ATTACHMENT 25 – Mn/DOT BARS LOAD RATING COMPUTER PRINTOUT DATED AUGUST 18, 1997

(95 pages)

Hold until 1st Jan 1998 P4 = 1-1-2

INV HS 19

OPR HS 31.5

BARS-PC R5.5 - MOD

STRUCTURE I.D. = G65-005

(Note: Errors on US.4 for Neg check points)

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* STRUCTURE HEADER AND DESCRIPTION *

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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.=

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* STRUCTURE LOCATION AND PERMANENT IDENTIFICATION FACTORS *

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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 =

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* COMMENTS *

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300-- 6 1 .17 FT WC ARCH DECK TRUSS AND TRUSS FL BM'S NOT RATED. S01 IS 5 SPAN

400-- 6 2 SO. APPR., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC

500-- 6 3 SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6

600-- 6 4 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

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

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	MEMBER ID	SPANS SYMM	STIFF. CODE	SPAN 1 (SPAN 4)	SPAN 2 (SPAN 5)	SPAN 3 (SPAN 6)	MATL CODE	ALLOWABLE STRESS FY	FB	FC*	FC**	LL DIST. FACTOR	END FL.BM	THRU DECK	MAX INV	IMPACT OP.	IMPACT POST	FACTOR SPEC
700-- 8	S 1	5	X	50.917	81.667	107.250	CSC	.00		.00		1.485			.00	.00	.00	.00
800-- 8	S 1	0	X	107.250	69.583	.000		.00		.00		.000			.00	.00	.00	.00
900-- 8	S 2	3	X	137.833	94.000	67.417	CSC	36000.00		.00		1.485			.00	.00	.00	.00
1000-- 8	S 3	3		46.167	58.167	29.167	RC	.00		.00		.271			.00	.00	.00	.00
1100-- 8	S 4	4	X	38.000	38.000	.000	CSC	36000.00		.00		1.485			.00	.00	.00	.00
1200-- 8	S 5	6	X	38.000	38.000	38.000	CSC	36000.00		.00		1.485			.00	.00	.00	.00

Added 98

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

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	MEMBER ID	SYMM.	SPAN NO.	DISTANCE FR. LEFT SUPP.	LOAD TYPE	LOAD P OR W(L)	W(R)	LENGTH
1300--10	S 1		1	.000FT.	W	487.0	.0	50.917FT.

1400--10	S 1		2	.000FT.	W	487.0	.0	81.667FT.
1500--10	S 1		3	.000FT.	W	487.0	.0	107.250FT.
1600--10	S 1		4	.000FT.	W	487.0	.0	107.250FT.
1700--10	S 1		5	.000FT.	W	487.0	.0	69.583FT.
1800--10	S 2		1	.000FT.	W	487.0	.0	137.833FT.
1900--10	S 2		2	.000FT.	W	487.0	.0	94.000FT.
2000--10	S 2		3	.000FT.	W	487.0	.0	67.417FT.
2100--10	S 3		1	.000FT.	W	47.0	.0	46.167FT.
2200--10	S 3		2	.000FT.	W	47.0	.0	58.167FT.
2300--10	S 3		3	.000FT.	W	47.0	.0	29.167FT.
2400--10	S 4		2	.000FT.	W	487.0	.0	38.000FT.
2500--10	S 4	X	1	.000FT.	W	487.0	.0	38.000FT.
2600--10	S 5		2	.000FT.	W	487.0	.0	38.000FT.
2700--10	S 5		3	.000FT.	W	487.0	.0	38.000FT.
2800--10	S 5	X	1	.000FT.	W	487.0	.0	38.000FT.

increased from 358 → 487

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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
3000--11	S 1		1	1	40.917FT.	1	0			.000FT.	.000FT.		0.		0.
2900--11	S 1		1	2	10.000FT.	2	0			.000FT.	.000FT.		0.		0.
3200--11	S 1		2	1	8.000FT.	2	0		1	70.000FT.	.000FT.		0.		0.
3100--11	S 1		2	2	12.000FT.	1	0			.000FT.	.000FT.		0.		0.
3500--11	S 1		2	3	40.000FT.	3	0			.000FT.	.000FT.		0.		0.
3400--11	S 1		2	4	10.000FT.	1	0			.000FT.	.000FT.		0.		0.
3300--11	S 1		2	5	11.667FT.	4	5	SB		.000FT.	.000FT.		0.		0.
3600--11	S 1		3	1	10.000FT.	5	0			.000FT.	.000FT.		0.		0.
3800--11	S 1		3	2	86.250FT.	6	0			.000FT.	.000FT.		0.		0.
3700--11	S 1		3	3	11.000FT.	7	0			.000FT.	.000FT.		0.		0.
4000--11	S 1		4	1	11.000FT.	7	0			.000FT.	.000FT.		0.		0.
3900--11	S 1		4	2	86.250FT.	8	0			.000FT.	.000FT.		0.		0.
4100--11	S 1		4	3	10.000FT.	9	0			.000FT.	.000FT.		0.		0.
4200--11	S 1		5	1	14.000FT.	9	0			.000FT.	.000FT.		0.		0.
4300--11	S 1		5	2	55.583FT.	10	0			.000FT.	.000FT.		0.		0.
4400--11	S 2		1	1	112.833FT.	1	0			.000FT.	.000FT.	A	45000.	W	50000.
4500--11	S 2		1	2	25.000FT.	2	0			.000FT.	.000FT.	A	45000.	W	50000.
4600--11	S 2		2	1	8.000FT.	2	0			.000FT.	.000FT.	A	45000.	W	50000.
4800--11	S 2		2	2	16.000FT.	3	4	PB		.000FT.	.000FT.	A	45000.	W	50000.
4700--11	S 2		2	3	52.000FT.	5	0			.000FT.	.000FT.		0.		0.
4900--11	S 2		2	4	18.000FT.	6	0			.000FT.	.000FT.		0.		0.
5100--11	S 2		3	1	13.000FT.	6	0			.000FT.	.000FT.		0.		0.
5000--11	S 2		3	2	54.417FT.	7	0			.000FT.	.000FT.		0.		0.
5300--11	S 3		1	1	5.000FT.	1	0			.000FT.	.000FT.		0.		0.
5200--11	S 3		1	2	21.000FT.	2	0			.000FT.	.000FT.		0.		0.
5500--11	S 3		1	3	14.167FT.	3	0			.000FT.	.000FT.		0.		0.
5400--11	S 3		1	4	6.000FT.	1	0			.000FT.	.000FT.		0.		0.
5700--11	S 3		2	1	6.000FT.	1	0			.000FT.	.000FT.		0.		0.
5600--11	S 3		2	2	12.167FT.	3	0			.000FT.	.000FT.		0.		0.
6000--11	S 3		2	3	22.000FT.	4	0			.000FT.	.000FT.		0.		0.
5900--11	S 3		2	4	11.000FT.	3	0			.000FT.	.000FT.		0.		0.
5800--11	S 3		2	5	7.000FT.	5	0			.000FT.	.000FT.		0.		0.
6100--11	S 3		3	1	29.167FT.	6	0			.000FT.	.000FT.		0.		0.
6200--11	S 4		1	1	38.000FT.	1	0			.000FT.	.000FT.		0.		0.
6300--11	S 4		2	1	38.000FT.	1	0			.000FT.	.000FT.		0.		0.
6400--11	S 5		1	1	38.000FT.	1	0			.000FT.	.000FT.		0.		0.
6500--11	S 5		2	1	38.000FT.	1	0			.000FT.	.000FT.		0.		0.
6600--11	S 5		3	1	38.000FT.	1	0			.000FT.	.000FT.		0.		0.

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

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MEMBER -- NON-DETAILED DESCRIPTION								DETAILED DESCRIPTION					
ID	SEC.	A	I	S	CODE	SAME	ADR	H	ELE	A	IX	DY	DX
6700--12	S 1	0	.00	.0	.0	1	0	32.86	1	11.50P	.7	32.5	.0
6800--12	S 1	0	.00	.0	.0	1	0	.00	2	.55P	31.4	16.4	.0
6900--12	S 1	0	.00	.0	.0	1	0	.00	3	11.50P	.7	.4	.0
7000--12	S 1	0	.00	.0	.0	2	0	34.18	1	11.50P	1.4	33.5	.0
7100--12	S 1	0	.00	.0	.0	2	0	.00	2	.55P	31.4	17.1	.0
7200--12	S 1	0	.00	.0	.0	2	0	.00	3	11.50P	1.4	.7	.0
7300--12	S 1	0	.00	.0	.0	3	0	34.54	1	11.50P	1.6	33.8	.0
7400--12	S 1	0	.00	.0	.0	3	0	.00	2	.55P	31.4	17.3	.0
7500--12	S 1	0	.00	.0	.0	3	0	.00	3	11.50P	1.6	.8	.0
7600--12	S 1	0	.00	.0	.0	4	0	34.76	1	14.00P	.9	34.3	.0
7700--12	S 1	0	.00	.0	.0	4	0	.00	2	.38P	33.0	17.4	.0
7800--12	S 1	0	.00	.0	.0	4	0	.00	3	14.00P	.9	.4	.0
7900--12	S 1	0	.00	.0	.0	5	0	49.76	1	14.00P	.9	49.3	.0
8000--12	S 1	0	.00	.0	.0	5	0	.00	2	.38P	48.0	24.9	.0
8100--12	S 1	0	.00	.0	.0	5	0	.00	3	14.00P	.9	.4	.0
8200--12	S 1	0	.00	.0	.0	6	0	50.13	1	12.00P	.8	49.8	.0
8300--12	S 1	0	.00	.0	.0	6	0	.00	2	.38P	48.0	25.4	.0
8400--12	S 1	0	.00	.0	.0	6	0	.00	3	14.00P	1.4	.7	.0
8500--12	S 1	0	.00	.0	.0	7	0	52.50	1	14.00P	2.3	51.4	.0
8600--12	S 1	0	.00	.0	.0	7	0	.00	2	.38P	48.0	26.3	.0
8700--12	S 1	0	.00	.0	.0	7	0	.00	3	14.00P	2.3	1.1	.0
8800--12	S 1	0	.00	.0	.0	8	0	49.63	1	12.00P	.8	49.3	.0
8900--12	S 1	0	.00	.0	.0	8	0	.00	2	.38P	48.0	24.9	.0
9000--12	S 1	0	.00	.0	.0	8	0	.00	3	14.00P	.9	.4	.0
9100--12	S 1	0	.00	.0	.0	9	0	50.75	1	14.00P	1.4	50.1	.0
9200--12	S 1	0	.00	.0	.0	9	0	.00	2	.38P	48.0	25.4	.0
9300--12	S 1	0	.00	.0	.0	9	0	.00	3	14.00P	1.4	.7	.0
9400--12	S 1	0	.00	.0	.0	10	0	49.50	1	12.00P	.8	49.1	.0
9500--12	S 1	0	.00	.0	.0	10	0	.00	2	.38P	48.0	24.8	.0
9600--12	S 1	0	.00	.0	.0	10	0	.00	3	14.00P	.8	.4	.0
9700--12	S 2	0	.00	.0	.0	1	0	51.25	1	16.00P	1.3	50.6	.0
9800--12	S 2	0	.00	.0	.0	1	0	.00	2	.63P	48.0	25.0	.0
9900--12	S 2	0	.00	.0	.0	1	0	.00	3	20.00P	2.0	1.0	.0
10000--12	S 2	0	.00	.0	.0	2	0	52.00	1	20.00P	2.0	51.0	.0
10100--12	S 2	0	.00	.0	.0	2	0	.00	2	.63P	48.0	26.0	.0
10200--12	S 2	0	.00	.0	.0	2	0	.00	3	20.00P	2.0	1.0	.0
10300--12	S 2	0	.00	.0	.0	3	0	52.00	1	14.00P	2.0	51.0	.0
10400--12	S 2	0	.00	.0	.0	3	0	.00	2	.63P	48.0	26.0	.0
10500--12	S 2	0	.00	.0	.0	3	0	.00	3	14.00P	2.0	1.0	.0
10600--12	S 2	0	.00	.0	.0	4	0	40.00	1	14.00P	2.0	39.0	.0
10700--12	S 2	0	.00	.0	.0	4	0	.00	2	.63P	36.0	20.0	.0
10800--12	S 2	0	.00	.0	.0	4	0	.00	3	14.00P	2.0	1.0	.0
10900--12	S 2	0	.00	.0	.0	5	0	37.75	1	12.00P	.8	37.4	.0
11000--12	S 2	0	.00	.0	.0	5	0	.00	2	.63P	36.0	19.0	.0
11100--12	S 2	0	.00	.0	.0	5	0	.00	3	14.00P	1.0	.5	.0
11200--12	S 2	0	.00	.0	.0	6	0	38.75	1	14.00P	1.4	38.1	.0
11300--12	S 2	0	.00	.0	.0	6	0	.00	2	.63P	36.0	19.4	.0
11400--12	S 2	0	.00	.0	.0	6	0	.00	3	14.00P	1.4	.7	.0
11500--12	S 2	0	.00	.0	.0	7	0	38.25	1	12.00P	1.0	37.8	.0
11600--12	S 2	0	.00	.0	.0	7	0	.00	2	.63P	36.0	19.3	.0
11700--12	S 2	0	.00	.0	.0	7	0	.00	3	14.00P	1.3	.6	.0
11800--12	S 4	0	.00	.0	.0	1	0	26.92	1	10.00P	.8	26.5	.0
11900--12	S 4	0	.00	.0	.0	1	0	.00	2	.49P	25.4	13.5	.0
12000--12	S 4	0	.00	.0	.0	1	0	.00	3	10.00P	.8	.4	.0
12100--12	S 5	0	.00	.0	.0	1	0	26.92	1	10.00P	.8	26.5	.0
12200--12	S 5	0	.00	.0	.0	1	0	.00	2	.49P	25.4	13.5	.0
12300--12	S 5	0	.00	.0	.0	1	0	.00	3	10.00P	.8	.4	.0

