

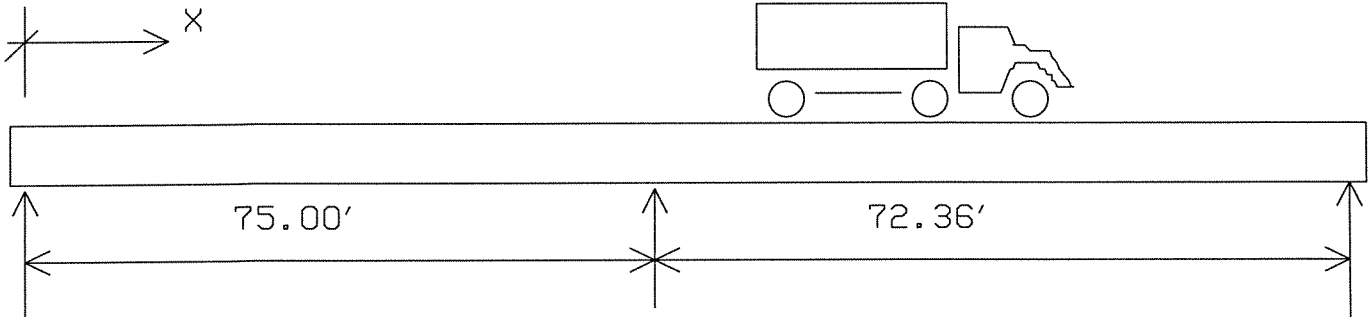
FIRM:Your Firm  
 MADE BY:KJH DATE:06-03-2005  
 TITLE:Example CBRIDGE output

JOB NO.2004-0028 SHEET NO: 1  
 CHECKED BY: DATE:

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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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DESIGN DATA:

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Design Method: AASTHO Standard Specification, Load Factor Design  
 Dead load factor= 1.3; Live load factor=1.3 x 5/3 = 2.17  
 Live Load: HS20-44 Truck Load and Equivalent Lane Loading  
 Beam type: Steel composite beam.  
 Composite in positive dead load moment regions  
 Non-composite in negative dead load moment regions

Modulus of Elasticity, E= 29000 ksi

LOADS PER BEAM:

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Span No.	Non-Composite DL (k/ft)	Superimposed DL (k/ft)	Distribution Factor (lanes/beam)
1	1.118	.585	.699
2	1.131	.585	.699

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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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BEAM PROPERTIES:

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Section No.	Length (ft.)	Ending At X (ft.)	Non-Composite I (in <sup>4</sup> )	Composite I (in <sup>4</sup> )
1	63.75	63.75	11976.08	30801.91
2	83.61	147.36	13058.84	32962.71

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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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Span No. 1, Table of Dead Load Displacements (Unfactored)

Location (ft.)	Non-Composite DL		Superimposed DL		Total	
	Deflection (in.)	Rotation (radians)	Deflection (in.)	Rotation (radians)	Deflection (in.)	Rotation (radians)
0.00	0.000	-0.0041	0.0000	-0.0011	0.000	-0.0052
7.50	-.360	-0.0037	-0.0970	-0.0009	-.457	-0.0047
15.00	-.665	-0.0029	-.1750	-0.0007	-.840	-0.0036
22.50	-.875	-0.0017	-.2314	-0.0004	-1.107	-0.0021
30.00	-.968	-0.0003	-.2605	-0.0001	-1.229	-0.0005
37.50	-.938	0.0009	-.2599	0.0001	-1.198	0.0011
45.00	-.799	0.0020	-.2313	0.0004	-1.030	0.0025
52.50	-.580	0.0027	-.1796	0.0006	-.759	0.0033
60.00	-.328	0.0027	-.1106	0.0008	-.439	0.0035
67.50	-.110	0.0019	-0.0393	0.0006	-.149	0.0026
75.00	0.000	0.0003	0.0000	0.0001	0.000	0.0004

Span No. 2, Table of Dead Load Displacements (Unfactored)

Location (ft.)	Non-Composite DL		Superimposed DL		Total	
	Deflection (in.)	Rotation (radians)	Deflection (in.)	Rotation (radians)	Deflection (in.)	Rotation (radians)
0.00	0.000	0.0003	0.0000	0.0001	0.000	0.0004
7.23	-0.051	-0.0013	-0.0197	-0.0004	-0.071	-0.0018
14.47	-.206	-0.0021	-0.0712	-0.0006	-.277	-0.0027
21.70	-.397	-0.0021	-.1244	-0.0005	-.521	-0.0027
28.94	-.569	-0.0017	-.1660	-0.0003	-.735	-0.0021
36.18	-.684	-0.0008	-.1900	-0.0001	-.874	-0.0010
43.41	-.715	0.0001	-.1923	0.0001	-.908	0.0002
50.65	-.653	0.0012	-.1714	0.0003	-.824	0.0016
57.88	-.499	0.0022	-.1289	0.0005	-.628	0.0028
65.12	-.271	0.0029	-0.0693	0.0007	-.340	0.0037
72.36	0.000	0.0032	0.0000	0.0008	0.000	0.0040

