.0	168.8	-153.5	-172.
4	7.000	180.4C	161.2	-161.2	-180.4C	198.4	179.2	-143.2	-162.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

INV.

Rating Live Load:

HS20

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
7.000	180.4C	161.2	-161.2	-180.4C	198.4	179.2	-143.2	-162.
7.100	180.4C	161.2	-161.2	-180.4C	188.5	169.3	-153.1	-172.
7.200	180.4C	161.2	-161.2	-180.4C	181.0	161.8	-160.6	-179.
7.300	180.4C	161.2	-161.2	-180.4C	175.7	156.5	-165.9	-185.
7.400	180.4C	161.2	-161.2	-180.4C	172.8	153.6	-168.8	-188.
7.500	180.4C	161.2	-161.2	-180.4C	172.2	153.0	-169.4	-188.
7.600	180.4C	161.2	-161.2	-180.4C	174.1	154.9	-167.5	-186.
7.700	180.4C	161.2	-161.2	-180.4C	178.4	159.2	-163.2	-182.
7.800	180.4C	161.2	-161.2	-180.4C	184.9	165.7	-156.7	-175.
7.900	180.4C	161.2	-161.2	-180.4C	193.8	174.6	-147.8	-167.
8.000	180.4C	161.2	-161.2	-180.4C	205.0	185.8	-136.6	-155.
8.000	180.4C	161.2	-161.2	-180.4C	205.0	185.8	-136.6	-155.
8.100	180.4C	161.2	-161.2	-180.4C	192.0	172.8	-149.6	-168.
8.200	180.4C	161.2	-161.2	-180.4C	181.3	162.1	-160.3	-179.
8.300	180.4C	161.2	-161.2	-180.4C	172.9	153.8	-168.6	-187.
8.400	180.4C	161.2	-161.2	-180.4C	166.9	147.7	-174.7	-193.
8.500	180.4C	161.2	-161.2	-180.4C	163.2	144.0	-178.4	-197.
8.600	180.4C	161.2	-161.2	-180.4C	162.0	142.8	-179.6	-198.
8.700	180.4C	161.2	-161.2	-180.4C	163.1	143.9	-178.5	-197.
8.800	180.4C	161.2	-161.2	-180.4C	166.5	147.3	-175.0	-194.
8.900	180.4C	161.2	-161.2	-180.4C	172.3	153.1	-169.3	-188.

9.000 180.4C 161.2 -161.2 -180.4C 180.4 161.2 -161.2 -180.  
4

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	HS 999.00 999.0
1.100	2.49	29.27	2.22	32.59	HS 44.34 79.8
1.200	1.49	15.14	1.32	16.80	HS 26.36 47.4
1.300	1.24	10.29	1.10	11.40	HS 21.94 39.5
1.400	1.24	7.76	1.09	8.60	HS 21.78 39.2
1.500	1.29	6.17	1.14	6.83	HS 22.78 41.0
1.600	1.45	5.03	1.28	5.59	HS 25.68 46.2
1.700	1.75	4.17	1.55	4.64	HS 31.09 56.0
1.800	2.94	3.46	2.63	3.88	HS 52.56 94.6
1.900	8.38	2.47	7.54	2.79	HS 49.50 89.1
2.000	13.23	1.22	11.99	1.39	HS 24.32 43.8
2.000	13.23	1.22	11.99	1.39	HS 24.32 43.8
2.100	8.14	1.96	7.34	2.22	HS 39.24 70.6
2.200	2.80	2.52	2.51	2.83	HS 50.10 90.2
2.300	1.91	3.16	1.71	3.53	HS 34.14 61.4
2.400	1.69	4.07	1.50	4.54	HS 30.06 54.1
2.500	1.75	5.55	1.55	6.18	HS 31.00 55.8
2.600	1.71	5.45	1.52	6.07	HS 30.36 54.6
2.700	1.94	4.28	1.73	4.78	HS 34.51 62.1
2.800	2.88	3.46	2.58	3.87	HS 51.52 92.7
2.900	7.02	2.52	6.30	2.84	HS 50.38 90.7
3.000	8.88	1.35	8.02	1.53	HS 26.97 48.5
3.000	8.88	1.35	8.02	1.53	HS 26.97 48.5
3.100	6.78	2.48	6.09	2.79	HS 49.63 89.3
3.200	2.85	3.44	2.55	3.85	HS 51.00 91.8
3.300	1.92	4.30	1.71	4.79	HS 34.17 61.5
3.400	1.68	5.51	1.50	6.13	HS 29.92 53.9
3.500	1.74	7.31	1.54	8.12	HS 30.79 55.4
3.600	1.69	5.55	1.50	6.17	HS 30.03 54.1
3.700	1.93	4.32	1.72	4.81	HS 34.39 61.9
3.800	2.88	3.45	2.58	3.87	HS 51.54 92.8
3.900	7.19	2.50	6.46	2.82	HS 50.01 90.0
4.000	11.65	1.34	10.54	1.52	HS 26.74 48.1

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	+bend	-bend		
4.000	11.65	1.34	10.54	1.52	HS 26.74	48.1
4.100	7.09	2.49	6.38	2.81	HS 49.90	89.8
4.200	2.88	3.44	2.58	3.86	HS 51.60	92.9
4.300	1.93	4.30	1.72	4.80	HS 34.47	62.1
4.400	1.70	5.53	1.51	6.15	HS 30.13	54.2
4.500	1.74	7.21	1.55	8.02	HS 30.94	55.7
4.600	1.70	5.54	1.50	6.16	HS 30.10	54.2
4.700	1.93	4.31	1.72	4.81	HS 34.42	62.0
4.800	2.88	3.45	2.58	3.87	HS 51.50	92.7
4.900	7.11	2.51	6.39	2.82	HS 50.12	90.2
5.000	11.43	1.34	10.33	1.52	HS 26.86	48.4
5.000	11.43	1.34	10.33	1.52	HS 26.86	48.4
5.100	6.99	2.51	6.28	2.82	HS 50.12	90.2
5.200	2.88	3.45	2.58	3.87	HS 51.50	92.7
5.300	1.93	4.31	1.72	4.81	HS 34.42	62.0
5.400	1.70	5.54	1.50	6.16	HS 30.10	54.2
5.500	1.74	7.21	1.55	8.02	HS 30.94	55.7
5.600	1.70	5.53	1.51	6.15	HS 30.13	54.2
5.700	1.93	4.30	1.72	4.80	HS 34.47	62.1
5.800	2.88	3.44	2.58	3.86	HS 51.60	92.9
5.900	7.21	2.49	6.48	2.81	HS 49.90	89.8
6.000	11.65	1.34	10.54	1.52	HS 26.74	48.1
6.000	11.65	1.34	10.54	1.52	HS 26.74	48.1
6.100	7.07	2.50	6.36	2.82	HS 50.01	90.0
6.200	2.88	3.45	2.58	3.87	HS 51.54	92.8
6.300	1.93	4.32	1.72	4.81	HS 34.39	61.9
6.400	1.69	5.55	1.50	6.17	HS 30.03	54.1
6.500	1.74	7.31	1.54	8.12	HS 30.79	55.4
6.600	1.68	5.51	1.50	6.13	HS 29.92	53.9
6.700	1.92	4.30	1.71	4.79	HS 34.17	61.5
6.800	2.85	3.44	2.55	3.85	HS 51.00	91.8
6.900	6.89	2.48	6.19	2.79	HS 49.63	89.3
7.000	8.88	1.35	8.02	1.53	HS 27.00	48.6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	8.88	1.35	8.02	1.53	HS 27.00	48.6
7.100	6.91	2.52	6.20	2.84	HS 50.38	90.7
7.200	2.88	3.46	2.58	3.87	HS 51.52	92.7
7.300	1.94	4.28	1.73	4.78	HS 34.51	62.1
7.400	1.71	5.45	1.52	6.07	HS 30.36	54.6
7.500	1.75	5.55	1.55	6.18	HS 31.00	55.8
7.600	1.69	4.07	1.50	4.54	HS 30.06	54.1
7.700	1.91	3.16	1.71	3.53	HS 34.14	61.4
7.800	2.80	2.52	2.51	2.83	HS 50.10	90.2
7.900	8.30	1.96	7.47	2.22	HS 39.24	70.6
8.000	13.23	1.22	11.99	1.39	HS 24.33	43.8
8.000	13.23	1.22	11.99	1.39	HS 24.33	43.8
8.100	8.22	2.47	7.40	2.79	HS 49.48	89.1
8.200	2.94	3.46	2.63	3.88	HS 52.56	94.6
8.300	1.75	4.17	1.55	4.64	HS 31.09	56.0
8.400	1.45	5.03	1.28	5.59	HS 25.68	46.2
8.500	1.29	6.17	1.14	6.83	HS 22.78	41.0
8.600	1.24	7.76	1.09	8.60	HS 21.78	39.2
8.700	1.24	10.29	1.10	11.40	HS 21.94	39.5
8.800	1.49	15.14	1.32	16.80	HS 26.36	47.4
8.900	2.49	29.27	2.22	32.59	HS 44.34	79.8
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	5.9	34.71	27.16	26.70	20.89
1.100	0.4	4.4	28.88	23.25	22.21	17.88
1.200	0.3	2.9	23.37	19.54	17.98	15.03
1.300	0.1	1.5	18.28	16.05	14.06	12.35
1.400	0.0	-0.1	13.70	12.82	10.54	9.86
1.500	-0.2	-1.5	-17.10	-15.53	-13.16	-11.95
1.600	-0.3	-3.1	-20.41	-18.56	-15.70	-14.27
1.700	-0.5	-4.6	-25.37	-21.50	-19.52	-16.54
1.800	-0.6	-6.0	-30.85	-24.31	-23.73	-18.70
1.900	-0.8	-7.5	-35.84	-26.94	-27.57	-20.72
2.000	-0.9	-9.0	-40.27	-29.34	-30.98	-22.57
2.000	0.8	-9.0	37.28	29.08	28.68	22.37
2.100	0.6	6.4	32.69	26.19	25.14	20.15
2.200	0.5	4.9	27.47	23.07	21.13	17.75
2.300	0.3	3.4	22.82	19.82	17.55	15.24
2.400	0.2	2.0	19.05	16.54	14.66	12.72
2.500	0.0	0.5	-15.05	13.32	-11.58	10.25
2.600	-0.1	-1.1	-18.94	-16.49	-14.57	-12.69
2.700	-0.3	-2.6	-22.69	-19.75	-17.45	-15.20
2.800	-0.4	-4.1	-27.81	-22.96	-21.39	-17.66
2.900	-0.6	-5.5	-32.97	-26.00	-25.36	-20.00
3.000	-0.7	-7.0	-37.80	-28.78	-29.08	-22.14
3.000	0.7	7.3	37.61	28.93	28.93	22.25
3.100	0.6	5.8	32.74	26.12	25.18	20.09
3.200	0.4	4.4	27.56	23.04	21.20	17.72
3.300	0.3	2.9	22.61	19.80	17.39	15.23
3.400	0.1	1.4	18.84	16.51	14.49	12.70
3.500	0.0	-0.1	14.90	-13.40	11.46	-10.31
3.600	-0.2	-1.6	-18.83	-16.63	-14.48	-12.80
3.700	-0.3	-3.1	-22.60	-19.92	-17.38	-15.32
3.800	-0.5	-4.6	-27.59	-23.15	-21.22	-17.81
3.900	-0.6	-6.1	-32.76	-26.23	-25.20	-20.17
4.000	-0.8	-7.5	-37.62	-29.03	-28.94	-22.33

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
4.000	0.7	-7.5	37.61	29.00	28.93	22.31
4.100	0.6	6.0	32.74	26.19	25.19	20.15
4.200	0.5	4.5	27.57	23.12	21.21	17.78
4.300	0.3	3.0	22.59	19.88	17.38	15.29
4.400	0.2	1.6	18.82	16.59	14.48	12.76
4.500	0.0	0.1	14.89	13.36	11.46	10.28
4.600	-0.1	-1.5	-18.82	-16.56	-14.48	-12.74
4.700	-0.3	-3.0	-22.59	-19.85	-17.38	-15.27
4.800	-0.4	-4.4	-27.57	-23.09	-21.21	-17.76
4.900	-0.6	-5.9	-32.74	-26.16	-25.19	-20.12
5.000	-0.7	-7.4	-37.61	-28.97	-28.93	-22.28
5.000	0.7	7.4	37.61	28.97	28.93	22.28
5.100	0.6	5.9	32.74	26.16	25.19	20.12
5.200	0.4	4.4	27.57	23.09	21.21	17.76
5.300	0.3	3.0	22.59	19.85	17.38	15.27
5.400	0.1	1.5	18.82	16.56	14.48	12.74
5.500	0.0	0.1	14.89	-13.36	11.46	-10.28
5.600	-0.2	-1.6	-18.82	-16.59	-14.48	-12.76
5.700	-0.3	-3.0	-22.59	-19.88	-17.38	-15.29
5.800	-0.5	-4.5	-27.57	-23.12	-21.21	-17.78
5.900	-0.6	-6.0	-32.74	-26.19	-25.19	-20.15
6.000	-0.7	-7.5	-37.61	-29.00	-28.93	-22.31
6.000	0.8	7.5	37.62	29.03	28.94	22.33
6.100	0.6	6.1	32.76	26.23	25.20	20.17
6.200	0.5	4.6	27.59	23.15	21.22	17.81
6.300	0.3	3.1	22.60	19.92	17.38	15.32
6.400	0.2	1.6	18.83	16.63	14.48	12.80
6.500	0.0	0.2	14.90	13.40	11.46	10.31
6.600	-0.1	-1.4	-18.84	-16.51	-14.49	-12.70
6.700	-0.3	-2.9	-22.61	-19.80	-17.39	-15.23
6.800	-0.4	-4.4	-27.56	-23.04	-21.20	-17.72
6.900	-0.6	-5.8	-32.74	-26.12	-25.18	-20.09
7.000	-0.7	-7.3	-37.61	-28.93	-28.93	-22.25



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
7.000	0.7	-7.3	37.80	28.78	29.08	22.14
7.100	0.6	5.5	32.97	26.00	25.36	20.00
7.200	0.4	4.1	27.81	22.96	21.39	17.66
7.300	0.3	2.6	22.69	19.75	17.45	15.20
7.400	0.1	1.1	18.94	16.49	14.57	12.69
7.500	0.0	-0.4	15.05	-13.32	11.58	-10.25
7.600	-0.2	-2.0	-19.05	-16.54	-14.66	-12.72
7.700	-0.3	-3.4	-22.82	-19.82	-17.55	-15.24
7.800	-0.5	-4.9	-27.47	-23.07	-21.13	-17.75
7.900	-0.6	-6.4	-32.69	-26.19	-25.14	-20.15
8.000	-0.8	-7.8	-37.63	-29.08	-28.95	-22.37
8.000	0.9	9.0	40.27	29.34	30.98	22.57
8.100	0.8	7.5	35.84	26.94	27.57	20.72
8.200	0.6	6.0	30.85	24.31	23.73	18.70
8.300	0.5	4.6	25.37	21.50	19.52	16.54
8.400	0.3	3.1	20.41	18.56	15.70	14.27
8.500	0.2	1.6	17.10	15.53	13.16	11.95
8.600	0.0	0.1	-13.70	-12.82	-10.54	-9.86
8.700	-0.1	-1.5	-18.28	-16.05	-14.06	-12.35
8.800	-0.3	-2.9	-23.37	-19.54	-17.98	-15.03
8.900	-0.4	-4.4	-28.88	-23.25	-22.21	-17.88
9.000	-0.6	-5.9	-34.71	-27.16	-26.70	-20.89

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	90.8	-73.7	66.0
1.100	90.8	-72.7	66.9
1.200	90.8	-71.7	67.9
1.300	90.8	-70.8	68.9
1.400	90.8	-69.8	69.8
1.500	90.8	-68.8	70.8
1.600	90.8	-67.8	71.9
1.700	90.8	-66.8	72.8
1.800	90.8	-65.8	73.8
1.900	90.8	-64.9	74.8
2.000	90.8	-63.9	75.8
2.000	90.8	-63.9	64.6
2.100	90.8	-74.0	65.6
2.200	90.8	-73.1	66.6
2.300	90.8	-72.1	67.6
2.400	90.8	-71.1	68.5
2.500	90.8	-70.1	69.5
2.600	90.8	-69.1	70.6
2.700	90.8	-68.1	71.5
2.800	90.8	-67.1	72.5
2.900	90.8	-66.2	73.5
3.000	90.8	-65.2	70.2
3.000	90.8	-65.2	65.0
3.100	90.8	-73.7	66.0
3.200	90.8	-72.7	66.9
3.300	90.8	-71.7	67.9
3.400	90.8	-70.8	68.9
3.500	90.8	-69.8	69.9
3.600	90.8	-68.7	70.9
3.700	90.8	-67.8	71.9
3.800	90.8	-66.8	72.9
3.900	90.8	-65.8	73.8
4.000	90.8	-64.8	70.3

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	90.8	-64.8	64.9
4.100	90.8	-73.8	65.9
4.200	90.8	-72.8	66.8
4.300	90.8	-71.8	67.8
4.400	90.8	-70.9	68.8
4.500	90.8	-69.9	69.8
4.600	90.8	-68.8	70.8
4.700	90.8	-67.9	71.8
4.800	90.8	-66.9	72.8
4.900	90.8	-65.9	73.7
5.000	90.8	-64.9	70.3
5.000	90.8	-64.9	64.9
5.100	90.8	-73.7	65.9
5.200	90.8	-72.8	66.9
5.300	90.8	-71.8	67.9
5.400	90.8	-70.8	68.8
5.500	90.8	-69.8	69.8
5.600	90.8	-68.8	70.9
5.700	90.8	-67.8	71.8
5.800	90.8	-66.8	72.8
5.900	90.8	-65.9	73.8
6.000	90.8	-64.9	70.3
6.000	90.8	-64.9	64.8
6.100	90.8	-73.8	65.8
6.200	90.8	-72.9	66.8
6.300	90.8	-71.9	67.8
6.400	90.8	-70.9	68.7
6.500	90.8	-69.9	69.7
6.600	90.8	-68.9	70.8
6.700	90.8	-67.9	71.7
6.800	90.8	-66.9	72.7
6.900	90.8	-66.0	73.7
7.000	90.8	-65.0	70.3

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	90.8	-65.0	65.2
7.100	90.8	-73.5	66.2
7.200	90.8	-72.5	67.1
7.300	90.8	-71.5	68.1
7.400	90.8	-70.6	69.1
7.500	90.8	-69.6	70.1
7.600	90.8	-68.5	71.1
7.700	90.8	-67.6	72.1
7.800	90.8	-66.6	73.1
7.900	90.8	-65.6	74.0
8.000	90.8	-64.6	70.3
8.000	90.8	-64.6	63.9
8.100	90.8	-74.8	64.9
8.200	90.8	-73.8	65.8
8.300	90.8	-72.8	66.8
8.400	90.8	-71.9	67.8
8.500	90.8	-70.9	68.8
8.600	90.8	-69.8	69.8
8.700	90.8	-68.9	70.8
8.800	90.8	-67.9	71.7
8.900	90.8	-66.9	72.7
9.000	90.8	-66.0	70.2

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

INV.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	31.20	1.90	HS 38.00	68.4
1.100	20.97	2.32	HS 46.36	83.4
1.200	10.78	2.90	HS 58.11	104.6
1.300	7.17	3.77	HS 75.33	135.6
1.400	5.29	5.10	HS 101.94	183.5
1.500	4.03	6.70	HS 80.50	144.9
1.600	3.32	9.75	HS 66.41	119.5
1.700	2.63	14.80	HS 52.66	94.8
1.800	2.13	24.92	HS 42.68	76.8
1.900	1.81	54.28	HS 36.20	65.2
2.000	1.59	119.79	HS 31.73	57.1
2.000	1.59	1.73	HS 31.73	57.1
2.100	23.04	2.01	HS 40.15	72.3
2.200	15.30	2.42	HS 48.49	87.3
2.300	9.83	2.96	HS 59.22	106.6
2.400	6.69	3.60	HS 71.94	129.5
2.500	4.66	4.63	HS 92.64	166.8
2.600	3.65	6.76	HS 72.97	131.3
2.700	3.00	9.59	HS 60.04	108.1
2.800	2.41	14.55	HS 48.30	86.9
2.900	2.01	16.62	HS 40.15	72.3
3.000	1.73	15.89	HS 34.50	62.1
3.000	1.73	1.73	HS 34.50	62.1
3.100	20.71	2.02	HS 40.30	72.5
3.200	14.69	2.43	HS 48.58	87.4
3.300	9.60	3.00	HS 60.08	108.1
3.400	6.78	3.66	HS 73.13	131.6
3.500	4.68	4.69	HS 93.65	168.6
3.600	3.65	6.80	HS 73.01	131.4
3.700	3.00	9.77	HS 59.97	108.0
3.800	2.42	15.05	HS 48.42	87.2
3.900	2.01	21.08	HS 40.19	72.3
4.000	1.72	20.33	HS 34.47	62.1

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

INV.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	1.72	1.73	HS 34.47	62.1
4.100	21.07	2.01	HS 40.24	72.4
4.200	14.92	2.42	HS 48.49	87.3
4.300	9.71	3.00	HS 60.03	108.1
4.400	6.80	3.65	HS 73.09	131.6
4.500	4.69	4.68	HS 93.68	168.6
4.600	3.66	6.79	HS 73.14	131.7
4.700	3.00	9.66	HS 60.08	108.1
4.800	2.43	14.81	HS 48.52	87.3
4.900	2.01	20.85	HS 40.26	72.5
5.000	1.73	20.14	HS 34.54	62.2
5.000	1.73	1.73	HS 34.54	62.2
5.100	20.85	2.01	HS 40.26	72.5
5.200	14.81	2.43	HS 48.52	87.3
5.300	9.66	3.00	HS 60.08	108.1
5.400	6.79	3.66	HS 73.14	131.7
5.500	4.69	4.69	HS 93.75	168.7
5.600	3.65	6.80	HS 73.09	131.6
5.700	3.00	9.71	HS 60.03	108.1
5.800	2.42	14.92	HS 48.49	87.3
5.900	2.01	21.07	HS 40.24	72.4
6.000	1.73	20.34	HS 34.51	62.1
6.000	1.73	1.72	HS 34.47	62.1
6.100	21.08	2.01	HS 40.19	72.3
6.200	15.05	2.42	HS 48.42	87.2
6.300	9.77	3.00	HS 59.97	108.0
6.400	6.80	3.65	HS 73.01	131.4
6.500	4.69	4.68	HS 93.55	168.4
6.600	3.66	6.78	HS 73.13	131.6
6.700	3.00	9.60	HS 60.08	108.1
6.800	2.43	14.69	HS 48.58	87.4
6.900	2.02	20.71	HS 40.30	72.5
7.000	1.73	20.01	HS 34.56	62.2

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	1.73	1.73	HS 34.50	62.1
7.100	17.41	2.01	HS 40.15	72.3
7.200	14.55	2.41	HS 48.30	86.9
7.300	9.59	3.00	HS 60.04	108.1
7.400	6.76	3.65	HS 72.97	131.3
7.500	4.64	4.66	HS 92.75	166.9
7.600	3.60	6.69	HS 71.94	129.5
7.700	2.96	9.83	HS 59.22	106.6
7.800	2.42	15.30	HS 48.49	87.3
7.900	2.01	22.85	HS 40.15	72.3
8.000	1.72	21.70	HS 34.36	61.8
8.000	1.72	1.59	HS 31.73	57.1
8.100	54.28	1.81	HS 36.20	65.2
8.200	24.92	2.13	HS 42.68	76.8
8.300	14.80	2.63	HS 52.66	94.8
8.400	9.75	3.32	HS 66.41	119.5
8.500	6.70	4.02	HS 80.41	144.7
8.600	5.10	5.29	HS 101.94	183.5
8.700	3.77	7.17	HS 75.33	135.6
8.800	2.90	10.78	HS 58.11	104.6
8.900	2.32	20.97	HS 46.35	83.4
9.000	1.90	29.72	HS 38.00	68.4

## SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
1.000 67.6	167.6	167.6	-167.6	-167.6	167.6	167.6	-167.6	-1
1.100 75.7	173.0	173.0	-162.2	-162.2	159.6	159.6	-175.7	-1
1.200 81.5	176.9	176.9	-158.4	-158.4	153.8	153.8	-181.5	-1
1.300 84.9	179.2	179.2	-156.1	-156.1	150.3	150.3	-184.9	-1
1.400 86.1	179.9	179.9	-155.4	-155.4	149.2	149.2	-186.1	-1
1.500 84.8	179.1	179.1	-156.2	-156.2	150.4	150.4	-184.8	-1
1.600 81.1	176.6	176.6	-158.7	-158.7	154.2	154.2	-181.1	-1
1.700 75.1	172.6	172.6	-162.7	-162.7	160.2	160.2	-175.1	-1
1.800 66.7	167.0	167.0	-168.3	-168.3	168.6	168.6	-166.7	-1
1.900 56.0	159.9	159.9	-175.4	-175.4	179.3	179.3	-156.0	-1
2.000 43.0	151.2	151.2	-184.1	-184.1	192.3	192.3	-143.0	-1
2.000 43.0	151.2	151.2	-184.1	-184.1	192.3	192.3	-143.0	-1
2.100 54.2	158.7	158.7	-176.6	-176.6	181.1	181.1	-154.2	-1
2.200 63.1	164.6	164.6	-170.7	-170.7	172.2	172.2	-163.1	-1
2.300 69.7	169.0	169.0	-166.3	-166.3	165.6	165.6	-169.7	-1
2.400 73.9	171.8	171.8	-163.5	-163.5	161.4	161.4	-173.9	-1
2.500 75.8	173.1	173.1	-162.2	-162.2	159.5	159.5	-175.8	-1
2.600 75.2	172.7	172.7	-162.6	-162.6	160.0	160.0	-175.2	-1
2.700 72.3	170.8	170.8	-164.5	-164.5	163.0	163.0	-172.3	-1
2.800 67.1	167.3	167.3	-168.0	-168.0	168.2	168.2	-167.1	-1
2.900 59.5	162.2	162.2	-173.1	-173.1	175.8	175.8	-159.5	-1



3.000 49.6	155.6	155.6	-179.7	-179.7	185.7	185.7	-149.6	-1
3.000 49.6	155.6	155.6	-179.7	-179.7	185.7	185.7	-149.6	-1
3.100 60.0	162.5	162.5	-172.7	-172.7	175.3	175.3	-160.0	-1
3.200 68.0	167.9	167.9	-167.4	-167.4	167.2	167.2	-168.0	-1
3.300 73.8	171.7	171.7	-163.6	-163.6	161.5	161.5	-173.8	-1
3.400 77.2	174.0	174.0	-161.3	-161.3	158.1	158.1	-177.2	-1
3.500 78.2	174.7	174.7	-160.6	-160.6	157.0	157.0	-178.2	-1
3.600 76.8	173.7	173.7	-161.5	-161.5	158.5	158.5	-176.8	-1
3.700 73.0	171.2	171.2	-164.0	-164.0	162.2	162.2	-173.0	-1
3.800 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
3.900 58.5	161.6	161.6	-173.7	-173.7	176.7	176.7	-158.5	-1
4.000 47.8	154.4	154.4	-180.9	-180.9	187.5	187.5	-147.8	-1

SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 47.8	154.4	154.4	-180.9	-180.9	187.5	187.5	-147.8	-1
4.100 58.4	161.5	161.5	-173.8	-173.8	176.9	176.9	-158.4	-1
4.200 66.7	167.0	167.0	-168.3	-168.3	168.6	168.6	-166.7	-1
4.300 72.7	171.0	171.0	-164.3	-164.3	162.6	162.6	-172.7	-1
4.400 76.3	173.4	173.4	-161.9	-161.9	159.0	159.0	-176.3	-1
4.500 77.6	174.3	174.3	-161.0	-161.0	157.6	157.6	-177.6	-1
4.600 76.4	173.5	173.5	-161.8	-161.8	158.8	158.8	-176.4	-1
4.700 72.9	171.2	171.2	-164.1	-164.1	162.4	162.4	-172.9	-1
4.800 67.1	167.3	167.3	-168.0	-168.0	168.2	168.2	-167.1	-1
4.900 58.9	161.8	161.8	-173.5	-173.5	176.4	176.4	-158.9	-1
5.000 48.4	154.8	154.8	-180.5	-180.5	186.9	186.9	-148.4	-1
5.000 48.4	154.8	154.8	-180.5	-180.5	186.9	186.9	-148.4	-1
5.100 58.9	161.8	161.8	-173.5	-173.5	176.4	176.4	-158.9	-1
5.200 67.1	167.3	167.3	-168.0	-168.0	168.2	168.2	-167.1	-1
5.300 72.9	171.2	171.2	-164.1	-164.1	162.4	162.4	-172.9	-1
5.400 76.4	173.5	173.5	-161.8	-161.8	158.8	158.8	-176.4	-1
5.500 77.6	174.3	174.3	-161.0	-161.0	157.6	157.6	-177.6	-1
5.600 76.3	173.4	173.4	-161.9	-161.9	159.0	159.0	-176.3	-1
5.700 72.7	171.0	171.0	-164.3	-164.3	162.6	162.6	-172.7	-1
5.800 66.7	167.0	167.0	-168.3	-168.3	168.6	168.6	-166.7	-1
5.900 58.4	161.5	161.5	-173.8	-173.8	176.9	176.9	-158.4	-1

6.000 47.8	154.4	154.4	-180.9	-180.9	187.5	187.5	-147.8	-1
6.000 47.8	154.4	154.4	-180.9	-180.9	187.5	187.5	-147.8	-1
6.100 58.5	161.6	161.6	-173.7	-173.7	176.7	176.7	-158.5	-1
6.200 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
6.300 73.0	171.2	171.2	-164.0	-164.0	162.2	162.2	-173.0	-1
6.400 76.8	173.7	173.7	-161.5	-161.5	158.5	158.5	-176.8	-1
6.500 78.2	174.7	174.7	-160.6	-160.6	157.0	157.0	-178.2	-1
6.600 77.2	174.0	174.0	-161.3	-161.3	158.1	158.1	-177.2	-1
6.700 73.8	171.7	171.7	-163.6	-163.6	161.5	161.5	-173.8	-1
6.800 68.0	167.9	167.9	-167.4	-167.4	167.2	167.2	-168.0	-1
6.900 60.0	162.5	162.5	-172.7	-172.7	175.3	175.3	-160.0	-1
7.000 49.6	155.6	155.6	-179.7	-179.7	185.7	185.7	-149.6	-1



9.000	167.6	167.6	-167.6	-167.6	167.6	167.6	-167.6	-1
67.6								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	2.31	30.39	2.31	30.39	HS 46.21	83.2
1.200	1.38	15.69	1.38	15.69	HS 27.51	49.5
1.300	1.15	10.66	1.15	10.66	HS 22.92	41.3
1.400	1.14	8.04	1.14	8.04	HS 22.77	41.0
1.500	1.19	6.39	1.19	6.39	HS 23.80	42.8
1.600	1.34	5.22	1.34	5.22	HS 26.80	48.2
1.700	1.62	4.32	1.62	4.32	HS 32.39	58.3
1.800	2.73	3.60	2.73	3.60	HS 54.65	98.4
1.900	7.82	2.58	7.82	2.58	HS 51.63	92.9
2.000	12.41	1.27	12.41	1.27	HS 25.47	45.8
2.000	12.41	1.27	12.41	1.27	HS 25.47	45.8
2.100	7.61	2.05	7.61	2.05	HS 40.96	73.7
2.200	2.60	2.62	2.60	2.62	HS 52.05	93.7
2.300	1.78	3.28	1.78	3.28	HS 35.52	63.9
2.400	1.57	4.23	1.57	4.23	HS 31.31	56.4
2.500	1.62	5.76	1.62	5.76	HS 32.31	58.2
2.600	1.58	5.66	1.58	5.66	HS 31.63	56.9
2.700	1.80	4.45	1.80	4.45	HS 35.93	64.7
2.800	2.68	3.59	2.68	3.59	HS 53.58	96.4
2.900	6.55	2.62	6.55	2.62	HS 52.51	94.5
3.000	8.31	1.41	8.31	1.41	HS 28.19	50.7
3.000	8.31	1.41	8.31	1.41	HS 28.19	50.7
3.100	6.32	2.59	6.32	2.59	HS 51.71	93.1
3.200	2.65	3.58	2.65	3.58	HS 53.04	95.5
3.300	1.78	4.46	1.78	4.46	HS 35.59	64.1
3.400	1.56	5.72	1.56	5.72	HS 31.20	56.2
3.500	1.61	7.58	1.61	7.58	HS 32.11	57.8
3.600	1.57	5.76	1.57	5.76	HS 31.31	56.4
3.700	1.79	4.48	1.79	4.48	HS 35.82	64.5
3.800	2.68	3.59	2.68	3.59	HS 53.59	96.5
3.900	6.71	2.61	6.71	2.61	HS 52.13	93.8
4.000	10.91	1.40	10.91	1.40	HS 27.96	50.3

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	10.91	1.40	10.91	1.40	HS 27.96	50.3
4.100	6.62	2.60	6.62	2.60	HS 52.02	93.6
4.200	2.68	3.58	2.68	3.58	HS 53.65	96.6
4.300	1.79	4.47	1.79	4.47	HS 35.90	64.6
4.400	1.57	5.74	1.57	5.74	HS 31.40	56.5
4.500	1.61	7.48	1.61	7.48	HS 32.26	58.1
4.600	1.57	5.75	1.57	5.75	HS 31.38	56.5
4.700	1.79	4.48	1.79	4.48	HS 35.85	64.5
4.800	2.68	3.59	2.68	3.59	HS 53.55	96.4
4.900	6.63	2.61	6.63	2.61	HS 52.24	94.0
5.000	10.70	1.40	10.70	1.40	HS 28.08	50.6
5.000	10.70	1.40	10.70	1.40	HS 28.08	50.6
5.100	6.52	2.61	6.52	2.61	HS 52.24	94.0
5.200	2.68	3.59	2.68	3.59	HS 53.55	96.4
5.300	1.79	4.48	1.79	4.48	HS 35.85	64.5
5.400	1.57	5.75	1.57	5.75	HS 31.38	56.5
5.500	1.61	7.48	1.61	7.48	HS 32.26	58.1
5.600	1.57	5.74	1.57	5.74	HS 31.40	56.5
5.700	1.79	4.47	1.79	4.47	HS 35.90	64.6
5.800	2.68	3.58	2.68	3.58	HS 53.65	96.6
5.900	6.73	2.60	6.73	2.60	HS 52.02	93.6
6.000	10.91	1.40	10.91	1.40	HS 27.96	50.3
6.000	10.91	1.40	10.91	1.40	HS 27.96	50.3
6.100	6.60	2.61	6.60	2.61	HS 52.13	93.8
6.200	2.68	3.59	2.68	3.59	HS 53.59	96.5
6.300	1.79	4.48	1.79	4.48	HS 35.82	64.5
6.400	1.57	5.76	1.57	5.76	HS 31.31	56.4
6.500	1.61	7.58	1.61	7.58	HS 32.11	57.8
6.600	1.56	5.72	1.56	5.72	HS 31.20	56.2
6.700	1.78	4.46	1.78	4.46	HS 35.59	64.1
6.800	2.65	3.58	2.65	3.58	HS 53.04	95.5
6.900	6.42	2.59	6.42	2.59	HS 51.72	93.1
7.000	8.31	1.41	8.31	1.41	HS 28.22	50.8

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	8.31	1.41	8.31	1.41	HS 28.22	50.8
7.100	6.44	2.62	6.44	2.62	HS 52.50	94.5
7.200	2.68	3.59	2.68	3.59	HS 53.58	96.4
7.300	1.80	4.45	1.80	4.45	HS 35.93	64.7
7.400	1.58	5.66	1.58	5.66	HS 31.63	56.9
7.500	1.62	5.76	1.62	5.76	HS 32.31	58.2
7.600	1.57	4.23	1.57	4.23	HS 31.31	56.4
7.700	1.78	3.28	1.78	3.28	HS 35.52	63.9
7.800	2.60	2.62	2.60	2.62	HS 52.05	93.7
7.900	7.75	2.05	7.75	2.05	HS 40.96	73.7
8.000	12.41	1.27	12.41	1.27	HS 25.48	45.9
8.000	12.41	1.27	12.41	1.27	HS 25.48	45.9
8.100	7.68	2.58	7.68	2.58	HS 51.61	92.9
8.200	2.73	3.60	2.73	3.60	HS 54.65	98.4
8.300	1.62	4.32	1.62	4.32	HS 32.39	58.3
8.400	1.34	5.22	1.34	5.22	HS 26.80	48.2
8.500	1.19	6.39	1.19	6.39	HS 23.80	42.8
8.600	1.14	8.04	1.14	8.04	HS 22.77	41.0
8.700	1.15	10.66	1.15	10.66	HS 22.92	41.3
8.800	1.38	15.69	1.38	15.69	HS 27.51	49.5
8.900	2.31	30.39	2.31	30.39	HS 46.21	83.2
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	12.3	69.06 L	43.62	53.12	33.55
1.200	2.1	21.0	111.79 L	74.30	85.99	57.16
1.300	2.6	26.2	131.19 L	94.42	100.92	72.63
1.400	2.8	27.9	131.09 L	102.53	100.84	78.87
1.500	2.6	26.1	126.40 L	101.45	97.23	78.03
1.600	2.0	20.5	115.03 L	90.18	88.49	69.37
1.700	1.1	11.3	98.91 L	72.00	76.08	55.39
1.800	-0.2	-1.4	61.69 L	47.01	47.46	36.16
1.900	-1.8	-17.6	-59.93 R	-60.44	-46.10	-46.49
2.000	-3.8	-37.3	-112.30 L	-100.93	-86.38	-77.64
2.000	-3.8	-37.3	-112.30 L	-100.93	-86.38	-77.64
2.100	-2.1	-20.3	-75.31 R	-62.54	-57.93	-48.11
2.200	-0.7	-6.8	66.16 R	45.53	50.89	35.02
2.300	0.3	3.1	93.24 R	67.74	71.73	52.11
2.400	0.9	9.5	103.09 R	80.84	79.30	62.18
2.500	1.2	12.5	98.70 L	86.01	75.92	66.16
2.600	1.1	11.5	101.20 L	81.04	77.84	62.34
2.700	0.7	7.1	90.72 L	68.31	69.78	52.54
2.800	-0.1	-0.8	62.79 L	47.65	48.30	36.66
2.900	-1.3	-12.3	-60.76 L	-56.30	-46.74	-43.31
3.000	-2.8	-27.3	-106.16 L	-94.15	-81.66	-72.42
3.000	-2.8	-27.3	-106.16 L	-94.15	-81.66	-72.42
3.100	-1.2	-11.6	-61.87 R	-56.08	-47.59	-43.14
3.200	0.0	0.6	63.06 R	47.85	48.51	36.81
3.300	0.9	9.3	90.77 R	69.19	69.83	53.22
3.400	1.4	14.5	101.38 R	81.95	77.98	63.04
3.500	1.6	16.1	97.81 L	86.88	75.24	66.83
3.600	1.4	13.9	101.24 L	81.67	77.88	62.82
3.700	0.8	8.2	90.59 L	68.64	69.69	52.80
3.800	-0.1	-1.0	62.82 L	47.60	48.32	36.62
3.900	-1.4	-13.8	-60.83 L	-56.80	-46.79	-43.69
4.000	-3.0	-30.0	-105.72 L	-95.14	-81.33	-73.18

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
4.000	-3.0	-30.0	-105.72	L	-81.33	-73.18
4.100	-1.4	-13.9	-60.91	R	-46.85	-43.78
4.200	-0.2	-1.4	62.84	R	48.34	36.10
4.300	0.7	7.7	90.60	R	69.69	52.62
4.400	1.3	13.2	101.25	R	77.89	62.56
4.500	1.5	15.2	97.75	L	75.19	66.50
4.600	1.3	13.4	101.24	L	77.88	62.62
4.700	0.8	8.0	90.59	L	69.68	52.73
4.800	-0.1	-0.8	62.82	L	48.33	36.68
4.900	-1.3	-13.2	-60.84	L	-46.80	-43.51
5.000	-2.9	-29.1	-105.69	R	-81.30	-72.88
5.000	-2.9	-29.1	-105.69	R	-81.30	-72.88
5.100	-1.3	-13.2	-60.84	R	-46.80	-43.53
5.200	-0.1	-0.8	62.82	R	48.33	36.28
5.300	0.8	8.0	90.59	R	69.68	52.73
5.400	1.3	13.4	101.24	R	77.88	62.62
5.500	1.5	15.2	97.75	R	75.19	66.50
5.600	1.3	13.2	101.25	L	77.89	62.56
5.700	0.7	7.7	90.60	L	69.69	52.62
5.800	-0.2	-1.4	62.84	L	48.34	36.50
5.900	-1.4	-13.9	-60.91	L	-46.85	-43.76
6.000	-3.0	-30.0	-105.71	L	-81.32	-73.18
6.000	-3.0	-30.0	-105.71	L	-81.32	-73.18
6.100	-1.4	-13.8	-60.83	R	-46.79	-43.72
6.200	-0.1	-1.0	62.82	R	48.32	36.21
6.300	0.8	8.2	90.59	R	69.69	52.80
6.400	1.4	13.9	101.24	R	77.88	62.82
6.500	1.6	16.1	97.81	R	75.24	66.83
6.600	1.4	14.5	101.37	L	77.98	63.04
6.700	0.9	9.3	90.77	L	69.83	53.22
6.800	0.0	0.6	63.06	L	48.51	37.21
6.900	-1.2	-11.6	-61.87	L	-47.59	-43.12
7.000	-2.8	-27.3	-106.03	L	-81.56	-72.42

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane	
7.000	-2.8	-27.3	-106.03	L	-94.15	-81.56	-72.42
7.100	-1.3	-12.3	-60.76	R	-56.32	-46.74	-43.33
7.200	-0.1	-0.8	62.79	R	47.13	48.30	36.25
7.300	0.7	7.1	90.72	R	68.31	69.78	52.55
7.400	1.1	11.5	101.20	R	81.04	77.84	62.34
7.500	1.2	12.5	98.70	R	86.01	75.92	66.16
7.600	0.9	9.5	103.09	L	80.84	79.30	62.18
7.700	0.3	3.1	93.24	L	67.74	71.73	52.11
7.800	-0.7	-6.8	66.16	L	45.53	50.89	35.02
7.900	-2.1	-20.3	-75.31	L	-62.52	-57.93	-48.09
8.000	-3.8	-37.3	-112.26	R	-100.93	-86.35	-77.64
8.000	-3.8	-37.3	-112.26	R	-100.93	-86.35	-77.64
8.100	-1.8	-17.6	-59.93	L	-60.46	-46.10	-46.51
8.200	-0.2	-1.4	61.69	R	46.48	47.46	35.76
8.300	1.1	11.3	98.91	R	72.00	76.08	55.39
8.400	2.0	20.5	115.03	R	90.18	88.49	69.37
8.500	2.6	26.1	126.40	R	101.45	97.23	78.03
8.600	2.8	27.9	131.09	R	102.53	100.84	78.87
8.700	2.6	26.2	131.19	R	94.42	100.92	72.63
8.800	2.1	21.0	111.79	R	74.30	85.99	57.16
8.900	1.2	12.3	69.06	R	43.62	53.12	33.55
9.000	0.0	0.0	0.00	R	0.00	0.00	0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

HS20

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
1	1.100	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.
7	1.200	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
5	1.300	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
3	1.400	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
3	1.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
1	1.600	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
0	1.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	1.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	1.900	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	2.100	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
1	2.200	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
0	2.300	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	2.400	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
3	2.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
3	2.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
4	2.700	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
7	2.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	2.900	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.

6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
9	3.100	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
3	3.200	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
8	3.300	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
5	3.400	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
3	3.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
9	3.600	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
6	3.700	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
5	3.800	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
5	3.900	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

HS20

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
4.100	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.
4.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
4.300	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
4.400	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
4.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
4.600	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
4.700	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
4.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4.900	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
5.100	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
5.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
5.300	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
5.400	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
5.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
5.600	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
5.700	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
5.900	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.

6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
5	6.100	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
5	6.200	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
9	6.400	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
3	6.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
5	6.600	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
8	6.700	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
3	6.800	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
9	6.900	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

HS20

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
1	7.100	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.
7	7.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4	7.300	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
3	7.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
3	7.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
1	7.600	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
0	7.700	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	7.800	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
3	7.900	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
6	8.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	8.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	8.100	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
1	8.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
0	8.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	8.400	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
3	8.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
3	8.600	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
5	8.700	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
7	8.800	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
1	8.900	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	HS 999.00 999.0
1.100	4.16	48.79	3.69	54.32	HS 73.90 133.0
1.200	2.48	25.23	2.20	27.99	HS 43.93 79.1
1.300	2.07	17.15	1.83	18.99	HS 36.56 65.8
1.400	2.06	12.94	1.82	14.32	HS 36.31 65.4
1.500	2.15	10.28	1.90	11.39	HS 37.97 68.3
1.600	2.42	8.39	2.14	9.31	HS 42.80 77.0
1.700	2.91	6.94	2.59	7.73	HS 51.82 93.3
1.800	4.90	5.77	4.38	6.47	HS 87.60 157.7
1.900	13.97	4.12	12.57	4.65	HS 82.49 148.5
2.000	22.05	2.03	19.99	2.31	HS 40.53 73.0
2.000	22.05	2.03	19.99	2.31	HS 40.53 73.0
2.100	13.57	3.27	12.23	3.69	HS 65.41 117.7
2.200	4.66	4.20	4.18	4.71	HS 83.50 150.3
2.300	3.19	5.26	2.85	5.88	HS 56.90 102.4
2.400	2.82	6.79	2.51	7.57	HS 50.09 90.2
2.500	2.91	9.25	2.58	10.30	HS 51.67 93.0
2.600	2.85	9.08	2.53	10.11	HS 50.59 91.1
2.700	3.23	7.14	2.88	7.96	HS 57.51 103.5
2.800	4.80	5.76	4.29	6.45	HS 85.87 154.6
2.900	11.70	4.20	10.51	4.72	HS 83.97 151.1
3.000	14.80	2.25	13.37	2.55	HS 44.95 80.9
3.000	14.80	2.25	13.37	2.55	HS 44.95 80.9
3.100	11.30	4.14	10.15	4.65	HS 82.72 148.9
3.200	4.76	5.74	4.25	6.42	HS 84.99 153.0
3.300	3.20	7.16	2.85	7.98	HS 56.94 102.5
3.400	2.81	9.19	2.49	10.22	HS 49.87 89.8
3.500	2.89	12.18	2.57	13.54	HS 51.32 92.4
3.600	2.82	9.24	2.50	10.28	HS 50.06 90.1
3.700	3.22	7.19	2.87	8.02	HS 57.32 103.2
3.800	4.80	5.75	4.30	6.44	HS 85.90 154.6
3.900	11.98	4.17	10.77	4.69	HS 83.35 150.0
4.000	19.42	2.23	17.56	2.53	HS 44.57 80.2

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	+bend	-bend		
4.000	19.42	2.23	17.56	2.53	HS 44.57	80.2
4.100	11.82	4.16	10.63	4.68	HS 83.17	149.7
4.200	4.81	5.74	4.30	6.43	HS 86.00	154.8
4.300	3.23	7.17	2.87	8.00	HS 57.45	103.4
4.400	2.83	9.22	2.51	10.26	HS 50.21	90.4
4.500	2.90	12.02	2.58	13.36	HS 51.56	92.8
4.600	2.83	9.23	2.51	10.27	HS 50.17	90.3
4.700	3.22	7.19	2.87	8.02	HS 57.37	103.3
4.800	4.80	5.76	4.29	6.45	HS 85.83	154.5
4.900	11.85	4.18	10.65	4.70	HS 83.53	150.4
5.000	19.05	2.24	17.22	2.54	HS 44.77	80.6
5.000	19.05	2.24	17.22	2.54	HS 44.77	80.6
5.100	11.66	4.18	10.48	4.70	HS 83.53	150.4
5.200	4.80	5.76	4.29	6.45	HS 85.83	154.5
5.300	3.22	7.19	2.87	8.02	HS 57.37	103.3
5.400	2.83	9.23	2.51	10.27	HS 50.17	90.3
5.500	2.90	12.02	2.58	13.36	HS 51.56	92.8
5.600	2.83	9.22	2.51	10.26	HS 50.21	90.4
5.700	3.23	7.17	2.87	8.00	HS 57.45	103.4
5.800	4.81	5.74	4.30	6.43	HS 86.00	154.8
5.900	12.02	4.16	10.81	4.68	HS 83.17	149.7
6.000	19.42	2.23	17.56	2.53	HS 44.57	80.2
6.000	19.42	2.23	17.56	2.53	HS 44.57	80.2
6.100	11.79	4.17	10.59	4.69	HS 83.35	150.0
6.200	4.80	5.75	4.30	6.44	HS 85.90	154.6
6.300	3.22	7.19	2.87	8.02	HS 57.32	103.2
6.400	2.82	9.24	2.50	10.28	HS 50.06	90.1
6.500	2.89	12.18	2.57	13.54	HS 51.32	92.4
6.600	2.81	9.19	2.49	10.22	HS 49.87	89.8
6.700	3.20	7.16	2.85	7.98	HS 56.94	102.5
6.800	4.76	5.74	4.25	6.42	HS 84.99	153.0
6.900	11.49	4.14	10.31	4.65	HS 82.72	148.9
7.000	14.80	2.25	13.37	2.55	HS 45.01	81.0

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	14.80	2.25	13.37	2.55	HS 45.01	81.0
7.100	11.51	4.20	10.34	4.72	HS 83.97	151.1
7.200	4.80	5.76	4.29	6.45	HS 85.87	154.6
7.300	3.23	7.14	2.88	7.96	HS 57.51	103.5
7.400	2.85	9.08	2.53	10.11	HS 50.59	91.1
7.500	2.91	9.25	2.58	10.30	HS 51.67	93.0
7.600	2.82	6.79	2.51	7.57	HS 50.09	90.2
7.700	3.19	5.26	2.85	5.88	HS 56.90	102.4
7.800	4.66	4.20	4.18	4.71	HS 83.50	150.3
7.900	13.82	3.27	12.46	3.69	HS 65.41	117.7
8.000	22.05	2.03	19.99	2.31	HS 40.55	73.0
8.000	22.05	2.03	19.99	2.31	HS 40.55	73.0
8.100	13.70	4.12	12.34	4.65	HS 82.46	148.4
8.200	4.90	5.77	4.38	6.47	HS 87.60	157.7
8.300	2.91	6.94	2.59	7.73	HS 51.82	93.3
8.400	2.42	8.39	2.14	9.31	HS 42.80	77.0
8.500	2.15	10.28	1.90	11.39	HS 37.97	68.3
8.600	2.06	12.94	1.82	14.32	HS 36.31	65.4
8.700	2.07	17.15	1.83	18.99	HS 36.56	65.8
8.800	2.48	25.23	2.20	27.99	HS 43.93	79.1
8.900	4.16	48.79	3.69	54.32	HS 73.90	133.0
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	5.9	34.71	27.16	26.70	20.89
1.100	0.4	4.4	28.88	23.25	22.21	17.88
1.200	0.3	2.9	23.37	19.54	17.98	15.03
1.300	0.1	1.5	18.28	16.05	14.06	12.35
1.400	0.0	-0.1	13.70	12.82	10.54	9.86
1.500	-0.2	-1.5	-17.10	-15.53	-13.16	-11.95
1.600	-0.3	-3.1	-20.41	-18.56	-15.70	-14.27
1.700	-0.5	-4.6	-25.37	-21.50	-19.52	-16.54
1.800	-0.6	-6.0	-30.85	-24.31	-23.73	-18.70
1.900	-0.8	-7.5	-35.84	-26.94	-27.57	-20.72
2.000	-0.9	-9.0	-40.27	-29.34	-30.98	-22.57
2.000	0.8	-9.0	37.28	29.08	28.68	22.37
2.100	0.6	6.4	32.69	26.19	25.14	20.15
2.200	0.5	4.9	27.47	23.07	21.13	17.75
2.300	0.3	3.4	22.82	19.82	17.55	15.24
2.400	0.2	2.0	19.05	16.54	14.66	12.72
2.500	0.0	0.5	-15.05	13.32	-11.58	10.25
2.600	-0.1	-1.1	-18.94	-16.49	-14.57	-12.69
2.700	-0.3	-2.6	-22.69	-19.75	-17.45	-15.20
2.800	-0.4	-4.1	-27.81	-22.96	-21.39	-17.66
2.900	-0.6	-5.5	-32.97	-26.00	-25.36	-20.00
3.000	-0.7	-7.0	-37.80	-28.78	-29.08	-22.14
3.000	0.7	7.3	37.61	28.93	28.93	22.25
3.100	0.6	5.8	32.74	26.12	25.18	20.09
3.200	0.4	4.4	27.56	23.04	21.20	17.72
3.300	0.3	2.9	22.61	19.80	17.39	15.23
3.400	0.1	1.4	18.84	16.51	14.49	12.70
3.500	0.0	-0.1	14.90	-13.40	11.46	-10.31
3.600	-0.2	-1.6	-18.83	-16.63	-14.48	-12.80
3.700	-0.3	-3.1	-22.60	-19.92	-17.38	-15.32
3.800	-0.5	-4.6	-27.59	-23.15	-21.22	-17.81
3.900	-0.6	-6.1	-32.76	-26.23	-25.20	-20.17
4.000	-0.8	-7.5	-37.62	-29.03	-28.94	-22.33

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-7.5	37.61	29.00	28.93	22.31
4.100	0.6	6.0	32.74	26.19	25.19	20.15
4.200	0.5	4.5	27.57	23.12	21.21	17.78
4.300	0.3	3.0	22.59	19.88	17.38	15.29
4.400	0.2	1.6	18.82	16.59	14.48	12.76
4.500	0.0	0.1	14.89	13.36	11.46	10.28
4.600	-0.1	-1.5	-18.82	-16.56	-14.48	-12.74
4.700	-0.3	-3.0	-22.59	-19.85	-17.38	-15.27
4.800	-0.4	-4.4	-27.57	-23.09	-21.21	-17.76
4.900	-0.6	-5.9	-32.74	-26.16	-25.19	-20.12
5.000	-0.7	-7.4	-37.61	-28.97	-28.93	-22.28
5.000	0.7	7.4	37.61	28.97	28.93	22.28
5.100	0.6	5.9	32.74	26.16	25.19	20.12
5.200	0.4	4.4	27.57	23.09	21.21	17.76
5.300	0.3	3.0	22.59	19.85	17.38	15.27
5.400	0.1	1.5	18.82	16.56	14.48	12.74
5.500	0.0	0.1	14.89	-13.36	11.46	-10.28
5.600	-0.2	-1.6	-18.82	-16.59	-14.48	-12.76
5.700	-0.3	-3.0	-22.59	-19.88	-17.38	-15.29
5.800	-0.5	-4.5	-27.57	-23.12	-21.21	-17.78
5.900	-0.6	-6.0	-32.74	-26.19	-25.19	-20.15
6.000	-0.7	-7.5	-37.61	-29.00	-28.93	-22.31
6.000	0.8	7.5	37.62	29.03	28.94	22.33
6.100	0.6	6.1	32.76	26.23	25.20	20.17
6.200	0.5	4.6	27.59	23.15	21.22	17.81
6.300	0.3	3.1	22.60	19.92	17.38	15.32
6.400	0.2	1.6	18.83	16.63	14.48	12.80
6.500	0.0	0.2	14.90	13.40	11.46	10.31
6.600	-0.1	-1.4	-18.84	-16.51	-14.49	-12.70
6.700	-0.3	-2.9	-22.61	-19.80	-17.39	-15.23
6.800	-0.4	-4.4	-27.56	-23.04	-21.20	-17.72
6.900	-0.6	-5.8	-32.74	-26.12	-25.18	-20.09
7.000	-0.7	-7.3	-37.61	-28.93	-28.93	-22.25

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
7.000	0.7	-7.3	37.80	28.78	29.08	22.14
7.100	0.6	5.5	32.97	26.00	25.36	20.00
7.200	0.4	4.1	27.81	22.96	21.39	17.66
7.300	0.3	2.6	22.69	19.75	17.45	15.20
7.400	0.1	1.1	18.94	16.49	14.57	12.69
7.500	0.0	-0.4	15.05	-13.32	11.58	-10.25
7.600	-0.2	-2.0	-19.05	-16.54	-14.66	-12.72
7.700	-0.3	-3.4	-22.82	-19.82	-17.55	-15.24
7.800	-0.5	-4.9	-27.47	-23.07	-21.13	-17.75
7.900	-0.6	-6.4	-32.69	-26.19	-25.14	-20.15
8.000	-0.8	-7.8	-37.63	-29.08	-28.95	-22.37
8.000	0.9	9.0	40.27	29.34	30.98	22.57
8.100	0.8	7.5	35.84	26.94	27.57	20.72
8.200	0.6	6.0	30.85	24.31	23.73	18.70
8.300	0.5	4.6	25.37	21.50	19.52	16.54
8.400	0.3	3.1	20.41	18.56	15.70	14.27
8.500	0.2	1.6	17.10	15.53	13.16	11.95
8.600	0.0	0.1	-13.70	-12.82	-10.54	-9.86
8.700	-0.1	-1.5	-18.28	-16.05	-14.06	-12.35
8.800	-0.3	-2.9	-23.37	-19.54	-17.98	-15.03
8.900	-0.4	-4.4	-28.88	-23.25	-22.21	-17.88
9.000	-0.6	-5.9	-34.71	-27.16	-26.70	-20.89