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

MEMBER ID	SECT. NO.	SAME AS	BFL ADR	H	A	B	B*	T	I R	AS	D	COMP CODE
12800--13	S 3	1	0	24.00	.00	22.00	22.00	12.00	1	6.03	2.00	
13000--13	S 3	1	0	.00	.00	22.00	.00	12.00	2	2.00	22.50	X
12700--13	S 3	2	0	24.00	22.50	22.00	9.63	4.25	1	1.93	2.00	X
13100--13	S 3	2	0	.00	.00	22.00	.00	4.00	2	4.39	22.50	
12600--13	S 3	3	2 R	24.00	22.50	22.00	13.50	4.25	1	1.93	2.00	X
12500--13	S 3	4	2 R	.00	.00	.00	.00	.00	1	2.54	2.00	X
12400--13	S 3	5	1 R	.00	.00	.00	.00	.00	1	5.07	2.00	
12900--13	S 3	6	0	24.00	.00	22.00	22.00	12.00	1	5.07	2.00	X
13200--13	S 3	6	0	.00	.00	22.00	.00	12.00	2	2.00	22.50	

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

MEMBER ID	SPAN SYMM	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.
13400--14	S 1	1	1 40.000FT.	C	0	1	0		98.00	6.25	18.00	1.00	93.00	7.75	4.50
13300--14	S 1	1	2 10.917FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
13600--14	S 1	2	1 14.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
13500--14	S 1	2	2 56.000FT.	C	0	1	0		.00	.00	.00	.00	.00	.00	.00
13700--14	S 1	2	3 11.667FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
13800--14	S 1	3	1 10.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
14000--14	S 1	3	2 68.250FT.	C	0	1	0		.00	.00	.00	.00	.00	.00	.00
13900--14	S 1	3	3 29.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
14300--14	S 1	4	1 33.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
14200--14	S 1	4	2 53.250FT.	C	0	1	0		.00	.00	.00	.00	.00	.00	.00
14100--14	S 1	4	3 21.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
14400--14	S 1	5	1 14.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
14500--14	S 1	5	2 55.583FT.	C	0	1	0		.00	.00	.00	.00	.00	.00	.00
14600--14	S 2	1	1 112.833FT.	C	0	1	0		98.00	6.25	18.00	1.00	93.00	7.75	4.50
14700--14	S 2	1	2 25.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
14800--14	S 2	2	1 44.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15000--14	S 2	2	2 32.000FT.	C	0	1	0		.00	.00	.00	.00	.00	.00	.00
14900--14	S 2	2	3 18.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15200--14	S 2	3	1 13.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15100--14	S 2	3	2 54.417FT.	C	0	1	0		.00	.00	.00	.00	.00	.00	.00
15300--14	S 4	1	1 31.000FT.	C	0	1	0		98.00	6.25	15.00	1.00	93.00	7.75	4.50
15400--14	S 4	1	2 7.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15500--14	S 4	2	1 38.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15600--14	S 5	1	1 31.000FT.	C	0	1	0		98.00	6.25	15.00	1.00	93.00	7.75	4.50
15700--14	S 5	1	2 7.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15800--14	S 5	2	1 38.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00
15900--14	S 5	3	1 38.000FT.	N	0	1	0		.00	.00	.00	.00	.00	.00	.00

BRACING LENGTH SPECIFICATIONS - LOAD FACTOR ANALYSIS

MEMBER ID	SPAN SYMM	RANGE T/B	RANGE LENGTH	SUPPORT COND. LEFT	RIGHT	SPACES	SPACING DISTANCE	STIFF SPACING
16000--16	S 1	1 T 1	50.917FT.C			0	.000FT.	.000IN.
16100--16	S 1	1 B 1	50.917FT.SP	SP		3	16.972FT.	290.375IN.

16200--16	S 1	2	T	1	81.667FT.C		0	.000FT.	.000IN.
16300--16	S 1	2	B	1	72.000FT.SP		3	24.000FT.	288.000IN.
16400--16	S 1	2	B	2	9.667FT.SP	SP	0	.000FT.	38.666IN.
16500--16	S 1	3	T	1	107.250FT.C		0	.000FT.	.000IN.
16600--16	S 1	3	B	1	107.250FT.SP	SP	5	21.450FT.	42.900IN.
16700--16	S 1	4	T	1	107.250FT.C		0	.000FT.	.000IN.
16800--16	S 1	4	B	1	107.250FT.SP	SP	5	21.450FT.	42.900IN.
16900--16	S 1	5	T	1	69.583FT.C		0	.000FT.	.000IN.
17000--16	S 1	5	B	1	69.583FT.SP	SP	3	23.194FT.	46.388IN.
17100--16	S 2	1	T	1	137.833FT.C		0	.000FT.	.000IN.
17200--16	S 2	1	B	1	96.000FT.SP		4	24.000FT.	48.000IN.
17300--16	S 2	1	B	2	21.833FT.SP		0	.000FT.	43.667IN.
17400--16	S 2	1	B	3	20.000FT.SP	SP	0	.000FT.	40.000IN.
17500--16	S 2	2	T	1	94.000FT.C		0	.000FT.	.000IN.
17600--16	S 2	2	B	1	94.000FT.SP	SP	4	23.500FT.	35.250IN.
17700--16	S 2	3	T	1	67.417FT.C		0	.000FT.	.000IN.
17800--16	S 2	3	B	1	67.417FT.SP	SP	3	22.472FT.	33.708IN.
17900--16	S 4	1	T	1	38.000FT.C		0	.000FT.	.000IN.
18000--16	S 4	1	B	1	38.000FT.SP	SP	2	19.000FT.	.000IN.
18100--16	S 4	2	T	1	38.000FT.C		0	.000FT.	.000IN.
18200--16	S 4	2	B	1	38.000FT.SP	SP	2	19.000FT.	.000IN.
18300--16	S 5	1	T	1	38.000FT.C		0	.000FT.	.000IN.
18400--16	S 5	1	B	1	38.000FT.SP	SP	2	19.000FT.	.000IN.
18500--16	S 5	2	T	1	38.000FT.C		0	.000FT.	.000IN.
18600--16	S 5	2	B	1	38.000FT.SP	SP	2	19.000FT.	.000IN.
18700--16	S 5	3	T	1	38.000FT.C		0	.000FT.	.000IN.
18800--16	S 5	3	B	1	38.000FT.SP	SP	2	19.000FT.	.000IN.

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 1 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

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

DATE 8/18/97
BY

INVENTORY		OPERATING	
LIVE LOAD	RATING	LIVE LOAD	RATING
HS20	HS 18.93	HS20	HS 31.55

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************************
* SPECIAL ATTENTION    *
*      OF LEAD         *
* ENGINEER REQUIRED    *
************************
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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., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID.	S 1
SPAN	4
CRITICAL C.P. DIST.	53.6 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	1339.4
DL EFFECT	563.3
CAPACITY FOR (LL+I)	922.7
ACTUAL (LL+I)	974.9
INVENTORY RATING	HS 18.93

OPERATING RATING SUMMARY --

MEMBER ID.	S 1
SPAN	4
CRITICAL C.P. DIST.	53.6 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	2232.3
DL EFFECT	563.3
CAPACITY FOR (LL+I)	1537.8
ACTUAL (LL+I)	974.9
OPERATING RATING	HS 31.55

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 2 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

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

DATE 8/18/97
BY

INVENTORY		OPERATING	
LIVE LOAD	RATING	LIVE LOAD	RATING
HS20	HS 26.69	HS20	HS 44.48

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************************
* SPECIAL ATTENTION    *
*      OF LEAD         *
* ENGINEER REQUIRED    *
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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., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID.	S 2
SPAN	3
CRITICAL C.P. DIST.	40.5 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	1420.8
DL EFFECT	520.5
CAPACITY FOR (LL+I)	1012.8
ACTUAL (LL+I)	758.9
INVENTORY RATING	HS 26.69

OPERATING RATING SUMMARY --

MEMBER ID.	S 2
SPAN	3
CRITICAL C.P. DIST.	40.5 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	2367.9
DL EFFECT	520.5
CAPACITY FOR (LL+I)	1688.0
ACTUAL (LL+I)	758.9
OPERATING RATING	HS 44.48

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 3 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

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

DATE 8/18/97
BY

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

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************************
*  SPECIAL ATTENTION   *
*      OF LEAD         *
*  ENGINEER REQUIRED   *
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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., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID.	S 3
SPAN	3
CRITICAL C.P. DIST.	.0 FEET
LIVE LOAD DESIGNATION	HS20

	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

OPERATING RATING SUMMARY --

MEMBER ID.	S 3
SPAN	3
CRITICAL C.P. DIST.	.0 FEET
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

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 4 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

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

DATE 8/18/97
BY

INVENTORY		OPERATING	
LIVE LOAD	RATING	LIVE LOAD	RATING
HS20	HS 22.87	HS20	HS 38.12

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************************
* SPECIAL ATTENTION    *
*      OF LEAD         *
* ENGINEER REQUIRED    *
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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., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID.	S 4
SPAN	2
CRITICAL C.P. DIST.	.0 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	336.4
DL EFFECT	-173.8
CAPACITY FOR (LL+I)	-232.1
ACTUAL (LL+I)	-203.0

INVENTORY RATING HS 22.87

OPERATING RATING SUMMARY --

MEMBER ID.	S 4
SPAN	2
CRITICAL C.P. DIST.	.0 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	560.7
DL EFFECT	-173.8
CAPACITY FOR (LL+I)	-386.9
ACTUAL (LL+I)	-203.0

OPERATING RATING HS 38.12

SUMMARY OF RATING CALCULATIONS------STRUCTURE MEMBER S 5 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

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

DATE 8/18/97
BY

INVENTORY		OPERATING	
LIVE LOAD	RATING	LIVE LOAD	RATING
HS20	HS 22.91	HS20	HS 38.18

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************************
* SPECIAL ATTENTION    *
*      OF LEAD         *
* ENGINEER REQUIRED    *
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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., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

INVENTORY RATING SUMMARY --

MEMBER ID.	S 5
SPAN	2
CRITICAL C.P. DIST.	.0 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	336.4
DL EFFECT	-172.4
CAPACITY FOR (LL+I)	-233.0
ACTUAL (LL+I)	-203.4
INVENTORY RATING	HS 22.91

OPERATING RATING SUMMARY --

MEMBER ID.	S 5
SPAN	2
CRITICAL C.P. DIST.	.0 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FT. KIPS)
MEMBER CAPACITY	560.7
DL EFFECT	-172.4
CAPACITY FOR (LL+I)	-388.3
ACTUAL (LL+I)	-203.4
OPERATING RATING	HS 38.18

*** FINAL SUMMARY OF RATING RESULTS FOR --- STRUCTURE ID. G65-005 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

STRUCTURE 9340 D/P STR. ID-- G65-005

INPUT CODING--

DATE 8/18/97

BY

	INVENTORY	OPERATING
LIVE LOAD	HS20	HS20
RATING	HS 18.9	HS 31.5

****
* 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., S02 IS SPANS 9 TO 11 BOTH LINES G-13. S03 IS VOIDED CONC SPAN 12-14. BR 9340A IS SAME AS S03. S04, S05 = TRUSS STRG SPANS 4 & 6 CONT SPANS RESP. NEW MEDIAN JRAIL & SOLID EXT RAIL IN 1998. L.F.RATING

INVENTORY RATING SUMMARY

MEMBER I.D.	S 1
SPAN	4
CRITICAL C.P. DIST.	53.6 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FOOT-KIPS)
MEMBER CAPACITY	1339.4
DL EFFECT	563.3
CAPACITY FOR (LL+I)	922.7
ACTUAL (LL+I)	974.9

INVENTORY RATING HS 18.93

OPERATING RATING SUMMARY

MEMBER I.D.	S 1
SPAN	4
CRITICAL C.P. DIST.	53.6 FEET
LIVE LOAD DESIGNATION	HS20

	MOMENT (FOOT-KIPS)
MEMBER CAPACITY	2232.3
DL EFFECT	563.3
CAPACITY FOR (LL+I)	1537.8
ACTUAL (LL+I)	974.9

OPERATING RATING HS 31.55

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.55	59.75	31.38	57.05	5.47	5.47	7.40	7.40	CONT	16.97	3.32	3.32	.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	.00	.00	3.90	.0	8.51	8.51	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	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	408.7
COM(N=N)				17135.5	.0	31.59	13507.2	1900.0	542.4	542.4				
COM(N=3N)				12969.5	.0	26.20	1948.5	900.3	494.9	494.9				

-- 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.	10.83	10.83	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		1.0000	X	
-BEND		X				X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 66.25 FT-KIPS, MR = -226.94 FT-KIPS, M1/M2 = -.2919 CB = 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.	18702.24	489.37	751.03	489.37	.00	408.74	13153.74	18702.24	360.37	360.37
OPER.	31170.39	815.61	1251.72	815.61	.00	408.74	13153.74	31170.39	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	83.15	94.85	83.15	-3.22	-.88

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .284 FOR +BEND AND = .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.	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	.00	526.6	410.1	6.367	L	362.5	282.3	20.367	.000	6.99	7.04		
		-BEND	137.72	137.7	110.9	95.253	R	103.1	83.0	75.417	.000	6.76	6.76		
														25.13	25.1
OPER.	HS20	+BEND	.00	526.6	410.1	6.367	L	362.5	282.3	20.367	.000	6.99	7.04		
		-BEND	137.72	137.7	110.9	95.253	R	103.1	83.0	75.417	.000	6.76	6.76		
														25.13	25.1