Span No. 1, Table of Factored Maximum Moments (Units=k\*ft)

Location (ft.)	Non-Comp.	Superimposed	HS20Truck+Impact		HS20Lane+Impact	
	DL	DL	Pos.	Neg.	Pos.	Neg.
0.00	0.0	0.0	0.0	0.0	0.0	0.0
7.50	268.3	154.1	705.2	-61.0	500.1	-60.6
15.00	454.9	265.5	1213.1	-122.1	872.0	-121.3
22.50	559.7	334.1	1579.4	-183.2	1117.2	-182.0
30.00	582.8	359.9	1727.9	-244.3	1237.8	-242.7
37.50	524.1	342.9	1711.8	-305.4	1237.0	-303.4
45.00	383.6	283.2	1570.6	-366.5	1119.0	-364.1
52.50	161.4	180.7	1250.5	-427.5	888.7	-424.8
60.00	-142.5	35.4	785.6	-488.6	555.2	-485.5
67.50	-528.2	-152.6	230.6	-549.7	186.2	-593.3
75.00	-995.7	-383.5	0.0	-715.6	0.0	-997.9

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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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Span No. 2, Table of Factored Maximum Moments (Units=k\*ft)

Location (ft.)	Non-Comp.	Superimposed	HS20Truck+Impact		HS20Lane+Impact	
	DL	DL	Pos.	Neg.	Pos.	Neg.
0.00	-995.7	-383.5	0.0	-715.6	0.0	-997.9
7.23	-549.6	-165.9	260.5	-644.1	198.8	-671.9
14.47	-180.5	11.7	805.2	-572.5	569.7	-576.1
21.70	111.5	149.6	1251.2	-500.9	882.3	-504.1
28.94	326.5	247.7	1550.2	-429.4	1094.9	-432.1
36.18	464.6	305.9	1673.7	-357.8	1200.5	-360.1
43.41	525.7	324.4	1683.8	-286.2	1194.9	-288.0
50.65	509.7	303.0	1531.8	-214.7	1074.4	-216.0
57.88	416.8	241.8	1170.7	-143.1	836.2	-144.0
65.12	246.9	140.8	682.2	-71.5	478.5	-72.0
72.36	0.0	0.0	0.0	0.0	0.0	0.0

Span No. 1, Table of Factored Maximum Shears (Units = kips)

Location (ft.)	Non-Comp.	Superimposed	HS20Truck+Impact		HS20Lane+Impact	
	DL	DL	Min.	Max.	Min.	Max.
0.00	41.2	23.4	-8.0	116.8	-6.8	90.4
7.50	35.7	17.7	-8.0	100.9	-10.6	80.0
15.00	24.8	11.9	-15.2	85.4	-18.5	66.2
22.50	13.9	6.2	-29.3	70.3	-27.3	53.6
30.00	3.0	.5	-43.7	55.7	-37.1	42.1
37.50	-7.8	-5.1	-59.0	41.8	-47.6	31.8
45.00	-18.7	-10.8	-73.9	28.9	-58.9	22.8
52.50	-29.6	-16.5	-88.2	17.4	-70.9	14.9
60.00	-40.5	-22.2	-101.8	7.8	-83.3	8.4
67.50	-51.4	-27.9	-114.0	.5	-95.6	3.3
75.00	-62.3	-33.6	-124.5	0.0	-103.1	0.0

Span No. 2, Table of Factored Maximum Shears (Units = kips)

Location (ft.)	Non-Comp.	Superimposed	HS20Truck+Impact		HS20Lane+Impact	
	DL	DL	Min.	Max.	Min.	Max.
0.00	66.9	32.8	0.0	123.8	0.0	101.8
7.23	61.6	27.3	-.2	112.9	-3.6	94.5
14.47	51.0	21.8	-7.9	100.4	-8.8	82.3
21.70	40.3	16.3	-17.8	86.7	-15.4	70.2
28.94	29.7	10.8	-29.4	72.4	-23.3	58.5
36.18	19.0	5.3	-42.4	57.6	-32.3	47.5
43.41	8.4	-.2	-56.2	42.4	-42.4	37.2
50.65	-2.2	-5.7	-70.8	28.4	-53.7	27.7
57.88	-12.8	-11.2	-85.8	14.5	-66.1	19.1
65.12	-23.4	-16.7	-101.1	9.9	-79.6	11.3
72.36	-34.1	-22.2	-116.7	9.9	-89.7	8.4

