ATTACHMENT 24 – Mn/DOT BARS LOAD RATING COMPUTER PRINTOUT DATED DECEMBER 11, 1995

(63 pages)

P4=1-1-1

STRUCTURE I.D. = G65-005

error @ Pt 2.0 - Not Critical

Modified for new Jan 1st thru (1998)

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*****************************************************************************************************************
*                                          STRUCTURE HEADER AND DESCRIPTION                                     *
*****************************************************************************************************************

  100-- 2                    EA/I/O/P = X            FILE REQUESTS AND OUTPUT DATA EXCEPTIONS
                 TYPE =      SS   YEAR =   64  LEN = 1907.00 FT.       WIDTH =   52.00 FT.      14 SPANS SP.LOAD =
                 INV.LL.TRK.=       OP.LL.TRK.=


*****************************************************************************************************************
*                              STRUCTURE LOCATION AND PERMANENT IDENTIFICATION FACTORS                          *
*****************************************************************************************************************

  200-- 5    BRIDGE=  9340     DIST./CO.= 5    27  CONST. ROUTE =  TH 35W    CONST. SECT.=           CONST. STA.=   0+  .
           MICROFILM REEL NO.   DESIGN PLANS=           COMPUTATIONS=           CORRESPONDENCE=
               ROUTE I.D.=            MARKED ROUTE =


*****************************************************************************************************************
*                                                      COMMENTS                                                 *
*****************************************************************************************************************

  300-- 6    1   .17 FT WC  ARCH DECK TRUSS AND TRUSS FL BM'S NOT RATED, S01 IS 5 SPAN  See fa Line G-13,
  400-- 6    2   SO. APPR. G-13. S02 IS SPANS 9 TO 11, S03 IS VOIDED CONC. SPAN 12 TO 14,
  500-- 6    3   S02 IS G-13, S03 IS 35W. BR.9340A IS SAME AS S03. L.F.RATING
                 New Median J-rail & Sidewalk exterior rail added in 1998.
                 S04 & S05 are Truss Stringer 4 & 6 span cont. resp.

*****************************************************************************************************************
*                   MEMBER SPECIFICATIONS AND REQUIRED ANALYSIS-GIRDER,STRINGER AND FLOOR BEAM                  *
*****************************************************************************************************************

        MEMBER SPANS  STIFF. SPAN 1     SPAN 2     SPAN 3   MATL   ALLOWABLE STRESS   LL DIST.  END  THRU  MAX  IMPACT  FACTOR
         ID      SYMM CODE (SPAN 4)   (SPAN 5)   (SPAN 6)  CODE     FY   FB FC* FC**  FACTOR  FL.BM DECK  INV  OP.  POST  SPEC

  600-- 8   S 1   5    X     50.917     81.667    107.250   CSC      0.00      0.00    1.485            .00  .00  .00   .00
  700-- 8   S 1   0    X    107.250     69.583      0.000            0.00      0.00    0.000            .00  .00  .00   .00
  800-- 8   S 2   3    X    137.833     94.000     67.417   CSC  36000.00      0.00    1.485            .00  .00  .00   .00
  900-- 8   S 3   3         46.167     58.167     29.167    RC      0.00      0.00    0.271            .00  .00  .00   .00


*****************************************************************************************************************
*                          SUPERIMPOSED DEAD LOADS-GIRDERS,STRINGERS AND FLOOR BEAMS                            *
*****************************************************************************************************************

          MEMBER SYMM. SPAN   DISTANCE FR. LOAD          LOAD            LENGTH
            ID          NO.    LEFT SUPP.  TYPE  P OR W(L)     W(R)
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1000--10	S 1	1	0.000FT.	W	358.0	0.0	50.917FT.
1100--10	S 1	2	0.000FT.	W	358.0	0.0	81.667FT.
1200--10	S 1	3	0.000FT.	W	358.0	0.0	107.250FT.
1300--10	S 1	4	0.000FT.	W	358.0	0.0	107.250FT.
1400--10	S 1	5	0.000FT.	W	358.0	0.0	69.583FT.
1500--10	S 2	1	0.000FT.	W	358.0	0.0	137.833FT.
1600--10	S 2	2	0.000FT.	W	358.0	0.0	94.000FT.
1700--10	S 2	3	0.000FT.	W	358.0	0.0	67.417FT.
1800--10	S 3	1	0.000FT.	W	47.0	0.0	46.167FT.
1900--10	S 3	2	0.000FT.	W	47.0	0.0	58.167FT.
2000--10	S 3	3	0.000FT.	W	47.0	0.0	29.167FT.

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* SECTION RANGE SPECIFICATIONS *

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	MEMBER ID	SYMM.	SPAN NO.	RANGE NO.	RANGE LENGTH	SECTION NO. LEFT	SECTION NO. RIGHT	SEC. VAR.	HINGE CODE	HINGE 1 DIST.	HINGE 2 DIST.	HYBRID GIRDER CODE	FY	CODE	FY
2200--11	S 1		1	1	40.917FT.	1	0			0.000FT.	0.000FT.		0.		0.
2100--11	S 1		1	2	10.000FT.	2	0			0.000FT.	0.000FT.		0.		0.
2400--11	S 1		2	1	8.000FT.	2	0		X	70.000FT.	0.000FT.		0.		0.
2300--11	S 1		2	2	12.000FT.	1	0			0.000FT.	0.000FT.		0.		0.
2700--11	S 1		2	3	40.000FT.	3	0			0.000FT.	0.000FT.		0.		0.
2600--11	S 1		2	4	10.000FT.	1	0			0.000FT.	0.000FT.		0.		0.
2500--11	S 1		2	5	11.667FT.	4	5	SB		0.000FT.	0.000FT.		0.		0.
2800--11	S 1		3	1	10.000FT.	5	0			0.000FT.	0.000FT.		0.		0.
3000--11	S 1		3	2	86.250FT.	6	0			0.000FT.	0.000FT.		0.		0.
2900--11	S 1		3	3	11.000FT.	7	0			0.000FT.	0.000FT.		0.		0.
3200--11	S 1		4	1	11.000FT.	7	0			0.000FT.	0.000FT.		0.		0.
3100--11	S 1		4	2	86.250FT.	8	0			0.000FT.	0.000FT.		0.		0.
3300--11	S 1		4	3	10.000FT.	9	0			0.000FT.	0.000FT.		0.		0.
3400--11	S 1		5	1	14.000FT.	9	0			0.000FT.	0.000FT.		0.		0.
3500--11	S 1		5	2	55.583FT.	10	0			0.000FT.	0.000FT.		0.		0.
3600--11	S 2		1	1	112.833FT.	1	0			0.000FT.	0.000FT.	A	45000.	W	50000.
3700--11	S 2		1	2	25.000FT.	2	0			0.000FT.	0.000FT.	A	45000.	W	50000.
3800--11	S 2		2	1	8.000FT.	2	0			0.000FT.	0.000FT.	A	45000.	W	50000.
4000--11	S 2		2	2	16.000FT.	3	4	PB		0.000FT.	0.000FT.	A	45000.	W	50000.
3900--11	S 2		2	3	52.000FT.	5	0			0.000FT.	0.000FT.		0.		0.
4100--11	S 2		2	4	18.000FT.	6	0			0.000FT.	0.000FT.		0.		0.
4300--11	S 2		3	1	13.000FT.	6	0			0.000FT.	0.000FT.		0.		0.
4200--11	S 2		3	2	54.417FT.	7	0			0.000FT.	0.000FT.		0.		0.
4500--11	S 3		1	1	5.000FT.	1	0			0.000FT.	0.000FT.		0.		0.
4400--11	S 3		1	2	21.000FT.	2	0			0.000FT.	0.000FT.		0.		0.
4700--11	S 3		1	3	14.167FT.	3	0			0.000FT.	0.000FT.		0.		0.
4600--11	S 3		1	4	6.000FT.	1	0			0.000FT.	0.000FT.		0.		0.
4900--11	S 3		2	1	6.000FT.	1	0			0.000FT.	0.000FT.		0.		0.
4800--11	S 3		2	2	12.167FT.	3	0			0.000FT.	0.000FT.		0.		0.
5200--11	S 3		2	3	22.000FT.	4	0			0.000FT.	0.000FT.		0.		0.
5100--11	S 3		2	4	11.000FT.	3	0			0.000FT.	0.000FT.		0.		0.
5000--11	S 3		2	5	7.000FT.	5	0			0.000FT.	0.000FT.		0.		0.
5300--11	S 3		3	1	29.167FT.	6	0			0.000FT.	0.000FT.		0.		0.

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* SECTION PROPERTIES (STEEL OR TIMBER) - GIRDERS STRINGERS, FLOOR BEAMS *

MEMBER -- NON-DETAILED DESCRIPTION											DETAILED DESCRIPTION				
ID	SEC.	A	I	S	COMPACT	SEC.	SAME	ADR			H	I	A	IX	DY	DX
5400--12	S 1	0	0.00	0.0	0.0	1	0	32.86	1	11.50P	0.7	32.5	0.0			
5500--12	S 1	0	0.00	0.0	0.0	1	0	0.00	2	0.55P	31.4	16.4	0.0			
5600--12	S 1	0	0.00	0.0	0.0	1	0	0.00	3	11.50P	0.7	0.4	0.0			
5700--12	S 1	0	0.00	0.0	0.0	2	0	34.18	1	11.50P	1.4	33.5	0.0			
5800--12	S 1	0	0.00	0.0	0.0	2	0	0.00	2	0.55P	31.4	17.1	0.0			
5900--12	S 1	0	0.00	0.0	0.0	2	0	0.00	3	11.50P	1.4	0.7	0.0			
6000--12	S 1	0	0.00	0.0	0.0	3	0	34.54	1	11.50P	1.6	33.8	0.0			
6100--12	S 1	0	0.00	0.0	0.0	3	0	0.00	2	0.55P	31.4	17.3	0.0			
6200--12	S 1	0	0.00	0.0	0.0	3	0	0.00	3	11.50P	1.6	0.8	0.0			
6300--12	S 1	0	0.00	0.0	0.0	4	0	34.76	1	14.00P	0.9	34.3	0.0			
6400--12	S 1	0	0.00	0.0	0.0	4	0	0.00	2	0.38P	33.0	17.4	0.0			
6500--12	S 1	0	0.00	0.0	0.0	4	0	0.00	3	14.00P	0.9	0.4	0.0			
6600--12	S 1	0	0.00	0.0	0.0	5	0	49.76	1	14.00P	0.9	49.3	0.0			
6700--12	S 1	0	0.00	0.0	0.0	5	0	0.00	2	0.38P	48.0	24.9	0.0			
6800--12	S 1	0	0.00	0.0	0.0	5	0	0.00	3	14.00P	0.9	0.4	0.0			
6900--12	S 1	0	0.00	0.0	0.0	6	0	50.13	1	12.00P	0.8	49.8	0.0			
7000--12	S 1	0	0.00	0.0	0.0	6	0	0.00	2	0.38P	48.0	25.4	0.0			
7100--12	S 1	0	0.00	0.0	0.0	6	0	0.00	3	14.00P	1.4	0.7	0.0			
7200--12	S 1	0	0.00	0.0	0.0	7	0	52.50	1	14.00P	2.3	51.4	0.0			
7300--12	S 1	0	0.00	0.0	0.0	7	0	0.00	2	0.38P	48.0	26.3	0.0			
7400--12	S 1	0	0.00	0.0	0.0	7	0	0.00	3	14.00P	2.3	1.1	0.0			
7500--12	S 1	0	0.00	0.0	0.0	8	0	49.63	1	12.00P	0.8	49.3	0.0			
7600--12	S 1	0	0.00	0.0	0.0	8	0	0.00	2	0.38P	48.0	24.9	0.0			
7700--12	S 1	0	0.00	0.0	0.0	8	0	0.00	3	14.00P	0.9	0.4	0.0			
7800--12	S 1	0	0.00	0.0	0.0	9	0	50.75	1	14.00P	1.4	50.1	0.0			
7900--12	S 1	0	0.00	0.0	0.0	9	0	0.00	2	0.38P	48.0	25.4	0.0			
8000--12	S 1	0	0.00	0.0	0.0	9	0	0.00	3	14.00P	1.4	0.7	0.0			
8100--12	S 1	0	0.00	0.0	0.0	10	0	49.50	1	12.00P	0.8	49.1	0.0			
8200--12	S 1	0	0.00	0.0	0.0	10	0	0.00	2	0.38P	48.0	24.8	0.0			
8300--12	S 1	0	0.00	0.0	0.0	10	0	0.00	3	14.00P	0.8	0.4	0.0			
8400--12	S 2	0	0.00	0.0	0.0	1	0	51.25	1	16.00P	1.3	50.6	0.0			
8500--12	S 2	0	0.00	0.0	0.0	1	0	0.00	2	0.63P	48.0	25.0	0.0			
8600--12	S 2	0	0.00	0.0	0.0	1	0	0.00	3	20.00P	2.0	1.0	0.0			
8700--12	S 2	0	0.00	0.0	0.0	2	0	52.00	1	20.00P	2.0	51.0	0.0			
8800--12	S 2	0	0.00	0.0	0.0	2	0	0.00	2	0.63P	48.0	26.0	0.0			
8900--12	S 2	0	0.00	0.0	0.0	2	0	0.00	3	20.00P	2.0	1.0	0.0			
9000--12	S 2	0	0.00	0.0	0.0	3	0	52.00	1	14.00P	2.0	51.0	0.0			
9100--12	S 2	0	0.00	0.0	0.0	3	0	0.00	2	0.63P	48.0	26.0	0.0			
9200--12	S 2	0	0.00	0.0	0.0	3	0	0.00	3	14.00P	2.0	1.0	0.0			
9300--12	S 2	0	0.00	0.0	0.0	4	0	40.00	1	14.00P	2.0	39.0	0.0			
9400--12	S 2	0	0.00	0.0	0.0	4	0	0.00	2	0.63P	36.0	20.0	0.0			
9500--12	S 2	0	0.00	0.0	0.0	4	0	0.00	3	14.00P	2.0	1.0	0.0			
9600--12	S 2	0	0.00	0.0	0.0	5	0	37.75	1	12.00P	0.8	37.4	0.0			
9700--12	S 2	0	0.00	0.0	0.0	5	0	0.00	2	0.63P	36.0	19.0	0.0			
9800--12	S 2	0	0.00	0.0	0.0	5	0	0.00	3	14.00P	1.0	0.5	0.0			
9900--12	S 2	0	0.00	0.0	0.0	6	0	38.75	1	14.00P	1.4	38.1	0.0			
10000--12	S 2	0	0.00	0.0	0.0	6	0	0.00	2	0.63P	36.0	19.4	0.0			
10100--12	S 2	0	0.00	0.0	0.0	6	0	0.00	3	14.00P	1.4	0.7	0.0			
10200--12	S 2	0	0.00	0.0	0.0	7	0	38.25	1	12.00P	1.0	37.8	0.0			
10300--12	S 2	0	0.00	0.0	0.0	7	0	0.00	2	0.63P	36.0	19.3	0.0			
10400--12	S 2	0	0.00	0.0	0.0	7	0	0.00	3	14.00P	1.3	0.6	0.0			