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	2.732	-1.553	.116	-.040	.004	.000
N 2	5.482	-2.122	.178	-.068	.007	.000
T 3	8.265	-2.197	.212	-.077	.009	.000
H 4	11.100	-2.093	.220	-.073	.009	.000
5	8.910	-1.845	.209	-.065	.009	.000
P 6	6.806	-1.485	.182	-.053	.008	.000
O 7	4.803	-1.043	.145	-.039	.006	.000
I 8	2.924	-.546	.099	-.024	.004	.000
N 9	1.330	-.163	.048	-.010	.002	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	266.6	.0	15.1	.0	.4	.0	282.1
NEG AREA	.0	106.5	.0	4.8	.0	.0	111.3

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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				RATING VALUE	SAFE LOAD CAP. (TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	16181.4	596.2	609.0	596.2	30.7262	4.3290	1.1564	4.3290	HS 23.1	41.6
OPER.	HS20	26968.9	993.6	1015.0	993.6	51.2104	7.2150	1.9274	7.2150	HS 38.5	69.4

-- 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	20576.4	711.2	785.5	711.2	39.0718	5.1640	1.4916	5.1640		
OPER.	HS20	34294.0	1185.3	1309.2	1185.3	65.1197	8.6067	2.4859	8.6067		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	168.79	168.79	6.7163	6.7163		
OPER.	HS20	281.31	281.31	11.1938	11.1938		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.55	62.15	31.38	57.05	5.47	5.47	3.91	3.91	CONT	24.00	3.32	3.32	.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	.00	.00	5.63	.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	10071.5	10071.5	17.09	589.3	589.3	589.3	589.3	663.15	663.15	663.15	663.1
COM(N=N)				10071.5	.0	17.09	589.3	.0	589.3	589.3				
COM(N=3N)				10071.5	.0	17.09	589.3	.0	589.3	589.3				

-- 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.	10.83	10.83	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		1.0000	X	
-BEND		X				X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 239.53 FT-KIPS, MR = -923.08 FT-KIPS, M1/M2 = -.2595 CB = 1.0

	--- 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.	815.98	815.98	815.98	815.98	.00	663.15	.00	815.98	360.37	360.37
OPER.	1359.97	1359.97	1359.97	1359.97	.00	663.15	.00	1359.97	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	-170.88	-366.48	-170.88	33.76	19.54

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .215 FOR +BEND AND = .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.	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	.00	34.4	28.3	192.759	R	31.6	26.0	175.483	.000	16.64	.49		
	-BEND	385.71	349.7	277.2	95.253	R	385.7	305.8	75.417	30.550	17.27	17.27		
													62.99	62.9
OPER. HS20	+BEND	.00	34.4	28.3	192.759	R	31.6	26.0	175.483	.000	16.64	.49		
	-BEND	385.71	349.7	277.2	95.253	R	385.7	305.8	75.417	30.550	17.27	17.27		
													62.99	62.9

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.806	-3.883	.291	-.099	.011	.000
N 2	-1.570	-5.305	.446	-.169	.018	.000
T 3	-2.249	-5.491	.529	-.192	.022	.000
H 4	-2.801	-5.232	.551	-.183	.023	.000
5	-3.183	-4.613	.523	-.161	.022	.000
P 6	-3.353	-3.711	.456	-.132	.019	.000
O 7	-3.268	-2.607	.362	-.097	.016	.000
I 8	-2.873	-1.365	.247	-.060	.011	.000
N 9	-1.766	-.408	.119	-.026	.006	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	.0	37.8	.0	1.0	.0	38.8
NEG AREA	111.3	266.4	.0	12.0	.0	.0	389.7

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	1138.4	493.6	1138.4	493.6	33.0791	1.2796	33.0791	1.2796	HS 25.6	46.1
OPER.	HS20	1897.3	822.6	1897.3	822.6	55.1318	2.1327	55.1318	2.1327	HS 42.7	76.8

-- 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	1330.2	685.3	1330.2	685.3	38.6510	1.7767	38.6510	1.7767		
OPER.	HS20	2216.9	1142.2	2216.9	1142.2	64.4184	2.9612	64.4184	2.9612		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	134.34	134.34	2.1328	2.1328		
OPER.	HS20	223.90	223.90	3.5547	3.5547		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

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

-- 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
34.54	.55	62.80	31.38	57.05	5.47	5.47	3.47	3.47	CONT	24.00	3.32	3.32	.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	.00	.00	6.10	.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	734.2
COM(N=N)				27671.3	.0	30.92	7643.1	2433.6	894.9	894.9				
COM(N=3N)				20565.6	.0	25.09	2175.7	1195.5	819.8	819.8				

-- 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.	10.83	10.83	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		1.0000	X	
-BEND		X			X		1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 239.53 FT-KIPS, MR = 459.74 FT-KIPS

	--- 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.	10582.69	905.44	1239.16	905.44	.00	734.28	6989.12	10582.69	360.37	360.37
OPER.	17637.82	1509.07	2065.26	1509.07	.00	734.28	6989.12	17637.82	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	221.12	338.90	221.12	.39	-.34

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .256 FOR +BEND AND = .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.	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	.00	773.8	615.9	105.750	R	561.2	446.7	91.750	.000	2.81	22.65		
		-BEND	81.96	82.0	65.2	11.459	L	54.9	43.7	30.550	.000	2.81	2.81		
														26.33	26.3
OPER.	HS20	+BEND	.00	773.8	615.9	105.750	R	561.2	446.7	91.750	.000	2.81	22.65		
		-BEND	81.96	82.0	65.2	11.459	L	54.9	43.7	30.550	.000	2.81	2.81		
														26.33	26.3

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.336	1.785	.121	-.041	.005	.000
N 2	-.654	4.595	.186	-.070	.008	.000
T 3	-.937	7.920	.220	-.080	.009	.000
H 4	-1.167	11.431	.230	-.076	.009	.000
5	-1.326	15.092	.218	-.067	.009	.000
P 6	-1.397	10.704	.190	-.055	.008	.000
O 7	-1.362	6.400	.151	-.040	.007	.000
I 8	-1.197	2.153	.103	-.025	.005	.000
N 9	-.736	-.170	.050	-.011	.002	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	490.0	15.7	.0	.4	.0	506.2
NEG AREA	46.4	.7	.0	5.0	.0	.0	52.1

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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	7740.0	1241.5	816.0	1241.5	10.0019	15.1467	1.0545	15.1467	HS 21.1	38.0
OPER.	HS20	12900.0	2069.1	1360.0	2069.1	16.6699	25.2446	1.7575	25.2446	HS 35.2	63.3

-- 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	10226.9	1454.2	1107.2	1454.2	13.2157	17.7428	1.4308	17.7428		
OPER.	HS20	17044.9	2423.7	1845.4	2423.7	22.0261	29.5714	2.3847	29.5714		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	166.35	166.29	6.3179	6.3179		
OPER.	HS20	277.25	277.16	10.5299	10.5299		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

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

-- 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
49.76	.38	132.69	48.00	128.00	6.81	6.81	7.74	7.74	CONT	21.45	4.04	4.04	.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	.00	.00	4.85	.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	818.2
COM(N=N)				18175.4	.0	24.88	730.5	.0	730.5	730.5				
COM(N=3N)				18175.4	.0	24.88	730.5	.0	730.5	730.5				

-- 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.	10.83	10.83	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		1.0000	X	
-BEND		X				X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 4.92 FT-KIPS, MR = -1111.43 FT-KIPS, M1/M2 = -.0044 CB = 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.	1011.49	1011.49	1011.49	1011.49	.00	818.20	.00	1011.49	353.26	353.26
OPER.	1685.82	1685.82	1685.82	1685.82	.00	818.20	.00	1685.82	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)
-328.99	-198.88	-328.99	-198.88	36.62	23.07

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .284 FOR +BEND AND = .228 FOR -BEND)

	LIVE LOAD		-- LIVE LOAD -- TRUCK MOMENT REDIS LL+I FT-KIPS	LL+IMP FT-KIPS	LL FT-KIPS	LOC.NO. 1 WHEEL FT.	DIR	LANE MOMENT LL+IMP FT-KIPS	LL FT-KIPS	LOC.CONC. LOAD #1 FT.	LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	.00	33.5	26.1	11.459	L	22.3	17.3	30.550	.000	6.77	.37		
		-BEND	583.56	583.6	475.3	88.250	L	430.7	350.8	116.250	175.483	6.47	6.47		
														62.59	62.5
OPER.	HS20	+BEND	.00	33.5	26.1	11.459	L	22.3	17.3	30.550	.000	6.77	.37		
		-BEND	583.56	583.6	475.3	88.250	L	430.7	350.8	116.250	175.483	6.47	6.47		
														62.59	62.5

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.134	-.714	-.048	.017	-.002	.000
N 2	.262	-1.838	-.074	.028	-.003	.000
T 3	.375	-3.168	-.088	.032	-.004	.000
H 4	.467	-4.572	-.092	.030	-.004	.000
5	.530	-6.037	-.087	.027	-.004	.000
P 6	.559	-7.548	-.076	.022	-.003	.000
O 7	.545	-9.093	-.060	.016	-.003	.000
I 8	.479	-10.661	-.041	.010	-.002	.000
N 9	.294	-8.099	-.020	.004	-.001	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	18.6	.0	.0	2.0	.0	.0	20.6
NEG AREA	.0	422.5	6.3	.0	.2	.0	428.9

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	1328.2	694.8	1328.2	694.8	39.6357	1.1906	39.6357	1.1906	HS 23.8	42.9
OPER.	HS20	2213.7	1157.9	2213.7	1157.9	66.0595	1.9843	66.0595	1.9843	HS 39.7	71.4

-- 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	1565.9	932.5	1565.9	932.5	46.7290	1.5979	46.7290	1.5979		
OPER.	HS20	2609.9	1554.1	2609.9	1554.1	77.8816	2.6632	77.8816	2.6632		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	127.23	127.23	2.0327	2.0327		
OPER.	HS20	212.05	212.05	3.3878	3.3878		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.38	133.67	48.00	128.00	5.81	6.81	7.75	4.95	CONT	21.45	3.46	4.04	.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	.00	.00	5.27	.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	865.3
COM(N=N)				56548.2	.0	42.83	7747.7	3757.7	1320.4	1320.4				
COM(N=3N)				41302.8	.0	33.54	2489.8	1697.0	1231.6	1231.6				

-- 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.	10.83	10.83	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		1.0000		X
-BEND		X				X	1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 244.17 FT-KIPS, MR = 468.07 FT-KIPS, M1/M2 = .5216 CB = 1.0

	--- 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.	10727.57	874.42	1828.26	1334.46	.00	963.78	7116.17	10727.57	353.26	353.26
OPER.	17879.29	1457.36	3047.10	2224.11	.00	963.78	7116.17	17879.29	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	337.99	469.05	337.99	-6.94	-3.05

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .215 FOR +BEND AND = .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	.00	1247.2	1026.3	200.208	R	1056.2	869.1	186.208	.000	.17	26.85		
		-BEND	358.49	298.8	245.9	296.732	R	358.5	295.0	272.008	.000	.17	.17		
														32.61	32.6
OPER.	HS20	+BEND	.00	1247.2	1026.3	200.208	R	1056.2	869.1	186.208	.000	.17	26.85		
		-BEND	358.49	298.8	245.9	296.732	R	358.5	295.0	272.008	.000	.17	.17		
														32.61	32.6

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.054	-.290	4.352	-2.523	.286	.000
N 2	.106	-.745	8.772	-4.303	.462	.000
T 3	.152	-1.285	13.288	-4.901	.549	.000
H 4	.189	-1.854	17.947	-4.658	.578	.000
5	.215	-2.448	22.793	-4.115	.557	.000
P 6	.227	-3.061	17.145	-3.362	.495	.000
O 7	.221	-3.687	11.774	-2.476	.400	.000
I 8	.194	-4.323	6.908	-1.537	.280	.000
N 9	.119	-3.284	3.099	-.652	.144	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	7.5	.0	1137.7	.0	26.1	.0	1171.3
NEG AREA	.0	171.3	.0	306.0	.0	.0	477.3

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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	1358.6	1225.3	1818.7	4.1703	3.7899	.9824	5.0732	HS 19.6	35.4
OPER.	HS20	111111.0	2264.4	2042.1	3031.1	6.9505	6.3165	1.6373	8.4554	HS 32.7	58.9

-- 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	9164.8	1564.1	1654.9	2132.3	7.3482	4.3631	1.3269	5.9480		
OPER.	HS20	15274.7	2606.9	2758.2	3553.8	12.2471	7.2719	2.2115	9.9133		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	157.05	169.03	4.8156	4.8156		
OPER.	HS20	261.75	281.72	8.0259	8.0259		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.38	140.00	48.00	128.00	6.81	6.81	3.03	3.03	CONT	21.45	4.04	4.04	.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	.00	.00	.00	.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	1799.1
COM(N=N)				43268.1	.0	26.25	1648.3	.0	1648.3	1648.3				
COM(N=3N)				43268.1	.0	26.25	1648.3	.0	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.	10.83	10.83	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		1.0000	X	
-BEND		X			X		1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS
-BEND ML = -692.84 FT-KIPS, MR = -2615.51 FT-KIPS

--- 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.	2282.28	2282.28	2282.28	2282.28	.00	1799.19	.00	2282.28	353.26	353.26
OPER.	3803.79	3803.79	3803.79	3803.79	.00	1799.19	.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	-525.58	-1084.71	-525.58	48.44	27.99

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .242 FOR +BEND AND = .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	.00	111.5	89.8	88.250	L	112.6	90.6	116.250	.000	1.44	.29		
		-BEND	1005.	599.6	493.4	296.732	R	1005.2	827.1	272.008	207.658	1.41	1.41		
														62.85	62.8
OPER.	HS20	+BEND	.00	111.5	89.8	88.250	L	112.6	90.6	116.250	.000	1.44	.29		
		-BEND	1005.	599.6	493.4	296.732	R	1005.2	827.1	272.008	207.658	1.41	1.41		
														62.85	62.8