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-122.8	109.9
1.100	151.3	-121.2	111.5
1.200	151.3	-119.6	113.2
1.300	151.3	-118.0	114.8
1.400	151.3	-116.3	116.4
1.500	151.3	-114.7	118.0
1.600	151.3	-113.0	119.8
1.700	151.3	-111.3	121.4
1.800	151.3	-109.7	123.0
1.900	151.3	-108.1	124.6
2.000	151.3	-106.5	126.3
2.000	151.3	-106.5	107.7
2.100	151.3	-123.4	109.4
2.200	151.3	-121.8	111.0
2.300	151.3	-120.1	112.6
2.400	151.3	-118.5	114.2
2.500	151.3	-116.9	115.8
2.600	151.3	-115.1	117.6
2.700	151.3	-113.5	119.2
2.800	151.3	-111.9	120.8
2.900	151.3	-110.3	122.5
3.000	151.3	-108.7	117.1
3.000	151.3	-108.7	108.3
3.100	151.3	-122.8	110.0
3.200	151.3	-121.2	111.6
3.300	151.3	-119.6	113.2
3.400	151.3	-117.9	114.8
3.500	151.3	-116.3	116.4
3.600	151.3	-114.6	118.2
3.700	151.3	-112.9	119.8
3.800	151.3	-111.3	121.4
3.900	151.3	-109.7	123.0
4.000	151.3	-108.1	117.1



## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-108.1	108.2
4.100	151.3	-123.0	109.8
4.200	151.3	-121.3	111.4
4.300	151.3	-119.7	113.0
4.400	151.3	-118.1	114.6
4.500	151.3	-116.5	116.3
4.600	151.3	-114.7	118.0
4.700	151.3	-113.1	119.6
4.800	151.3	-111.5	121.3
4.900	151.3	-109.9	122.9
5.000	151.3	-108.2	117.1
5.000	151.3	-108.2	108.2
5.100	151.3	-122.9	109.9
5.200	151.3	-121.3	111.5
5.300	151.3	-119.6	113.1
5.400	151.3	-118.0	114.7
5.500	151.3	-116.4	116.3
5.600	151.3	-114.6	118.1
5.700	151.3	-113.0	119.7
5.800	151.3	-111.4	121.3
5.900	151.3	-109.8	123.0
6.000	151.3	-108.2	117.1
6.000	151.3	-108.2	108.1
6.100	151.3	-123.0	109.7
6.200	151.3	-121.4	111.3
6.300	151.3	-119.8	112.9
6.400	151.3	-118.2	114.6
6.500	151.3	-116.6	116.2
6.600	151.3	-114.8	117.9
6.700	151.3	-113.2	119.6
6.800	151.3	-111.6	121.2
6.900	151.3	-110.0	122.8
7.000	151.3	-108.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-108.3	108.7
7.100	151.3	-122.5	110.3
7.200	151.3	-120.8	111.9
7.300	151.3	-119.2	113.5
7.400	151.3	-117.6	115.1
7.500	151.3	-116.0	116.8
7.600	151.3	-114.2	118.5
7.700	151.3	-112.6	120.1
7.800	151.3	-111.0	121.8
7.900	151.3	-109.4	123.4
8.000	151.3	-107.7	117.2
8.000	151.3	-107.7	106.5
8.100	151.3	-124.6	108.1
8.200	151.3	-123.0	109.7
8.300	151.3	-121.4	111.3
8.400	151.3	-119.8	113.0
8.500	151.3	-118.1	114.6
8.600	151.3	-116.4	116.3
8.700	151.3	-114.8	118.0
8.800	151.3	-113.2	119.6
8.900	151.3	-111.5	121.2
9.000	151.3	-109.9	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	52.01	3.17	HS 63.33	114.0
1.100	34.94	3.86	HS 77.26	139.1
1.200	17.98	4.84	HS 96.84	174.3
1.300	11.95	6.28	HS 125.55	226.0
1.400	8.82	8.49	HS 169.90	305.8
1.500	6.71	11.16	HS 134.17	241.5
1.600	5.53	16.25	HS 110.68	199.2
1.700	4.39	24.67	HS 87.77	158.0
1.800	3.56	41.53	HS 71.14	128.0
1.900	3.02	90.47	HS 60.33	108.6
2.000	2.64	199.64	HS 52.88	95.2
2.000	2.64	2.89	HS 52.88	95.2
2.100	38.40	3.35	HS 66.92	120.5
2.200	25.49	4.04	HS 80.82	145.5
2.300	16.39	4.93	HS 98.69	177.6
2.400	11.15	5.99	HS 119.89	215.8
2.500	7.77	7.72	HS 154.41	277.9
2.600	6.08	11.27	HS 121.61	218.9
2.700	5.00	15.98	HS 100.07	180.1
2.800	4.03	24.24	HS 80.49	144.9
2.900	3.35	27.70	HS 66.91	120.4
3.000	2.88	26.48	HS 57.49	103.5
3.000	2.88	2.88	HS 57.49	103.5
3.100	34.51	3.36	HS 67.17	120.9
3.200	24.48	4.05	HS 80.96	145.7
3.300	16.00	5.01	HS 100.14	180.2
3.400	11.30	6.09	HS 121.89	219.4
3.500	7.80	7.81	HS 156.09	281.0
3.600	6.08	11.33	HS 121.68	219.0
3.700	5.00	16.28	HS 99.96	179.9
3.800	4.03	25.08	HS 80.71	145.3
3.900	3.35	35.13	HS 66.98	120.6
4.000	2.87	33.89	HS 57.45	103.4

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	2.87	2.88	HS 57.45	103.4
4.100	35.12	3.35	HS 67.06	120.7
4.200	24.86	4.04	HS 80.82	145.5
4.300	16.18	5.00	HS 100.06	180.1
4.400	11.32	6.09	HS 121.81	219.3
4.500	7.82	7.81	HS 156.14	281.0
4.600	6.09	11.32	HS 121.90	219.4
4.700	5.01	16.10	HS 100.13	180.2
4.800	4.04	24.69	HS 80.87	145.6
4.900	3.36	34.74	HS 67.11	120.8
5.000	2.88	33.56	HS 57.56	103.6
5.000	2.88	2.88	HS 57.56	103.6
5.100	34.75	3.36	HS 67.11	120.8
5.200	24.69	4.04	HS 80.87	145.6
5.300	16.10	5.01	HS 100.13	180.2
5.400	11.32	6.09	HS 121.90	219.4
5.500	7.82	7.81	HS 156.25	281.2
5.600	6.09	11.32	HS 121.81	219.3
5.700	5.00	16.18	HS 100.06	180.1
5.800	4.04	24.86	HS 80.82	145.5
5.900	3.35	35.12	HS 67.06	120.7
6.000	2.88	33.90	HS 57.52	103.5
6.000	2.88	2.87	HS 57.45	103.4
6.100	35.13	3.35	HS 66.98	120.6
6.200	25.08	4.03	HS 80.71	145.3
6.300	16.28	5.00	HS 99.96	179.9
6.400	11.33	6.08	HS 121.68	219.0
6.500	7.82	7.80	HS 155.91	280.6
6.600	6.09	11.30	HS 121.89	219.4
6.700	5.01	16.00	HS 100.14	180.2
6.800	4.05	24.48	HS 80.96	145.7
6.900	3.36	34.51	HS 67.17	120.9
7.000	2.88	33.35	HS 57.61	103.7

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	2.88	2.88	HS 57.49	103.5
7.100	29.01	3.35	HS 66.91	120.4
7.200	24.24	4.03	HS 80.49	144.9
7.300	15.98	5.00	HS 100.07	180.1
7.400	11.27	6.08	HS 121.61	218.9
7.500	7.73	7.76	HS 154.58	278.2
7.600	5.99	11.15	HS 119.89	215.8
7.700	4.93	16.39	HS 98.69	177.6
7.800	4.04	25.49	HS 80.82	145.5
7.900	3.35	38.09	HS 66.92	120.5
8.000	2.86	36.17	HS 57.26	103.1
8.000	2.86	2.64	HS 52.88	95.2
8.100	90.46	3.02	HS 60.33	108.6
8.200	41.53	3.56	HS 71.14	128.0
8.300	24.67	4.39	HS 87.77	158.0
8.400	16.25	5.53	HS 110.68	199.2
8.500	11.18	6.70	HS 134.02	241.2
8.600	8.49	8.82	HS 169.90	305.8
8.700	6.28	11.95	HS 125.55	226.0
8.800	4.84	17.98	HS 96.84	174.3
8.900	3.86	34.94	HS 77.26	139.1
9.000	3.17	49.53	HS 63.33	114.0



3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.100 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
3.400 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
3.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
3.600 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
3.700 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
3.800 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
3.900 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
4.100 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
4.200 77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
4.300 87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
4.400 93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
4.500 96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
4.600 94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
4.700 88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
4.800 78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
4.900 64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
5.000 47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
5.000 47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
5.100 64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
5.200 78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
5.300 88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
5.400 94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
5.500 96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
5.600 93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
5.700 87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
5.800 77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
5.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2



6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.100 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
6.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
6.300 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
6.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
6.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
6.600 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
6.700 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
6.800 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
6.900 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
7.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2



9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	3.85	50.65	3.85	50.65	HS 77.01	138.6
1.200	2.29	26.16	2.29	26.16	HS 45.86	82.5
1.300	1.91	17.77	1.91	17.77	HS 38.20	68.8
1.400	1.90	13.41	1.90	13.41	HS 37.95	68.3
1.500	1.98	10.66	1.98	10.66	HS 39.67	71.4
1.600	2.23	8.70	2.23	8.70	HS 44.67	80.4
1.700	2.70	7.21	2.70	7.21	HS 53.99	97.2
1.800	4.55	6.01	4.55	6.01	HS 91.08	163.9
1.900	13.04	4.30	13.04	4.30	HS 86.05	154.9
2.000	20.68	2.12	20.68	2.12	HS 42.45	76.4
2.000	20.68	2.12	20.68	2.12	HS 42.45	76.4
2.100	12.68	3.41	12.68	3.41	HS 68.26	122.9
2.200	4.34	4.37	4.34	4.37	HS 86.74	156.1
2.300	2.96	5.47	2.96	5.47	HS 59.20	106.6
2.400	2.61	7.05	2.61	7.05	HS 52.18	93.9
2.500	2.69	9.60	2.69	9.60	HS 53.85	96.9
2.600	2.64	9.43	2.64	9.43	HS 52.72	94.9
2.700	2.99	7.41	2.99	7.41	HS 59.88	107.8
2.800	4.47	5.99	4.47	5.99	HS 89.29	160.7
2.900	10.91	4.38	10.91	4.38	HS 87.51	157.5
3.000	13.85	2.35	13.85	2.35	HS 46.98	84.6
3.000	13.85	2.35	13.85	2.35	HS 46.98	84.6
3.100	10.54	4.31	10.54	4.31	HS 86.19	155.1
3.200	4.42	5.97	4.42	5.97	HS 88.40	159.1
3.300	2.97	7.44	2.97	7.44	HS 59.31	106.8
3.400	2.60	9.53	2.60	9.53	HS 51.99	93.6
3.500	2.68	12.64	2.68	12.64	HS 53.52	96.3
3.600	2.61	9.59	2.61	9.59	HS 52.18	93.9
3.700	2.98	7.47	2.98	7.47	HS 59.70	107.5
3.800	4.47	5.98	4.47	5.98	HS 89.32	160.8
3.900	11.18	4.34	11.18	4.34	HS 86.88	156.4
4.000	18.19	2.33	18.19	2.33	HS 46.60	83.9

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	18.19	2.33	18.19	2.33	HS 46.60	83.9
4.100	11.03	4.34	11.03	4.34	HS 86.70	156.1
4.200	4.47	5.97	4.47	5.97	HS 89.42	161.0
4.300	2.99	7.45	2.99	7.45	HS 59.83	107.7
4.400	2.62	9.57	2.62	9.57	HS 52.33	94.2
4.500	2.69	12.47	2.69	12.47	HS 53.76	96.8
4.600	2.62	9.58	2.62	9.58	HS 52.30	94.1
4.700	2.99	7.47	2.99	7.47	HS 59.75	107.5
4.800	4.46	5.99	4.46	5.99	HS 89.25	160.6
4.900	11.05	4.35	11.05	4.35	HS 87.06	156.7
5.000	17.83	2.34	17.83	2.34	HS 46.81	84.3
5.000	17.83	2.34	17.83	2.34	HS 46.81	84.3
5.100	10.87	4.35	10.87	4.35	HS 87.06	156.7
5.200	4.46	5.99	4.46	5.99	HS 89.25	160.6
5.300	2.99	7.47	2.99	7.47	HS 59.75	107.5
5.400	2.62	9.58	2.62	9.58	HS 52.30	94.1
5.500	2.69	12.47	2.69	12.47	HS 53.76	96.8
5.600	2.62	9.57	2.62	9.57	HS 52.33	94.2
5.700	2.99	7.45	2.99	7.45	HS 59.83	107.7
5.800	4.47	5.97	4.47	5.97	HS 89.42	161.0
5.900	11.21	4.34	11.21	4.34	HS 86.70	156.1
6.000	18.19	2.33	18.19	2.33	HS 46.61	83.9
6.000	18.19	2.33	18.19	2.33	HS 46.61	83.9
6.100	10.99	4.34	10.99	4.34	HS 86.88	156.4
6.200	4.47	5.98	4.47	5.98	HS 89.32	160.8
6.300	2.98	7.47	2.98	7.47	HS 59.70	107.5
6.400	2.61	9.59	2.61	9.59	HS 52.18	93.9
6.500	2.68	12.64	2.68	12.64	HS 53.52	96.3
6.600	2.60	9.53	2.60	9.53	HS 51.99	93.6
6.700	2.97	7.44	2.97	7.44	HS 59.31	106.8
6.800	4.42	5.97	4.42	5.97	HS 88.40	159.1
6.900	10.71	4.31	10.71	4.31	HS 86.19	155.1
7.000	13.85	2.35	13.85	2.35	HS 47.03	84.7

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	13.85	2.35	13.85	2.35	HS 47.03	84.7
7.100	10.73	4.38	10.73	4.38	HS 87.51	157.5
7.200	4.47	5.99	4.47	5.99	HS 89.29	160.7
7.300	2.99	7.41	2.99	7.41	HS 59.88	107.8
7.400	2.64	9.43	2.64	9.43	HS 52.72	94.9
7.500	2.69	9.60	2.69	9.60	HS 53.85	96.9
7.600	2.61	7.05	2.61	7.05	HS 52.18	93.9
7.700	2.96	5.47	2.96	5.47	HS 59.20	106.6
7.800	4.34	4.37	4.34	4.37	HS 86.74	156.1
7.900	12.92	3.41	12.92	3.41	HS 68.26	122.9
8.000	20.68	2.12	20.68	2.12	HS 42.46	76.4
8.000	20.68	2.12	20.68	2.12	HS 42.46	76.4
8.100	12.80	4.30	12.80	4.30	HS 86.02	154.8
8.200	4.55	6.01	4.55	6.01	HS 91.08	163.9
8.300	2.70	7.21	2.70	7.21	HS 53.99	97.2
8.400	2.23	8.70	2.23	8.70	HS 44.67	80.4
8.500	1.98	10.65	1.98	10.65	HS 39.67	71.4
8.600	1.90	13.41	1.90	13.41	HS 37.95	68.3
8.700	1.91	17.77	1.91	17.77	HS 38.20	68.8
8.800	2.29	26.16	2.29	26.16	HS 45.86	82.5
8.900	3.85	50.65	3.85	50.65	HS 77.01	138.6
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
1.000	0.0	0.0	0.00 R 0.00	0.00 0.00
1.100	1.2	12.3	42.08 R 0.00	32.37 0.00
1.200	2.1	21.0	70.29 R 0.00	54.07 0.00
1.300	2.6	26.2	85.62 R 0.00	65.86 0.00
1.400	2.8	27.9	89.41 R 0.00	68.77 0.00
1.500	2.6	26.1	84.95 L 0.00	65.35 0.00
1.600	2.0	20.5	79.32 L 0.00	61.01 0.00
1.700	1.1	11.3	63.71 L 0.00	49.01 0.00
1.800	-0.2	-1.4	40.21 L 0.00	30.93 0.00
1.900	-1.8	-17.6	-34.99 R 0.00	-26.91 0.00
2.000	-3.8	-37.3	-51.52 L 0.00	-39.63 0.00
2.000	-3.8	-37.3	-51.52 L 0.00	-39.63 0.00
2.100	-2.1	-20.3	-44.99 L 0.00	-34.61 0.00
2.200	-0.7	-6.8	42.76 R 0.00	32.90 0.00
2.300	0.3	3.1	61.53 R 0.00	47.33 0.00
2.400	0.9	9.5	71.35 R 0.00	54.88 0.00
2.500	1.2	12.5	72.01 L 0.00	55.39 0.00
2.600	1.1	11.5	70.62 L 0.00	54.33 0.00
2.700	0.7	7.1	59.96 L 0.00	46.12 0.00
2.800	-0.1	-0.8	40.60 L 0.00	31.23 0.00
2.900	-1.3	-12.3	-36.46 R 0.00	-28.05 0.00
3.000	-2.8	-27.3	-42.58 L 0.00	-32.75 0.00
3.000	-2.8	-27.3	-42.58 L 0.00	-32.75 0.00
3.100	-1.2	-11.6	-37.18 L 0.00	-28.60 0.00
3.200	0.0	0.6	40.79 R 0.00	31.37 0.00
3.300	0.9	9.3	59.80 R 0.00	46.00 0.00
3.400	1.4	14.5	70.05 R 0.00	53.88 0.00
3.500	1.6	16.1	71.08 L 0.00	54.68 0.00
3.600	1.4	13.9	70.00 L 0.00	53.84 0.00
3.700	0.8	8.2	59.69 L 0.00	45.91 0.00
3.800	-0.1	-1.0	40.63 L 0.00	31.26 0.00
3.900	-1.4	-13.8	-36.56 R 0.00	-28.13 0.00
4.000	-3.0	-30.0	-41.93 L 0.00	-32.26 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-30.0	-41.93 L	0.00
4.100	-1.4	-13.9	-36.62 L	0.00
4.200	-0.2	-1.4	40.65 R	0.00
4.300	0.7	7.7	59.68 R	0.00
4.400	1.3	13.2	69.96 R	0.00
4.500	1.5	15.2	71.01 L	0.00
4.600	1.3	13.4	69.95 L	0.00
4.700	0.8	8.0	59.67 L	0.00
4.800	-0.1	-0.8	40.63 L	0.00
4.900	-1.3	-13.2	-36.57 R	0.00
5.000	-2.9	-29.1	-41.89 L	0.00
5.000	-2.9	-29.1	-41.89 L	0.00
5.100	-1.3	-13.2	-36.58 L	0.00
5.200	-0.1	-0.8	40.64 R	0.00
5.300	0.8	8.0	59.67 R	0.00
5.400	1.3	13.4	69.95 R	0.00
5.500	1.5	15.2	71.01 R	0.00
5.600	1.3	13.2	69.96 L	0.00
5.700	0.7	7.7	59.68 L	0.00
5.800	-0.2	-1.4	40.65 L	0.00
5.900	-1.4	-13.9	-36.62 R	0.00
6.000	-3.0	-30.0	-41.93 R	0.00
6.000	-3.0	-30.0	-41.93 R	0.00
6.100	-1.4	-13.8	-36.56 L	0.00
6.200	-0.1	-1.0	40.63 R	0.00
6.300	0.8	8.2	59.69 R	0.00
6.400	1.4	13.9	70.00 R	0.00
6.500	1.6	16.1	71.08 R	0.00
6.600	1.4	14.5	70.05 L	0.00
6.700	0.9	9.3	59.80 L	0.00
6.800	0.0	0.6	40.79 L	0.00
6.900	-1.2	-11.6	-37.18 R	0.00
7.000	-2.8	-27.3	-42.57 R	0.00
6.000	-3.0	-30.0	-41.93 R	0.00
6.100	-1.4	-13.8	-36.56 L	0.00
6.200	-0.1	-1.0	40.63 R	0.00
6.300	0.8	8.2	59.69 R	0.00
6.400	1.4	13.9	70.00 R	0.00
6.500	1.6	16.1	71.08 R	0.00
6.600	1.4	14.5	70.05 L	0.00
6.700	0.9	9.3	59.80 L	0.00
6.800	0.0	0.6	40.79 L	0.00
6.900	-1.2	-11.6	-37.18 R	0.00
7.000	-2.8	-27.3	-42.57 R	0.00



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
7.000	-2.8	-27.3	-42.57 R	0.00	-32.75	0.00
7.100	-1.3	-12.3	-36.46 L	0.00	-28.05	0.00
7.200	-0.1	-0.8	40.60 R	0.00	31.23	0.00
7.300	0.7	7.1	59.96 R	0.00	46.12	0.00
7.400	1.1	11.5	70.62 R	0.00	54.33	0.00
7.500	1.2	12.5	72.01 R	0.00	55.39	0.00
7.600	0.9	9.5	71.35 L	0.00	54.88	0.00
7.700	0.3	3.1	61.53 L	0.00	47.33	0.00
7.800	-0.7	-6.8	42.76 L	0.00	32.90	0.00
7.900	-2.1	-20.3	-44.99 R	0.00	-34.60	0.00
8.000	-3.8	-37.3	-51.52 R	0.00	-39.63	0.00
8.000	-3.8	-37.3	-51.52 R	0.00	-39.63	0.00
8.100	-1.8	-17.6	-34.99 L	0.00	-26.91	0.00
8.200	-0.2	-1.4	40.21 R	0.00	30.93	0.00
8.300	1.1	11.3	63.71 R	0.00	49.01	0.00
8.400	2.0	20.5	79.32 R	0.00	61.01	0.00
8.500	2.6	26.1	84.95 R	0.00	65.35	0.00
8.600	2.8	27.9	89.41 L	0.00	68.77	0.00
8.700	2.6	26.2	85.62 L	0.00	65.86	0.00
8.800	2.1	21.0	70.29 L	0.00	54.07	0.00
8.900	1.2	12.3	42.08 L	0.00	32.37	0.00
9.000	0.0	0.0	0.00 R	0.00	0.00	0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

2F1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
1 7	1.100	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.
5 3	1.200	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
3 3	1.300	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
1 0	1.400	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
1 3	1.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
6 1	1.600	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
0 1	1.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1 3	1.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
6 6	1.900	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
3 1	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3 1	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
0 3	2.100	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
1 0	2.200	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
1 3	2.300	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
3 4	2.400	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
7 1	2.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
3 4	2.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
7 1	2.700	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
	2.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
	2.900	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.

6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
9	3.100	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
3	3.200	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
8	3.300	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
5	3.400	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
3	3.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
9	3.600	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
6	3.700	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
5	3.800	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
5	3.900	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

2F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
4.100	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.
4.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
4.300	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
4.400	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
4.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
4.600	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
4.700	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
4.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4.900	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
5.100	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
5.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
5.300	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
5.400	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
5.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
5.600	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
5.700	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
5.900	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.

6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
5	6.100	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
5	6.200	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
9	6.400	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
3	6.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
5	6.600	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
8	6.700	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
3	6.800	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
9	6.900	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

2F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
1	7.100	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.
7	7.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4	7.300	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
3	7.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
3	7.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
1	7.600	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
0	7.700	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	7.800	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
3	7.900	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
6	8.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	8.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	8.100	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
1	8.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
0	8.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	8.400	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
3	8.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
3	8.600	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
5	8.700	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
7	8.800	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
1	8.900	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	+bend	-bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	6.82	72.57	6.06	80.80	0.00	91.0
1.200	3.95	37.52	3.49	41.64	0.00	52.4
1.300	3.17	25.51	2.80	28.25	0.00	42.0
1.400	3.02	19.25	2.66	21.31	0.00	39.9
1.500	3.20	15.30	2.83	16.94	0.00	42.4
1.600	3.51	12.48	3.10	13.85	0.00	46.6
1.700	4.52	10.33	4.02	11.50	0.00	60.3
1.800	7.52	8.59	6.72	9.62	0.00	100.8
1.900	28.40	7.12	25.56	8.04	0.00	106.9
2.000	32.80	4.42	29.73	5.04	0.00	66.3
2.000	32.80	4.42	29.73	5.04	0.00	66.3
2.100	19.75	5.47	17.79	6.19	0.00	82.1
2.200	7.21	6.79	6.46	7.62	0.00	96.9
2.300	4.83	8.52	4.31	9.52	0.00	64.7
2.400	4.07	10.99	3.62	12.25	0.00	54.3
2.500	3.99	14.97	3.54	16.67	0.00	53.1
2.600	4.08	13.50	3.62	15.04	0.00	54.4
2.700	4.88	10.61	4.35	11.84	0.00	65.3
2.800	7.43	8.57	6.64	9.59	0.00	99.6
2.900	22.22	7.00	19.95	7.87	0.00	105.0
3.000	23.95	5.60	21.64	6.36	0.00	84.1
3.000	23.95	5.60	21.64	6.36	0.00	84.1
3.100	21.60	6.88	19.40	7.74	0.00	103.2
3.200	7.36	8.48	6.57	9.48	0.00	98.6
3.300	4.86	10.57	4.32	11.78	0.00	64.8
3.400	4.07	13.56	3.61	15.09	0.00	54.1
3.500	3.98	18.37	3.53	20.42	0.00	53.0
3.600	4.08	13.75	3.62	15.29	0.00	54.3
3.700	4.89	10.70	4.35	11.93	0.00	65.3
3.800	7.43	8.56	6.64	9.58	0.00	99.6
3.900	22.01	6.93	19.78	7.81	0.00	104.0
4.000	29.25	5.62	26.45	6.38	0.00	84.3



## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	+bend	-bend		
4.000	29.25	5.62	26.45	6.38	0.00	84.3
4.100	21.98	6.92	19.76	7.79	0.00	103.8
4.200	7.43	8.53	6.65	9.56	0.00	99.7
4.300	4.90	10.66	4.36	11.89	0.00	65.4
4.400	4.09	13.70	3.63	15.25	0.00	54.5
4.500	4.00	18.59	3.55	20.67	0.00	53.2
4.600	4.09	13.72	3.63	15.27	0.00	54.5
4.700	4.89	10.69	4.36	11.92	0.00	65.3
4.800	7.42	8.56	6.64	9.59	0.00	99.5
4.900	21.94	6.95	19.72	7.82	0.00	104.2
5.000	29.61	5.65	26.76	6.41	0.00	84.7
5.000	29.61	5.65	26.76	6.41	0.00	84.7
5.100	21.94	6.95	19.72	7.82	0.00	104.2
5.200	7.42	8.56	6.64	9.59	0.00	99.5
5.300	4.89	10.69	4.36	11.92	0.00	65.3
5.400	4.09	13.72	3.63	15.27	0.00	54.5
5.500	4.00	18.59	3.55	20.67	0.00	53.2
5.600	4.09	13.70	3.63	15.25	0.00	54.5
5.700	4.90	10.66	4.36	11.89	0.00	65.4
5.800	7.43	8.53	6.65	9.56	0.00	99.7
5.900	21.98	6.92	19.76	7.79	0.00	103.8
6.000	29.25	5.62	26.45	6.38	0.00	84.3
6.000	29.25	5.62	26.45	6.38	0.00	84.3
6.100	22.01	6.93	19.78	7.81	0.00	104.0
6.200	7.43	8.56	6.64	9.58	0.00	99.6
6.300	4.89	10.70	4.35	11.93	0.00	65.3
6.400	4.08	13.75	3.62	15.29	0.00	54.3
6.500	3.98	18.37	3.53	20.42	0.00	53.0
6.600	4.07	13.56	3.61	15.09	0.00	54.1
6.700	4.86	10.57	4.32	11.78	0.00	64.8
6.800	7.36	8.48	6.57	9.48	0.00	98.6
6.900	21.60	6.88	19.40	7.74	0.00	103.2
7.000	23.95	5.60	21.64	6.36	0.00	84.1

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
7.000	23.95	5.60	21.64	6.36	0.00	84.1
7.100	22.22	7.00	19.95	7.87	0.00	105.0
7.200	7.43	8.57	6.64	9.59	0.00	99.6
7.300	4.88	10.61	4.35	11.84	0.00	65.3
7.400	4.08	13.50	3.62	15.04	0.00	54.4
7.500	3.99	14.97	3.54	16.67	0.00	53.1
7.600	4.07	10.99	3.62	12.25	0.00	54.3
7.700	4.83	8.52	4.31	9.52	0.00	64.7
7.800	7.21	6.79	6.46	7.62	0.00	96.9
7.900	19.75	5.47	17.79	6.19	0.00	82.1
8.000	32.80	4.42	29.73	5.04	0.00	66.3
8.000	32.80	4.42	29.73	5.04	0.00	66.3
8.100	28.40	7.12	25.56	8.04	0.00	106.9
8.200	7.52	8.59	6.72	9.62	0.00	100.8
8.300	4.52	10.33	4.02	11.50	0.00	60.3
8.400	3.51	12.48	3.10	13.85	0.00	46.6
8.500	3.20	15.30	2.83	16.94	0.00	42.4
8.600	3.02	19.25	2.66	21.31	0.00	39.9
8.700	3.17	25.51	2.80	28.25	0.00	42.0
8.800	3.95	37.52	3.49	41.64	0.00	52.4
8.900	6.82	72.57	6.06	80.80	0.00	91.0
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	5.9	20.59	0.00	15.84	0.00
1.100	0.4	4.4	17.59	0.00	13.53	0.00
1.200	0.3	2.9	14.70	0.00	11.30	0.00
1.300	0.1	1.5	11.93	0.00	9.18	0.00
1.400	0.0	-0.1	9.35	0.00	7.19	0.00
1.500	-0.2	-1.5	-10.79	0.00	-8.30	0.00
1.600	-0.3	-3.1	-13.51	0.00	-10.40	0.00
1.700	-0.5	-4.6	-16.06	0.00	-12.35	0.00
1.800	-0.6	-6.0	-18.38	0.00	-14.14	0.00
1.900	-0.8	-7.5	-20.44	0.00	-15.72	0.00
2.000	-0.9	-9.0	-22.19	0.00	-17.07	0.00
2.000	0.8	-9.0	21.18	0.00	16.29	0.00
2.100	0.6	6.4	19.16	0.00	14.73	0.00
2.200	0.5	4.9	16.65	0.00	12.81	0.00
2.300	0.3	3.4	13.99	0.00	10.76	0.00
2.400	0.2	2.0	11.29	0.00	8.68	0.00
2.500	0.0	0.5	-8.91	0.00	-6.86	0.00
2.600	-0.1	-1.1	-11.59	0.00	-8.91	0.00
2.700	-0.3	-2.6	-14.29	0.00	-10.99	0.00
2.800	-0.4	-4.1	-16.92	0.00	-13.01	0.00
2.900	-0.6	-5.5	-19.36	0.00	-14.89	0.00
3.000	-0.7	-7.0	-21.52	0.00	-16.55	0.00
3.000	0.7	7.3	21.46	0.00	16.51	0.00
3.100	0.6	5.8	19.27	0.00	14.82	0.00
3.200	0.4	4.4	16.79	0.00	12.92	0.00
3.300	0.3	2.9	14.14	0.00	10.88	0.00
3.400	0.1	1.4	11.43	0.00	8.79	0.00
3.500	0.0	-0.1	-8.78	0.00	-6.75	0.00
3.600	-0.2	-1.6	-11.45	0.00	-8.81	0.00
3.700	-0.3	-3.1	-14.16	0.00	-10.89	0.00
3.800	-0.5	-4.6	-16.81	0.00	-12.93	0.00
3.900	-0.6	-6.1	-19.28	0.00	-14.83	0.00
4.000	-0.8	-7.5	-21.47	0.00	-16.52	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-7.5	21.47	0.00	16.51	0.00
4.100	0.6	6.0	19.28	0.00	14.83	0.00
4.200	0.5	4.5	16.80	0.00	12.92	0.00
4.300	0.3	3.0	14.15	0.00	10.89	0.00
4.400	0.2	1.6	11.44	0.00	8.80	0.00
4.500	0.0	0.1	8.77	0.00	6.74	0.00
4.600	-0.1	-1.5	-11.44	0.00	-8.80	0.00
4.700	-0.3	-3.0	-14.15	0.00	-10.89	0.00
4.800	-0.4	-4.4	-16.80	0.00	-12.93	0.00
4.900	-0.6	-5.9	-19.28	0.00	-14.83	0.00
5.000	-0.7	-7.4	-21.47	0.00	-16.51	0.00
5.000	0.7	7.4	21.47	0.00	16.51	0.00
5.100	0.6	5.9	19.28	0.00	14.83	0.00
5.200	0.4	4.4	16.80	0.00	12.93	0.00
5.300	0.3	3.0	14.15	0.00	10.89	0.00
5.400	0.1	1.5	11.44	0.00	8.80	0.00
5.500	0.0	0.1	8.77	0.00	6.74	0.00
5.600	-0.2	-1.6	-11.44	0.00	-8.80	0.00
5.700	-0.3	-3.0	-14.15	0.00	-10.89	0.00
5.800	-0.5	-4.5	-16.80	0.00	-12.92	0.00
5.900	-0.6	-6.0	-19.28	0.00	-14.83	0.00
6.000	-0.7	-7.5	-21.47	0.00	-16.51	0.00
6.000	0.8	7.5	21.47	0.00	16.52	0.00
6.100	0.6	6.1	19.28	0.00	14.83	0.00
6.200	0.5	4.6	16.81	0.00	12.93	0.00
6.300	0.3	3.1	14.16	0.00	10.89	0.00
6.400	0.2	1.6	11.45	0.00	8.81	0.00
6.500	0.0	0.2	8.78	0.00	6.75	0.00
6.600	-0.1	-1.4	-11.43	0.00	-8.79	0.00
6.700	-0.3	-2.9	-14.14	0.00	-10.88	0.00
6.800	-0.4	-4.4	-16.79	0.00	-12.92	0.00
6.900	-0.6	-5.8	-19.27	0.00	-14.82	0.00
7.000	-0.7	-7.3	-21.46	0.00	-16.51	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-7.3	21.52	0.00	16.55	0.00
7.100	0.6	5.5	19.36	0.00	14.89	0.00
7.200	0.4	4.1	16.92	0.00	13.01	0.00
7.300	0.3	2.6	14.29	0.00	10.99	0.00
7.400	0.1	1.1	11.59	0.00	8.91	0.00
7.500	0.0	-0.4	8.91	0.00	6.86	0.00
7.600	-0.2	-2.0	-11.29	0.00	-8.68	0.00
7.700	-0.3	-3.4	-13.99	0.00	-10.76	0.00
7.800	-0.5	-4.9	-16.65	0.00	-12.81	0.00
7.900	-0.6	-6.4	-19.16	0.00	-14.73	0.00
8.000	-0.8	-7.8	-21.40	0.00	-16.46	0.00
8.000	0.9	9.0	22.19	0.00	17.07	0.00
8.100	0.8	7.5	20.44	0.00	15.72	0.00
8.200	0.6	6.0	18.38	0.00	14.14	0.00
8.300	0.5	4.6	16.06	0.00	12.35	0.00
8.400	0.3	3.1	13.51	0.00	10.40	0.00
8.500	0.2	1.6	10.79	0.00	8.30	0.00
8.600	0.0	0.1	-9.35	0.00	-7.19	0.00
8.700	-0.1	-1.5	-11.93	0.00	-9.18	0.00
8.800	-0.3	-2.9	-14.70	0.00	-11.30	0.00
8.900	-0.4	-4.4	-17.59	0.00	-13.53	0.00
9.000	-0.6	-5.9	-20.59	0.00	-15.84	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-122.8	109.9
1.100	151.3	-121.2	111.5
1.200	151.3	-119.6	113.2
1.300	151.3	-118.0	114.8
1.400	151.3	-116.3	116.4
1.500	151.3	-114.7	118.0
1.600	151.3	-113.0	119.8
1.700	151.3	-111.3	121.4
1.800	151.3	-109.7	123.0
1.900	151.3	-108.1	124.6
2.000	151.3	-106.5	126.3
2.000	151.3	-106.5	107.7
2.100	151.3	-123.4	109.4
2.200	151.3	-121.8	111.0
2.300	151.3	-120.1	112.6
2.400	151.3	-118.5	114.2
2.500	151.3	-116.9	115.8
2.600	151.3	-115.1	117.6
2.700	151.3	-113.5	119.2
2.800	151.3	-111.9	120.8
2.900	151.3	-110.3	122.5
3.000	151.3	-108.7	117.1
3.000	151.3	-108.7	108.3
3.100	151.3	-122.8	110.0
3.200	151.3	-121.2	111.6
3.300	151.3	-119.6	113.2
3.400	151.3	-117.9	114.8
3.500	151.3	-116.3	116.4
3.600	151.3	-114.6	118.2
3.700	151.3	-112.9	119.8
3.800	151.3	-111.3	121.4
3.900	151.3	-109.7	123.0
4.000	151.3	-108.1	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-108.1	108.2
4.100	151.3	-123.0	109.8
4.200	151.3	-121.3	111.4
4.300	151.3	-119.7	113.0
4.400	151.3	-118.1	114.6
4.500	151.3	-116.5	116.3
4.600	151.3	-114.7	118.0
4.700	151.3	-113.1	119.6
4.800	151.3	-111.5	121.3
4.900	151.3	-109.9	122.9
5.000	151.3	-108.2	117.1
5.000	151.3	-108.2	108.2
5.100	151.3	-122.9	109.9
5.200	151.3	-121.3	111.5
5.300	151.3	-119.6	113.1
5.400	151.3	-118.0	114.7
5.500	151.3	-116.4	116.3
5.600	151.3	-114.6	118.1
5.700	151.3	-113.0	119.7
5.800	151.3	-111.4	121.3
5.900	151.3	-109.8	123.0
6.000	151.3	-108.2	117.1
6.000	151.3	-108.2	108.1
6.100	151.3	-123.0	109.7
6.200	151.3	-121.4	111.3
6.300	151.3	-119.8	112.9
6.400	151.3	-118.2	114.6
6.500	151.3	-116.6	116.2
6.600	151.3	-114.8	117.9
6.700	151.3	-113.2	119.6
6.800	151.3	-111.6	121.2
6.900	151.3	-110.0	122.8
7.000	151.3	-108.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-108.3	108.7
7.100	151.3	-122.5	110.3
7.200	151.3	-120.8	111.9
7.300	151.3	-119.2	113.5
7.400	151.3	-117.6	115.1
7.500	151.3	-116.0	116.8
7.600	151.3	-114.2	118.5
7.700	151.3	-112.6	120.1
7.800	151.3	-111.0	121.8
7.900	151.3	-109.4	123.4
8.000	151.3	-107.7	117.2
8.000	151.3	-107.7	106.5
8.100	151.3	-124.6	108.1
8.200	151.3	-123.0	109.7
8.300	151.3	-121.4	111.3
8.400	151.3	-119.8	113.0
8.500	151.3	-118.1	114.6
8.600	151.3	-116.4	116.3
8.700	151.3	-114.8	118.0
8.800	151.3	-113.2	119.6
8.900	151.3	-111.5	121.2
9.000	151.3	-109.9	117.0



## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	75.56	5.34	0.00	80.1
1.100	57.93	6.34	0.00	95.1
1.200	28.76	7.70	0.00	115.5
1.300	19.12	9.62	0.00	144.3
1.400	14.36	12.45	0.00	186.8
1.500	10.64	16.92	0.00	159.6
1.600	8.36	24.67	0.00	125.4
1.700	6.93	40.17	0.00	104.0
1.800	5.97	82.67	0.00	89.5
1.900	5.29	286.15	0.00	79.3
2.000	4.80	289.87	0.00	72.0
2.000	4.80	5.09	0.00	72.0
2.100	56.65	5.71	0.00	85.6
2.200	55.91	6.66	0.00	100.0
2.300	29.77	8.05	0.00	120.7
2.400	18.62	10.12	0.00	151.8
2.500	13.12	13.41	0.00	196.8
2.600	9.94	19.14	0.00	149.1
2.700	7.94	30.59	0.00	119.2
2.800	6.62	44.24	0.00	99.2
2.900	5.70	44.83	0.00	85.5
3.000	5.05	42.86	0.00	75.8
3.000	5.05	5.05	0.00	75.7
3.100	55.38	5.71	0.00	85.6
3.200	54.65	6.64	0.00	99.7
3.300	30.11	8.00	0.00	120.1
3.400	18.86	10.05	0.00	150.7
3.500	13.25	13.30	0.00	198.8
3.600	10.01	18.95	0.00	150.1
3.700	7.97	30.25	0.00	119.6
3.800	6.62	53.79	0.00	99.3
3.900	5.69	54.51	0.00	85.3
4.000	5.03	51.89	0.00	75.5

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	5.03	5.04	0.00	75.5
4.100	55.38	5.70	0.00	85.4
4.200	54.65	6.63	0.00	99.5
4.300	30.19	7.99	0.00	119.8
4.400	18.91	10.02	0.00	150.3
4.500	13.29	13.26	0.00	198.9
4.600	10.03	18.90	0.00	150.4
4.700	7.99	30.18	0.00	119.9
4.800	6.64	54.54	0.00	99.5
4.900	5.70	55.27	0.00	85.5
5.000	5.04	52.68	0.00	75.6
5.000	5.04	5.04	0.00	75.6
5.100	55.27	5.70	0.00	85.5
5.200	54.54	6.64	0.00	99.5
5.300	30.18	7.99	0.00	119.9
5.400	18.90	10.03	0.00	150.4
5.500	13.28	13.27	0.00	199.1
5.600	10.02	18.91	0.00	150.3
5.700	7.99	30.19	0.00	119.8
5.800	6.63	54.65	0.00	99.5
5.900	5.70	55.38	0.00	85.4
6.000	5.04	52.75	0.00	75.6
6.000	5.04	5.03	0.00	75.5
6.100	54.51	5.69	0.00	85.3
6.200	53.79	6.62	0.00	99.3
6.300	30.25	7.97	0.00	119.6
6.400	18.95	10.01	0.00	150.1
6.500	13.31	13.24	0.00	198.6
6.600	10.05	18.86	0.00	150.7
6.700	8.00	30.11	0.00	120.1
6.800	6.64	54.65	0.00	99.7
6.900	5.71	55.38	0.00	85.6
7.000	5.05	52.81	0.00	75.7

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	5.05	5.05	0.00	75.7
7.100	44.83	5.70	0.00	85.5
7.200	44.24	6.62	0.00	99.2
7.300	30.59	7.94	0.00	119.2
7.400	19.14	9.94	0.00	149.1
7.500	13.43	13.10	0.00	196.5
7.600	10.12	18.62	0.00	151.8
7.700	8.05	29.77	0.00	120.7
7.800	6.66	55.91	0.00	100.0
7.900	5.71	56.65	0.00	85.6
8.000	5.03	53.80	0.00	75.5
8.000	5.03	4.80	0.00	72.0
8.100	286.15	5.29	0.00	79.3
8.200	82.67	5.97	0.00	89.5
8.300	40.17	6.93	0.00	104.0
8.400	24.67	8.36	0.00	125.4
8.500	16.94	10.63	0.00	159.4
8.600	12.45	14.36	0.00	186.8
8.700	9.62	19.12	0.00	144.3
8.800	7.70	28.76	0.00	115.5
8.900	6.34	57.93	0.00	95.1
9.000	5.34	999.00	0.00	80.1



3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.100 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
3.400 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
3.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
3.600 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
3.700 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
3.800 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
3.900 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

2F1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
4.100 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
4.200 77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
4.300 87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
4.400 93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
4.500 96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
4.600 94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
4.700 88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
4.800 78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
4.900 64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
5.000 47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
5.000 47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
5.100 64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
5.200 78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
5.300 88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
5.400 94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
5.500 96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
5.600 93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
5.700 87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
5.800 77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
5.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2

6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.100 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
6.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
6.300 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
6.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
6.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
6.600 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
6.700 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
6.800 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
6.900 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
7.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2





9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	6.32	75.34	6.32	75.34	0.00	94.8
1.200	3.65	38.90	3.65	38.90	0.00	54.7
1.300	2.93	26.43	2.93	26.43	0.00	43.9
1.400	2.78	19.94	2.78	19.94	0.00	41.7
1.500	2.95	15.85	2.95	15.85	0.00	44.3
1.600	3.24	12.94	3.24	12.94	0.00	48.6
1.700	4.19	10.72	4.19	10.72	0.00	62.9
1.800	6.99	8.93	6.99	8.93	0.00	104.8
1.900	26.51	7.43	26.51	7.43	0.00	111.5
2.000	30.76	4.63	30.76	4.63	0.00	69.4
2.000	30.76	4.63	30.76	4.63	0.00	69.4
2.100	18.45	5.71	18.45	5.71	0.00	85.7
2.200	6.71	7.07	6.71	7.07	0.00	100.7
2.300	4.49	8.86	4.49	8.86	0.00	67.3
2.400	3.77	11.42	3.77	11.42	0.00	56.5
2.500	3.69	15.54	3.69	15.54	0.00	55.4
2.600	3.78	14.02	3.78	14.02	0.00	56.7
2.700	4.53	11.03	4.53	11.03	0.00	67.9
2.800	6.90	8.91	6.90	8.91	0.00	103.6
2.900	20.71	7.29	20.71	7.29	0.00	109.4
3.000	22.42	5.86	22.42	5.86	0.00	87.9
3.000	22.42	5.86	22.42	5.86	0.00	87.9
3.100	20.14	7.17	20.14	7.17	0.00	107.6
3.200	6.83	8.81	6.83	8.81	0.00	102.5
3.300	4.50	10.98	4.50	10.98	0.00	67.5
3.400	3.76	14.07	3.76	14.07	0.00	56.4
3.500	3.68	19.06	3.68	19.06	0.00	55.2
3.600	3.77	14.27	3.77	14.27	0.00	56.6
3.700	4.53	11.11	4.53	11.11	0.00	68.0
3.800	6.91	8.90	6.91	8.90	0.00	103.6
3.900	20.53	7.23	20.53	7.23	0.00	108.4
4.000	27.39	5.88	27.39	5.88	0.00	88.1

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	27.39	5.88	27.39	5.88	0.00	88.1
4.100	20.50	7.21	20.50	7.21	0.00	108.2
4.200	6.91	8.88	6.91	8.88	0.00	103.7
4.300	4.54	11.08	4.54	11.08	0.00	68.1
4.400	3.79	14.22	3.79	14.22	0.00	56.8
4.500	3.70	19.29	3.70	19.29	0.00	55.5
4.600	3.78	14.24	3.78	14.24	0.00	56.8
4.700	4.53	11.10	4.53	11.10	0.00	68.0
4.800	6.90	8.91	6.90	8.91	0.00	103.5
4.900	20.46	7.24	20.46	7.24	0.00	108.6
5.000	27.72	5.91	27.72	5.91	0.00	88.6
5.000	27.72	5.91	27.72	5.91	0.00	88.6
5.100	20.46	7.24	20.46	7.24	0.00	108.6
5.200	6.90	8.91	6.90	8.91	0.00	103.5
5.300	4.53	11.10	4.53	11.10	0.00	68.0
5.400	3.78	14.24	3.78	14.24	0.00	56.8
5.500	3.70	19.29	3.70	19.29	0.00	55.5
5.600	3.79	14.22	3.79	14.22	0.00	56.8
5.700	4.54	11.08	4.54	11.08	0.00	68.1
5.800	6.91	8.88	6.91	8.88	0.00	103.7
5.900	20.50	7.21	20.50	7.21	0.00	108.2
6.000	27.39	5.88	27.39	5.88	0.00	88.1
6.000	27.39	5.88	27.39	5.88	0.00	88.1
6.100	20.53	7.23	20.53	7.23	0.00	108.4
6.200	6.91	8.90	6.91	8.90	0.00	103.6
6.300	4.53	11.11	4.53	11.11	0.00	68.0
6.400	3.77	14.27	3.77	14.27	0.00	56.6
6.500	3.68	19.06	3.68	19.06	0.00	55.2
6.600	3.76	14.07	3.76	14.07	0.00	56.4
6.700	4.50	10.98	4.50	10.98	0.00	67.5
6.800	6.83	8.81	6.83	8.81	0.00	102.5
6.900	20.14	7.17	20.14	7.17	0.00	107.6
7.000	22.42	5.86	22.42	5.86	0.00	87.9

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	22.42	5.86	22.42	5.86	0.00	87.9
7.100	20.71	7.29	20.71	7.29	0.00	109.4
7.200	6.90	8.91	6.90	8.91	0.00	103.6
7.300	4.53	11.03	4.53	11.03	0.00	67.9
7.400	3.78	14.02	3.78	14.02	0.00	56.7
7.500	3.69	15.54	3.69	15.54	0.00	55.4
7.600	3.77	11.42	3.77	11.42	0.00	56.5
7.700	4.49	8.86	4.49	8.86	0.00	67.3
7.800	6.71	7.07	6.71	7.07	0.00	100.7
7.900	18.45	5.71	18.45	5.71	0.00	85.7
8.000	30.76	4.63	30.76	4.63	0.00	69.4
8.000	30.76	4.63	30.76	4.63	0.00	69.4
8.100	26.51	7.43	26.51	7.43	0.00	111.5
8.200	6.99	8.93	6.99	8.93	0.00	104.8
8.300	4.19	10.72	4.19	10.72	0.00	62.9
8.400	3.24	12.94	3.24	12.94	0.00	48.6
8.500	2.95	15.85	2.95	15.85	0.00	44.3
8.600	2.78	19.94	2.78	19.94	0.00	41.7
8.700	2.93	26.43	2.93	26.43	0.00	43.9
8.800	3.65	38.90	3.65	38.90	0.00	54.7
8.900	6.32	75.34	6.32	75.34	0.00	94.8
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	12.3	56.95 R	0.00	43.80	0.00
1.200	2.1	21.0	93.58 R	0.00	71.99	0.00
1.300	2.6	26.2	111.73 R	0.00	85.95	0.00
1.400	2.8	27.9	118.12 R	0.00	90.86	0.00
1.500	2.6	26.1	115.12 R	0.00	88.55	0.00
1.600	2.0	20.5	100.67 L	0.00	77.44	0.00
1.700	1.1	11.3	81.13 L	0.00	62.41	0.00
1.800	-0.2	-1.4	48.36 L	0.00	37.20	0.00
1.900	-1.8	-17.6	-50.20 R	0.00	-38.61	0.00
2.000	-3.8	-37.3	-76.75 R	0.00	-59.04	0.00
2.000	-3.8	-37.3	-76.75 R	0.00	-59.04	0.00
2.100	-2.1	-20.3	-64.36 L	0.00	-49.51	0.00
2.200	-0.7	-6.8	-55.01 L	0.00	-42.32	0.00
2.300	0.3	3.1	77.76 R	0.00	59.81	0.00
2.400	0.9	9.5	90.64 R	0.00	69.72	0.00
2.500	1.2	12.5	95.59 R	0.00	73.53	0.00
2.600	1.1	11.5	89.38 L	0.00	68.76	0.00
2.700	0.7	7.1	75.56 L	0.00	58.12	0.00
2.800	-0.1	-0.8	49.01 L	0.00	37.70	0.00
2.900	-1.3	-12.3	-52.30 R	0.00	-40.23	0.00
3.000	-2.8	-27.3	-68.95 R	0.00	-53.04	0.00
3.000	-2.8	-27.3	-68.95 R	0.00	-53.04	0.00
3.100	-1.2	-11.6	-53.32 L	0.00	-41.02	0.00
3.200	0.0	0.6	49.29 R	0.00	37.91	0.00
3.300	0.9	9.3	75.32 R	0.00	57.94	0.00
3.400	1.4	14.5	88.66 R	0.00	68.20	0.00
3.500	1.6	16.1	94.19 R	0.00	72.45	0.00
3.600	1.4	13.9	88.57 L	0.00	68.13	0.00
3.700	0.8	8.2	75.16 L	0.00	57.82	0.00
3.800	-0.1	-1.0	49.05 L	0.00	37.73	0.00
3.900	-1.4	-13.8	-52.46 R	0.00	-40.35	0.00
4.000	-3.0	-30.0	-68.42 R	0.00	-52.63	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-30.0	-68.42 R 0.00	-52.63 0.00
4.100	-1.4	-13.9	-52.53 L 0.00	-40.41 0.00
4.200	-0.2	-1.4	49.07 R 0.00	37.75 0.00
4.300	0.7	7.7	75.15 R 0.00	57.80 0.00
4.400	1.3	13.2	88.52 R 0.00	68.09 0.00
4.500	1.5	15.2	94.09 R 0.00	72.37 0.00
4.600	1.3	13.4	88.52 L 0.00	68.09 0.00
4.700	0.8	8.0	75.13 L 0.00	57.80 0.00
4.800	-0.1	-0.8	49.06 L 0.00	37.74 0.00
4.900	-1.3	-13.2	-52.47 R 0.00	-40.36 0.00
5.000	-2.9	-29.1	-68.38 R 0.00	-52.60 0.00
5.000	-2.9	-29.1	-68.38 R 0.00	-52.60 0.00
5.100	-1.3	-13.2	-52.47 L 0.00	-40.36 0.00
5.200	-0.1	-0.8	49.06 R 0.00	37.74 0.00
5.300	0.8	8.0	75.13 R 0.00	57.80 0.00
5.400	1.3	13.4	88.52 R 0.00	68.09 0.00
5.500	1.5	15.2	94.09 L 0.00	72.37 0.00
5.600	1.3	13.2	88.52 L 0.00	68.09 0.00
5.700	0.7	7.7	75.15 L 0.00	57.80 0.00
5.800	-0.2	-1.4	49.07 L 0.00	37.75 0.00
5.900	-1.4	-13.9	-52.53 R 0.00	-40.41 0.00
6.000	-3.0	-30.0	-68.37 R 0.00	-52.59 0.00
6.000	-3.0	-30.0	-68.37 R 0.00	-52.59 0.00
6.100	-1.4	-13.8	-52.46 L 0.00	-40.35 0.00
6.200	-0.1	-1.0	49.05 R 0.00	37.73 0.00
6.300	0.8	8.2	75.16 R 0.00	57.82 0.00
6.400	1.4	13.9	88.57 R 0.00	68.13 0.00
6.500	1.6	16.1	94.19 L 0.00	72.45 0.00
6.600	1.4	14.5	88.66 L 0.00	68.20 0.00
6.700	0.9	9.3	75.32 L 0.00	57.94 0.00
6.800	0.0	0.6	49.29 L 0.00	37.91 0.00
6.900	-1.2	-11.6	-53.32 R 0.00	-41.02 0.00
7.000	-2.8	-27.3	-68.88 L 0.00	-52.98 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
7.000	-2.8	-27.3	-68.88	L	0.00	0.00
7.100	-1.3	-12.3	-52.31	L	0.00	0.00
7.200	-0.1	-0.8	49.01	R	0.00	0.00
7.300	0.7	7.1	75.56	R	0.00	0.00
7.400	1.1	11.5	89.38	R	0.00	0.00
7.500	1.2	12.5	95.59	L	0.00	0.00
7.600	0.9	9.5	90.64	L	0.00	0.00
7.700	0.3	3.1	77.76	L	0.00	0.00
7.800	-0.7	-6.8	-55.01	R	0.00	0.00
7.900	-2.1	-20.3	-64.36	R	0.00	0.00
8.000	-3.8	-37.3	-76.75	L	0.00	0.00
8.000	-3.8	-37.3	-76.75	L	0.00	0.00
8.100	-1.8	-17.6	-50.20	L	0.00	0.00
8.200	-0.2	-1.4	48.36	R	0.00	0.00
8.300	1.1	11.3	81.13	R	0.00	0.00
8.400	2.0	20.5	100.67	R	0.00	0.00
8.500	2.6	26.1	115.12	L	0.00	0.00
8.600	2.8	27.9	118.12	L	0.00	0.00
8.700	2.6	26.2	111.73	L	0.00	0.00
8.800	2.1	21.0	93.58	L	0.00	0.00
8.900	1.2	12.3	56.95	L	0.00	0.00
9.000	0.0	0.0	0.00	R	0.00	0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

3F1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive Bending		Negative Bending		Positive Bending		Negative Bending		
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
1	1.100	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.
7	1.200	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
5	1.300	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
3	1.400	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
3	1.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
1	1.600	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
0	1.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	1.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	1.900	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	2.100	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
1	2.200	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
0	2.300	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	2.400	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
3	2.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
3	2.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
4	2.700	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
7	2.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	2.900	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.



6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
9	3.100	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
3	3.200	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
8	3.300	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
5	3.400	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
3	3.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
9	3.600	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
6	3.700	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
5	3.800	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
5	3.900	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

3F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
3	4.100	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.
1	4.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
0	4.300	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
1	4.400	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
3	4.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
3	4.600	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
4	4.700	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
7	4.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	4.900	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
6	5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
6	5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
1	5.100	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
7	5.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4	5.300	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
3	5.400	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
3	5.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
1	5.600	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
0	5.700	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
1	5.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	5.900	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.