SECTION PROPERTIES (REINFORCED CONCRETE) - GIRDERS, STRINGERS, FLOOR BEAMS

MEMBER ID	SECT. NO.	SAME AS	ADR	BFL	H	A	B	B*	T	I R	AS	D	COMP CODE
10900--13	S 3	1	0		24.00	0.00	22.00	22.00	12.00	1	6.03	2.00	
11100--13	S 3	1	0		0.00	0.00	22.00	0.00	12.00	2	2.00	22.50	X
10800--13	S 3	2	0		24.00	22.50	22.00	9.63	4.25	1	1.93	2.00	X
11200--13	S 3	2	0		0.00	0.00	22.00	0.00	4.00	2	4.39	22.50	
10700--13	S 3	3	2	R	24.00	22.50	22.00	13.50	4.25	1	1.93	2.00	X
10600--13	S 3	4	2	R	0.00	0.00	0.00	0.00	0.00	1	2.54	2.00	X
10500--13	S 3	5	1	R	0.00	0.00	0.00	0.00	0.00	1	5.07	2.00	
11000--13	S 3	6	0		24.00	0.00	22.00	22.00	12.00	1	5.07	2.00	X
11300--13	S 3	6	0		0.00	0.00	22.00	0.00	12.00	2	2.00	22.50	

SECTION PROPERTIES (COMPOSITE) - GIRDERS, STRINGERS, FLOOR BEAMS

MEMBER ID	SPAN SYMM	SPAN RANGE	RANGE LENGTH	COMP CODE	N	SECT	A SAME	R	WIDTH	THICK -NESS	FILLET WIDTH	FILLET THICK.	EFFECT. WIDTH	EFFECT. THICK.	DIST TO TOP SECT
11500--14	S 1	1	1	40.000FT.	C	0	1	0	98.00	6.25	18.00	1.00	93.00	7.75	4.20
11400--14	S 1	1	2	10.917FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11700--14	S 1	2	1	14.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11600--14	S 1	2	2	56.000FT.	C	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11800--14	S 1	2	3	11.667FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11900--14	S 1	3	1	10.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12100--14	S 1	3	2	68.250FT.	C	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12000--14	S 1	3	3	29.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12400--14	S 1	4	1	33.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12300--14	S 1	4	2	53.250FT.	C	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12200--14	S 1	4	3	21.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12500--14	S 1	5	1	14.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12600--14	S 1	5	2	55.583FT.	C	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12700--14	S 2	1	1	112.833FT.	C	0	1	0	98.00	6.25	18.00	1.00	93.00	7.75	4.20
12800--14	S 2	1	2	25.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12900--14	S 2	2	1	44.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13100--14	S 2	2	2	32.000FT.	C	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13000--14	S 2	2	3	18.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13300--14	S 2	3	1	13.000FT.	N	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13200--14	S 2	3	2	54.417FT.	C	0	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BRACING LENGTH SPECIFICATIONS - LOAD FACTOR ANALYSIS

MEMBER ID	SPAN SYMM	SPAN RANGE T/B		RANGE LENGTH	SUPPORT COND. LEFT	RIGHT	SPACES	SPACING DISTANCE	STIFF SPACING
13400--16	S 1	1 T	1	50.917FT.C			0	0.000FT.	0.000IN.
13500--16	S 1	1 B	1	50.917FT.SP		SP	3	16.972FT.	290.375IN.
13600--16	S 1	2 T	1	81.667FT.C			0	0.000FT.	0.000IN.
13700--16	S 1	2 B	1	72.000FT.SP			3	24.000FT.	288.000IN.
13800--16	S 1	2 B	2	9.667FT.SP		SP	0	0.000FT.	38.666IN.

13900--16	S 1	3	T	1	107.250FT.C		0	0.000FT.	0.000IN.
14000--16	S 1	3	B	1	107.250FT.SP	SP	5	21.450FT.	42.900IN.
14100--16	S 1	4	T	1	107.250FT.C		0	0.000FT.	0.000IN.
14200--16	S 1	4	B	1	107.250FT.SP	SP	5	21.450FT.	42.900IN.
14300--16	S 1	5	T	1	69.583FT.C		0	0.000FT.	0.000IN.
14400--16	S 1	5	B	1	69.583FT.SP	SP	3	23.194FT.	46.388IN.
14500--16	S 2	1	T	1	137.833FT.C		0	0.000FT.	0.000IN.
14600--16	S 2	1	B	1	96.000FT.SP		4	24.000FT.	48.000IN.
14700--16	S 2	1	B	2	21.833FT.SP		0	0.000FT.	43.667IN.
14800--16	S 2	1	B	3	20.000FT.SP	SP	0	0.000FT.	40.000IN.
14900--16	S 2	2	T	1	94.000FT.C		0	0.000FT.	0.000IN.
15000--16	S 2	2	B	1	94.000FT.SP	SP	4	23.500FT.	35.250IN.
15100--16	S 2	3	T	1	67.417FT.C		0	0.000FT.	0.000IN.
15200--16	S 2	3	B	1	67.417FT.SP	SP	3	22.472FT.	33.708IN.

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IFY151I VDIOS : 1020 RECORDS OF LENGTH 1200 FORMATTED ON FILE FT11F001.
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SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 1 BARS RELEASE 5.4
INVENTORY AND/OR OPERATING ANALYSIS

INPUT CODING -- STRUCTURE 9340 D/P STR. I.D.-- G65-005

DATE 12/11/95

	INVENTORY		OPERATING	
BY	LIVE LOAD	RATING	LIVE LOAD	RATING
	HS20	HS 19.77	HS20	HS 32.95

****
* SPECIAL ATTENTION *
* OF LEAD *

* ENGINEER REQUIRED *
****

STRUCTURE DESCRIPTION --

IDENTIFICATION	9340
TYPE	SS
YEAR OF CONSTR.	1964
LENGTH	1907.00 FEET
ROADWAY WIDTH	52.00 FEET
NUMBER OF SPANS	14

LOCATION --

DISTRICT	5
COUNTY	27
CONSTR. RTE.	TH 35W
CONSTR. SEC.	
CONSTR. STA.	0+ .
KEY RTE.	
MARKED RTE.	

MICROFILM REEL NUMBERS --
DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS --

.17 FT WC ARCH DECK TRUSS AND TRUSS FL BM'S NOT RATED S01 IS 5 SPAN SO. APPR. G-13. S02 IS SPANS 9 TO 11 S03 IS VOIDED CONC. SPAN 12 TO 14 S02 IS G-13, S03 IS 35W BR 9340A IS SAME AS S03. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID. S 1

SPAN 4

CRITICAL C.P. DIST. 53.6 FEET

LIVE LOAD DESIGNATION HS20

OPERATING RATING SUMMARY --

MEMBER ID. S 1

SPAN 4

CRITICAL C.P. DIST. 53.6 FEET

	MOMENT (FT. KIPS)
MEMBER CAPACITY	1329.7
DL EFFECT	489.6
CAPACITY FOR (LL+I)	962.4
ACTUAL (LL+I)	973.6
INVENTORY RATING	HS 19.77

LIVE LOAD DESIGNATION HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	2216.2
DL EFFECT	489.6
CAPACITY FOR (LL+I)	1604.0
ACTUAL (LL+I)	973.6
OPERATING RATING	HS 32.95

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 2 BARS RELEASE 5.4
INVENTORY AND/OR OPERATING ANALYSIS

INPUT CODING -- STRUCTURE 9340 D/P STR. I.D.-- G65-005

DATE 12/11/95

BY

INVENTORY		OPERATING	
LIVE LOAD	RATING	LIVE LOAD	RATING
HS20	HS 27.32	HS20	HS 45.53

****
* SPECIAL ATTENTION *
* OF LEAD *

* ENGINEER REQUIRED *
****

STRUCTURE DESCRIPTION --
IDENTIFICATION 9340
TYPE SS
YEAR OF CONSTR. 1964
LENGTH 1907.00 FEET
ROADWAY WIDTH 52.00 FEET
NUMBER OF SPANS 14

LOCATION --
DISTRICT 5
COUNTY 27
CONSTR. RTE. TH 35W
CONSTR. SEC.
CONSTR. STA. 0+ .
KEY RTE.
MARKED RTE.

MICROFILM REEL NUMBERS --
DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS --

.17 FT WC ARCH DECK TRUSS AND TRUSS FL BM'S NOT RATED S01 IS 5 SPAN
SO. APPR. G-13. S02 IS SPANS 9 TO 11 S03 IS VOIDED CONC. SPAN 12 TO 14
S02 IS G-13, S03 IS 35W BR 9340A IS SAME AS S03. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID. S 2

SPAN 3

CRITICAL C.P. DIST. 40.4 FEET

LIVE LOAD DESIGNATION HS20

OPERATING RATING SUMMARY --

MEMBER ID. S 2

SPAN 3

CRITICAL C.P. DIST. 40.4 FEET

	MOMENT (FT. KIPS)
MEMBER CAPACITY	1408.0
DL EFFECT	470.3
CAPACITY FOR (LL+I)	1035.6
ACTUAL (LL+I)	758.2
INVENTORY RATING	HS 27.32

LIVE LOAD DESIGNATION HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	2346.7
DL EFFECT	470.3
CAPACITY FOR (LL+I)	1726.0
ACTUAL (LL+I)	758.2
OPERATING RATING	HS 45.53

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 3 BARS RELEASE 5.4
INVENTORY AND/OR OPERATING ANALYSIS

INPUT CODING -- STRUCTURE 9340 D/P STR. I.D.-- G65-005

DATE 12/11/95

BY	INVENTORY LIVE LOAD	INVENTORY RATING	OPERATING LIVE LOAD	OPERATING RATING
	HS20	HS 20.17	HS20	HS 33.61

****
* SPECIAL ATTENTION *
* OF LEAD *

* ENGINEER REQUIRED *
****

STRUCTURE DESCRIPTION --

IDENTIFICATION	9340
TYPE	SS
YEAR OF CONSTR.	1964
LENGTH	1907.00 FEET
ROADWAY WIDTH	52.00 FEET
NUMBER OF SPANS	14

LOCATION --

DISTRICT	5
COUNTY	27
CONSTR. RTE.	TH 35W
CONSTR. SEC.	
CONSTR. STA.	0+ .
KEY RTE.	
MARKED RTE.	