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.025	.135	-1.973	-5.062	.573	.000
N 2	-.049	.347	-3.832	-8.634	.927	.000
T 3	-.071	.599	-5.510	-9.834	1.101	.000
H 4	-.088	.864	-6.914	-9.347	1.159	.000
5	-.100	1.141	-7.953	-8.257	1.117	.000
P 6	-.106	1.426	-8.534	-6.745	.993	.000
O 7	-.103	1.718	-8.567	-4.969	.803	.000
I 8	-.090	2.015	-7.593	-3.084	.563	.000
N 9	-.056	1.530	-4.508	-1.309	.290	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	79.8	.0	.0	52.4	.0	132.2
NEG AREA	3.5	.0	594.0	613.9	.0	.0	1211.4

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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	SAFE
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	VALUE	LOAD CAP.(TONS)
INV.	HS20	3248.5	1316.1	3248.5	1316.1	28.8617	1.3093	28.8617	1.3093	HS 26.2	47.1
OPER.	HS20	5414.1	2193.5	5414.1	2193.5	48.1028	2.1821	48.1028	2.1821	HS 43.6	78.6

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING	SAFE
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	VALUE	LOAD CAP.(TONS)
INV.	HS20	3784.8	1852.4	3784.8	1852.4	33.6269	1.8428	33.6269	1.8428		
OPER.	HS20	6308.0	3087.4	6308.0	3087.4	56.0448	3.0714	56.0448	3.0714		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING	SAFE
		LEFT	RIGHT	LEFT	RIGHT	VALUE	LOAD
INV.	HS20	117.18	117.18	1.8645	1.8645		
OPER.	HS20	195.31	195.31	3.1075	3.1075		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

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

-- 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
49.63	.38	132.33	48.00	128.00	5.81	6.81	7.75	7.79	CONT	21.45	3.46	4.04	.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	.00	.00	4.47	.0	9.00	12.25	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	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	729.6
COM(N=N)				43171.8	.0	44.63	8643.9	3387.5	967.3	967.3				
COM(N=3N)				32762.9	.0	36.40	2477.2	1562.0	900.1	900.1				

-- 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
36000.	4000.	40000.	10.83	10.83	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		1.0000		X
-BEND		X				X	1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 161.18 FT-KIPS, MR = 374.96 FT-KIPS, M1/M2 = .4299 CB = 1.0

	--- 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.	11968.46	824.80	1339.36	967.50	.00	729.67	8048.20	11968.46	353.26	353.26
OPER.	19947.44	1374.67	2232.27	1612.50	.00	729.67	8048.20	19947.44	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)
287.78	275.51	287.78	275.51	4.16	1.88

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .215 FOR +BEND AND = .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	.00	974.9	802.2	279.459	L	800.8	658.9	293.458	.000	1.41	6.96		
		-BEND	215.61	189.6	156.0	179.658	L	215.6	177.4	207.658	.000	1.41	1.41		
														27.17	27.1
OPER.	HS20	+BEND	.00	974.9	802.2	279.459	L	800.8	658.9	293.458	.000	1.41	6.96		
		-BEND	215.61	189.6	156.0	179.658	L	215.6	177.4	207.658	.000	1.41	1.41		
														27.17	27.1

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.009	.047	-.691	1.992	-.842	.000
N 2	-.017	.122	-1.342	4.618	-1.362	.000
T 3	-.025	.210	-1.929	8.428	-1.618	.000
H 4	-.031	.302	-2.420	13.254	-1.703	.000
5	-.035	.399	-2.784	18.561	-1.642	.000
P 6	-.037	.499	-2.988	13.618	-1.459	.000
O 7	-.036	.602	-2.999	9.162	-1.180	.000
I 8	-.032	.705	-2.658	5.202	-.827	.000
N 9	-.019	.536	-1.578	1.987	-.426	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	27.9	.0	823.9	.0	.0	851.8
NEG AREA	1.2	.0	207.9	.0	76.9	.0	286.1

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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	8886.2	1162.8	922.7	1305.5	9.1149	5.3930	.9464	6.0548	HS 18.9	34.1
OPER.	HS20	14810.3	1938.0	1537.8	2175.8	15.1915	8.9883	1.5774	10.0914	HS 31.5	56.8

-- 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	11698.7	1356.6	1237.4	1532.8	11.9999	6.2920	1.2693	7.1093		
OPER.	HS20	19497.9	2261.0	2062.4	2554.7	19.9999	10.4866	2.1155	11.8489		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	159.42	159.42	5.8667	5.8667		
OPER.	HS20	265.71	265.71	9.7779	9.7779		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 5.00

***** SECTION PROPERTIES IN COMPOSITE 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	.38	135.33	48.00	128.00	6.81	6.81	4.95	4.95	CONT	23.19	4.04	4.04	.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	.00	.00	6.43	.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	25.38	1061.2	1061.2	1061.2	1061.2	1166.49	1166.49	1166.49	1166.4
COM(N=N)				26927.7	.0	25.38	1061.2	.0	1061.2	1061.2				
COM(N=3N)				26927.7	.0	25.38	1061.2	.0	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.	10.83	10.83	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		1.0000	X	
-BEND		X				X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = -327.15 FT-KIPS, MR = -1675.40 FT-KIPS, M1/M2 = .1953 CB = 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.	1469.34	1469.34	1469.34	1469.34	.00	1166.49	.00	1469.34	346.28	346.28
OPER.	2448.90	2448.90	2448.90	2448.90	.00	1166.49	.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	-323.83	-627.83	-323.83	37.21	21.60

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION -- 5.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .215 FOR +BEND AND = .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	.00	162.4	133.6	179.658	L	146.2	120.3	207.658	.000	10.82	2.33		
	-BEND	723.74	571.6	463.1	290.181	L	723.7	586.4	304.183	374.917	10.99	10.99		
													58.25	60.2
OPER.	HS20 +BEND	.00	162.4	133.6	179.658	L	146.2	120.3	207.658	.000	10.82	2.33		
	-BEND	723.74	571.6	463.1	290.181	L	723.7	586.4	304.183	374.917	10.99	10.99		
													58.25	60.2

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.008	-.040	.592	-1.679	-2.256	.000
N 2	.015	-.104	1.149	-3.580	-3.650	.000
T 3	.021	-.180	1.652	-5.486	-4.338	.000
H 4	.026	-.259	2.073	-7.045	-4.565	.000
5	.030	-.342	2.385	-8.247	-4.401	.000
P 6	.032	-.428	2.559	-8.919	-3.912	.000
O 7	.031	-.515	2.569	-8.883	-3.162	.000
I 8	.027	-.604	2.277	-7.962	-2.217	.000
N 9	.017	-.459	1.352	-5.442	-1.141	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	1.1	.0	178.1	.0	.0	.0	179.2
NEG AREA	.0	23.9	.0	613.9	206.3	.0	844.1

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	2040.3	898.3	2040.3	898.3	12.5658	1.2413	12.5658	1.2413	HS 24.8	44.7
OPER.	HS20	3400.6	1497.2	3400.6	1497.2	20.9431	2.0688	20.9431	2.0688	HS 41.4	74.5

-- 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	2385.6	1243.6	2385.6	1243.6	14.6924	1.7184	14.6924	1.7184		
OPER.	HS20	3976.1	2072.7	3976.1	2072.7	24.4873	2.8639	24.4873	2.8639		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	124.53	124.53	2.0672	2.0672		
OPER.	HS20	207.55	207.55	3.4453	3.4453		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.38	132.00	48.00	128.00	5.81	6.81	7.75	9.08	CONT	23.19	3.46	4.04	.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	.00	.00	4.27	.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	690.2
COM(N=N)				39647.6	.0	45.12	9045.4	3267.7	878.8	878.8				
COM(N=3N)				30392.0	.0	37.22	2474.1	1517.0	816.6	816.6				

-- 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.	10.83	10.83	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		1.0000		X
-BEND		X				X	1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 175.00 FT-KIPS, MR = -327.15 FT-KIPS, M1/M2 = -.5349 CB = 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.	12524.40	807.73	1216.77	873.98	.00	690.21	8462.04	12524.40	346.28	346.28
OPER.	20874.00	1346.22	2027.94	1456.64	.00	690.21	8462.04	20874.00	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)
207.82	153.42	207.82	153.42	3.45	1.27

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .257 FOR +BEND AND = .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	LOC.NO. 1 WHEEL FT.	DIR	LANE MOMENT LL+IMP FT-KIPS	LANE MOMENT LL FT-KIPS	LOC.CONC. LOAD #1 FT.	LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	MAX SHEAR +V KIPS	MAX SHEAR -V KIPS
INV.	HS20	+BEND	.00	784.4	624.1	402.833	R	594.7	473.1	388.833	.000	8.37	24.47		
		-BEND	225.11	225.1	185.2	290.181	L	207.2	170.5	304.183	.000	8.09	8.09		
														28.21	28.2
OPER.	HS20	+BEND	.00	784.4	624.1	402.833	R	594.7	473.1	388.833	.000	8.37	24.47		
		-BEND	225.11	225.1	185.2	290.181	L	207.2	170.5	304.183	.000	8.09	8.09		
														28.21	28.2

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.003	-.016	.237	-.672	1.881	.000
N 2	.006	-.042	.460	-1.432	4.107	.000
T 3	.008	-.072	.661	-2.194	6.615	.000
H 4	.011	-.104	.829	-2.818	9.307	.000
5	.012	-.137	.954	-3.299	12.156	.000
P 6	.013	-.171	1.024	-3.567	15.135	.000
O 7	.012	-.206	1.028	-3.553	11.260	.000
I 8	.011	-.242	.911	-3.185	7.463	.000
N 9	.007	-.184	.541	-2.177	3.719	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.4	.0	71.2	.0	498.5	.0	570.2
NEG AREA	.0	9.6	.0	245.6	.0	.0	255.1

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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				RATING VALUE	SAFE LOAD CAP. (TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	10254.5	1024.5	944.1	1090.7	13.0728	4.5509	1.2036	4.8452	HS 24.1	43.3
OPER.	HS20	17090.8	1707.5	1573.5	1817.9	21.7880	7.5849	2.0060	8.0754	HS 40.1	72.2

-- 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	13197.7	1214.3	1230.1	1296.1	16.8250	5.3941	1.5681	5.7576		
OPER.	HS20	21996.2	2023.8	2050.1	2160.2	28.0416	8.9902	2.6135	9.5960		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	162.65	156.99	5.7650	5.7650		
OPER.	HS20	271.09	261.65	9.6083	9.6083		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 1
C.P. LOCATION - 6.00

***** SECTION PROPERTIES IN COMPOSITE 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	.38	132.00	48.00	128.00	5.81	6.81	7.75	9.08	CONT	23.19	3.46	4.04	.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	.00	.00	4.27	.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	690.2
COM(N=N)				39647.6	.0	45.12	9045.4	3267.7	878.8	878.8				
COM(N=3N)				30392.0	.0	37.22	2474.1	1517.0	816.6	816.6				

-- 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.	10.83	10.83	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		1.0000		X
-BEND		X			X		1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

--- 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.	12524.40	807.73	1216.77	873.98	.00	690.21	8462.04	12524.40	346.28	346.28
OPER.	20874.00	1346.22	2027.94	1456.64	.00	690.21	8462.04	20874.00	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)
.00	.00	.00	.00	-18.38	-12.28

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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
51.25	.63	82.00	48.00	76.80	7.69	9.69	6.15	4.84	CONT	24.00	4.62	5.77	.00	49.88	.9971	.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	.00	.00	.00	1.2	20.00	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	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	1755.3
COM(N=N)				97628.0	.0	37.90	7312.0	4626.5	2576.1	2576.1				
COM(N=3N)				68608.1	.0	28.97	3078.7	2284.3	2368.6	2368.6				

-- 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.	9.69	9.69	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		1.0000		X
-BEND		X			X		1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS
-BEND ML = 1781.05 FT-KIPS, MR = 2004.13 FT-KIPS

--- 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.	12655.32	2202.04	4458.56	3447.44	.00	1983.43	6039.68	12655.32	870.00	870.00
OPER.	21092.21	3670.06	7430.94	5745.73	.00	1983.43	6039.68	21092.21	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)
1558.99	844.20	1558.99	844.20	1.73	1.89

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .190 FOR +BEND AND = .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	.00	1717.5	1443.0	41.134	L	1637.9	1376.1	55.133	.000	6.10	2.40		
	-BEND	346.85	346.9	282.4	194.033	R	274.6	223.6	175.433	.000	6.29	6.29		
													32.92	31.9
OPER.	HS20 +BEND	.00	1717.5	1443.0	41.134	L	1637.9	1376.1	55.133	.000	6.10	2.40		
	-BEND	346.85	346.9	282.4	194.033	R	274.6	223.6	175.433	.000	6.29	6.29		
													32.92	31.9

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	7.518	-2.295	.381	.000	.000	.000
N 2	15.079	-4.147	.577	.000	.000	.000
T 3	22.726	-5.416	.672	.000	.000	.000
H 4	30.502	-5.717	.700	.000	.000	.000
5	24.666	-5.118	.671	.000	.000	.000
P 6	19.045	-4.157	.594	.000	.000	.000
O 7	13.682	-3.064	.479	.000	.000	.000
I 8	8.619	-1.923	.335	.000	.000	.000
N 9	3.974	-.843	.172	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	2009.8	.0	30.9	.0	.0	.0	2040.7
NEG AREA	.0	307.2	.0	.0	.0	.0	307.2

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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				RATING VALUE	SAFE LOAD CAP. (TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	6076.5	3644.0	2692.8	4874.8	3.5380	10.5057	1.5679	14.0542	HS 31.4	56.4
OPER.	HS20	10127.6	6073.3	4488.0	8124.6	5.8967	17.5095	2.6131	23.4237	HS 52.3	94.1