6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
5	6.100	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
5	6.200	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
9	6.400	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
3	6.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
5	6.600	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
8	6.700	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
3	6.800	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
9	6.900	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	0.00
1.100	5.04	50.59	4.48	56.32	0.00
1.200	2.97	26.16	2.62	29.02	0.00
1.300	2.43	17.78	2.15	19.69	0.00
1.400	2.29	13.42	2.02	14.85	0.00
1.500	2.36	10.66	2.09	11.81	0.00
1.600	2.76	8.70	2.44	9.66	0.00
1.700	3.55	7.20	3.16	8.02	0.00
1.800	6.25	5.99	5.59	6.70	0.00
1.900	23.79	4.97	21.41	5.60	0.00
2.000	22.86	2.96	20.73	3.38	0.00
2.000	22.86	2.96	20.73	3.38	0.00
2.100	22.78	3.83	20.53	4.32	0.00
2.200	5.90	4.75	5.29	5.33	0.00
2.300	3.82	5.96	3.41	6.66	0.00
2.400	3.20	7.68	2.85	8.56	0.00
2.500	3.00	10.47	2.67	11.65	0.00
2.600	3.22	9.41	2.86	10.48	0.00
2.700	3.88	7.40	3.45	8.26	0.00
2.800	6.15	5.97	5.50	6.68	0.00
2.900	22.42	4.88	20.14	5.49	0.00
3.000	16.75	3.46	15.12	3.92	0.00
3.000	16.75	3.46	15.12	3.92	0.00
3.100	18.17	4.80	16.32	5.40	0.00
3.200	6.09	5.91	5.44	6.61	0.00
3.300	3.86	7.37	3.43	8.22	0.00
3.400	3.21	9.45	2.85	10.52	0.00
3.500	3.01	12.81	2.66	14.24	0.00
3.600	3.22	9.58	2.86	10.66	0.00
3.700	3.88	7.46	3.45	8.31	0.00
3.800	6.15	5.97	5.50	6.68	0.00
3.900	22.47	4.83	20.19	5.44	0.00
4.000	20.39	3.44	18.44	3.91	0.00

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	+bend	-bend		
4.000	20.39	3.44	18.44	3.91	0.00	79.2
4.100	22.12	4.82	19.88	5.43	0.00	110.9
4.200	6.16	5.95	5.51	6.66	0.00	126.6
4.300	3.89	7.43	3.46	8.29	0.00	79.7
4.400	3.23	9.55	2.87	10.63	0.00	66.0
4.500	3.02	12.96	2.68	14.41	0.00	61.6
4.600	3.23	9.57	2.87	10.65	0.00	66.0
4.700	3.88	7.45	3.46	8.31	0.00	79.5
4.800	6.15	5.97	5.50	6.68	0.00	126.4
4.900	22.39	4.84	20.12	5.45	0.00	111.4
5.000	20.64	3.46	18.66	3.93	0.00	79.6
5.000	20.64	3.46	18.66	3.93	0.00	79.6
5.100	22.39	4.84	20.12	5.45	0.00	111.4
5.200	6.15	5.97	5.50	6.68	0.00	126.4
5.300	3.88	7.45	3.46	8.31	0.00	79.5
5.400	3.23	9.57	2.87	10.65	0.00	66.0
5.500	3.02	12.96	2.68	14.41	0.00	61.6
5.600	3.23	9.55	2.87	10.63	0.00	66.0
5.700	3.89	7.43	3.46	8.29	0.00	79.7
5.800	6.16	5.95	5.51	6.66	0.00	126.6
5.900	22.12	4.82	19.88	5.43	0.00	110.9
6.000	20.39	3.45	18.44	3.91	0.00	79.3
6.000	20.39	3.45	18.44	3.91	0.00	79.3
6.100	22.47	4.83	20.19	5.44	0.00	111.1
6.200	6.15	5.97	5.50	6.68	0.00	126.5
6.300	3.88	7.46	3.45	8.31	0.00	79.5
6.400	3.22	9.58	2.86	10.66	0.00	65.8
6.500	3.01	12.81	2.66	14.24	0.00	61.3
6.600	3.21	9.45	2.85	10.52	0.00	65.6
6.700	3.86	7.37	3.43	8.22	0.00	78.9
6.800	6.09	5.91	5.44	6.61	0.00	125.1
6.900	18.17	4.80	16.32	5.40	0.00	110.4
7.000	16.75	3.46	15.12	3.93	0.00	79.7

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	16.75	3.46	15.12	3.93	0.00	79.7
7.100	22.42	4.88	20.14	5.49	0.00	112.2
7.200	6.15	5.97	5.50	6.68	0.00	126.5
7.300	3.88	7.40	3.45	8.26	0.00	79.4
7.400	3.22	9.41	2.86	10.48	0.00	65.9
7.500	3.00	10.47	2.67	11.65	0.00	61.4
7.600	3.20	7.68	2.85	8.56	0.00	65.5
7.700	3.82	5.96	3.41	6.66	0.00	78.5
7.800	5.90	4.75	5.29	5.33	0.00	109.2
7.900	22.78	3.83	20.53	4.32	0.00	88.0
8.000	22.86	2.96	20.73	3.38	0.00	68.2
8.000	22.86	2.96	20.73	3.38	0.00	68.2
8.100	23.79	4.97	21.41	5.60	0.00	114.2
8.200	6.25	5.99	5.59	6.70	0.00	128.5
8.300	3.55	7.20	3.16	8.02	0.00	72.6
8.400	2.76	8.70	2.44	9.66	0.00	56.2
8.500	2.36	10.66	2.09	11.81	0.00	47.9
8.600	2.29	13.42	2.02	14.85	0.00	46.3
8.700	2.43	17.78	2.15	19.69	0.00	49.4
8.800	2.97	26.16	2.62	29.02	0.00	60.4
8.900	5.04	50.59	4.48	56.32	0.00	103.1
9.000	999.00	999.00	999.00	999.00	0.00	999.0



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	5.9	28.25	0.00	21.73	0.00
1.100	0.4	4.4	23.81	0.00	18.32	0.00
1.200	0.3	2.9	19.56	0.00	15.05	0.00
1.300	0.1	1.5	15.57	0.00	11.98	0.00
1.400	0.0	-0.1	11.89	0.00	9.15	0.00
1.500	-0.2	-1.5	-14.22	0.00	-10.94	0.00
1.600	-0.3	-3.1	-17.46	0.00	-13.43	0.00
1.700	-0.5	-4.6	-21.53	0.00	-16.56	0.00
1.800	-0.6	-6.0	-25.31	0.00	-19.47	0.00
1.900	-0.8	-7.5	-28.72	0.00	-22.10	0.00
2.000	-0.9	-9.0	-31.72	0.00	-24.40	0.00
2.000	0.8	-9.0	29.85	0.00	22.96	0.00
2.100	0.6	6.4	26.41	0.00	20.31	0.00
2.200	0.5	4.9	22.50	0.00	17.31	0.00
2.300	0.3	3.4	18.48	0.00	14.21	0.00
2.400	0.2	2.0	14.50	0.00	11.16	0.00
2.500	0.0	0.5	-11.05	0.00	-8.50	0.00
2.600	-0.1	-1.1	-14.90	0.00	-11.46	0.00
2.700	-0.3	-2.6	-18.91	0.00	-14.54	0.00
2.800	-0.4	-4.1	-22.91	0.00	-17.62	0.00
2.900	-0.6	-5.5	-26.76	0.00	-20.58	0.00
3.000	-0.7	-7.0	-30.29	0.00	-23.30	0.00
3.000	0.7	7.3	30.17	0.00	23.21	0.00
3.100	0.6	5.8	26.59	0.00	20.46	0.00
3.200	0.4	4.4	22.71	0.00	17.47	0.00
3.300	0.3	2.9	18.69	0.00	14.37	0.00
3.400	0.1	1.4	14.69	0.00	11.30	0.00
3.500	0.0	-0.1	-10.90	0.00	-8.38	0.00
3.600	-0.2	-1.6	-14.72	0.00	-11.32	0.00
3.700	-0.3	-3.1	-18.72	0.00	-14.40	0.00
3.800	-0.5	-4.6	-22.74	0.00	-17.49	0.00
3.900	-0.6	-6.1	-26.62	0.00	-20.48	0.00
4.000	-0.8	-7.5	-30.19	0.00	-23.22	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-7.5	30.18	0.00	23.21	0.00
4.100	0.6	6.0	26.61	0.00	20.47	0.00
4.200	0.5	4.5	22.73	0.00	17.48	0.00
4.300	0.3	3.0	18.70	0.00	14.39	0.00
4.400	0.2	1.6	14.70	0.00	11.31	0.00
4.500	0.0	0.1	-10.89	0.00	8.37	0.00
4.600	-0.1	-1.5	-14.70	0.00	-11.31	0.00
4.700	-0.3	-3.0	-18.70	0.00	-14.39	0.00
4.800	-0.4	-4.4	-22.73	0.00	-17.48	0.00
4.900	-0.6	-5.9	-26.61	0.00	-20.47	0.00
5.000	-0.7	-7.4	-30.18	0.00	-23.21	0.00
5.000	0.7	7.4	30.18	0.00	23.21	0.00
5.100	0.6	5.9	26.61	0.00	20.47	0.00
5.200	0.4	4.4	22.73	0.00	17.48	0.00
5.300	0.3	3.0	18.70	0.00	14.39	0.00
5.400	0.1	1.5	14.70	0.00	11.31	0.00
5.500	0.0	0.1	10.89	0.00	8.37	0.00
5.600	-0.2	-1.6	-14.70	0.00	-11.31	0.00
5.700	-0.3	-3.0	-18.70	0.00	-14.39	0.00
5.800	-0.5	-4.5	-22.73	0.00	-17.48	0.00
5.900	-0.6	-6.0	-26.61	0.00	-20.47	0.00
6.000	-0.7	-7.5	-30.18	0.00	-23.21	0.00
6.000	0.8	7.5	30.19	0.00	23.22	0.00
6.100	0.6	6.1	26.62	0.00	20.48	0.00
6.200	0.5	4.6	22.74	0.00	17.49	0.00
6.300	0.3	3.1	18.72	0.00	14.40	0.00
6.400	0.2	1.6	14.72	0.00	11.32	0.00
6.500	0.0	0.2	10.90	0.00	8.38	0.00
6.600	-0.1	-1.4	-14.69	0.00	-11.30	0.00
6.700	-0.3	-2.9	-18.69	0.00	-14.37	0.00
6.800	-0.4	-4.4	-22.71	0.00	-17.47	0.00
6.900	-0.6	-5.8	-26.59	0.00	-20.46	0.00
7.000	-0.7	-7.3	-30.17	0.00	-23.21	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-7.3	30.29	0.00	23.30	0.00
7.100	0.6	5.5	26.76	0.00	20.58	0.00
7.200	0.4	4.1	22.91	0.00	17.62	0.00
7.300	0.3	2.6	18.91	0.00	14.54	0.00
7.400	0.1	1.1	14.90	0.00	11.46	0.00
7.500	0.0	-0.4	11.05	0.00	8.50	0.00
7.600	-0.2	-2.0	-14.50	0.00	-11.16	0.00
7.700	-0.3	-3.4	-18.48	0.00	-14.21	0.00
7.800	-0.5	-4.9	-22.50	0.00	-17.31	0.00
7.900	-0.6	-6.4	-26.41	0.00	-20.31	0.00
8.000	-0.8	-7.8	-30.04	0.00	-23.11	0.00
8.000	0.9	9.0	31.72	0.00	24.40	0.00
8.100	0.8	7.5	28.72	0.00	22.10	0.00
8.200	0.6	6.0	25.31	0.00	19.47	0.00
8.300	0.5	4.6	21.53	0.00	16.56	0.00
8.400	0.3	3.1	17.46	0.00	13.43	0.00
8.500	0.2	1.6	14.22	0.00	10.94	0.00
8.600	0.0	0.1	-11.89	0.00	-9.15	0.00
8.700	-0.1	-1.5	-15.57	0.00	-11.98	0.00
8.800	-0.3	-2.9	-19.56	0.00	-15.05	0.00
8.900	-0.4	-4.4	-23.81	0.00	-18.32	0.00
9.000	-0.6	-5.9	-28.25	0.00	-21.73	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-122.8	109.9
1.100	151.3	-121.2	111.5
1.200	151.3	-119.6	113.2
1.300	151.3	-118.0	114.8
1.400	151.3	-116.3	116.4
1.500	151.3	-114.7	118.0
1.600	151.3	-113.0	119.8
1.700	151.3	-111.3	121.4
1.800	151.3	-109.7	123.0
1.900	151.3	-108.1	124.6
2.000	151.3	-106.5	126.3
2.000	151.3	-106.5	107.7
2.100	151.3	-123.4	109.4
2.200	151.3	-121.8	111.0
2.300	151.3	-120.1	112.6
2.400	151.3	-118.5	114.2
2.500	151.3	-116.9	115.8
2.600	151.3	-115.1	117.6
2.700	151.3	-113.5	119.2
2.800	151.3	-111.9	120.8
2.900	151.3	-110.3	122.5
3.000	151.3	-108.7	117.1
3.000	151.3	-108.7	108.3
3.100	151.3	-122.8	110.0
3.200	151.3	-121.2	111.6
3.300	151.3	-119.6	113.2
3.400	151.3	-117.9	114.8
3.500	151.3	-116.3	116.4
3.600	151.3	-114.6	118.2
3.700	151.3	-112.9	119.8
3.800	151.3	-111.3	121.4
3.900	151.3	-109.7	123.0
4.000	151.3	-108.1	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-108.1	108.2
4.100	151.3	-123.0	109.8
4.200	151.3	-121.3	111.4
4.300	151.3	-119.7	113.0
4.400	151.3	-118.1	114.6
4.500	151.3	-116.5	116.3
4.600	151.3	-114.7	118.0
4.700	151.3	-113.1	119.6
4.800	151.3	-111.5	121.3
4.900	151.3	-109.9	122.9
5.000	151.3	-108.2	117.1
5.000	151.3	-108.2	108.2
5.100	151.3	-122.9	109.9
5.200	151.3	-121.3	111.5
5.300	151.3	-119.6	113.1
5.400	151.3	-118.0	114.7
5.500	151.3	-116.4	116.3
5.600	151.3	-114.6	118.1
5.700	151.3	-113.0	119.7
5.800	151.3	-111.4	121.3
5.900	151.3	-109.8	123.0
6.000	151.3	-108.2	117.1
6.000	151.3	-108.2	108.1
6.100	151.3	-123.0	109.7
6.200	151.3	-121.4	111.3
6.300	151.3	-119.8	112.9
6.400	151.3	-118.2	114.6
6.500	151.3	-116.6	116.2
6.600	151.3	-114.8	117.9
6.700	151.3	-113.2	119.6
6.800	151.3	-111.6	121.2
6.900	151.3	-110.0	122.8
7.000	151.3	-108.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-108.3	108.7
7.100	151.3	-122.5	110.3
7.200	151.3	-120.8	111.9
7.300	151.3	-119.2	113.5
7.400	151.3	-117.6	115.1
7.500	151.3	-116.0	116.8
7.600	151.3	-114.2	118.5
7.700	151.3	-112.6	120.1
7.800	151.3	-111.0	121.8
7.900	151.3	-109.4	123.4
8.000	151.3	-107.7	117.2
8.000	151.3	-107.7	106.5
8.100	151.3	-124.6	108.1
8.200	151.3	-123.0	109.7
8.300	151.3	-121.4	111.3
8.400	151.3	-119.8	113.0
8.500	151.3	-118.1	114.6
8.600	151.3	-116.4	116.3
8.700	151.3	-114.8	118.0
8.800	151.3	-113.2	119.6
8.900	151.3	-111.5	121.2
9.000	151.3	-109.9	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	52.67	3.89	0.00	89.5
1.100	51.97	4.68	0.00	107.7
1.200	29.05	5.78	0.00	133.0
1.300	15.52	7.37	0.00	169.5
1.400	10.59	9.79	0.00	225.1
1.500	8.07	13.74	0.00	185.6
1.600	6.47	21.07	0.00	148.8
1.700	5.17	37.78	0.00	118.9
1.800	4.34	102.65	0.00	99.7
1.900	3.76	199.46	0.00	86.6
2.000	3.36	202.05	0.00	77.2
2.000	3.36	3.61	0.00	77.2
2.100	39.49	4.14	0.00	95.3
2.200	38.97	4.93	0.00	113.5
2.300	28.34	6.09	0.00	140.2
2.400	15.88	7.88	0.00	181.2
2.500	10.58	10.81	0.00	243.3
2.600	7.73	16.24	0.00	177.7
2.700	6.01	28.65	0.00	138.1
2.800	4.88	30.92	0.00	112.3
2.900	4.12	31.34	0.00	94.8
3.000	3.59	29.96	0.00	82.5
3.000	3.59	3.59	0.00	82.5
3.100	38.60	4.14	0.00	95.1
3.200	38.09	4.91	0.00	113.0
3.300	28.23	6.06	0.00	139.3
3.400	16.00	7.82	0.00	179.8
3.500	10.67	10.71	0.00	245.5
3.600	7.78	16.07	0.00	179.0
3.700	6.03	28.33	0.00	138.8
3.800	4.89	37.51	0.00	112.6
3.900	4.12	38.01	0.00	94.8
4.000	3.58	36.18	0.00	82.3

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.58	3.58	0.00	82.3
4.100	38.60	4.13	0.00	94.9
4.200	38.09	4.90	0.00	112.7
4.300	28.28	6.04	0.00	139.0
4.400	16.04	7.80	0.00	179.3
4.500	10.70	10.68	0.00	245.7
4.600	7.80	16.03	0.00	179.4
4.700	6.05	28.26	0.00	139.1
4.800	4.91	38.02	0.00	112.8
4.900	4.13	38.53	0.00	95.0
5.000	3.59	36.72	0.00	82.5
5.000	3.59	3.59	0.00	82.5
5.100	38.53	4.13	0.00	95.0
5.200	38.02	4.91	0.00	112.8
5.300	28.26	6.05	0.00	139.1
5.400	16.03	7.80	0.00	179.4
5.500	10.69	10.69	0.00	245.8
5.600	7.80	16.04	0.00	179.3
5.700	6.04	28.28	0.00	139.0
5.800	4.90	38.09	0.00	112.7
5.900	4.13	38.60	0.00	94.9
6.000	3.58	36.77	0.00	82.4
6.000	3.58	3.58	0.00	82.3
6.100	38.01	4.12	0.00	94.8
6.200	37.51	4.89	0.00	112.6
6.300	28.33	6.03	0.00	138.8
6.400	16.07	7.78	0.00	179.0
6.500	10.72	10.66	0.00	245.2
6.600	7.82	16.00	0.00	179.8
6.700	6.06	28.23	0.00	139.3
6.800	4.91	38.09	0.00	113.0
6.900	4.14	38.60	0.00	95.1
7.000	3.59	36.81	0.00	82.6



## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.59	3.59	0.00	82.5
7.100	31.34	4.12	0.00	94.8
7.200	30.92	4.88	0.00	112.3
7.300	28.65	6.01	0.00	138.1
7.400	16.24	7.73	0.00	177.7
7.500	10.82	10.57	0.00	243.1
7.600	7.88	15.88	0.00	181.2
7.700	6.09	28.34	0.00	140.2
7.800	4.93	38.97	0.00	113.5
7.900	4.14	39.49	0.00	95.3
8.000	3.59	37.50	0.00	82.5
8.000	3.59	3.36	0.00	77.2
8.100	199.46	3.76	0.00	86.6
8.200	102.65	4.34	0.00	99.7
8.300	37.78	5.17	0.00	118.9
8.400	21.07	6.47	0.00	148.8
8.500	13.76	8.06	0.00	185.3
8.600	9.79	10.59	0.00	225.1
8.700	7.37	15.52	0.00	169.5
8.800	5.78	29.05	0.00	133.0
8.900	4.68	51.97	0.00	107.7
9.000	3.89	999.00	0.00	89.5



3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.100 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
3.400 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
3.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
3.600 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
3.700 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
3.800 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
3.900 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

3F1

Span g tt.	Moment Capacity		Available Capacity for LL+I					
	Positive Bending Top	Negative Bending Bott.	Positive Bending Top	Negative Bending Bott.				
46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2

6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.100 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
6.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
6.300 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
6.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
6.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
6.600 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
6.700 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
6.800 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
6.900 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
7.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2



9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.67	52.51	4.67	52.51	0.00	107.4
1.200	2.74	27.12	2.74	27.12	0.00	63.0
1.300	2.24	18.42	2.24	18.42	0.00	51.6
1.400	2.11	13.90	2.11	13.90	0.00	48.4
1.500	2.18	11.05	2.18	11.05	0.00	50.1
1.600	2.55	9.02	2.55	9.02	0.00	58.7
1.700	3.29	7.47	3.29	7.47	0.00	75.7
1.800	5.81	6.23	5.81	6.23	0.00	133.6
1.900	22.21	5.18	22.21	5.18	0.00	119.1
2.000	21.44	3.11	21.44	3.11	0.00	71.4
2.000	21.44	3.11	21.44	3.11	0.00	71.4
2.100	21.29	3.99	21.29	3.99	0.00	91.9
2.200	5.49	4.94	5.49	4.94	0.00	113.7
2.300	3.55	6.19	3.55	6.19	0.00	81.6
2.400	2.97	7.98	2.97	7.98	0.00	68.2
2.500	2.78	10.86	2.78	10.86	0.00	63.9
2.600	2.98	9.77	2.98	9.77	0.00	68.6
2.700	3.59	7.69	3.59	7.69	0.00	82.7
2.800	5.72	6.21	5.72	6.21	0.00	131.6
2.900	20.90	5.08	20.90	5.08	0.00	116.9
3.000	15.67	3.62	15.67	3.62	0.00	83.2
3.000	15.67	3.62	15.67	3.62	0.00	83.2
3.100	16.94	5.00	16.94	5.00	0.00	115.0
3.200	5.66	6.14	5.66	6.14	0.00	130.1
3.300	3.57	7.65	3.57	7.65	0.00	82.2
3.400	2.97	9.81	2.97	9.81	0.00	68.4
3.500	2.78	13.29	2.78	13.29	0.00	63.9
3.600	2.98	9.94	2.98	9.94	0.00	68.6
3.700	3.60	7.74	3.60	7.74	0.00	82.7
3.800	5.72	6.20	5.72	6.20	0.00	131.5
3.900	20.95	5.04	20.95	5.04	0.00	115.9
4.000	19.10	3.60	19.10	3.60	0.00	82.8



## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	19.10	3.60	19.10	3.60	0.00	82.8
4.100	20.63	5.03	20.63	5.03	0.00	115.6
4.200	5.72	6.19	5.72	6.19	0.00	131.7
4.300	3.61	7.72	3.61	7.72	0.00	82.9
4.400	2.99	9.91	2.99	9.91	0.00	68.8
4.500	2.79	13.44	2.79	13.44	0.00	64.2
4.600	2.99	9.93	2.99	9.93	0.00	68.8
4.700	3.60	7.74	3.60	7.74	0.00	82.8
4.800	5.72	6.21	5.72	6.21	0.00	131.4
4.900	20.89	5.05	20.89	5.05	0.00	116.1
5.000	19.32	3.62	19.32	3.62	0.00	83.2
5.000	19.32	3.62	19.32	3.62	0.00	83.2
5.100	20.89	5.05	20.89	5.05	0.00	116.1
5.200	5.72	6.21	5.72	6.21	0.00	131.4
5.300	3.60	7.74	3.60	7.74	0.00	82.8
5.400	2.99	9.93	2.99	9.93	0.00	68.8
5.500	2.79	13.44	2.79	13.44	0.00	64.2
5.600	2.99	9.91	2.99	9.91	0.00	68.8
5.700	3.61	7.72	3.61	7.72	0.00	82.9
5.800	5.72	6.19	5.72	6.19	0.00	131.7
5.900	20.63	5.03	20.63	5.03	0.00	115.6
6.000	19.10	3.60	19.10	3.60	0.00	82.9
6.000	19.10	3.60	19.10	3.60	0.00	82.9
6.100	20.95	5.04	20.95	5.04	0.00	115.9
6.200	5.72	6.20	5.72	6.20	0.00	131.5
6.300	3.60	7.74	3.60	7.74	0.00	82.7
6.400	2.98	9.94	2.98	9.94	0.00	68.6
6.500	2.78	13.29	2.78	13.29	0.00	63.9
6.600	2.97	9.81	2.97	9.81	0.00	68.4
6.700	3.57	7.65	3.57	7.65	0.00	82.2
6.800	5.66	6.14	5.66	6.14	0.00	130.1
6.900	16.94	5.00	16.94	5.00	0.00	115.0
7.000	15.67	3.62	15.67	3.62	0.00	83.3

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	15.67	3.62	15.67	3.62	0.00	83.3
7.100	20.90	5.08	20.90	5.08	0.00	116.9
7.200	5.72	6.21	5.72	6.21	0.00	131.6
7.300	3.59	7.69	3.59	7.69	0.00	82.7
7.400	2.98	9.77	2.98	9.77	0.00	68.6
7.500	2.78	10.86	2.78	10.86	0.00	63.9
7.600	2.97	7.98	2.97	7.98	0.00	68.2
7.700	3.55	6.19	3.55	6.19	0.00	81.6
7.800	5.49	4.94	5.49	4.94	0.00	113.7
7.900	21.29	3.99	21.29	3.99	0.00	91.9
8.000	21.44	3.11	21.44	3.11	0.00	71.4
8.000	21.44	3.11	21.44	3.11	0.00	71.4
8.100	22.21	5.18	22.21	5.18	0.00	119.1
8.200	5.81	6.23	5.81	6.23	0.00	133.6
8.300	3.29	7.47	3.29	7.47	0.00	75.7
8.400	2.55	9.02	2.55	9.02	0.00	58.7
8.500	2.18	11.05	2.18	11.05	0.00	50.1
8.600	2.11	13.90	2.11	13.90	0.00	48.4
8.700	2.24	18.42	2.24	18.42	0.00	51.6
8.800	2.74	27.12	2.74	27.12	0.00	63.0
8.900	4.67	52.51	4.67	52.51	0.00	107.4
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	12.3	57.76 R	0.00	44.43	0.00
1.200	2.1	21.0	93.18 R	0.00	71.68	0.00
1.300	2.6	26.2	115.66 R	0.00	88.97	0.00
1.400	2.8	27.9	126.02 R	0.00	96.94	0.00
1.500	2.6	26.1	122.96 L	0.00	94.59	0.00
1.600	2.0	20.5	107.42 L	0.00	82.63	0.00
1.700	1.1	11.3	82.23 L	0.00	63.25	0.00
1.800	-0.2	-1.4	-48.01 R	0.00	-36.93	0.00
1.900	-1.8	-17.6	-54.01 R	0.00	-41.55	0.00
2.000	-3.8	-37.3	-91.82 R	0.00	-70.63	0.00
2.000	-3.8	-37.3	-91.82 R	0.00	-70.63	0.00
2.100	-2.1	-20.3	-68.98 L	0.00	-53.06	0.00
2.200	-0.7	-6.8	-58.96 L	0.00	-45.36	0.00
2.300	0.3	3.1	79.23 R	0.00	60.95	0.00
2.400	0.9	9.5	96.79 R	0.00	74.46	0.00
2.500	1.2	12.5	99.25 R	0.00	76.34	0.00
2.600	1.1	11.5	95.46 L	0.00	73.43	0.00
2.700	0.7	7.1	76.83 L	0.00	59.10	0.00
2.800	-0.1	-0.8	-48.24 R	0.00	-37.11	0.00
2.900	-1.3	-12.3	-56.28 R	0.00	-43.29	0.00
3.000	-2.8	-27.3	-80.57 R	0.00	-61.98	0.00
3.000	-2.8	-27.3	-80.57 R	0.00	-61.98	0.00
3.100	-1.2	-11.6	-57.36 L	0.00	-44.12	0.00
3.200	0.0	0.6	-49.03 L	0.00	-37.71	0.00
3.300	0.9	9.3	76.61 R	0.00	58.93	0.00
3.400	1.4	14.5	94.70 R	0.00	72.84	0.00
3.500	1.6	16.1	97.83 R	0.00	75.25	0.00
3.600	1.4	13.9	94.60 L	0.00	72.77	0.00
3.700	0.8	8.2	76.44 L	0.00	58.80	0.00
3.800	-0.1	-1.0	-48.26 R	0.00	-37.12	0.00
3.900	-1.4	-13.8	-56.45 R	0.00	-43.42	0.00
4.000	-3.0	-30.0	-79.78 R	0.00	-61.37	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-30.0	-79.78 R 0.00	-61.37 0.00
4.100	-1.4	-13.9	-56.52 L 0.00	-43.48 0.00
4.200	-0.2	-1.4	-48.32 L 0.00	-37.17 0.00
4.300	0.7	7.7	76.43 R 0.00	58.79 0.00
4.400	1.3	13.2	94.55 R 0.00	72.73 0.00
4.500	1.5	15.2	97.73 R 0.00	75.17 0.00
4.600	1.3	13.4	94.54 L 0.00	72.72 0.00
4.700	0.8	8.0	76.41 L 0.00	58.78 0.00
4.800	-0.1	-0.8	-48.26 R 0.00	-37.13 0.00
4.900	-1.3	-13.2	-56.46 R 0.00	-43.43 0.00
5.000	-2.9	-29.1	-79.72 R 0.00	-61.33 0.00
5.000	-2.9	-29.1	-79.72 R 0.00	-61.33 0.00
5.100	-1.3	-13.2	-56.46 L 0.00	-43.43 0.00
5.200	-0.1	-0.8	-48.26 L 0.00	-37.13 0.00
5.300	0.8	8.0	76.42 R 0.00	58.78 0.00
5.400	1.3	13.4	94.54 R 0.00	72.72 0.00
5.500	1.5	15.2	97.73 L 0.00	75.17 0.00
5.600	1.3	13.2	94.55 L 0.00	72.73 0.00
5.700	0.7	7.7	76.43 L 0.00	58.79 0.00
5.800	-0.2	-1.4	-48.32 R 0.00	-37.17 0.00
5.900	-1.4	-13.9	-56.52 R 0.00	-43.48 0.00
6.000	-3.0	-30.0	-79.78 L 0.00	-61.37 0.00
6.000	-3.0	-30.0	-79.78 L 0.00	-61.37 0.00
6.100	-1.4	-13.8	-56.45 L 0.00	-43.42 0.00
6.200	-0.1	-1.0	-48.26 L 0.00	-37.12 0.00
6.300	0.8	8.2	76.44 R 0.00	58.80 0.00
6.400	1.4	13.9	94.60 R 0.00	72.77 0.00
6.500	1.6	16.1	97.83 L 0.00	75.25 0.00
6.600	1.4	14.5	94.70 L 0.00	72.84 0.00
6.700	0.9	9.3	76.61 L 0.00	58.93 0.00
6.800	0.0	0.6	-49.03 R 0.00	-37.71 0.00
6.900	-1.2	-11.6	-57.36 R 0.00	-44.12 0.00
7.000	-2.8	-27.3	-80.57 L 0.00	-61.98 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-27.3	-80.57 L 0.00	-61.98 0.00
7.100	-1.3	-12.3	-56.28 L 0.00	-43.29 0.00
7.200	-0.1	-0.8	-48.24 L 0.00	-37.11 0.00
7.300	0.7	7.1	76.83 R 0.00	59.10 0.00
7.400	1.1	11.5	95.46 R 0.00	73.43 0.00
7.500	1.2	12.5	99.25 L 0.00	76.34 0.00
7.600	0.9	9.5	96.79 L 0.00	74.46 0.00
7.700	0.3	3.1	79.23 L 0.00	60.95 0.00
7.800	-0.7	-6.8	-58.96 R 0.00	-45.36 0.00
7.900	-2.1	-20.3	-68.98 R 0.00	-53.06 0.00
8.000	-3.8	-37.3	-91.60 L 0.00	-70.46 0.00
8.000	-3.8	-37.3	-91.60 L 0.00	-70.46 0.00
8.100	-1.8	-17.6	-54.01 L 0.00	-41.55 0.00
8.200	-0.2	-1.4	-48.01 L 0.00	-36.93 0.00
8.300	1.1	11.3	82.23 R 0.00	63.25 0.00
8.400	2.0	20.5	107.42 R 0.00	82.63 0.00
8.500	2.6	26.1	122.96 R 0.00	94.59 0.00
8.600	2.8	27.9	126.02 L 0.00	96.94 0.00
8.700	2.6	26.2	115.66 L 0.00	88.97 0.00
8.800	2.1	21.0	93.18 L 0.00	71.68 0.00
8.900	1.2	12.3	57.76 L 0.00	44.43 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

4F1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
1	1.100	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.
7	1.200	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
5	1.300	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
3	1.400	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
3	1.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
1	1.600	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
0	1.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	1.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	1.900	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	2.100	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
1	2.200	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
0	2.300	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	2.400	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
3	2.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
3	2.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
4	2.700	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
7	2.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	2.900	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.

6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
9	3.100	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
3	3.200	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
8	3.300	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
5	3.400	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
3	3.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
9	3.600	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
6	3.700	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
5	3.800	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
5	3.900	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

4F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
3	4.100	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.
1	4.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
0	4.300	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
1	4.400	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
3	4.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
3	4.600	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
4	4.700	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
7	4.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	4.900	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
6	5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
6	5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
1	5.100	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
7	5.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4	5.300	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
3	5.400	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
3	5.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
1	5.600	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
0	5.700	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
1	5.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	5.900	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.



6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
5	6.100	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
5	6.200	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
9	6.400	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
3	6.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
5	6.600	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
8	6.700	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
3	6.800	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
9	6.900	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.97	47.01	4.42	52.34	0.00	119.3
1.200	2.98	24.31	2.63	26.97	0.00	71.2
1.300	2.35	16.52	2.07	18.30	0.00	56.0
1.400	2.14	12.47	1.89	13.80	0.00	51.0
1.500	2.21	9.91	1.95	10.97	0.00	52.7
1.600	2.59	8.09	2.29	8.97	0.00	61.9
1.700	3.51	6.69	3.12	7.45	0.00	84.1
1.800	6.84	5.56	6.12	6.23	0.00	150.2
1.900	22.38	4.61	20.14	5.21	0.00	124.6
2.000	21.25	2.48	19.26	2.83	0.00	66.9
2.000	21.25	2.48	19.26	2.83	0.00	66.9
2.100	40.66	3.57	36.63	4.03	0.00	96.4
2.200	6.37	4.43	5.71	4.97	0.00	119.6
2.300	3.75	5.56	3.35	6.21	0.00	90.4
2.400	3.00	7.17	2.67	7.99	0.00	72.0
2.500	2.89	9.76	2.57	10.87	0.00	69.4
2.600	3.02	8.75	2.68	9.74	0.00	72.4
2.700	3.81	6.88	3.39	7.67	0.00	91.7
2.800	6.72	5.55	6.01	6.21	0.00	149.8
2.900	21.09	4.53	18.94	5.10	0.00	122.4
3.000	15.62	2.96	14.11	3.36	0.00	80.0
3.000	15.62	2.96	14.11	3.36	0.00	80.0
3.100	17.10	4.46	15.36	5.02	0.00	120.5
3.200	6.64	5.49	5.93	6.14	0.00	148.3
3.300	3.79	6.85	3.37	7.64	0.00	91.1
3.400	3.01	8.79	2.67	9.78	0.00	72.1
3.500	2.89	11.91	2.57	13.24	0.00	69.3
3.600	3.02	8.90	2.68	9.91	0.00	72.3
3.700	3.82	6.93	3.40	7.73	0.00	91.7
3.800	6.72	5.54	6.01	6.21	0.00	149.7
3.900	21.13	4.49	18.99	5.06	0.00	121.3
4.000	18.96	2.95	17.14	3.35	0.00	79.7

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
4.000	18.96	2.95	17.14	3.35	0.00
4.100	20.80	4.48	18.70	5.05	0.00
4.200	6.72	5.53	6.01	6.19	0.00
4.300	3.82	6.91	3.40	7.70	0.00
4.400	3.03	8.88	2.69	9.88	0.00
4.500	2.91	12.04	2.58	13.39	0.00
4.600	3.03	8.89	2.69	9.89	0.00
4.700	3.82	6.93	3.40	7.72	0.00
4.800	6.71	5.55	6.00	6.21	0.00
4.900	21.06	4.50	18.93	5.07	0.00
5.000	19.18	2.97	17.34	3.37	0.00
5.000	19.18	2.97	17.34	3.37	0.00
5.100	21.06	4.50	18.93	5.07	0.00
5.200	6.71	5.55	6.00	6.21	0.00
5.300	3.82	6.93	3.40	7.72	0.00
5.400	3.03	8.89	2.69	9.89	0.00
5.500	2.91	12.04	2.58	13.39	0.00
5.600	3.03	8.88	2.69	9.88	0.00
5.700	3.82	6.91	3.40	7.70	0.00
5.800	6.72	5.53	6.01	6.19	0.00
5.900	20.80	4.48	18.70	5.05	0.00
6.000	18.96	2.95	17.14	3.35	0.00
6.000	18.96	2.95	17.14	3.35	0.00
6.100	21.13	4.49	18.99	5.06	0.00
6.200	6.72	5.54	6.01	6.21	0.00
6.300	3.82	6.93	3.40	7.73	0.00
6.400	3.02	8.90	2.68	9.91	0.00
6.500	2.89	11.91	2.57	13.24	0.00
6.600	3.01	8.79	2.67	9.78	0.00
6.700	3.79	6.85	3.37	7.64	0.00
6.800	6.64	5.49	5.93	6.14	0.00
6.900	17.10	4.46	15.36	5.02	0.00
7.000	15.62	2.96	14.11	3.36	0.00

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
7.000	15.62	2.96	14.11	3.36	0.00	80.0
7.100	21.09	4.53	18.94	5.10	0.00	122.4
7.200	6.72	5.55	6.01	6.21	0.00	149.8
7.300	3.81	6.88	3.39	7.67	0.00	91.7
7.400	3.02	8.75	2.68	9.74	0.00	72.4
7.500	2.89	9.76	2.57	10.87	0.00	69.4
7.600	3.00	7.17	2.67	7.99	0.00	72.0
7.700	3.75	5.56	3.35	6.21	0.00	90.4
7.800	6.37	4.43	5.71	4.97	0.00	119.6
7.900	40.66	3.57	36.63	4.03	0.00	96.4
8.000	21.25	2.48	19.26	2.83	0.00	67.1
8.000	21.25	2.48	19.26	2.83	0.00	67.1
8.100	22.38	4.61	20.14	5.21	0.00	124.6
8.200	6.84	5.56	6.12	6.23	0.00	150.2
8.300	3.51	6.69	3.12	7.45	0.00	84.1
8.400	2.59	8.09	2.29	8.97	0.00	61.9
8.500	2.21	9.91	1.95	10.97	0.00	52.7
8.600	2.14	12.47	1.89	13.80	0.00	51.0
8.700	2.35	16.52	2.07	18.30	0.00	56.0
8.800	2.98	24.31	2.63	26.97	0.00	71.2
8.900	4.97	47.01	4.42	52.34	0.00	119.3
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	5.9	29.10	0.00	22.39	0.00
1.100	0.4	4.4	24.15	0.00	18.58	0.00
1.200	0.3	2.9	19.48	0.00	14.99	0.00
1.300	0.1	1.5	15.37	0.00	11.82	0.00
1.400	0.0	-0.1	11.77	0.00	9.05	0.00
1.500	-0.2	-1.5	-14.12	0.00	-10.87	0.00
1.600	-0.3	-3.1	-18.13	0.00	-13.95	0.00
1.700	-0.5	-4.6	-22.18	0.00	-17.06	0.00
1.800	-0.6	-6.0	-25.80	0.00	-19.85	0.00
1.900	-0.8	-7.5	-30.04	0.00	-23.11	0.00
2.000	-0.9	-9.0	-33.90	0.00	-26.07	0.00
2.000	0.8	-9.0	31.38	0.00	24.14	0.00
2.100	0.6	6.4	27.26	0.00	20.97	0.00
2.200	0.5	4.9	23.34	0.00	17.95	0.00
2.300	0.3	3.4	19.08	0.00	14.68	0.00
2.400	0.2	2.0	14.61	0.00	11.24	0.00
2.500	0.0	0.5	-10.52	0.00	-8.10	0.00
2.600	-0.1	-1.1	-15.05	0.00	-11.58	0.00
2.700	-0.3	-2.6	-19.46	0.00	-14.97	0.00
2.800	-0.4	-4.1	-23.62	0.00	-18.17	0.00
2.900	-0.6	-5.5	-27.60	0.00	-21.23	0.00
3.000	-0.7	-7.0	-31.88	0.00	-24.52	0.00
3.000	0.7	7.3	31.71	0.00	24.39	0.00
3.100	0.6	5.8	27.40	0.00	21.08	0.00
3.200	0.4	4.4	23.44	0.00	18.03	0.00
3.300	0.3	2.9	19.24	0.00	14.80	0.00
3.400	0.1	1.4	14.80	0.00	11.39	0.00
3.500	0.0	-0.1	-10.30	0.00	-7.92	0.00
3.600	-0.2	-1.6	-14.83	0.00	-11.41	0.00
3.700	-0.3	-3.1	-19.27	0.00	-14.82	0.00
3.800	-0.5	-4.6	-23.46	0.00	-18.05	0.00
3.900	-0.6	-6.1	-27.43	0.00	-21.10	0.00
4.000	-0.8	-7.5	-31.73	0.00	-24.41	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-7.5	31.72	0.00	24.40	0.00
4.100	0.6	6.0	27.41	0.00	21.09	0.00
4.200	0.5	4.5	23.45	0.00	18.04	0.00
4.300	0.3	3.0	19.25	0.00	14.81	0.00
4.400	0.2	1.6	14.81	0.00	11.40	0.00
4.500	0.0	0.1	10.28	0.00	7.91	0.00
4.600	-0.1	-1.5	-14.82	0.00	-11.40	0.00
4.700	-0.3	-3.0	-19.25	0.00	-14.81	0.00
4.800	-0.4	-4.4	-23.45	0.00	-18.04	0.00
4.900	-0.6	-5.9	-27.42	0.00	-21.09	0.00
5.000	-0.7	-7.4	-31.72	0.00	-24.40	0.00
5.000	0.7	7.4	31.72	0.00	24.40	0.00
5.100	0.6	5.9	27.42	0.00	21.09	0.00
5.200	0.4	4.4	23.45	0.00	18.04	0.00
5.300	0.3	3.0	19.25	0.00	14.81	0.00
5.400	0.1	1.5	14.82	0.00	11.40	0.00
5.500	0.0	0.1	10.28	0.00	7.91	0.00
5.600	-0.2	-1.6	-14.81	0.00	-11.40	0.00
5.700	-0.3	-3.0	-19.25	0.00	-14.81	0.00
5.800	-0.5	-4.5	-23.45	0.00	-18.04	0.00
5.900	-0.6	-6.0	-27.41	0.00	-21.09	0.00
6.000	-0.7	-7.5	-31.72	0.00	-24.40	0.00
6.000	0.8	7.5	31.73	0.00	24.41	0.00
6.100	0.6	6.1	27.43	0.00	21.10	0.00
6.200	0.5	4.6	23.46	0.00	18.05	0.00
6.300	0.3	3.1	19.27	0.00	14.82	0.00
6.400	0.2	1.6	14.83	0.00	11.41	0.00
6.500	0.0	0.2	10.30	0.00	7.92	0.00
6.600	-0.1	-1.4	-14.80	0.00	-11.39	0.00
6.700	-0.3	-2.9	-19.24	0.00	-14.80	0.00
6.800	-0.4	-4.4	-23.44	0.00	-18.03	0.00
6.900	-0.6	-5.8	-27.40	0.00	-21.08	0.00
7.000	-0.7	-7.3	-31.71	0.00	-24.39	0.00



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-7.3	31.88	0.00	24.52	0.00
7.100	0.6	5.5	27.60	0.00	21.23	0.00
7.200	0.4	4.1	23.62	0.00	18.17	0.00
7.300	0.3	2.6	19.46	0.00	14.97	0.00
7.400	0.1	1.1	15.05	0.00	11.58	0.00
7.500	0.0	-0.4	10.52	0.00	8.10	0.00
7.600	-0.2	-2.0	-14.61	0.00	-11.24	0.00
7.700	-0.3	-3.4	-19.08	0.00	-14.68	0.00
7.800	-0.5	-4.9	-23.34	0.00	-17.95	0.00
7.900	-0.6	-6.4	-27.26	0.00	-20.97	0.00
8.000	-0.8	-7.8	-31.53	0.00	-24.26	0.00
8.000	0.9	9.0	33.90	0.00	26.07	0.00
8.100	0.8	7.5	30.04	0.00	23.11	0.00
8.200	0.6	6.0	25.80	0.00	19.85	0.00
8.300	0.5	4.6	22.18	0.00	17.06	0.00
8.400	0.3	3.1	18.13	0.00	13.95	0.00
8.500	0.2	1.6	14.12	0.00	10.87	0.00
8.600	0.0	0.1	-11.77	0.00	-9.05	0.00
8.700	-0.1	-1.5	-15.37	0.00	-11.82	0.00
8.800	-0.3	-2.9	-19.48	0.00	-14.99	0.00
8.900	-0.4	-4.4	-24.15	0.00	-18.58	0.00
9.000	-0.6	-5.9	-29.10	0.00	-22.39	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-122.8	109.9
1.100	151.3	-121.2	111.5
1.200	151.3	-119.6	113.2
1.300	151.3	-118.0	114.8
1.400	151.3	-116.3	116.4
1.500	151.3	-114.7	118.0
1.600	151.3	-113.0	119.8
1.700	151.3	-111.3	121.4
1.800	151.3	-109.7	123.0
1.900	151.3	-108.1	124.6
2.000	151.3	-106.5	126.3
2.000	151.3	-106.5	107.7
2.100	151.3	-123.4	109.4
2.200	151.3	-121.8	111.0
2.300	151.3	-120.1	112.6
2.400	151.3	-118.5	114.2
2.500	151.3	-116.9	115.8
2.600	151.3	-115.1	117.6
2.700	151.3	-113.5	119.2
2.800	151.3	-111.9	120.8
2.900	151.3	-110.3	122.5
3.000	151.3	-108.7	117.1
3.000	151.3	-108.7	108.3
3.100	151.3	-122.8	110.0
3.200	151.3	-121.2	111.6
3.300	151.3	-119.6	113.2
3.400	151.3	-117.9	114.8
3.500	151.3	-116.3	116.4
3.600	151.3	-114.6	118.2
3.700	151.3	-112.9	119.8
3.800	151.3	-111.3	121.4
3.900	151.3	-109.7	123.0
4.000	151.3	-108.1	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-108.1	108.2
4.100	151.3	-123.0	109.8
4.200	151.3	-121.3	111.4
4.300	151.3	-119.7	113.0
4.400	151.3	-118.1	114.6
4.500	151.3	-116.5	116.3
4.600	151.3	-114.7	118.0
4.700	151.3	-113.1	119.6
4.800	151.3	-111.5	121.3
4.900	151.3	-109.9	122.9
5.000	151.3	-108.2	117.1
5.000	151.3	-108.2	108.2
5.100	151.3	-122.9	109.9
5.200	151.3	-121.3	111.5
5.300	151.3	-119.6	113.1
5.400	151.3	-118.0	114.7
5.500	151.3	-116.4	116.3
5.600	151.3	-114.6	118.1
5.700	151.3	-113.0	119.7
5.800	151.3	-111.4	121.3
5.900	151.3	-109.8	123.0
6.000	151.3	-108.2	117.1
6.000	151.3	-108.2	108.1
6.100	151.3	-123.0	109.7
6.200	151.3	-121.4	111.3
6.300	151.3	-119.8	112.9
6.400	151.3	-118.2	114.6
6.500	151.3	-116.6	116.2
6.600	151.3	-114.8	117.9
6.700	151.3	-113.2	119.6
6.800	151.3	-111.6	121.2
6.900	151.3	-110.0	122.8
7.000	151.3	-108.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-108.3	108.7
7.100	151.3	-122.5	110.3
7.200	151.3	-120.8	111.9
7.300	151.3	-119.2	113.5
7.400	151.3	-117.6	115.1
7.500	151.3	-116.0	116.8
7.600	151.3	-114.2	118.5
7.700	151.3	-112.6	120.1
7.800	151.3	-111.0	121.8
7.900	151.3	-109.4	123.4
8.000	151.3	-107.7	117.2
8.000	151.3	-107.7	106.5
8.100	151.3	-124.6	108.1
8.200	151.3	-123.0	109.7
8.300	151.3	-121.4	111.3
8.400	151.3	-119.8	113.0
8.500	151.3	-118.1	114.6
8.600	151.3	-116.4	116.3
8.700	151.3	-114.8	118.0
8.800	151.3	-113.2	119.6
8.900	151.3	-111.5	121.2
9.000	151.3	-109.9	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	49.26	3.78	0.00	102.0
1.100	48.62	4.62	0.00	124.7
1.200	35.27	5.81	0.00	156.8
1.300	18.85	7.47	0.00	201.7
1.400	11.63	9.89	0.00	267.0
1.500	8.12	15.14	0.00	219.3
1.600	6.23	24.89	0.00	168.2
1.700	5.02	51.79	0.00	135.5
1.800	4.25	184.15	0.00	114.8
1.900	3.60	186.57	0.00	97.2
2.000	3.14	189.00	0.00	84.8
2.000	3.14	3.43	0.00	84.8
2.100	36.94	4.01	0.00	108.3
2.200	36.45	4.76	0.00	128.4
2.300	35.97	5.90	0.00	159.4
2.400	19.01	7.82	0.00	211.0
2.500	11.11	11.50	0.00	299.9
2.600	7.65	19.16	0.00	206.5
2.700	5.83	28.65	0.00	157.5
2.800	4.74	29.04	0.00	127.9
2.900	3.99	29.24	0.00	107.9
3.000	3.41	27.95	0.00	92.0
3.000	3.41	3.42	0.00	92.0
3.100	36.11	4.01	0.00	108.4
3.200	35.63	4.76	0.00	128.5
3.300	35.15	5.88	0.00	158.9
3.400	18.90	7.76	0.00	209.4
3.500	11.30	11.34	0.00	305.0
3.600	7.72	18.97	0.00	208.5
3.700	5.86	34.63	0.00	158.3
3.800	4.74	35.10	0.00	128.1
3.900	4.00	35.33	0.00	108.0
4.000	3.41	33.63	0.00	92.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.41	3.41	0.00	92.0
4.100	36.11	4.01	0.00	108.1
4.200	35.63	4.75	0.00	128.3
4.300	35.15	5.87	0.00	158.5
4.400	18.93	7.74	0.00	208.9
4.500	11.33	11.31	0.00	305.4
4.600	7.74	18.92	0.00	209.1
4.700	5.88	35.09	0.00	158.6
4.800	4.75	35.56	0.00	128.3
4.900	4.01	35.81	0.00	108.2
5.000	3.41	34.13	0.00	92.1
5.000	3.41	3.41	0.00	92.1
5.100	36.04	4.01	0.00	108.2
5.200	35.56	4.75	0.00	128.3
5.300	35.09	5.88	0.00	158.6
5.400	18.92	7.74	0.00	209.1
5.500	11.32	11.32	0.00	305.6
5.600	7.74	18.93	0.00	208.9
5.700	5.87	35.15	0.00	158.5
5.800	4.75	35.63	0.00	128.3
5.900	4.01	35.87	0.00	108.1
6.000	3.41	34.17	0.00	92.1
6.000	3.41	3.41	0.00	92.0
6.100	35.56	4.00	0.00	108.0
6.200	35.10	4.74	0.00	128.1
6.300	34.63	5.86	0.00	158.3
6.400	18.97	7.72	0.00	208.5
6.500	11.36	11.28	0.00	304.6
6.600	7.76	18.90	0.00	209.4
6.700	5.88	35.15	0.00	158.9
6.800	4.76	35.63	0.00	128.5
6.900	4.01	35.87	0.00	108.4
7.000	3.42	34.21	0.00	92.2

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.42	3.41	0.00	92.0
7.100	29.43	3.99	0.00	107.9
7.200	29.04	4.74	0.00	127.9
7.300	28.65	5.83	0.00	157.5
7.400	19.16	7.65	0.00	206.5
7.500	11.51	11.10	0.00	299.6
7.600	7.82	19.01	0.00	211.0
7.700	5.90	35.97	0.00	159.4
7.800	4.76	36.45	0.00	128.4
7.900	4.01	36.70	0.00	108.3
8.000	3.42	34.85	0.00	92.3
8.000	3.42	3.14	0.00	84.8
8.100	186.57	3.60	0.00	97.2
8.200	184.15	4.25	0.00	114.8
8.300	51.79	5.02	0.00	135.5
8.400	24.89	6.23	0.00	168.2
8.500	15.16	8.11	0.00	219.1
8.600	9.89	11.63	0.00	267.0
8.700	7.47	18.85	0.00	201.7
8.800	5.81	35.27	0.00	156.8
8.900	4.62	48.62	0.00	124.7
9.000	3.78	999.00	0.00	102.0





3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.100 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
3.400 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
3.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
3.600 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
3.700 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
3.800 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
3.900 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

4F1

Span g tt.	Moment Capacity				Available Capacity for LL+I				
	Positive Bending		Negative Bending		Positive Bending		Negative Bending		
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo	
46.3	4.000	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
64.0	4.100	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
77.9	4.200	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
87.8	4.300	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
93.9	4.400	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
96.1	4.500	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
94.1	4.600	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
88.2	4.700	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
78.5	4.800	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
64.8	4.900	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
47.4	5.000	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
47.4	5.000	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
64.8	5.100	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
78.5	5.200	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
88.2	5.300	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
94.1	5.400	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
96.1	5.500	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
93.9	5.600	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
87.8	5.700	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
77.9	5.800	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
64.0	5.900	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2

6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.100 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
6.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
6.300 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
6.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
6.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
6.600 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
6.700 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
6.800 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
6.900 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
7.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

4F1

Span g tt.	Moment Capacity		Available Capacity for LL+I	
	Positive Bending Top	Negative Bending Bott.	Positive Bending Top	Negative Bending Bott.
49.4	279.4	279.4	309.4	309.4
65.8	279.4	279.4	293.0	293.0
78.5	279.4	279.4	280.3	280.3
87.2	279.4	279.4	271.6	271.6
92.1	279.4	279.4	266.7	266.7
93.0	279.4	279.4	265.8	265.8
89.9	279.4	279.4	268.9	268.9
82.8	279.4	279.4	276.0	276.0
71.8	279.4	279.4	287.0	287.0
57.0	279.4	279.4	301.8	301.8
38.3	279.4	279.4	320.5	320.5
38.3	279.4	279.4	320.5	320.5
60.0	279.4	279.4	298.8	298.8
77.9	279.4	279.4	280.9	280.9
91.8	279.4	279.4	267.0	267.0
01.9	279.4	279.4	256.9	256.9
08.1	279.4	279.4	250.7	250.7
10.1	279.4	279.4	248.7	248.7
08.2	279.4	279.4	250.6	250.6
02.5	279.4	279.4	256.3	256.3
92.9	279.4	279.4	265.9	265.9

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.60	48.80	4.60	48.80	0.00	124.3
1.200	2.75	25.20	2.75	25.20	0.00	74.3
1.300	2.17	17.12	2.17	17.12	0.00	58.5
1.400	1.97	12.92	1.97	12.92	0.00	53.3
1.500	2.04	10.27	2.04	10.27	0.00	55.1
1.600	2.39	8.38	2.39	8.38	0.00	64.6
1.700	3.25	6.95	3.25	6.95	0.00	87.7
1.800	6.36	5.79	6.36	5.79	0.00	156.3
1.900	20.89	4.81	20.89	4.81	0.00	130.0
2.000	19.93	2.60	19.93	2.60	0.00	70.1
2.000	19.93	2.60	19.93	2.60	0.00	70.1
2.100	37.99	3.73	37.99	3.73	0.00	100.6
2.200	5.93	4.61	5.93	4.61	0.00	124.5
2.300	3.48	5.78	3.48	5.78	0.00	94.1
2.400	2.78	7.45	2.78	7.45	0.00	75.0
2.500	2.68	10.14	2.68	10.14	0.00	72.3
2.600	2.79	9.08	2.79	9.08	0.00	75.4
2.700	3.54	7.14	3.54	7.14	0.00	95.5
2.800	6.25	5.77	6.25	5.77	0.00	155.8
2.900	19.66	4.72	19.66	4.72	0.00	127.5
3.000	14.62	3.10	14.62	3.10	0.00	83.6
3.000	14.62	3.10	14.62	3.10	0.00	83.6
3.100	15.94	4.65	15.94	4.65	0.00	125.5
3.200	6.17	5.71	6.17	5.71	0.00	154.2
3.300	3.51	7.11	3.51	7.11	0.00	94.9
3.400	2.78	9.12	2.78	9.12	0.00	75.1
3.500	2.68	12.35	2.68	12.35	0.00	72.2
3.600	2.79	9.24	2.79	9.24	0.00	75.4
3.700	3.54	7.20	3.54	7.20	0.00	95.5
3.800	6.24	5.77	6.24	5.77	0.00	155.7
3.900	19.71	4.68	19.71	4.68	0.00	126.4
4.000	17.75	3.09	17.75	3.09	0.00	83.4

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	17.75	3.09	17.75	3.09	0.00	83.4
4.100	19.41	4.67	19.41	4.67	0.00	126.1
4.200	6.25	5.75	6.25	5.75	0.00	155.3
4.300	3.55	7.18	3.55	7.18	0.00	95.7
4.400	2.80	9.21	2.80	9.21	0.00	75.7
4.500	2.69	12.49	2.69	12.49	0.00	72.6
4.600	2.80	9.23	2.80	9.23	0.00	75.6
4.700	3.54	7.19	3.54	7.19	0.00	95.6
4.800	6.24	5.77	6.24	5.77	0.00	155.8
4.900	19.65	4.69	19.65	4.69	0.00	126.6
5.000	17.96	3.10	17.96	3.10	0.00	83.8
5.000	17.96	3.10	17.96	3.10	0.00	83.8
5.100	19.64	4.69	19.64	4.69	0.00	126.6
5.200	6.24	5.77	6.24	5.77	0.00	155.8
5.300	3.54	7.19	3.54	7.19	0.00	95.6
5.400	2.80	9.23	2.80	9.23	0.00	75.6
5.500	2.69	12.49	2.69	12.49	0.00	72.6
5.600	2.80	9.21	2.80	9.21	0.00	75.7
5.700	3.55	7.18	3.55	7.18	0.00	95.7
5.800	6.25	5.75	6.25	5.75	0.00	155.3
5.900	19.41	4.67	19.41	4.67	0.00	126.1
6.000	17.75	3.09	17.75	3.09	0.00	83.4
6.000	17.75	3.09	17.75	3.09	0.00	83.4
6.100	19.71	4.68	19.71	4.68	0.00	126.4
6.200	6.24	5.77	6.24	5.77	0.00	155.7
6.300	3.54	7.20	3.54	7.20	0.00	95.5
6.400	2.79	9.24	2.79	9.24	0.00	75.4
6.500	2.68	12.35	2.68	12.35	0.00	72.2
6.600	2.78	9.12	2.78	9.12	0.00	75.1
6.700	3.51	7.11	3.51	7.11	0.00	94.9
6.800	6.17	5.71	6.17	5.71	0.00	154.2
6.900	15.94	4.65	15.94	4.65	0.00	125.5
7.000	14.62	3.10	14.62	3.10	0.00	83.6

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	14.62	3.10	14.62	3.10	0.00	83.6
7.100	19.66	4.72	19.66	4.72	0.00	127.5
7.200	6.25	5.77	6.25	5.77	0.00	155.8
7.300	3.54	7.14	3.54	7.14	0.00	95.5
7.400	2.79	9.08	2.79	9.08	0.00	75.4
7.500	2.68	10.14	2.68	10.14	0.00	72.3
7.600	2.78	7.45	2.78	7.45	0.00	75.0
7.700	3.48	5.78	3.48	5.78	0.00	94.1
7.800	5.93	4.61	5.93	4.61	0.00	124.5
7.900	37.99	3.73	37.99	3.73	0.00	100.6
8.000	19.93	2.60	19.93	2.60	0.00	70.3
8.000	19.93	2.60	19.93	2.60	0.00	70.3
8.100	20.89	4.81	20.89	4.81	0.00	130.0
8.200	6.36	5.79	6.36	5.79	0.00	156.3
8.300	3.25	6.95	3.25	6.95	0.00	87.7
8.400	2.39	8.38	2.39	8.38	0.00	64.6
8.500	2.04	10.27	2.04	10.27	0.00	55.1
8.600	1.97	12.92	1.97	12.92	0.00	53.3
8.700	2.17	17.12	2.17	17.12	0.00	58.5
8.800	2.75	25.20	2.75	25.20	0.00	74.3
8.900	4.60	48.80	4.60	48.80	0.00	124.3
9.000	999.00	999.00	999.00	999.00	0.00	999.0



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
1.000	0.0	0.0	0.00 R	0.00
1.100	1.2	12.3	55.29 R	0.00
1.200	2.1	21.0	90.77 R	0.00
1.300	2.6	26.2	108.35 R	0.00
1.400	2.8	27.9	113.03 L	0.00
1.500	2.6	26.1	109.86 L	0.00
1.600	2.0	20.5	100.66 L	0.00
1.700	1.1	11.3	83.63 R	0.00
1.800	-0.2	-1.4	58.23 R	0.00
1.900	-1.8	-17.6	-48.78 L	0.00
2.000	-3.8	-37.3	-81.29 R	0.00
2.000	-3.8	-37.3	-81.29 R	0.00
2.100	-2.1	-20.3	-59.16 L	0.00
2.200	-0.7	-6.8	51.89 R	0.00
2.300	0.3	3.1	75.97 R	0.00
2.400	0.9	9.5	88.69 R	0.00
2.500	1.2	12.5	93.55 R	0.00
2.600	1.1	11.5	90.03 L	0.00
2.700	0.7	7.1	78.95 R	0.00
2.800	-0.1	-0.8	58.70 R	0.00
2.900	-1.3	-12.3	-45.81 R	0.00
3.000	-2.8	-27.3	-66.42 L	0.00
3.000	-2.8	-27.3	-66.42 L	0.00
3.100	-1.2	-11.6	-46.95 L	0.00
3.200	0.0	0.6	60.94 L	0.00
3.300	0.9	9.3	80.03 L	0.00
3.400	1.4	14.5	89.93 R	0.00
3.500	1.6	16.1	93.08 L	0.00
3.600	1.4	13.9	89.27 L	0.00
3.700	0.8	8.2	78.61 R	0.00
3.800	-0.1	-1.0	58.74 R	0.00
3.900	-1.4	-13.8	-46.15 R	0.00
4.000	-3.0	-30.0	-66.52 L	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-30.0	-66.52 L	0.00
4.100	-1.4	-13.9	-46.23 L	0.00
4.200	-0.2	-1.4	58.90 L	0.00
4.300	0.7	7.7	78.69 L	0.00
4.400	1.3	13.2	89.26 R	0.00
4.500	1.5	15.2	92.36 L	0.00
4.600	1.3	13.4	89.22 L	0.00
4.700	0.8	8.0	78.59 R	0.00
4.800	-0.1	-0.8	58.75 R	0.00
4.900	-1.3	-13.2	-46.17 R	0.00
5.000	-2.9	-29.1	-66.52 R	0.00
5.000	-2.9	-29.1	-66.52 R	0.00
5.100	-1.3	-13.2	-46.17 L	0.00
5.200	-0.1	-0.8	58.75 L	0.00
5.300	0.8	8.0	78.59 L	0.00
5.400	1.3	13.4	89.22 R	0.00
5.500	1.5	15.2	92.36 R	0.00
5.600	1.3	13.2	89.26 L	0.00
5.700	0.7	7.7	78.69 R	0.00
5.800	-0.2	-1.4	58.90 R	0.00
5.900	-1.4	-13.9	-46.23 R	0.00
6.000	-3.0	-30.0	-66.50 R	0.00
6.000	-3.0	-30.0	-66.50 R	0.00
6.100	-1.4	-13.8	-46.15 L	0.00
6.200	-0.1	-1.0	58.74 L	0.00
6.300	0.8	8.2	78.61 L	0.00
6.400	1.4	13.9	89.27 R	0.00
6.500	1.6	16.1	93.08 R	0.00
6.600	1.4	14.5	89.93 L	0.00
6.700	0.9	9.3	80.03 R	0.00
6.800	0.0	0.6	60.94 R	0.00
6.900	-1.2	-11.6	-46.95 R	0.00
7.000	-2.8	-27.3	-66.40 R	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
7.000	-2.8	-27.3	-66.40	R	0.00	0.00
7.100	-1.3	-12.3	-45.81	L	0.00	0.00
7.200	-0.1	-0.8	58.71	L	0.00	0.00
7.300	0.7	7.1	78.95	L	0.00	0.00
7.400	1.1	11.5	90.04	R	0.00	0.00
7.500	1.2	12.5	93.55	L	0.00	0.00
7.600	0.9	9.5	88.69	L	0.00	0.00
7.700	0.3	3.1	75.97	L	0.00	0.00
7.800	-0.7	-6.8	51.89	L	0.00	0.00
7.900	-2.1	-20.3	-59.16	R	0.00	0.00
8.000	-3.8	-37.3	-81.29	L	0.00	0.00
8.000	-3.8	-37.3	-81.29	L	0.00	0.00
8.100	-1.8	-17.6	-48.78	R	0.00	0.00
8.200	-0.2	-1.4	58.23	L	0.00	0.00
8.300	1.1	11.3	83.63	L	0.00	0.00
8.400	2.0	20.5	100.66	R	0.00	0.00
8.500	2.6	26.1	109.86	R	0.00	0.00
8.600	2.8	27.9	113.03	R	0.00	0.00
8.700	2.6	26.2	108.35	L	0.00	0.00
8.800	2.1	21.0	90.77	L	0.00	0.00
8.900	1.2	12.3	55.29	L	0.00	0.00
9.000	0.0	0.0	0.00	R	0.00	0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

5C1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
1	1.100	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.
7	1.200	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
5	1.300	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
3	1.400	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
3	1.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
1	1.600	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
0	1.700	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	1.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	1.900	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	2.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	2.100	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
1	2.200	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
0	2.300	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	2.400	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
3	2.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
3	2.600	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
4	2.700	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
7	2.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	2.900	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.