MICROFILM REEL NUMBERS --
DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS --

.17 FT WC ARCH DECK TRUSS AND TRUSS FL BM'S NOT RATED S01 IS 5 SPAN SO. APPR. G-13. S02 IS SPANS 9 TO 11 S03 IS VOIDED CONC. SPAN 12 TO 14 S02 IS G-13, S03 IS 35W BR 9340A IS SAME AS S03. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID.	S 3
SPAN	3
CRITICAL C.P. DIST.	0.0 FEET
LIVE LOAD DESIGNATION	HS20

OPERATING RATING SUMMARY --

MEMBER ID.	S 3
SPAN	3
CRITICAL C.P. DIST.	0.0 FEET

	MOMENT (FT. KIPS)
MEMBER CAPACITY	-314.0
DL EFFECT	-102.5
CAPACITY FOR (LL+I)	-83.4
ACTUAL (LL+I)	-82.7
INVENTORY RATING	HS 20.17

LIVE LOAD DESIGNATION HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	-314.0
DL EFFECT	-102.5
CAPACITY FOR (LL+I)	-139.0
ACTUAL (LL+I)	-82.7
OPERATING RATING	HS 33.61

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 1.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	15678.6	0.0	742.6	0.0	999.0000	999.0000	999.0000	999.0000		
OPER.	HS20	26130.9	973.1	1237.6	1037.1	999.0000	999.0000	999.0000	999.0000		

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	19363.0	604.4	917.1	604.4	999.0000	999.0000	999.0000	999.0000		
OPER.	HS20	32271.7	1007.3	1528.5	1007.3	999.0000	999.0000	999.0000	999.0000		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	154.82	154.82	2.8502	2.8502	HS 57.0	102.6
OPER.	HS20	258.04	258.04	4.7503	4.7503	HS 95.0	171.0

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 1.40

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 1 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
32.86	0.55	59.75	31.38	57.05	5.47	5.47	7.40	7.40	CONT	16.97	3.32	3.32	0.00	61.35	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	3.90	0.0	8.51	8.51	17.26

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	-- SECTION PROPERTIES -- IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	-------- SECTION MODULUS -------- TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	---- PLASTIC SECTION MODULUS ---- TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	34.28	34.28	34.28	5806.9	5806.9	16.43	353.4	353.4	353.4	353.4	408.74	408.74	408.74	408.74
COM(N=N)				16825.9	0.0	31.37	11323.4	1878.9	536.3	489.9				
COM(N=3N)				12769.9	0.0	26.06	1878.9	1878.9	489.9	489.9				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X				X	0.8695	X	

***** SECTION CAPACITY *****

+BEND	ML =	0.00 FT-KIPS,	MR =	0.00 FT-KIPS,	M1/M2 =	0.0
-BEND	ML =	43.96 FT-KIPS,	MR =	-234.73 FT-KIPS,	M1/M2 =	0.2

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	15678.55	489.37	742.57	489.37	0.00	408.74	10969.97	15678.55	360.37	360.37
OPER.	26130.92	815.61	1237.61	815.61	0.00	408.74	10969.97	26130.92	360.37	360.37

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
94.85	60.90	94.85	60.90	-3.22	-0.66

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 1.40

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.284 FOR +BEND AND = 0.242 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	526.1	409.6	6.367	L	362.2	282.0	20.367	0.000	7.02	7.07		
		-BEND	138.20	138.2	111.3	95.253	R	103.5	83.3	75.417	0.000	6.79	6.79		
														25.10	25.10
OPER.	HS20	+BEND	0.00	526.1	409.6	6.367	L	362.2	282.0	20.367	0.000	7.02	7.07		
		-BEND	138.20	138.2	111.3	95.253	R	103.5	83.3	75.417	0.000	6.79	6.79		
														25.10	25.10

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	2.730	-1.553	0.117	-0.040	0.005	0.000
N 2	5.476	-2.127	0.179	-0.068	0.007	0.000
T 3	8.257	-2.205	0.213	-0.077	0.009	0.000
H 4	11.090	-2.102	0.221	-0.073	0.009	0.000
5	8.900	-1.854	0.210	-0.065	0.009	0.000
P 6	6.796	-1.492	0.183	-0.053	0.008	0.000
O 7	4.795	-1.048	0.145	-0.039	0.006	0.000
I 8	2.920	-0.548	0.099	-0.024	0.004	0.000
N 9	1.329	-0.163	0.048	-0.010	0.002	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	266.3	0.0	15.2	0.0	0.4	0.0	281.8
NEG AREA	0.0	106.9	0.0	4.8	0.0	0.0	111.7

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 1.40

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	13635.0	582.8	616.2	582.8	25.9191	4.2173	1.1714	4.2173	HS 23.4	42.2
OPER.	HS20	22725.0	971.4	1027.0	971.4	43.1984	7.0288	1.9523	7.0288	HS 39.0	70.3

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	17319.5	697.8	790.7	697.8	32.9229	5.0494	1.5031	5.0494		
OPER.	HS20	28865.8	1163.0	1317.9	1163.0	54.8716	8.4157	2.5052	8.4157		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	168.65	168.65	6.7190	6.7190		
OPER.	HS20	281.08	281.08	11.1983	11.1983		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 2.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 2 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
34.18	0.55	62.15	31.38	57.05	5.48	5.48	3.91	3.91	CONT	24.00	3.32	3.32	0.00	86.75	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	5.63	0.0	16.10	16.10	17.26

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	49.46	49.46	49.46	10071.4	10071.4	17.09	589.3	589.3	589.3	589.3	663.15	663.15	663.15	663.15
COM(N=N)				10071.4	0.0	17.09	589.3	589.3	589.3	589.3				
COM(N=3N)				10071.4	0.0	17.09	589.3	589.3	589.3	589.3				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	2055/(SQRT Fy) BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	2200/(SQRT Fy) BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X				X	0.7390	X	

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0
-BEND ML = -880.19 FT-KIPS, MR = 196.75 FT-KIPS, M1/M2 = 4.5

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	815.98	815.98	815.98	723.59	0.00	663.15	0.00	815.98	360.37	360.37
OPER.	1359.96	1359.96	1359.96	1205.98	0.00	663.15	0.00	1359.96	360.37	360.37

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-366.48	-126.19	-366.48	-126.19	33.76	14.37

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 2.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.215 FOR +BEND AND = 0.261 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	34.6	28.4	192.759	R	31.8	26.1	175.483	0.000	16.65	0.49		
		-BEND	387.52	350.9	278.2	95.253	R	387.5	307.2	75.417	30.550	17.28	17.28		
														62.99	62.99
OPER.	HS20	+BEND	0.00	34.6	28.4	192.759	R	31.8	26.1	175.483	0.000	16.65	0.49		
		-BEND	387.52	350.9	278.2	95.253	R	387.5	307.2	75.417	30.550	17.28	17.28		
														62.99	62.99

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	-0.814	-3.883	0.292	-0.099	0.011	0.000
N 2	-1.584	-5.317	0.448	-0.169	0.018	0.000
T 3	-2.269	-5.512	0.531	-0.193	0.022	0.000
H 4	-2.825	-5.256	0.553	-0.183	0.023	0.000
5	-3.208	-4.636	0.525	-0.162	0.022	0.000
P 6	-3.377	-3.730	0.458	-0.133	0.020	0.000
O 7	-3.287	-2.620	0.363	-0.098	0.016	0.000
I 8	-2.883	-1.370	0.248	-0.061	0.011	0.000
N 9	-1.769	-0.408	0.119	-0.026	0.006	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.0	0.0	37.9	0.0	1.0	0.0	39.0
NEG AREA	112.1	267.3	0.0	12.0	0.0	0.0	391.5

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 2.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1111.6	520.4	1111.6	428.0	32.1654	1.3428	32.1654	1.1044	HS 22.1	39.8
OPER.	HS20	1852.6	867.3	1852.6	713.3	53.6090	2.2381	53.6090	1.8407	HS 36.8	66.3

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1303.3	712.1	1303.3	712.1	37.7141	1.8377	37.7141	1.8377		
OPER.	HS20	2172.2	1186.9	2172.2	1186.9	62.8568	3.0628	62.8569	3.0628		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	137.44	137.44	2.1818	2.1818		
OPER.	HS20	229.07	229.07	3.6364	3.6364		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 2.50

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 2 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
34.54	0.55	62.80	31.38	57.05	5.48	5.48	3.47	3.47	CONT	24.00	3.32	3.32	0.00	86.75	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	6.10	0.0	18.17	18.17	17.26

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	53.60	53.60	53.60	11293.4	11293.4	17.27	653.9	653.9	653.9	653.9	734.28	734.28	734.28	734.28
COM(N=N)				27235.3	0.0	30.73	7151.1	2125.0	886.2	813.3				
COM(N=3N)				20315.9	0.0	24.98	2125.0	2125.0	813.3	813.3				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X			X		0.7390	X	

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = 196.75 FT-KIPS, MR = 405.01 FT-KIPS, M1/M2 = 0.5

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	9901.52	905.44	1227.10	905.44	0.00	734.28	6497.16	9901.52	360.37	360.37
OPER.	16502.53	1509.07	2045.16	1509.07	0.00	734.28	6497.16	16502.53	360.37	360.37

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
338.90	162.31	338.90	162.31	0.39	-0.24

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 2.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.256 FOR +BEND AND = 0.256 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD	TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20 +BEND	0.00	773.2	615.4	105.750	R	560.9	446.4	91.750	0.000	2.83	22.63		
	-BEND	82.49	82.5	65.7	11.459	L	55.3	44.0	30.550	0.000	2.83	2.83	26.31	26.31
OPER.	HS20 +BEND	0.00	773.2	615.4	105.750	R	560.9	446.4	91.750	0.000	2.83	22.63		
	-BEND	82.49	82.5	65.7	11.459	L	55.3	44.0	30.550	0.000	2.83	2.83	26.31	26.31

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	-0.339	1.785	0.122	-0.041	0.005	0.000
N 2	-0.660	4.590	0.187	-0.071	0.008	0.000
T 3	-0.945	7.912	0.221	-0.080	0.009	0.000
H 4	-1.177	11.421	0.230	-0.076	0.010	0.000
5	-1.337	15.082	0.219	-0.068	0.009	0.000
P 6	-1.407	10.696	0.191	-0.055	0.008	0.000
O 7	-1.370	6.394	0.151	-0.041	0.007	0.000
I 8	-1.201	2.151	0.103	-0.025	0.005	0.000
N 9	-0.737	-0.170	0.050	-0.011	0.002	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.0	489.6	15.8	0.0	0.4	0.0	505.8
NEG AREA	46.7	0.7	0.0	5.0	0.0	0.0	52.5

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 2.50

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	7350.2	1206.2	845.4	1206.2	9.5056	14.6227	1.0933	14.6227	HS 21.9	39.4
OPER.	HS20	12250.3	2010.3	1409.0	2010.3	15.8426	24.3712	1.8222	24.3712	HS 36.4	65.6

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	9677.0	1418.9	1133.8	1418.9	12.5148	17.2023	1.4662	17.2023		
OPER.	HS20	16128.4	2364.9	1889.6	2364.9	20.8580	28.6705	2.4437	28.6705		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	166.24	166.24	6.3251	6.3251		
OPER.	HS20	277.06	277.06	10.5418	10.5418		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 3.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 3 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
49.76	0.38	132.69	48.00	128.00	6.81	6.81	7.74	7.74	CONT	21.45	4.04	4.04	0.00	63.69	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	4.85	0.0	12.32	12.32	18.00