-- 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	9050.5	4161.4	3740.6	5681.5	5.2696	11.9976	2.1779	16.3801		
OPER.	HS20	15084.2	6935.7	6234.3	9469.2	8.7827	19.9961	3.6299	27.3001		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	399.37	399.37	12.1300	12.1300		
OPER.	HS20	665.61	665.61	20.2166	20.2166		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.63	83.20	48.00	76.80	9.69	9.69	4.84	4.84	CONT	23.50	5.77	5.77	.00	48.84	.9980	.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	.00	.00	.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	2360.0
COM(N=N)				55786.7	.0	26.00	2145.6	.0	2145.6	2145.6				
COM(N=3N)				55786.7	.0	26.00	2145.6	.0	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.	9.69	9.69	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		1.0000	X	
-BEND		X			X		1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = -1118.31 FT-KIPS, MR = -3464.56 FT-KIPS

	--- 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.	3713.61	3713.61	3713.61	3721.20	.00	2360.00	.00	3713.61	870.00	870.00
OPER.	6189.35	6189.35	6189.35	6202.00	.00	2360.00	.00	6189.35	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)
-1611.39	-665.10	-1611.39	-665.10	55.44	27.92

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .260 FOR +BEND AND = .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	.00	108.7	86.3	279.543	R	76.3	60.6	258.800	.000	5.77	3.98		
		-BEND	1188.	852.5	706.0	194.033	R	1188.1	983.9	175.433	82.700	5.53	5.53		
														60.67	62.6
OPER.	HS20	+BEND	.00	108.7	86.3	279.543	R	76.3	60.6	258.800	.000	5.77	3.98		
		-BEND	1188.	852.5	706.0	194.033	R	1188.1	983.9	175.433	82.700	5.53	5.53		
														60.67	62.6

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-1.879	-5.739	.951	.000	.000	.000
N 2	-3.652	-10.368	1.443	.000	.000	.000
T 3	-5.209	-13.541	1.681	.000	.000	.000
H 4	-6.444	-14.293	1.751	.000	.000	.000
5	-7.251	-12.795	1.678	.000	.000	.000
P 6	-7.520	-10.394	1.485	.000	.000	.000
O 7	-7.145	-7.659	1.198	.000	.000	.000
I 8	-6.019	-4.808	.838	.000	.000	.000
N 9	-3.848	-2.108	.431	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	.0	77.2	.0	.0	.0	77.2
NEG AREA	674.9	768.0	.0	.0	.0	.0	1443.0

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	5079.5	2347.7	5079.5	2347.7	46.7110	1.9761	46.7110	1.9761	HS 39.5	71.1
OPER.	HS20	8465.8	3912.9	8465.8	3912.9	77.8516	3.2935	77.8516	3.2935	HS 65.9	118.6

-- 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	5952.2	3220.4	5952.2	3220.4	54.7363	2.7106	54.7363	2.7106		
OPER.	HS20	9920.3	5367.4	9920.3	5367.4	91.2271	4.5177	91.2271	4.5177		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	351.53	351.53	5.6144	5.6144		
OPER.	HS20	585.88	585.88	9.3573	9.3573		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.63	60.40	36.00	57.60	5.69	6.69	7.58	6.69	CONT	23.50	3.46	4.04	.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	.00	.00	5.18	.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	619.2
COM(N=N)				29883.1	.0	33.76	7485.2	2544.9	885.2	885.2				
COM(N=3N)				21806.3	.0	27.00	2029.4	1179.0	807.5	807.5				

-- 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.	10.83	10.83	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		1.0000		X
-BEND		X			X		1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS
-BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

--- 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.	10364.15	670.04	1225.69	822.91	.00	619.23	7001.30	10364.15	469.80	469.80
OPER.	17273.59	1116.73	2042.82	1371.51	.00	619.23	7001.30	17273.59	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)
-39.11	109.20	-39.11	109.20	13.47	5.03

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .228 FOR +BEND AND = .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.	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	.00	696.0	566.7	170.834	L	526.4	428.6	184.833	.000	5.63	3.77		
		-BEND	202.21	157.5	132.4	96.916	R	202.2	169.9	82.700	.000	5.45	5.45		
														30.11	30.1
OPER.	HS20	+BEND	.00	696.0	566.7	170.834	L	526.4	428.6	184.833	.000	5.63	3.77		
		-BEND	202.21	157.5	132.4	96.916	R	202.2	169.9	82.700	.000	5.45	5.45		
														30.11	30.1

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.633	1.239	-.686	.000	.000	.000
N 2	-1.230	2.900	-1.040	.000	.000	.000
T 3	-1.754	5.194	-1.211	.000	.000	.000
H 4	-2.170	8.743	-1.262	.000	.000	.000
5	-2.442	13.707	-1.209	.000	.000	.000
P 6	-2.533	9.990	-1.071	.000	.000	.000
O 7	-2.406	6.724	-.863	.000	.000	.000
I 8	-2.027	3.891	-.604	.000	.000	.000
N 9	-1.296	1.572	-.311	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	507.2	.0	.0	.0	.0	507.2
NEG AREA	227.3	.0	55.7	.0	.0	.0	283.0

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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				RATING VALUE	SAFE LOAD CAP. (TONS)
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND		
INV.	HS20	10485.4	712.1	1188.8	865.0	15.0642	3.5216	1.7079	4.2776	HS 34.2	61.5
OPER.	HS20	17475.7	1186.8	1981.4	1441.6	25.1070	5.8693	2.8466	7.1293	HS 56.9	102.5

-- 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	12921.0	869.6	1476.8	1058.4	18.5633	4.3003	2.1218	5.2340		
OPER.	HS20	21535.0	1449.3	2461.4	1763.9	30.9389	7.1672	3.5363	8.7233		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	205.73	205.73	6.8315	6.8315		
OPER.	HS20	342.88	342.88	11.3858	11.3858		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

***** SECTION PROPERTIES IN COMPOSITE 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	.63	62.00	36.00	57.60	6.69	6.69	4.86	4.86	CONT	23.50	4.04	4.04	.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	.00	.00	6.94	.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	15881.9	15881.9	19.38	819.7	819.7	819.7	819.7	921.99	921.99	921.99	921.9
COM(N=N)				15881.9	.0	19.38	819.7	.0	819.7	819.7				
COM(N=3N)				15881.9	.0	19.38	819.7	.0	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.	10.83	10.83	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		1.0000	X	
-BEND		X				X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 24.32 FT-KIPS, MR = -1060.56 FT-KIPS, M1/M2 = -.0229 CB = 1.0

	--- 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.	1134.98	1134.98	1134.98	1134.98	.00	921.99	.00	1134.98	469.80	469.80
OPER.	1891.64	1891.64	1891.64	1891.64	.00	921.99	.00	1891.64	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)
-309.54	-192.27	-309.54	-192.27	33.02	19.27

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .190 FOR +BEND AND = .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	.00	152.7	128.3	96.916	R	165.1	138.7	82.700	.000	9.80	.76		
	-BEND	558.75	459.8	369.9	175.635	L	558.7	449.5	194.233	258.800	10.23	10.23		
													58.58	60.0
OPER. HS20	+BEND	.00	152.7	128.3	96.916	R	165.1	138.7	82.700	.000	9.80	.76		
	-BEND	558.75	459.8	369.9	175.635	L	558.7	449.5	194.233	258.800	10.23	10.23		
													58.58	60.0

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.614	-1.184	-2.323	.000	.000	.000
N 2	1.192	-2.633	-3.524	.000	.000	.000
T 3	1.700	-4.271	-4.103	.000	.000	.000
H 4	2.104	-5.821	-4.275	.000	.000	.000
5	2.367	-6.791	-4.096	.000	.000	.000
P 6	2.455	-7.226	-3.627	.000	.000	.000
O 7	2.332	-7.094	-2.924	.000	.000	.000
I 8	1.965	-6.211	-2.046	.000	.000	.000
N 9	1.256	-4.148	-1.052	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	220.3	.0	.0	.0	.0	.0	220.3
NEG AREA	.0	426.6	188.6	.0	.0	.0	615.1

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

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					
		TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	TOP +BEND	TOP -BEND	BOTT +BEND	BOTT -BEND	RATING VALUE	SAFE LOAD CAP. (TONS)
INV.	HS20	1436.1	833.9	1436.1	833.9	8.6980	1.4924	8.6980	1.4924	HS 29.8	53.7
OPER.	HS20	2393.4	1389.8	2393.4	1389.8	14.4966	2.4874	14.4966	2.4874	HS 49.7	89.5

-- 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	1702.8	1100.6	1702.8	1100.6	10.3134	1.9698	10.3134	1.9698		
OPER.	HS20	2838.0	1834.4	2838.0	1834.4	17.1891	3.2830	17.1891	3.2830		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	185.46	185.46	3.0866	3.0866		
OPER.	HS20	309.09	309.09	5.1444	5.1444		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

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

-- 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
38.25	.63	61.20	36.00	57.60	5.69	6.69	5.69	5.35	CONT	22.47	3.46	4.04	.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	.00	.00	5.92	.0	12.00	17.50	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	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	741.9
COM(N=N)				34291.0	.0	33.42	7097.5	2725.5	1026.1	1026.1				
COM(N=3N)				24931.0	.0	26.59	2137.5	1284.2	937.7	937.7				

-- 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.	10.83	10.83	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		1.0000		X
-BEND		X				X	1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 24.32 FT-KIPS, MR = 342.30 FT-KIPS, M1/M2 = .0710 CB = 1.0

	--- 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.	9827.29	817.83	1420.76	995.50	.00	741.94	6506.83	9827.29	469.80	469.80
OPER.	16378.81	1363.06	2367.94	1659.16	.00	741.94	6506.83	16378.81	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)
331.76	188.70	331.76	188.70	-1.06	-.43

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

DATE 8/18/97

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

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .260 FOR +BEND AND = .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	.00	758.9	602.4	286.283	R	582.2	462.1	272.283	.000	6.91	24.54		
		-BEND	181.73	181.7	148.0	175.635	L	148.2	120.7	194.233	.000	6.74	6.74		
														28.08	28.0
OPER.	HS20	+BEND	.00	758.9	602.4	286.283	R	582.2	462.1	272.283	.000	6.91	24.54		
		-BEND	181.73	181.7	148.0	175.635	L	148.2	120.7	194.233	.000	6.74	6.74		
														28.08	28.0

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.245	-.474	1.768	.000	.000	.000
N 2	.477	-1.053	3.984	.000	.000	.000
T 3	.680	-1.708	6.449	.000	.000	.000
H 4	.841	-2.328	9.077	.000	.000	.000
5	.947	-2.717	11.845	.000	.000	.000
P 6	.982	-2.890	14.729	.000	.000	.000
O 7	.933	-2.838	10.965	.000	.000	.000
I 8	.786	-2.484	7.271	.000	.000	.000
N 9	.502	-1.659	3.624	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	88.1	.0	470.0	.0	.0	.0	558.1
NEG AREA	.0	170.6	.0	.0	.0	.0	170.6

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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	1130.1	1012.8	1307.8	6.9365	6.2186	1.3345	7.1962	HS 26.7	48.0
OPER.	HS20	111111.0	1883.5	1688.0	2179.6	11.5608	10.3643	2.2242	11.9937	HS 44.5	80.1

-- 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	9368.8	1322.3	1346.7	1541.7	12.3452	7.2761	1.7745	8.4835		
OPER.	HS20	15614.7	2203.8	2244.4	2569.5	20.5753	12.1269	2.9575	14.1392		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	215.94	217.73	7.6899	7.6899		
OPER.	HS20	359.89	362.88	12.8164	12.8164		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 2
C.P. LOCATION - 4.00

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

-- 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
38.25	.63	61.20	36.00	57.60	5.69	6.69	5.69	5.35	CONT	22.47	3.46	4.04	.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	.00	.00	5.92	.0	12.00	17.50	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	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	741.9
COM(N=N)				34291.0	.0	33.42	7097.5	2725.5	1026.1	1026.1				
COM(N=3N)				24931.0	.0	26.59	2137.5	1284.2	937.7	937.7				

-- 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.	10.83	10.83	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		1.0000		X
-BEND		X			X		1.0000		X

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS
-BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

--- 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.	9827.29	817.83	1420.76	995.50	.00	741.94	6506.83	9827.29	469.80	469.80
OPER.	16378.81	1363.06	2367.94	1659.16	.00	741.94	6506.83	16378.81	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)
.00	.00	.00	.00	-23.54	-13.56

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 08/18/97

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 2.00

***** 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	.000	.000
				-BEND	528.0	25344.0	6.03	22.00	2.00	1.50	1.00	.000	.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	368.8	131.8	368.8
OPERATING	131.8	368.8	131.8	368.8
POST VEH1	.0	.0	.0	.0
POST VEH2	.0	.0	.0	.0
POST VEH3	.0	.0	.0	.0
POST SPEC	.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	.000	.000	.000	.000	.000	.000
E 1	-1.310	-2.507	.241	.000	.000	.000
N 2	-2.553	-4.192	.407	.000	.000	.000
T 3	-3.623	-5.028	.504	.000	.000	.000
H 4	-4.431	-5.178	.542	.000	.000	.000
5	-4.890	-4.725	.530	.000	.000	.000
P 6	-4.915	-3.860	.474	.000	.000	.000
O 7	-4.491	-2.778	.386	.000	.000	.000
I 8	-3.572	-1.671	.271	.000	.000	.000
N 9	-2.058	-.712	.140	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000
POS AREA	.0	.0	10.2	.0	.0	.0
NEG AREA	147.0	178.3	.0	.0	.0	.0

AREA TOTALS: POS AREA 10.2; NEG AREA 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 -BEN F-KP
INVENTORY	134.8	96.3	134.8	96.
OPERATING	224.6	160.4	224.6	160.
VEH. 1	.0	.0	.0	.
VEH. 2	.0	.0	.0	.
VEH. 3	.0	.0	.0	.
SPECIAL	.0	.0	.0	.