6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
6	3.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
9	3.100	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
3	3.200	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
8	3.300	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
5	3.400	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
3	3.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
9	3.600	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
6	3.700	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
5	3.800	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
5	3.900	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

5C1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	4.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
3	4.100	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.
1	4.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
0	4.300	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
1	4.400	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
3	4.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
3	4.600	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
4	4.700	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
7	4.800	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
1	4.900	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
6	5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
6	5.000	300.6C	268.7	-268.7	-300.6C	332.7	300.7	-236.6	-268.
1	5.100	300.6C	268.7	-268.7	-300.6C	315.2	283.2	-254.1	-286.
7	5.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4	5.300	300.6C	268.7	-268.7	-300.6C	291.8	259.9	-277.4	-309.
3	5.400	300.6C	268.7	-268.7	-300.6C	286.0	254.0	-283.3	-315.
3	5.500	300.6C	268.7	-268.7	-300.6C	284.0	252.0	-285.3	-317.
1	5.600	300.6C	268.7	-268.7	-300.6C	286.2	254.2	-283.1	-315.
0	5.700	300.6C	268.7	-268.7	-300.6C	292.2	260.3	-277.0	-309.
1	5.800	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
3	5.900	300.6C	268.7	-268.7	-300.6C	316.0	284.0	-253.3	-285.

6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
6	6.000	300.6C	268.7	-268.7	-300.6C	333.7	301.7	-235.6	-267.
5	6.100	300.6C	268.7	-268.7	-300.6C	315.8	283.8	-253.5	-285.
5	6.200	300.6C	268.7	-268.7	-300.6C	301.8	269.8	-267.5	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	291.6	259.7	-277.6	-309.
9	6.400	300.6C	268.7	-268.7	-300.6C	285.4	253.4	-283.9	-315.
3	6.500	300.6C	268.7	-268.7	-300.6C	283.0	251.0	-286.3	-318.
5	6.600	300.6C	268.7	-268.7	-300.6C	284.8	252.8	-284.5	-316.
8	6.700	300.6C	268.7	-268.7	-300.6C	290.4	258.5	-278.9	-310.
3	6.800	300.6C	268.7	-268.7	-300.6C	300.0	268.0	-269.3	-301.
9	6.900	300.6C	268.7	-268.7	-300.6C	313.4	281.4	-255.9	-287.
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

5C1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
6	7.000	300.6C	268.7	-268.7	-300.6C	330.7	298.7	-238.6	-270.
1	7.100	300.6C	268.7	-268.7	-300.6C	314.2	282.2	-255.1	-287.
7	7.200	300.6C	268.7	-268.7	-300.6C	301.6	269.6	-267.7	-299.
4	7.300	300.6C	268.7	-268.7	-300.6C	292.8	260.9	-276.4	-308.
3	7.400	300.6C	268.7	-268.7	-300.6C	288.0	256.0	-281.3	-313.
3	7.500	300.6C	268.7	-268.7	-300.6C	287.0	255.0	-282.3	-314.
1	7.600	300.6C	268.7	-268.7	-300.6C	290.2	258.2	-279.1	-311.
0	7.700	300.6C	268.7	-268.7	-300.6C	297.3	265.3	-272.0	-304.
1	7.800	300.6C	268.7	-268.7	-300.6C	308.2	276.2	-261.1	-293.
3	7.900	300.6C	268.7	-268.7	-300.6C	323.0	291.0	-246.3	-278.
6	8.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
6	8.000	300.6C	268.7	-268.7	-300.6C	341.7	309.7	-227.6	-259.
3	8.100	300.6C	268.7	-268.7	-300.6C	320.0	288.0	-249.3	-281.
1	8.200	300.6C	268.7	-268.7	-300.6C	302.2	270.2	-267.1	-299.
0	8.300	300.6C	268.7	-268.7	-300.6C	288.2	256.3	-281.1	-313.
1	8.400	300.6C	268.7	-268.7	-300.6C	278.2	246.2	-291.1	-323.
3	8.500	300.6C	268.7	-268.7	-300.6C	272.0	240.0	-297.3	-329.
3	8.600	300.6C	268.7	-268.7	-300.6C	270.0	238.0	-299.3	-331.
5	8.700	300.6C	268.7	-268.7	-300.6C	271.8	239.8	-297.5	-329.
7	8.800	300.6C	268.7	-268.7	-300.6C	277.5	245.6	-291.7	-323.
1	8.900	300.6C	268.7	-268.7	-300.6C	287.2	255.2	-282.1	-314.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber -bend	bottom fiber +bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.19	53.74	4.61	59.83	0.00	184.6
1.200	3.06	27.78	2.70	30.83	0.00	108.2
1.300	2.51	18.89	2.21	20.92	0.00	88.5
1.400	2.39	14.25	2.11	15.78	0.00	84.2
1.500	2.48	11.33	2.18	12.54	0.00	87.4
1.600	2.76	9.24	2.45	10.26	0.00	97.8
1.700	3.45	7.65	3.06	8.52	0.00	122.6
1.800	5.19	6.36	4.64	7.12	0.00	185.6
1.900	12.11	5.11	10.90	5.77	0.00	204.4
2.000	26.25	2.80	23.79	3.19	0.00	112.0
2.000	26.25	2.80	23.79	3.19	0.00	112.0
2.100	13.67	4.16	12.31	4.70	0.00	166.5
2.200	5.94	5.09	5.32	5.71	0.00	203.5
2.300	3.91	5.80	3.49	6.48	0.00	139.7
2.400	3.27	6.45	2.91	7.20	0.00	116.5
2.500	3.07	6.91	2.73	7.70	0.00	109.0
2.600	3.20	7.12	2.84	7.93	0.00	113.7
2.700	3.71	6.93	3.30	7.73	0.00	132.2
2.800	5.14	6.43	4.59	7.19	0.00	183.7
2.900	10.61	5.57	9.53	6.27	0.00	222.7
3.000	18.49	3.59	16.70	4.07	0.00	143.7
3.000	18.49	3.59	16.70	4.07	0.00	143.7
3.100	9.56	5.45	8.58	6.13	0.00	218.0
3.200	4.92	6.35	4.40	7.10	0.00	175.9
3.300	3.63	7.01	3.23	7.82	0.00	129.2
3.400	3.17	7.55	2.81	8.40	0.00	112.4
3.500	3.04	7.77	2.70	8.64	0.00	107.9
3.600	3.20	7.61	2.84	8.47	0.00	113.5
3.700	3.71	7.07	3.30	7.89	0.00	132.1
3.800	5.14	6.41	4.59	7.18	0.00	183.7
3.900	10.58	5.49	9.51	6.19	0.00	219.7
4.000	23.80	3.54	21.51	4.02	0.00	141.7

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber -bend	bottom fiber +bend		
4.000	23.80	3.54	21.51	4.02	0.00	141.7
4.100	10.51	5.48	9.44	6.17	0.00	219.2
4.200	5.13	6.39	4.59	7.16	0.00	183.5
4.300	3.71	7.06	3.31	7.88	0.00	132.3
4.400	3.21	7.59	2.85	8.45	0.00	113.9
4.500	3.08	7.80	2.73	8.68	0.00	109.1
4.600	3.20	7.63	2.85	8.49	0.00	113.9
4.700	3.71	7.08	3.31	7.89	0.00	132.3
4.800	5.13	6.41	4.59	7.18	0.00	183.5
4.900	10.55	5.50	9.48	6.20	0.00	220.1
5.000	23.61	3.56	21.34	4.04	0.00	142.3
5.000	23.61	3.56	21.34	4.04	0.00	142.3
5.100	10.55	5.50	9.48	6.20	0.00	220.1
5.200	5.13	6.41	4.59	7.18	0.00	183.5
5.300	3.71	7.08	3.31	7.89	0.00	132.3
5.400	3.20	7.60	2.85	8.46	0.00	113.9
5.500	3.08	7.80	2.73	8.68	0.00	109.1
5.600	3.21	7.62	2.85	8.48	0.00	113.9
5.700	3.71	7.06	3.31	7.88	0.00	132.3
5.800	5.13	6.39	4.59	7.16	0.00	183.5
5.900	10.51	5.48	9.44	6.17	0.00	219.2
6.000	24.80	3.54	22.42	4.02	0.00	141.7
6.000	24.80	3.54	22.42	4.02	0.00	141.7
6.100	10.58	5.49	9.51	6.19	0.00	219.7
6.200	5.14	6.41	4.59	7.18	0.00	183.7
6.300	3.71	7.07	3.30	7.89	0.00	132.1
6.400	3.20	7.61	2.84	8.47	0.00	113.5
6.500	3.04	7.77	2.70	8.64	0.00	107.9
6.600	3.17	7.58	2.81	8.43	0.00	112.4
6.700	3.63	7.01	3.23	7.82	0.00	129.2
6.800	4.92	6.35	4.40	7.10	0.00	175.9
6.900	9.56	5.45	8.58	6.13	0.00	218.0
7.000	18.49	3.59	16.70	4.07	0.00	143.7

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	18.49	3.59	16.70	4.07	0.00	143.7
7.100	10.61	5.57	9.53	6.27	0.00	222.7
7.200	5.14	6.43	4.59	7.19	0.00	183.7
7.300	3.71	6.93	3.30	7.73	0.00	132.2
7.400	3.20	7.12	2.84	7.93	0.00	113.7
7.500	3.07	6.91	2.73	7.70	0.00	109.0
7.600	3.27	6.46	2.91	7.20	0.00	116.5
7.700	3.91	5.80	3.49	6.48	0.00	139.7
7.800	5.94	5.09	5.32	5.71	0.00	203.5
7.900	13.67	4.16	12.31	4.70	0.00	166.5
8.000	26.25	2.80	23.79	3.19	0.00	112.0
8.000	26.25	2.80	23.79	3.19	0.00	112.0
8.100	12.11	5.11	10.90	5.77	0.00	204.4
8.200	5.19	6.36	4.64	7.12	0.00	185.6
8.300	3.45	7.65	3.06	8.52	0.00	122.6
8.400	2.76	9.24	2.45	10.26	0.00	97.8
8.500	2.48	11.33	2.18	12.54	0.00	87.4
8.600	2.39	14.25	2.11	15.78	0.00	84.2
8.700	2.51	18.89	2.21	20.92	0.00	88.5
8.800	3.06	27.78	2.70	30.83	0.00	108.2
8.900	5.19	53.74	4.61	59.83	0.00	184.6
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	5.9	27.46	0.00	21.13	0.00
1.100	0.4	4.4	23.12	0.00	17.78	0.00
1.200	0.3	2.9	18.98	0.00	14.60	0.00
1.300	0.1	1.5	15.10	0.00	11.62	0.00
1.400	0.0	-0.1	-12.22	0.00	-9.40	0.00
1.500	-0.2	-1.5	-14.74	0.00	-11.34	0.00
1.600	-0.3	-3.1	-17.66	0.00	-13.59	0.00
1.700	-0.5	-4.6	-20.73	0.00	-15.94	0.00
1.800	-0.6	-6.0	-23.87	0.00	-18.36	0.00
1.900	-0.8	-7.5	-27.19	0.00	-20.92	0.00
2.000	-0.9	-9.0	-30.19	0.00	-23.23	0.00
2.000	0.8	-9.0	28.92	0.00	22.25	0.00
2.100	0.6	6.4	25.54	0.00	19.65	0.00
2.200	0.5	4.9	21.74	0.00	16.72	0.00
2.300	0.3	3.4	17.87	0.00	13.75	0.00
2.400	0.2	2.0	14.89	0.00	11.45	0.00
2.500	0.0	0.5	12.26	0.00	9.43	0.00
2.600	-0.1	-1.1	-14.71	0.00	-11.31	0.00
2.700	-0.3	-2.6	-17.98	0.00	-13.83	0.00
2.800	-0.4	-4.1	-21.57	0.00	-16.59	0.00
2.900	-0.6	-5.5	-25.16	0.00	-19.36	0.00
3.000	-0.7	-7.0	-28.58	0.00	-21.99	0.00
3.000	0.7	7.3	28.29	0.00	21.76	0.00
3.100	0.6	5.8	24.87	0.00	19.13	0.00
3.200	0.4	4.4	21.30	0.00	16.39	0.00
3.300	0.3	2.9	17.80	0.00	13.69	0.00
3.400	0.1	1.4	14.79	0.00	11.38	0.00
3.500	0.0	-0.1	-11.79	0.00	-9.07	0.00
3.600	-0.2	-1.6	-14.80	0.00	-11.38	0.00
3.700	-0.3	-3.1	-17.81	0.00	-13.70	0.00
3.800	-0.5	-4.6	-21.40	0.00	-16.47	0.00
3.900	-0.6	-6.1	-25.02	0.00	-19.25	0.00
4.000	-0.8	-7.5	-28.47	0.00	-21.90	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-7.5	28.44	0.00	21.88	0.00
4.100	0.6	6.0	25.00	0.00	19.23	0.00
4.200	0.5	4.5	21.39	0.00	16.45	0.00
4.300	0.3	3.0	17.80	0.00	13.69	0.00
4.400	0.2	1.6	14.80	0.00	11.38	0.00
4.500	0.0	0.1	11.76	0.00	9.05	0.00
4.600	-0.1	-1.5	-14.80	0.00	-11.38	0.00
4.700	-0.3	-3.0	-17.80	0.00	-13.69	0.00
4.800	-0.4	-4.4	-21.39	0.00	-16.46	0.00
4.900	-0.6	-5.9	-25.01	0.00	-19.24	0.00
5.000	-0.7	-7.4	-28.46	0.00	-21.89	0.00
5.000	0.7	7.4	28.46	0.00	21.89	0.00
5.100	0.6	5.9	25.01	0.00	19.24	0.00
5.200	0.4	4.4	21.39	0.00	16.46	0.00
5.300	0.3	3.0	17.80	0.00	13.69	0.00
5.400	0.1	1.5	14.80	0.00	11.38	0.00
5.500	0.0	0.1	11.76	0.00	9.05	0.00
5.600	-0.2	-1.6	-14.80	0.00	-11.38	0.00
5.700	-0.3	-3.0	-17.80	0.00	-13.69	0.00
5.800	-0.5	-4.5	-21.39	0.00	-16.45	0.00
5.900	-0.6	-6.0	-25.00	0.00	-19.23	0.00
6.000	-0.7	-7.5	-28.44	0.00	-21.88	0.00
6.000	0.8	7.5	28.47	0.00	21.90	0.00
6.100	0.6	6.1	25.02	0.00	19.25	0.00
6.200	0.5	4.6	21.40	0.00	16.47	0.00
6.300	0.3	3.1	17.81	0.00	13.70	0.00
6.400	0.2	1.6	14.80	0.00	11.38	0.00
6.500	0.0	0.2	11.79	0.00	9.07	0.00
6.600	-0.1	-1.4	-14.79	0.00	-11.38	0.00
6.700	-0.3	-2.9	-17.80	0.00	-13.69	0.00
6.800	-0.4	-4.4	-21.30	0.00	-16.39	0.00
6.900	-0.6	-5.8	-24.87	0.00	-19.13	0.00
7.000	-0.7	-7.3	-28.29	0.00	-21.76	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-7.3	28.58	0.00	21.99	0.00
7.100	0.6	5.5	25.16	0.00	19.36	0.00
7.200	0.4	4.1	21.57	0.00	16.59	0.00
7.300	0.3	2.6	17.98	0.00	13.83	0.00
7.400	0.1	1.1	14.71	0.00	11.31	0.00
7.500	0.0	-0.4	-12.26	0.00	-9.43	0.00
7.600	-0.2	-2.0	-14.89	0.00	-11.45	0.00
7.700	-0.3	-3.4	-17.87	0.00	-13.75	0.00
7.800	-0.5	-4.9	-21.74	0.00	-16.72	0.00
7.900	-0.6	-6.4	-25.54	0.00	-19.65	0.00
8.000	-0.8	-7.8	-29.11	0.00	-22.39	0.00
8.000	0.9	9.0	30.19	0.00	23.23	0.00
8.100	0.8	7.5	27.19	0.00	20.92	0.00
8.200	0.6	6.0	23.87	0.00	18.36	0.00
8.300	0.5	4.6	20.73	0.00	15.94	0.00
8.400	0.3	3.1	17.66	0.00	13.59	0.00
8.500	0.2	1.6	14.74	0.00	11.34	0.00
8.600	0.0	0.1	11.94	0.00	9.19	0.00
8.700	-0.1	-1.5	-15.10	0.00	-11.62	0.00
8.800	-0.3	-2.9	-18.98	0.00	-14.60	0.00
8.900	-0.4	-4.4	-23.12	0.00	-17.78	0.00
9.000	-0.6	-5.9	-27.46	0.00	-21.13	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-122.8	109.9
1.100	151.3	-121.2	111.5
1.200	151.3	-119.6	113.2
1.300	151.3	-118.0	114.8
1.400	151.3	-116.3	116.4
1.500	151.3	-114.7	118.0
1.600	151.3	-113.0	119.8
1.700	151.3	-111.3	121.4
1.800	151.3	-109.7	123.0
1.900	151.3	-108.1	124.6
2.000	151.3	-106.5	126.3
2.000	151.3	-106.5	107.7
2.100	151.3	-123.4	109.4
2.200	151.3	-121.8	111.0
2.300	151.3	-120.1	112.6
2.400	151.3	-118.5	114.2
2.500	151.3	-116.9	115.8
2.600	151.3	-115.1	117.6
2.700	151.3	-113.5	119.2
2.800	151.3	-111.9	120.8
2.900	151.3	-110.3	122.5
3.000	151.3	-108.7	117.1
3.000	151.3	-108.7	108.3
3.100	151.3	-122.8	110.0
3.200	151.3	-121.2	111.6
3.300	151.3	-119.6	113.2
3.400	151.3	-117.9	114.8
3.500	151.3	-116.3	116.4
3.600	151.3	-114.6	118.2
3.700	151.3	-112.9	119.8
3.800	151.3	-111.3	121.4
3.900	151.3	-109.7	123.0
4.000	151.3	-108.1	117.1



## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-108.1	108.2
4.100	151.3	-123.0	109.8
4.200	151.3	-121.3	111.4
4.300	151.3	-119.7	113.0
4.400	151.3	-118.1	114.6
4.500	151.3	-116.5	116.3
4.600	151.3	-114.7	118.0
4.700	151.3	-113.1	119.6
4.800	151.3	-111.5	121.3
4.900	151.3	-109.9	122.9
5.000	151.3	-108.2	117.1
5.000	151.3	-108.2	108.2
5.100	151.3	-122.9	109.9
5.200	151.3	-121.3	111.5
5.300	151.3	-119.6	113.1
5.400	151.3	-118.0	114.7
5.500	151.3	-116.4	116.3
5.600	151.3	-114.6	118.1
5.700	151.3	-113.0	119.7
5.800	151.3	-111.4	121.3
5.900	151.3	-109.8	123.0
6.000	151.3	-108.2	117.1
6.000	151.3	-108.2	108.1
6.100	151.3	-123.0	109.7
6.200	151.3	-121.4	111.3
6.300	151.3	-119.8	112.9
6.400	151.3	-118.2	114.6
6.500	151.3	-116.6	116.2
6.600	151.3	-114.8	117.9
6.700	151.3	-113.2	119.6
6.800	151.3	-111.6	121.2
6.900	151.3	-110.0	122.8
7.000	151.3	-108.3	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-108.3	108.7
7.100	151.3	-122.5	110.3
7.200	151.3	-120.8	111.9
7.300	151.3	-119.2	113.5
7.400	151.3	-117.6	115.1
7.500	151.3	-116.0	116.8
7.600	151.3	-114.2	118.5
7.700	151.3	-112.6	120.1
7.800	151.3	-111.0	121.8
7.900	151.3	-109.4	123.4
8.000	151.3	-107.7	117.2
8.000	151.3	-107.7	106.5
8.100	151.3	-124.6	108.1
8.200	151.3	-123.0	109.7
8.300	151.3	-121.4	111.3
8.400	151.3	-119.8	113.0
8.500	151.3	-118.1	114.6
8.600	151.3	-116.4	116.3
8.700	151.3	-114.8	118.0
8.800	151.3	-113.2	119.6
8.900	151.3	-111.5	121.2
9.000	151.3	-109.9	117.0

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	55.95	4.00	0.00	160.1
1.100	31.74	4.82	0.00	193.0
1.200	20.27	5.96	0.00	238.5
1.300	13.10	7.60	0.00	304.0
1.400	9.52	9.85	0.00	380.7
1.500	7.79	12.87	0.00	311.4
1.600	6.39	17.78	0.00	255.8
1.700	5.37	26.91	0.00	214.9
1.800	4.60	48.03	0.00	183.9
1.900	3.98	132.05	0.00	159.0
2.000	3.53	231.98	0.00	141.1
2.000	3.53	3.73	0.00	141.1
2.100	38.76	4.28	0.00	171.3
2.200	24.58	5.11	0.00	204.2
2.300	17.08	6.30	0.00	252.0
2.400	12.63	7.67	0.00	306.9
2.500	9.77	9.45	0.00	377.8
2.600	7.83	11.77	0.00	313.1
2.700	6.32	15.25	0.00	252.6
2.800	5.19	20.78	0.00	207.5
2.900	4.38	30.41	0.00	175.3
3.000	3.80	33.09	0.00	152.1
3.000	3.80	3.83	0.00	152.1
3.100	38.04	4.42	0.00	176.8
3.200	24.75	5.24	0.00	209.5
3.300	17.31	6.36	0.00	254.4
3.400	12.80	7.76	0.00	310.5
3.500	9.86	9.94	0.00	394.5
3.600	7.74	12.87	0.00	309.6
3.700	6.34	17.36	0.00	253.7
3.800	5.20	24.69	0.00	208.0
3.900	4.39	37.60	0.00	175.4
4.000	3.80	43.99	0.00	151.9

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.80	3.80	0.00	151.9
4.100	38.05	4.39	0.00	175.7
4.200	24.81	5.21	0.00	208.4
4.300	17.36	6.35	0.00	253.9
4.400	12.83	7.75	0.00	309.9
4.500	9.90	9.89	0.00	395.5
4.600	7.75	12.82	0.00	310.1
4.700	6.35	17.35	0.00	254.1
4.800	5.21	24.78	0.00	208.5
4.900	4.39	37.99	0.00	175.7
5.000	3.80	42.00	0.00	152.2
5.000	3.80	3.80	0.00	152.2
5.100	37.99	4.39	0.00	175.7
5.200	24.78	5.21	0.00	208.5
5.300	17.35	6.35	0.00	254.1
5.400	12.82	7.75	0.00	310.1
5.500	9.90	9.89	0.00	395.6
5.600	7.75	12.83	0.00	309.9
5.700	6.35	17.36	0.00	253.9
5.800	5.21	24.81	0.00	208.4
5.900	4.39	38.05	0.00	175.7
6.000	3.80	42.20	0.00	152.1
6.000	3.80	3.80	0.00	151.9
6.100	37.60	4.39	0.00	175.4
6.200	24.69	5.20	0.00	208.0
6.300	17.36	6.34	0.00	253.7
6.400	12.87	7.74	0.00	309.6
6.500	9.95	9.85	0.00	394.1
6.600	7.76	12.80	0.00	310.5
6.700	6.36	17.31	0.00	254.4
6.800	5.24	24.75	0.00	209.5
6.900	4.42	38.04	0.00	176.8
7.000	3.83	42.26	0.00	153.2

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.83	3.80	0.00	152.1
7.100	30.41	4.38	0.00	175.3
7.200	20.78	5.19	0.00	207.5
7.300	15.25	6.32	0.00	252.6
7.400	11.77	7.83	0.00	313.1
7.500	9.46	9.76	0.00	378.2
7.600	7.67	12.63	0.00	306.9
7.700	6.30	17.08	0.00	252.0
7.800	5.11	24.58	0.00	204.2
7.900	4.28	38.75	0.00	171.3
8.000	3.70	43.05	0.00	148.1
8.000	3.70	3.53	0.00	141.1
8.100	132.05	3.98	0.00	159.0
8.200	48.03	4.60	0.00	183.9
8.300	26.91	5.37	0.00	214.9
8.400	17.78	6.39	0.00	255.8
8.500	12.88	7.78	0.00	311.1
8.600	9.85	9.74	0.00	389.6
8.700	7.60	13.10	0.00	304.0
8.800	5.96	20.27	0.00	238.5
8.900	4.82	31.74	0.00	193.0
9.000	4.00	999.00	0.00	160.1



3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2
3.100 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
3.400 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
3.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
3.600 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
3.700 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
3.800 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
3.900 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S02

Rating Type:

OPER.

Rating Live Load:

5C1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
4.100 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2
4.200 77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
4.300 87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
4.400 93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
4.500 96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
4.600 94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
4.700 88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
4.800 78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
4.900 64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
5.000 47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
5.000 47.4	279.4	279.4	-279.4	-279.4	311.4	311.4	-247.4	-2
5.100 64.8	279.4	279.4	-279.4	-279.4	294.0	294.0	-264.8	-2
5.200 78.5	279.4	279.4	-279.4	-279.4	280.3	280.3	-278.5	-2
5.300 88.2	279.4	279.4	-279.4	-279.4	270.6	270.6	-288.2	-2
5.400 94.1	279.4	279.4	-279.4	-279.4	264.7	264.7	-294.1	-2
5.500 96.1	279.4	279.4	-279.4	-279.4	262.7	262.7	-296.1	-2
5.600 93.9	279.4	279.4	-279.4	-279.4	264.9	264.9	-293.9	-2
5.700 87.8	279.4	279.4	-279.4	-279.4	271.0	271.0	-287.8	-2
5.800 77.9	279.4	279.4	-279.4	-279.4	280.9	280.9	-277.9	-2
5.900 64.0	279.4	279.4	-279.4	-279.4	294.8	294.8	-264.0	-2



6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.000 46.3	279.4	279.4	-279.4	-279.4	312.5	312.5	-246.3	-2
6.100 64.2	279.4	279.4	-279.4	-279.4	294.6	294.6	-264.2	-2
6.200 78.3	279.4	279.4	-279.4	-279.4	280.5	280.5	-278.3	-2
6.300 88.4	279.4	279.4	-279.4	-279.4	270.4	270.4	-288.4	-2
6.400 94.7	279.4	279.4	-279.4	-279.4	264.1	264.1	-294.7	-2
6.500 97.1	279.4	279.4	-279.4	-279.4	261.7	261.7	-297.1	-2
6.600 95.3	279.4	279.4	-279.4	-279.4	263.5	263.5	-295.3	-2
6.700 89.6	279.4	279.4	-279.4	-279.4	269.2	269.2	-289.6	-2
6.800 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
6.900 66.6	279.4	279.4	-279.4	-279.4	292.2	292.2	-266.6	-2
7.000 49.4	279.4	279.4	-279.4	-279.4	309.4	309.4	-249.4	-2



9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.81	55.78	4.81	55.78	0.00	192.4
1.200	2.82	28.81	2.82	28.81	0.00	112.9
1.300	2.31	19.57	2.31	19.57	0.00	92.5
1.400	2.20	14.77	2.20	14.77	0.00	88.0
1.500	2.28	11.73	2.28	11.73	0.00	91.3
1.600	2.55	9.58	2.55	9.58	0.00	102.1
1.700	3.19	7.94	3.19	7.94	0.00	127.7
1.800	4.82	6.61	4.82	6.61	0.00	193.0
1.900	11.31	5.33	11.31	5.33	0.00	213.2
2.000	24.62	2.93	24.62	2.93	0.00	117.3
2.000	24.62	2.93	24.62	2.93	0.00	117.3
2.100	12.77	4.34	12.77	4.34	0.00	173.8
2.200	5.53	5.30	5.53	5.30	0.00	211.9
2.300	3.63	6.02	3.63	6.02	0.00	145.3
2.400	3.03	6.70	3.03	6.70	0.00	121.3
2.500	2.84	7.18	2.84	7.18	0.00	113.6
2.600	2.96	7.40	2.96	7.40	0.00	118.5
2.700	3.44	7.20	3.44	7.20	0.00	137.6
2.800	4.78	6.68	4.78	6.68	0.00	191.0
2.900	9.89	5.80	9.89	5.80	0.00	232.1
3.000	17.31	3.75	17.31	3.75	0.00	150.2
3.000	17.31	3.75	17.31	3.75	0.00	150.2
3.100	8.91	5.68	8.91	5.68	0.00	227.2
3.200	4.57	6.60	4.57	6.60	0.00	183.0
3.300	3.36	7.29	3.36	7.29	0.00	134.6
3.400	2.93	7.83	2.93	7.83	0.00	117.2
3.500	2.81	8.06	2.81	8.06	0.00	112.5
3.600	2.96	7.90	2.96	7.90	0.00	118.4
3.700	3.44	7.35	3.44	7.35	0.00	137.6
3.800	4.78	6.67	4.78	6.67	0.00	191.0
3.900	9.87	5.73	9.87	5.73	0.00	229.0
4.000	22.28	3.70	22.28	3.70	0.00	148.1

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	22.28	3.70	22.28	3.70	0.00	148.1
4.100	9.80	5.71	9.80	5.71	0.00	228.5
4.200	4.77	6.65	4.77	6.65	0.00	190.8
4.300	3.44	7.34	3.44	7.34	0.00	137.8
4.400	2.97	7.88	2.97	7.88	0.00	118.7
4.500	2.85	8.09	2.85	8.09	0.00	113.8
4.600	2.97	7.91	2.97	7.91	0.00	118.7
4.700	3.44	7.35	3.44	7.35	0.00	137.7
4.800	4.77	6.67	4.77	6.67	0.00	190.9
4.900	9.84	5.74	9.84	5.74	0.00	229.4
5.000	22.10	3.72	22.10	3.72	0.00	148.7
5.000	22.10	3.72	22.10	3.72	0.00	148.7
5.100	9.84	5.74	9.84	5.74	0.00	229.4
5.200	4.77	6.67	4.77	6.67	0.00	190.9
5.300	3.44	7.35	3.44	7.35	0.00	137.7
5.400	2.97	7.89	2.97	7.89	0.00	118.7
5.500	2.85	8.09	2.85	8.09	0.00	113.8
5.600	2.97	7.91	2.97	7.91	0.00	118.7
5.700	3.44	7.34	3.44	7.34	0.00	137.8
5.800	4.77	6.65	4.77	6.65	0.00	190.8
5.900	9.80	5.71	9.80	5.71	0.00	228.5
6.000	23.22	3.70	23.22	3.70	0.00	148.2
6.000	23.22	3.70	23.22	3.70	0.00	148.2
6.100	9.87	5.73	9.87	5.73	0.00	229.0
6.200	4.78	6.67	4.78	6.67	0.00	191.0
6.300	3.44	7.35	3.44	7.35	0.00	137.6
6.400	2.96	7.90	2.96	7.90	0.00	118.4
6.500	2.81	8.06	2.81	8.06	0.00	112.5
6.600	2.93	7.86	2.93	7.86	0.00	117.2
6.700	3.36	7.29	3.36	7.29	0.00	134.6
6.800	4.57	6.60	4.57	6.60	0.00	183.0
6.900	8.91	5.68	8.91	5.68	0.00	227.2
7.000	17.31	3.76	17.31	3.76	0.00	150.2

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S02

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	17.31	3.76	17.31	3.76	0.00	150.2
7.100	9.89	5.80	9.89	5.80	0.00	232.1
7.200	4.78	6.68	4.78	6.68	0.00	191.0
7.300	3.44	7.20	3.44	7.20	0.00	137.6
7.400	2.96	7.40	2.96	7.40	0.00	118.5
7.500	2.84	7.18	2.84	7.18	0.00	113.6
7.600	3.03	6.70	3.03	6.70	0.00	121.3
7.700	3.63	6.02	3.63	6.02	0.00	145.3
7.800	5.53	5.30	5.53	5.30	0.00	211.9
7.900	12.77	4.34	12.77	4.34	0.00	173.8
8.000	24.62	2.93	24.62	2.93	0.00	117.3
8.000	24.62	2.93	24.62	2.93	0.00	117.3
8.100	11.31	5.33	11.31	5.33	0.00	213.2
8.200	4.82	6.61	4.82	6.61	0.00	193.0
8.300	3.19	7.94	3.19	7.94	0.00	127.7
8.400	2.55	9.58	2.55	9.58	0.00	102.1
8.500	2.28	11.73	2.28	11.73	0.00	91.3
8.600	2.20	14.77	2.20	14.77	0.00	88.0
8.700	2.31	19.57	2.31	19.57	0.00	92.5
8.800	2.82	28.81	2.82	28.81	0.00	112.9
8.900	4.81	55.78	4.81	55.78	0.00	192.4
9.000	999.00	999.00	999.00	999.00	0.00	999.0

BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction SS  
 Year of Construction 1959  
 Roadway Width 32.000  
 Number of Spans 8

Live Load Distribution Factor 1.272

Second Live Load Dist. Factor 1.272

Comments:

Member I. D.	S03					Symmetry:
Span Length:	Span 1	Span 2	Span 3	Span 4	Span 5	
	23.917	23.917	23.917	23.917	23.917	
	Span 6	Span 7	Span 8	Span 9	Span 10	
	23.917	23.917	23.917	0.000	0.000	

Range Length -- Non-Composite:							
Span No.	Range No.	Range Length	Section Left	Section Right	Section Variation	Hinge Location No. 1	Hinge Location No. 2
1	1	23.917	1	0		0.0	0.0
2	1	23.917	1	0		0.0	0.0
3	1	23.917	1	0		0.0	0.0
4	1	23.917	1	0		0.0	0.0
5	1	23.917	1	0		0.0	0.0
6	1	23.917	1	0		0.0	0.0
7	1	23.917	1	0		0.0	0.0
8	1	23.917	1	0		0.0	0.0

Superimposed Dead Load:						
Span No.	Load Type	Dist. from Left Supp.	Distributed Load (lbs/ft)			Concentrated Load (kips)
			Left	Right	Length	
1	W	0.000	688.0	688.0	23.917	0.0
1	P	11.958	0.0	0.0	0.000	0.1
2	W	0.000	688.0	688.0	23.917	0.0
2	P	11.958	0.0	0.0	0.000	0.1
3	W	0.000	688.0	688.0	23.917	0.0
3	P	11.958	0.0	0.0	0.000	0.1
4	W	0.000	688.0	688.0	23.917	0.0
4	P	11.958	0.0	0.0	0.000	0.1
5	W	0.000	688.0	688.0	23.917	0.0
5	P	11.958	0.0	0.0	0.000	0.1
6	W	0.000	688.0	688.0	23.917	0.0
6	P	11.958	0.0	0.0	0.000	0.1
7	W	0.000	688.0	688.0	23.917	0.0
7	P	11.958	0.0	0.0	0.000	0.1
8	W	0.000	688.0	688.0	23.917	0.0
8	P	11.958	0.0	0.0	0.000	0.1

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.



## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.		S03				
Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
1.000	20.99	19.76	0.40	0.0	0.0	33.
1.100	20.99	19.76	0.40	0.0	0.0	33.
1.200	20.99	19.76	0.40	0.0	0.0	33.
1.300	20.99	19.76	0.40	0.0	0.0	33.
1.400	20.99	19.76	0.40	0.0	0.0	33.
1.500	20.99	19.76	0.40	0.0	0.0	33.
1.600	20.99	19.76	0.40	0.0	0.0	33.
1.700	20.99	19.76	0.40	0.0	0.0	33.
1.800	20.99	19.76	0.40	0.0	0.0	33.
1.900	20.99	19.76	0.40	0.0	0.0	33.
2.000	20.99	19.76	0.40	0.0	0.0	33.
2.000	20.99	19.76	0.40	0.0	0.0	33.
2.100	20.99	19.76	0.40	0.0	0.0	33.
2.200	20.99	19.76	0.40	0.0	0.0	33.
2.300	20.99	19.76	0.40	0.0	0.0	33.
2.400	20.99	19.76	0.40	0.0	0.0	33.
2.500	20.99	19.76	0.40	0.0	0.0	33.
2.600	20.99	19.76	0.40	0.0	0.0	33.
2.700	20.99	19.76	0.40	0.0	0.0	33.
2.800	20.99	19.76	0.40	0.0	0.0	33.
2.900	20.99	19.76	0.40	0.0	0.0	33.
3.000	20.99	19.76	0.40	0.0	0.0	33.
3.000	20.99	19.76	0.40	0.0	0.0	33.
3.100	20.99	19.76	0.40	0.0	0.0	33.
3.200	20.99	19.76	0.40	0.0	0.0	33.
3.300	20.99	19.76	0.40	0.0	0.0	33.
3.400	20.99	19.76	0.40	0.0	0.0	33.
3.500	20.99	19.76	0.40	0.0	0.0	33.
3.600	20.99	19.76	0.40	0.0	0.0	33.
3.700	20.99	19.76	0.40	0.0	0.0	33.
3.800	20.99	19.76	0.40	0.0	0.0	33.
3.900	20.99	19.76	0.40	0.0	0.0	33.
4.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

S03

Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
4.000	20.99	19.76	0.40	0.0	0.0	33.
4.100	20.99	19.76	0.40	0.0	0.0	33.
4.200	20.99	19.76	0.40	0.0	0.0	33.
4.300	20.99	19.76	0.40	0.0	0.0	33.
4.400	20.99	19.76	0.40	0.0	0.0	33.
4.500	20.99	19.76	0.40	0.0	0.0	33.
4.600	20.99	19.76	0.40	0.0	0.0	33.
4.700	20.99	19.76	0.40	0.0	0.0	33.
4.800	20.99	19.76	0.40	0.0	0.0	33.
4.900	20.99	19.76	0.40	0.0	0.0	33.
5.000	20.99	19.76	0.40	0.0	0.0	33.
5.000	20.99	19.76	0.40	0.0	0.0	33.
5.100	20.99	19.76	0.40	0.0	0.0	33.
5.200	20.99	19.76	0.40	0.0	0.0	33.
5.300	20.99	19.76	0.40	0.0	0.0	33.
5.400	20.99	19.76	0.40	0.0	0.0	33.
5.500	20.99	19.76	0.40	0.0	0.0	33.
5.600	20.99	19.76	0.40	0.0	0.0	33.
5.700	20.99	19.76	0.40	0.0	0.0	33.
5.800	20.99	19.76	0.40	0.0	0.0	33.
5.900	20.99	19.76	0.40	0.0	0.0	33.
6.000	20.99	19.76	0.40	0.0	0.0	33.
6.000	20.99	19.76	0.40	0.0	0.0	33.
6.100	20.99	19.76	0.40	0.0	0.0	33.
6.200	20.99	19.76	0.40	0.0	0.0	33.
6.300	20.99	19.76	0.40	0.0	0.0	33.
6.400	20.99	19.76	0.40	0.0	0.0	33.
6.500	20.99	19.76	0.40	0.0	0.0	33.
6.600	20.99	19.76	0.40	0.0	0.0	33.
6.700	20.99	19.76	0.40	0.0	0.0	33.
6.800	20.99	19.76	0.40	0.0	0.0	33.
6.900	20.99	19.76	0.40	0.0	0.0	33.
7.000	20.99	19.76	0.40	0.0	0.0	33.

## SECTION DATA ( ASD/LFD )

Structure I. D.

HAM500

Member I. D.

S03

Span	Height	Web Depth	Web Thk.	Effective Width	Slab Thk.	Fy
	(in.)	(in.)	(in.)	(in.)	(in.)	(ksi)
7.000	20.99	19.76	0.40	0.0	0.0	33.
7.100	20.99	19.76	0.40	0.0	0.0	33.
7.200	20.99	19.76	0.40	0.0	0.0	33.
7.300	20.99	19.76	0.40	0.0	0.0	33.
7.400	20.99	19.76	0.40	0.0	0.0	33.
7.500	20.99	19.76	0.40	0.0	0.0	33.
7.600	20.99	19.76	0.40	0.0	0.0	33.
7.700	20.99	19.76	0.40	0.0	0.0	33.
7.800	20.99	19.76	0.40	0.0	0.0	33.
7.900	20.99	19.76	0.40	0.0	0.0	33.
8.000	20.99	19.76	0.40	0.0	0.0	33.
8.000	20.99	19.76	0.40	0.0	0.0	33.
8.100	20.99	19.76	0.40	0.0	0.0	33.
8.200	20.99	19.76	0.40	0.0	0.0	33.
8.300	20.99	19.76	0.40	0.0	0.0	33.
8.400	20.99	19.76	0.40	0.0	0.0	33.
8.500	20.99	19.76	0.40	0.0	0.0	33.
8.600	20.99	19.76	0.40	0.0	0.0	33.
8.700	20.99	19.76	0.40	0.0	0.0	33.
8.800	20.99	19.76	0.40	0.0	0.0	33.
8.900	20.99	19.76	0.40	0.0	0.0	33.
9.000	20.99	19.76	0.40	0.0	0.0	33.

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S03

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend		-Bend	
							Top	Bott.	Top	Bott.
1.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
1.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
2.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
3.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S03

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend		-Bend	
					Top	Bott.	Top	Bott.	Top	Bott.
4.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
4.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
5.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
6.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

SECTION STRENGTH ( ASD/LFD )

Structure I. D. HAM500

Member I. D. S03

Span	Section Gross	Area Net	Neutral Axis		Moment of Inertia		Section Modulus			
			Top	Bott.	+Bend	-Bend	+Bend Top	+Bend Bott.	-Bend Top	-Bend Bott.
7.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
7.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.100	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.200	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.300	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.400	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.500	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.600	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.700	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.800	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
8.900	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0
9.000	18.30	18.30	10.47	10.47	1330.0	1330.0	127.0	127.0	127.0	127.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	13.7	69.06 L	43.62	53.12	33.55
1.200	2.1	23.5	111.79 L	74.30	85.99	57.16
1.300	2.6	29.3	131.19 L	94.42	100.92	72.63
1.400	2.8	31.2	131.09 L	102.53	100.84	78.87
1.500	2.6	29.1	126.40 L	101.45	97.23	78.03
1.600	2.0	22.8	115.03 L	90.18	88.49	69.37
1.700	1.1	12.6	98.91 L	72.00	76.08	55.39
1.800	-0.2	-1.5	61.69 L	47.01	47.46	36.16
1.900	-1.8	-19.6	-59.93 R	-60.44	-46.10	-46.49
2.000	-3.8	-41.7	-112.30 L	-100.93	-86.38	-77.64
2.000	-3.8	-41.7	-112.30 L	-100.93	-86.38	-77.64
2.100	-2.1	-22.7	-75.31 R	-62.54	-57.93	-48.11
2.200	-0.7	-7.6	66.16 R	45.53	50.89	35.02
2.300	0.3	3.5	93.24 R	67.74	71.73	52.11
2.400	0.9	10.7	103.09 R	80.84	79.30	62.18
2.500	1.2	13.9	98.70 L	86.01	75.92	66.16
2.600	1.1	12.9	101.20 L	81.04	77.84	62.34
2.700	0.7	8.0	90.72 L	68.31	69.78	52.54
2.800	-0.1	-0.9	62.79 L	47.65	48.30	36.66
2.900	-1.3	-13.7	-60.76 L	-56.30	-46.74	-43.31
3.000	-2.8	-30.5	-106.16 L	-94.15	-81.66	-72.42
3.000	-2.8	-30.5	-106.16 L	-94.15	-81.66	-72.42
3.100	-1.2	-12.9	-61.87 R	-56.08	-47.59	-43.14
3.200	0.0	0.7	63.06 R	47.85	48.51	36.81
3.300	0.9	10.4	90.77 R	69.19	69.83	53.22
3.400	1.4	16.1	101.38 R	81.95	77.98	63.04
3.500	1.6	18.0	97.81 L	86.88	75.24	66.83
3.600	1.4	15.5	101.24 L	81.67	77.88	62.82
3.700	0.8	9.2	90.59 L	68.64	69.69	52.80
3.800	-0.1	-1.1	62.82 L	47.60	48.32	36.62
3.900	-1.4	-15.4	-60.83 L	-56.80	-46.79	-43.69
4.000	-3.0	-33.5	-105.72 L	-95.14	-81.33	-73.18

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
4.000	-3.0	-33.5	-105.72 L	-95.14	-81.33	-73.18
4.100	-1.4	-15.6	-60.91 R	-56.91	-46.85	-43.78
4.200	-0.2	-1.5	62.84 R	46.93	48.34	36.10
4.300	0.7	8.6	90.60 R	68.40	69.69	52.62
4.400	1.3	14.7	101.25 R	81.33	77.89	62.56
4.500	1.5	16.9	97.75 L	86.44	75.19	66.50
4.600	1.3	14.9	101.24 L	81.41	77.88	62.62
4.700	0.8	9.0	90.59 L	68.55	69.68	52.73
4.800	-0.1	-0.9	62.82 L	47.68	48.33	36.68
4.900	-1.3	-14.8	-60.84 L	-56.56	-46.80	-43.51
5.000	-2.9	-32.5	-105.69 R	-94.74	-81.30	-72.88
5.000	-2.9	-32.5	-105.69 R	-94.74	-81.30	-72.88
5.100	-1.3	-14.8	-60.84 R	-56.59	-46.80	-43.53
5.200	-0.1	-0.9	62.82 R	47.16	48.33	36.28
5.300	0.8	9.0	90.59 R	68.55	69.68	52.73
5.400	1.3	14.9	101.24 R	81.41	77.88	62.62
5.500	1.5	16.9	97.75 R	86.44	75.19	66.50
5.600	1.3	14.7	101.25 L	81.33	77.89	62.56
5.700	0.7	8.6	90.60 L	68.40	69.69	52.62
5.800	-0.2	-1.5	62.84 L	47.45	48.34	36.50
5.900	-1.4	-15.6	-60.91 L	-56.89	-46.85	-43.76
6.000	-3.0	-33.5	-105.71 L	-95.14	-81.32	-73.18
6.000	-3.0	-33.5	-105.71 L	-95.14	-81.32	-73.18
6.100	-1.4	-15.4	-60.83 R	-56.83	-46.79	-43.72
6.200	-0.1	-1.1	62.82 R	47.08	48.32	36.21
6.300	0.8	9.2	90.59 R	68.64	69.69	52.80
6.400	1.4	15.5	101.24 R	81.67	77.88	62.82
6.500	1.6	18.0	97.81 R	86.88	75.24	66.83
6.600	1.4	16.1	101.37 L	81.95	77.98	63.04
6.700	0.9	10.4	90.77 L	69.19	69.83	53.22
6.800	0.0	0.7	63.06 L	48.37	48.51	37.21
6.900	-1.2	-12.9	-61.87 L	-56.05	-47.59	-43.12
7.000	-2.8	-30.5	-106.03 L	-94.15	-81.56	-72.42



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane	
7.000	-2.8	-30.5	-106.03	L	-94.15	-81.56	-72.42
7.100	-1.3	-13.7	-60.76	R	-56.32	-46.74	-43.33
7.200	-0.1	-0.9	62.79	R	47.13	48.30	36.25
7.300	0.7	8.0	90.72	R	68.31	69.78	52.55
7.400	1.1	12.9	101.20	R	81.04	77.84	62.34
7.500	1.2	13.9	98.70	R	86.01	75.92	66.16
7.600	0.9	10.7	103.09	L	80.84	79.30	62.18
7.700	0.3	3.5	93.24	L	67.74	71.73	52.11
7.800	-0.7	-7.6	66.16	L	45.53	50.89	35.02
7.900	-2.1	-22.7	-75.31	L	-62.52	-57.93	-48.09
8.000	-3.8	-41.7	-112.26	R	-100.93	-86.35	-77.64
8.000	-3.8	-41.7	-112.26	R	-100.93	-86.35	-77.64
8.100	-1.8	-19.6	-59.93	L	-60.46	-46.10	-46.51
8.200	-0.2	-1.5	61.69	R	46.48	47.46	35.76
8.300	1.1	12.6	98.91	R	72.00	76.08	55.39
8.400	2.0	22.8	115.03	R	90.18	88.49	69.37
8.500	2.6	29.1	126.40	R	101.45	97.23	78.03
8.600	2.8	31.2	131.09	R	102.53	100.84	78.87
8.700	2.6	29.3	131.19	R	94.42	100.92	72.63
8.800	2.1	23.5	111.79	R	74.30	85.99	57.16
8.900	1.2	13.7	69.06	R	43.62	53.12	33.55
9.000	0.0	0.0	0.00	R	0.00	0.00	0.00



4	3.000	180.4C	161.2	-161.2	-180.4C	200.3	181.1	-141.2	-160.
4	3.000	180.4C	161.2	-161.2	-180.4C	200.3	181.1	-141.2	-160.
9	3.100	180.4C	161.2	-161.2	-180.4C	188.8	169.7	-152.7	-171.
8	3.200	180.4C	161.2	-161.2	-180.4C	179.9	160.8	-161.6	-180.
2	3.300	180.4C	161.2	-161.2	-180.4C	173.6	154.4	-168.0	-187.
9	3.400	180.4C	161.2	-161.2	-180.4C	169.9	150.7	-171.7	-190.
1	3.500	180.4C	161.2	-161.2	-180.4C	168.7	149.5	-172.9	-192.
5	3.600	180.4C	161.2	-161.2	-180.4C	170.3	151.1	-171.3	-190.
4	3.700	180.4C	161.2	-161.2	-180.4C	174.4	155.2	-167.2	-186.
6	3.800	180.4C	161.2	-161.2	-180.4C	181.1	161.9	-160.4	-179.
3	3.900	180.4C	161.2	-161.2	-180.4C	190.4	171.3	-151.1	-170.
4	4.000	180.4C	161.2	-161.2	-180.4C	202.3	183.1	-139.3	-158.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

INV.

Rating Live Load:

HS20

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	180.4C	161.2	-161.2	-180.4C	202.3	183.1	-139.3	-158.
4.100	180.4C	161.2	-161.2	-180.4C	190.6	171.4	-151.0	-170.
4.200	180.4C	161.2	-161.2	-180.4C	181.4	162.2	-160.2	-179.
4.300	180.4C	161.2	-161.2	-180.4C	174.8	155.6	-166.8	-186.
4.400	180.4C	161.2	-161.2	-180.4C	170.8	151.6	-170.8	-190.
4.500	180.4C	161.2	-161.2	-180.4C	169.3	150.1	-172.2	-191.
4.600	180.4C	161.2	-161.2	-180.4C	170.7	151.5	-170.9	-190.
4.700	180.4C	161.2	-161.2	-180.4C	174.5	155.3	-167.0	-186.
4.800	180.4C	161.2	-161.2	-180.4C	181.0	161.8	-160.6	-179.
4.900	180.4C	161.2	-161.2	-180.4C	190.0	170.9	-151.5	-170.
5.000	180.4C	161.2	-161.2	-180.4C	201.7	182.5	-139.9	-159.
5.000	180.4C	161.2	-161.2	-180.4C	201.7	182.5	-139.9	-159.
5.100	180.4C	161.2	-161.2	-180.4C	190.0	170.9	-151.5	-170.
5.200	180.4C	161.2	-161.2	-180.4C	181.0	161.8	-160.6	-179.
5.300	180.4C	161.2	-161.2	-180.4C	174.5	155.3	-167.0	-186.
5.400	180.4C	161.2	-161.2	-180.4C	170.7	151.5	-170.9	-190.
5.500	180.4C	161.2	-161.2	-180.4C	169.3	150.1	-172.2	-191.
5.600	180.4C	161.2	-161.2	-180.4C	170.8	151.6	-170.8	-190.
5.700	180.4C	161.2	-161.2	-180.4C	174.8	155.6	-166.8	-186.
5.800	180.4C	161.2	-161.2	-180.4C	181.4	162.2	-160.2	-179.
5.900	180.4C	161.2	-161.2	-180.4C	190.6	171.4	-151.0	-170.