-- SECTION PROPERTIES -- / -------- SECTION MODULUS -------- / ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	42.64	42.64	42.64	18175.4	18175.4	24.88	730.5	730.5	730.5	730.5	818.20	818.20	818.20	818.20
COM(N=N)				18175.4	0.0	24.88	730.5	730.5	730.5	730.5				
COM(N=3N)				18175.4	0.0	24.88	730.5	730.5	730.5	730.5				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X				X	0.8653	X	

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = -1058.52 FT-KIPS, MR = -43.66 FT-KIPS, M1/M2 = 24.2

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- / -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- / -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	1011.49	1011.49	1011.49	1011.49	0.00	818.20	0.00	1011.49	353.26	353.26
OPER.	1685.82	1685.82	1685.82	1685.82	0.00	818.20	0.00	1685.82	353.26	353.26

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

M (DL)	M (SDL)	-- DEAD LOAD -- REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-328.99	-146.10	-328.99	-146.10	36.62	16.95

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 3.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.284 FOR +BEND AND = 0.228 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	33.7	26.3	11.459	L	22.4	17.5	30.550	0.000	6.77	0.37		
		-BEND	583.42	583.4	475.2	88.250	L	430.6	350.7	116.250	175.483	6.47	6.47		
														62.39	62.39
OPER.	HS20	+BEND	0.00	33.7	26.3	11.459	L	22.4	17.5	30.550	0.000	6.77	0.37		
		-BEND	583.42	583.4	475.2	88.250	L	430.6	350.7	116.250	175.483	6.47	6.47		
														62.39	62.39

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.136	-0.714	-0.049	0.017	-0.002	0.000
N 2	0.264	-1.836	-0.075	0.028	-0.003	0.000
T 3	0.378	-3.165	-0.089	0.032	-0.004	0.000
H 4	0.471	-4.568	-0.092	0.031	-0.004	0.000
5	0.535	-6.033	-0.087	0.027	-0.004	0.000
P 6	0.563	-7.545	-0.076	0.022	-0.003	0.000
O 7	0.548	-9.091	-0.061	0.016	-0.003	0.000
I 8	0.481	-10.661	-0.041	0.010	-0.002	0.000
N 9	0.295	-8.099	-0.020	0.004	-0.001	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	18.7	0.0	0.0	2.0	0.0	0.0	20.7
NEG AREA	0.0	422.3	6.3	0.0	0.2	0.0	428.8

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 3.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1296.5	726.4	1296.5	726.4	38.4449	1.2451	38.4450	1.2451	HS 24.9	44.8
OPER.	HS20	2160.9	1210.7	2160.9	1210.7	64.0748	2.0752	64.0749	2.0752	HS 41.5	74.7

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1534.2	964.1	1534.2	964.1	45.4931	1.6525	45.4932	1.6525		
OPER.	HS20	2557.1	1606.9	2557.1	1606.9	75.8219	2.7542	75.8220	2.7542		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	130.90	130.90	2.0982	2.0982		
OPER.	HS20	218.17	218.17	3.4971	3.4971		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 3.50

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 3 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
50.13	0.38	133.67	48.00	128.00	5.81	6.81	7.75	4.95	CONT	21.45	3.46	4.04	0.00	63.69	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	5.27	0.0	9.00	19.25	18.00

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	46.25	46.25	46.25	19124.0	19124.0	19.84	631.5	631.5	963.8	963.8	865.39	865.39	865.39	865.39
COM(N=N)				55913.2	0.0	42.63	7458.1	2449.5	1311.7	1224.6				
COM(N=3N)				40924.4	0.0	33.42	2449.5	2449.5	1224.6	1224.6				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000		X
-BEND		X				X	0.8337		X

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = 377.09 FT-KIPS, MR = 170.13 FT-KIPS, M1/M2 = 2.2

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	10326.60	874.42	1816.13	1334.46	0.00	963.78	6826.58	10326.60	353.26	353.26
OPER.	17211.01	1457.36	3026.89	2224.11	0.00	963.78	6826.58	17211.01	353.26	353.26

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
469.05	248.14	469.05	248.14	-6.94	-2.25

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 3.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.215 FOR +BEND AND = 0.215 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD	TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20 +BEND	0.00	1246.2	1025.4	200.208	R	1055.5	868.5	186.208	0.000	0.18	26.87		
	-BEND	358.62	299.1	246.1	296.732	R	358.6	295.1	272.008	0.000	0.18	0.18	32.63	32.63
OPER.	HS20 +BEND	0.00	1246.2	1025.4	200.208	R	1055.5	868.5	186.208	0.000	0.18	26.87		
	-BEND	358.62	299.1	246.1	296.732	R	358.6	295.1	272.008	0.000	0.18	0.18	32.63	32.63

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.055	-0.289	4.347	-2.522	0.287	0.000
N 2	0.107	-0.744	8.762	-4.303	0.465	0.000
T 3	0.153	-1.282	13.275	-4.904	0.553	0.000
H 4	0.191	-1.850	17.931	-4.666	0.582	0.000
5	0.217	-2.444	22.776	-4.123	0.562	0.000
P 6	0.228	-3.056	17.130	-3.369	0.499	0.000
O 7	0.222	-3.682	11.763	-2.482	0.404	0.000
I 8	0.195	-4.318	6.903	-1.541	0.283	0.000
N 9	0.119	-3.280	3.097	-0.654	0.146	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	7.6	0.0	1136.7	0.0	26.3	0.0	1170.5
NEG AREA	0.0	171.1	0.0	306.4	0.0	0.0	477.4

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 3.50

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	111111.0	1304.7	1273.7	1764.8	4.1460	3.6382	1.0220	4.9210	HS 20.4	36.8
OPER.	HS20	111111.0	2174.5	2122.8	2941.3	6.9099	6.0637	1.7034	8.2017	HS 34.1	61.3

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	8976.5	1510.2	1700.5	2078.4	7.2030	4.2112	1.3645	5.7955		
OPER.	HS20	14960.8	2517.0	2834.1	3464.0	12.0051	7.0187	2.2742	9.6592		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	168.55	168.55	4.8275	4.8275		
OPER.	HS20	280.92	280.92	8.0458	8.0458		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 4.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 4 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
52.50	0.38	140.00	48.00	128.00	6.81	6.81	3.03	3.03	CONT	21.45	4.04	4.04	0.00	63.69	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	0.00	0.5	31.50	31.50	18.00

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	81.00	81.00	81.00	43268.1	43268.1	26.25	1648.3	1648.3	1648.3	1648.3	1799.19	1799.19	1799.19	1799.19
COM(N=N)				43268.1	0.0	26.25	1648.3	1648.3	1648.3	1648.3				
COM(N=3N)				43268.1	0.0	26.25	1648.3	1648.3	1648.3	1648.3				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X			X		0.8337	X	

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0
-BEND ML = -2479.12 FT-KIPS, MR = -684.98 FT-KIPS, M1/M2 = 3.6

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	2282.27	2282.27	2282.27	2282.27	0.00	1799.19	0.00	2282.27	353.26	353.26
OPER.	3803.78	3803.78	3803.79	3803.79	0.00	1799.19	0.00	3803.79	353.26	353.26

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-1084.71	-387.10	-1084.71	-387.10	48.44	20.58

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 4.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.242 FOR +BEND AND = 0.215 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD	TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20 +BEND	0.00	112.1	90.2	88.250	L	113.2	91.1	116.250	0.000	1.45	0.28		
	-BEND	1007.	600.2	493.9	296.735	R	1007.3	828.9	272.008	207.658	1.42	1.42		
													60.67	60.67
OPER.	HS20 +BEND	0.00	112.1	90.2	88.250	L	113.2	91.1	116.250	0.000	1.45	0.28		
	-BEND	1007.	600.2	493.9	296.735	R	1007.3	828.9	272.008	207.658	1.42	1.42		
													60.67	60.67

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	-0.026	0.136	-1.983	-5.061	0.576	0.000
N 2	-0.050	0.349	-3.851	-8.634	0.932	0.000
T 3	-0.072	0.601	-5.536	-9.840	1.109	0.000
H 4	-0.089	0.867	-6.945	-9.362	1.168	0.000
5	-0.102	1.146	-7.985	-8.274	1.127	0.000
P 6	-0.107	1.433	-8.564	-6.761	1.002	0.000
O 7	-0.104	1.726	-8.588	-4.981	0.810	0.000
I 8	-0.091	2.024	-7.604	-3.092	0.568	0.000
N 9	-0.056	1.538	-4.512	-1.313	0.292	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.0	80.2	0.0	0.0	52.8	0.0	133.0
NEG AREA	3.5	0.0	596.0	614.7	0.0	0.0	1214.3

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 4.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	3165.4	1399.2	3165.4	1399.2	27.9711	1.3890	27.9711	1.3890	HS 27.8	50.0
OPER.	HS20	5275.6	2332.0	5275.6	2332.0	46.6186	2.3150	46.6186	2.3150	HS 46.3	83.3

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	3701.7	1935.5	3701.7	1935.5	32.7105	1.9215	32.7106	1.9215		
OPER.	HS20	6169.5	3225.9	6169.5	3225.9	54.5176	3.2024	54.5176	3.2024		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	121.63	121.63	2.0047	2.0047		
OPER.	HS20	202.71	202.71	3.3411	3.3411		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 4.50

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 4 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
49.63	0.38	132.33	48.00	128.00	5.81	6.81	7.75	7.79	CONT	21.45	3.46	4.04	0.00	63.69	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	4.47	0.0	9.00	12.25	18.00

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	SECTION MODULUS TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	PLASTIC SECTION MODULUS TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	39.25	39.25	39.25	15957.3	15957.3	22.84	595.7	595.7	698.7	698.7	729.67	729.67	729.67	729.67
COM(N=N)				42661.1	0.0	44.42	8198.6	2429.3	960.4	894.6				
COM(N=3N)				32445.1	0.0	36.27	2429.3	2429.3	894.6	894.6				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000		X
-BEND		X				X	0.8337		X

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0
-BEND ML = 99.52 FT-KIPS, MR = 302.76 FT-KIPS, M1/M2 = 0.3

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	11351.86	824.80	1329.74	967.50	0.00	729.67	7602.88	11351.86	353.26	353.26
OPER.	18919.77	1374.67	2216.24	1612.50	0.00	729.67	7602.88	18919.77	353.26	353.26

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
287.76	201.85	287.76	201.85	4.16	1.38

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 4.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.215 FOR +BEND AND = 0.215 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	973.6	801.1	279.458	L	799.8	658.2	293.458	0.000	1.42	6.97		
		-BEND	216.22	190.1	156.4	179.658	L	216.2	177.9	207.658	0.000	1.42	1.42		
														27.17	27.17
OPER.	HS20	+BEND	0.00	973.6	801.1	279.458	L	799.8	658.2	293.458	0.000	1.42	6.97		
		-BEND	216.22	190.1	156.4	179.658	L	216.2	177.9	207.658	0.000	1.42	1.42		
														27.17	27.17

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	-0.009	0.047	-0.694	1.991	-0.842	0.000
N 2	-0.018	0.122	-1.348	4.615	-1.364	0.000
T 3	-0.025	0.210	-1.937	8.419	-1.624	0.000
H 4	-0.031	0.304	-2.430	13.237	-1.710	0.000
5	-0.036	0.401	-2.794	18.539	-1.649	0.000
P 6	-0.037	0.501	-2.996	13.597	-1.466	0.000
O 7	-0.036	0.604	-3.005	9.144	-1.185	0.000
I 8	-0.032	0.708	-2.660	5.191	-0.831	0.000
N 9	-0.020	0.538	-1.579	1.985	-0.428	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.0	28.1	0.0	822.8	0.0	0.0	850.8
NEG AREA	1.2	0.0	208.5	0.0	77.2	0.0	287.0

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 4.50

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	8566.8	1118.6	962.4	1261.3	8.7991	5.1733	0.9885	5.8333	HS 19.8	35.6
OPER.	HS20	14278.0	1864.3	1604.0	2102.1	14.6652	8.6222	1.6475	9.7221	HS 33.0	59.3

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	11234.5	1312.4	1274.9	1488.6	11.5391	6.0697	1.3095	6.8848		
OPER.	HS20	18724.2	2187.3	2124.8	2481.0	19.2319	10.1162	2.1825	11.4746		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	159.72	159.72	5.8789	5.8789		
OPER.	HS20	266.20	266.20	9.7982	9.7982		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

