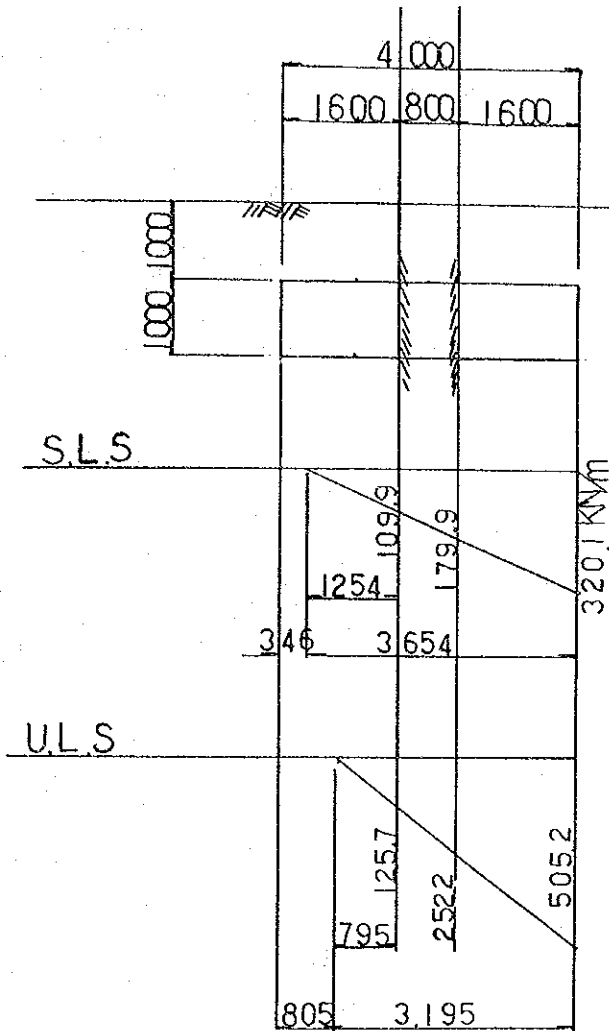


U H U R U - P I E R

Calculation of action force for each section

Longitudinal direction - Seismic state



Surcharge

for S.L.S

$$\omega = (23.6 \times 1.00 + 18.6 \times 1.00) = 42.200 \text{ KN/m}$$

for U.L.S

$$\omega = (23.6 \times 1.00 + 18.6 \times 1.00) \times 1.380 = 58.236 \text{ KN/m}$$

Calculation of bending moment and shearing force

a) for S.L.S.

$$M = \frac{1.60^2}{6} (2 \times 320.1 + 179.9) - \frac{1.60^2}{2} \times 42.200 = 295.4 \text{ KNm}$$

$$S = \frac{1.60}{2} (320.1 + 179.9) - 1.60 \times 42.200 = 332.5 \text{ KN}$$

$$M = \frac{1.254^2}{6} \times 109.9 - \frac{1.60^2}{2} \times 42.200 = -25.2 \text{ KNm}$$

$$S = \frac{1.254}{2} \times 109.9 - 1.60 \times 42.200 = 1.4 \text{ KN}$$

b) for U.L.S.

$$M = \frac{1.60^2}{6} ( 2 \times 505.2 + 252.2 ) - \frac{1.60^2}{2} \times 58.236 = 464.1 \text{ kNm}$$

$$S = \frac{1.60}{2} ( 505.2 + 252.2 ) - 1.60 \times 58.236 = 512.8 \text{ kN}$$

$$M = \frac{0.795^2}{6} \times 125.7 - \frac{1.60^2}{2} \times 58.236 = -61.3 \text{ kNm}$$

$$S = \frac{0.795}{2} \times 125.7 - 1.60 \times 58.236 = -43.3 \text{ kN}$$

U H U R U - P I E R

Longitudinal direction - Seismic state

1) Calculation of stress for S.L.S.

$$\text{section } b = 100 \text{ cm } \quad h = 100 \quad d = 94.0 \quad d' = 6.0 \text{ cm}$$

$$A_s = Y_{20} - 150 \text{ t c} = 3.1416 / 0.15 = 20.94 \text{ cm}^2$$

$$P = \frac{A_s}{bd} \times 100 = \frac{20.94}{100 \times 94.0} \times 100 = 0.223 \%$$

$$x = \frac{0.80 \times 41000 \times 20.94}{\frac{1}{2} \times 0.50 \times 2500 \times 100} \approx 14.1 \text{ cm}$$

$$Z = 94.0 - \frac{14.1}{3} = 89.3 \text{ cm} \leq 0.95 \times 94.0 = 89.3 \text{ cm}$$

$$M_{RS} = 0.80 \times 41000 \times 20.94 \times 89.3 \times 10^{-5} = 613.3 \text{ kNm} > M_S = 295.4 \text{ kN}$$

$$M_{RC} = \frac{1}{2} \times 0.50 \times 2500 \times 100 \times 14.1 \times 89.3 \times 10^{-5} = 787.0 \text{ kNm} > M_S = 295.4 \text{ kN} \quad \text{OK}$$