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .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	138.750	R	.0	2.9	2.2	116.000				
	-BEND	55.6	43.3	89.250	R	.0	68.1	53.1	69.433	27.700	1.414	50.9	HS 28.3
OPER HS20	+BEND	4.6	3.5	138.750	R	.0	2.9	2.2	116.000				
	-BEND	55.6	43.3	89.250	R	.0	68.1	53.1	69.433	27.700	2.357	84.8	HS 47.1
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST SPEC	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 08/18/97

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 2.50

***** 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	.000	.000
				-BEND	231.1	11093.8	2.54	22.00	4.39	1.50	.98	.000	.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	.000	.000	.000	.000	.000	.000
E 1	-.390	.993	-.266	.000	.000	.000
N 2	-.760	2.289	-.448	.000	.000	.000
T 3	-1.078	3.970	-.555	.000	.000	.000
H 4	-1.318	6.059	-.597	.000	.000	.000
5	-1.455	8.641	-.583	.000	.000	.000
P 6	-1.462	5.920	-.522	.000	.000	.000
O 7	-1.336	3.732	-.424	.000	.000	.000
I 8	-1.063	2.023	-.298	.000	.000	.000
N 9	-.612	.803	-.154	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000
POS AREA	.0	200.3	.0	.0	.0	.0
NEG AREA	43.7	.0	11.2	.0	.0	.0

AREA TOTALS: POS AREA 200.3; NEG AREA 55.0

***** 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	271.0	155.8	271.0	155.8
OPERATING	271.0	155.8	271.0	155.8
POST VEH1	.0	.0	.0	.0
POST VEH2	.0	.0	.0	.0
POST VEH3	.0	.0	.0	.0
POST SPEC	.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 -BEN F-KP
INVENTORY	94.9	102.1	94.9	102.
OPERATING	158.2	170.2	158.2	170.
VEH. 1	.0	.0	.0	.
VEH. 2	.0	.0	.0	.
VEH. 3	.0	.0	.0	.
SPECIAL	.0	.0	.0	.

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .273 FOR +BEND AND = .292 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	70.0	55.0	89.249	R	.0	49.3	38.8	75.250		1.356	48.8	HS 27.1
	-BEND	15.4	11.9	4.466	L	.0	10.8	8.4	27.700	.000			
OPER HS20	+BEND	70.0	55.0	89.249	R	.0	49.3	38.8	75.250		2.259	81.3	HS 45.2
	-BEND	15.4	11.9	4.466	L	.0	10.8	8.4	27.700	.000			
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST SPEC	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 08/18/97

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 3.00

***** 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	.000	.000
				-BEND	528.0	25344.0	5.07	22.00	2.00	1.50	1.00	.000	.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	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
POST VEH2	.0	.0	.0	.0	.0	.0
POST VEH3	.0	.0	.0	.0	.0	.0
POST SPEC	.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	.000	.000	.000	.000	.000	.000
E 1	.530	-1.324	-.773	.000	.000	.000
N 2	1.034	-2.864	-1.302	.000	.000	.000
T 3	1.467	-4.483	-1.614	.000	.000	.000
H 4	1.794	-5.970	-1.736	.000	.000	.000
5	1.980	-7.077	-1.695	.000	.000	.000
P 6	1.990	-7.566	-1.519	.000	.000	.000
O 7	1.818	-7.207	-1.234	.000	.000	.000
I 8	1.446	-5.916	-.868	.000	.000	.000
N 9	.833	-3.498	-.448	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000
POS AREA	59.5	.0	.0	.0	.0	.0
NEG AREA	.0	267.0	32.6	.0	.0	.0

AREA TOTALS: POS AREA 59.5; NEG AREA 299.7

***** 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 -BEN F-KP
INVENTORY	122.3	83.4	122.3	83.
OPERATING	203.9	139.0	203.9	139.
VEH. 1	.0	.0	.0	.
VEH. 2	.0	.0	.0	.
VEH. 3	.0	.0	.0	.
SPECIAL	.0	.0	.0	.

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .292 FOR +BEND AND = .296 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	20.9	16.2	4.466	L	.0	13.0	10.1	27.700				
	-BEND	82.7	63.8	61.248	L	.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	13.0	10.1	27.700				
	-BEND	82.7	63.8	61.248	L	.0	63.4	48.9	81.067	116.000	1.681	60.5	HS 33.6
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST SPEC	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 08/18/97

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 3.60

***** 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	.000	.000
				-BEND	528.0	25344.0	5.07	22.00	2.00	1.50	1.00	.000	.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	.000	.000	.000	.000	.000	.000
E 1	.212	-.530	.857	.000	.000	.000
N 2	.414	-1.145	1.813	.000	.000	.000
T 3	.587	-1.793	2.854	.000	.000	.000
H 4	.718	-2.388	3.972	.000	.000	.000
5	.792	-2.831	5.155	.000	.000	.000
P 6	.796	-3.026	6.392	.000	.000	.000
O 7	.727	-2.883	4.756	.000	.000	.000
I 8	.578	-2.367	3.153	.000	.000	.000
N 9	.333	-1.399	1.571	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000
POS AREA	23.8	.0	89.0	.0	.0	.0
NEG AREA	.0	106.8	.0	.0	.0	.0

AREA TOTALS: 112.8 / 106.8

***** 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
POST VEH2	.0	.0	.0	.0
POST VEH3	.0	.0	.0	.0
POST SPEC	.0	.0	.0	.0

***** 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 -BEN F-KP
INVENTORY	48.9	156.9	48.9	156.
OPERATING	81.4	261.5	81.4	261.
VEH. 1	.0	.0	.0	.
VEH. 2	.0	.0	.0	.
VEH. 3	.0	.0	.0	.
SPECIAL	.0	.0	.0	.

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .273 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	41.9	32.3	135.832	R	.0	33.0	25.4	121.833		1.165	41.9	HS 23.3
	-BEND	32.5	25.5	61.248	L	.0	21.3	16.7	81.067	.000			
OPER HS20	+BEND	41.9	32.3	135.832	R	.0	33.0	25.4	121.833		1.942	69.9	HS 38.8
	-BEND	32.5	25.5	61.248	L	.0	21.3	16.7	81.067	.000			
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST SPEC	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 08/18/97

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S03
C.P. LOCATION 1.40

***** 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	.000	.000
				-BEND	231.1	11093.8	1.93	22.00	4.39	1.50	.98	.000	.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	.000	.000	.000	.000	.000	.000
E 1	2.246	-1.003	.097	.000	.000	.000
N 2	4.519	-1.677	.163	.000	.000	.000
T 3	6.861	-2.011	.202	.000	.000	.000
H 4	9.308	-2.071	.217	.000	.000	.000
5	7.277	-1.890	.212	.000	.000	.000
P 6	5.421	-1.544	.190	.000	.000	.000
O 7	3.744	-1.111	.154	.000	.000	.000
I 8	2.265	-.668	.108	.000	.000	.000
N 9	1.023	-.285	.056	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000
POS AREA	197.0	.0	4.1	.0	.0	.0
NEG AREA	.0	71.3	.0	.0	.0	.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	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
POST VEH2	.0	.0	.0	.0	.0	.0
POST VEH3	.0	.0	.0	.0	.0	.0
POST SPEC	.0	.0	.0	.0	.0	.0

***** 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 -BEN F-KP
INVENTORY	96.4	84.3	96.4	84.
OPERATING	160.7	140.5	160.7	140.
VEH. 1	.0	.0	.0	.
VEH. 2	.0	.0	.0	.
VEH. 3	.0	.0	.0	.
SPECIAL	.0	.0	.0	.

AREA TOTALS 201.0 71.3

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .292 FOR +BEND AND = .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	51.8	40.1	18.467		1.271	45.7	HS 25.4
	-BEND	22.1	17.3	89.250	R	.0	14.4	11.3	69.433	.000			
OPER HS20	+BEND	75.9	58.7	4.467	L	.0	51.8	40.1	18.467		2.118	76.2	HS 42.4
	-BEND	22.1	17.3	89.250	R	.0	14.4	11.3	69.433	.000			
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST SPEC	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									

DETAIL DATA AT MOMENT CHECK POINT FOR
COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 08/18/97

D/P STRUCTURE I.D. G65-005
MEMBER I.D.--S02
C.P. LOCATION 4.00

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

	H IN.	GROSS AREA SQ.IN.	---NET AREA--- + BEND SQ.IN.	- BEND SQ.IN.	IX + BEND IN**4	IX - BEND IN**4	C (BOT) IN.	SECTION MODULUS TOP + BEND IN**3	TOP - BEND IN**3	BOTTOM + BEND IN**3	BOTTOM - BEND IN**3	HYBRID +BEND R= 1.0000	SECTI -BEN 1.00
NON-COM	.00	.00	.00	.00	.0	.0	.00	.0	.0	.0	.0	FY= 36000	360
COM (N=N)					34291.0		33.42	7097.5		1026.1			
COM (N=3N)					24931.0		26.59	2137.5		937.7			

(AS)C = .0 SQ. IN. , (DS)C = .0 SQ. IN.BRACE LENGTH = .00 ,YBAR = .00

***** INFLUENCE LINE (SIMPLE SPAN)

***** ULTIMATE STRENGTH ***** MOMENT CAPACITY

	M1/M2 TOP	M1/M2 BOTTOM	TOP + BEND FT-KIPS	TOP - BEND FT-KIPS	BOTTOM + BEND FT-KIPS	BOTTOM - BEND FT-KIPS
INVENTORY	1.0	.0				
OPERATING	.0					
POST VEH1	.0					
POST VEH2	.0					
POST VEH3	.0					
POST SPEC	.0					

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.000	.000	.000	.000	.000	.000
N 2	.000	.000	.000	.000	.000	.000
T 3	.000	.000	.000	.000	.000	.000
H 4	.000	.000	.000	.000	.000	.000
5	.000	.000	.000	.000	.000	.000
P 6	.000	.000	.000	.000	.000	.000
O 7	.000	.000	.000	.000	.000	.000
I 8	.000	.000	.000	.000	.000	.000
N 9	.000	.000	.000	.000	.000	.000
T 0	.000	.000	.000	.000	.000	.000
POS AREA	.0	.0	.0	.0	.0	.0
NEG AREA	.0	.0	.0	.0	.0	.0

***** DL MOMENT EFFECT

	DL FT-KIPS	SDL FT-KIPS
AREA TOTALS	.0	.0

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

	TOP +BEND F-KPS	TOP -BEND F-KPS	BOT +BEND F-KPS	BOT -BEN F-KP
INVENTORY	9827.3	-1130.1	1420.8	-1307.
OPERATING	16378.8	-1883.5	2367.9	-2179.
VEH. 1	.0	.0	.0	.
VEH. 2	.0	.0	.0	.
VEH. 3	.0	.0	.0	.
SPECIAL	.0	.0	.0	.

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .260 FOR +BEND AND = .260 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	.0	.0	264.508	L	.0	.0	.0	.000		3.433	123.6	HS 68.7
	-BEND	.0	.0	.000	L	.0	.0	.0	.000	.000			
OPER HS20	+BEND	.0	.0	264.508	L	.0	.0	.0	.000		5.721	206.0	HS114.4
	-BEND	.0	.0	.000	L	.0	.0	.0	.000	.000			
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									
POST SPEC	+BEND	.0	.0	.000							.000	.0	
	-BEND	.0	.0	.000									

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION - 1.40

***** SECTION PROPERTIES IN COMPOSITE 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	5.6	8	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				10472.2	.0	26.82	108097.6	1334.6	390.4	390.4				
COM(N=3N)				7733.5	.0	21.83	1520.6	602.5	354.2	354.2				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = .00 FT-KIPS, MR = 38.85 FT-KIPS, M1/M2 = 1.0000 CB = 1.0

	--- 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. ---M-(SDL)	V (DL)	V (SDL)
83.23	61.18	83.23	61.18	-.21	.32

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION -- 1.40

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	353.20	353.2	271.7	1.200	L	247.4	190.3	15.200	.000	5.11	8.26		
		-BEND	77.68	77.7	59.8	73.600	R	49.2	37.8	53.200	.000	5.11	5.11		
														22.44	22.4
OPER.	HS20	+BEND	353.20	353.2	271.7	1.200	L	247.4	190.3	15.200	.000	5.11	8.26		
		-BEND	77.68	77.7	59.8	73.600	R	49.2	37.8	53.200	.000	5.11	5.11		
														22.44	22.4

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	2.093	-.741	.195	-.040	.000	.000
N 2	4.195	-1.213	.318	-.058	.000	.000
T 3	6.316	-1.455	.379	-.065	.000	.000
H 4	8.467	-1.506	.390	-.066	.000	.000
5	6.855	-1.405	.361	-.063	.000	.000
P 6	5.292	-1.192	.302	-.055	.000	.000
O 7	3.787	-.906	.226	-.044	.000	.000
I 8	2.349	-.586	.143	-.031	.000	.000
N 9	1.038	-.271	.064	-.016	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	153.5	.0	9.0	.0	.0	.0	162.5
NEG AREA	.0	35.2	.0	1.7	.0	.0	36.9

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
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	665.0	423.1	665.0	423.1	1.8828	5.4463	1.8828	5.4463		
OPER.	HS20	1108.3	705.1	1108.3	705.1	3.1380	9.0772	3.1380	9.0772		

-- 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	160019.0	502.1	546.9	502.1	453.0490	6.4641	1.5484	6.4641	HS 31.0	55.7
OPER.	HS20	266698.3	836.9	911.5	836.9	755.0816	10.7735	2.5807	10.7735	HS 51.6	92.9

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	119.87	119.87	5.3426	5.3426		
OPER.	HS20	199.78	199.78	8.9043	8.9043		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION - 2.00

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

-- 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 12.48 FT-KIPS, MR = -376.80 FT-KIPS, M1/M2 = -.0331 CB = 1.0