D/P STRUCTURE I.D. = G65-005

DATE 12/11/95

MEMBER I.D. -- S 1

C.P. LOCATION - 5.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 5 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	- B' (IN) - BOT	- B'/t - TOP	- B'/t - BOT	Lb (FT) TOP	Lb (FT) BOT	Ry (IN) TOP	Ry (IN) BOT	- Lb / Ry TOP	- Lb / Ry BOT	HYBRID RATIO, R +BEND	HYBRID RATIO, R -BEND
50.75	0.38	135.33	48.00	128.00	6.81	6.81	4.95	4.95	CONT	23.19	4.04	4.04	0.00	68.87	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	6.43	0.0	19.25	19.25	18.00

-- SECTION PROPERTIES -- / -------- SECTION MODULUS -------- / ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	56.50	56.50	56.50	26927.7	26927.7	25.37	1061.2	1061.2	1061.2	1061.2	1166.49	1166.49	1166.49	1166.49
COM(N=N)				26927.7	0.0	25.37	1061.2	1061.2	1061.2	1061.2				
COM(N=3N)				26927.7	0.0	25.37	1061.2	1061.2	1061.2	1061.2				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	2055/(SQRT Fy) BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	2200/(SQRT Fy) BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X				X	0.8425	X	

***** SECTION CAPACITY *****

+BEND	ML =	0.00 FT-KIPS,	MR =	0.00 FT-KIPS,	M1/M2 = 0.0
-BEND	ML =	-1592.56 FT-KIPS,	MR =	-340.12 FT-KIPS,	M1/M2 = 4.7

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- / -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- / -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	1469.34	1469.34	1469.34	1469.34	0.00	1166.49	0.00	1469.34	346.28	346.28
OPER.	2448.90	2448.90	2448.90	2448.90	0.00	1166.49	0.00	2448.90	346.28	346.28

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-627.83	-238.67	-627.83	-238.67	37.21	15.89

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 5.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.215 FOR +BEND AND = 0.234 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	163.1	134.2	179.658	L	146.9	120.8	207.658	0.000	10.82	2.34		
		-BEND	726.06	573.2	464.4	290.181	L	726.1	588.2	304.183	374.917	10.99	10.99		
														58.25	60.25
OPER.	HS20	+BEND	0.00	163.1	134.2	179.658	L	146.9	120.8	207.658	0.000	10.82	2.34		
		-BEND	726.06	573.2	464.4	290.181	L	726.1	588.2	304.183	374.917	10.99	10.99		
														58.25	60.25

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.008	-0.041	0.595	-1.682	-2.260	0.000
N 2	0.015	-0.105	1.156	-3.587	-3.660	0.000
T 3	0.022	-0.180	1.662	-5.497	-4.357	0.000
H 4	0.027	-0.260	2.085	-7.065	-4.588	0.000
5	0.030	-0.344	2.397	-8.272	-4.426	0.000
P 6	0.032	-0.430	2.571	-8.946	-3.935	0.000
O 7	0.031	-0.518	2.579	-8.907	-3.181	0.000
I 8	0.027	-0.608	2.283	-7.975	-2.230	0.000
N 9	0.017	-0.462	1.355	-5.443	-1.148	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	1.1	0.0	178.9	0.0	0.0	0.0	180.0
NEG AREA	0.0	24.1	0.0	615.3	207.2	0.0	846.7

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 1

C.P. LOCATION -- 5.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1989.2	949.4	1989.2	949.4	12.1969	1.3077	12.1969	1.3077	HS 26.2	47.1
OPER.	HS20	3315.4	1582.4	3315.4	1582.4	20.3281	2.1794	20.3282	2.1794	HS 43.6	78.5

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	2334.5	1294.7	2334.5	1294.7	14.3140	1.7832	14.3140	1.7832		
OPER.	HS20	3890.9	2157.9	3890.9	2157.9	23.8567	2.9721	23.8568	2.9721		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	127.96	127.96	2.1239	2.1239		
OPER.	HS20	213.27	213.27	3.5398	3.5398		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 5.60

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 5 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
49.50	0.38	132.00	48.00	128.00	5.81	6.81	7.75	9.08	CONT	23.19	3.46	4.04	0.00	68.87	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	4.27	0.0	9.00	10.50	18.00

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	37.50	37.50	37.50	15007.0	15007.0	23.77	583.4	583.4	631.2	631.2	690.21	690.21	690.21	690.21
COM(N=N)				39169.8	0.0	44.90	8524.4	2423.3	872.3	811.5				
COM(N=3N)				30091.0	0.0	37.08	2423.3	2423.3	811.5	811.5				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000		X
-BEND		X				X	0.8056		X

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = -340.12 FT-KIPS, MR = 134.15 FT-KIPS, M1/M2 = 2.5

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	11803.01	780.85	1207.77	844.90	0.00	690.21	7941.04	11803.01	346.28	346.28
OPER.	19671.69	1301.42	2012.95	1408.16	0.00	690.21	7941.04	19671.69	346.28	346.28

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
207.81	112.54	207.81	112.54	3.45	0.94

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 5.60

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.257 FOR +BEND AND = 0.215 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	783.8	623.6	402.833	R	594.5	473.0	388.833	0.000	8.39	24.45		
		-BEND	225.74	225.7	185.7	290.181	L	207.8	171.0	304.183	0.000	8.11	8.11	54.64	54.65
OPER.	HS20	+BEND	0.00	783.8	623.6	402.833	R	594.5	473.0	388.833	0.000	8.39	24.45		
		-BEND	225.74	225.7	185.7	290.181	L	207.8	171.0	304.183	0.000	8.11	8.11	54.64	54.65

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.003	-0.016	0.238	-0.673	1.879	0.000
N 2	0.006	-0.042	0.463	-1.435	4.102	0.000
T 3	0.009	-0.072	0.665	-2.199	6.607	0.000
H 4	0.011	-0.104	0.834	-2.826	9.298	0.000
5	0.012	-0.138	0.959	-3.309	12.146	0.000
P 6	0.013	-0.172	1.028	-3.578	15.126	0.000
O 7	0.012	-0.207	1.031	-3.563	11.253	0.000
I 8	0.011	-0.243	0.913	-3.190	7.458	0.000
N 9	0.007	-0.185	0.542	-2.177	3.716	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.4	0.0	71.6	0.0	498.1	0.0	570.1
NEG AREA	0.0	9.6	0.0	246.1	0.0	0.0	255.8

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 5.60

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	9743.5	973.1	962.9	1037.1	12.4308	4.3106	1.2284	4.5943	HS 24.6	44.2
OPER.	HS20	16239.2	1621.8	1604.8	1728.5	20.7180	7.1844	2.0474	7.6572	HS 40.9	73.7

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	12517.2	1189.8	1246.7	1271.6	15.9695	5.2706	1.5906	5.6330		
OPER.	HS20	20862.0	1982.9	2077.9	2119.3	26.6159	8.7843	2.6509	9.3884		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR			
		LEFT	RIGHT	LEFT	RIGHT	RATING VALUE	SAFE LOAD
INV.	HS20	157.19	157.19	2.9725	2.9725		
OPER.	HS20	261.98	261.98	4.9542	4.9542		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 1.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	12391.4	1621.8	4419.4	1728.5	999.0000	999.0000	999.0000	999.0000		
OPER.	HS20	20652.4	1077.8	7365.6	1250.6	999.0000	999.0000	999.0000	999.0000		

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	15303.4	2708.0	5457.9	4239.6	999.0000	999.0000	999.0000	999.0000		
OPER.	HS20	25505.7	4513.4	9096.6	7066.0	999.0000	999.0000	999.0000	999.0000		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	355.97	355.97	5.9865	5.9865	HS119.7	215.5
OPER.	HS20	593.29	593.29	9.9775	9.9775	HS199.5	359.2

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION - 1.40

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 1 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	B' (IN) - TOP	B' (IN) - BOT	B'/t - TOP	B'/t - BOT	Lb (FT) TOP	Lb (FT) BOT	Ry (IN) TOP	Ry (IN) BOT	Lb / Ry TOP	Lb / Ry BOT	HYBRID RATIO, R +BEND	HYBRID RATIO, R -BEND
51.25	0.63	82.00	48.00	76.80	7.69	9.69	6.15	4.84	CONT	24.00	4.62	5.77	0.00	49.88	0.9971	0.9958

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	0.00	1.2	20.00	40.00	30.00

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	-- SECTION PROPERTIES -- IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	-------- SECTION MODULUS -------- TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	---- PLASTIC SECTION MODULUS ---- TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	90.00	90.00	90.00	39723.7	39723.7	20.03	1272.3	1272.3	1983.4	1983.4	1755.35	1755.35	1755.35	1755.35
COM(N=N)				96667.0	0.0	37.75	7159.5	3046.9	2560.8	2358.1				
COM(N=3N)				68127.5	0.0	28.89	3046.9	3046.9	2358.1	2358.1				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	2055/(SQRT Fy) BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	2200/(SQRT Fy) BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
45000.	4000.	40000.	7.54	7.54	10.37	10.37	45000.	45000.	50000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000		X
-BEND		X			X		0.8056		X

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = 1790.11 FT-KIPS, MR = 1569.01 FT-KIPS, M1/M2 = 1.1

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	12391.44	2192.72	4419.38	3432.86	0.00	1983.43	5887.21	12391.44	870.00	870.00
OPER.	20652.40	3654.54	7365.63	5721.43	0.00	1983.43	5887.21	20652.40	870.00	870.00

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
1558.97	620.14	1558.97	620.14	1.73	1.38

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 1.40

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.190 FOR +BEND AND = 0.228 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	1716.4	1442.1	41.133	L	1636.9	1375.3	55.133	0.000	6.09	2.42		
		-BEND	346.75	346.8	282.3	194.033	R	274.6	223.5	175.433	0.000	6.29	6.29	32.90	31.95
OPER.	HS20	+BEND	0.00	1716.4	1442.1	41.133	L	1636.9	1375.3	55.133	0.000	6.09	2.42		
		-BEND	346.75	346.8	282.3	194.033	R	274.6	223.5	175.433	0.000	6.29	6.29	32.90	31.95

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	7.513	-2.293	0.382	0.000	0.000	0.000
N 2	15.070	-4.144	0.581	0.000	0.000	0.000
T 3	22.713	-5.413	0.678	0.000	0.000	0.000
H 4	30.486	-5.715	0.706	0.000	0.000	0.000
5	24.649	-5.119	0.677	0.000	0.000	0.000
P 6	19.028	-4.160	0.600	0.000	0.000	0.000
O 7	13.667	-3.067	0.484	0.000	0.000	0.000
I 8	8.608	-1.925	0.338	0.000	0.000	0.000
N 9	3.969	-0.844	0.174	0.000	0.000	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	2008.3	0.0	31.1	0.0	0.0	0.0	2039.4
NEG AREA	0.0	307.2	0.0	0.0	0.0	0.0	307.2

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 2

C.P. LOCATION -- 1.40

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	6253.5	3500.2	2807.6	4740.3	3.6433	10.0942	1.6357	13.6707	HS 32.7	58.9
OPER.	HS20	10422.5	5833.6	4679.4	7900.5	6.0721	16.8237	2.7262	22.7845	HS 54.5	98.1

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	9165.5	4015.5	3846.2	5547.0	5.3398	11.5803	2.2408	15.9972		
OPER.	HS20	15275.8	6692.5	6410.3	9245.1	8.8997	19.3005	3.7346	26.6620		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	399.67	399.67	12.1469	12.1469		
OPER.	HS20	666.12	666.12	20.2449	20.2449		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION - 2.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 2 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
52.00	0.63	83.20	48.00	76.80	9.69	9.69	4.84	4.84	CONT	23.50	5.77	5.77	0.00	48.84	0.9980	0.9980

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	0.00	1.5	40.00	40.00	30.00

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	110.00	110.00	110.00	55786.7	55786.7	26.00	2145.6	2145.6	2145.6	2145.6	2360.00	2360.00	2360.00	2360.00
COM(N=N)				55786.7	0.0	26.00	2145.6	2145.6	2145.6	2145.6				
COM(N=3N)				55786.7	0.0	26.00	2145.6	2145.6	2145.6	2145.6				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
45000.	4000.	40000.	7.54	7.54	10.37	10.37	45000.	45000.	50000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X			X		0.8056	X	

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0
-BEND ML = -3292.24 FT-KIPS, MR = -1081.84 FT-KIPS, M1/M2 = 3.0

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	3713.61	3706.03	3706.03	3713.61	0.00	2360.00	0.00	3713.61	870.00	870.00
OPER.	6189.34	6176.72	6176.72	6189.34	0.00	2360.00	0.00	6189.34	870.00	870.00