2) Calculation of stress for U.L.S.

$$x = \frac{0.87 \times 41000 \times 20.94}{0.40 \times 2500 \times 100} = 9.4 \text{ cm}$$

$$Z = 94.0 - \frac{9.4}{2} = 89.3 \text{ cm} < 0.95 \times 94.0 = 89.3 \text{ cm} \quad \text{OK}$$

$$M_{RS} = 0.87 \times 41000 \times 20.94 \times 89.3 \times 10^{-5} = 667.0 \text{ kNm} > M_u = 464.1 \text{ kN}$$

$$M_{RC} = 0.40 \times 2500 \times 100 \times 9.4 \times 89.3 \times 10^{-5} = 839.4 \text{ kNm} > M_u = 464.1 \text{ kN} \quad \text{OK}$$

$$V_c = \frac{512.8 \times 10^3}{100 \times 94.0} = 54.6 \text{ N/cm}^2$$

$$< V_{ca} = 35.0 \times \frac{0.223}{0.25} \times 2 = 62.4 \text{ N/cm}^2 \quad \text{OK}$$

U H U R U   -   P E I R

Crossing direction

1) Calculation for Beam

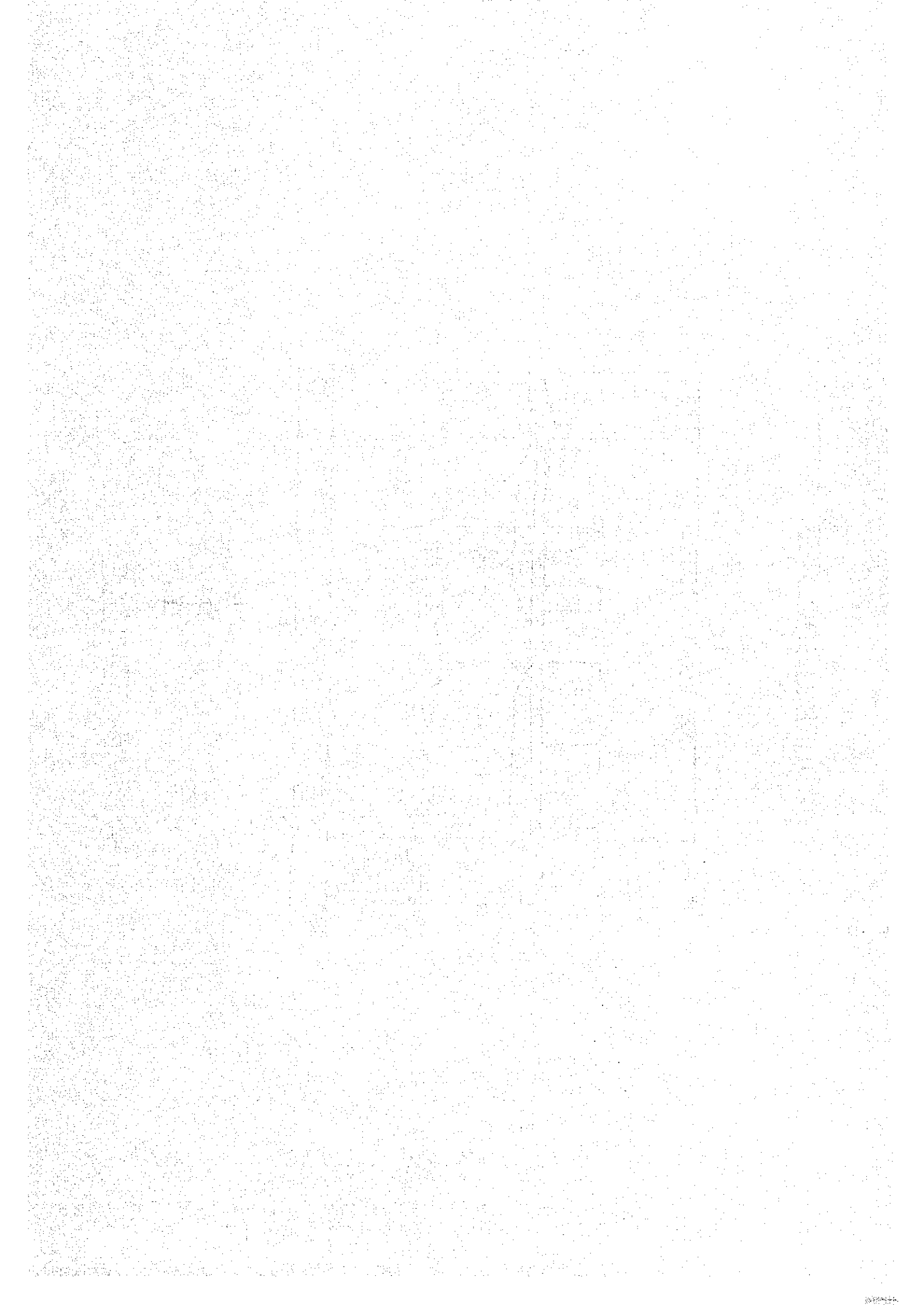
$$\begin{aligned} \text{Mu.max} &= 1455.1 \text{ KNm} \\ \text{Mu.min} &= -1323.5 \end{aligned} \quad \begin{aligned} &< M_{RU} = 1540.0 \text{ KNm} \quad \dots \text{ from pair of Mombasa} \\ &\text{OK} \quad \quad \quad (A_S = Y_{25} - 12^{NO} = 58.90 \text{ cm}^2) \end{aligned}$$