	--- 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-115.83	-58.01	-115.83	-58.01	15.22	9.25

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION -- 2.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	50.12	50.1	38.6	111.600	R	31.0	23.9	91.200	.000	40.03	5.58		
		-BEND	202.96	203.0	156.1	31.601	L	188.2	144.7	53.200	22.800	40.03	40.03		
														53.44	53.4
OPER.	HS20	+BEND	50.12	50.1	38.6	111.600	R	31.0	23.9	91.200	.000	40.03	5.58		
		-BEND	202.96	203.0	156.1	31.601	L	188.2	144.7	53.200	22.800	40.03	40.03		
														53.44	53.4

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.469	-1.852	.489	-.101	.000	.000
N 2	-.913	-3.032	.796	-.145	.000	.000
T 3	-1.310	-3.637	.949	-.162	.000	.000
H 4	-1.634	-3.764	.975	-.165	.000	.000
5	-1.862	-3.513	.901	-.156	.000	.000
P 6	-1.969	-2.980	.756	-.137	.000	.000
O 7	-1.932	-2.265	.566	-.110	.000	.000
I 8	-1.726	-1.464	.358	-.077	.000	.000
N 9	-1.206	-.677	.160	-.039	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	.0	22.6	.0	.0	.0	22.6
NEG AREA	49.5	88.1	.0	4.2	.0	.0	141.7

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION -- 2.00

***** 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	856.0	232.1	856.0	232.1	17.0773	1.1436	17.0773	1.1436	HS 22.9	41.2
OPER.	HS20	1426.6	386.9	1426.6	386.9	28.4621	1.9061	28.4621	1.9061	HS 38.1	68.6

-- 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	519.8	311.2	519.8	311.2	10.3702	1.5332	10.3702	1.5332		
OPER.	HS20	866.3	518.6	866.3	518.6	17.2837	2.5553	17.2837	2.5553		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	105.26	105.26	1.9697	1.9697		
OPER.	HS20	175.43	175.43	3.2828	3.2828		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION - 2.50

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

-- 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	2544.9	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	1179.0	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X	X			1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS
-BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

	--- 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.	751.66	384.71	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	641.19	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
38.44	29.89	38.44	29.89	1.02	.00

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION -- 2.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	234.41	234.4	180.3	70.999	R	174.9	134.5	57.000	.000	5.58	16.97		
		-BEND	55.85	55.8	43.0	111.600	R	45.9	35.3	91.200	.000	5.58	5.58		
														18.50	18.5
OPER.	HS20	+BEND	234.41	234.4	180.3	70.999	R	174.9	134.5	57.000	.000	5.58	16.97		
		-BEND	55.85	55.8	43.0	111.600	R	45.9	35.3	91.200	.000	5.58	5.58		
														18.50	18.5

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.171	.715	-.544	.113	.000	.000
N 2	-.333	1.706	-.887	.161	.000	.000
T 3	-.477	2.969	-1.057	.181	.000	.000
H 4	-.595	4.498	-1.086	.184	.000	.000
5	-.679	6.289	-1.004	.174	.000	.000
P 6	-.718	4.537	-.842	.153	.000	.000
O 7	-.704	3.036	-.630	.122	.000	.000
I 8	-.629	1.783	-.399	.085	.000	.000
N 9	-.440	.773	-.179	.044	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	100.0	.0	4.6	.0	.0	104.6
NEG AREA	18.0	.0	25.2	.0	.0	.0	43.2

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
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	710.7	425.7	710.7	425.7	3.0316	7.6228	3.0316	7.6228		
OPER.	HS20	1184.4	709.5	1184.4	709.5	5.0527	12.7047	5.0527	12.7047		

-- 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	374.5	516.1	374.5	516.1	1.5975	9.2416	1.5975	9.2416	HS 32.0	57.5
OPER.	HS20	624.1	860.2	624.1	860.2	2.6625	15.4027	2.6625	15.4027	HS 53.3	95.9

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	119.33	119.33	6.4500	6.4500		
OPER.	HS20	198.89	198.89	10.7500	10.7500		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION - 3.00

***** SECTION PROPERTIES IN COMPOSITE 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 12.48 FT-KIPS, MR = -335.65 FT-KIPS, M1/M2 = -.0372 CB = 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-77.22	-58.02	-77.22	-58.02	13.19	9.25

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION -- 3.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	29.35	29.3	22.6	149.600	R	26.1	20.0	129.200	.000	1.60	3.62		
		-BEND	200.41	176.7	135.9	82.400	R	200.4	154.2	91.200	60.800	1.60	1.60		
														52.35	52.3
OPER.	HS20	+BEND	29.35	29.3	22.6	149.600	R	26.1	20.0	129.200	.000	1.60	3.62		
		-BEND	200.41	176.7	135.9	82.400	R	200.4	154.2	91.200	60.800	1.60	1.60		
														52.35	52.3

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.127	-.517	-1.578	.327	.000	.000
N 2	.247	-1.155	-2.569	.468	.000	.000
T 3	.355	-1.826	-3.062	.524	.000	.000
H 4	.443	-2.440	-3.147	.534	.000	.000
5	.504	-2.910	-2.910	.504	.000	.000
P 6	.534	-3.147	-2.440	.443	.000	.000
O 7	.524	-3.062	-1.826	.355	.000	.000
I 8	.468	-2.569	-1.155	.247	.000	.000
N 9	.327	-1.577	-.517	.127	.000	.000
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	13.4	.0	.0	13.4	.0	.0	26.8
NEG AREA	.0	73.0	73.0	.0	.0	.0	145.9

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 4
C.P. LOCATION -- 3.00

***** 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	832.8	255.3	832.8	255.3	28.3780	1.2738	28.3780	1.2738	HS 25.5	45.9
OPER.	HS20	1388.0	425.5	1388.0	425.5	47.2967	2.1229	47.2967	2.1229	HS 42.5	76.4

-- 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	496.6	334.3	496.6	334.3	16.9226	1.6682	16.9226	1.6682		
OPER.	HS20	827.7	557.2	827.7	557.2	28.2044	2.7804	28.2044	2.7804		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR			
		LEFT	RIGHT	LEFT	RIGHT	RATING VALUE	SAFE LOAD
INV.	HS20	106.47	106.47	2.0338	2.0338		
OPER.	HS20	177.46	177.46	3.3897	3.3897		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION - 1.40

***** SECTION PROPERTIES IN COMPOSITE 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	5.6	8	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				10472.2	.0	26.82	108097.6	1334.6	390.4	390.4				
COM(N=3N)				7733.5	.0	21.83	1520.6	602.5	354.2	354.2				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = .00 FT-KIPS, MR = 39.33 FT-KIPS, M1/M2 = 1.0000 CB = 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
83.83	61.18	83.83	61.18	-.17	.32

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 1.40

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	353.25	353.2	271.7	1.200	L	248.1	190.8	15.200	.000	5.12	8.26		
		-BEND	77.89	77.9	59.9	73.600	R	49.9	38.4	53.200	.000	5.12	5.12		
														22.44	22.4
OPER.	HS20	+BEND	353.25	353.2	271.7	1.200	L	248.1	190.8	15.200	.000	5.12	8.26		
		-BEND	77.89	77.9	59.9	73.600	R	49.9	38.4	53.200	.000	5.12	5.12		
														22.44	22.4

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	2.093	-.742	.199	-.053	.014	-.003
N 2	4.195	-1.215	.325	-.087	.023	-.004
T 3	6.317	-1.457	.390	-.104	.027	-.005
H 4	8.467	-1.509	.404	-.108	.028	-.005
5	6.856	-1.409	.378	-.101	.026	-.004
P 6	5.293	-1.197	.321	-.086	.022	-.004
O 7	3.788	-.911	.244	-.065	.016	-.003
I 8	2.350	-.590	.158	-.042	.010	-.002
N 9	1.038	-.273	.073	-.019	.005	-.001
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	153.5	.0	9.5	.0	.6	.0	163.6
NEG AREA	.0	35.3	.0	2.5	.0	.1	38.0

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
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	664.7	423.4	664.7	423.4	1.8815	5.4363	1.8815	5.4363		
OPER.	HS20	1107.8	705.7	1107.8	705.7	3.1359	9.0606	3.1359	9.0606		

-- 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	159860.5	502.5	546.3	502.5	452.5442	6.4514	1.5466	6.4514	HS 30.9	55.7
OPER.	HS20	266434.1	837.5	910.5	837.5	754.2404	10.7523	2.5776	10.7523	HS 51.6	92.8

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	119.85	119.85	5.3410	5.3410		
OPER.	HS20	199.75	199.75	8.9016	8.9016		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION - 2.00

***** SECTION PROPERTIES IN COMPOSITE 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 7.98 FT-KIPS, MR = -375.80 FT-KIPS, M1/M2 = -.0212 CB = 1.0

	--- 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-114.34	-58.01	-114.34	-58.01	15.03	9.25

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 2.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	52.17	52.2	40.1	111.600	R	33.3	25.7	91.200	.000	40.08	5.80		
		-BEND	203.44	203.4	156.5	31.601	L	190.0	146.1	53.200	22.800	40.08	40.08		
														53.48	53.4
OPER.	HS20	+BEND	52.17	52.2	40.1	111.600	R	33.3	25.7	91.200	.000	40.08	5.80		
		-BEND	203.44	203.4	156.5	31.601	L	190.0	146.1	53.200	22.800	40.08	40.08		
														53.48	53.4

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.468	-1.854	.497	-.133	.035	-.007
N 2	-.912	-3.036	.814	-.218	.057	-.010
T 3	-1.308	-3.643	.976	-.261	.068	-.012
H 4	-1.632	-3.773	1.011	-.270	.070	-.012
5	-1.860	-3.524	.944	-.252	.065	-.011
P 6	-1.967	-2.992	.802	-.214	.054	-.010
O 7	-1.930	-2.276	.610	-.163	.041	-.008
I 8	-1.725	-1.474	.395	-.105	.026	-.006
N 9	-1.205	-.683	.183	-.049	.012	-.003
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	.0	23.7	.0	1.6	.0	25.3
NEG AREA	49.4	88.4	.0	6.3	.0	.3	144.4

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 2.00

***** 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	855.1	233.0	855.1	233.0	16.3916	1.1453	16.3916	1.1453	HS 22.9	41.2
OPER.	HS20	1425.1	388.3	1425.1	388.3	27.3193	1.9089	27.3193	1.9089	HS 38.2	68.7

-- 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	518.9	312.1	518.9	312.1	9.9471	1.5339	9.9471	1.5339		
OPER.	HS20	864.8	520.1	864.8	520.1	16.5785	2.5566	16.5785	2.5566		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	105.38	105.38	1.9705	1.9705		
OPER.	HS20	175.63	175.63	3.2842	3.2842		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION - 2.50

***** SECTION PROPERTIES IN COMPOSITE 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	2544.9	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	1179.0	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X	X			1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

--- 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.	751.66	384.71	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	641.19	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
36.21	29.89	36.21	29.89	.82	.00

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 2.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	234.95	234.9	180.7	70.999	R	177.0	136.2	57.000	.000	5.80	16.92		
		-BEND	58.12	58.1	44.7	111.600	R	48.5	37.3	91.200	.000	5.80	5.80		
														18.57	18.5
OPER.	HS20	+BEND	234.95	234.9	180.7	70.999	R	177.0	136.2	57.000	.000	5.80	16.92		
		-BEND	58.12	58.1	44.7	111.600	R	48.5	37.3	91.200	.000	5.80	5.80		
														18.57	18.5

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.171	.717	-.554	.148	-.039	.008
N 2	-.334	1.711	-.906	.243	-.064	.012
T 3	-.479	2.977	-1.088	.291	-.076	.013
H 4	-.597	4.508	-1.126	.301	-.078	.013
5	-.681	6.301	-1.052	.281	-.072	.012
P 6	-.720	4.550	-.893	.238	-.060	.011
O 7	-.706	3.049	-.679	.181	-.045	.009
I 8	-.631	1.794	-.440	.117	-.029	.006
N 9	-.441	.780	-.204	.054	-.013	.003
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	100.3	.0	7.0	.0	.3	107.6
NEG AREA	18.1	.0	26.4	.0	1.8	.0	46.3

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
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	712.0	424.4	712.0	424.4	3.0305	7.3013	3.0305	7.3013		
OPER.	HS20	1186.7	707.3	1186.7	707.3	5.0508	12.1689	5.0508	12.1689		

-- 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	375.8	514.8	375.8	514.8	1.5996	8.8568	1.5996	8.8568	HS 32.0	57.6
OPER.	HS20	626.4	858.0	626.4	858.0	2.6660	14.7613	2.6660	14.7613	HS 53.3	96.0

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	119.45	119.45	6.4341	6.4341		
OPER.	HS20	199.09	199.09	10.7235	10.7235		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION - 3.00

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

-- 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	.0	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 15.95 FT-KIPS, MR = -347.83 FT-KIPS, M1/M2 = -.0459 CB = 1.0

	--- 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-83.16	-58.02	-83.16	-58.02	13.93	9.25

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 3.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	45.01	45.0	34.6	149.600	R	36.8	28.3	129.200	.000	1.53	5.56		
	-BEND	206.65	182.7	140.6	69.602	L	206.7	159.0	91.200	60.800	1.53	1.53		
													52.89	52.8
OPER.	HS20 +BEND	45.01	45.0	34.6	149.600	R	36.8	28.3	129.200	.000	1.53	5.56		
	-BEND	206.65	182.7	140.6	69.602	L	206.7	159.0	91.200	60.800	1.53	1.53		
													52.89	52.8