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-1611.38	-490.03	-1611.38	-490.03	55.43	20.53

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 2.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.260 FOR +BEND AND = 0.208 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	109.7	87.0	279.543	R	76.9	61.1	258.800	0.000	5.81	4.01		
		-BEND	1191.	852.2	705.7	194.033	R	1190.8	986.2	175.433	82.700	5.57	5.57		
														59.84	61.76
OPER.	HS20	+BEND	0.00	109.7	87.0	279.543	R	76.9	61.1	258.800	0.000	5.81	4.01		
		-BEND	1191.	852.2	705.7	194.033	R	1190.8	986.2	175.433	82.700	5.57	5.57		
														59.84	61.76

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	-1.892	-5.733	0.955	0.000	0.000	0.000
N 2	-3.675	-10.359	1.453	0.000	0.000	0.000
T 3	-5.242	-13.531	1.694	0.000	0.000	0.000
H 4	-6.485	-14.288	1.766	0.000	0.000	0.000
5	-7.294	-12.798	1.693	0.000	0.000	0.000
P 6	-7.563	-10.401	1.499	0.000	0.000	0.000
O 7	-7.183	-7.666	1.209	0.000	0.000	0.000
I 8	-6.046	-4.813	0.846	0.000	0.000	0.000
N 9	-3.860	-2.111	0.435	0.000	0.000	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.0	0.0	77.9	0.0	0.0	0.0	77.9
NEG AREA	678.7	768.0	0.0	0.0	0.0	0.0	1446.7

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 2

C.P. LOCATION -- 2.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	4974.5	2445.2	4966.9	2452.8	45.3601	2.0533	45.2911	2.0597	HS 41.1	73.9
OPER.	HS20	8290.8	4075.3	8278.1	4087.9	75.6003	3.4222	75.4852	3.4328	HS 68.4	123.2

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	5847.1	3316.1	5837.8	3325.5	53.3179	2.7847	53.2327	2.7926		
OPER.	HS20	9745.3	5526.8	9729.7	5542.4	88.8633	4.6412	88.7211	4.6543		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	355.96	355.96	5.7640	5.7640		
OPER.	HS20	593.26	593.26	9.6066	9.6066		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION - 2.50

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 2 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
37.75	0.63	60.40	36.00	57.60	5.69	6.69	7.58	6.69	CONT	23.50	3.46	4.04	0.00	69.78	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	5.18	0.0	9.00	14.00	22.50

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	45.50	45.50	45.50	10069.2	10069.2	16.94	483.9	483.9	594.3	594.3	619.23	619.23	619.23	619.23
COM(N=N)				29426.7	0.0	33.56	7020.4	1982.0	876.9	800.9				
COM(N=3N)				21533.2	0.0	26.89	1982.0	1982.0	800.9	800.9				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000		X
-BEND		X			X		0.8056		X

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 1.0

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	9720.51	670.04	1214.14	822.91	0.00	619.23	6536.45	9720.51	469.80	469.80
OPER.	16200.85	1116.73	2023.57	1371.51	0.00	619.23	6536.45	16200.85	469.80	469.80

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-39.13	79.57	-39.13	79.57	13.47	3.71

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 2.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.228 FOR +BEND AND = 0.190 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD		TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	0.00	695.4	566.1	170.833	L	526.0	428.3	184.833	0.000	5.66	3.78		
		-BEND	203.36	158.5	133.2	96.916	R	203.4	170.9	82.700	0.000	5.49	5.49	30.11	30.11
OPER.	HS20	+BEND	0.00	695.4	566.1	170.833	L	526.0	428.3	184.833	0.000	5.66	3.78		
		-BEND	203.36	158.5	133.2	96.916	R	203.4	170.9	82.700	0.000	5.49	5.49	30.11	30.11

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	-0.637	1.241	-0.686	0.000	0.000	0.000
N 2	-1.238	2.903	-1.044	0.000	0.000	0.000
T 3	-1.766	5.197	-1.217	0.000	0.000	0.000
H 4	-2.185	8.743	-1.269	0.000	0.000	0.000
5	-2.457	13.698	-1.216	0.000	0.000	0.000
P 6	-2.548	9.976	-1.077	0.000	0.000	0.000
O 7	-2.420	6.710	-0.869	0.000	0.000	0.000
I 8	-2.037	3.881	-0.608	0.000	0.000	0.000
N 9	-1.300	1.570	-0.313	0.000	0.000	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	0.0	506.8	0.0	0.0	0.0	0.0	506.8
NEG AREA	228.6	0.0	55.9	0.0	0.0	0.0	284.6

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 2

C.P. LOCATION -- 2.50

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	9892.0	694.3	1196.5	847.2	14.2249	3.4141	1.7206	4.1658	HS 34.4	61.9
OPER.	HS20	16486.6	1157.2	1994.2	1412.0	23.7082	5.6902	2.8677	6.9430	HS 57.4	103.2

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	12176.3	851.8	1481.8	1040.6	17.5098	4.1884	2.1309	5.1167		
OPER.	HS20	20293.9	1419.6	2469.7	1734.3	29.1830	6.9806	3.5515	8.5279		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	206.52	206.52	6.8598	6.8598		
OPER.	HS20	344.21	344.21	11.4330	11.4330		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION - 3.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 3 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
38.75	0.63	62.00	36.00	57.60	6.69	6.69	4.86	4.86	CONT	23.50	4.04	4.04	0.00	69.78	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	6.94	0.0	19.25	19.25	22.50

-- SECTION PROPERTIES -- -------- SECTION MODULUS -------- ---- PLASTIC SECTION MODULUS ----

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	61.00	61.00	61.00	15881.8	15881.8	19.37	819.7	819.7	819.7	819.7	921.99	921.99	921.99	921.99
COM(N=N)				15881.8	0.0	19.37	819.7	819.7	819.7	819.7				
COM(N=3N)				15881.8	0.0	19.37	819.7	819.7	819.7	819.7				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000	X	
-BEND		X				X	0.8323	X	

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = -1011.93 FT-KIPS, MR = -7.22 FT-KIPS, M1/M2 = 140.2

--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- -- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- -- SHEAR CAPACITY (KIPS) --

	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	MAX. CAP. STEEL	MAX. CAP. CONC.	MU	VU LEFT	VU RIGHT
INV.	1134.98	1134.98	1134.98	1133.52	0.00	921.99	0.00	1134.98	469.80	469.80
OPER.	1891.63	1891.63	1891.63	1889.20	0.00	921.99	0.00	1891.63	469.80	469.80

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-309.55	-141.65	-309.55	-141.65	33.02	14.17

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 3.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.190 FOR +BEND AND = 0.243 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD	TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20 +BEND	0.00	153.5	129.0	96.916	R	165.9	139.4	82.700	0.000	9.80	65.92		
	-BEND	560.72	461.0	370.8	175.635	L	560.7	451.1	194.233	258.800	10.23	10.23		
													58.59	60.09
OPER.	HS20 +BEND	0.00	153.5	129.0	96.916	R	165.9	139.4	82.700	0.000	9.80	65.92		
	-BEND	560.72	461.0	370.8	175.635	L	560.7	451.1	194.233	258.800	10.23	10.23		
													58.59	60.09

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.617	-1.186	-2.328	0.000	0.000	0.000
N 2	1.199	-2.635	-3.540	0.000	0.000	0.000
T 3	1.710	-4.274	-4.128	0.000	0.000	0.000
H 4	2.116	-5.827	-4.303	0.000	0.000	0.000
5	2.380	-6.805	-4.125	0.000	0.000	0.000
P 6	2.468	-7.246	-3.653	0.000	0.000	0.000
O 7	2.343	-7.114	-2.946	0.000	0.000	0.000
I 8	1.972	-6.224	-2.062	0.000	0.000	0.000
N 9	1.259	-4.150	-1.060	0.000	0.000	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	221.4	0.0	0.0	0.0	0.0	0.0	221.4
NEG AREA	0.0	427.3	189.8	0.0	0.0	0.0	617.1

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005

MEMBER I.D. -- S 2

C.P. LOCATION -- 3.00

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1405.7	864.3	1405.7	862.8	8.4716	1.5413	8.4716	1.5387	HS 30.8	55.4
OPER.	HS20	2342.8	1440.4	2342.8	1438.0	14.1194	2.5689	14.1194	2.5645	HS 51.3	92.3

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	1672.4	1131.0	1672.4	1131.0	10.0790	2.0170	10.0791	2.0170		
OPER.	HS20	2787.4	1885.0	2787.4	1885.0	16.7984	3.3617	16.7984	3.3617		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	188.52	188.52	3.1370	3.1370		
OPER.	HS20	314.19	314.19	5.2284	5.2284		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS RELEASE 5.4

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION - 3.60

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 3 ******

-- STRUCTURAL STEEL PROPERTIES --

H (IN.)	Tweb (IN.)	H/Tweb	D (IN.)	D/Tweb	- B' (IN) - TOP	BOT	- B'/t - TOP	BOT	Lb (FT) TOP	BOT	Ry (IN) TOP	BOT	- Lb / Ry TOP	BOT	HYBRID RATIO, R +BEND	-BEND
38.25	0.63	61.20	36.00	57.60	5.69	6.69	5.69	5.35	CONT	22.47	3.46	4.04	0.00	66.73	1.0000	1.0000

-- COMPOSITE CONCRETE PROPERTIES --

EFF.WIDTH (IN.)	EFF.THICK. (IN.)	VALUE N	(AS)C (SQ.IN.)	(DS)C (IN.)	VALUE a	VALUE Y	Atf (SQ.IN.)	Abf (SQ.IN.)	Aw (SQ.IN.)
93.0	7.8	8	0.00	0.00	5.92	0.0	12.00	17.50	22.50

	GROSS AREA SQ.IN.	NET AREA +BEND SQ.IN.	NET AREA -BEND SQ.IN.	-- SECTION PROPERTIES -- IX +BEND IN.**4	IX -BEND IN.**4	C (BOT) IN.	-------- SECTION MODULUS -------- TOP +BEND IN.**3	TOP -BEND IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3	---- PLASTIC SECTION MODULUS ---- TOP +BEND IN.**3	TOP -BEND+ IN.**3	BOTT +BEND IN.**3	BOTT -BEND IN.**3
NON-COM	52.00	52.00	52.00	12403.1	12403.1	17.25	590.7	590.7	719.0	719.0	741.94	741.94	741.94	741.94
COM(N=N)				33789.5	0.0	33.23	6728.8	2092.9	1016.9	930.7				
COM(N=3N)				24641.5	0.0	26.48	2092.9	2092.9	930.7	930.7				

-- ULTIMATE STRENGTH --

Fy (PSI) STEEL	f'c (PSI) CONC.	Fy (PSI) REBAR	2055/(SQRT Fy) TOP FLANGE	BOT FLANGE	2200/(SQRT Fy) TOP FLANGE	BOT FLANGE	-- YIELD STRESS, Fy (PSI) -- BOT FLANGE	TOP FLANGE	WEB
36000.	4000.	40000.	8.43	8.43	11.60	11.60	36000.	36000.	36000.