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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1  
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Table of Reactions (Unfactored)

Support No.	---DL Beam Reactions--		--LL Beam Reactions (no impact)---			
	Non-Comp. DL	Superimposed DL	HS20Truck		HS20Lane	
			Min.	Max.	Min.	Max.
1	31.7	18.0	-2.9	43.3	-1.3	33.5
2	99.4	51.1	0.0	48.5	0.0	58.0
3	26.2	17.0	-3.6	42.7	-1.3	33.5

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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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DEFLECTIONS DUE TO SLAB PLUS FILLET ONLY

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Span No.	Slab + Fillet DL (k/ft)	1/4 Pt Def. (inch)	1/2 Pt Def (inch)	3/4 Pt. Def (inch)
1	.872	-.604	-.738	-.359
2	.872	-.228	-.522	-.441

DEFLECTIONS DUE TO SLAB + FILLET + SUPERIMPOSED DL

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(TO BE USED FOR ADJUSTING DECK ELEVATIONS)

Span No.	1/4 Pt Def. (inch)	1/2 Pt Def (inch)	3/4 Pt. Def (inch)
1	-.808	-.998	-.504
2	-.325	-.712	-.591

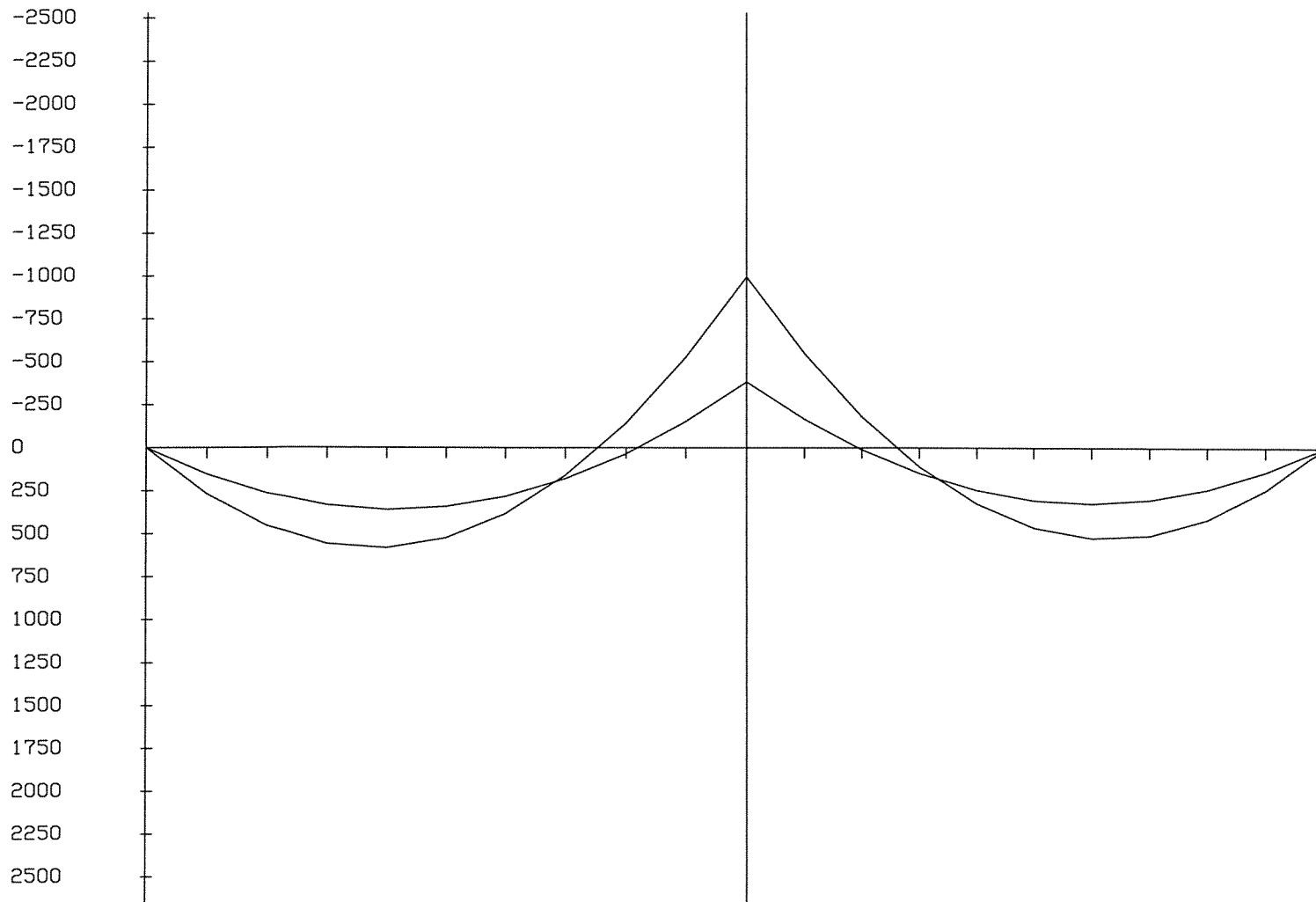
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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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DEAD LOAD MOMENTS