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.125	-.511	-1.604	.429	-.113	.023
N 2	.244	-1.141	-2.626	.703	-.184	.034
T 3	.351	-1.804	-3.151	.843	-.220	.038
H 4	.437	-2.410	-3.264	.872	-.226	.038
5	.498	-2.874	-3.047	.814	-.209	.036
P 6	.527	-3.108	-2.588	.691	-.175	.032
O 7	.517	-3.025	-1.968	.525	-.131	.025
I 8	.462	-2.538	-1.274	.339	-.083	.018
N 9	.323	-1.558	-.590	.157	-.037	.009
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	13.2	.0	.0	20.4	.0	1.0	34.6
NEG AREA	.0	72.1	76.4	.0	5.2	.0	153.8

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 3.00

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

-- RATING FACTOR FOR MOMENT --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR - MOMENT				RATING	SAFE
		TOP	TOP	BOTT	BOTT	TOP		BOTT		VALUE	LOAD
		+BEND	-BEND	+BEND	-BEND	+BEND	-BEND	+BEND	-BEND		CAP.(TONS)
INV.	HS20	836.4	251.7	836.4	251.7	18.5831	1.2181	18.5831	1.2181	HS 24.4	43.9
OPER.	HS20	1393.9	419.5	1393.9	419.5	30.9718	2.0301	30.9718	2.0301	HS 40.6	73.1

-- RATING FACTOR FOR SERVICEABILITY --

		AVAILABLE (LL+I) CAPACITY (FT-KIPS)				RATING FACTOR -SERVICEABILITY				RATING	SAFE
		TOP	TOP	BOTT	BOTT	TOP		BOTT		VALUE	LOAD
		+BEND	-BEND	+BEND	-BEND	+BEND	-BEND	+BEND	-BEND		CAP.(TONS)
INV.	HS20	500.2	330.8	500.2	330.8	11.1136	1.6006	11.1136	1.6006		
OPER.	HS20	833.6	551.3	833.6	551.3	18.5226	2.6677	18.5226	2.6677		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING	SAFE
		LEFT	RIGHT	LEFT	RIGHT	VALUE	LOAD
INV.	HS20	106.03	106.03	2.0046	2.0046		
OPER.	HS20	176.72	176.72	3.3411	3.3411		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION - 3.50

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

-- 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	2725.5	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	1284.2	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X	X			1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

--- 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.	751.66	384.71	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	641.19	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
46.61	29.89	46.61	29.89	-.27	.00

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 3.50

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	244.04	244.0	187.7	108.999	R	185.6	142.7	95.000	.000	5.56	17.75		
		-BEND	60.54	60.5	46.6	149.600	R	54.8	42.2	129.200	.000	5.56	5.56		
														17.98	17.9
OPER.	HS20	+BEND	244.04	244.0	187.7	108.999	R	185.6	142.7	95.000	.000	5.56	17.75		
		-BEND	60.54	60.5	46.6	149.600	R	54.8	42.2	129.200	.000	5.56	5.56		
														17.98	17.9

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	.046	-.187	.809	-.577	.152	-.032
N 2	.089	-.418	1.861	-.945	.248	-.045
T 3	.128	-.660	3.156	-1.134	.296	-.051
H 4	.160	-.882	4.694	-1.173	.304	-.052
5	.182	-1.052	6.474	-1.095	.281	-.049
P 6	.193	-1.137	4.697	-.929	.236	-.043
O 7	.189	-1.107	3.161	-.706	.176	-.034
I 8	.169	-.929	1.866	-.456	.112	-.024
N 9	.118	-.570	.813	-.211	.050	-.012
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	4.8	.0	104.6	.0	7.0	.0	116.5
NEG AREA	.0	26.4	.0	27.5	.0	1.3	55.1

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

DETAIL DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 3.50

***** 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	705.8	430.6	705.8	430.6	2.8920	7.1129	2.8920	7.1129		
OPER.	HS20	1176.3	717.7	1176.3	717.7	4.8201	11.8547	4.8201	11.8547		

-- 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	369.6	521.0	369.6	521.0	1.5145	8.6062	1.5145	8.6062	HS 30.3	54.5
OPER.	HS20	616.0	868.4	616.0	868.4	2.5241	14.3437	2.5241	14.3437	HS 50.5	90.9

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR		RATING VALUE	SAFE LOAD
		LEFT	RIGHT	LEFT	RIGHT		
INV.	HS20	120.11	120.11	6.6782	6.6782		
OPER.	HS20	200.18	200.18	11.1303	11.1303		

DETAIL DATA AT MOMENT CHECK POINT FOR BARS-PC RELEASE 5.5

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION - 4.00

***** SECTION PROPERTIES IN COMPOSITE 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
26.92	.49	54.94	25.40	51.84	4.76	4.76	6.26	6.26	CONT	19.00	2.89	2.89	.00	78.98	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	.00	.00	3.15	.0	7.60	7.60	12.45

-- 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	27.65	27.65	27.65	3270.4	3270.4	13.46	243.0	243.0	243.0	243.0	277.85	277.85	277.85	277.8
COM(N=N)				3270.4	.0	13.46	243.0	2725.5	243.0	243.0				
COM(N=3N)				3270.4	.0	13.46	243.0	1284.2	243.0	243.0				

-- 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.	10.83	10.83	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			1.0000		X
-BEND			X			X	1.0000	X	

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

+BEND ML = .00 FT-KIPS, MR = .00 FT-KIPS

-BEND ML = 15.96 FT-KIPS, MR = -361.91 FT-KIPS, M1/M2 = -.0441 CB = 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.	751.66	336.42	751.66	336.42	833.54	277.85	1350.74	1628.59	259.87	259.87
OPER.	1252.76	560.70	1252.76	560.70	833.54	277.85	1350.74	1628.59	259.87	259.87

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

-- DEAD LOAD --

M (DL)	M (SDL)	REDIS. M-(DL)	REDIS. M-(SDL)	V (DL)	V (SDL)
-93.55	-58.02	-93.55	-58.02	14.48	9.25

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 4.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = .300 FOR +BEND AND = .300 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	42.87	42.9	33.0	187.600	R	38.6	29.7	167.200	.000	1.94	5.33		
		-BEND	210.34	180.8	139.1	120.400	R	210.3	161.8	129.200	98.800	1.94	1.94		
														52.81	52.8
OPER.	HS20	+BEND	42.87	42.9	33.0	187.600	R	38.6	29.7	167.200	.000	1.94	5.33		
		-BEND	210.34	180.8	139.1	120.400	R	210.3	161.8	129.200	98.800	1.94	1.94		
														52.81	52.8

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

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	.000	.000	.000	.000	.000	.000
E 1	-.034	.137	-.579	-1.584	.418	-.087
N 2	-.066	.306	-1.252	-2.593	.681	-.124
T 3	-.094	.484	-1.937	-3.110	.811	-.139
H 4	-.117	.646	-2.549	-3.219	.834	-.141
5	-.134	.771	-3.004	-3.004	.771	-.134
P 6	-.141	.834	-3.219	-2.549	.646	-.117
O 7	-.139	.811	-3.110	-1.937	.484	-.094
I 8	-.124	.681	-2.593	-1.252	.306	-.066
N 9	-.087	.418	-1.584	-.579	.137	-.034
T 0	.000	.000	.000	.000	.000	.000

							AREA TOTALS
POS AREA	.0	19.3	.0	.0	19.3	.0	38.7
NEG AREA	3.6	.0	75.3	75.3	.0	3.6	157.8

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

X-DIST (FT.)	.00	.00	.00	POS AREA =	.00
Y-ORDINATE	.00	.00	.00		

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 4.00

***** 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	842.6	245.5	842.6	245.5	19.6563	1.1671	19.6563	1.1671	HS 23.3	42.0
OPER.	HS20	1404.3	409.1	1404.3	409.1	32.7605	1.9451	32.7605	1.9451	HS 38.9	70.0

-- 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	506.4	324.5	506.4	324.5	11.8139	1.5429	11.8139	1.5429		
OPER.	HS20	844.0	540.9	844.0	540.9	19.6898	2.5715	19.6898	2.5715		

-- RATING FACTOR FOR SHEAR --

		AVAILABLE CAPACITY (KIPS)		RATING FACTOR - SHEAR			
		LEFT	RIGHT	LEFT	RIGHT	RATING VALUE	SAFE LOAD
INV.	HS20	105.70	105.70	2.0014	2.0014		
OPER.	HS20	176.17	176.17	3.3357	3.3357		

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

DATE 8/18/97

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.	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	SHEAR LEFT KIPS	SHEAR RIGHT KIPS
INV.	HS20	+BEND	0.00	1247.2	1026.3	200.208	R	1056.2	869.1	186.208	0.000	-0.17	-26.85	32.61	32.61
		-BEND	-358.49	298.8	245.9	296.735	R	-358.5	-295.0	272.008	0.000	-0.17	-0.17		
OPER	HS20	+BEND	0.00	1247.2	1026.3	200.208	R	1056.2	869.1	186.208	0.000	-0.17	-26.85	32.61	32.61
		-BEND	-358.49	298.8	245.9	296.735	R	-358.5	-295.0	272.008	0.000	-0.17	-0.17		
SPEC 2	SPE2	+BEND	0.00	1763.3	1450.9	156.207						-9.69	-26.70	-32.51	-32.51
		-BEND	-516.30	516.3	424.8	250.554						-9.69	-9.69		
SPEC 3	SPE3	+BEND	0.00	1771.9	1458.0	144.208						-9.64	-30.33	-34.53	-34.53
		-BEND	-513.49	513.5	422.5	250.558						-9.64	-9.64		
SPEC 4	SPE4	+BEND	0.00	2089.2	1719.1	208.206						-10.54	-6.91	-43.98	-43.98
		-BEND	-561.70	561.7	462.2	251.283						-10.54	-10.54		

$\times \frac{4}{4} = 1641$

$M_A = 2042^{1k}$

1-1-2

LIVE LOAD DATA AT MOMENT CHECK POINT FOR

COMPOSITE STEEL AND CONCRETE FLEXURAL MEMBER - LOAD FACTOR RATING

DATE 8/18/97

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

MEMBER I.D. -- S 1

C.P. LOCATION -- 3.50

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

		-- RATING FACTOR FOR -- MOMENT				-- RATING FACTOR FOR -- SERVICEABILITY				-- RATING FACTOR FOR -- SHEAR		RATING VALUE	SAFE LOAD CAP.(TONS)
		TOP		BOTT		TOP		BOTT		LEFT	RIGHT		
		+BEND	-BEND	+BEND	-BEND	+BEND	-BEND	+BEND	-BEND				
INV.	HS20	4.170	3.790	0.982	5.073	7.348	4.363	1.327	5.948	4.816	4.816	HS 19.6	35.4
OPER	HS20	6.950	6.316	1.637	8.455	12.247	7.272	2.211	9.913	8.026	8.026	HS 32.7	58.9
SPEC 2	SPE2	6.280	4.386	1.158	5.871	8.663	5.049	1.564	6.883	8.053	8.053		119.9
SPEC 3	SPE3	6.249	4.410	1.153	5.903	8.621	5.077	1.557	6.921	7.580	7.580		146.9
SPEC 4	SPE4	5.300	4.031	0.977	5.396	7.311	4.641	1.320	6.327	5.952	5.952		77.7

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 4.00

***** LIVE LOAD CALCULATIONS (IMPACT FACTOR = 0.300 FOR +BEND AND = 0.300 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	LOC.CONC. LOAD #1 FT.	LOC.CONC. LOAD #2 FT.	FIXED SHEAR +V KIPS	FIXED SHEAR -V KIPS	SHEAR LEFT KIPS	SHEAR RIGHT KIPS
INV.	HS20	+BEND	42.87	42.9	33.0	187.600	R	38.6	29.7	167.200	0.000	1.94	-5.33	52.81	52.81
		-BEND	-210.34	180.8	139.1	107.602	L	-210.3	-161.8	129.200	98.800	1.94	1.94		
OPER	HS20	+BEND	42.87	42.9	33.0	187.600	R	38.6	29.7	167.200	0.000	1.94	-5.33	52.81	52.81
		-BEND	-210.34	180.8	139.1	107.602	L	-210.3	-161.8	129.200	98.800	1.94	1.94		
SPEC 2	SPE2	+BEND	52.11	52.1	40.1	153.399						52.50	-6.49	-64.81	64.81
		-BEND	-233.90	233.9	179.9	136.401						52.50	52.50		
SPEC 3	SPE3	+BEND	43.78	43.8	33.7	276.400						48.80	-5.45	-64.65	64.66
		-BEND	-347.72	347.7	267.5	140.599						48.80	48.80		
SPEC 4	SPE4	+BEND	45.74	45.7	35.2	155.800						44.41	-5.69	-69.42	69.41
		-BEND	-416.98	417.0	320.8	80.800						44.41	44.41		

469.1 1/x Avail

1-1 (2)

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

DATE 8/18/97

D/P STRUCTURE I.D. = G65-005
MEMBER I.D. -- S 5
C.P. LOCATION -- 4.00

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

		MOMENT TOP +BEND	MOMENT TOP -BEND	MOMENT BOTT +BEND	MOMENT BOTT -BEND	SERVICEABILITY TOP +BEND	SERVICEABILITY TOP -BEND	SERVICEABILITY BOTT +BEND	SERVICEABILITY BOTT -BEND	SHEAR LEFT	SHEAR RIGHT	RATING VALUE	SAFE LOAD CAP.(TONS)
INV.	HS20	19.656	1.167	19.656	1.071	11.814	1.543	11.814	1.543	2.001	2.001	HS 21.4	38.5
OPER	HS20	32.760	1.945	32.760	1.784	19.690	2.572	19.690	2.572	3.336	3.336	HS 35.7	64.2
SPEC 2	SPE2	26.947	1.749	26.947	1.605	16.196	2.312	16.196	2.312	2.718	2.718		166.1
SPEC 3	SPE3	32.076	1.177	32.076	1.079	19.279	1.556	19.279	1.556	2.724	2.724		137.6
SPEC 4	SPE4	30.704	0.981	30.704	0.900	18.454	1.297	18.454	1.297	2.538	2.538		71.6