***** SECTION QUALIFICATION *****

	STIFFENED LONG	STIFFENED TRANV	UNSTIFFENED	COMPACT	BRACED NON-COMPACT	UNBRACED NON-COMPACT	REDUCTION FACTOR	SYMMETRICAL	UNSYMMETRICAL
+BEND		X			X		0.0000		X
-BEND		X				X	0.8106		X

***** SECTION CAPACITY *****

+BEND ML = 0.00 FT-KIPS, MR = 0.00 FT-KIPS, M1/M2 = 0.0

-BEND ML = -7.22 FT-KIPS, MR = 294.29 FT-KIPS, M1/M2 = 0.0

	--- NON-COMPOSITE MOMENT CAPACITY (FT-KIPS) --- TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	MU	-- COMPOSITE MOMENT CAPACITY (FT-KIPS) -- MAX. CAP. STEEL	MAX. CAP. CONC.	MU	-- SHEAR CAPACITY (KIPS) -- VU LEFT	VU RIGHT
INV.	9316.75	795.55	1408.00	968.38	0.00	741.94	6138.11	9316.75	469.80	469.80
OPER.	15527.91	1325.92	2346.66	1613.97	0.00	741.94	6138.11	15527.91	469.80	469.80

***** MOMENT (FT-KIPS) AND SHEAR (KIPS) *****

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
331.75	138.59	331.75	138.59	-1.06	-0.31

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 3.60

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.260 FOR +BEND AND = 0.228 FOR -BEND)

-- LIVE LOAD --

	LIVE LOAD	TRUCK MOMENT REDIS LL+I FT-KIPS	TRUCK MOMENT LL+IMP FT-KIPS	TRUCK MOMENT LL FT-KIPS	TRUCK MOMENT LOC.NO. 1 WHEEL FT.	TRUCK MOMENT DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LANE MOMENT LOC.CONC. LOAD #1 FT.	LANE MOMENT LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20 +BEND	0.00	758.2	601.8	286.283	R	582.0	462.0	272.283	0.000	6.93	24.52		
	-BEND	182.19	182.2	148.3	175.635	L	148.5	120.9	194.233	0.000	6.76	6.76		
													28.05	28.05
OPER.	HS20 +BEND	0.00	758.2	601.8	286.283	R	582.0	462.0	272.283	0.000	6.93	24.52		
	-BEND	182.19	182.2	148.3	175.635	L	148.5	120.9	194.233	0.000	6.76	6.76		
													28.05	28.05

***** ORDINATES OF AND AREAS UNDER MOMENT INFLUENCE LINE (CONTINUOUS SPAN) *****

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.247	-0.474	1.765	0.000	0.000	0.000
N 2	0.480	-1.054	3.977	0.000	0.000	0.000
T 3	0.684	-1.710	6.439	0.000	0.000	0.000
H 4	0.846	-2.331	9.065	0.000	0.000	0.000
5	0.952	-2.722	11.833	0.000	0.000	0.000
P 6	0.987	-2.899	14.719	0.000	0.000	0.000
O 7	0.937	-2.846	10.957	0.000	0.000	0.000
I 8	0.789	-2.490	7.265	0.000	0.000	0.000
N 9	0.504	-1.660	3.621	0.000	0.000	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000

							AREA TOTALS
POS AREA	88.6	0.0	469.5	0.0	0.0	0.0	558.1
NEG AREA	0.0	170.9	0.0	0.0	0.0	0.0	170.9

***** MOMENT INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)	0.00	0.00	0.00	POS AREA =	0.00
Y-ORDINATE	0.00	0.00	0.00		

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 12/11/95

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION -- 3.60

***** RATING FACTOR *****

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	111111.0	1077.8	1035.6	1250.6	6.8202	5.9155	1.3659	6.8640	HS 27.3	49.2
OPER.	HS20	111111.0	1796.3	1726.0	2084.3	11.3669	9.8591	2.2765	11.4401	HS 45.5	82.0

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	8971.2	1292.2	1366.5	1511.6	11.8322	7.0926	1.8023	8.2969		
OPER.	HS20	14952.1	2153.7	2277.5	2519.4	19.7204	11.8210	3.0038	13.8282		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	217.65	217.65	7.6997	7.6997		
OPER.	HS20	362.76	362.76	12.8329	12.8329		

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 1.4

***** SECTION PROPERTIES IN RANGE 2 OF SPAN 1

H IN.	B IN.	T IN.	BP IN.		AREA SQ.IN.	IX IN**4	AS SQ.IN.	D IN.	ASP SQ.IN.	DP IN.	A IN.	K	J
24.00	22.00	4.00	9.63	+BEND	280.6	15235.2	4.39	22.50	1.93	2.00	1.00	0.000	0.000
				-BEND	231.1	11093.8	1.93	22.00	4.39	1.50	0.98	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)
Y-ORDINATE

POS AREA =

***** ALLOWABLE STRESS ***** MOMENT CAPACITY

	REINF. STEEL PSI	CONC PSI	CONC + BEND FT-KIPS	REINF - BEND FT-KIPS	REINF + BEND FT-KIPS	CONC - BEND FT-KIPS
INVENTORY	20000.0	1600.0	271.0	120.6	271.0	120.6
OPERATING	28000.0	2200.0	271.0	120.6	271.0	120.6
POST VEH1	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH2	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH3	0.0	0.0	0.0	0.0	0.0	0.0
POST SPEC	0.0	0.0	0.0	0.0	0.0	0.0

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	AREA TOTALS
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
E 1	2.246	-1.003	0.097	0.000	0.000	0.000	
N 2	4.519	-1.677	0.163	0.000	0.000	0.000	
T 3	6.861	-2.011	0.202	0.000	0.000	0.000	
H 4	9.308	-2.071	0.217	0.000	0.000	0.000	
5	7.277	-1.890	0.212	0.000	0.000	0.000	
P 6	5.421	-1.544	0.190	0.000	0.000	0.000	
O 7	3.744	-1.111	0.154	0.000	0.000	0.000	
I 8	2.265	-0.668	0.108	0.000	0.000	0.000	
N 9	1.023	-0.285	0.056	0.000	0.000	0.000	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
POS AREA	197.0	0.0	4.1	0.0	0.0	0.0	201.0
NEG AREA	0.0	71.3	0.0	0.0	0.0	0.0	71.3

***** TOTAL DL MOMENT EFFECT

FT-KIPS
47.8

***** AVAIL.CAPAC.FOR LL+IMPACT

	TOP +BEND F-KPS	TOP -BEND F-KPS	BOT +BEND F-KPS	BOT -BEND F-KPS
INVENTORY	96.4	84.3	96.4	84.3
OPERATING	160.7	140.5	160.7	140.5
VEH. 1	0.0	0.0	0.0	0.0
VEH. 2	0.0	0.0	0.0	0.0
VEH. 3	0.0	0.0	0.0	0.0
SPECIAL	0.0	0.0	0.0	0.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.292 FOR +BEND AND = 0.273 FOR -BEND)

LIVE LOAD		TRUCK LOAD LL+IMP FT-KIPS	TRUCK LOAD LL FT-KIPS	TRUCK LOAD LOC.NO. 1 WHEEL FT.	DIR	AXLE SPACE FT.	LANE LOAD LL+IMP FT-KIPS	LANE LOAD LL FT-KIPS	LOC.CONC LOAD FT.	LOC.CONC LOAD 2 FT.	RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE
INV HS20	+BEND	75.9	58.7	4.467	L	0.0	51.8	40.1	18.467		1.271	45.7	HS 25.4
	-BEND	22.1	17.3	89.250	R	0.0	14.4	11.3	69.433	0.000			
OPER HS20	+BEND	75.9	58.7	4.467	L	0.0	51.8	40.1	18.467		2.118	76.2	HS 42.4
	-BEND	22.1	17.3	89.250	R	0.0	14.4	11.3	69.433	0.000			
POST VEH1	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH2	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH3	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST SPEC	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 2.0

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 2

H IN.	B IN.	T IN.	BP IN.		AREA SQ.IN.	IX IN**4	AS SQ.IN.	D IN.	ASP SQ.IN.	DP IN.	A IN.	K	J
24.00	22.00	12.00	22.00	+BEND	528.0	25344.0	2.00	22.50	6.03	2.00	1.00	0.000	0.000
				-BEND	528.0	25344.0	6.03	22.00	2.00	1.50	1.00	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)
Y-ORDINATE

POS AREA =

***** ALLOWABLE STRESS ***** MOMENT CAPACITY

	REINF. STEEL PSI	CONC PSI	CONC + BEND FT-KIPS	REINF - BEND FT-KIPS	REINF + BEND FT-KIPS	CONC - BEND FT-KIPS
INVENTORY	20000.0	1600.0	131.8	368.8	131.8	368.8
OPERATING	28000.0	2200.0	131.8	368.8	131.8	368.8
POST VEH1	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH2	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH3	0.0	0.0	0.0	0.0	0.0	0.0
POST SPEC	0.0	0.0	0.0	0.0	0.0	0.0

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
E 1	-1.310	-2.508	0.241	0.000	0.000	0.000	
N 2	-2.553	-4.192	0.407	0.000	0.000	0.000	
T 3	-3.623	-5.028	0.504	0.000	0.000	0.000	
H 4	-4.431	-5.178	0.542	0.000	0.000	0.000	
5	-4.890	-4.725	0.530	0.000	0.000	0.000	
P 6	-4.915	-3.860	0.474	0.000	0.000	0.000	
O 7	-4.491	-2.778	0.386	0.000	0.000	0.000	
I 8	-3.571	-1.671	0.271	0.000	0.000	0.000	
N 9	-2.058	-0.712	0.140	0.000	0.000	0.000	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	AREA
							TOTALS
POS AREA	0.0	0.0	10.2	0.0	0.0	0.0	10.2
NEG AREA	147.0	178.3	0.0	0.0	0.0	0.0	325.3

***** TOTAL DL MOMENT EFFECT

FT-KIPS
-123.3

***** AVAIL.CAPAC.FOR LL+IMPACT

	TOP +BEND F-KPS	TOP -BEND F-KPS	BOT +BEND F-KPS	BOT -BEND F-KPS
INVENTORY	134.8	96.3	134.8	96.3
OPERATING	224.6	160.4	224.6	160.4
VEH. 1	0.0	0.0	0.0	0.0
VEH. 2	0.0	0.0	0.0	0.0
VEH. 3	0.0	0.0	0.0	0.0
SPECIAL	0.0	0.0	0.0	0.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.300 FOR +BEND AND = 0.282 FOR -BEND)

LIVE LOAD		TRUCK LOAD LL+IMP FT-KIPS	TRUCK LOAD LL FT-KIPS	LOC.NO. 1 WHEEL FT.	DIR	AXLE SPACE FT.	LANE LOAD LL+IMP FT-KIPS	LANE LOAD LL FT-KIPS	LOC.CONC LOAD FT.	LOC.CONC LOAD 2 FT.	RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE
INV HS20	+BEND	4.6	3.5	138.749	R	0.0	2.9	2.2	116.000				
	-BEND	55.6	43.3	89.250	R	0.0	68.1	53.1	69.433	27.700	1.414	50.9	HS 28.3
OPER HS20	+BEND	4.6	3.5	138.749	R	0.0	2.9	2.2	116.000				
	-BEND	55.6	43.3	89.250	R	0.0	68.1	53.1	69.433	27.700	2.357	84.8	HS 47.1
POST VEH1	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH2	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH3	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST SPEC	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 2.5

***** SECTION PROPERTIES IN RANGE 3 OF SPAN 2

H IN.	B IN.	T IN.	BP IN.		AREA SQ.IN.	IX IN**4	AS SQ.IN.	D IN.	ASP SQ.IN.	DP IN.	A IN.	K	J
24.00	22.00	4.00	9.63	+BEND	280.6	15235.2	4.39	22.50	2.54	2.00	1.00	0.000	0.000
				-BEND	231.1	11093.8	2.54	22.00	4.39	1.50	0.98	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)
Y-ORDINATE

POS AREA =

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
E 1	-0.390	0.992	-0.266	0.000	0.000	0.000	
N 2	-0.760	2.289	-0.448	0.000	0.000	0.000	
T 3	-1.078	3.969	-0.555	0.000	0.000	0.000	
H 4	-1.318	6.059	-0.597	0.000	0.000	0.000	
5	-1.455	8.641	-0.583	0.000	0.000	0.000	
P 6	-1.462	5.920	-0.522	0.000	0.000	0.000	
O 7	-1.336	3.732	-0.424	0.000	0.000	0.000	
I 8	-1.063	2.023	-0.298	0.000	0.000	0.000	
N 9	-0.612	0.803	-0.154	0.000	0.000	0.000	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	AREA TOTALS
POS AREA	0.0	200.3	0.0	0.0	0.0	0.0	200.3
NEG AREA	43.7	0.0	11.2	0.0	0.0	0.0	55.0

***** ALLOWABLE STRESS ***** MOMENT CAPACITY

	REINF. STEEL PSI	CONC PSI	CONC + BEND FT-KIPS	REINF - BEND FT-KIPS	REINF + BEND FT-KIPS	CONC - BEND FT-KIPS
INVENTORY	20000.0	1600.0	271.0	155.8	271.0	155.8
OPERATING	28000.0	2200.0	271.0	155.8	271.0	155.8
POST VEH1	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH2	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH3	0.0	0.0	0.0	0.0	0.0	0.0
POST SPEC	0.0	0.0	0.0	0.0	0.0	0.0