4	6.000	180.4C	161.2	-161.2	-180.4C	202.3	183.1	-139.3	-158.
4	6.000	180.4C	161.2	-161.2	-180.4C	202.3	183.1	-139.3	-158.
3	6.100	180.4C	161.2	-161.2	-180.4C	190.4	171.3	-151.1	-170.
6	6.200	180.4C	161.2	-161.2	-180.4C	181.1	161.9	-160.4	-179.
4	6.300	180.4C	161.2	-161.2	-180.4C	174.4	155.2	-167.2	-186.
5	6.400	180.4C	161.2	-161.2	-180.4C	170.3	151.1	-171.3	-190.
1	6.500	180.4C	161.2	-161.2	-180.4C	168.7	149.5	-172.9	-192.
9	6.600	180.4C	161.2	-161.2	-180.4C	169.9	150.7	-171.7	-190.
2	6.700	180.4C	161.2	-161.2	-180.4C	173.6	154.4	-168.0	-187.
8	6.800	180.4C	161.2	-161.2	-180.4C	179.9	160.8	-161.6	-180.
9	6.900	180.4C	161.2	-161.2	-180.4C	188.8	169.7	-152.7	-171.
4	7.000	180.4C	161.2	-161.2	-180.4C	200.3	181.1	-141.2	-160.



9.000 180.4C 161.2 -161.2 -180.4C 180.4 161.2 -161.2 -180.  
4

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	HS 999.00 999.0
1.100	2.48	29.42	2.20	32.74	HS 44.09 79.4
1.200	1.48	15.26	1.30	16.92	HS 26.10 47.0
1.300	1.23	10.40	1.08	11.50	HS 21.66 39.0
1.400	1.22	7.85	1.07	8.68	HS 21.49 38.7
1.500	1.28	6.23	1.12	6.90	HS 22.49 40.5
1.600	1.44	5.08	1.27	5.63	HS 25.43 45.8
1.700	1.74	4.19	1.55	4.66	HS 30.93 55.7
1.800	2.94	3.46	2.63	3.88	HS 52.59 94.7
1.900	8.43	2.45	7.60	2.77	HS 49.09 88.4
2.000	13.40	1.19	12.16	1.36	HS 23.85 42.9
2.000	13.40	1.19	12.16	1.36	HS 23.85 42.9
2.100	8.20	1.94	7.39	2.20	HS 38.87 70.0
2.200	2.80	2.51	2.51	2.82	HS 50.18 90.3
2.300	1.91	3.16	1.71	3.53	HS 34.09 61.4
2.400	1.68	4.09	1.50	4.56	HS 29.93 53.9
2.500	1.74	5.58	1.54	6.21	HS 30.83 55.5
2.600	1.70	5.47	1.51	6.09	HS 30.20 54.4
2.700	1.93	4.30	1.72	4.79	HS 34.40 61.9
2.800	2.88	3.45	2.58	3.87	HS 51.54 92.8
2.900	7.05	2.51	6.34	2.82	HS 50.10 90.2
3.000	8.97	1.33	8.11	1.51	HS 26.61 47.9
3.000	8.97	1.33	8.11	1.51	HS 26.61 47.9
3.100	6.81	2.47	6.12	2.78	HS 49.37 88.9
3.200	2.85	3.45	2.55	3.86	HS 50.98 91.8
3.300	1.91	4.31	1.70	4.81	HS 34.02 61.2
3.400	1.67	5.55	1.49	6.16	HS 29.72 53.5
3.500	1.72	7.35	1.53	8.17	HS 30.57 55.0
3.600	1.68	5.58	1.49	6.20	HS 29.84 53.7
3.700	1.92	4.33	1.71	4.83	HS 34.27 61.7
3.800	2.88	3.45	2.58	3.86	HS 51.56 92.8
3.900	7.23	2.48	6.50	2.80	HS 49.69 89.4
4.000	11.78	1.32	10.66	1.50	HS 26.34 47.4



## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber -bend	bottom fiber +bend		
4.000	11.78	1.32	10.66	1.50	HS 26.34	47.4
4.100	7.13	2.48	6.41	2.79	HS 49.58	89.3
4.200	2.89	3.44	2.58	3.86	HS 51.63	92.9
4.300	1.93	4.32	1.72	4.82	HS 34.35	61.8
4.400	1.69	5.56	1.50	6.18	HS 29.94	53.9
4.500	1.73	7.25	1.54	8.06	HS 30.72	55.3
4.600	1.69	5.57	1.50	6.19	HS 29.92	53.9
4.700	1.93	4.33	1.72	4.82	HS 34.30	61.7
4.800	2.88	3.45	2.58	3.87	HS 51.51	92.7
4.900	7.14	2.49	6.42	2.81	HS 49.82	89.7
5.000	11.55	1.32	10.45	1.50	HS 26.48	47.7
5.000	11.55	1.32	10.45	1.50	HS 26.48	47.7
5.100	7.03	2.49	6.32	2.81	HS 49.82	89.7
5.200	2.88	3.45	2.58	3.87	HS 51.51	92.7
5.300	1.93	4.33	1.72	4.82	HS 34.30	61.7
5.400	1.69	5.57	1.50	6.19	HS 29.92	53.9
5.500	1.73	7.25	1.54	8.06	HS 30.72	55.3
5.600	1.69	5.56	1.50	6.18	HS 29.94	53.9
5.700	1.93	4.32	1.72	4.82	HS 34.35	61.8
5.800	2.89	3.44	2.58	3.86	HS 51.63	92.9
5.900	7.25	2.48	6.52	2.79	HS 49.58	89.3
6.000	11.78	1.32	10.66	1.50	HS 26.35	47.4
6.000	11.78	1.32	10.66	1.50	HS 26.35	47.4
6.100	7.11	2.48	6.39	2.80	HS 49.69	89.4
6.200	2.88	3.45	2.58	3.86	HS 51.56	92.8
6.300	1.92	4.33	1.71	4.83	HS 34.27	61.7
6.400	1.68	5.58	1.49	6.20	HS 29.84	53.7
6.500	1.72	7.35	1.53	8.17	HS 30.57	55.0
6.600	1.68	5.55	1.49	6.16	HS 29.72	53.5
6.700	1.91	4.31	1.70	4.81	HS 34.02	61.2
6.800	2.85	3.45	2.55	3.86	HS 50.98	91.8
6.900	6.92	2.47	6.22	2.78	HS 49.37	88.9
7.000	8.97	1.33	8.11	1.51	HS 26.64	48.0

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.

Rating Live Load: HS20

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	-bend	+bend	-bend		
7.000	8.97	1.33	8.11	1.51	HS 26.64	48.0
7.100	6.94	2.51	6.24	2.82	HS 50.10	90.2
7.200	2.88	3.45	2.58	3.87	HS 51.54	92.8
7.300	1.93	4.30	1.72	4.79	HS 34.40	61.9
7.400	1.70	5.47	1.51	6.09	HS 30.20	54.4
7.500	1.74	5.58	1.54	6.21	HS 30.83	55.5
7.600	1.68	4.09	1.50	4.56	HS 29.93	53.9
7.700	1.91	3.16	1.71	3.53	HS 34.09	61.4
7.800	2.80	2.51	2.51	2.82	HS 50.18	90.3
7.900	8.36	1.94	7.53	2.20	HS 38.87	70.0
8.000	13.40	1.19	12.16	1.36	HS 23.86	43.0
8.000	13.40	1.19	12.16	1.36	HS 23.86	43.0
8.100	8.28	2.45	7.45	2.77	HS 49.07	88.3
8.200	2.94	3.46	2.63	3.88	HS 52.59	94.7
8.300	1.74	4.19	1.55	4.66	HS 30.93	55.7
8.400	1.44	5.08	1.27	5.63	HS 25.43	45.8
8.500	1.28	6.23	1.12	6.90	HS 22.49	40.5
8.600	1.22	7.85	1.07	8.68	HS 21.49	38.7
8.700	1.23	10.40	1.08	11.50	HS 21.66	39.0
8.800	1.48	15.26	1.30	16.92	HS 26.10	47.0
8.900	2.48	29.42	2.20	32.74	HS 44.09	79.4
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
1.000	0.6	6.6	34.71	27.16	26.70	20.89
1.100	0.4	4.9	28.88	23.25	22.21	17.88
1.200	0.3	3.3	23.37	19.54	17.98	15.03
1.300	0.1	1.6	18.28	16.05	14.06	12.35
1.400	0.0	-0.1	13.70	12.82	10.54	9.86
1.500	-0.2	-1.7	-17.10	-15.53	-13.16	-11.95
1.600	-0.3	-3.5	-20.41	-18.56	-15.70	-14.27
1.700	-0.5	-5.1	-25.37	-21.50	-19.52	-16.54
1.800	-0.6	-6.7	-30.85	-24.31	-23.73	-18.70
1.900	-0.8	-8.4	-35.84	-26.94	-27.57	-20.72
2.000	-0.9	-10.0	-40.27	-29.34	-30.98	-22.57
2.000	0.8	-10.0	37.28	29.08	28.68	22.37
2.100	0.6	7.1	32.69	26.19	25.14	20.15
2.200	0.5	5.5	27.47	23.07	21.13	17.75
2.300	0.3	3.8	22.82	19.82	17.55	15.24
2.400	0.2	2.2	19.05	16.54	14.66	12.72
2.500	0.0	0.5	-15.05	13.32	-11.58	10.25
2.600	-0.1	-1.2	-18.94	-16.49	-14.57	-12.69
2.700	-0.3	-2.9	-22.69	-19.75	-17.45	-15.20
2.800	-0.4	-4.5	-27.81	-22.96	-21.39	-17.66
2.900	-0.6	-6.2	-32.97	-26.00	-25.36	-20.00
3.000	-0.7	-7.8	-37.80	-28.78	-29.08	-22.14
3.000	0.7	8.2	37.61	28.93	28.93	22.25
3.100	0.6	6.5	32.74	26.12	25.18	20.09
3.200	0.4	4.9	27.56	23.04	21.20	17.72
3.300	0.3	3.2	22.61	19.80	17.39	15.23
3.400	0.1	1.6	18.84	16.51	14.49	12.70
3.500	0.0	-0.1	14.90	-13.40	11.46	-10.31
3.600	-0.2	-1.8	-18.83	-16.63	-14.48	-12.80
3.700	-0.3	-3.5	-22.60	-19.92	-17.38	-15.32
3.800	-0.5	-5.1	-27.59	-23.15	-21.22	-17.81
3.900	-0.6	-6.8	-32.76	-26.23	-25.20	-20.17
4.000	-0.8	-8.4	-37.62	-29.03	-28.94	-22.33

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact		Live Load w/o impact	
			Truck	Lane	Truck	Lane
4.000	0.7	-8.4	37.61	29.00	28.93	22.31
4.100	0.6	6.7	32.74	26.19	25.19	20.15
4.200	0.5	5.0	27.57	23.12	21.21	17.78
4.300	0.3	3.4	22.59	19.88	17.38	15.29
4.400	0.2	1.8	18.82	16.59	14.48	12.76
4.500	0.0	0.1	14.89	13.36	11.46	10.28
4.600	-0.1	-1.7	-18.82	-16.56	-14.48	-12.74
4.700	-0.3	-3.3	-22.59	-19.85	-17.38	-15.27
4.800	-0.4	-5.0	-27.57	-23.09	-21.21	-17.76
4.900	-0.6	-6.6	-32.74	-26.16	-25.19	-20.12
5.000	-0.7	-8.2	-37.61	-28.97	-28.93	-22.28
5.000	0.7	8.2	37.61	28.97	28.93	22.28
5.100	0.6	6.6	32.74	26.16	25.19	20.12
5.200	0.4	5.0	27.57	23.09	21.21	17.76
5.300	0.3	3.3	22.59	19.85	17.38	15.27
5.400	0.1	1.7	18.82	16.56	14.48	12.74
5.500	0.0	0.1	14.89	-13.36	11.46	-10.28
5.600	-0.2	-1.8	-18.82	-16.59	-14.48	-12.76
5.700	-0.3	-3.4	-22.59	-19.88	-17.38	-15.29
5.800	-0.5	-5.0	-27.57	-23.12	-21.21	-17.78
5.900	-0.6	-6.7	-32.74	-26.19	-25.19	-20.15
6.000	-0.7	-8.3	-37.61	-29.00	-28.93	-22.31
6.000	0.8	8.4	37.62	29.03	28.94	22.33
6.100	0.6	6.8	32.76	26.23	25.20	20.17
6.200	0.5	5.1	27.59	23.15	21.22	17.81
6.300	0.3	3.5	22.60	19.92	17.38	15.32
6.400	0.2	1.8	18.83	16.63	14.48	12.80
6.500	0.0	0.2	14.90	13.40	11.46	10.31
6.600	-0.1	-1.6	-18.84	-16.51	-14.49	-12.70
6.700	-0.3	-3.2	-22.61	-19.80	-17.39	-15.23
6.800	-0.4	-4.9	-27.56	-23.04	-21.20	-17.72
6.900	-0.6	-6.5	-32.74	-26.12	-25.18	-20.09
7.000	-0.7	-8.2	-37.61	-28.93	-28.93	-22.25

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-8.2	37.80	28.78	29.08	22.14
7.100	0.6	6.2	32.97	26.00	25.36	20.00
7.200	0.4	4.5	27.81	22.96	21.39	17.66
7.300	0.3	2.9	22.69	19.75	17.45	15.20
7.400	0.1	1.2	18.94	16.49	14.57	12.69
7.500	0.0	-0.5	15.05	-13.32	11.58	-10.25
7.600	-0.2	-2.2	-19.05	-16.54	-14.66	-12.72
7.700	-0.3	-3.8	-22.82	-19.82	-17.55	-15.24
7.800	-0.5	-5.5	-27.47	-23.07	-21.13	-17.75
7.900	-0.6	-7.1	-32.69	-26.19	-25.14	-20.15
8.000	-0.8	-8.8	-37.63	-29.08	-28.95	-22.37
8.000	0.9	10.0	40.27	29.34	30.98	22.57
8.100	0.8	8.4	35.84	26.94	27.57	20.72
8.200	0.6	6.7	30.85	24.31	23.73	18.70
8.300	0.5	5.1	25.37	21.50	19.52	16.54
8.400	0.3	3.5	20.41	18.56	15.70	14.27
8.500	0.2	1.8	17.10	15.53	13.16	11.95
8.600	0.0	0.1	-13.70	-12.82	-10.54	-9.86
8.700	-0.1	-1.6	-18.28	-16.05	-14.06	-12.35
8.800	-0.3	-3.3	-23.37	-19.54	-17.98	-15.03
8.900	-0.4	-4.9	-28.88	-23.25	-22.21	-17.88
9.000	-0.6	-6.6	-34.71	-27.16	-26.70	-20.89

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	90.8	-74.1	65.5
1.100	90.8	-73.0	66.6
1.200	90.8	-72.0	67.7
1.300	90.8	-70.9	68.8
1.400	90.8	-69.8	69.8
1.500	90.8	-68.7	70.9
1.600	90.8	-67.6	72.1
1.700	90.8	-66.5	73.2
1.800	90.8	-65.4	74.2
1.900	90.8	-64.3	75.3
2.000	90.8	-63.3	76.4
2.000	90.8	-63.3	64.1
2.100	90.8	-74.5	65.2
2.200	90.8	-73.4	66.2
2.300	90.8	-72.3	67.3
2.400	90.8	-71.2	68.4
2.500	90.8	-70.2	69.5
2.600	90.8	-69.0	70.6
2.700	90.8	-67.9	71.7
2.800	90.8	-66.9	72.8
2.900	90.8	-65.8	73.9
3.000	90.8	-64.7	70.2
3.000	90.8	-64.7	64.5
3.100	90.8	-74.1	65.6
3.200	90.8	-73.0	66.6
3.300	90.8	-71.9	67.7
3.400	90.8	-70.9	68.8
3.500	90.8	-69.8	69.9
3.600	90.8	-68.6	71.0
3.700	90.8	-67.5	72.1
3.800	90.8	-66.5	73.2
3.900	90.8	-65.4	74.3
4.000	90.8	-64.3	70.3

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	90.8	-64.3	64.4
4.100	90.8	-74.2	65.4
4.200	90.8	-73.1	66.5
4.300	90.8	-72.0	67.6
4.400	90.8	-71.0	68.7
4.500	90.8	-69.9	69.8
4.600	90.8	-68.7	70.9
4.700	90.8	-67.7	72.0
4.800	90.8	-66.6	73.1
4.900	90.8	-65.5	74.1
5.000	90.8	-64.4	70.3
5.000	90.8	-64.4	64.4
5.100	90.8	-74.1	65.5
5.200	90.8	-73.1	66.6
5.300	90.8	-72.0	67.7
5.400	90.8	-70.9	68.7
5.500	90.8	-69.8	69.8
5.600	90.8	-68.7	71.0
5.700	90.8	-67.6	72.0
5.800	90.8	-66.5	73.1
5.900	90.8	-65.4	74.2
6.000	90.8	-64.4	70.3
6.000	90.8	-64.4	64.3
6.100	90.8	-74.3	65.4
6.200	90.8	-73.2	66.5
6.300	90.8	-72.1	67.5
6.400	90.8	-71.0	68.6
6.500	90.8	-69.9	69.7
6.600	90.8	-68.8	70.9
6.700	90.8	-67.7	71.9
6.800	90.8	-66.6	73.0
6.900	90.8	-65.6	74.1
7.000	90.8	-64.5	70.3

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	90.8	-64.5	64.7
7.100	90.8	-73.9	65.8
7.200	90.8	-72.8	66.9
7.300	90.8	-71.7	67.9
7.400	90.8	-70.6	69.0
7.500	90.8	-69.6	70.1
7.600	90.8	-68.4	71.2
7.700	90.8	-67.3	72.3
7.800	90.8	-66.2	73.4
7.900	90.8	-65.2	74.5
8.000	90.8	-64.1	70.3
8.000	90.8	-64.1	63.3
8.100	90.8	-75.3	64.3
8.200	90.8	-74.2	65.4
8.300	90.8	-73.2	66.5
8.400	90.8	-72.1	67.6
8.500	90.8	-71.0	68.7
8.600	90.8	-69.8	69.8
8.700	90.8	-68.8	70.9
8.800	90.8	-67.7	72.0
8.900	90.8	-66.6	73.0
9.000	90.8	-65.5	70.2



## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

INV.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	31.38	1.89	HS 37.76	68.0
1.100	21.06	2.31	HS 46.14	83.1
1.200	10.81	2.90	HS 57.93	104.3
1.300	7.18	3.76	HS 75.22	135.4
1.400	5.29	5.10	HS 101.95	183.5
1.500	4.02	6.71	HS 80.37	144.7
1.600	3.31	9.78	HS 66.20	119.2
1.700	2.62	14.86	HS 52.41	94.3
1.800	2.12	25.06	HS 42.41	76.3
1.900	1.79	54.66	HS 35.90	64.6
2.000	1.57	120.79	HS 31.42	56.5
2.000	1.57	1.72	HS 31.42	56.5
2.100	23.18	1.99	HS 39.88	71.8
2.200	15.37	2.41	HS 48.24	86.8
2.300	9.87	2.95	HS 59.01	106.2
2.400	6.70	3.59	HS 71.80	129.2
2.500	4.66	4.63	HS 92.61	166.7
2.600	3.64	6.77	HS 72.89	131.2
2.700	2.99	9.61	HS 59.88	107.8
2.800	2.40	14.60	HS 48.09	86.6
2.900	2.00	16.71	HS 39.91	71.8
3.000	1.71	15.89	HS 34.23	61.6
3.000	1.71	1.71	HS 34.23	61.6
3.100	20.82	2.00	HS 40.05	72.1
3.200	14.75	2.42	HS 48.35	87.0
3.300	9.63	2.99	HS 59.90	107.8
3.400	6.79	3.65	HS 73.03	131.5
3.500	4.68	4.69	HS 93.64	168.6
3.600	3.64	6.81	HS 72.89	131.2
3.700	2.99	9.80	HS 59.78	107.6
3.800	2.41	15.12	HS 48.19	86.7
3.900	2.00	21.20	HS 39.92	71.9
4.000	1.71	20.33	HS 34.19	61.5

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	1.71	1.71	HS 34.19	61.5
4.100	21.19	2.00	HS 39.98	72.0
4.200	14.98	2.41	HS 48.26	86.9
4.300	9.74	2.99	HS 59.85	107.7
4.400	6.80	3.65	HS 72.97	131.4
4.500	4.69	4.68	HS 93.68	168.6
4.600	3.65	6.80	HS 73.03	131.5
4.700	2.99	9.69	HS 59.90	107.8
4.800	2.41	14.88	HS 48.30	86.9
4.900	2.00	20.97	HS 40.01	72.0
5.000	1.71	20.14	HS 34.26	61.7
5.000	1.71	1.71	HS 34.26	61.7
5.100	20.97	2.00	HS 40.01	72.0
5.200	14.88	2.41	HS 48.30	86.9
5.300	9.69	2.99	HS 59.90	107.8
5.400	6.80	3.65	HS 73.03	131.5
5.500	4.69	4.69	HS 93.75	168.8
5.600	3.65	6.81	HS 72.97	131.4
5.700	2.99	9.74	HS 59.85	107.7
5.800	2.41	14.98	HS 48.26	86.9
5.900	2.00	21.19	HS 39.98	72.0
6.000	1.71	20.34	HS 34.23	61.6
6.000	1.71	1.71	HS 34.19	61.5
6.100	21.20	2.00	HS 39.92	71.9
6.200	15.12	2.41	HS 48.19	86.7
6.300	9.80	2.99	HS 59.78	107.6
6.400	6.81	3.64	HS 72.89	131.2
6.500	4.69	4.68	HS 93.54	168.4
6.600	3.65	6.79	HS 73.03	131.5
6.700	2.99	9.63	HS 59.90	107.8
6.800	2.42	14.75	HS 48.35	87.0
6.900	2.00	20.82	HS 40.05	72.1
7.000	1.71	20.01	HS 34.29	61.7

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.

Rating Live Load: HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	1.71	1.71	HS 34.23	61.6
7.100	17.50	2.00	HS 39.91	71.8
7.200	14.60	2.40	HS 48.09	86.6
7.300	9.61	2.99	HS 59.88	107.8
7.400	6.77	3.64	HS 72.89	131.2
7.500	4.64	4.66	HS 92.71	166.9
7.600	3.59	6.70	HS 71.80	129.2
7.700	2.95	9.87	HS 59.01	106.2
7.800	2.41	15.37	HS 48.24	86.8
7.900	1.99	22.99	HS 39.88	71.8
8.000	1.70	21.70	HS 34.06	61.3
8.000	1.70	1.57	HS 31.42	56.5
8.100	54.66	1.79	HS 35.90	64.6
8.200	25.06	2.12	HS 42.41	76.3
8.300	14.86	2.62	HS 52.41	94.3
8.400	9.78	3.31	HS 66.20	119.2
8.500	6.72	4.01	HS 80.28	144.5
8.600	5.10	5.29	HS 101.95	183.5
8.700	3.76	7.18	HS 75.22	135.4
8.800	2.90	10.81	HS 57.93	104.3
8.900	2.31	21.06	HS 46.14	83.1
9.000	1.89	29.72	HS 37.76	68.0

## SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
1.000 67.6	167.6	167.6	-167.6	-167.6	167.6	167.6	-167.6	-1
1.100 76.6	173.6	173.6	-161.7	-161.7	158.7	158.7	-176.6	-1
1.200 83.0	177.9	177.9	-157.4	-157.4	152.3	152.3	-183.0	-1
1.300 86.8	180.4	180.4	-154.9	-154.9	148.5	148.5	-186.8	-1
1.400 88.0	181.2	181.2	-154.1	-154.1	147.3	147.3	-188.0	-1
1.500 86.7	180.3	180.3	-155.0	-155.0	148.6	148.6	-186.7	-1
1.600 82.6	177.6	177.6	-157.7	-157.7	152.7	152.7	-182.6	-1
1.700 75.9	173.1	173.1	-162.1	-162.1	159.4	159.4	-175.9	-1
1.800 66.6	167.0	167.0	-168.3	-168.3	168.7	168.7	-166.6	-1
1.900 54.8	159.1	159.1	-176.2	-176.2	180.5	180.5	-154.8	-1
2.000 40.4	149.5	149.5	-185.8	-185.8	194.9	194.9	-140.4	-1
2.000 40.4	149.5	149.5	-185.8	-185.8	194.9	194.9	-140.4	-1
2.100 52.8	157.7	157.7	-177.5	-177.5	182.5	182.5	-152.8	-1
2.200 62.6	164.3	164.3	-171.0	-171.0	172.6	172.6	-162.6	-1
2.300 69.9	169.1	169.1	-166.1	-166.1	165.4	165.4	-169.9	-1
2.400 74.6	172.3	172.3	-163.0	-163.0	160.7	160.7	-174.6	-1
2.500 76.7	173.7	173.7	-161.6	-161.6	158.6	158.6	-176.7	-1
2.600 76.0	173.2	173.2	-162.0	-162.0	159.2	159.2	-176.0	-1
2.700 72.8	171.1	171.1	-164.2	-164.2	162.5	162.5	-172.8	-1
2.800 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
2.900 58.6	161.6	161.6	-173.6	-173.6	176.6	176.6	-158.6	-1

3.000 47.7	154.3	154.3	-180.9	-180.9	187.6	187.6	-147.7	-1
3.000 47.7	154.3	154.3	-180.9	-180.9	187.6	187.6	-147.7	-1
3.100 59.2	162.0	162.0	-173.3	-173.3	176.1	176.1	-159.2	-1
3.200 68.1	167.9	167.9	-167.3	-167.3	167.2	167.2	-168.1	-1
3.300 74.4	172.2	172.2	-163.1	-163.1	160.9	160.9	-174.4	-1
3.400 78.2	174.7	174.7	-160.6	-160.6	157.1	157.1	-178.2	-1
3.500 79.4	175.4	175.4	-159.8	-159.8	155.9	155.9	-179.4	-1
3.600 77.8	174.4	174.4	-160.9	-160.9	157.5	157.5	-177.8	-1
3.700 73.6	171.6	171.6	-163.7	-163.7	161.7	161.7	-173.6	-1
3.800 66.9	167.1	167.1	-168.1	-168.1	168.4	168.4	-166.9	-1
3.900 57.6	160.9	160.9	-174.3	-174.3	177.7	177.7	-157.6	-1
4.000 45.7	153.0	153.0	-182.3	-182.3	189.6	189.6	-145.7	-1

SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 45.7	153.0	153.0	-182.3	-182.3	189.6	189.6	-145.7	-1
4.100 57.4	160.8	160.8	-174.4	-174.4	177.8	177.8	-157.4	-1
4.200 66.6	167.0	167.0	-168.3	-168.3	168.7	168.7	-166.6	-1
4.300 73.2	171.4	171.4	-163.9	-163.9	162.1	162.1	-173.2	-1
4.400 77.2	174.0	174.0	-161.2	-161.2	158.0	158.0	-177.2	-1
4.500 78.7	175.0	175.0	-160.3	-160.3	156.6	156.6	-178.7	-1
4.600 77.4	174.1	174.1	-161.2	-161.2	157.9	157.9	-177.4	-1
4.700 73.5	171.5	171.5	-163.7	-163.7	161.8	161.8	-173.5	-1
4.800 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
4.900 58.0	161.2	161.2	-174.1	-174.1	177.3	177.3	-158.0	-1
5.000 46.4	153.5	153.5	-181.8	-181.8	188.9	188.9	-146.4	-1
5.000 46.4	153.5	153.5	-181.8	-181.8	188.9	188.9	-146.4	-1
5.100 58.0	161.2	161.2	-174.1	-174.1	177.3	177.3	-158.0	-1
5.200 67.0	167.2	167.2	-168.1	-168.1	168.3	168.3	-167.0	-1
5.300 73.5	171.5	171.5	-163.7	-163.7	161.8	161.8	-173.5	-1
5.400 77.4	174.1	174.1	-161.2	-161.2	157.9	157.9	-177.4	-1
5.500 78.7	175.0	175.0	-160.3	-160.3	156.6	156.6	-178.7	-1
5.600 77.2	174.0	174.0	-161.2	-161.2	158.0	158.0	-177.2	-1
5.700 73.2	171.4	171.4	-163.9	-163.9	162.1	162.1	-173.2	-1
5.800 66.6	167.0	167.0	-168.3	-168.3	168.7	168.7	-166.6	-1
5.900 57.4	160.8	160.8	-174.4	-174.4	177.8	177.8	-157.4	-1

6.000 45.7	153.0	153.0	-182.3	-182.3	189.6	189.6	-145.7	-1
6.000 45.7	153.0	153.0	-182.3	-182.3	189.6	189.6	-145.7	-1
6.100 57.6	160.9	160.9	-174.3	-174.3	177.7	177.7	-157.6	-1
6.200 66.9	167.1	167.1	-168.1	-168.1	168.4	168.4	-166.9	-1
6.300 73.6	171.6	171.6	-163.7	-163.7	161.7	161.7	-173.6	-1
6.400 77.8	174.4	174.4	-160.9	-160.9	157.5	157.5	-177.8	-1
6.500 79.4	175.4	175.4	-159.8	-159.8	155.9	155.9	-179.4	-1
6.600 78.2	174.7	174.7	-160.6	-160.6	157.1	157.1	-178.2	-1
6.700 74.4	172.2	172.2	-163.1	-163.1	160.9	160.9	-174.4	-1
6.800 68.1	167.9	167.9	-167.3	-167.3	167.2	167.2	-168.1	-1
6.900 59.2	162.0	162.0	-173.3	-173.3	176.1	176.1	-159.2	-1
7.000 47.7	154.3	154.3	-180.9	-180.9	187.6	187.6	-147.7	-1





9.000	167.6	167.6	-167.6	-167.6	167.6	167.6	-167.6	-1
67.6								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	2.30	30.54	2.30	30.54	HS 45.96	82.7
1.200	1.36	15.82	1.36	15.82	HS 27.25	49.0
1.300	1.13	10.77	1.13	10.77	HS 22.64	40.8
1.400	1.12	8.13	1.12	8.13	HS 22.47	40.4
1.500	1.18	6.46	1.18	6.46	HS 23.51	42.3
1.600	1.33	5.26	1.33	5.26	HS 26.55	47.8
1.700	1.61	4.34	1.61	4.34	HS 32.23	58.0
1.800	2.73	3.60	2.73	3.60	HS 54.68	98.4
1.900	7.88	2.56	7.88	2.56	HS 51.22	92.2
2.000	12.58	1.25	12.58	1.25	HS 25.00	45.0
2.000	12.58	1.25	12.58	1.25	HS 25.00	45.0
2.100	7.67	2.03	7.67	2.03	HS 40.58	73.0
2.200	2.61	2.61	2.61	2.61	HS 52.19	93.9
2.300	1.77	3.29	1.77	3.29	HS 35.47	63.9
2.400	1.56	4.25	1.56	4.25	HS 31.18	56.1
2.500	1.61	5.79	1.61	5.79	HS 32.14	57.8
2.600	1.57	5.68	1.57	5.68	HS 31.47	56.6
2.700	1.79	4.46	1.79	4.46	HS 35.82	64.5
2.800	2.68	3.59	2.68	3.59	HS 53.59	96.5
2.900	6.58	2.61	6.58	2.61	HS 52.22	94.0
3.000	8.40	1.39	8.40	1.39	HS 27.82	50.1
3.000	8.40	1.39	8.40	1.39	HS 27.82	50.1
3.100	6.35	2.57	6.35	2.57	HS 51.45	92.6
3.200	2.65	3.58	2.65	3.58	HS 53.03	95.4
3.300	1.77	4.48	1.77	4.48	HS 35.44	63.8
3.400	1.55	5.75	1.55	5.75	HS 31.00	55.8
3.500	1.59	7.63	1.59	7.63	HS 31.88	57.4
3.600	1.56	5.79	1.56	5.79	HS 31.12	56.0
3.700	1.78	4.50	1.78	4.50	HS 35.69	64.2
3.800	2.68	3.59	2.68	3.59	HS 53.61	96.5
3.900	6.74	2.59	6.74	2.59	HS 51.81	93.3
4.000	11.03	1.38	11.03	1.38	HS 27.56	49.6

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
4.000	11.03	1.38	11.03	1.38	HS 27.56	49.6
4.100	6.66	2.59	6.66	2.59	HS 51.70	93.1
4.200	2.68	3.58	2.68	3.58	HS 53.68	96.6
4.300	1.79	4.49	1.79	4.49	HS 35.78	64.4
4.400	1.56	5.77	1.56	5.77	HS 31.22	56.2
4.500	1.60	7.53	1.60	7.53	HS 32.04	57.7
4.600	1.56	5.78	1.56	5.78	HS 31.19	56.1
4.700	1.79	4.49	1.79	4.49	HS 35.72	64.3
4.800	2.68	3.59	2.68	3.59	HS 53.57	96.4
4.900	6.67	2.60	6.67	2.60	HS 51.93	93.5
5.000	10.82	1.38	10.82	1.38	HS 27.70	49.9
5.000	10.82	1.38	10.82	1.38	HS 27.70	49.9
5.100	6.56	2.60	6.56	2.60	HS 51.93	93.5
5.200	2.68	3.59	2.68	3.59	HS 53.57	96.4
5.300	1.79	4.49	1.79	4.49	HS 35.72	64.3
5.400	1.56	5.78	1.56	5.78	HS 31.19	56.1
5.500	1.60	7.53	1.60	7.53	HS 32.04	57.7
5.600	1.56	5.77	1.56	5.77	HS 31.22	56.2
5.700	1.79	4.49	1.79	4.49	HS 35.78	64.4
5.800	2.68	3.58	2.68	3.58	HS 53.68	96.6
5.900	6.76	2.59	6.76	2.59	HS 51.70	93.1
6.000	11.03	1.38	11.03	1.38	HS 27.57	49.6
6.000	11.03	1.38	11.03	1.38	HS 27.57	49.6
6.100	6.63	2.59	6.63	2.59	HS 51.81	93.3
6.200	2.68	3.59	2.68	3.59	HS 53.61	96.5
6.300	1.78	4.50	1.78	4.50	HS 35.69	64.2
6.400	1.56	5.79	1.56	5.79	HS 31.12	56.0
6.500	1.59	7.63	1.59	7.63	HS 31.88	57.4
6.600	1.55	5.75	1.55	5.75	HS 31.00	55.8
6.700	1.77	4.48	1.77	4.48	HS 35.44	63.8
6.800	2.65	3.58	2.65	3.58	HS 53.03	95.4
6.900	6.45	2.57	6.45	2.57	HS 51.45	92.6
7.000	8.40	1.39	8.40	1.39	HS 27.86	50.1

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: INV.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	8.40	1.39	8.40	1.39	HS 27.86	50.1
7.100	6.47	2.61	6.47	2.61	HS 52.22	94.0
7.200	2.68	3.59	2.68	3.59	HS 53.59	96.5
7.300	1.79	4.46	1.79	4.46	HS 35.82	64.5
7.400	1.57	5.68	1.57	5.68	HS 31.47	56.6
7.500	1.61	5.79	1.61	5.79	HS 32.14	57.8
7.600	1.56	4.25	1.56	4.25	HS 31.18	56.1
7.700	1.77	3.29	1.77	3.29	HS 35.47	63.9
7.800	2.61	2.61	2.61	2.61	HS 52.19	93.9
7.900	7.81	2.03	7.81	2.03	HS 40.58	73.0
8.000	12.58	1.25	12.58	1.25	HS 25.01	45.0
8.000	12.58	1.25	12.58	1.25	HS 25.01	45.0
8.100	7.73	2.56	7.73	2.56	HS 51.20	92.2
8.200	2.73	3.60	2.73	3.60	HS 54.68	98.4
8.300	1.61	4.34	1.61	4.34	HS 32.23	58.0
8.400	1.33	5.26	1.33	5.26	HS 26.55	47.8
8.500	1.18	6.46	1.18	6.46	HS 23.51	42.3
8.600	1.12	8.13	1.12	8.13	HS 22.47	40.4
8.700	1.13	10.77	1.13	10.77	HS 22.64	40.8
8.800	1.36	15.82	1.36	15.82	HS 27.25	49.0
8.900	2.30	30.54	2.30	30.54	HS 45.96	82.7
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	13.7	69.06 L	43.62	53.12	33.55
1.200	2.1	23.5	111.79 L	74.30	85.99	57.16
1.300	2.6	29.3	131.19 L	94.42	100.92	72.63
1.400	2.8	31.2	131.09 L	102.53	100.84	78.87
1.500	2.6	29.1	126.40 L	101.45	97.23	78.03
1.600	2.0	22.8	115.03 L	90.18	88.49	69.37
1.700	1.1	12.6	98.91 L	72.00	76.08	55.39
1.800	-0.2	-1.5	61.69 L	47.01	47.46	36.16
1.900	-1.8	-19.6	-59.93 R	-60.44	-46.10	-46.49
2.000	-3.8	-41.7	-112.30 L	-100.93	-86.38	-77.64
2.000	-3.8	-41.7	-112.30 L	-100.93	-86.38	-77.64
2.100	-2.1	-22.7	-75.31 R	-62.54	-57.93	-48.11
2.200	-0.7	-7.6	66.16 R	45.53	50.89	35.02
2.300	0.3	3.5	93.24 R	67.74	71.73	52.11
2.400	0.9	10.7	103.09 R	80.84	79.30	62.18
2.500	1.2	13.9	98.70 L	86.01	75.92	66.16
2.600	1.1	12.9	101.20 L	81.04	77.84	62.34
2.700	0.7	8.0	90.72 L	68.31	69.78	52.54
2.800	-0.1	-0.9	62.79 L	47.65	48.30	36.66
2.900	-1.3	-13.7	-60.76 L	-56.30	-46.74	-43.31
3.000	-2.8	-30.5	-106.16 L	-94.15	-81.66	-72.42
3.000	-2.8	-30.5	-106.16 L	-94.15	-81.66	-72.42
3.100	-1.2	-12.9	-61.87 R	-56.08	-47.59	-43.14
3.200	0.0	0.7	63.06 R	47.85	48.51	36.81
3.300	0.9	10.4	90.77 R	69.19	69.83	53.22
3.400	1.4	16.1	101.38 R	81.95	77.98	63.04
3.500	1.6	18.0	97.81 L	86.88	75.24	66.83
3.600	1.4	15.5	101.24 L	81.67	77.88	62.82
3.700	0.8	9.2	90.59 L	68.64	69.69	52.80
3.800	-0.1	-1.1	62.82 L	47.60	48.32	36.62
3.900	-1.4	-15.4	-60.83 L	-56.80	-46.79	-43.69
4.000	-3.0	-33.5	-105.72 L	-95.14	-81.33	-73.18

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
4.000	-3.0	-33.5	-105.72	L	-81.33	-73.18
4.100	-1.4	-15.6	-60.91	R	-46.85	-43.78
4.200	-0.2	-1.5	62.84	R	48.34	36.10
4.300	0.7	8.6	90.60	R	69.69	52.62
4.400	1.3	14.7	101.25	R	77.89	62.56
4.500	1.5	16.9	97.75	L	75.19	66.50
4.600	1.3	14.9	101.24	L	77.88	62.62
4.700	0.8	9.0	90.59	L	69.68	52.73
4.800	-0.1	-0.9	62.82	L	48.33	36.68
4.900	-1.3	-14.8	-60.84	L	-46.80	-43.51
5.000	-2.9	-32.5	-105.69	R	-81.30	-72.88
5.000	-2.9	-32.5	-105.69	R	-81.30	-72.88
5.100	-1.3	-14.8	-60.84	R	-46.80	-43.53
5.200	-0.1	-0.9	62.82	R	48.33	36.28
5.300	0.8	9.0	90.59	R	69.68	52.73
5.400	1.3	14.9	101.24	R	77.88	62.62
5.500	1.5	16.9	97.75	R	75.19	66.50
5.600	1.3	14.7	101.25	L	77.89	62.56
5.700	0.7	8.6	90.60	L	69.69	52.62
5.800	-0.2	-1.5	62.84	L	48.34	36.50
5.900	-1.4	-15.6	-60.91	L	-46.85	-43.76
6.000	-3.0	-33.5	-105.71	L	-81.32	-73.18
6.000	-3.0	-33.5	-105.71	L	-81.32	-73.18
6.100	-1.4	-15.4	-60.83	R	-46.79	-43.72
6.200	-0.1	-1.1	62.82	R	48.32	36.21
6.300	0.8	9.2	90.59	R	69.69	52.80
6.400	1.4	15.5	101.24	R	77.88	62.82
6.500	1.6	18.0	97.81	R	75.24	66.83
6.600	1.4	16.1	101.37	L	77.98	63.04
6.700	0.9	10.4	90.77	L	69.83	53.22
6.800	0.0	0.7	63.06	L	48.51	37.21
6.900	-1.2	-12.9	-61.87	L	-47.59	-43.12
7.000	-2.8	-30.5	-106.03	L	-81.56	-72.42

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane	
7.000	-2.8	-30.5	-106.03	L	-94.15	-81.56	-72.42
7.100	-1.3	-13.7	-60.76	R	-56.32	-46.74	-43.33
7.200	-0.1	-0.9	62.79	R	47.13	48.30	36.25
7.300	0.7	8.0	90.72	R	68.31	69.78	52.55
7.400	1.1	12.9	101.20	R	81.04	77.84	62.34
7.500	1.2	13.9	98.70	R	86.01	75.92	66.16
7.600	0.9	10.7	103.09	L	80.84	79.30	62.18
7.700	0.3	3.5	93.24	L	67.74	71.73	52.11
7.800	-0.7	-7.6	66.16	L	45.53	50.89	35.02
7.900	-2.1	-22.7	-75.31	L	-62.52	-57.93	-48.09
8.000	-3.8	-41.7	-112.26	R	-100.93	-86.35	-77.64
8.000	-3.8	-41.7	-112.26	R	-100.93	-86.35	-77.64
8.100	-1.8	-19.6	-59.93	L	-60.46	-46.10	-46.51
8.200	-0.2	-1.5	61.69	R	46.48	47.46	35.76
8.300	1.1	12.6	98.91	R	72.00	76.08	55.39
8.400	2.0	22.8	115.03	R	90.18	88.49	69.37
8.500	2.6	29.1	126.40	R	101.45	97.23	78.03
8.600	2.8	31.2	131.09	R	102.53	100.84	78.87
8.700	2.6	29.3	131.19	R	94.42	100.92	72.63
8.800	2.1	23.5	111.79	R	74.30	85.99	57.16
8.900	1.2	13.7	69.06	R	43.62	53.12	33.55
9.000	0.0	0.0	0.00	R	0.00	0.00	0.00





4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
5	3.100	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	3.200	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
9	3.300	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
2	3.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
2	3.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
5	3.600	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
6	3.700	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
4	3.800	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
9	3.900	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
1	4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
4.100	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.
4.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4.300	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
4.400	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
4.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
4.600	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
4.700	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
4.900	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.100	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
5.300	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
5.400	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
5.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
5.600	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
5.700	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
5.900	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.

1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
9	6.100	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
4	6.200	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
5	6.400	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
2	6.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
2	6.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
9	6.700	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
4	6.800	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
5	6.900	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
6	7.100	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.
6	7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	7.300	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	7.400	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
7	7.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
2	7.600	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
4	7.700	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
3	7.800	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
9	7.900	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.100	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
9	8.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4	8.300	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
5	8.400	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
3	8.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
6	8.600	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
5	8.700	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
2	8.800	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
6	8.900	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	HS 999.00 999.0
1.100	4.14	49.04	3.67	54.57	HS 73.48 132.3
1.200	2.46	25.44	2.17	28.21	HS 43.49 78.3
1.300	2.05	17.33	1.80	19.17	HS 36.09 65.0
1.400	2.03	13.08	1.79	14.47	HS 35.81 64.5
1.500	2.13	10.39	1.88	11.49	HS 37.49 67.5
1.600	2.40	8.46	2.12	9.38	HS 42.39 76.3
1.700	2.90	6.98	2.58	7.77	HS 51.55 92.8
1.800	4.90	5.77	4.38	6.46	HS 87.65 157.8
1.900	14.06	4.09	12.66	4.62	HS 81.81 147.3
2.000	22.34	1.99	20.27	2.27	HS 39.76 71.6
2.000	22.34	1.99	20.27	2.27	HS 39.76 71.6
2.100	13.67	3.24	12.32	3.66	HS 64.78 116.6
2.200	4.67	4.18	4.19	4.70	HS 83.64 150.5
2.300	3.18	5.27	2.84	5.89	HS 56.82 102.3
2.400	2.80	6.82	2.49	7.60	HS 49.88 89.8
2.500	2.89	9.30	2.57	10.34	HS 51.38 92.5
2.600	2.83	9.12	2.52	10.15	HS 50.33 90.6
2.700	3.22	7.16	2.87	7.98	HS 57.33 103.2
2.800	4.80	5.76	4.30	6.45	HS 85.90 154.6
2.900	11.75	4.18	10.56	4.70	HS 83.50 150.3
3.000	14.94	2.22	13.51	2.52	HS 44.35 79.8
3.000	14.94	2.22	13.51	2.52	HS 44.35 79.8
3.100	11.35	4.11	10.20	4.63	HS 82.28 148.1
3.200	4.76	5.74	4.25	6.43	HS 84.97 152.9
3.300	3.19	7.19	2.84	8.01	HS 56.70 102.1
3.400	2.79	9.24	2.48	10.27	HS 49.54 89.2
3.500	2.87	12.26	2.55	13.62	HS 50.94 91.7
3.600	2.80	9.29	2.49	10.34	HS 49.74 89.5
3.700	3.21	7.22	2.86	8.05	HS 57.11 102.8
3.800	4.81	5.75	4.30	6.44	HS 85.93 154.7
3.900	12.04	4.14	10.83	4.67	HS 82.82 149.1
4.000	19.63	2.19	17.76	2.50	HS 43.90 79.0

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	+bend	-bend		
4.000	19.63	2.19	17.76	2.50	HS 43.90	79.0
4.100	11.89	4.13	10.69	4.66	HS 82.64	148.8
4.200	4.81	5.74	4.30	6.43	HS 86.05	154.9
4.300	3.22	7.20	2.86	8.02	HS 57.26	103.1
4.400	2.81	9.27	2.49	10.31	HS 49.91	89.8
4.500	2.89	12.09	2.56	13.44	HS 51.20	92.2
4.600	2.81	9.28	2.49	10.32	HS 49.87	89.8
4.700	3.21	7.21	2.86	8.04	HS 57.17	102.9
4.800	4.80	5.76	4.29	6.44	HS 85.86	154.5
4.900	11.91	4.15	10.71	4.68	HS 83.03	149.4
5.000	19.25	2.21	17.41	2.51	HS 44.13	79.4
5.000	19.25	2.21	17.41	2.51	HS 44.13	79.4
5.100	11.72	4.15	10.53	4.68	HS 83.03	149.4
5.200	4.80	5.76	4.29	6.44	HS 85.86	154.5
5.300	3.21	7.21	2.86	8.04	HS 57.17	102.9
5.400	2.81	9.28	2.49	10.32	HS 49.87	89.8
5.500	2.89	12.09	2.56	13.44	HS 51.20	92.2
5.600	2.81	9.27	2.49	10.31	HS 49.91	89.8
5.700	3.22	7.20	2.86	8.02	HS 57.26	103.1
5.800	4.81	5.74	4.30	6.43	HS 86.05	154.9
5.900	12.08	4.13	10.87	4.66	HS 82.64	148.8
6.000	19.63	2.19	17.76	2.50	HS 43.91	79.0
6.000	19.63	2.19	17.76	2.50	HS 43.91	79.0
6.100	11.85	4.14	10.65	4.67	HS 82.82	149.1
6.200	4.81	5.75	4.30	6.44	HS 85.93	154.7
6.300	3.21	7.22	2.86	8.05	HS 57.11	102.8
6.400	2.80	9.29	2.49	10.34	HS 49.74	89.5
6.500	2.87	12.26	2.55	13.62	HS 50.94	91.7
6.600	2.79	9.24	2.48	10.27	HS 49.54	89.2
6.700	3.19	7.19	2.84	8.01	HS 56.70	102.1
6.800	4.76	5.74	4.25	6.43	HS 84.97	152.9
6.900	11.53	4.11	10.36	4.63	HS 82.28	148.1
7.000	14.94	2.22	13.51	2.52	HS 44.40	79.9

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: HS20

## Moment

Span	Rating Factor		Moment		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
7.000	14.94	2.22	13.51	2.52	HS 44.40	79.9
7.100	11.56	4.18	10.39	4.70	HS 83.50	150.3
7.200	4.80	5.76	4.30	6.45	HS 85.90	154.6
7.300	3.22	7.16	2.87	7.98	HS 57.33	103.2
7.400	2.83	9.12	2.52	10.15	HS 50.33	90.6
7.500	2.89	9.30	2.57	10.34	HS 51.38	92.5
7.600	2.80	6.82	2.49	7.60	HS 49.88	89.8
7.700	3.18	5.27	2.84	5.89	HS 56.82	102.3
7.800	4.67	4.18	4.19	4.70	HS 83.64	150.5
7.900	13.93	3.24	12.56	3.66	HS 64.78	116.6
8.000	22.34	1.99	20.27	2.27	HS 39.77	71.6
8.000	22.34	1.99	20.27	2.27	HS 39.77	71.6
8.100	13.79	4.09	12.42	4.62	HS 81.78	147.2
8.200	4.90	5.77	4.38	6.46	HS 87.65	157.8
8.300	2.90	6.98	2.58	7.77	HS 51.55	92.8
8.400	2.40	8.46	2.12	9.38	HS 42.39	76.3
8.500	2.13	10.39	1.88	11.49	HS 37.49	67.5
8.600	2.03	13.08	1.79	14.47	HS 35.81	64.5
8.700	2.05	17.33	1.80	19.17	HS 36.09	65.0
8.800	2.46	25.44	2.17	28.21	HS 43.49	78.3
8.900	4.14	49.04	3.67	54.57	HS 73.48	132.3
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	6.6	34.71	27.16	26.70	20.89
1.100	0.4	4.9	28.88	23.25	22.21	17.88
1.200	0.3	3.3	23.37	19.54	17.98	15.03
1.300	0.1	1.6	18.28	16.05	14.06	12.35
1.400	0.0	-0.1	13.70	12.82	10.54	9.86
1.500	-0.2	-1.7	-17.10	-15.53	-13.16	-11.95
1.600	-0.3	-3.5	-20.41	-18.56	-15.70	-14.27
1.700	-0.5	-5.1	-25.37	-21.50	-19.52	-16.54
1.800	-0.6	-6.7	-30.85	-24.31	-23.73	-18.70
1.900	-0.8	-8.4	-35.84	-26.94	-27.57	-20.72
2.000	-0.9	-10.0	-40.27	-29.34	-30.98	-22.57
2.000	0.8	-10.0	37.28	29.08	28.68	22.37
2.100	0.6	7.1	32.69	26.19	25.14	20.15
2.200	0.5	5.5	27.47	23.07	21.13	17.75
2.300	0.3	3.8	22.82	19.82	17.55	15.24
2.400	0.2	2.2	19.05	16.54	14.66	12.72
2.500	0.0	0.5	-15.05	13.32	-11.58	10.25
2.600	-0.1	-1.2	-18.94	-16.49	-14.57	-12.69
2.700	-0.3	-2.9	-22.69	-19.75	-17.45	-15.20
2.800	-0.4	-4.5	-27.81	-22.96	-21.39	-17.66
2.900	-0.6	-6.2	-32.97	-26.00	-25.36	-20.00
3.000	-0.7	-7.8	-37.80	-28.78	-29.08	-22.14
3.000	0.7	8.2	37.61	28.93	28.93	22.25
3.100	0.6	6.5	32.74	26.12	25.18	20.09
3.200	0.4	4.9	27.56	23.04	21.20	17.72
3.300	0.3	3.2	22.61	19.80	17.39	15.23
3.400	0.1	1.6	18.84	16.51	14.49	12.70
3.500	0.0	-0.1	14.90	-13.40	11.46	-10.31
3.600	-0.2	-1.8	-18.83	-16.63	-14.48	-12.80
3.700	-0.3	-3.5	-22.60	-19.92	-17.38	-15.32
3.800	-0.5	-5.1	-27.59	-23.15	-21.22	-17.81
3.900	-0.6	-6.8	-32.76	-26.23	-25.20	-20.17
4.000	-0.8	-8.4	-37.62	-29.03	-28.94	-22.33

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-8.4	37.61	29.00	28.93	22.31
4.100	0.6	6.7	32.74	26.19	25.19	20.15
4.200	0.5	5.0	27.57	23.12	21.21	17.78
4.300	0.3	3.4	22.59	19.88	17.38	15.29
4.400	0.2	1.8	18.82	16.59	14.48	12.76
4.500	0.0	0.1	14.89	13.36	11.46	10.28
4.600	-0.1	-1.7	-18.82	-16.56	-14.48	-12.74
4.700	-0.3	-3.3	-22.59	-19.85	-17.38	-15.27
4.800	-0.4	-5.0	-27.57	-23.09	-21.21	-17.76
4.900	-0.6	-6.6	-32.74	-26.16	-25.19	-20.12
5.000	-0.7	-8.2	-37.61	-28.97	-28.93	-22.28
5.000	0.7	8.2	37.61	28.97	28.93	22.28
5.100	0.6	6.6	32.74	26.16	25.19	20.12
5.200	0.4	5.0	27.57	23.09	21.21	17.76
5.300	0.3	3.3	22.59	19.85	17.38	15.27
5.400	0.1	1.7	18.82	16.56	14.48	12.74
5.500	0.0	0.1	14.89	-13.36	11.46	-10.28
5.600	-0.2	-1.8	-18.82	-16.59	-14.48	-12.76
5.700	-0.3	-3.4	-22.59	-19.88	-17.38	-15.29
5.800	-0.5	-5.0	-27.57	-23.12	-21.21	-17.78
5.900	-0.6	-6.7	-32.74	-26.19	-25.19	-20.15
6.000	-0.7	-8.3	-37.61	-29.00	-28.93	-22.31
6.000	0.8	8.4	37.62	29.03	28.94	22.33
6.100	0.6	6.8	32.76	26.23	25.20	20.17
6.200	0.5	5.1	27.59	23.15	21.22	17.81
6.300	0.3	3.5	22.60	19.92	17.38	15.32
6.400	0.2	1.8	18.83	16.63	14.48	12.80
6.500	0.0	0.2	14.90	13.40	11.46	10.31
6.600	-0.1	-1.6	-18.84	-16.51	-14.49	-12.70
6.700	-0.3	-3.2	-22.61	-19.80	-17.39	-15.23
6.800	-0.4	-4.9	-27.56	-23.04	-21.20	-17.72
6.900	-0.6	-6.5	-32.74	-26.12	-25.18	-20.09
7.000	-0.7	-8.2	-37.61	-28.93	-28.93	-22.25

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-8.2	37.80	28.78	29.08	22.14
7.100	0.6	6.2	32.97	26.00	25.36	20.00
7.200	0.4	4.5	27.81	22.96	21.39	17.66
7.300	0.3	2.9	22.69	19.75	17.45	15.20
7.400	0.1	1.2	18.94	16.49	14.57	12.69
7.500	0.0	-0.5	15.05	-13.32	11.58	-10.25
7.600	-0.2	-2.2	-19.05	-16.54	-14.66	-12.72
7.700	-0.3	-3.8	-22.82	-19.82	-17.55	-15.24
7.800	-0.5	-5.5	-27.47	-23.07	-21.13	-17.75
7.900	-0.6	-7.1	-32.69	-26.19	-25.14	-20.15
8.000	-0.8	-8.8	-37.63	-29.08	-28.95	-22.37
8.000	0.9	10.0	40.27	29.34	30.98	22.57
8.100	0.8	8.4	35.84	26.94	27.57	20.72
8.200	0.6	6.7	30.85	24.31	23.73	18.70
8.300	0.5	5.1	25.37	21.50	19.52	16.54
8.400	0.3	3.5	20.41	18.56	15.70	14.27
8.500	0.2	1.8	17.10	15.53	13.16	11.95
8.600	0.0	0.1	-13.70	-12.82	-10.54	-9.86
8.700	-0.1	-1.6	-18.28	-16.05	-14.06	-12.35
8.800	-0.3	-3.3	-23.37	-19.54	-17.98	-15.03
8.900	-0.4	-4.9	-28.88	-23.25	-22.21	-17.88
9.000	-0.6	-6.6	-34.71	-27.16	-26.70	-20.89