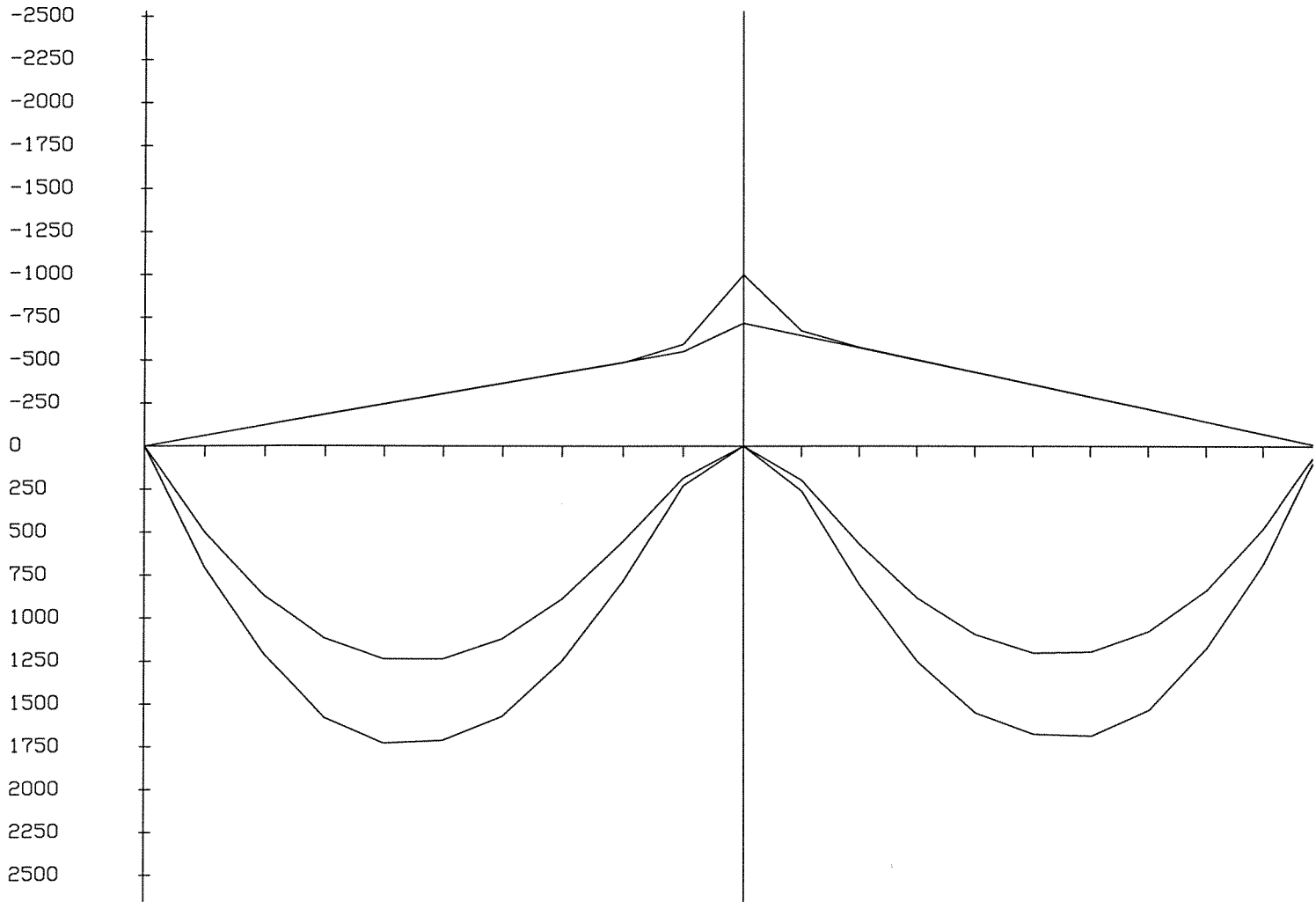
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BRIDGE MOMENTS, SHEARS AND REACTIONS - Location:B1

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LIVE LOAD + IMPACT MOMENTS