***** TOTAL DL MOMENT EFFECT

FT-KIPS
50.3

***** AVAIL.CAPAC.FOR LL+IMPACT

	TOP +BEND F-KPS	TOP -BEND F-KPS	BOT +BEND F-KPS	BOT -BEND F-KPS
INVENTORY	94.9	102.1	94.9	102.1
OPERATING	158.2	170.2	158.2	170.2
VEH. 1	0.0	0.0	0.0	0.0
VEH. 2	0.0	0.0	0.0	0.0
VEH. 3	0.0	0.0	0.0	0.0
SPECIAL	0.0	0.0	0.0	0.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.273 FOR +BEND AND = 0.292 FOR -BEND)

LIVE LOAD		---TRUCK LOAD--- LL+IMP FT-KIPS	LL FT-KIPS	LOC.NO. 1 WHEEL FT.	DIR	AXLE SPACE FT.	---LANE LOAD--- LL+IMP FT-KIPS	LL FT-KIPS	LOC.CONC LOAD FT.	LOC.CONC LOAD 2 FT.	RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE
INV HS20	+BEND	70.0	55.0	89.249	R	0.0	49.3	38.8	75.250		1.356	48.8	HS 27.1
	-BEND	15.4	11.9	4.466	L	0.0	10.8	8.4	27.700	0.000			
OPER HS20	+BEND	70.0	55.0	89.249	R	0.0	49.3	38.8	75.250		2.259	81.3	HS 45.2
	-BEND	15.4	11.9	4.466	L	0.0	10.8	8.4	27.700	0.000			
POST VEH1	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH2	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH3	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST SPEC	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 3.0

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 3

H IN.	B IN.	T IN.	BP IN.		AREA SQ.IN.	IX IN**4	AS SQ.IN.	D IN.	ASP SQ.IN.	DP IN.	A IN.	K	J
24.00	22.00	12.00	22.00	+BEND	528.0	25344.0	2.00	22.50	5.07	2.00	1.00	0.000	0.000
				-BEND	528.0	25344.0	5.07	22.00	2.00	1.50	1.00	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)
Y-ORDINATE

POS AREA =

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
E 1	0.530	-1.324	-0.773	0.000	0.000	0.000	
N 2	1.034	-2.864	-1.302	0.000	0.000	0.000	
T 3	1.467	-4.483	-1.614	0.000	0.000	0.000	
H 4	1.794	-5.970	-1.736	0.000	0.000	0.000	
5	1.980	-7.077	-1.695	0.000	0.000	0.000	
P 6	1.990	-7.566	-1.519	0.000	0.000	0.000	
O 7	1.818	-7.207	-1.234	0.000	0.000	0.000	
I 8	1.446	-5.916	-0.868	0.000	0.000	0.000	
N 9	0.833	-3.498	-0.448	0.000	0.000	0.000	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	AREA
							TOTALS
POS AREA	59.5	0.0	0.0	0.0	0.0	0.0	59.5
NEG AREA	0.0	267.0	32.6	0.0	0.0	0.0	299.7

***** ALLOWABLE STRESS ***** MOMENT CAPACITY

	REINF. STEEL PSI	CONC PSI	CONC + BEND FT-KIPS	REINF - BEND FT-KIPS	REINF + BEND FT-KIPS	CONC - BEND FT-KIPS
INVENTORY	20000.0	1600.0	131.8	314.0	131.8	314.0
OPERATING	28000.0	2200.0	131.8	314.0	131.8	314.0
POST VEH1	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH2	0.0	0.0	0.0	0.0	0.0	0.0
POST VEH3	0.0	0.0	0.0	0.0	0.0	0.0
POST SPEC	0.0	0.0	0.0	0.0	0.0	0.0

***** TOTAL DL MOMENT EFFECT

FT-KIPS
-102.5

***** AVAIL.CAPAC.FOR LL+IMPACT

	TOP +BEND F-KPS	TOP -BEND F-KPS	BOT +BEND F-KPS	BOT -BEND F-KPS
INVENTORY	122.3	83.4	122.3	83.4
OPERATING	203.9	139.0	203.9	139.0
VEH. 1	0.0	0.0	0.0	0.0
VEH. 2	0.0	0.0	0.0	0.0
VEH. 3	0.0	0.0	0.0	0.0
SPECIAL	0.0	0.0	0.0	0.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.292 FOR +BEND AND = 0.296 FOR -BEND)

LIVE LOAD		---TRUCK LOAD--- LL+IMP FT-KIPS	LL FT-KIPS	LOC.NO. 1 WHEEL FT.	DIR	AXLE SPACE FT.	---LANE LOAD--- LL+IMP FT-KIPS	LL FT-KIPS	LOC.CONC LOAD FT.	LOC.CONC LOAD 2 FT.	RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE
INV HS20	+BEND	20.9	16.2	4.466	L	0.0	13.0	10.1	27.700				
	-BEND	82.7	63.8	61.248	L	0.0	63.4	48.9	81.067	116.000	1.008	36.3	HS 20.2
OPER HS20	+BEND	20.9	16.2	4.466	L	0.0	13.0	10.1	27.700				
	-BEND	82.7	63.8	61.248	L	0.0	63.4	48.9	81.067	116.000	1.681	60.5	HS 33.6
POST VEH1	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH2	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH3	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST SPEC	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.4

DATE 12/11/95

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 3.6

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 3

H IN.	B IN.	T IN.	BP IN.		AREA SQ.IN.	IX IN**4	AS SQ.IN.	D IN.	ASP SQ.IN.	DP IN.	A IN.	K	J
24.00	22.00	12.00	22.00	+BEND	528.0	25344.0	2.00	22.50	5.07	2.00	1.00	0.000	0.000
				-BEND	528.0	25344.0	5.07	22.00	2.00	1.50	1.00	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)
Y-ORDINATE

POS AREA =

***** ALLOWABLE STRESS

	REINF. STEEL PSI	CONC PSI
INVENTORY	20000.0	1600.0
OPERATING	28000.0	2200.0

***** MOMENT CAPACITY

	CONC + BEND FT-KIPS	REINF - BEND FT-KIPS	REINF + BEND FT-KIPS	CONC - BEND FT-KIPS
INVENTORY	131.8	314.0	131.8	314.0
OPERATING	131.8	314.0	131.8	314.0
POST VEH1	0.0	0.0	0.0	0.0
POST VEH2	0.0	0.0	0.0	0.0
POST VEH3	0.0	0.0	0.0	0.0
POST SPEC	0.0	0.0	0.0	0.0

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	AREA TOTALS
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
E 1	0.212	-0.530	0.857	0.000	0.000	0.000	
N 2	0.414	-1.146	1.813	0.000	0.000	0.000	
T 3	0.587	-1.793	2.854	0.000	0.000	0.000	
H 4	0.718	-2.388	3.972	0.000	0.000	0.000	
5	0.792	-2.831	5.155	0.000	0.000	0.000	
P 6	0.796	-3.026	6.392	0.000	0.000	0.000	
O 7	0.727	-2.883	4.756	0.000	0.000	0.000	
I 8	0.578	-2.366	3.153	0.000	0.000	0.000	
N 9	0.333	-1.399	1.571	0.000	0.000	0.000	
T 0	0.000	0.000	0.000	0.000	0.000	0.000	
POS AREA	23.8	0.0	89.0	0.0	0.0	0.0	112.8
NEG AREA	0.0	106.8	0.0	0.0	0.0	0.0	106.8

***** TOTAL DL MOMENT EFFECT

FT-KIPS
19.9

***** AVAIL.CAPAC.FOR LL+IMPACT

	TOP +BEND F-KPS	TOP -BEND F-KPS	BOT +BEND F-KPS	BOT -BEND F-KPS
INVENTORY	48.9	156.9	48.9	156.9
OPERATING	81.4	261.5	81.4	261.5
VEH. 1	0.0	0.0	0.0	0.0
VEH. 2	0.0	0.0	0.0	0.0
VEH. 3	0.0	0.0	0.0	0.0
SPECIAL	0.0	0.0	0.0	0.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.300 FOR +BEND AND = 0.273 FOR -BEND)

LIVE LOAD		TRUCK LOAD LL+IMP FT-KIPS	TRUCK LOAD LL FT-KIPS	TRUCK LOAD LOC.NO. 1 WHEEL FT.	DIR	AXLE SPACE FT.	LANE LOAD LL+IMP FT-KIPS	LANE LOAD LL FT-KIPS	LANE LOAD LOC.CONC LOAD FT.	LOC.CONC LOAD 2 FT.	RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE
INV HS20	+BEND	41.9	32.3	135.832	R	0.0	33.0	25.4	121.833		1.165	41.9	HS 23.3
	-BEND	32.5	25.5	61.248	L	0.0	21.3	16.7	81.067	0.000			
OPER HS20	+BEND	41.9	32.3	135.832	R	0.0	33.0	25.4	121.833		1.942	69.9	HS 38.8
	-BEND	32.5	25.5	61.248	L	0.0	21.3	16.7	81.067	0.000			
POST VEH1	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH2	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST VEH3	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									
POST SPEC	+BEND	0.0	0.0	0.000							0.000	0.0	
	-BEND	0.0	0.0	0.000									

SUMMARY OF SHEAR ANALYSIS

DATE 12/11/95

D/P STRUCTURE I.D. G65-005

MEMB. ID	MATL	SPAN NO.	DIS FRM L LT SPRT R FT.	DL SHEAR KIPS	SDL SHEAR KIPS	---INVENTORY--- LL+I MAX.V KIPS	T L	LL+I MIN.V KIPS	T L	---OPERATING--- LL+I MAX.V KIPS	T L	LL+I MIN.V KIPS	T L	--VEH. 1 -- LL+I MAX.V KIPS	LL+I MIN.V KIPS	--VEH. 2 -- LL+I MAX.V KIPS	LL+I MIN.V KIPS	--VEH. 3 -- LL+I MAX.V KIPS	LL+I MIN.V KIPS	--SPECIAL-- LL+I MAX.V KIPS	LL+I MIN.V KIPS
S03	CSC	1	0.000 L	12.5	6.6	54.3	T	7.0	T	54.3	T	7.0	T								
		1	20.367 L	3.2	0.7	25.1	T	18.5	T	25.1	T	18.5	T								
		2	0.000 L	33.8	14.4	63.0	T	0.5	L	63.0	T	0.5	L								
		2	40.833 L	0.4	0.2	23.3	T	26.3	T	23.3	T	26.3	T								
		3	0.000 L	36.6	17.0	62.4	T	6.0	L	62.4	T	6.0	L								
		3	53.625 L	6.9	2.2	23.0	T	32.6	T	23.0	T	32.6	T								
		4	0.000 L	48.4	20.6	60.7	T	3.2	T	60.7	T	3.2	T								
		4	53.625 L	4.2	1.4	27.2	T	27.1	T	27.2	T	27.1	T								
		5	0.000 L	37.2	15.9	60.3	T	2.5	L	60.3	T	2.5	L								
		5	41.750 L	3.4	0.9	21.2	T	54.7	T	21.2	T	54.7	T								
		5	69.583 L	18.4	9.0	8.7	L	56.8	T	8.7	L	56.8	T								
S02	CSC	1	0.000 L	54.8	21.1	59.5	L	6.1	T	59.5	L	6.1	T								
		1	55.133 L	1.7	1.4	32.9	T	25.5	T	32.9	T	25.5	T								
		2	0.000 L	55.4	20.5	61.8	T	3.9	T	61.8	T	3.9	T								
		2	47.000 L	13.5	3.7	30.1	T	22.2	T	30.1	T	22.2	T								
		3	0.000 L	33.0	14.2	60.1	T	2.9	L	60.1	T	2.9	L								
		3	40.450 L	1.1	0.3	20.9	T	28.1	T	20.9	T	28.1	T								
		3	67.417 L	23.5	10.0	6.9	T	56.7	T	6.9	T	56.7	T								
S03	RC	1	0.000 L	6.2	0.8	9.5	T	1.2	T	9.5	T	1.2	T								
		1	18.467 L	0.7	0.1	4.0	T	3.5	T	4.0	T	3.5	T								
		2	0.000 L	11.6	1.4	10.6	T	0.3	T	10.6	T	0.3	T								
		2	29.083 L	0.3	0.1	3.6	T	4.4	T	3.6	T	4.4	T								
		3	0.000 L	11.1	1.1	9.2	T	0.7	T	9.2	T	0.7	T								
		3	17.500 L	1.5	0.3	3.4	L	3.9	T	3.4	L	3.9	T								
		3	29.167 L	4.9	0.3	2.8	T	8.3	T	2.8	T	8.3	T								