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-123.5	109.2
1.100	151.3	-121.7	111.0
1.200	151.3	-119.9	112.8
1.300	151.3	-118.1	114.6
1.400	151.3	-116.3	116.4
1.500	151.3	-114.6	118.2
1.600	151.3	-112.6	120.1
1.700	151.3	-110.8	121.9
1.800	151.3	-109.0	123.7
1.900	151.3	-107.2	125.5
2.000	151.3	-105.4	127.3
2.000	151.3	-105.4	106.8
2.100	151.3	-124.1	108.6
2.200	151.3	-122.3	110.4
2.300	151.3	-120.5	112.2
2.400	151.3	-118.7	114.0
2.500	151.3	-116.9	115.8
2.600	151.3	-115.0	117.7
2.700	151.3	-113.2	119.5
2.800	151.3	-111.4	121.3
2.900	151.3	-109.6	123.1
3.000	151.3	-107.8	117.1
3.000	151.3	-107.8	107.5
3.100	151.3	-123.5	109.3
3.200	151.3	-121.7	111.1
3.300	151.3	-119.9	112.9
3.400	151.3	-118.1	114.7
3.500	151.3	-116.3	116.4
3.600	151.3	-114.4	118.4
3.700	151.3	-112.6	120.2
3.800	151.3	-110.8	122.0
3.900	151.3	-109.0	123.8
4.000	151.3	-107.2	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-107.2	107.3
4.100	151.3	-123.7	109.1
4.200	151.3	-121.9	110.9
4.300	151.3	-120.1	112.7
4.400	151.3	-118.3	114.5
4.500	151.3	-116.5	116.3
4.600	151.3	-114.6	118.2
4.700	151.3	-112.8	120.0
4.800	151.3	-111.0	121.8
4.900	151.3	-109.2	123.6
5.000	151.3	-107.4	117.1
5.000	151.3	-107.4	107.4
5.100	151.3	-123.6	109.2
5.200	151.3	-121.8	111.0
5.300	151.3	-120.0	112.8
5.400	151.3	-118.2	114.6
5.500	151.3	-116.4	116.4
5.600	151.3	-114.5	118.3
5.700	151.3	-112.7	120.1
5.800	151.3	-110.9	121.9
5.900	151.3	-109.1	123.7
6.000	151.3	-107.3	117.1
6.000	151.3	-107.3	107.2
6.100	151.3	-123.8	109.0
6.200	151.3	-122.0	110.8
6.300	151.3	-120.2	112.6
6.400	151.3	-118.4	114.4
6.500	151.3	-116.6	116.2
6.600	151.3	-114.7	118.1
6.700	151.3	-112.9	119.9
6.800	151.3	-111.1	121.7
6.900	151.3	-109.3	123.5
7.000	151.3	-107.5	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-107.5	107.8
7.100	151.3	-123.1	109.6
7.200	151.3	-121.3	111.4
7.300	151.3	-119.5	113.2
7.400	151.3	-117.7	115.0
7.500	151.3	-115.9	116.8
7.600	151.3	-114.0	118.7
7.700	151.3	-112.2	120.5
7.800	151.3	-110.4	122.3
7.900	151.3	-108.6	124.1
8.000	151.3	-106.8	117.2
8.000	151.3	-106.8	105.4
8.100	151.3	-125.5	107.2
8.200	151.3	-123.7	109.0
8.300	151.3	-121.9	110.8
8.400	151.3	-120.1	112.6
8.500	151.3	-118.3	114.4
8.600	151.3	-116.4	116.3
8.700	151.3	-114.6	118.1
8.800	151.3	-112.8	119.9
8.900	151.3	-111.0	121.7
9.000	151.3	-109.2	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	52.30	3.15	HS 62.93	113.3
1.100	35.09	3.85	HS 76.90	138.4
1.200	18.03	4.83	HS 96.55	173.8
1.300	11.97	6.27	HS 125.37	225.7
1.400	8.82	8.50	HS 169.91	305.8
1.500	6.70	11.18	HS 133.95	241.1
1.600	5.52	16.30	HS 110.33	198.6
1.700	4.37	24.77	HS 87.35	157.2
1.800	3.53	41.76	HS 70.68	127.2
1.900	2.99	91.11	HS 59.84	107.7
2.000	2.62	201.31	HS 52.36	94.2
2.000	2.62	2.87	HS 52.36	94.2
2.100	38.63	3.32	HS 66.46	119.6
2.200	25.61	4.02	HS 80.40	144.7
2.300	16.44	4.92	HS 98.34	177.0
2.400	11.18	5.98	HS 119.66	215.4
2.500	7.77	7.72	HS 154.34	277.8
2.600	6.07	11.28	HS 121.48	218.7
2.700	4.99	16.01	HS 99.80	179.6
2.800	4.01	24.34	HS 80.15	144.3
2.900	3.33	27.84	HS 66.52	119.7
3.000	2.85	26.48	HS 57.06	102.7
3.000	2.85	2.86	HS 57.06	102.7
3.100	34.71	3.34	HS 66.75	120.2
3.200	24.59	4.03	HS 80.59	145.1
3.300	16.05	4.99	HS 99.84	179.7
3.400	11.31	6.09	HS 121.72	219.1
3.500	7.80	7.82	HS 156.07	280.9
3.600	6.07	11.35	HS 121.48	218.7
3.700	4.98	16.33	HS 99.64	179.3
3.800	4.02	25.20	HS 80.32	144.6
3.900	3.33	35.33	HS 66.54	119.8
4.000	2.85	33.89	HS 56.98	102.6

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	2.85	2.85	HS 56.98	102.6
4.100	35.32	3.33	HS 66.63	119.9
4.200	24.97	4.02	HS 80.43	144.8
4.300	16.23	4.99	HS 99.74	179.5
4.400	11.34	6.08	HS 121.62	218.9
4.500	7.82	7.81	HS 156.13	281.0
4.600	6.09	11.34	HS 121.72	219.1
4.700	4.99	16.15	HS 99.83	179.7
4.800	4.03	24.79	HS 80.50	144.9
4.900	3.33	34.94	HS 66.68	120.0
5.000	2.86	33.56	HS 57.10	102.8
5.000	2.86	2.86	HS 57.10	102.8
5.100	34.94	3.33	HS 66.68	120.0
5.200	24.79	4.03	HS 80.50	144.9
5.300	16.15	4.99	HS 99.83	179.7
5.400	11.34	6.09	HS 121.72	219.1
5.500	7.82	7.81	HS 156.25	281.3
5.600	6.08	11.34	HS 121.62	218.9
5.700	4.99	16.23	HS 99.74	179.5
5.800	4.02	24.97	HS 80.43	144.8
5.900	3.33	35.32	HS 66.63	119.9
6.000	2.85	33.90	HS 57.05	102.7
6.000	2.85	2.85	HS 56.98	102.6
6.100	35.33	3.33	HS 66.54	119.8
6.200	25.20	4.02	HS 80.32	144.6
6.300	16.33	4.98	HS 99.64	179.3
6.400	11.35	6.07	HS 121.48	218.7
6.500	7.82	7.80	HS 155.89	280.6
6.600	6.09	11.31	HS 121.72	219.1
6.700	4.99	16.05	HS 99.84	179.7
6.800	4.03	24.59	HS 80.59	145.1
6.900	3.34	34.71	HS 66.75	120.2
7.000	2.86	33.35	HS 57.15	102.9



## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	2.86	2.85	HS 57.06	102.7
7.100	29.16	3.33	HS 66.52	119.7
7.200	24.34	4.01	HS 80.15	144.3
7.300	16.01	4.99	HS 99.80	179.6
7.400	11.28	6.07	HS 121.48	218.7
7.500	7.73	7.76	HS 154.52	278.1
7.600	5.98	11.18	HS 119.66	215.4
7.700	4.92	16.44	HS 98.34	177.0
7.800	4.02	25.61	HS 80.40	144.7
7.900	3.32	38.32	HS 66.46	119.6
8.000	2.84	36.17	HS 56.77	102.2
8.000	2.84	2.62	HS 52.36	94.2
8.100	91.11	2.99	HS 59.84	107.7
8.200	41.76	3.53	HS 70.68	127.2
8.300	24.77	4.37	HS 87.35	157.2
8.400	16.30	5.52	HS 110.33	198.6
8.500	11.19	6.69	HS 133.80	240.8
8.600	8.50	8.82	HS 169.91	305.8
8.700	6.27	11.97	HS 125.37	225.7
8.800	4.83	18.03	HS 96.55	173.8
8.900	3.85	35.09	HS 76.90	138.4
9.000	3.15	49.53	HS 62.93	113.3

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

Span g tt.	Moment Capacity		Available Capacity for LL+I	
	Positive Bending Top	Negative Bending Bott.	Positive Bending Top	Negative Bending Bott.
1.000 79.4	279.4	279.4	-279.4	-279.4
1.100 94.3	279.4	279.4	-279.4	-279.4
1.200 05.0	279.4	279.4	-279.4	-279.4
1.300 11.3	279.4	279.4	-279.4	-279.4
1.400 13.3	279.4	279.4	-279.4	-279.4
1.500 11.1	279.4	279.4	-279.4	-279.4
1.600 04.3	279.4	279.4	-279.4	-279.4
1.700 93.1	279.4	279.4	-279.4	-279.4
1.800 77.7	279.4	279.4	-279.4	-279.4
1.900 58.0	279.4	279.4	-279.4	-279.4
2.000 34.0	279.4	279.4	-279.4	-279.4
2.000 34.0	279.4	279.4	-279.4	-279.4
2.100 54.7	279.4	279.4	-279.4	-279.4
2.200 71.1	279.4	279.4	-279.4	-279.4
2.300 83.2	279.4	279.4	-279.4	-279.4
2.400 91.0	279.4	279.4	-279.4	-279.4
2.500 94.5	279.4	279.4	-279.4	-279.4
2.600 93.4	279.4	279.4	-279.4	-279.4
2.700 88.0	279.4	279.4	-279.4	-279.4
2.800 78.4	279.4	279.4	-279.4	-279.4
2.900 64.4	279.4	279.4	-279.4	-279.4

3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.100 65.3	279.4	279.4	-279.4	-279.4	293.5	293.5	-265.3	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 90.7	279.4	279.4	-279.4	-279.4	268.1	268.1	-290.7	-2
3.400 96.9	279.4	279.4	-279.4	-279.4	261.9	261.9	-296.9	-2
3.500 98.9	279.4	279.4	-279.4	-279.4	259.9	259.9	-298.9	-2
3.600 96.3	279.4	279.4	-279.4	-279.4	262.5	262.5	-296.3	-2
3.700 89.4	279.4	279.4	-279.4	-279.4	269.4	269.4	-289.4	-2
3.800 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
3.900 62.6	279.4	279.4	-279.4	-279.4	296.2	296.2	-262.6	-2
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2
4.100 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2
4.200 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
4.300 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
4.400 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
4.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
4.600 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
4.700 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
4.800 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
4.900 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.100 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.200 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
5.300 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
5.400 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
5.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
5.600 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
5.700 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
5.800 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
5.900 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2



## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

HS20

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
7.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
7.100 64.4	279.4	279.4	-279.4	-279.4	294.4	294.4	-264.4	-2
7.200 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
7.300 88.0	279.4	279.4	-279.4	-279.4	270.8	270.8	-288.0	-2
7.400 93.4	279.4	279.4	-279.4	-279.4	265.4	265.4	-293.4	-2
7.500 94.5	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
7.600 91.0	279.4	279.4	-279.4	-279.4	267.8	267.8	-291.0	-2
7.700 83.2	279.4	279.4	-279.4	-279.4	275.6	275.6	-283.2	-2
7.800 71.1	279.4	279.4	-279.4	-279.4	287.7	287.7	-271.1	-2
7.900 54.7	279.4	279.4	-279.4	-279.4	304.1	304.1	-254.7	-2
8.000 34.0	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
8.000 34.0	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
8.100 58.0	279.4	279.4	-279.4	-279.4	300.8	300.8	-258.0	-2
8.200 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
8.300 93.1	279.4	279.4	-279.4	-279.4	265.7	265.7	-293.1	-2
8.400 04.3	279.4	279.4	-279.4	-279.4	254.5	254.5	-304.3	-3
8.500 11.1	279.4	279.4	-279.4	-279.4	247.7	247.7	-311.1	-3
8.600 13.3	279.4	279.4	-279.4	-279.4	245.5	245.5	-313.3	-3
8.700 11.3	279.4	279.4	-279.4	-279.4	247.5	247.5	-311.3	-3
8.800 05.0	279.4	279.4	-279.4	-279.4	253.8	253.8	-305.0	-3
8.900 94.3	279.4	279.4	-279.4	-279.4	264.5	264.5	-294.3	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	HS 999.00	999.0
1.100	3.83	50.90	3.83	50.90	HS 76.59	137.9
1.200	2.27	26.37	2.27	26.37	HS 45.41	81.7
1.300	1.89	17.94	1.89	17.94	HS 37.73	67.9
1.400	1.87	13.55	1.87	13.55	HS 37.45	67.4
1.500	1.96	10.76	1.96	10.76	HS 39.19	70.5
1.600	2.21	8.77	2.21	8.77	HS 44.26	79.7
1.700	2.69	7.24	2.69	7.24	HS 53.72	96.7
1.800	4.56	6.00	4.56	6.00	HS 91.13	164.0
1.900	13.13	4.27	13.13	4.27	HS 85.37	153.7
2.000	20.97	2.08	20.97	2.08	HS 41.67	75.0
2.000	20.97	2.08	20.97	2.08	HS 41.67	75.0
2.100	12.78	3.38	12.78	3.38	HS 67.63	121.7
2.200	4.35	4.35	4.35	4.35	HS 86.98	156.6
2.300	2.96	5.48	2.96	5.48	HS 59.12	106.4
2.400	2.60	7.08	2.60	7.08	HS 51.96	93.5
2.500	2.68	9.65	2.68	9.65	HS 53.56	96.4
2.600	2.62	9.47	2.62	9.47	HS 52.45	94.4
2.700	2.98	7.44	2.98	7.44	HS 59.70	107.5
2.800	4.47	5.99	4.47	5.99	HS 89.32	160.8
2.900	10.96	4.35	10.96	4.35	HS 87.04	156.7
3.000	13.99	2.32	13.99	2.32	HS 46.37	83.5
3.000	13.99	2.32	13.99	2.32	HS 46.37	83.5
3.100	10.59	4.29	10.59	4.29	HS 85.76	154.4
3.200	4.42	5.97	4.42	5.97	HS 88.38	159.1
3.300	2.95	7.47	2.95	7.47	HS 59.07	106.3
3.400	2.58	9.59	2.58	9.59	HS 51.66	93.0
3.500	2.66	12.71	2.66	12.71	HS 53.14	95.7
3.600	2.59	9.64	2.59	9.64	HS 51.86	93.3
3.700	2.97	7.49	2.97	7.49	HS 59.48	107.1
3.800	4.47	5.98	4.47	5.98	HS 89.35	160.8
3.900	11.24	4.32	11.24	4.32	HS 86.35	155.4
4.000	18.39	2.30	18.39	2.30	HS 45.94	82.7



## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	18.39	2.30	18.39	2.30	HS 45.94	82.7
4.100	11.09	4.31	11.09	4.31	HS 86.17	155.1
4.200	4.47	5.97	4.47	5.97	HS 89.47	161.0
4.300	2.98	7.47	2.98	7.47	HS 59.63	107.3
4.400	2.60	9.62	2.60	9.62	HS 52.03	93.7
4.500	2.67	12.54	2.67	12.54	HS 53.40	96.1
4.600	2.60	9.63	2.60	9.63	HS 51.99	93.6
4.700	2.98	7.49	2.98	7.49	HS 59.54	107.2
4.800	4.46	5.99	4.46	5.99	HS 89.28	160.7
4.900	11.11	4.33	11.11	4.33	HS 86.56	155.8
5.000	18.03	2.31	18.03	2.31	HS 46.16	83.1
5.000	18.03	2.31	18.03	2.31	HS 46.16	83.1
5.100	10.93	4.33	10.93	4.33	HS 86.56	155.8
5.200	4.46	5.99	4.46	5.99	HS 89.28	160.7
5.300	2.98	7.49	2.98	7.49	HS 59.54	107.2
5.400	2.60	9.63	2.60	9.63	HS 51.99	93.6
5.500	2.67	12.54	2.67	12.54	HS 53.40	96.1
5.600	2.60	9.62	2.60	9.62	HS 52.03	93.7
5.700	2.98	7.47	2.98	7.47	HS 59.63	107.3
5.800	4.47	5.97	4.47	5.97	HS 89.47	161.0
5.900	11.28	4.31	11.28	4.31	HS 86.17	155.1
6.000	18.39	2.30	18.39	2.30	HS 45.94	82.7
6.000	18.39	2.30	18.39	2.30	HS 45.94	82.7
6.100	11.05	4.32	11.05	4.32	HS 86.35	155.4
6.200	4.47	5.98	4.47	5.98	HS 89.35	160.8
6.300	2.97	7.49	2.97	7.49	HS 59.48	107.1
6.400	2.59	9.64	2.59	9.64	HS 51.86	93.3
6.500	2.66	12.71	2.66	12.71	HS 53.14	95.7
6.600	2.58	9.59	2.58	9.59	HS 51.66	93.0
6.700	2.95	7.47	2.95	7.47	HS 59.07	106.3
6.800	4.42	5.97	4.42	5.97	HS 88.38	159.1
6.900	10.76	4.29	10.76	4.29	HS 85.76	154.4
7.000	13.99	2.32	13.99	2.32	HS 46.43	83.6

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: HS20

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	13.99	2.32	13.99	2.32	HS 46.43	83.6
7.100	10.79	4.35	10.79	4.35	HS 87.04	156.7
7.200	4.47	5.99	4.47	5.99	HS 89.32	160.8
7.300	2.98	7.44	2.98	7.44	HS 59.70	107.5
7.400	2.62	9.47	2.62	9.47	HS 52.45	94.4
7.500	2.68	9.65	2.68	9.65	HS 53.56	96.4
7.600	2.60	7.08	2.60	7.08	HS 51.96	93.5
7.700	2.96	5.48	2.96	5.48	HS 59.12	106.4
7.800	4.35	4.35	4.35	4.35	HS 86.98	156.6
7.900	13.02	3.38	13.02	3.38	HS 67.63	121.7
8.000	20.97	2.08	20.97	2.08	HS 41.68	75.0
8.000	20.97	2.08	20.97	2.08	HS 41.68	75.0
8.100	12.88	4.27	12.88	4.27	HS 85.34	153.6
8.200	4.56	6.00	4.56	6.00	HS 91.13	164.0
8.300	2.69	7.24	2.69	7.24	HS 53.72	96.7
8.400	2.21	8.77	2.21	8.77	HS 44.25	79.7
8.500	1.96	10.76	1.96	10.76	HS 39.19	70.5
8.600	1.87	13.55	1.87	13.55	HS 37.45	67.4
8.700	1.89	17.94	1.89	17.94	HS 37.73	67.9
8.800	2.27	26.37	2.27	26.37	HS 45.41	81.7
8.900	3.83	50.90	3.83	50.90	HS 76.59	137.9
9.000	999.00	999.00	999.00	999.00	HS 999.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
1.000	0.0	0.0	0.00 R 0.00	0.00 0.00
1.100	1.2	13.7	42.08 R 0.00	32.37 0.00
1.200	2.1	23.5	70.29 R 0.00	54.07 0.00
1.300	2.6	29.3	85.62 R 0.00	65.86 0.00
1.400	2.8	31.2	89.41 R 0.00	68.77 0.00
1.500	2.6	29.1	84.95 L 0.00	65.35 0.00
1.600	2.0	22.8	79.32 L 0.00	61.01 0.00
1.700	1.1	12.6	63.71 L 0.00	49.01 0.00
1.800	-0.2	-1.5	40.21 L 0.00	30.93 0.00
1.900	-1.8	-19.6	-34.99 R 0.00	-26.91 0.00
2.000	-3.8	-41.7	-51.52 L 0.00	-39.63 0.00
2.000	-3.8	-41.7	-51.52 L 0.00	-39.63 0.00
2.100	-2.1	-22.7	-44.99 L 0.00	-34.61 0.00
2.200	-0.7	-7.6	42.76 R 0.00	32.90 0.00
2.300	0.3	3.5	61.53 R 0.00	47.33 0.00
2.400	0.9	10.7	71.35 R 0.00	54.88 0.00
2.500	1.2	13.9	72.01 L 0.00	55.39 0.00
2.600	1.1	12.9	70.62 L 0.00	54.33 0.00
2.700	0.7	8.0	59.96 L 0.00	46.12 0.00
2.800	-0.1	-0.9	40.60 L 0.00	31.23 0.00
2.900	-1.3	-13.7	-36.46 R 0.00	-28.05 0.00
3.000	-2.8	-30.5	-42.58 L 0.00	-32.75 0.00
3.000	-2.8	-30.5	-42.58 L 0.00	-32.75 0.00
3.100	-1.2	-12.9	-37.18 L 0.00	-28.60 0.00
3.200	0.0	0.7	40.79 R 0.00	31.37 0.00
3.300	0.9	10.4	59.80 R 0.00	46.00 0.00
3.400	1.4	16.1	70.05 R 0.00	53.88 0.00
3.500	1.6	18.0	71.08 L 0.00	54.68 0.00
3.600	1.4	15.5	70.00 L 0.00	53.84 0.00
3.700	0.8	9.2	59.69 L 0.00	45.91 0.00
3.800	-0.1	-1.1	40.63 L 0.00	31.26 0.00
3.900	-1.4	-15.4	-36.56 R 0.00	-28.13 0.00
4.000	-3.0	-33.5	-41.93 L 0.00	-32.26 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-33.5	-41.93 L	0.00
4.100	-1.4	-15.6	-36.62 L	0.00
4.200	-0.2	-1.5	40.65 R	0.00
4.300	0.7	8.6	59.68 R	0.00
4.400	1.3	14.7	69.96 R	0.00
4.500	1.5	16.9	71.01 L	0.00
4.600	1.3	14.9	69.95 L	0.00
4.700	0.8	9.0	59.67 L	0.00
4.800	-0.1	-0.9	40.63 L	0.00
4.900	-1.3	-14.8	-36.57 R	0.00
5.000	-2.9	-32.5	-41.89 L	0.00
5.000	-2.9	-32.5	-41.89 L	0.00
5.100	-1.3	-14.8	-36.58 L	0.00
5.200	-0.1	-0.9	40.64 R	0.00
5.300	0.8	9.0	59.67 R	0.00
5.400	1.3	14.9	69.95 R	0.00
5.500	1.5	16.9	71.01 R	0.00
5.600	1.3	14.7	69.96 L	0.00
5.700	0.7	8.6	59.68 L	0.00
5.800	-0.2	-1.5	40.65 L	0.00
5.900	-1.4	-15.6	-36.62 R	0.00
6.000	-3.0	-33.5	-41.93 R	0.00
6.000	-3.0	-33.5	-41.93 R	0.00
6.100	-1.4	-15.4	-36.56 L	0.00
6.200	-0.1	-1.1	40.63 R	0.00
6.300	0.8	9.2	59.69 R	0.00
6.400	1.4	15.5	70.00 R	0.00
6.500	1.6	18.0	71.08 R	0.00
6.600	1.4	16.1	70.05 L	0.00
6.700	0.9	10.4	59.80 L	0.00
6.800	0.0	0.7	40.79 L	0.00
6.900	-1.2	-12.9	-37.18 R	0.00
7.000	-2.8	-30.5	-42.57 R	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-30.5	-42.57 R 0.00	-32.75 0.00
7.100	-1.3	-13.7	-36.46 L 0.00	-28.05 0.00
7.200	-0.1	-0.9	40.60 R 0.00	31.23 0.00
7.300	0.7	8.0	59.96 R 0.00	46.12 0.00
7.400	1.1	12.9	70.62 R 0.00	54.33 0.00
7.500	1.2	13.9	72.01 R 0.00	55.39 0.00
7.600	0.9	10.7	71.35 L 0.00	54.88 0.00
7.700	0.3	3.5	61.53 L 0.00	47.33 0.00
7.800	-0.7	-7.6	42.76 L 0.00	32.90 0.00
7.900	-2.1	-22.7	-44.99 R 0.00	-34.60 0.00
8.000	-3.8	-41.7	-51.52 R 0.00	-39.63 0.00
8.000	-3.8	-41.7	-51.52 R 0.00	-39.63 0.00
8.100	-1.8	-19.6	-34.99 L 0.00	-26.91 0.00
8.200	-0.2	-1.5	40.21 R 0.00	30.93 0.00
8.300	1.1	12.6	63.71 R 0.00	49.01 0.00
8.400	2.0	22.8	79.32 R 0.00	61.01 0.00
8.500	2.6	29.1	84.95 R 0.00	65.35 0.00
8.600	2.8	31.2	89.41 L 0.00	68.77 0.00
8.700	2.6	29.3	85.62 L 0.00	65.86 0.00
8.800	2.1	23.5	70.29 L 0.00	54.07 0.00
8.900	1.2	13.7	42.08 L 0.00	32.37 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

2F1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6	1.100	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.
2	1.200	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
5	1.300	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
6	1.400	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
3	1.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
5	1.600	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
4	1.700	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
9	1.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
2	1.900	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
9	2.100	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
3	2.200	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
4	2.300	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
2	2.400	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
7	2.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
6	2.600	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
3	2.700	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
6	2.900	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.

4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
5	3.100	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	3.200	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
9	3.300	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
2	3.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
2	3.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
5	3.600	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
6	3.700	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
4	3.800	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
9	3.900	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
1	4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.

## MOMENT CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
4.100	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.
4.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4.300	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
4.400	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
4.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
4.600	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
4.700	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
4.900	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.100	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
5.300	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
5.400	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
5.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
5.600	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
5.700	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
5.900	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.



1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
9	6.100	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
4	6.200	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
5	6.400	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
2	6.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
2	6.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
9	6.700	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
4	6.800	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
5	6.900	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

2F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
6	7.100	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.
6	7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	7.300	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	7.400	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
7	7.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
2	7.600	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
4	7.700	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
3	7.800	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
9	7.900	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.100	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
9	8.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4	8.300	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
5	8.400	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
3	8.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
6	8.600	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
5	8.700	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
2	8.800	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
6	8.900	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Value		Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber +bend	bottom fiber -bend	
1.000	999.00	999.00	999.00	999.00	0.00
1.100	6.79	72.94	6.03	81.17	0.00
1.200	3.91	37.84	3.46	41.95	0.00
1.300	3.14	25.77	2.77	28.51	0.00
1.400	2.98	19.46	2.62	21.52	0.00
1.500	3.17	15.45	2.79	17.10	0.00
1.600	3.48	12.58	3.07	13.95	0.00
1.700	4.50	10.38	4.00	11.55	0.00
1.800	7.52	8.58	6.72	9.61	0.00
1.900	28.58	7.07	25.74	7.98	0.00
2.000	33.22	4.33	30.15	4.95	0.00
2.000	33.22	4.33	30.15	4.95	0.00
2.100	19.89	5.42	17.94	6.13	0.00
2.200	7.22	6.77	6.48	7.60	0.00
2.300	4.82	8.53	4.30	9.54	0.00
2.400	4.05	11.04	3.60	12.30	0.00
2.500	3.97	15.05	3.52	16.74	0.00
2.600	4.06	13.57	3.61	15.10	0.00
2.700	4.87	10.65	4.34	11.88	0.00
2.800	7.43	8.56	6.64	9.59	0.00
2.900	22.32	6.96	20.06	7.84	0.00
3.000	24.19	5.53	21.87	6.28	0.00
3.000	24.19	5.53	21.87	6.28	0.00
3.100	21.69	6.85	19.49	7.71	0.00
3.200	7.35	8.48	6.57	9.48	0.00
3.300	4.84	10.61	4.30	11.82	0.00
3.400	4.04	13.64	3.59	15.16	0.00
3.500	3.95	18.49	3.51	20.55	0.00
3.600	4.05	13.82	3.60	15.37	0.00
3.700	4.87	10.73	4.33	11.97	0.00
3.800	7.43	8.55	6.64	9.58	0.00
3.900	22.12	6.89	19.89	7.76	0.00
4.000	29.56	5.53	26.75	6.30	0.00

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber -bend	bottom fiber +bend		
4.000	29.56	5.53	26.75	6.30	0.00	83.0
4.100	22.09	6.87	19.87	7.75	0.00	103.1
4.200	7.44	8.53	6.65	9.55	0.00	99.8
4.300	4.88	10.70	4.35	11.93	0.00	65.2
4.400	4.07	13.77	3.61	15.32	0.00	54.2
4.500	3.97	18.70	3.52	20.79	0.00	52.9
4.600	4.07	13.80	3.61	15.35	0.00	54.1
4.700	4.88	10.73	4.34	11.96	0.00	65.1
4.800	7.42	8.56	6.64	9.58	0.00	99.6
4.900	22.05	6.91	19.82	7.78	0.00	103.6
5.000	29.91	5.57	27.07	6.33	0.00	83.5
5.000	29.91	5.57	27.07	6.33	0.00	83.5
5.100	22.05	6.91	19.82	7.78	0.00	103.6
5.200	7.42	8.56	6.64	9.58	0.00	99.6
5.300	4.88	10.73	4.34	11.96	0.00	65.1
5.400	4.07	13.80	3.61	15.35	0.00	54.1
5.500	3.97	18.70	3.52	20.79	0.00	52.9
5.600	4.07	13.77	3.61	15.32	0.00	54.2
5.700	4.88	10.70	4.35	11.93	0.00	65.2
5.800	7.44	8.53	6.65	9.55	0.00	99.8
5.900	22.09	6.87	19.87	7.75	0.00	103.1
6.000	29.56	5.53	26.75	6.30	0.00	83.0
6.000	29.56	5.53	26.75	6.30	0.00	83.0
6.100	22.12	6.89	19.89	7.76	0.00	103.3
6.200	7.43	8.55	6.64	9.58	0.00	99.6
6.300	4.87	10.73	4.33	11.97	0.00	65.0
6.400	4.05	13.82	3.60	15.37	0.00	54.0
6.500	3.95	18.49	3.51	20.55	0.00	52.6
6.600	4.04	13.64	3.59	15.16	0.00	53.8
6.700	4.84	10.61	4.30	11.82	0.00	64.6
6.800	7.35	8.48	6.57	9.48	0.00	98.5
6.900	21.69	6.85	19.49	7.71	0.00	102.7
7.000	24.19	5.53	21.87	6.28	0.00	82.9

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 2F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
7.000	24.19	5.53	21.87	6.28	0.00	82.9
7.100	22.32	6.96	20.06	7.84	0.00	104.4
7.200	7.43	8.56	6.64	9.59	0.00	99.6
7.300	4.87	10.65	4.34	11.88	0.00	65.1
7.400	4.06	13.57	3.61	15.10	0.00	54.1
7.500	3.97	15.05	3.52	16.74	0.00	52.8
7.600	4.05	11.04	3.60	12.30	0.00	54.1
7.700	4.82	8.53	4.30	9.54	0.00	64.6
7.800	7.22	6.77	6.48	7.60	0.00	97.2
7.900	19.90	5.42	17.94	6.13	0.00	81.3
8.000	33.22	4.33	30.15	4.95	0.00	65.0
8.000	33.22	4.33	30.15	4.95	0.00	65.0
8.100	28.58	7.07	25.74	7.98	0.00	106.0
8.200	7.52	8.58	6.72	9.61	0.00	100.9
8.300	4.50	10.38	4.00	11.55	0.00	60.0
8.400	3.48	12.58	3.07	13.95	0.00	46.1
8.500	3.17	15.45	2.79	17.10	0.00	41.8
8.600	2.98	19.46	2.62	21.52	0.00	39.4
8.700	3.14	25.77	2.77	28.51	0.00	41.5
8.800	3.91	37.84	3.46	41.95	0.00	51.9
8.900	6.79	72.94	6.03	81.17	0.00	90.4
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	6.6	20.59	0.00	15.84	0.00
1.100	0.4	4.9	17.59	0.00	13.53	0.00
1.200	0.3	3.3	14.70	0.00	11.30	0.00
1.300	0.1	1.6	11.93	0.00	9.18	0.00
1.400	0.0	-0.1	9.35	0.00	7.19	0.00
1.500	-0.2	-1.7	-10.79	0.00	-8.30	0.00
1.600	-0.3	-3.5	-13.51	0.00	-10.40	0.00
1.700	-0.5	-5.1	-16.06	0.00	-12.35	0.00
1.800	-0.6	-6.7	-18.38	0.00	-14.14	0.00
1.900	-0.8	-8.4	-20.44	0.00	-15.72	0.00
2.000	-0.9	-10.0	-22.19	0.00	-17.07	0.00
2.000	0.8	-10.0	21.18	0.00	16.29	0.00
2.100	0.6	7.1	19.16	0.00	14.73	0.00
2.200	0.5	5.5	16.65	0.00	12.81	0.00
2.300	0.3	3.8	13.99	0.00	10.76	0.00
2.400	0.2	2.2	11.29	0.00	8.68	0.00
2.500	0.0	0.5	-8.91	0.00	-6.86	0.00
2.600	-0.1	-1.2	-11.59	0.00	-8.91	0.00
2.700	-0.3	-2.9	-14.29	0.00	-10.99	0.00
2.800	-0.4	-4.5	-16.92	0.00	-13.01	0.00
2.900	-0.6	-6.2	-19.36	0.00	-14.89	0.00
3.000	-0.7	-7.8	-21.52	0.00	-16.55	0.00
3.000	0.7	8.2	21.46	0.00	16.51	0.00
3.100	0.6	6.5	19.27	0.00	14.82	0.00
3.200	0.4	4.9	16.79	0.00	12.92	0.00
3.300	0.3	3.2	14.14	0.00	10.88	0.00
3.400	0.1	1.6	11.43	0.00	8.79	0.00
3.500	0.0	-0.1	-8.78	0.00	-6.75	0.00
3.600	-0.2	-1.8	-11.45	0.00	-8.81	0.00
3.700	-0.3	-3.5	-14.16	0.00	-10.89	0.00
3.800	-0.5	-5.1	-16.81	0.00	-12.93	0.00
3.900	-0.6	-6.8	-19.28	0.00	-14.83	0.00
4.000	-0.8	-8.4	-21.47	0.00	-16.52	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-8.4	21.47	0.00	16.51	0.00
4.100	0.6	6.7	19.28	0.00	14.83	0.00
4.200	0.5	5.0	16.80	0.00	12.92	0.00
4.300	0.3	3.4	14.15	0.00	10.89	0.00
4.400	0.2	1.8	11.44	0.00	8.80	0.00
4.500	0.0	0.1	8.77	0.00	6.74	0.00
4.600	-0.1	-1.7	-11.44	0.00	-8.80	0.00
4.700	-0.3	-3.3	-14.15	0.00	-10.89	0.00
4.800	-0.4	-5.0	-16.80	0.00	-12.93	0.00
4.900	-0.6	-6.6	-19.28	0.00	-14.83	0.00
5.000	-0.7	-8.2	-21.47	0.00	-16.51	0.00
5.000	0.7	8.2	21.47	0.00	16.51	0.00
5.100	0.6	6.6	19.28	0.00	14.83	0.00
5.200	0.4	5.0	16.80	0.00	12.93	0.00
5.300	0.3	3.3	14.15	0.00	10.89	0.00
5.400	0.1	1.7	11.44	0.00	8.80	0.00
5.500	0.0	0.1	8.77	0.00	6.74	0.00
5.600	-0.2	-1.8	-11.44	0.00	-8.80	0.00
5.700	-0.3	-3.4	-14.15	0.00	-10.89	0.00
5.800	-0.5	-5.0	-16.80	0.00	-12.92	0.00
5.900	-0.6	-6.7	-19.28	0.00	-14.83	0.00
6.000	-0.7	-8.3	-21.47	0.00	-16.51	0.00
6.000	0.8	8.4	21.47	0.00	16.52	0.00
6.100	0.6	6.8	19.28	0.00	14.83	0.00
6.200	0.5	5.1	16.81	0.00	12.93	0.00
6.300	0.3	3.5	14.16	0.00	10.89	0.00
6.400	0.2	1.8	11.45	0.00	8.81	0.00
6.500	0.0	0.2	8.78	0.00	6.75	0.00
6.600	-0.1	-1.6	-11.43	0.00	-8.79	0.00
6.700	-0.3	-3.2	-14.14	0.00	-10.88	0.00
6.800	-0.4	-4.9	-16.79	0.00	-12.92	0.00
6.900	-0.6	-6.5	-19.27	0.00	-14.82	0.00
7.000	-0.7	-8.2	-21.46	0.00	-16.51	0.00



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-8.2	21.52	0.00	16.55	0.00
7.100	0.6	6.2	19.36	0.00	14.89	0.00
7.200	0.4	4.5	16.92	0.00	13.01	0.00
7.300	0.3	2.9	14.29	0.00	10.99	0.00
7.400	0.1	1.2	11.59	0.00	8.91	0.00
7.500	0.0	-0.5	8.91	0.00	6.86	0.00
7.600	-0.2	-2.2	-11.29	0.00	-8.68	0.00
7.700	-0.3	-3.8	-13.99	0.00	-10.76	0.00
7.800	-0.5	-5.5	-16.65	0.00	-12.81	0.00
7.900	-0.6	-7.1	-19.16	0.00	-14.73	0.00
8.000	-0.8	-8.8	-21.40	0.00	-16.46	0.00
8.000	0.9	10.0	22.19	0.00	17.07	0.00
8.100	0.8	8.4	20.44	0.00	15.72	0.00
8.200	0.6	6.7	18.38	0.00	14.14	0.00
8.300	0.5	5.1	16.06	0.00	12.35	0.00
8.400	0.3	3.5	13.51	0.00	10.40	0.00
8.500	0.2	1.8	10.79	0.00	8.30	0.00
8.600	0.0	0.1	-9.35	0.00	-7.19	0.00
8.700	-0.1	-1.6	-11.93	0.00	-9.18	0.00
8.800	-0.3	-3.3	-14.70	0.00	-11.30	0.00
8.900	-0.4	-4.9	-17.59	0.00	-13.53	0.00
9.000	-0.6	-6.6	-20.59	0.00	-15.84	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-123.5	109.2
1.100	151.3	-121.7	111.0
1.200	151.3	-119.9	112.8
1.300	151.3	-118.1	114.6
1.400	151.3	-116.3	116.4
1.500	151.3	-114.6	118.2
1.600	151.3	-112.6	120.1
1.700	151.3	-110.8	121.9
1.800	151.3	-109.0	123.7
1.900	151.3	-107.2	125.5
2.000	151.3	-105.4	127.3
2.000	151.3	-105.4	106.8
2.100	151.3	-124.1	108.6
2.200	151.3	-122.3	110.4
2.300	151.3	-120.5	112.2
2.400	151.3	-118.7	114.0
2.500	151.3	-116.9	115.8
2.600	151.3	-115.0	117.7
2.700	151.3	-113.2	119.5
2.800	151.3	-111.4	121.3
2.900	151.3	-109.6	123.1
3.000	151.3	-107.8	117.1
3.000	151.3	-107.8	107.5
3.100	151.3	-123.5	109.3
3.200	151.3	-121.7	111.1
3.300	151.3	-119.9	112.9
3.400	151.3	-118.1	114.7
3.500	151.3	-116.3	116.4
3.600	151.3	-114.4	118.4
3.700	151.3	-112.6	120.2
3.800	151.3	-110.8	122.0
3.900	151.3	-109.0	123.8
4.000	151.3	-107.2	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-107.2	107.3
4.100	151.3	-123.7	109.1
4.200	151.3	-121.9	110.9
4.300	151.3	-120.1	112.7
4.400	151.3	-118.3	114.5
4.500	151.3	-116.5	116.3
4.600	151.3	-114.6	118.2
4.700	151.3	-112.8	120.0
4.800	151.3	-111.0	121.8
4.900	151.3	-109.2	123.6
5.000	151.3	-107.4	117.1
5.000	151.3	-107.4	107.4
5.100	151.3	-123.6	109.2
5.200	151.3	-121.8	111.0
5.300	151.3	-120.0	112.8
5.400	151.3	-118.2	114.6
5.500	151.3	-116.4	116.4
5.600	151.3	-114.5	118.3
5.700	151.3	-112.7	120.1
5.800	151.3	-110.9	121.9
5.900	151.3	-109.1	123.7
6.000	151.3	-107.3	117.1
6.000	151.3	-107.3	107.2
6.100	151.3	-123.8	109.0
6.200	151.3	-122.0	110.8
6.300	151.3	-120.2	112.6
6.400	151.3	-118.4	114.4
6.500	151.3	-116.6	116.2
6.600	151.3	-114.7	118.1
6.700	151.3	-112.9	119.9
6.800	151.3	-111.1	121.7
6.900	151.3	-109.3	123.5
7.000	151.3	-107.5	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-107.5	107.8
7.100	151.3	-123.1	109.6
7.200	151.3	-121.3	111.4
7.300	151.3	-119.5	113.2
7.400	151.3	-117.7	115.0
7.500	151.3	-115.9	116.8
7.600	151.3	-114.0	118.7
7.700	151.3	-112.2	120.5
7.800	151.3	-110.4	122.3
7.900	151.3	-108.6	124.1
8.000	151.3	-106.8	117.2
8.000	151.3	-106.8	105.4
8.100	151.3	-125.5	107.2
8.200	151.3	-123.7	109.0
8.300	151.3	-121.9	110.8
8.400	151.3	-120.1	112.6
8.500	151.3	-118.3	114.4
8.600	151.3	-116.4	116.3
8.700	151.3	-114.6	118.1
8.800	151.3	-112.8	119.9
8.900	151.3	-111.0	121.7
9.000	151.3	-109.2	117.0

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	75.98	5.31	0.00	79.6
1.100	58.17	6.31	0.00	94.7
1.200	28.84	7.68	0.00	115.2
1.300	19.14	9.60	0.00	144.1
1.400	14.36	12.46	0.00	186.8
1.500	10.62	16.95	0.00	159.3
1.600	8.33	24.74	0.00	125.0
1.700	6.90	40.35	0.00	103.5
1.800	5.93	83.14	0.00	89.0
1.900	5.25	288.18	0.00	78.7
2.000	4.75	292.30	0.00	71.3
2.000	4.75	5.04	0.00	71.3
2.100	57.00	5.67	0.00	85.1
2.200	56.17	6.63	0.00	99.5
2.300	29.87	8.02	0.00	120.3
2.400	18.66	10.10	0.00	151.5
2.500	13.12	13.41	0.00	196.8
2.600	9.93	19.16	0.00	148.9
2.700	7.92	30.67	0.00	118.8
2.800	6.59	44.42	0.00	98.8
2.900	5.66	45.07	0.00	84.9
3.000	5.01	42.86	0.00	75.2
3.000	5.01	5.01	0.00	75.1
3.100	55.69	5.67	0.00	85.1
3.200	54.88	6.61	0.00	99.2
3.300	30.20	7.98	0.00	119.7
3.400	18.89	10.03	0.00	150.5
3.500	13.25	13.30	0.00	198.8
3.600	9.99	18.98	0.00	149.8
3.700	7.95	30.35	0.00	119.2
3.800	6.59	54.03	0.00	98.9
3.900	5.65	54.83	0.00	84.8
4.000	4.99	51.89	0.00	74.9

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	4.99	5.00	0.00	74.9
4.100	55.69	5.66	0.00	84.9
4.200	54.88	6.60	0.00	99.0
4.300	30.28	7.96	0.00	119.4
4.400	18.94	10.01	0.00	150.1
4.500	13.29	13.26	0.00	198.9
4.600	10.01	18.93	0.00	150.2
4.700	7.97	30.26	0.00	119.5
4.800	6.60	54.78	0.00	99.1
4.900	5.66	55.58	0.00	85.0
5.000	5.00	52.68	0.00	75.0
5.000	5.00	5.00	0.00	75.0
5.100	55.58	5.66	0.00	85.0
5.200	54.78	6.60	0.00	99.1
5.300	30.26	7.97	0.00	119.5
5.400	18.93	10.01	0.00	150.2
5.500	13.28	13.27	0.00	199.1
5.600	10.01	18.94	0.00	150.1
5.700	7.96	30.28	0.00	119.4
5.800	6.60	54.88	0.00	99.0
5.900	5.66	55.69	0.00	84.9
6.000	5.00	52.75	0.00	75.0
6.000	5.00	4.99	0.00	74.9
6.100	54.83	5.65	0.00	84.8
6.200	54.03	6.59	0.00	98.9
6.300	30.35	7.95	0.00	119.2
6.400	18.98	9.99	0.00	149.8
6.500	13.31	13.23	0.00	198.5
6.600	10.03	18.89	0.00	150.5
6.700	7.98	30.20	0.00	119.7
6.800	6.61	54.88	0.00	99.2
6.900	5.67	55.69	0.00	85.1
7.000	5.01	52.81	0.00	75.1

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 2F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	5.01	5.01	0.00	75.1
7.100	45.07	5.66	0.00	84.9
7.200	44.42	6.59	0.00	98.8
7.300	30.67	7.92	0.00	118.8
7.400	19.16	9.93	0.00	148.9
7.500	13.42	13.11	0.00	196.6
7.600	10.10	18.66	0.00	151.5
7.700	8.02	29.87	0.00	120.3
7.800	6.63	56.17	0.00	99.5
7.900	5.67	57.00	0.00	85.1
8.000	4.99	53.80	0.00	74.9
8.000	4.99	4.75	0.00	71.3
8.100	288.17	5.25	0.00	78.7
8.200	83.14	5.93	0.00	89.0
8.300	40.35	6.90	0.00	103.5
8.400	24.74	8.33	0.00	125.0
8.500	16.97	10.61	0.00	159.1
8.600	12.46	14.36	0.00	186.8
8.700	9.60	19.14	0.00	144.1
8.800	7.68	28.84	0.00	115.2
8.900	6.31	58.17	0.00	94.7
9.000	5.31	999.00	0.00	79.6

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

2F1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
1.000 79.4	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
1.100 94.3	279.4	279.4	-279.4	-279.4	264.5	264.5	-294.3	-2
1.200 05.0	279.4	279.4	-279.4	-279.4	253.8	253.8	-305.0	-3
1.300 11.3	279.4	279.4	-279.4	-279.4	247.5	247.5	-311.3	-3
1.400 13.3	279.4	279.4	-279.4	-279.4	245.5	245.5	-313.3	-3
1.500 11.1	279.4	279.4	-279.4	-279.4	247.7	247.7	-311.1	-3
1.600 04.3	279.4	279.4	-279.4	-279.4	254.5	254.5	-304.3	-3
1.700 93.1	279.4	279.4	-279.4	-279.4	265.7	265.7	-293.1	-2
1.800 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
1.900 58.0	279.4	279.4	-279.4	-279.4	300.8	300.8	-258.0	-2
2.000 34.0	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
2.000 34.0	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
2.100 54.7	279.4	279.4	-279.4	-279.4	304.1	304.1	-254.7	-2
2.200 71.1	279.4	279.4	-279.4	-279.4	287.7	287.7	-271.1	-2
2.300 83.2	279.4	279.4	-279.4	-279.4	275.6	275.6	-283.2	-2
2.400 91.0	279.4	279.4	-279.4	-279.4	267.8	267.8	-291.0	-2
2.500 94.5	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
2.600 93.4	279.4	279.4	-279.4	-279.4	265.4	265.4	-293.4	-2
2.700 88.0	279.4	279.4	-279.4	-279.4	270.8	270.8	-288.0	-2
2.800 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
2.900 64.4	279.4	279.4	-279.4	-279.4	294.4	294.4	-264.4	-2





## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

2F1

Span g tt.	Moment Capacity		Available Capacity for LL+I	
	Positive Bending Top	Negative Bending Bott.	Positive Bending Top	Negative Bending Bott.
4.000 42.8	279.4	279.4	316.0	316.0
4.100 62.4	279.4	279.4	296.4	296.4
4.200 77.7	279.4	279.4	281.1	281.1
4.300 88.7	279.4	279.4	270.1	270.1
4.400 95.4	279.4	279.4	263.4	263.4
4.500 97.8	279.4	279.4	261.0	261.0
4.600 95.6	279.4	279.4	263.2	263.2
4.700 89.1	279.4	279.4	269.7	269.7
4.800 78.4	279.4	279.4	280.4	280.4
4.900 63.3	279.4	279.4	295.5	295.5
5.000 43.9	279.4	279.4	314.9	314.9
5.000 43.9	279.4	279.4	314.9	314.9
5.100 63.3	279.4	279.4	295.5	295.5
5.200 78.4	279.4	279.4	280.4	280.4
5.300 89.1	279.4	279.4	269.7	269.7
5.400 95.6	279.4	279.4	263.2	263.2
5.500 97.8	279.4	279.4	261.0	261.0
5.600 95.4	279.4	279.4	263.4	263.4
5.700 88.7	279.4	279.4	270.1	270.1
5.800 77.7	279.4	279.4	281.1	281.1
5.900 62.4	279.4	279.4	296.4	296.4



SERVICEABILITY CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
 Rating Live Load: 2F1

Span g tt.	Moment Capacity				Available Capacity for LL+I				
	Positive Bending		Negative Bending		Positive Bending		Negative Bending		
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo	
46.2	7.000	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
64.4	7.100	279.4	279.4	-279.4	-279.4	294.4	294.4	-264.4	-2
78.4	7.200	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
88.0	7.300	279.4	279.4	-279.4	-279.4	270.8	270.8	-288.0	-2
93.4	7.400	279.4	279.4	-279.4	-279.4	265.4	265.4	-293.4	-2
94.5	7.500	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
91.0	7.600	279.4	279.4	-279.4	-279.4	267.8	267.8	-291.0	-2
83.2	7.700	279.4	279.4	-279.4	-279.4	275.6	275.6	-283.2	-2
71.1	7.800	279.4	279.4	-279.4	-279.4	287.7	287.7	-271.1	-2
54.7	7.900	279.4	279.4	-279.4	-279.4	304.1	304.1	-254.7	-2
34.0	8.000	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
34.0	8.000	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
58.0	8.100	279.4	279.4	-279.4	-279.4	300.8	300.8	-258.0	-2
77.7	8.200	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
93.1	8.300	279.4	279.4	-279.4	-279.4	265.7	265.7	-293.1	-2
04.3	8.400	279.4	279.4	-279.4	-279.4	254.5	254.5	-304.3	-3
11.1	8.500	279.4	279.4	-279.4	-279.4	247.7	247.7	-311.1	-3
13.3	8.600	279.4	279.4	-279.4	-279.4	245.5	245.5	-313.3	-3
11.3	8.700	279.4	279.4	-279.4	-279.4	247.5	247.5	-311.3	-3
05.0	8.800	279.4	279.4	-279.4	-279.4	253.8	253.8	-305.0	-3
94.3	8.900	279.4	279.4	-279.4	-279.4	264.5	264.5	-294.3	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	6.28	75.71	6.28	75.71	0.00	94.3
1.200	3.61	39.22	3.61	39.22	0.00	54.2
1.300	2.89	26.69	2.89	26.69	0.00	43.4
1.400	2.74	20.15	2.74	20.15	0.00	41.2
1.500	2.92	16.00	2.92	16.00	0.00	43.7
1.600	3.21	13.04	3.21	13.04	0.00	48.1
1.700	4.17	10.77	4.17	10.77	0.00	62.5
1.800	6.99	8.93	6.99	8.93	0.00	104.9
1.900	26.70	7.37	26.70	7.37	0.00	110.6
2.000	31.18	4.54	31.18	4.54	0.00	68.1
2.000	31.18	4.54	31.18	4.54	0.00	68.1
2.100	18.60	5.66	18.60	5.66	0.00	84.9
2.200	6.73	7.05	6.73	7.05	0.00	100.9
2.300	4.48	8.87	4.48	8.87	0.00	67.2
2.400	3.75	11.46	3.75	11.46	0.00	56.3
2.500	3.67	15.62	3.67	15.62	0.00	55.1
2.600	3.76	14.08	3.76	14.08	0.00	56.4
2.700	4.52	11.06	4.52	11.06	0.00	67.7
2.800	6.91	8.91	6.91	8.91	0.00	103.6
2.900	20.82	7.25	20.82	7.25	0.00	108.8
3.000	22.65	5.78	22.65	5.78	0.00	86.7
3.000	22.65	5.78	22.65	5.78	0.00	86.7
3.100	20.23	7.14	20.23	7.14	0.00	107.0
3.200	6.83	8.81	6.83	8.81	0.00	102.5
3.300	4.48	11.02	4.48	11.02	0.00	67.2
3.400	3.74	14.15	3.74	14.15	0.00	56.1
3.500	3.66	19.18	3.66	19.18	0.00	54.8
3.600	3.75	14.35	3.75	14.35	0.00	56.3
3.700	4.51	11.15	4.51	11.15	0.00	67.7
3.800	6.91	8.90	6.91	8.90	0.00	103.6
3.900	20.64	7.18	20.64	7.18	0.00	107.7
4.000	27.70	5.79	27.70	5.79	0.00	86.9

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	27.70	5.79	27.70	5.79	0.00	86.9
4.100	20.62	7.17	20.62	7.17	0.00	107.5
4.200	6.92	8.87	6.92	8.87	0.00	103.7
4.300	4.53	11.11	4.53	11.11	0.00	67.9
4.400	3.77	14.29	3.77	14.29	0.00	56.5
4.500	3.67	19.40	3.67	19.40	0.00	55.1
4.600	3.76	14.32	3.76	14.32	0.00	56.4
4.700	4.52	11.14	4.52	11.14	0.00	67.8
4.800	6.90	8.90	6.90	8.90	0.00	103.5
4.900	20.57	7.20	20.57	7.20	0.00	108.0
5.000	28.02	5.82	28.02	5.82	0.00	87.4
5.000	28.02	5.82	28.02	5.82	0.00	87.4
5.100	20.57	7.20	20.57	7.20	0.00	108.0
5.200	6.90	8.90	6.90	8.90	0.00	103.5
5.300	4.52	11.14	4.52	11.14	0.00	67.8
5.400	3.76	14.32	3.76	14.32	0.00	56.4
5.500	3.67	19.40	3.67	19.40	0.00	55.1
5.600	3.77	14.29	3.77	14.29	0.00	56.5
5.700	4.53	11.11	4.53	11.11	0.00	67.9
5.800	6.92	8.87	6.92	8.87	0.00	103.7
5.900	20.62	7.17	20.62	7.17	0.00	107.5
6.000	27.70	5.79	27.70	5.79	0.00	86.9
6.000	27.70	5.79	27.70	5.79	0.00	86.9
6.100	20.64	7.18	20.64	7.18	0.00	107.7
6.200	6.91	8.90	6.91	8.90	0.00	103.6
6.300	4.51	11.15	4.51	11.15	0.00	67.7
6.400	3.75	14.35	3.75	14.35	0.00	56.3
6.500	3.66	19.18	3.66	19.18	0.00	54.8
6.600	3.74	14.15	3.74	14.15	0.00	56.1
6.700	4.48	11.02	4.48	11.02	0.00	67.3
6.800	6.83	8.81	6.83	8.81	0.00	102.5
6.900	20.23	7.14	20.23	7.14	0.00	107.0
7.000	22.65	5.78	22.65	5.78	0.00	86.7

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 2F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	22.65	5.78	22.65	5.78	0.00	86.7
7.100	20.82	7.25	20.82	7.25	0.00	108.8
7.200	6.91	8.91	6.91	8.91	0.00	103.6
7.300	4.52	11.06	4.52	11.06	0.00	67.7
7.400	3.76	14.08	3.76	14.08	0.00	56.4
7.500	3.67	15.62	3.67	15.62	0.00	55.1
7.600	3.75	11.46	3.75	11.46	0.00	56.3
7.700	4.48	8.87	4.48	8.87	0.00	67.2
7.800	6.73	7.05	6.73	7.05	0.00	100.9
7.900	18.60	5.66	18.60	5.66	0.00	84.9
8.000	31.18	4.54	31.18	4.54	0.00	68.1
8.000	31.18	4.54	31.18	4.54	0.00	68.1
8.100	26.70	7.37	26.70	7.37	0.00	110.6
8.200	6.99	8.93	6.99	8.93	0.00	104.9
8.300	4.17	10.77	4.17	10.77	0.00	62.5
8.400	3.21	13.04	3.21	13.04	0.00	48.1
8.500	2.92	16.00	2.92	16.00	0.00	43.7
8.600	2.74	20.15	2.74	20.15	0.00	41.2
8.700	2.89	26.69	2.89	26.69	0.00	43.4
8.800	3.61	39.22	3.61	39.22	0.00	54.2
8.900	6.28	75.71	6.28	75.71	0.00	94.3
9.000	999.00	999.00	999.00	999.00	0.00	999.0



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	13.7	56.95 R	0.00	43.80	0.00
1.200	2.1	23.5	93.58 R	0.00	71.99	0.00
1.300	2.6	29.3	111.73 R	0.00	85.95	0.00
1.400	2.8	31.2	118.12 R	0.00	90.86	0.00
1.500	2.6	29.1	115.12 R	0.00	88.55	0.00
1.600	2.0	22.8	100.67 L	0.00	77.44	0.00
1.700	1.1	12.6	81.13 L	0.00	62.41	0.00
1.800	-0.2	-1.5	48.36 L	0.00	37.20	0.00
1.900	-1.8	-19.6	-50.20 R	0.00	-38.61	0.00
2.000	-3.8	-41.7	-76.75 R	0.00	-59.04	0.00
2.000	-3.8	-41.7	-76.75 R	0.00	-59.04	0.00
2.100	-2.1	-22.7	-64.36 L	0.00	-49.51	0.00
2.200	-0.7	-7.6	-55.01 L	0.00	-42.32	0.00
2.300	0.3	3.5	77.76 R	0.00	59.81	0.00
2.400	0.9	10.7	90.64 R	0.00	69.72	0.00
2.500	1.2	13.9	95.59 R	0.00	73.53	0.00
2.600	1.1	12.9	89.38 L	0.00	68.76	0.00
2.700	0.7	8.0	75.56 L	0.00	58.12	0.00
2.800	-0.1	-0.9	49.01 L	0.00	37.70	0.00
2.900	-1.3	-13.7	-52.30 R	0.00	-40.23	0.00
3.000	-2.8	-30.5	-68.95 R	0.00	-53.04	0.00
3.000	-2.8	-30.5	-68.95 R	0.00	-53.04	0.00
3.100	-1.2	-12.9	-53.32 L	0.00	-41.02	0.00
3.200	0.0	0.7	49.29 R	0.00	37.91	0.00
3.300	0.9	10.4	75.32 R	0.00	57.94	0.00
3.400	1.4	16.1	88.66 R	0.00	68.20	0.00
3.500	1.6	18.0	94.19 R	0.00	72.45	0.00
3.600	1.4	15.5	88.57 L	0.00	68.13	0.00
3.700	0.8	9.2	75.16 L	0.00	57.82	0.00
3.800	-0.1	-1.1	49.05 L	0.00	37.73	0.00
3.900	-1.4	-15.4	-52.46 R	0.00	-40.35	0.00
4.000	-3.0	-33.5	-68.42 R	0.00	-52.63	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-33.5	-68.42 R 0.00	-52.63 0.00
4.100	-1.4	-15.6	-52.53 L 0.00	-40.41 0.00
4.200	-0.2	-1.5	49.07 R 0.00	37.75 0.00
4.300	0.7	8.6	75.15 R 0.00	57.80 0.00
4.400	1.3	14.7	88.52 R 0.00	68.09 0.00
4.500	1.5	16.9	94.09 R 0.00	72.37 0.00
4.600	1.3	14.9	88.52 L 0.00	68.09 0.00
4.700	0.8	9.0	75.13 L 0.00	57.80 0.00
4.800	-0.1	-0.9	49.06 L 0.00	37.74 0.00
4.900	-1.3	-14.8	-52.47 R 0.00	-40.36 0.00
5.000	-2.9	-32.5	-68.38 R 0.00	-52.60 0.00
5.000	-2.9	-32.5	-68.38 R 0.00	-52.60 0.00
5.100	-1.3	-14.8	-52.47 L 0.00	-40.36 0.00
5.200	-0.1	-0.9	49.06 R 0.00	37.74 0.00
5.300	0.8	9.0	75.13 R 0.00	57.80 0.00
5.400	1.3	14.9	88.52 R 0.00	68.09 0.00
5.500	1.5	16.9	94.09 L 0.00	72.37 0.00
5.600	1.3	14.7	88.52 L 0.00	68.09 0.00
5.700	0.7	8.6	75.15 L 0.00	57.80 0.00
5.800	-0.2	-1.5	49.07 L 0.00	37.75 0.00
5.900	-1.4	-15.6	-52.53 R 0.00	-40.41 0.00
6.000	-3.0	-33.5	-68.37 R 0.00	-52.59 0.00
6.000	-3.0	-33.5	-68.37 R 0.00	-52.59 0.00
6.100	-1.4	-15.4	-52.46 L 0.00	-40.35 0.00
6.200	-0.1	-1.1	49.05 R 0.00	37.73 0.00
6.300	0.8	9.2	75.16 R 0.00	57.82 0.00
6.400	1.4	15.5	88.57 R 0.00	68.13 0.00
6.500	1.6	18.0	94.19 L 0.00	72.45 0.00
6.600	1.4	16.1	88.66 L 0.00	68.20 0.00
6.700	0.9	10.4	75.32 L 0.00	57.94 0.00
6.800	0.0	0.7	49.29 L 0.00	37.91 0.00
6.900	-1.2	-12.9	-53.32 R 0.00	-41.02 0.00
7.000	-2.8	-30.5	-68.88 L 0.00	-52.98 0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-30.5	-68.88 L 0.00	-52.98 0.00
7.100	-1.3	-13.7	-52.31 L 0.00	-40.23 0.00
7.200	-0.1	-0.9	49.01 R 0.00	37.70 0.00
7.300	0.7	8.0	75.56 R 0.00	58.13 0.00
7.400	1.1	12.9	89.38 R 0.00	68.76 0.00
7.500	1.2	13.9	95.59 L 0.00	73.53 0.00
7.600	0.9	10.7	90.64 L 0.00	69.72 0.00
7.700	0.3	3.5	77.76 L 0.00	59.81 0.00
7.800	-0.7	-7.6	-55.01 R 0.00	-42.32 0.00
7.900	-2.1	-22.7	-64.36 R 0.00	-49.51 0.00
8.000	-3.8	-41.7	-76.75 L 0.00	-59.04 0.00
8.000	-3.8	-41.7	-76.75 L 0.00	-59.04 0.00
8.100	-1.8	-19.6	-50.20 L 0.00	-38.61 0.00
8.200	-0.2	-1.5	48.36 R 0.00	37.20 0.00
8.300	1.1	12.6	81.13 R 0.00	62.41 0.00
8.400	2.0	22.8	100.67 R 0.00	77.44 0.00
8.500	2.6	29.1	115.12 L 0.00	88.55 0.00
8.600	2.8	31.2	118.12 L 0.00	90.86 0.00
8.700	2.6	29.3	111.73 L 0.00	85.95 0.00
8.800	2.1	23.5	93.58 L 0.00	71.99 0.00
8.900	1.2	13.7	56.95 L 0.00	43.80 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6	1.100	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.
2	1.200	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
5	1.300	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
6	1.400	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
3	1.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
5	1.600	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
4	1.700	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
9	1.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
2	1.900	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
9	2.100	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
3	2.200	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
4	2.300	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
2	2.400	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
7	2.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
6	2.600	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
3	2.700	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
6	2.900	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.

4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
5	3.100	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	3.200	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
9	3.300	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
2	3.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
2	3.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
5	3.600	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
6	3.700	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
4	3.800	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
9	3.900	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
1	4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
4.100	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.
4.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4.300	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
4.400	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
4.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
4.600	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
4.700	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
4.900	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.100	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
5.300	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
5.400	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
5.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
5.600	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
5.700	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
5.900	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.

1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
9	6.100	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
4	6.200	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
5	6.400	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
2	6.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
2	6.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
9	6.700	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
4	6.800	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
5	6.900	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
6	7.100	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.
6	7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	7.300	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	7.400	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
7	7.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
2	7.600	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
4	7.700	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
3	7.800	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
9	7.900	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.100	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
9	8.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4	8.300	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
5	8.400	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
3	8.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
6	8.600	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
5	8.700	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
2	8.800	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
6	8.900	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.



9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

## Moment

Span	Rating Factor		Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.02	50.85	4.46	56.58	0.00	102.5
1.200	2.94	26.38	2.60	29.24	0.00	59.7
1.300	2.40	17.96	2.12	19.88	0.00	48.7
1.400	2.26	13.56	1.99	15.00	0.00	45.7
1.500	2.34	10.77	2.06	11.92	0.00	47.3
1.600	2.74	8.77	2.42	9.73	0.00	55.7
1.700	3.54	7.23	3.14	8.05	0.00	72.3
1.800	6.25	5.98	5.59	6.70	0.00	128.6
1.900	23.94	4.93	21.57	5.56	0.00	113.3
2.000	23.16	2.91	21.02	3.33	0.00	66.9
2.000	23.16	2.91	21.02	3.33	0.00	66.9
2.100	22.95	3.79	20.70	4.29	0.00	87.2
2.200	5.91	4.73	5.30	5.31	0.00	108.8
2.300	3.82	5.97	3.41	6.66	0.00	78.4
2.400	3.19	7.72	2.84	8.60	0.00	65.2
2.500	2.99	10.52	2.65	11.70	0.00	61.0
2.600	3.21	9.46	2.85	10.53	0.00	65.5
2.700	3.86	7.42	3.44	8.28	0.00	79.1
2.800	6.16	5.97	5.50	6.68	0.00	126.6
2.900	22.52	4.85	20.24	5.46	0.00	111.5
3.000	16.91	3.41	15.29	3.88	0.00	78.5
3.000	16.91	3.41	15.29	3.88	0.00	78.5
3.100	18.25	4.77	16.40	5.37	0.00	109.8
3.200	6.09	5.91	5.44	6.61	0.00	125.0
3.300	3.84	7.40	3.42	8.24	0.00	78.6
3.400	3.19	9.51	2.83	10.57	0.00	65.1
3.500	2.98	12.89	2.64	14.32	0.00	60.8
3.600	3.20	9.64	2.84	10.72	0.00	65.4
3.700	3.87	7.48	3.44	8.34	0.00	79.2
3.800	6.15	5.96	5.50	6.68	0.00	126.6
3.900	22.58	4.80	20.31	5.41	0.00	110.4
4.000	20.61	3.39	18.65	3.86	0.00	78.0

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		bottom fiber		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	+bend	-bend		
4.000	20.61	3.39	18.65	3.86	0.00	78.0
4.100	22.23	4.79	19.99	5.40	0.00	110.2
4.200	6.16	5.95	5.51	6.66	0.00	126.7
4.300	3.88	7.46	3.45	8.31	0.00	79.4
4.400	3.21	9.60	2.85	10.68	0.00	65.6
4.500	3.00	13.04	2.66	14.49	0.00	61.2
4.600	3.21	9.62	2.85	10.70	0.00	65.6
4.700	3.87	7.48	3.45	8.34	0.00	79.3
4.800	6.15	5.97	5.50	6.68	0.00	126.4
4.900	22.50	4.81	20.23	5.42	0.00	110.7
5.000	20.85	3.41	18.87	3.88	0.00	78.4
5.000	20.85	3.41	18.87	3.88	0.00	78.4
5.100	22.50	4.81	20.23	5.42	0.00	110.7
5.200	6.15	5.97	5.50	6.68	0.00	126.4
5.300	3.87	7.48	3.45	8.34	0.00	79.3
5.400	3.21	9.62	2.85	10.70	0.00	65.6
5.500	3.00	13.04	2.66	14.49	0.00	61.2
5.600	3.21	9.60	2.85	10.68	0.00	65.6
5.700	3.88	7.46	3.45	8.31	0.00	79.4
5.800	6.16	5.95	5.51	6.66	0.00	126.7
5.900	22.23	4.79	19.99	5.40	0.00	110.2
6.000	20.61	3.39	18.65	3.86	0.00	78.1
6.000	20.61	3.39	18.65	3.86	0.00	78.1
6.100	22.58	4.80	20.31	5.41	0.00	110.4
6.200	6.15	5.96	5.50	6.68	0.00	126.6
6.300	3.87	7.48	3.44	8.34	0.00	79.2
6.400	3.20	9.64	2.84	10.72	0.00	65.4
6.500	2.98	12.89	2.64	14.32	0.00	60.8
6.600	3.19	9.51	2.83	10.57	0.00	65.1
6.700	3.84	7.40	3.42	8.24	0.00	78.6
6.800	6.09	5.91	5.44	6.61	0.00	125.0
6.900	18.25	4.77	16.40	5.37	0.00	109.8
7.000	16.91	3.42	15.29	3.88	0.00	78.6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 3F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	16.91	3.42	15.29	3.88	0.00	78.6
7.100	22.52	4.85	20.24	5.46	0.00	111.5
7.200	6.16	5.97	5.50	6.68	0.00	126.6
7.300	3.86	7.42	3.44	8.28	0.00	79.1
7.400	3.21	9.46	2.85	10.53	0.00	65.5
7.500	2.99	10.52	2.65	11.70	0.00	61.0
7.600	3.19	7.72	2.84	8.60	0.00	65.2
7.700	3.82	5.97	3.41	6.66	0.00	78.4
7.800	5.91	4.73	5.30	5.31	0.00	108.8
7.900	22.95	3.79	20.70	4.29	0.00	87.2
8.000	23.16	2.91	21.02	3.33	0.00	66.9
8.000	23.16	2.91	21.02	3.33	0.00	66.9
8.100	23.94	4.93	21.57	5.56	0.00	113.3
8.200	6.25	5.98	5.59	6.70	0.00	128.6
8.300	3.54	7.23	3.14	8.05	0.00	72.3
8.400	2.74	8.77	2.42	9.73	0.00	55.7
8.500	2.34	10.77	2.06	11.92	0.00	47.3
8.600	2.26	13.56	1.99	15.00	0.00	45.7
8.700	2.40	17.96	2.12	19.87	0.00	48.7
8.800	2.94	26.38	2.60	29.24	0.00	59.7
8.900	5.02	50.85	4.46	56.58	0.00	102.5
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	6.6	28.25	0.00	21.73	0.00
1.100	0.4	4.9	23.81	0.00	18.32	0.00
1.200	0.3	3.3	19.56	0.00	15.05	0.00
1.300	0.1	1.6	15.57	0.00	11.98	0.00
1.400	0.0	-0.1	11.89	0.00	9.15	0.00
1.500	-0.2	-1.7	-14.22	0.00	-10.94	0.00
1.600	-0.3	-3.5	-17.46	0.00	-13.43	0.00
1.700	-0.5	-5.1	-21.53	0.00	-16.56	0.00
1.800	-0.6	-6.7	-25.31	0.00	-19.47	0.00
1.900	-0.8	-8.4	-28.72	0.00	-22.10	0.00
2.000	-0.9	-10.0	-31.72	0.00	-24.40	0.00
2.000	0.8	-10.0	29.85	0.00	22.96	0.00
2.100	0.6	7.1	26.41	0.00	20.31	0.00
2.200	0.5	5.5	22.50	0.00	17.31	0.00
2.300	0.3	3.8	18.48	0.00	14.21	0.00
2.400	0.2	2.2	14.50	0.00	11.16	0.00
2.500	0.0	0.5	-11.05	0.00	-8.50	0.00
2.600	-0.1	-1.2	-14.90	0.00	-11.46	0.00
2.700	-0.3	-2.9	-18.91	0.00	-14.54	0.00
2.800	-0.4	-4.5	-22.91	0.00	-17.62	0.00
2.900	-0.6	-6.2	-26.76	0.00	-20.58	0.00
3.000	-0.7	-7.8	-30.29	0.00	-23.30	0.00
3.000	0.7	8.2	30.17	0.00	23.21	0.00
3.100	0.6	6.5	26.59	0.00	20.46	0.00
3.200	0.4	4.9	22.71	0.00	17.47	0.00
3.300	0.3	3.2	18.69	0.00	14.37	0.00
3.400	0.1	1.6	14.69	0.00	11.30	0.00
3.500	0.0	-0.1	-10.90	0.00	-8.38	0.00
3.600	-0.2	-1.8	-14.72	0.00	-11.32	0.00
3.700	-0.3	-3.5	-18.72	0.00	-14.40	0.00
3.800	-0.5	-5.1	-22.74	0.00	-17.49	0.00
3.900	-0.6	-6.8	-26.62	0.00	-20.48	0.00
4.000	-0.8	-8.4	-30.19	0.00	-23.22	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-8.4	30.18	0.00	23.21	0.00
4.100	0.6	6.7	26.61	0.00	20.47	0.00
4.200	0.5	5.0	22.73	0.00	17.48	0.00
4.300	0.3	3.4	18.70	0.00	14.39	0.00
4.400	0.2	1.8	14.70	0.00	11.31	0.00
4.500	0.0	0.1	-10.89	0.00	8.37	0.00
4.600	-0.1	-1.7	-14.70	0.00	-11.31	0.00
4.700	-0.3	-3.3	-18.70	0.00	-14.39	0.00
4.800	-0.4	-5.0	-22.73	0.00	-17.48	0.00
4.900	-0.6	-6.6	-26.61	0.00	-20.47	0.00
5.000	-0.7	-8.2	-30.18	0.00	-23.21	0.00
5.000	0.7	8.2	30.18	0.00	23.21	0.00
5.100	0.6	6.6	26.61	0.00	20.47	0.00
5.200	0.4	5.0	22.73	0.00	17.48	0.00
5.300	0.3	3.3	18.70	0.00	14.39	0.00
5.400	0.1	1.7	14.70	0.00	11.31	0.00
5.500	0.0	0.1	10.89	0.00	8.37	0.00
5.600	-0.2	-1.8	-14.70	0.00	-11.31	0.00
5.700	-0.3	-3.4	-18.70	0.00	-14.39	0.00
5.800	-0.5	-5.0	-22.73	0.00	-17.48	0.00
5.900	-0.6	-6.7	-26.61	0.00	-20.47	0.00
6.000	-0.7	-8.3	-30.18	0.00	-23.21	0.00
6.000	0.8	8.4	30.19	0.00	23.22	0.00
6.100	0.6	6.8	26.62	0.00	20.48	0.00
6.200	0.5	5.1	22.74	0.00	17.49	0.00
6.300	0.3	3.5	18.72	0.00	14.40	0.00
6.400	0.2	1.8	14.72	0.00	11.32	0.00
6.500	0.0	0.2	10.90	0.00	8.38	0.00
6.600	-0.1	-1.6	-14.69	0.00	-11.30	0.00
6.700	-0.3	-3.2	-18.69	0.00	-14.37	0.00
6.800	-0.4	-4.9	-22.71	0.00	-17.47	0.00
6.900	-0.6	-6.5	-26.59	0.00	-20.46	0.00
7.000	-0.7	-8.2	-30.17	0.00	-23.21	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-8.2	30.29	0.00	23.30	0.00
7.100	0.6	6.2	26.76	0.00	20.58	0.00
7.200	0.4	4.5	22.91	0.00	17.62	0.00
7.300	0.3	2.9	18.91	0.00	14.54	0.00
7.400	0.1	1.2	14.90	0.00	11.46	0.00
7.500	0.0	-0.5	11.05	0.00	8.50	0.00
7.600	-0.2	-2.2	-14.50	0.00	-11.16	0.00
7.700	-0.3	-3.8	-18.48	0.00	-14.21	0.00
7.800	-0.5	-5.5	-22.50	0.00	-17.31	0.00
7.900	-0.6	-7.1	-26.41	0.00	-20.31	0.00
8.000	-0.8	-8.8	-30.04	0.00	-23.11	0.00
8.000	0.9	10.0	31.72	0.00	24.40	0.00
8.100	0.8	8.4	28.72	0.00	22.10	0.00
8.200	0.6	6.7	25.31	0.00	19.47	0.00
8.300	0.5	5.1	21.53	0.00	16.56	0.00
8.400	0.3	3.5	17.46	0.00	13.43	0.00
8.500	0.2	1.8	14.22	0.00	10.94	0.00
8.600	0.0	0.1	-11.89	0.00	-9.15	0.00
8.700	-0.1	-1.6	-15.57	0.00	-11.98	0.00
8.800	-0.3	-3.3	-19.56	0.00	-15.05	0.00
8.900	-0.4	-4.9	-23.81	0.00	-18.32	0.00
9.000	-0.6	-6.6	-28.25	0.00	-21.73	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-123.5	109.2
1.100	151.3	-121.7	111.0
1.200	151.3	-119.9	112.8
1.300	151.3	-118.1	114.6
1.400	151.3	-116.3	116.4
1.500	151.3	-114.6	118.2
1.600	151.3	-112.6	120.1
1.700	151.3	-110.8	121.9
1.800	151.3	-109.0	123.7
1.900	151.3	-107.2	125.5
2.000	151.3	-105.4	127.3
2.000	151.3	-105.4	106.8
2.100	151.3	-124.1	108.6
2.200	151.3	-122.3	110.4
2.300	151.3	-120.5	112.2
2.400	151.3	-118.7	114.0
2.500	151.3	-116.9	115.8
2.600	151.3	-115.0	117.7
2.700	151.3	-113.2	119.5
2.800	151.3	-111.4	121.3
2.900	151.3	-109.6	123.1
3.000	151.3	-107.8	117.1
3.000	151.3	-107.8	107.5
3.100	151.3	-123.5	109.3
3.200	151.3	-121.7	111.1
3.300	151.3	-119.9	112.9
3.400	151.3	-118.1	114.7
3.500	151.3	-116.3	116.4
3.600	151.3	-114.4	118.4
3.700	151.3	-112.6	120.2
3.800	151.3	-110.8	122.0
3.900	151.3	-109.0	123.8
4.000	151.3	-107.2	117.1



## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-107.2	107.3
4.100	151.3	-123.7	109.1
4.200	151.3	-121.9	110.9
4.300	151.3	-120.1	112.7
4.400	151.3	-118.3	114.5
4.500	151.3	-116.5	116.3
4.600	151.3	-114.6	118.2
4.700	151.3	-112.8	120.0
4.800	151.3	-111.0	121.8
4.900	151.3	-109.2	123.6
5.000	151.3	-107.4	117.1
5.000	151.3	-107.4	107.4
5.100	151.3	-123.6	109.2
5.200	151.3	-121.8	111.0
5.300	151.3	-120.0	112.8
5.400	151.3	-118.2	114.6
5.500	151.3	-116.4	116.4
5.600	151.3	-114.5	118.3
5.700	151.3	-112.7	120.1
5.800	151.3	-110.9	121.9
5.900	151.3	-109.1	123.7
6.000	151.3	-107.3	117.1
6.000	151.3	-107.3	107.2
6.100	151.3	-123.8	109.0
6.200	151.3	-122.0	110.8
6.300	151.3	-120.2	112.6
6.400	151.3	-118.4	114.4
6.500	151.3	-116.6	116.2
6.600	151.3	-114.7	118.1
6.700	151.3	-112.9	119.9
6.800	151.3	-111.1	121.7
6.900	151.3	-109.3	123.5
7.000	151.3	-107.5	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-107.5	107.8
7.100	151.3	-123.1	109.6
7.200	151.3	-121.3	111.4
7.300	151.3	-119.5	113.2
7.400	151.3	-117.7	115.0
7.500	151.3	-115.9	116.8
7.600	151.3	-114.0	118.7
7.700	151.3	-112.2	120.5
7.800	151.3	-110.4	122.3
7.900	151.3	-108.6	124.1
8.000	151.3	-106.8	117.2
8.000	151.3	-106.8	105.4
8.100	151.3	-125.5	107.2
8.200	151.3	-123.7	109.0
8.300	151.3	-121.9	110.8
8.400	151.3	-120.1	112.6
8.500	151.3	-118.3	114.4
8.600	151.3	-116.4	116.3
8.700	151.3	-114.6	118.1
8.800	151.3	-112.8	119.9
8.900	151.3	-111.0	121.7
9.000	151.3	-109.2	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	52.96	3.87	0.00	88.9
1.100	52.19	4.66	0.00	107.2
1.200	29.13	5.77	0.00	132.6
1.300	15.55	7.36	0.00	169.3
1.400	10.59	9.79	0.00	225.1
1.500	8.06	13.76	0.00	185.3
1.600	6.45	21.13	0.00	148.3
1.700	5.15	37.94	0.00	118.4
1.800	4.31	103.25	0.00	99.1
1.900	3.73	200.87	0.00	85.9
2.000	3.32	203.74	0.00	76.4
2.000	3.32	3.58	0.00	76.4
2.100	39.73	4.11	0.00	94.6
2.200	39.15	4.91	0.00	112.9
2.300	28.43	6.07	0.00	139.7
2.400	15.91	7.86	0.00	180.8
2.500	10.59	10.80	0.00	243.4
2.600	7.72	16.25	0.00	177.5
2.700	5.99	28.73	0.00	137.7
2.800	4.86	31.05	0.00	111.9
2.900	4.10	31.51	0.00	94.2
3.000	3.56	29.96	0.00	81.9
3.000	3.56	3.56	0.00	81.9
3.100	38.81	4.11	0.00	94.5
3.200	38.25	4.89	0.00	112.5
3.300	28.31	6.04	0.00	138.9
3.400	16.02	7.80	0.00	179.5
3.500	10.67	10.71	0.00	245.5
3.600	7.77	16.09	0.00	178.7
3.700	6.01	28.42	0.00	138.3
3.800	4.87	37.67	0.00	112.0
3.900	4.09	38.23	0.00	94.2
4.000	3.55	36.18	0.00	81.7

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.55	3.56	0.00	81.7
4.100	38.82	4.10	0.00	94.3
4.200	38.26	4.88	0.00	112.2
4.300	28.36	6.02	0.00	138.6
4.400	16.06	7.78	0.00	179.1
4.500	10.70	10.68	0.00	245.7
4.600	7.79	16.05	0.00	179.2
4.700	6.03	28.34	0.00	138.7
4.800	4.88	38.18	0.00	112.3
4.900	4.10	38.74	0.00	94.4
5.000	3.56	36.72	0.00	81.8
5.000	3.56	3.56	0.00	81.8
5.100	38.74	4.10	0.00	94.4
5.200	38.18	4.88	0.00	112.3
5.300	28.34	6.03	0.00	138.7
5.400	16.05	7.79	0.00	179.2
5.500	10.69	10.69	0.00	245.8
5.600	7.78	16.06	0.00	179.1
5.700	6.02	28.36	0.00	138.6
5.800	4.88	38.26	0.00	112.2
5.900	4.10	38.82	0.00	94.3
6.000	3.56	36.77	0.00	81.8
6.000	3.56	3.55	0.00	81.7
6.100	38.23	4.09	0.00	94.2
6.200	37.67	4.87	0.00	112.0
6.300	28.42	6.01	0.00	138.3
6.400	16.09	7.77	0.00	178.7
6.500	10.72	10.66	0.00	245.2
6.600	7.80	16.02	0.00	179.5
6.700	6.04	28.31	0.00	138.9
6.800	4.89	38.25	0.00	112.5
6.900	4.11	38.81	0.00	94.5
7.000	3.56	36.81	0.00	81.9

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 3F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.56	3.56	0.00	81.9
7.100	31.51	4.10	0.00	94.2
7.200	31.05	4.86	0.00	111.9
7.300	28.73	5.99	0.00	137.7
7.400	16.25	7.72	0.00	177.5
7.500	10.81	10.57	0.00	243.2
7.600	7.86	15.91	0.00	180.8
7.700	6.07	28.43	0.00	139.7
7.800	4.91	39.15	0.00	112.9
7.900	4.11	39.73	0.00	94.6
8.000	3.56	37.50	0.00	81.8
8.000	3.56	3.32	0.00	76.4
8.100	200.87	3.73	0.00	85.9
8.200	103.24	4.31	0.00	99.1
8.300	37.94	5.15	0.00	118.4
8.400	21.13	6.45	0.00	148.3
8.500	13.78	8.05	0.00	185.0
8.600	9.79	10.59	0.00	225.1
8.700	7.36	15.55	0.00	169.3
8.800	5.77	29.13	0.00	132.6
8.900	4.66	52.19	0.00	107.2
9.000	3.87	999.00	0.00	88.9

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

Span g tt.	Moment Capacity		Available Capacity for LL+I	
	Positive Bending Top	Negative Bending Bott.	Positive Bending Top	Negative Bending Bott.
1.000 79.4	279.4	279.4	-279.4	-279.4
1.100 94.3	279.4	279.4	-279.4	-279.4
1.200 05.0	279.4	279.4	-279.4	-279.4
1.300 11.3	279.4	279.4	-279.4	-279.4
1.400 13.3	279.4	279.4	-279.4	-279.4
1.500 11.1	279.4	279.4	-279.4	-279.4
1.600 04.3	279.4	279.4	-279.4	-279.4
1.700 93.1	279.4	279.4	-279.4	-279.4
1.800 77.7	279.4	279.4	-279.4	-279.4
1.900 58.0	279.4	279.4	-279.4	-279.4
2.000 34.0	279.4	279.4	-279.4	-279.4
2.000 34.0	279.4	279.4	-279.4	-279.4
2.100 54.7	279.4	279.4	-279.4	-279.4
2.200 71.1	279.4	279.4	-279.4	-279.4
2.300 83.2	279.4	279.4	-279.4	-279.4
2.400 91.0	279.4	279.4	-279.4	-279.4
2.500 94.5	279.4	279.4	-279.4	-279.4
2.600 93.4	279.4	279.4	-279.4	-279.4
2.700 88.0	279.4	279.4	-279.4	-279.4
2.800 78.4	279.4	279.4	-279.4	-279.4
2.900 64.4	279.4	279.4	-279.4	-279.4

3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.100 65.3	279.4	279.4	-279.4	-279.4	293.5	293.5	-265.3	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 90.7	279.4	279.4	-279.4	-279.4	268.1	268.1	-290.7	-2
3.400 96.9	279.4	279.4	-279.4	-279.4	261.9	261.9	-296.9	-2
3.500 98.9	279.4	279.4	-279.4	-279.4	259.9	259.9	-298.9	-2
3.600 96.3	279.4	279.4	-279.4	-279.4	262.5	262.5	-296.3	-2
3.700 89.4	279.4	279.4	-279.4	-279.4	269.4	269.4	-289.4	-2
3.800 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
3.900 62.6	279.4	279.4	-279.4	-279.4	296.2	296.2	-262.6	-2
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2
4.100 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2
4.200 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
4.300 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
4.400 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
4.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
4.600 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
4.700 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
4.800 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
4.900 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.100 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.200 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
5.300 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
5.400 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
5.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
5.600 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
5.700 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
5.800 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
5.900 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2





## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

3F1

Span g tt.	Moment Capacity				Available Capacity for LL+I				
	Positive Bending		Negative Bending		Positive Bending		Negative Bending		
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo	
46.2	7.000	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
64.4	7.100	279.4	279.4	-279.4	-279.4	294.4	294.4	-264.4	-2
78.4	7.200	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
88.0	7.300	279.4	279.4	-279.4	-279.4	270.8	270.8	-288.0	-2
93.4	7.400	279.4	279.4	-279.4	-279.4	265.4	265.4	-293.4	-2
94.5	7.500	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
91.0	7.600	279.4	279.4	-279.4	-279.4	267.8	267.8	-291.0	-2
83.2	7.700	279.4	279.4	-279.4	-279.4	275.6	275.6	-283.2	-2
71.1	7.800	279.4	279.4	-279.4	-279.4	287.7	287.7	-271.1	-2
54.7	7.900	279.4	279.4	-279.4	-279.4	304.1	304.1	-254.7	-2
34.0	8.000	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
34.0	8.000	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
58.0	8.100	279.4	279.4	-279.4	-279.4	300.8	300.8	-258.0	-2
77.7	8.200	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
93.1	8.300	279.4	279.4	-279.4	-279.4	265.7	265.7	-293.1	-2
04.3	8.400	279.4	279.4	-279.4	-279.4	254.5	254.5	-304.3	-3
11.1	8.500	279.4	279.4	-279.4	-279.4	247.7	247.7	-311.1	-3
13.3	8.600	279.4	279.4	-279.4	-279.4	245.5	245.5	-313.3	-3
11.3	8.700	279.4	279.4	-279.4	-279.4	247.5	247.5	-311.3	-3
05.0	8.800	279.4	279.4	-279.4	-279.4	253.8	253.8	-305.0	-3
94.3	8.900	279.4	279.4	-279.4	-279.4	264.5	264.5	-294.3	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.64	52.77	4.64	52.77	0.00	106.8
1.200	2.71	27.34	2.71	27.34	0.00	62.4
1.300	2.21	18.60	2.21	18.60	0.00	50.9
1.400	2.08	14.05	2.08	14.05	0.00	47.8
1.500	2.15	11.16	2.15	11.16	0.00	49.5
1.600	2.53	9.09	2.53	9.09	0.00	58.2
1.700	3.28	7.51	3.28	7.51	0.00	75.3
1.800	5.81	6.22	5.81	6.22	0.00	133.7
1.900	22.37	5.14	22.37	5.14	0.00	118.2
2.000	21.74	3.05	21.74	3.05	0.00	70.1
2.000	21.74	3.05	21.74	3.05	0.00	70.1
2.100	21.45	3.96	21.45	3.96	0.00	91.0
2.200	5.51	4.93	5.51	4.93	0.00	113.3
2.300	3.55	6.20	3.55	6.20	0.00	81.5
2.400	2.95	8.01	2.95	8.01	0.00	68.0
2.500	2.77	10.92	2.77	10.92	0.00	63.6
2.600	2.97	9.82	2.97	9.82	0.00	68.3
2.700	3.58	7.71	3.58	7.71	0.00	82.4
2.800	5.72	6.21	5.72	6.21	0.00	131.6
2.900	21.00	5.05	21.00	5.05	0.00	116.3
3.000	15.83	3.57	15.83	3.57	0.00	82.1
3.000	15.83	3.57	15.83	3.57	0.00	82.1
3.100	17.02	4.97	17.02	4.97	0.00	114.4
3.200	5.65	6.15	5.65	6.15	0.00	130.0
3.300	3.56	7.68	3.56	7.68	0.00	81.9
3.400	2.95	9.87	2.95	9.87	0.00	67.9
3.500	2.76	13.37	2.76	13.37	0.00	63.5
3.600	2.96	10.00	2.96	10.00	0.00	68.2
3.700	3.59	7.77	3.59	7.77	0.00	82.4
3.800	5.72	6.20	5.72	6.20	0.00	131.6
3.900	21.07	5.01	21.07	5.01	0.00	115.2
4.000	19.31	3.55	19.31	3.55	0.00	81.6

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	19.31	3.55	19.31	3.55	0.00	81.6
4.100	20.74	4.99	20.74	4.99	0.00	114.9
4.200	5.73	6.18	5.73	6.18	0.00	131.7
4.300	3.59	7.74	3.59	7.74	0.00	82.7
4.400	2.98	9.96	2.98	9.96	0.00	68.4
4.500	2.77	13.52	2.77	13.52	0.00	63.8
4.600	2.97	9.98	2.97	9.98	0.00	68.4
4.700	3.59	7.76	3.59	7.76	0.00	82.5
4.800	5.72	6.21	5.72	6.21	0.00	131.5
4.900	21.00	5.02	21.00	5.02	0.00	115.4
5.000	19.53	3.57	19.53	3.57	0.00	82.1
5.000	19.53	3.57	19.53	3.57	0.00	82.1
5.100	21.00	5.02	21.00	5.02	0.00	115.4
5.200	5.72	6.21	5.72	6.21	0.00	131.5
5.300	3.59	7.76	3.59	7.76	0.00	82.5
5.400	2.97	9.98	2.97	9.98	0.00	68.4
5.500	2.77	13.52	2.77	13.52	0.00	63.8
5.600	2.98	9.96	2.98	9.96	0.00	68.4
5.700	3.59	7.74	3.59	7.74	0.00	82.7
5.800	5.73	6.18	5.73	6.18	0.00	131.7
5.900	20.75	5.00	20.75	5.00	0.00	114.9
6.000	19.31	3.55	19.31	3.55	0.00	81.7
6.000	19.31	3.55	19.31	3.55	0.00	81.7
6.100	21.07	5.01	21.07	5.01	0.00	115.2
6.200	5.72	6.20	5.72	6.20	0.00	131.6
6.300	3.59	7.77	3.59	7.77	0.00	82.4
6.400	2.96	10.00	2.96	10.00	0.00	68.2
6.500	2.76	13.37	2.76	13.37	0.00	63.5
6.600	2.95	9.87	2.95	9.87	0.00	67.9
6.700	3.56	7.68	3.56	7.68	0.00	81.9
6.800	5.65	6.15	5.65	6.15	0.00	130.0
6.900	17.02	4.97	17.02	4.97	0.00	114.4
7.000	15.83	3.57	15.83	3.57	0.00	82.2

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 3F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	15.83	3.57	15.83	3.57	0.00	82.2
7.100	21.00	5.05	21.00	5.05	0.00	116.3
7.200	5.72	6.21	5.72	6.21	0.00	131.6
7.300	3.58	7.71	3.58	7.71	0.00	82.4
7.400	2.97	9.82	2.97	9.82	0.00	68.3
7.500	2.77	10.92	2.77	10.92	0.00	63.6
7.600	2.95	8.01	2.95	8.01	0.00	68.0
7.700	3.55	6.20	3.55	6.20	0.00	81.5
7.800	5.51	4.93	5.51	4.93	0.00	113.3
7.900	21.45	3.96	21.45	3.96	0.00	91.0
8.000	21.74	3.05	21.74	3.05	0.00	70.1
8.000	21.74	3.05	21.74	3.05	0.00	70.1
8.100	22.37	5.14	22.37	5.14	0.00	118.2
8.200	5.81	6.22	5.81	6.22	0.00	133.7
8.300	3.28	7.51	3.28	7.51	0.00	75.3
8.400	2.53	9.09	2.53	9.09	0.00	58.2
8.500	2.15	11.16	2.15	11.16	0.00	49.5
8.600	2.08	14.05	2.08	14.05	0.00	47.8
8.700	2.21	18.60	2.21	18.60	0.00	50.9
8.800	2.71	27.34	2.71	27.34	0.00	62.4
8.900	4.64	52.77	4.64	52.77	0.00	106.8
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	13.7	57.76 R	0.00	44.43	0.00
1.200	2.1	23.5	93.18 R	0.00	71.68	0.00
1.300	2.6	29.3	115.66 R	0.00	88.97	0.00
1.400	2.8	31.2	126.02 R	0.00	96.94	0.00
1.500	2.6	29.1	122.96 L	0.00	94.59	0.00
1.600	2.0	22.8	107.42 L	0.00	82.63	0.00
1.700	1.1	12.6	82.23 L	0.00	63.25	0.00
1.800	-0.2	-1.5	-48.01 R	0.00	-36.93	0.00
1.900	-1.8	-19.6	-54.01 R	0.00	-41.55	0.00
2.000	-3.8	-41.7	-91.82 R	0.00	-70.63	0.00
2.000	-3.8	-41.7	-91.82 R	0.00	-70.63	0.00
2.100	-2.1	-22.7	-68.98 L	0.00	-53.06	0.00
2.200	-0.7	-7.6	-58.96 L	0.00	-45.36	0.00
2.300	0.3	3.5	79.23 R	0.00	60.95	0.00
2.400	0.9	10.7	96.79 R	0.00	74.46	0.00
2.500	1.2	13.9	99.25 R	0.00	76.34	0.00
2.600	1.1	12.9	95.46 L	0.00	73.43	0.00
2.700	0.7	8.0	76.83 L	0.00	59.10	0.00
2.800	-0.1	-0.9	-48.24 R	0.00	-37.11	0.00
2.900	-1.3	-13.7	-56.28 R	0.00	-43.29	0.00
3.000	-2.8	-30.5	-80.57 R	0.00	-61.98	0.00
3.000	-2.8	-30.5	-80.57 R	0.00	-61.98	0.00
3.100	-1.2	-12.9	-57.36 L	0.00	-44.12	0.00
3.200	0.0	0.7	-49.03 L	0.00	-37.71	0.00
3.300	0.9	10.4	76.61 R	0.00	58.93	0.00
3.400	1.4	16.1	94.70 R	0.00	72.84	0.00
3.500	1.6	18.0	97.83 R	0.00	75.25	0.00
3.600	1.4	15.5	94.60 L	0.00	72.77	0.00
3.700	0.8	9.2	76.44 L	0.00	58.80	0.00
3.800	-0.1	-1.1	-48.26 R	0.00	-37.12	0.00
3.900	-1.4	-15.4	-56.45 R	0.00	-43.42	0.00
4.000	-3.0	-33.5	-79.78 R	0.00	-61.37	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-33.5	-79.78 R 0.00	-61.37 0.00
4.100	-1.4	-15.6	-56.52 L 0.00	-43.48 0.00
4.200	-0.2	-1.5	-48.32 L 0.00	-37.17 0.00
4.300	0.7	8.6	76.43 R 0.00	58.79 0.00
4.400	1.3	14.7	94.55 R 0.00	72.73 0.00
4.500	1.5	16.9	97.73 R 0.00	75.17 0.00
4.600	1.3	14.9	94.54 L 0.00	72.72 0.00
4.700	0.8	9.0	76.41 L 0.00	58.78 0.00
4.800	-0.1	-0.9	-48.26 R 0.00	-37.13 0.00
4.900	-1.3	-14.8	-56.46 R 0.00	-43.43 0.00
5.000	-2.9	-32.5	-79.72 R 0.00	-61.33 0.00
5.000	-2.9	-32.5	-79.72 R 0.00	-61.33 0.00
5.100	-1.3	-14.8	-56.46 L 0.00	-43.43 0.00
5.200	-0.1	-0.9	-48.26 L 0.00	-37.13 0.00
5.300	0.8	9.0	76.42 R 0.00	58.78 0.00
5.400	1.3	14.9	94.54 R 0.00	72.72 0.00
5.500	1.5	16.9	97.73 L 0.00	75.17 0.00
5.600	1.3	14.7	94.55 L 0.00	72.73 0.00
5.700	0.7	8.6	76.43 L 0.00	58.79 0.00
5.800	-0.2	-1.5	-48.32 R 0.00	-37.17 0.00
5.900	-1.4	-15.6	-56.52 R 0.00	-43.48 0.00
6.000	-3.0	-33.5	-79.78 L 0.00	-61.37 0.00
6.000	-3.0	-33.5	-79.78 L 0.00	-61.37 0.00
6.100	-1.4	-15.4	-56.45 L 0.00	-43.42 0.00
6.200	-0.1	-1.1	-48.26 L 0.00	-37.12 0.00
6.300	0.8	9.2	76.44 R 0.00	58.80 0.00
6.400	1.4	15.5	94.60 R 0.00	72.77 0.00
6.500	1.6	18.0	97.83 L 0.00	75.25 0.00
6.600	1.4	16.1	94.70 L 0.00	72.84 0.00
6.700	0.9	10.4	76.61 L 0.00	58.93 0.00
6.800	0.0	0.7	-49.03 R 0.00	-37.71 0.00
6.900	-1.2	-12.9	-57.36 R 0.00	-44.12 0.00
7.000	-2.8	-30.5	-80.57 L 0.00	-61.98 0.00



## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-30.5	-80.57 L 0.00	-61.98 0.00
7.100	-1.3	-13.7	-56.28 L 0.00	-43.29 0.00
7.200	-0.1	-0.9	-48.24 L 0.00	-37.11 0.00
7.300	0.7	8.0	76.83 R 0.00	59.10 0.00
7.400	1.1	12.9	95.46 R 0.00	73.43 0.00
7.500	1.2	13.9	99.25 L 0.00	76.34 0.00
7.600	0.9	10.7	96.79 L 0.00	74.46 0.00
7.700	0.3	3.5	79.23 L 0.00	60.95 0.00
7.800	-0.7	-7.6	-58.96 R 0.00	-45.36 0.00
7.900	-2.1	-22.7	-68.98 R 0.00	-53.06 0.00
8.000	-3.8	-41.7	-91.60 L 0.00	-70.46 0.00
8.000	-3.8	-41.7	-91.60 L 0.00	-70.46 0.00
8.100	-1.8	-19.6	-54.01 L 0.00	-41.55 0.00
8.200	-0.2	-1.5	-48.01 L 0.00	-36.93 0.00
8.300	1.1	12.6	82.23 R 0.00	63.25 0.00
8.400	2.0	22.8	107.42 R 0.00	82.63 0.00
8.500	2.6	29.1	122.96 R 0.00	94.59 0.00
8.600	2.8	31.2	126.02 L 0.00	96.94 0.00
8.700	2.6	29.3	115.66 L 0.00	88.97 0.00
8.800	2.1	23.5	93.18 L 0.00	71.68 0.00
8.900	1.2	13.7	57.76 L 0.00	44.43 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6	1.100	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.
2	1.200	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
5	1.300	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
6	1.400	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
3	1.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
5	1.600	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
4	1.700	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
9	1.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
2	1.900	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
9	2.100	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
3	2.200	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
4	2.300	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
2	2.400	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
7	2.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
6	2.600	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
3	2.700	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
6	2.900	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.

4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
5	3.100	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	3.200	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
9	3.300	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
2	3.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
2	3.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
5	3.600	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
6	3.700	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
4	3.800	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
9	3.900	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
1	4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

4F1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
4.100	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.
4.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4.300	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
4.400	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
4.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
4.600	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
4.700	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
4.900	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.100	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
5.300	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
5.400	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
5.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
5.600	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
5.700	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
5.900	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.

1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
9	6.100	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
4	6.200	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
5	6.400	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
2	6.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
2	6.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
9	6.700	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
4	6.800	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
5	6.900	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

4F1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
6	7.100	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.
6	7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	7.300	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	7.400	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
7	7.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
2	7.600	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
4	7.700	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
3	7.800	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
9	7.900	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.100	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
9	8.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4	8.300	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
5	8.400	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
3	8.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
6	8.600	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
5	8.700	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
2	8.800	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
6	8.900	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.95	47.25	4.39	52.58	0.00	118.6
1.200	2.95	24.51	2.61	27.18	0.00	70.4
1.300	2.32	16.69	2.05	18.47	0.00	55.3
1.400	2.12	12.61	1.86	13.94	0.00	50.3
1.500	2.19	10.01	1.93	11.08	0.00	52.0
1.600	2.57	8.15	2.27	9.04	0.00	61.3
1.700	3.49	6.72	3.10	7.48	0.00	83.7
1.800	6.85	5.56	6.12	6.23	0.00	150.1
1.900	22.52	4.58	20.29	5.17	0.00	123.6
2.000	21.52	2.43	19.53	2.78	0.00	65.6
2.000	21.52	2.43	19.53	2.78	0.00	65.6
2.100	40.96	3.54	36.93	4.00	0.00	95.5
2.200	6.39	4.41	5.72	4.96	0.00	119.2
2.300	3.75	5.57	3.34	6.22	0.00	90.3
2.400	2.99	7.20	2.66	8.02	0.00	71.7
2.500	2.88	9.81	2.56	10.92	0.00	69.0
2.600	3.00	8.79	2.67	9.78	0.00	72.0
2.700	3.80	6.90	3.38	7.69	0.00	91.4
2.800	6.72	5.55	6.01	6.21	0.00	149.8
2.900	21.18	4.51	19.04	5.07	0.00	121.7
3.000	15.77	2.92	14.26	3.32	0.00	78.9
3.000	15.77	2.92	14.26	3.32	0.00	78.9
3.100	17.18	4.44	15.43	5.00	0.00	119.8
3.200	6.64	5.49	5.93	6.15	0.00	148.4
3.300	3.78	6.88	3.36	7.66	0.00	90.7
3.400	2.99	8.84	2.65	9.83	0.00	71.6
3.500	2.87	11.99	2.55	13.32	0.00	68.8
3.600	3.00	8.95	2.66	9.96	0.00	71.9
3.700	3.80	6.95	3.38	7.75	0.00	91.4
3.800	6.72	5.54	6.01	6.20	0.00	149.6
3.900	21.24	4.46	19.10	5.03	0.00	120.5
4.000	19.16	2.91	17.34	3.31	0.00	78.5



## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	19.16	2.91	17.34	3.31	0.00	78.5
4.100	20.91	4.45	18.81	5.02	0.00	120.2
4.200	6.73	5.53	6.02	6.19	0.00	149.2
4.300	3.81	6.93	3.39	7.73	0.00	91.6
4.400	3.01	8.92	2.67	9.93	0.00	72.2
4.500	2.89	12.12	2.56	13.47	0.00	69.1
4.600	3.01	8.94	2.67	9.94	0.00	72.1
4.700	3.81	6.95	3.39	7.75	0.00	91.5
4.800	6.72	5.55	6.00	6.21	0.00	149.7
4.900	21.17	4.47	19.03	5.04	0.00	120.8
5.000	19.38	2.92	17.53	3.33	0.00	79.0
5.000	19.38	2.92	17.53	3.33	0.00	79.0
5.100	21.17	4.47	19.03	5.04	0.00	120.8
5.200	6.72	5.55	6.00	6.21	0.00	149.7
5.300	3.81	6.95	3.39	7.75	0.00	91.5
5.400	3.01	8.94	2.67	9.94	0.00	72.1
5.500	2.89	12.12	2.56	13.47	0.00	69.1
5.600	3.01	8.92	2.67	9.93	0.00	72.2
5.700	3.81	6.93	3.39	7.73	0.00	91.6
5.800	6.73	5.53	6.02	6.19	0.00	149.2
5.900	20.91	4.45	18.81	5.02	0.00	120.2
6.000	19.16	2.91	17.34	3.31	0.00	78.5
6.000	19.16	2.91	17.34	3.31	0.00	78.5
6.100	21.24	4.46	19.10	5.03	0.00	120.5
6.200	6.72	5.54	6.01	6.20	0.00	149.6
6.300	3.80	6.95	3.38	7.75	0.00	91.4
6.400	3.00	8.95	2.66	9.96	0.00	71.9
6.500	2.87	11.99	2.55	13.32	0.00	68.8
6.600	2.99	8.84	2.65	9.83	0.00	71.6
6.700	3.78	6.88	3.36	7.66	0.00	90.7
6.800	6.64	5.49	5.93	6.15	0.00	148.4
6.900	17.18	4.44	15.43	5.00	0.00	119.8
7.000	15.77	2.92	14.26	3.32	0.00	78.9

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 4F1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
7.000	15.77	2.92	14.26	3.32	0.00	78.9
7.100	21.18	4.51	19.04	5.07	0.00	121.7
7.200	6.72	5.55	6.01	6.21	0.00	149.8
7.300	3.80	6.90	3.38	7.69	0.00	91.4
7.400	3.00	8.79	2.67	9.78	0.00	72.0
7.500	2.88	9.81	2.56	10.92	0.00	69.0
7.600	2.99	7.20	2.66	8.02	0.00	71.7
7.700	3.75	5.57	3.34	6.22	0.00	90.3
7.800	6.39	4.41	5.72	4.96	0.00	119.2
7.900	40.96	3.54	36.93	4.00	0.00	95.5
8.000	21.52	2.44	19.53	2.79	0.00	65.8
8.000	21.52	2.44	19.53	2.79	0.00	65.8
8.100	22.52	4.58	20.29	5.17	0.00	123.6
8.200	6.85	5.56	6.12	6.23	0.00	150.1
8.300	3.49	6.72	3.10	7.48	0.00	83.7
8.400	2.57	8.15	2.27	9.04	0.00	61.3
8.500	2.19	10.01	1.93	11.08	0.00	52.0
8.600	2.12	12.60	1.86	13.94	0.00	50.3
8.700	2.32	16.69	2.05	18.47	0.00	55.3
8.800	2.95	24.51	2.61	27.18	0.00	70.4
8.900	4.95	47.25	4.39	52.58	0.00	118.6
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	6.6	29.10	0.00	22.39	0.00
1.100	0.4	4.9	24.15	0.00	18.58	0.00
1.200	0.3	3.3	19.48	0.00	14.99	0.00
1.300	0.1	1.6	15.37	0.00	11.82	0.00
1.400	0.0	-0.1	11.77	0.00	9.05	0.00
1.500	-0.2	-1.7	-14.12	0.00	-10.87	0.00
1.600	-0.3	-3.5	-18.13	0.00	-13.95	0.00
1.700	-0.5	-5.1	-22.18	0.00	-17.06	0.00
1.800	-0.6	-6.7	-25.80	0.00	-19.85	0.00
1.900	-0.8	-8.4	-30.04	0.00	-23.11	0.00
2.000	-0.9	-10.0	-33.90	0.00	-26.07	0.00
2.000	0.8	-10.0	31.38	0.00	24.14	0.00
2.100	0.6	7.1	27.26	0.00	20.97	0.00
2.200	0.5	5.5	23.34	0.00	17.95	0.00
2.300	0.3	3.8	19.08	0.00	14.68	0.00
2.400	0.2	2.2	14.61	0.00	11.24	0.00
2.500	0.0	0.5	-10.52	0.00	-8.10	0.00
2.600	-0.1	-1.2	-15.05	0.00	-11.58	0.00
2.700	-0.3	-2.9	-19.46	0.00	-14.97	0.00
2.800	-0.4	-4.5	-23.62	0.00	-18.17	0.00
2.900	-0.6	-6.2	-27.60	0.00	-21.23	0.00
3.000	-0.7	-7.8	-31.88	0.00	-24.52	0.00
3.000	0.7	8.2	31.71	0.00	24.39	0.00
3.100	0.6	6.5	27.40	0.00	21.08	0.00
3.200	0.4	4.9	23.44	0.00	18.03	0.00
3.300	0.3	3.2	19.24	0.00	14.80	0.00
3.400	0.1	1.6	14.80	0.00	11.39	0.00
3.500	0.0	-0.1	-10.30	0.00	-7.92	0.00
3.600	-0.2	-1.8	-14.83	0.00	-11.41	0.00
3.700	-0.3	-3.5	-19.27	0.00	-14.82	0.00
3.800	-0.5	-5.1	-23.46	0.00	-18.05	0.00
3.900	-0.6	-6.8	-27.43	0.00	-21.10	0.00
4.000	-0.8	-8.4	-31.73	0.00	-24.41	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-8.4	31.72	0.00	24.40	0.00
4.100	0.6	6.7	27.41	0.00	21.09	0.00
4.200	0.5	5.0	23.45	0.00	18.04	0.00
4.300	0.3	3.4	19.25	0.00	14.81	0.00
4.400	0.2	1.8	14.81	0.00	11.40	0.00
4.500	0.0	0.1	10.28	0.00	7.91	0.00
4.600	-0.1	-1.7	-14.82	0.00	-11.40	0.00
4.700	-0.3	-3.3	-19.25	0.00	-14.81	0.00
4.800	-0.4	-5.0	-23.45	0.00	-18.04	0.00
4.900	-0.6	-6.6	-27.42	0.00	-21.09	0.00
5.000	-0.7	-8.2	-31.72	0.00	-24.40	0.00
5.000	0.7	8.2	31.72	0.00	24.40	0.00
5.100	0.6	6.6	27.42	0.00	21.09	0.00
5.200	0.4	5.0	23.45	0.00	18.04	0.00
5.300	0.3	3.3	19.25	0.00	14.81	0.00
5.400	0.1	1.7	14.82	0.00	11.40	0.00
5.500	0.0	0.1	10.28	0.00	7.91	0.00
5.600	-0.2	-1.8	-14.81	0.00	-11.40	0.00
5.700	-0.3	-3.4	-19.25	0.00	-14.81	0.00
5.800	-0.5	-5.0	-23.45	0.00	-18.04	0.00
5.900	-0.6	-6.7	-27.41	0.00	-21.09	0.00
6.000	-0.7	-8.3	-31.72	0.00	-24.40	0.00
6.000	0.8	8.4	31.73	0.00	24.41	0.00
6.100	0.6	6.8	27.43	0.00	21.10	0.00
6.200	0.5	5.1	23.46	0.00	18.05	0.00
6.300	0.3	3.5	19.27	0.00	14.82	0.00
6.400	0.2	1.8	14.83	0.00	11.41	0.00
6.500	0.0	0.2	10.30	0.00	7.92	0.00
6.600	-0.1	-1.6	-14.80	0.00	-11.39	0.00
6.700	-0.3	-3.2	-19.24	0.00	-14.80	0.00
6.800	-0.4	-4.9	-23.44	0.00	-18.03	0.00
6.900	-0.6	-6.5	-27.40	0.00	-21.08	0.00
7.000	-0.7	-8.2	-31.71	0.00	-24.39	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-8.2	31.88	0.00	24.52	0.00
7.100	0.6	6.2	27.60	0.00	21.23	0.00
7.200	0.4	4.5	23.62	0.00	18.17	0.00
7.300	0.3	2.9	19.46	0.00	14.97	0.00
7.400	0.1	1.2	15.05	0.00	11.58	0.00
7.500	0.0	-0.5	10.52	0.00	8.10	0.00
7.600	-0.2	-2.2	-14.61	0.00	-11.24	0.00
7.700	-0.3	-3.8	-19.08	0.00	-14.68	0.00
7.800	-0.5	-5.5	-23.34	0.00	-17.95	0.00
7.900	-0.6	-7.1	-27.26	0.00	-20.97	0.00
8.000	-0.8	-8.8	-31.53	0.00	-24.26	0.00
8.000	0.9	10.0	33.90	0.00	26.07	0.00
8.100	0.8	8.4	30.04	0.00	23.11	0.00
8.200	0.6	6.7	25.80	0.00	19.85	0.00
8.300	0.5	5.1	22.18	0.00	17.06	0.00
8.400	0.3	3.5	18.13	0.00	13.95	0.00
8.500	0.2	1.8	14.12	0.00	10.87	0.00
8.600	0.0	0.1	-11.77	0.00	-9.05	0.00
8.700	-0.1	-1.6	-15.37	0.00	-11.82	0.00
8.800	-0.3	-3.3	-19.48	0.00	-14.99	0.00
8.900	-0.4	-4.9	-24.15	0.00	-18.58	0.00
9.000	-0.6	-6.6	-29.10	0.00	-22.39	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-123.5	109.2
1.100	151.3	-121.7	111.0
1.200	151.3	-119.9	112.8
1.300	151.3	-118.1	114.6
1.400	151.3	-116.3	116.4
1.500	151.3	-114.6	118.2
1.600	151.3	-112.6	120.1
1.700	151.3	-110.8	121.9
1.800	151.3	-109.0	123.7
1.900	151.3	-107.2	125.5
2.000	151.3	-105.4	127.3
2.000	151.3	-105.4	106.8
2.100	151.3	-124.1	108.6
2.200	151.3	-122.3	110.4
2.300	151.3	-120.5	112.2
2.400	151.3	-118.7	114.0
2.500	151.3	-116.9	115.8
2.600	151.3	-115.0	117.7
2.700	151.3	-113.2	119.5
2.800	151.3	-111.4	121.3
2.900	151.3	-109.6	123.1
3.000	151.3	-107.8	117.1
3.000	151.3	-107.8	107.5
3.100	151.3	-123.5	109.3
3.200	151.3	-121.7	111.1
3.300	151.3	-119.9	112.9
3.400	151.3	-118.1	114.7
3.500	151.3	-116.3	116.4
3.600	151.3	-114.4	118.4
3.700	151.3	-112.6	120.2
3.800	151.3	-110.8	122.0
3.900	151.3	-109.0	123.8
4.000	151.3	-107.2	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-107.2	107.3
4.100	151.3	-123.7	109.1
4.200	151.3	-121.9	110.9
4.300	151.3	-120.1	112.7
4.400	151.3	-118.3	114.5
4.500	151.3	-116.5	116.3
4.600	151.3	-114.6	118.2
4.700	151.3	-112.8	120.0
4.800	151.3	-111.0	121.8
4.900	151.3	-109.2	123.6
5.000	151.3	-107.4	117.1
5.000	151.3	-107.4	107.4
5.100	151.3	-123.6	109.2
5.200	151.3	-121.8	111.0
5.300	151.3	-120.0	112.8
5.400	151.3	-118.2	114.6
5.500	151.3	-116.4	116.4
5.600	151.3	-114.5	118.3
5.700	151.3	-112.7	120.1
5.800	151.3	-110.9	121.9
5.900	151.3	-109.1	123.7
6.000	151.3	-107.3	117.1
6.000	151.3	-107.3	107.2
6.100	151.3	-123.8	109.0
6.200	151.3	-122.0	110.8
6.300	151.3	-120.2	112.6
6.400	151.3	-118.4	114.4
6.500	151.3	-116.6	116.2
6.600	151.3	-114.7	118.1
6.700	151.3	-112.9	119.9
6.800	151.3	-111.1	121.7
6.900	151.3	-109.3	123.5
7.000	151.3	-107.5	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-107.5	107.8
7.100	151.3	-123.1	109.6
7.200	151.3	-121.3	111.4
7.300	151.3	-119.5	113.2
7.400	151.3	-117.7	115.0
7.500	151.3	-115.9	116.8
7.600	151.3	-114.0	118.7
7.700	151.3	-112.2	120.5
7.800	151.3	-110.4	122.3
7.900	151.3	-108.6	124.1
8.000	151.3	-106.8	117.2
8.000	151.3	-106.8	105.4
8.100	151.3	-125.5	107.2
8.200	151.3	-123.7	109.0
8.300	151.3	-121.9	110.8
8.400	151.3	-120.1	112.6
8.500	151.3	-118.3	114.4
8.600	151.3	-116.4	116.3
8.700	151.3	-114.6	118.1
8.800	151.3	-112.8	119.9
8.900	151.3	-111.0	121.7
9.000	151.3	-109.2	117.0



## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	49.54	3.75	0.00	101.3
1.100	48.82	4.60	0.00	124.1
1.200	35.37	5.79	0.00	156.4
1.300	18.88	7.46	0.00	201.4
1.400	11.63	9.89	0.00	267.0
1.500	8.11	15.16	0.00	219.0
1.600	6.21	24.97	0.00	167.7
1.700	5.00	52.02	0.00	134.9
1.800	4.22	185.21	0.00	114.1
1.900	3.57	187.89	0.00	96.4
2.000	3.11	190.58	0.00	84.0
2.000	3.11	3.40	0.00	84.0
2.100	37.16	3.98	0.00	107.6
2.200	36.62	4.73	0.00	127.7
2.300	36.09	5.88	0.00	158.8
2.400	19.05	7.80	0.00	210.6
2.500	11.11	11.49	0.00	300.0
2.600	7.64	19.18	0.00	206.3
2.700	5.82	28.73	0.00	157.1
2.800	4.72	29.16	0.00	127.4
2.900	3.97	29.40	0.00	107.2
3.000	3.38	27.95	0.00	91.3
3.000	3.38	3.39	0.00	91.3
3.100	36.31	3.99	0.00	107.7
3.200	35.78	4.74	0.00	127.9
3.300	35.25	5.87	0.00	158.4
3.400	18.93	7.75	0.00	209.1
3.500	11.30	11.34	0.00	305.0
3.600	7.71	19.00	0.00	208.2
3.700	5.84	34.73	0.00	157.8
3.800	4.72	35.25	0.00	127.5
3.900	3.97	35.54	0.00	107.3
4.000	3.38	33.63	0.00	91.2

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.38	3.38	0.00	91.2
4.100	36.31	3.98	0.00	107.4
4.200	35.78	4.73	0.00	127.6
4.300	35.26	5.85	0.00	158.0
4.400	18.96	7.73	0.00	208.6
4.500	11.33	11.31	0.00	305.4
4.600	7.73	18.94	0.00	208.8
4.700	5.86	35.19	0.00	158.1
4.800	4.73	35.72	0.00	127.7
4.900	3.98	36.01	0.00	107.5
5.000	3.38	34.13	0.00	91.4
5.000	3.38	3.38	0.00	91.4
5.100	36.24	3.98	0.00	107.5
5.200	35.72	4.73	0.00	127.7
5.300	35.19	5.86	0.00	158.1
5.400	18.94	7.73	0.00	208.8
5.500	11.32	11.32	0.00	305.6
5.600	7.73	18.96	0.00	208.6
5.700	5.85	35.26	0.00	158.0
5.800	4.73	35.78	0.00	127.6
5.900	3.98	36.08	0.00	107.4
6.000	3.38	34.17	0.00	91.3
6.000	3.38	3.38	0.00	91.2
6.100	35.77	3.97	0.00	107.3
6.200	35.25	4.72	0.00	127.5
6.300	34.73	5.84	0.00	157.8
6.400	19.00	7.71	0.00	208.2
6.500	11.36	11.28	0.00	304.6
6.600	7.75	18.93	0.00	209.1
6.700	5.87	35.25	0.00	158.4
6.800	4.74	35.78	0.00	127.9
6.900	3.99	36.07	0.00	107.7
7.000	3.39	34.21	0.00	91.5

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 4F1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.39	3.38	0.00	91.3
7.100	29.59	3.97	0.00	107.2
7.200	29.16	4.72	0.00	127.4
7.300	28.73	5.82	0.00	157.1
7.400	19.18	7.64	0.00	206.3
7.500	11.50	11.10	0.00	299.7
7.600	7.80	19.05	0.00	210.6
7.700	5.88	36.09	0.00	158.8
7.800	4.73	36.62	0.00	127.7
7.900	3.98	36.92	0.00	107.6
8.000	3.39	34.85	0.00	91.5
8.000	3.39	3.11	0.00	84.0
8.100	187.89	3.57	0.00	96.4
8.200	185.21	4.22	0.00	114.1
8.300	52.02	5.00	0.00	134.9
8.400	24.97	6.21	0.00	167.7
8.500	15.18	8.10	0.00	218.7
8.600	9.89	11.63	0.00	267.0
8.700	7.46	18.88	0.00	201.4
8.800	5.79	35.37	0.00	156.4
8.900	4.60	48.82	0.00	124.1
9.000	3.75	999.00	0.00	101.3



3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.100 65.3	279.4	279.4	-279.4	-279.4	293.5	293.5	-265.3	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 90.7	279.4	279.4	-279.4	-279.4	268.1	268.1	-290.7	-2
3.400 96.9	279.4	279.4	-279.4	-279.4	261.9	261.9	-296.9	-2
3.500 98.9	279.4	279.4	-279.4	-279.4	259.9	259.9	-298.9	-2
3.600 96.3	279.4	279.4	-279.4	-279.4	262.5	262.5	-296.3	-2
3.700 89.4	279.4	279.4	-279.4	-279.4	269.4	269.4	-289.4	-2
3.800 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
3.900 62.6	279.4	279.4	-279.4	-279.4	296.2	296.2	-262.6	-2
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

4F1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2
4.100 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2
4.200 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
4.300 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
4.400 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
4.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
4.600 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
4.700 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
4.800 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
4.900 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.100 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.200 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
5.300 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
5.400 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
5.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
5.600 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
5.700 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
5.800 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
5.900 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2



## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

4F1

Span g tt.	Moment Capacity				Available Capacity for LL+I				
	Positive Bending		Negative Bending		Positive Bending		Negative Bending		
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo	
46.2	7.000	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
64.4	7.100	279.4	279.4	-279.4	-279.4	294.4	294.4	-264.4	-2
78.4	7.200	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
88.0	7.300	279.4	279.4	-279.4	-279.4	270.8	270.8	-288.0	-2
93.4	7.400	279.4	279.4	-279.4	-279.4	265.4	265.4	-293.4	-2
94.5	7.500	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
91.0	7.600	279.4	279.4	-279.4	-279.4	267.8	267.8	-291.0	-2
83.2	7.700	279.4	279.4	-279.4	-279.4	275.6	275.6	-283.2	-2
71.1	7.800	279.4	279.4	-279.4	-279.4	287.7	287.7	-271.1	-2
54.7	7.900	279.4	279.4	-279.4	-279.4	304.1	304.1	-254.7	-2
34.0	8.000	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
34.0	8.000	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
58.0	8.100	279.4	279.4	-279.4	-279.4	300.8	300.8	-258.0	-2
77.7	8.200	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
93.1	8.300	279.4	279.4	-279.4	-279.4	265.7	265.7	-293.1	-2
04.3	8.400	279.4	279.4	-279.4	-279.4	254.5	254.5	-304.3	-3
11.1	8.500	279.4	279.4	-279.4	-279.4	247.7	247.7	-311.1	-3
13.3	8.600	279.4	279.4	-279.4	-279.4	245.5	245.5	-313.3	-3
11.3	8.700	279.4	279.4	-279.4	-279.4	247.5	247.5	-311.3	-3
05.0	8.800	279.4	279.4	-279.4	-279.4	253.8	253.8	-305.0	-3
94.3	8.900	279.4	279.4	-279.4	-279.4	264.5	264.5	-294.3	-2



9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.58	49.04	4.58	49.04	0.00	123.6
1.200	2.72	25.41	2.72	25.41	0.00	73.6
1.300	2.14	17.29	2.14	17.29	0.00	57.8
1.400	1.95	13.05	1.95	13.05	0.00	52.6
1.500	2.01	10.37	2.01	10.37	0.00	54.4
1.600	2.37	8.45	2.37	8.45	0.00	64.0
1.700	3.23	6.98	3.23	6.98	0.00	87.2
1.800	6.37	5.78	6.37	5.78	0.00	156.2
1.900	21.04	4.78	21.04	4.78	0.00	129.0
2.000	20.20	2.55	20.20	2.55	0.00	68.8
2.000	20.20	2.55	20.20	2.55	0.00	68.8
2.100	38.29	3.69	38.29	3.69	0.00	99.7
2.200	5.95	4.60	5.95	4.60	0.00	124.1
2.300	3.48	5.78	3.48	5.78	0.00	93.9
2.400	2.77	7.47	2.77	7.47	0.00	74.7
2.500	2.66	10.19	2.66	10.19	0.00	71.9
2.600	2.78	9.12	2.78	9.12	0.00	75.1
2.700	3.52	7.16	3.52	7.16	0.00	95.2
2.800	6.25	5.77	6.25	5.77	0.00	155.8
2.900	19.76	4.70	19.76	4.70	0.00	126.8
3.000	14.77	3.06	14.77	3.06	0.00	82.5
3.000	14.77	3.06	14.77	3.06	0.00	82.5
3.100	16.02	4.62	16.02	4.62	0.00	124.9
3.200	6.17	5.71	6.17	5.71	0.00	154.3
3.300	3.50	7.14	3.50	7.14	0.00	94.5
3.400	2.77	9.17	2.77	9.17	0.00	74.7
3.500	2.66	12.43	2.66	12.43	0.00	71.7
3.600	2.78	9.29	2.78	9.29	0.00	74.9
3.700	3.53	7.22	3.53	7.22	0.00	95.2
3.800	6.25	5.76	6.25	5.76	0.00	155.6
3.900	19.82	4.65	19.82	4.65	0.00	125.6
4.000	17.95	3.04	17.95	3.04	0.00	82.2

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	17.95	3.04	17.95	3.04	0.00	82.2
4.100	19.51	4.64	19.51	4.64	0.00	125.3
4.200	6.26	5.75	6.26	5.75	0.00	155.2
4.300	3.53	7.20	3.53	7.20	0.00	95.4
4.400	2.79	9.26	2.79	9.26	0.00	75.2
4.500	2.67	12.57	2.67	12.57	0.00	72.1
4.600	2.78	9.28	2.78	9.28	0.00	75.2
4.700	3.53	7.22	3.53	7.22	0.00	95.3
4.800	6.24	5.77	6.24	5.77	0.00	155.7
4.900	19.75	4.66	19.75	4.66	0.00	125.9
5.000	18.15	3.06	18.15	3.06	0.00	82.6
5.000	18.15	3.06	18.15	3.06	0.00	82.6
5.100	19.75	4.66	19.75	4.66	0.00	125.9
5.200	6.24	5.77	6.24	5.77	0.00	155.7
5.300	3.53	7.22	3.53	7.22	0.00	95.3
5.400	2.78	9.28	2.78	9.28	0.00	75.2
5.500	2.67	12.57	2.67	12.57	0.00	72.1
5.600	2.79	9.26	2.79	9.26	0.00	75.2
5.700	3.53	7.20	3.53	7.20	0.00	95.4
5.800	6.26	5.75	6.26	5.75	0.00	155.2
5.900	19.51	4.64	19.51	4.64	0.00	125.4
6.000	17.95	3.04	17.95	3.04	0.00	82.2
6.000	17.95	3.04	17.95	3.04	0.00	82.2
6.100	19.82	4.65	19.82	4.65	0.00	125.6
6.200	6.25	5.76	6.25	5.76	0.00	155.6
6.300	3.53	7.22	3.53	7.22	0.00	95.2
6.400	2.78	9.29	2.78	9.29	0.00	74.9
6.500	2.66	12.43	2.66	12.43	0.00	71.7
6.600	2.77	9.17	2.77	9.17	0.00	74.7
6.700	3.50	7.14	3.50	7.14	0.00	94.5
6.800	6.17	5.71	6.17	5.71	0.00	154.3
6.900	16.02	4.62	16.02	4.62	0.00	124.9
7.000	14.77	3.06	14.77	3.06	0.00	82.5

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 4F1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	14.77	3.06	14.77	3.06	0.00	82.5
7.100	19.76	4.70	19.76	4.70	0.00	126.8
7.200	6.25	5.77	6.25	5.77	0.00	155.8
7.300	3.52	7.16	3.52	7.16	0.00	95.2
7.400	2.78	9.12	2.78	9.12	0.00	75.1
7.500	2.66	10.19	2.66	10.19	0.00	71.9
7.600	2.77	7.47	2.77	7.47	0.00	74.7
7.700	3.48	5.78	3.48	5.78	0.00	93.9
7.800	5.95	4.60	5.95	4.60	0.00	124.1
7.900	38.28	3.69	38.28	3.69	0.00	99.7
8.000	20.20	2.55	20.20	2.55	0.00	69.0
8.000	20.20	2.55	20.20	2.55	0.00	69.0
8.100	21.04	4.78	21.04	4.78	0.00	129.0
8.200	6.37	5.78	6.37	5.78	0.00	156.2
8.300	3.23	6.98	3.23	6.98	0.00	87.2
8.400	2.37	8.45	2.37	8.45	0.00	64.0
8.500	2.01	10.37	2.01	10.37	0.00	54.4
8.600	1.95	13.05	1.95	13.05	0.00	52.6
8.700	2.14	17.29	2.14	17.29	0.00	57.8
8.800	2.72	25.41	2.72	25.41	0.00	73.6
8.900	4.58	49.04	4.58	49.04	0.00	123.6
9.000	999.00	999.00	999.00	999.00	0.00	999.0

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	w/impact Lane	Live Load w/o impact Truck	w/o impact Lane
1.000	0.0	0.0	0.00 R	0.00	0.00	0.00
1.100	1.2	13.7	55.29 R	0.00	42.53	0.00
1.200	2.1	23.5	90.77 R	0.00	69.82	0.00
1.300	2.6	29.3	108.35 R	0.00	83.35	0.00
1.400	2.8	31.2	113.03 L	0.00	86.95	0.00
1.500	2.6	29.1	109.86 L	0.00	84.51	0.00
1.600	2.0	22.8	100.66 L	0.00	77.43	0.00
1.700	1.1	12.6	83.63 R	0.00	64.33	0.00
1.800	-0.2	-1.5	58.23 R	0.00	44.79	0.00
1.900	-1.8	-19.6	-48.78 L	0.00	-37.53	0.00
2.000	-3.8	-41.7	-81.29 R	0.00	-62.53	0.00
2.000	-3.8	-41.7	-81.29 R	0.00	-62.53	0.00
2.100	-2.1	-22.7	-59.16 L	0.00	-45.50	0.00
2.200	-0.7	-7.6	51.89 R	0.00	39.92	0.00
2.300	0.3	3.5	75.97 R	0.00	58.44	0.00
2.400	0.9	10.7	88.69 R	0.00	68.22	0.00
2.500	1.2	13.9	93.55 R	0.00	71.96	0.00
2.600	1.1	12.9	90.03 L	0.00	69.26	0.00
2.700	0.7	8.0	78.95 R	0.00	60.73	0.00
2.800	-0.1	-0.9	58.70 R	0.00	45.16	0.00
2.900	-1.3	-13.7	-45.81 R	0.00	-35.24	0.00
3.000	-2.8	-30.5	-66.42 L	0.00	-51.09	0.00
3.000	-2.8	-30.5	-66.42 L	0.00	-51.09	0.00
3.100	-1.2	-12.9	-46.95 L	0.00	-36.12	0.00
3.200	0.0	0.7	60.94 L	0.00	46.87	0.00
3.300	0.9	10.4	80.03 L	0.00	61.56	0.00
3.400	1.4	16.1	89.93 R	0.00	69.18	0.00
3.500	1.6	18.0	93.08 L	0.00	71.60	0.00
3.600	1.4	15.5	89.27 L	0.00	68.67	0.00
3.700	0.8	9.2	78.61 R	0.00	60.47	0.00
3.800	-0.1	-1.1	58.74 R	0.00	45.18	0.00
3.900	-1.4	-15.4	-46.15 R	0.00	-35.50	0.00
4.000	-3.0	-33.5	-66.52 L	0.00	-51.17	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
4.000	-3.0	-33.5	-66.52 L	0.00
4.100	-1.4	-15.6	-46.23 L	0.00
4.200	-0.2	-1.5	58.90 L	0.00
4.300	0.7	8.6	78.69 L	0.00
4.400	1.3	14.7	89.26 R	0.00
4.500	1.5	16.9	92.36 L	0.00
4.600	1.3	14.9	89.22 L	0.00
4.700	0.8	9.0	78.59 R	0.00
4.800	-0.1	-0.9	58.75 R	0.00
4.900	-1.3	-14.8	-46.17 R	0.00
5.000	-2.9	-32.5	-66.52 R	0.00
5.000	-2.9	-32.5	-66.52 R	0.00
5.100	-1.3	-14.8	-46.17 L	0.00
5.200	-0.1	-0.9	58.75 L	0.00
5.300	0.8	9.0	78.59 L	0.00
5.400	1.3	14.9	89.22 R	0.00
5.500	1.5	16.9	92.36 R	0.00
5.600	1.3	14.7	89.26 L	0.00
5.700	0.7	8.6	78.69 R	0.00
5.800	-0.2	-1.5	58.90 R	0.00
5.900	-1.4	-15.6	-46.23 R	0.00
6.000	-3.0	-33.5	-66.50 R	0.00
6.000	-3.0	-33.5	-66.50 R	0.00
6.100	-1.4	-15.4	-46.15 L	0.00
6.200	-0.1	-1.1	58.74 L	0.00
6.300	0.8	9.2	78.61 L	0.00
6.400	1.4	15.5	89.27 R	0.00
6.500	1.6	18.0	93.08 R	0.00
6.600	1.4	16.1	89.93 L	0.00
6.700	0.9	10.4	80.03 R	0.00
6.800	0.0	0.7	60.94 R	0.00
6.900	-1.2	-12.9	-46.95 R	0.00
7.000	-2.8	-30.5	-66.40 R	0.00
6.000	-3.0	-33.5	-66.50 R	0.00
6.100	-1.4	-15.4	-46.15 L	0.00
6.200	-0.1	-1.1	58.74 L	0.00
6.300	0.8	9.2	78.61 L	0.00
6.400	1.4	15.5	89.27 R	0.00
6.500	1.6	18.0	93.08 R	0.00
6.600	1.4	16.1	89.93 L	0.00
6.700	0.9	10.4	80.03 R	0.00
6.800	0.0	0.7	60.94 R	0.00
6.900	-1.2	-12.9	-46.95 R	0.00
7.000	-2.8	-30.5	-66.40 R	0.00

## MOMENT REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck Lane	Live Load w/o impact Truck Lane
7.000	-2.8	-30.5	-66.40 R 0.00	-51.07 0.00
7.100	-1.3	-13.7	-45.81 L 0.00	-35.24 0.00
7.200	-0.1	-0.9	58.71 L 0.00	45.16 0.00
7.300	0.7	8.0	78.95 L 0.00	60.73 0.00
7.400	1.1	12.9	90.04 R 0.00	69.26 0.00
7.500	1.2	13.9	93.55 L 0.00	71.96 0.00
7.600	0.9	10.7	88.69 L 0.00	68.22 0.00
7.700	0.3	3.5	75.97 L 0.00	58.44 0.00
7.800	-0.7	-7.6	51.89 L 0.00	39.92 0.00
7.900	-2.1	-22.7	-59.16 R 0.00	-45.50 0.00
8.000	-3.8	-41.7	-81.29 L 0.00	-62.53 0.00
8.000	-3.8	-41.7	-81.29 L 0.00	-62.53 0.00
8.100	-1.8	-19.6	-48.78 R 0.00	-37.53 0.00
8.200	-0.2	-1.5	58.23 L 0.00	44.79 0.00
8.300	1.1	12.6	83.63 L 0.00	64.33 0.00
8.400	2.0	22.8	100.66 R 0.00	77.43 0.00
8.500	2.6	29.1	109.86 R 0.00	84.51 0.00
8.600	2.8	31.2	113.03 R 0.00	86.95 0.00
8.700	2.6	29.3	108.35 L 0.00	83.35 0.00
8.800	2.1	23.5	90.77 L 0.00	69.82 0.00
8.900	1.2	13.7	55.29 L 0.00	42.53 0.00
9.000	0.0	0.0	0.00 R 0.00	0.00 0.00

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

Span ng	Moment Capacity				Available Capacity for LL+I				
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott	
. 6	1.000	300.6C	268.7	-268.7	-300.6C	300.6	268.7	-268.7	-300.
6	1.100	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.
2	1.200	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
5	1.300	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
6	1.400	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
3	1.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
5	1.600	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
4	1.700	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
9	1.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
2	1.900	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	2.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
9	2.100	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
3	2.200	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
4	2.300	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
2	2.400	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
7	2.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
6	2.600	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
3	2.700	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	2.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
6	2.900	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.



4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
4	3.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
5	3.100	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	3.200	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
9	3.300	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
2	3.400	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
2	3.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
5	3.600	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
6	3.700	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
4	3.800	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
9	3.900	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
1	4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

Span ng	Moment Capacity				Available Capacity for LL+I			
	Positive	Bending	Negative	Bending	Positive	Bending	Negative	Bendi
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott
4.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
4.100	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.
4.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4.300	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
4.400	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
4.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
4.600	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
4.700	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
4.800	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
4.900	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.000	300.6C	268.7	-268.7	-300.6C	336.1	304.1	-233.2	-265.
5.100	300.6C	268.7	-268.7	-300.6C	316.7	284.8	-252.6	-284.
5.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
5.300	300.6C	268.7	-268.7	-300.6C	290.9	258.9	-278.4	-310.
5.400	300.6C	268.7	-268.7	-300.6C	284.4	252.4	-284.9	-316.
5.500	300.6C	268.7	-268.7	-300.6C	282.2	250.2	-287.1	-319.
5.600	300.6C	268.7	-268.7	-300.6C	284.6	252.7	-284.7	-316.
5.700	300.6C	268.7	-268.7	-300.6C	291.3	259.4	-277.9	-309.
5.800	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
5.900	300.6C	268.7	-268.7	-300.6C	317.6	285.6	-251.7	-283.

1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
1	6.000	300.6C	268.7	-268.7	-300.6C	337.2	305.2	-232.1	-264.
9	6.100	300.6C	268.7	-268.7	-300.6C	317.4	285.4	-251.9	-283.
4	6.200	300.6C	268.7	-268.7	-300.6C	301.9	269.9	-267.4	-299.
6	6.300	300.6C	268.7	-268.7	-300.6C	290.7	258.7	-278.6	-310.
5	6.400	300.6C	268.7	-268.7	-300.6C	283.8	251.8	-285.5	-317.
2	6.500	300.6C	268.7	-268.7	-300.6C	281.1	249.1	-288.2	-320.
2	6.600	300.6C	268.7	-268.7	-300.6C	283.1	251.1	-286.2	-318.
9	6.700	300.6C	268.7	-268.7	-300.6C	289.3	257.4	-279.9	-311.
4	6.800	300.6C	268.7	-268.7	-300.6C	299.9	267.9	-269.4	-301.
5	6.900	300.6C	268.7	-268.7	-300.6C	314.7	282.8	-254.5	-286.
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.

## MOMENT CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

ng	Span	Moment Capacity				Available Capacity for LL+I			
		Positive Bending		Negative Bending		Positive Bending		Negative Bending	
		Top	Bott.	Top	Bott.	Top	Bott.	Top	Bott.
.									
4	7.000	300.6C	268.7	-268.7	-300.6C	333.9	301.9	-235.4	-267.
6	7.100	300.6C	268.7	-268.7	-300.6C	315.6	283.6	-253.7	-285.
6	7.200	300.6C	268.7	-268.7	-300.6C	301.7	269.7	-267.6	-299.
3	7.300	300.6C	268.7	-268.7	-300.6C	292.0	260.0	-277.3	-309.
6	7.400	300.6C	268.7	-268.7	-300.6C	286.6	254.7	-282.7	-314.
7	7.500	300.6C	268.7	-268.7	-300.6C	285.6	253.6	-283.7	-315.
2	7.600	300.6C	268.7	-268.7	-300.6C	289.1	257.1	-280.2	-312.
4	7.700	300.6C	268.7	-268.7	-300.6C	296.9	264.9	-272.4	-304.
3	7.800	300.6C	268.7	-268.7	-300.6C	309.0	277.0	-260.3	-292.
9	7.900	300.6C	268.7	-268.7	-300.6C	325.4	293.4	-243.9	-275.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.000	300.6C	268.7	-268.7	-300.6C	346.1	314.1	-223.2	-255.
2	8.100	300.6C	268.7	-268.7	-300.6C	322.1	290.1	-247.2	-279.
9	8.200	300.6C	268.7	-268.7	-300.6C	302.3	270.4	-267.0	-298.
4	8.300	300.6C	268.7	-268.7	-300.6C	286.9	254.9	-282.4	-314.
5	8.400	300.6C	268.7	-268.7	-300.6C	275.8	243.8	-293.5	-325.
3	8.500	300.6C	268.7	-268.7	-300.6C	268.9	236.9	-300.4	-332.
6	8.600	300.6C	268.7	-268.7	-300.6C	266.7	234.7	-302.6	-334.
5	8.700	300.6C	268.7	-268.7	-300.6C	268.7	236.8	-300.6	-332.
2	8.800	300.6C	268.7	-268.7	-300.6C	275.1	243.1	-294.2	-326.
6	8.900	300.6C	268.7	-268.7	-300.6C	285.7	253.7	-283.6	-315.

9.000 300.6C 268.7 -268.7 -300.6C 300.6 268.7 -268.7 -300.

6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	bottom fiber -bend	top fiber -bend	bottom fiber +bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	5.17	54.01	4.59	60.10	0.00	183.6
1.200	3.03	28.02	2.68	31.06	0.00	107.1
1.300	2.48	19.08	2.18	21.11	0.00	87.4
1.400	2.36	14.41	2.08	15.93	0.00	83.1
1.500	2.45	11.44	2.16	12.66	0.00	86.3
1.600	2.74	9.32	2.42	10.33	0.00	96.9
1.700	3.43	7.68	3.05	8.55	0.00	121.9
1.800	5.19	6.36	4.64	7.12	0.00	185.7
1.900	12.19	5.07	10.98	5.72	0.00	202.7
2.000	26.59	2.75	24.13	3.14	0.00	109.8
2.000	26.59	2.75	24.13	3.14	0.00	109.8
2.100	13.77	4.12	12.41	4.66	0.00	164.9
2.200	5.95	5.07	5.34	5.70	0.00	202.9
2.300	3.91	5.80	3.49	6.48	0.00	139.5
2.400	3.26	6.48	2.90	7.22	0.00	116.0
2.500	3.05	6.95	2.71	7.73	0.00	108.4
2.600	3.18	7.16	2.83	7.97	0.00	113.1
2.700	3.70	6.95	3.29	7.75	0.00	131.7
2.800	5.14	6.42	4.59	7.19	0.00	183.8
2.900	10.65	5.54	9.57	6.24	0.00	221.5
3.000	18.67	3.54	16.88	4.03	0.00	141.8
3.000	18.67	3.54	16.88	4.03	0.00	141.8
3.100	9.60	5.42	8.62	6.10	0.00	216.8
3.200	4.92	6.35	4.40	7.10	0.00	175.9
3.300	3.62	7.04	3.22	7.85	0.00	128.6
3.400	3.15	7.59	2.79	8.44	0.00	111.7
3.500	3.02	7.82	2.68	8.69	0.00	107.1
3.600	3.18	7.66	2.82	8.52	0.00	112.8
3.700	3.70	7.10	3.29	7.91	0.00	131.6
3.800	5.14	6.41	4.59	7.17	0.00	183.8
3.900	10.63	5.46	9.56	6.15	0.00	218.3
4.000	24.05	3.49	21.76	3.97	0.00	139.6

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	fiber -bend	bottom fiber +bend	fiber -bend		
4.000	24.05	3.49	21.76	3.97	0.00	139.6
4.100	10.56	5.44	9.50	6.14	0.00	217.8
4.200	5.13	6.39	4.59	7.15	0.00	183.6
4.300	3.70	7.08	3.30	7.90	0.00	131.8
4.400	3.19	7.63	2.83	8.49	0.00	113.2
4.500	3.06	7.85	2.71	8.72	0.00	108.4
4.600	3.19	7.67	2.83	8.53	0.00	113.2
4.700	3.70	7.10	3.29	7.92	0.00	131.8
4.800	5.14	6.41	4.59	7.18	0.00	183.6
4.900	10.60	5.47	9.53	6.16	0.00	218.8
5.000	23.85	3.51	21.58	3.99	0.00	140.2
5.000	23.85	3.51	21.58	3.99	0.00	140.2
5.100	10.60	5.47	9.53	6.16	0.00	218.8
5.200	5.14	6.41	4.59	7.18	0.00	183.6
5.300	3.70	7.10	3.29	7.92	0.00	131.8
5.400	3.19	7.64	2.83	8.50	0.00	113.2
5.500	3.06	7.85	2.71	8.72	0.00	108.4
5.600	3.19	7.66	2.83	8.52	0.00	113.2
5.700	3.70	7.09	3.30	7.90	0.00	131.8
5.800	5.13	6.39	4.59	7.15	0.00	183.6
5.900	10.56	5.44	9.50	6.14	0.00	217.8
6.000	25.06	3.49	22.68	3.97	0.00	139.6
6.000	25.06	3.49	22.68	3.97	0.00	139.6
6.100	10.63	5.46	9.56	6.15	0.00	218.3
6.200	5.14	6.41	4.59	7.17	0.00	183.8
6.300	3.70	7.10	3.29	7.91	0.00	131.6
6.400	3.18	7.66	2.82	8.52	0.00	112.8
6.500	3.02	7.82	2.68	8.69	0.00	107.1
6.600	3.15	7.62	2.79	8.47	0.00	111.7
6.700	3.62	7.04	3.22	7.85	0.00	128.6
6.800	4.92	6.35	4.40	7.10	0.00	175.9
6.900	9.60	5.42	8.62	6.10	0.00	216.8
7.000	18.67	3.55	16.88	4.03	0.00	141.8

## MOMENT RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 5C1

## Moment

Span	Rating Factor		Rating Factor		Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	18.67	3.55	16.88	4.03	0.00	141.8
7.100	10.65	5.54	9.57	6.24	0.00	221.5
7.200	5.14	6.42	4.59	7.19	0.00	183.8
7.300	3.70	6.95	3.29	7.75	0.00	131.7
7.400	3.18	7.16	2.83	7.97	0.00	113.1
7.500	3.05	6.95	2.71	7.73	0.00	108.4
7.600	3.26	6.48	2.90	7.22	0.00	116.0
7.700	3.91	5.80	3.49	6.49	0.00	139.5
7.800	5.95	5.07	5.34	5.70	0.00	202.9
7.900	13.77	4.12	12.41	4.66	0.00	164.9
8.000	26.59	2.75	24.13	3.14	0.00	109.8
8.000	26.59	2.75	24.13	3.14	0.00	109.8
8.100	12.19	5.07	10.98	5.72	0.00	202.7
8.200	5.19	6.36	4.64	7.12	0.00	185.7
8.300	3.43	7.68	3.05	8.55	0.00	121.9
8.400	2.74	9.32	2.42	10.33	0.00	96.9
8.500	2.45	11.44	2.16	12.66	0.00	86.3
8.600	2.36	14.41	2.08	15.93	0.00	83.1
8.700	2.48	19.08	2.18	21.11	0.00	87.4
8.800	3.03	28.02	2.68	31.06	0.00	107.1
8.900	5.17	54.01	4.59	60.10	0.00	183.6
9.000	999.00	999.00	999.00	999.00	0.00	999.0



## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
1.000	0.6	6.6	27.46	0.00	21.13	0.00
1.100	0.4	4.9	23.12	0.00	17.78	0.00
1.200	0.3	3.3	18.98	0.00	14.60	0.00
1.300	0.1	1.6	15.10	0.00	11.62	0.00
1.400	0.0	-0.1	-12.22	0.00	-9.40	0.00
1.500	-0.2	-1.7	-14.74	0.00	-11.34	0.00
1.600	-0.3	-3.5	-17.66	0.00	-13.59	0.00
1.700	-0.5	-5.1	-20.73	0.00	-15.94	0.00
1.800	-0.6	-6.7	-23.87	0.00	-18.36	0.00
1.900	-0.8	-8.4	-27.19	0.00	-20.92	0.00
2.000	-0.9	-10.0	-30.19	0.00	-23.23	0.00
2.000	0.8	-10.0	28.92	0.00	22.25	0.00
2.100	0.6	7.1	25.54	0.00	19.65	0.00
2.200	0.5	5.5	21.74	0.00	16.72	0.00
2.300	0.3	3.8	17.87	0.00	13.75	0.00
2.400	0.2	2.2	14.89	0.00	11.45	0.00
2.500	0.0	0.5	12.26	0.00	9.43	0.00
2.600	-0.1	-1.2	-14.71	0.00	-11.31	0.00
2.700	-0.3	-2.9	-17.98	0.00	-13.83	0.00
2.800	-0.4	-4.5	-21.57	0.00	-16.59	0.00
2.900	-0.6	-6.2	-25.16	0.00	-19.36	0.00
3.000	-0.7	-7.8	-28.58	0.00	-21.99	0.00
3.000	0.7	8.2	28.29	0.00	21.76	0.00
3.100	0.6	6.5	24.87	0.00	19.13	0.00
3.200	0.4	4.9	21.30	0.00	16.39	0.00
3.300	0.3	3.2	17.80	0.00	13.69	0.00
3.400	0.1	1.6	14.79	0.00	11.38	0.00
3.500	0.0	-0.1	-11.79	0.00	-9.07	0.00
3.600	-0.2	-1.8	-14.80	0.00	-11.38	0.00
3.700	-0.3	-3.5	-17.81	0.00	-13.70	0.00
3.800	-0.5	-5.1	-21.40	0.00	-16.47	0.00
3.900	-0.6	-6.8	-25.02	0.00	-19.25	0.00
4.000	-0.8	-8.4	-28.47	0.00	-21.90	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
4.000	0.7	-8.4	28.44	0.00	21.88	0.00
4.100	0.6	6.7	25.00	0.00	19.23	0.00
4.200	0.5	5.0	21.39	0.00	16.45	0.00
4.300	0.3	3.4	17.80	0.00	13.69	0.00
4.400	0.2	1.8	14.80	0.00	11.38	0.00
4.500	0.0	0.1	11.76	0.00	9.05	0.00
4.600	-0.1	-1.7	-14.80	0.00	-11.38	0.00
4.700	-0.3	-3.3	-17.80	0.00	-13.69	0.00
4.800	-0.4	-5.0	-21.39	0.00	-16.46	0.00
4.900	-0.6	-6.6	-25.01	0.00	-19.24	0.00
5.000	-0.7	-8.2	-28.46	0.00	-21.89	0.00
5.000	0.7	8.2	28.46	0.00	21.89	0.00
5.100	0.6	6.6	25.01	0.00	19.24	0.00
5.200	0.4	5.0	21.39	0.00	16.46	0.00
5.300	0.3	3.3	17.80	0.00	13.69	0.00
5.400	0.1	1.7	14.80	0.00	11.38	0.00
5.500	0.0	0.1	11.76	0.00	9.05	0.00
5.600	-0.2	-1.8	-14.80	0.00	-11.38	0.00
5.700	-0.3	-3.4	-17.80	0.00	-13.69	0.00
5.800	-0.5	-5.0	-21.39	0.00	-16.45	0.00
5.900	-0.6	-6.7	-25.00	0.00	-19.23	0.00
6.000	-0.7	-8.3	-28.44	0.00	-21.88	0.00
6.000	0.8	8.4	28.47	0.00	21.90	0.00
6.100	0.6	6.8	25.02	0.00	19.25	0.00
6.200	0.5	5.1	21.40	0.00	16.47	0.00
6.300	0.3	3.5	17.81	0.00	13.70	0.00
6.400	0.2	1.8	14.80	0.00	11.38	0.00
6.500	0.0	0.2	11.79	0.00	9.07	0.00
6.600	-0.1	-1.6	-14.79	0.00	-11.38	0.00
6.700	-0.3	-3.2	-17.80	0.00	-13.69	0.00
6.800	-0.4	-4.9	-21.30	0.00	-16.39	0.00
6.900	-0.6	-6.5	-24.87	0.00	-19.13	0.00
7.000	-0.7	-8.2	-28.29	0.00	-21.76	0.00

## SHEAR REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Dead Load	Superimposed Dead Load	Live Load w/impact Truck	Live Load w/impact Lane	Live Load w/o impact Truck	Live Load w/o impact Lane
7.000	0.7	-8.2	28.58	0.00	21.99	0.00
7.100	0.6	6.2	25.16	0.00	19.36	0.00
7.200	0.4	4.5	21.57	0.00	16.59	0.00
7.300	0.3	2.9	17.98	0.00	13.83	0.00
7.400	0.1	1.2	14.71	0.00	11.31	0.00
7.500	0.0	-0.5	-12.26	0.00	-9.43	0.00
7.600	-0.2	-2.2	-14.89	0.00	-11.45	0.00
7.700	-0.3	-3.8	-17.87	0.00	-13.75	0.00
7.800	-0.5	-5.5	-21.74	0.00	-16.72	0.00
7.900	-0.6	-7.1	-25.54	0.00	-19.65	0.00
8.000	-0.8	-8.8	-29.11	0.00	-22.39	0.00
8.000	0.9	10.0	30.19	0.00	23.23	0.00
8.100	0.8	8.4	27.19	0.00	20.92	0.00
8.200	0.6	6.7	23.87	0.00	18.36	0.00
8.300	0.5	5.1	20.73	0.00	15.94	0.00
8.400	0.3	3.5	17.66	0.00	13.59	0.00
8.500	0.2	1.8	14.74	0.00	11.34	0.00
8.600	0.0	0.1	11.94	0.00	9.19	0.00
8.700	-0.1	-1.6	-15.10	0.00	-11.62	0.00
8.800	-0.3	-3.3	-18.98	0.00	-14.60	0.00
8.900	-0.4	-4.9	-23.12	0.00	-17.78	0.00
9.000	-0.6	-6.6	-27.46	0.00	-21.13	0.00

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
1.000	151.3	-123.5	109.2
1.100	151.3	-121.7	111.0
1.200	151.3	-119.9	112.8
1.300	151.3	-118.1	114.6
1.400	151.3	-116.3	116.4
1.500	151.3	-114.6	118.2
1.600	151.3	-112.6	120.1
1.700	151.3	-110.8	121.9
1.800	151.3	-109.0	123.7
1.900	151.3	-107.2	125.5
2.000	151.3	-105.4	127.3
2.000	151.3	-105.4	106.8
2.100	151.3	-124.1	108.6
2.200	151.3	-122.3	110.4
2.300	151.3	-120.5	112.2
2.400	151.3	-118.7	114.0
2.500	151.3	-116.9	115.8
2.600	151.3	-115.0	117.7
2.700	151.3	-113.2	119.5
2.800	151.3	-111.4	121.3
2.900	151.3	-109.6	123.1
3.000	151.3	-107.8	117.1
3.000	151.3	-107.8	107.5
3.100	151.3	-123.5	109.3
3.200	151.3	-121.7	111.1
3.300	151.3	-119.9	112.9
3.400	151.3	-118.1	114.7
3.500	151.3	-116.3	116.4
3.600	151.3	-114.4	118.4
3.700	151.3	-112.6	120.2
3.800	151.3	-110.8	122.0
3.900	151.3	-109.0	123.8
4.000	151.3	-107.2	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
4.000	151.3	-107.2	107.3
4.100	151.3	-123.7	109.1
4.200	151.3	-121.9	110.9
4.300	151.3	-120.1	112.7
4.400	151.3	-118.3	114.5
4.500	151.3	-116.5	116.3
4.600	151.3	-114.6	118.2
4.700	151.3	-112.8	120.0
4.800	151.3	-111.0	121.8
4.900	151.3	-109.2	123.6
5.000	151.3	-107.4	117.1
5.000	151.3	-107.4	107.4
5.100	151.3	-123.6	109.2
5.200	151.3	-121.8	111.0
5.300	151.3	-120.0	112.8
5.400	151.3	-118.2	114.6
5.500	151.3	-116.4	116.4
5.600	151.3	-114.5	118.3
5.700	151.3	-112.7	120.1
5.800	151.3	-110.9	121.9
5.900	151.3	-109.1	123.7
6.000	151.3	-107.3	117.1
6.000	151.3	-107.3	107.2
6.100	151.3	-123.8	109.0
6.200	151.3	-122.0	110.8
6.300	151.3	-120.2	112.6
6.400	151.3	-118.4	114.4
6.500	151.3	-116.6	116.2
6.600	151.3	-114.7	118.1
6.700	151.3	-112.9	119.9
6.800	151.3	-111.1	121.7
6.900	151.3	-109.3	123.5
7.000	151.3	-107.5	117.1

## SHEAR CAPACITY REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

Span	Shear Capacity VU	Available Capacity for LL+I	
		(-)	(+)
7.000	151.3	-107.5	107.8
7.100	151.3	-123.1	109.6
7.200	151.3	-121.3	111.4
7.300	151.3	-119.5	113.2
7.400	151.3	-117.7	115.0
7.500	151.3	-115.9	116.8
7.600	151.3	-114.0	118.7
7.700	151.3	-112.2	120.5
7.800	151.3	-110.4	122.3
7.900	151.3	-108.6	124.1
8.000	151.3	-106.8	117.2
8.000	151.3	-106.8	105.4
8.100	151.3	-125.5	107.2
8.200	151.3	-123.7	109.0
8.300	151.3	-121.9	110.8
8.400	151.3	-120.1	112.6
8.500	151.3	-118.3	114.4
8.600	151.3	-116.4	116.3
8.700	151.3	-114.6	118.1
8.800	151.3	-112.8	119.9
8.900	151.3	-111.0	121.7
9.000	151.3	-109.2	117.0

## SHEAR RATING REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
1.000	56.26	3.98	0.00	159.1
1.100	31.87	4.80	0.00	192.1
1.200	20.33	5.95	0.00	237.8
1.300	13.12	7.59	0.00	303.6
1.400	9.52	9.85	0.00	380.7
1.500	7.77	12.89	0.00	310.9
1.600	6.38	17.84	0.00	255.0
1.700	5.35	27.02	0.00	213.9
1.800	4.57	48.31	0.00	182.7
1.900	3.94	132.98	0.00	157.7
2.000	3.49	233.92	0.00	139.7
2.000	3.49	3.69	0.00	139.7
2.100	38.99	4.25	0.00	170.1
2.200	24.70	5.08	0.00	203.2
2.300	17.14	6.28	0.00	251.1
2.400	12.65	7.66	0.00	306.3
2.500	9.78	9.44	0.00	377.7
2.600	7.82	11.79	0.00	312.8
2.700	6.30	15.29	0.00	251.9
2.800	5.17	20.87	0.00	206.6
2.900	4.36	30.57	0.00	174.3
3.000	3.77	33.09	0.00	150.9
3.000	3.77	3.80	0.00	150.9
3.100	38.25	4.39	0.00	175.7
3.200	24.86	5.21	0.00	208.6
3.300	17.36	6.34	0.00	253.6
3.400	12.81	7.75	0.00	310.1
3.500	9.86	9.94	0.00	394.5
3.600	7.73	12.89	0.00	309.1
3.700	6.32	17.41	0.00	252.8
3.800	5.18	24.80	0.00	207.0
3.900	4.36	37.81	0.00	174.3
4.000	3.77	43.99	0.00	150.6

## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
4.000	3.77	3.77	0.00	150.6
4.100	38.27	4.36	0.00	174.5
4.200	24.92	5.18	0.00	207.4
4.300	17.41	6.33	0.00	253.1
4.400	12.85	7.74	0.00	309.4
4.500	9.90	9.89	0.00	395.5
4.600	7.74	12.84	0.00	309.6
4.700	6.33	17.40	0.00	253.4
4.800	5.19	24.89	0.00	207.5
4.900	4.37	38.21	0.00	174.6
5.000	3.77	42.00	0.00	150.9
5.000	3.77	3.77	0.00	150.9
5.100	38.21	4.37	0.00	174.6
5.200	24.89	5.19	0.00	207.5
5.300	17.40	6.33	0.00	253.4
5.400	12.84	7.74	0.00	309.6
5.500	9.90	9.89	0.00	395.6
5.600	7.74	12.85	0.00	309.4
5.700	6.33	17.41	0.00	253.1
5.800	5.18	24.92	0.00	207.4
5.900	4.36	38.27	0.00	174.5
6.000	3.77	42.20	0.00	150.9
6.000	3.77	3.77	0.00	150.6
6.100	37.81	4.36	0.00	174.3
6.200	24.80	5.18	0.00	207.0
6.300	17.41	6.32	0.00	252.8
6.400	12.89	7.73	0.00	309.1
6.500	9.95	9.85	0.00	394.0
6.600	7.75	12.81	0.00	310.1
6.700	6.34	17.36	0.00	253.6
6.800	5.21	24.86	0.00	208.6
6.900	4.39	38.25	0.00	175.7
7.000	3.80	42.26	0.00	152.0



## SHEAR RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.

Rating Live Load: 5C1

## Shear

Span	Rating (-)	Factor (+)	Rating Value	Load Capacity (tons)
7.000	3.80	3.77	0.00	150.9
7.100	30.57	4.36	0.00	174.3
7.200	20.87	5.17	0.00	206.6
7.300	15.29	6.30	0.00	251.9
7.400	11.79	7.82	0.00	312.8
7.500	9.45	9.77	0.00	378.1
7.600	7.66	12.65	0.00	306.3
7.700	6.28	17.14	0.00	251.1
7.800	5.08	24.70	0.00	203.2
7.900	4.25	38.99	0.00	170.1
8.000	3.67	43.05	0.00	146.8
8.000	3.67	3.49	0.00	139.7
8.100	132.98	3.94	0.00	157.7
8.200	48.31	4.57	0.00	182.7
8.300	27.02	5.35	0.00	213.9
8.400	17.84	6.38	0.00	255.0
8.500	12.90	7.76	0.00	310.6
8.600	9.85	9.74	0.00	389.6
8.700	7.59	13.12	0.00	303.6
8.800	5.95	20.33	0.00	237.8
8.900	4.80	31.87	0.00	192.1
9.000	3.98	999.00	0.00	159.1

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

Span g tt.	Moment Capacity		Available Capacity for LL+I	
	Positive Bending Top	Negative Bending Bott.	Positive Bending Top	Negative Bending Bott.
1.000 79.4	279.4	279.4	-279.4	-279.4
1.100 94.3	279.4	279.4	-279.4	-279.4
1.200 05.0	279.4	279.4	-279.4	-279.4
1.300 11.3	279.4	279.4	-279.4	-279.4
1.400 13.3	279.4	279.4	-279.4	-279.4
1.500 11.1	279.4	279.4	-279.4	-279.4
1.600 04.3	279.4	279.4	-279.4	-279.4
1.700 93.1	279.4	279.4	-279.4	-279.4
1.800 77.7	279.4	279.4	-279.4	-279.4
1.900 58.0	279.4	279.4	-279.4	-279.4
2.000 34.0	279.4	279.4	-279.4	-279.4
2.000 34.0	279.4	279.4	-279.4	-279.4
2.100 54.7	279.4	279.4	-279.4	-279.4
2.200 71.1	279.4	279.4	-279.4	-279.4
2.300 83.2	279.4	279.4	-279.4	-279.4
2.400 91.0	279.4	279.4	-279.4	-279.4
2.500 94.5	279.4	279.4	-279.4	-279.4
2.600 93.4	279.4	279.4	-279.4	-279.4
2.700 88.0	279.4	279.4	-279.4	-279.4
2.800 78.4	279.4	279.4	-279.4	-279.4
2.900 64.4	279.4	279.4	-279.4	-279.4

3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
3.100 65.3	279.4	279.4	-279.4	-279.4	293.5	293.5	-265.3	-2
3.200 80.1	279.4	279.4	-279.4	-279.4	278.7	278.7	-280.1	-2
3.300 90.7	279.4	279.4	-279.4	-279.4	268.1	268.1	-290.7	-2
3.400 96.9	279.4	279.4	-279.4	-279.4	261.9	261.9	-296.9	-2
3.500 98.9	279.4	279.4	-279.4	-279.4	259.9	259.9	-298.9	-2
3.600 96.3	279.4	279.4	-279.4	-279.4	262.5	262.5	-296.3	-2
3.700 89.4	279.4	279.4	-279.4	-279.4	269.4	269.4	-289.4	-2
3.800 78.1	279.4	279.4	-279.4	-279.4	280.7	280.7	-278.1	-2
3.900 62.6	279.4	279.4	-279.4	-279.4	296.2	296.2	-262.6	-2
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2

## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
4.000 42.8	279.4	279.4	-279.4	-279.4	316.0	316.0	-242.8	-2
4.100 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2
4.200 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
4.300 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
4.400 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
4.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
4.600 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
4.700 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
4.800 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
4.900 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.000 43.9	279.4	279.4	-279.4	-279.4	314.9	314.9	-243.9	-2
5.100 63.3	279.4	279.4	-279.4	-279.4	295.5	295.5	-263.3	-2
5.200 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
5.300 89.1	279.4	279.4	-279.4	-279.4	269.7	269.7	-289.1	-2
5.400 95.6	279.4	279.4	-279.4	-279.4	263.2	263.2	-295.6	-2
5.500 97.8	279.4	279.4	-279.4	-279.4	261.0	261.0	-297.8	-2
5.600 95.4	279.4	279.4	-279.4	-279.4	263.4	263.4	-295.4	-2
5.700 88.7	279.4	279.4	-279.4	-279.4	270.1	270.1	-288.7	-2
5.800 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
5.900 62.4	279.4	279.4	-279.4	-279.4	296.4	296.4	-262.4	-2



## SERVICEABILITY CAPACITY REPORT

Structure I. D.

HAM500

Member I. D.

S03

Rating Type:

OPER.

Rating Live Load:

5C1

Span g tt.	Moment Capacity				Available Capacity for LL+I			
	Positive Bending		Negative Bending		Positive Bending		Negative Bending	
	Top	Bott.	Top	Bott.	Top	Bott.	Top	Bo
7.000 46.2	279.4	279.4	-279.4	-279.4	312.6	312.6	-246.2	-2
7.100 64.4	279.4	279.4	-279.4	-279.4	294.4	294.4	-264.4	-2
7.200 78.4	279.4	279.4	-279.4	-279.4	280.4	280.4	-278.4	-2
7.300 88.0	279.4	279.4	-279.4	-279.4	270.8	270.8	-288.0	-2
7.400 93.4	279.4	279.4	-279.4	-279.4	265.4	265.4	-293.4	-2
7.500 94.5	279.4	279.4	-279.4	-279.4	264.3	264.3	-294.5	-2
7.600 91.0	279.4	279.4	-279.4	-279.4	267.8	267.8	-291.0	-2
7.700 83.2	279.4	279.4	-279.4	-279.4	275.6	275.6	-283.2	-2
7.800 71.1	279.4	279.4	-279.4	-279.4	287.7	287.7	-271.1	-2
7.900 54.7	279.4	279.4	-279.4	-279.4	304.1	304.1	-254.7	-2
8.000 34.0	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
8.000 34.0	279.4	279.4	-279.4	-279.4	324.8	324.8	-234.0	-2
8.100 58.0	279.4	279.4	-279.4	-279.4	300.8	300.8	-258.0	-2
8.200 77.7	279.4	279.4	-279.4	-279.4	281.1	281.1	-277.7	-2
8.300 93.1	279.4	279.4	-279.4	-279.4	265.7	265.7	-293.1	-2
8.400 04.3	279.4	279.4	-279.4	-279.4	254.5	254.5	-304.3	-3
8.500 11.1	279.4	279.4	-279.4	-279.4	247.7	247.7	-311.1	-3
8.600 13.3	279.4	279.4	-279.4	-279.4	245.5	245.5	-313.3	-3
8.700 11.3	279.4	279.4	-279.4	-279.4	247.5	247.5	-311.3	-3
8.800 05.0	279.4	279.4	-279.4	-279.4	253.8	253.8	-305.0	-3
8.900 94.3	279.4	279.4	-279.4	-279.4	264.5	264.5	-294.3	-2

9.000	279.4	279.4	-279.4	-279.4	279.4	279.4	-279.4	-2
79.4								

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
1.000	999.00	999.00	999.00	999.00	0.00	999.0
1.100	4.78	56.06	4.78	56.06	0.00	191.3
1.200	2.80	29.04	2.80	29.04	0.00	111.9
1.300	2.28	19.76	2.28	19.76	0.00	91.4
1.400	2.17	14.92	2.17	14.92	0.00	86.9
1.500	2.26	11.85	2.26	11.85	0.00	90.2
1.600	2.53	9.66	2.53	9.66	0.00	101.1
1.700	3.18	7.98	3.18	7.98	0.00	127.1
1.800	4.83	6.61	4.83	6.61	0.00	193.1
1.900	11.38	5.29	11.38	5.29	0.00	211.5
2.000	24.95	2.88	24.95	2.88	0.00	115.1
2.000	24.95	2.88	24.95	2.88	0.00	115.1
2.100	12.87	4.30	12.87	4.30	0.00	172.2
2.200	5.55	5.28	5.55	5.28	0.00	211.3
2.300	3.63	6.03	3.63	6.03	0.00	145.1
2.400	3.02	6.73	3.02	6.73	0.00	120.8
2.500	2.83	7.21	2.83	7.21	0.00	113.0
2.600	2.95	7.43	2.95	7.43	0.00	117.9
2.700	3.43	7.22	3.43	7.22	0.00	137.2
2.800	4.78	6.68	4.78	6.68	0.00	191.1
2.900	9.94	5.77	9.94	5.77	0.00	230.9
3.000	17.49	3.71	17.49	3.71	0.00	148.2
3.000	17.49	3.71	17.49	3.71	0.00	148.2
3.100	8.95	5.65	8.95	5.65	0.00	226.0
3.200	4.57	6.60	4.57	6.60	0.00	182.9
3.300	3.35	7.31	3.35	7.31	0.00	134.0
3.400	2.91	7.88	2.91	7.88	0.00	116.5
3.500	2.79	8.11	2.79	8.11	0.00	111.7
3.600	2.94	7.95	2.94	7.95	0.00	117.6
3.700	3.43	7.37	3.43	7.37	0.00	137.1
3.800	4.78	6.66	4.78	6.66	0.00	191.1
3.900	9.92	5.69	9.92	5.69	0.00	227.7
4.000	22.53	3.65	22.53	3.65	0.00	146.0



## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
4.000	22.53	3.65	22.53	3.65	0.00	146.0
4.100	9.85	5.68	9.85	5.68	0.00	227.1
4.200	4.77	6.64	4.77	6.64	0.00	190.9
4.300	3.43	7.36	3.43	7.36	0.00	137.3
4.400	2.95	7.92	2.95	7.92	0.00	118.0
4.500	2.83	8.14	2.83	8.14	0.00	113.0
4.600	2.95	7.96	2.95	7.96	0.00	118.0
4.700	3.43	7.38	3.43	7.38	0.00	137.2
4.800	4.77	6.67	4.77	6.67	0.00	190.9
4.900	9.89	5.70	9.89	5.70	0.00	228.1
5.000	22.34	3.67	22.34	3.67	0.00	146.7
5.000	22.34	3.67	22.34	3.67	0.00	146.7
5.100	9.89	5.70	9.89	5.70	0.00	228.1
5.200	4.77	6.67	4.77	6.67	0.00	190.9
5.300	3.43	7.38	3.43	7.38	0.00	137.2
5.400	2.95	7.93	2.95	7.93	0.00	118.0
5.500	2.83	8.14	2.83	8.14	0.00	113.0
5.600	2.95	7.95	2.95	7.95	0.00	118.0
5.700	3.43	7.36	3.43	7.36	0.00	137.3
5.800	4.77	6.64	4.77	6.64	0.00	190.9
5.900	9.85	5.68	9.85	5.68	0.00	227.1
6.000	23.48	3.65	23.48	3.65	0.00	146.1
6.000	23.48	3.65	23.48	3.65	0.00	146.1
6.100	9.92	5.69	9.92	5.69	0.00	227.7
6.200	4.78	6.66	4.78	6.66	0.00	191.1
6.300	3.43	7.37	3.43	7.37	0.00	137.1
6.400	2.94	7.95	2.94	7.95	0.00	117.6
6.500	2.79	8.11	2.79	8.11	0.00	111.7
6.600	2.91	7.91	2.91	7.91	0.00	116.5
6.700	3.35	7.31	3.35	7.31	0.00	134.0
6.800	4.57	6.60	4.57	6.60	0.00	182.9
6.900	8.95	5.65	8.95	5.65	0.00	226.0
7.000	17.49	3.71	17.49	3.71	0.00	148.3

## SERVICEABILITY RATING REPORT

Structure I. D. HAM500

Member I. D. S03

Rating Type: OPER.  
Rating Live Load: 5C1

## Moment

Span	Rating Factor				Rating Value	Load Capacity (tons)
	top fiber +bend	top fiber -bend	bottom fiber +bend	bottom fiber -bend		
7.000	17.49	3.71	17.49	3.71	0.00	148.3
7.100	9.94	5.77	9.94	5.77	0.00	230.9
7.200	4.78	6.68	4.78	6.68	0.00	191.1
7.300	3.43	7.22	3.43	7.22	0.00	137.2
7.400	2.95	7.43	2.95	7.43	0.00	117.9
7.500	2.83	7.21	2.83	7.21	0.00	113.0
7.600	3.02	6.73	3.02	6.73	0.00	120.8
7.700	3.63	6.03	3.63	6.03	0.00	145.1
7.800	5.55	5.28	5.55	5.28	0.00	211.3
7.900	12.87	4.30	12.87	4.30	0.00	172.2
8.000	24.95	2.88	24.95	2.88	0.00	115.1
8.000	24.95	2.88	24.95	2.88	0.00	115.1
8.100	11.38	5.29	11.38	5.29	0.00	211.5
8.200	4.83	6.61	4.83	6.61	0.00	193.1
8.300	3.18	7.98	3.18	7.98	0.00	127.1
8.400	2.53	9.66	2.53	9.66	0.00	101.1
8.500	2.26	11.85	2.26	11.85	0.00	90.2
8.600	2.17	14.92	2.17	14.92	0.00	86.9
8.700	2.28	19.76	2.28	19.76	0.00	91.4
8.800	2.80	29.04	2.80	29.04	0.00	111.9
8.900	4.78	56.06	4.78	56.06	0.00	191.3
9.000	999.00	999.00	999.00	999.00	0.00	999.0