2) Calculation for Pillar

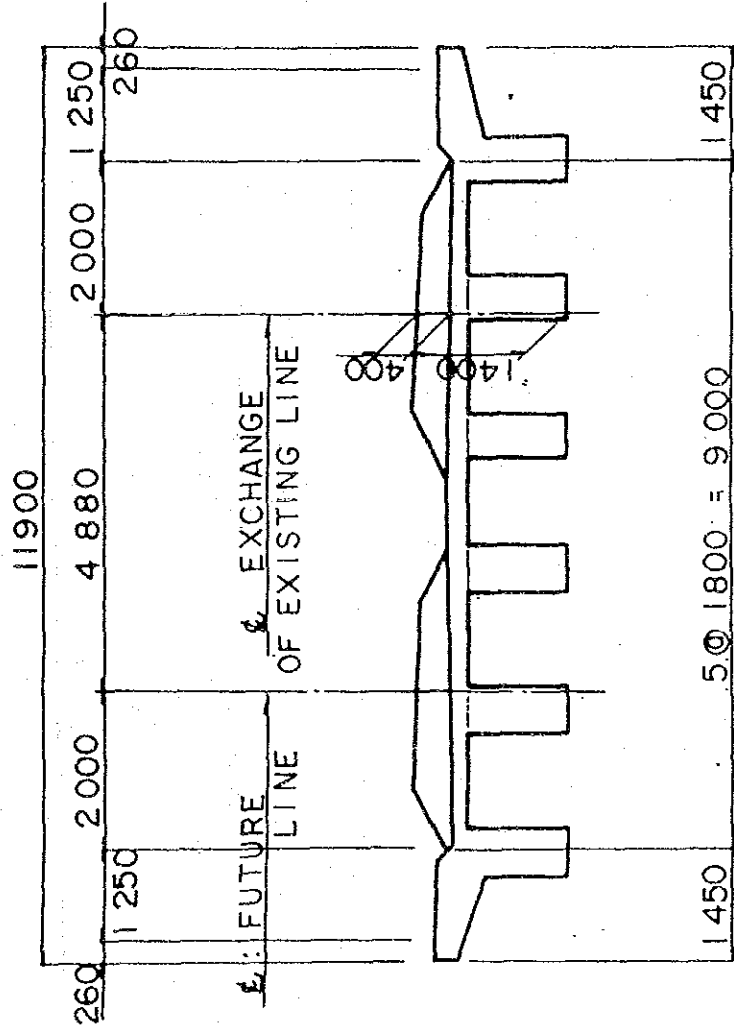
$$\begin{aligned} \text{Mu.max} &= 969.5 \text{ KNm} \quad N = 2224.3 \text{ KN} < M_u = 989.5 \text{ KNm} \quad N = 271.5 \text{ KN} \\ &\text{OK} \quad \quad \quad \text{from pair of Mombasa} \\ &\quad \quad \quad (A_S = A_{S'} = Y_{32} - 6^{NO} = 48.25 \text{ cm}^2) \end{aligned}$$

3) Calculation for footing

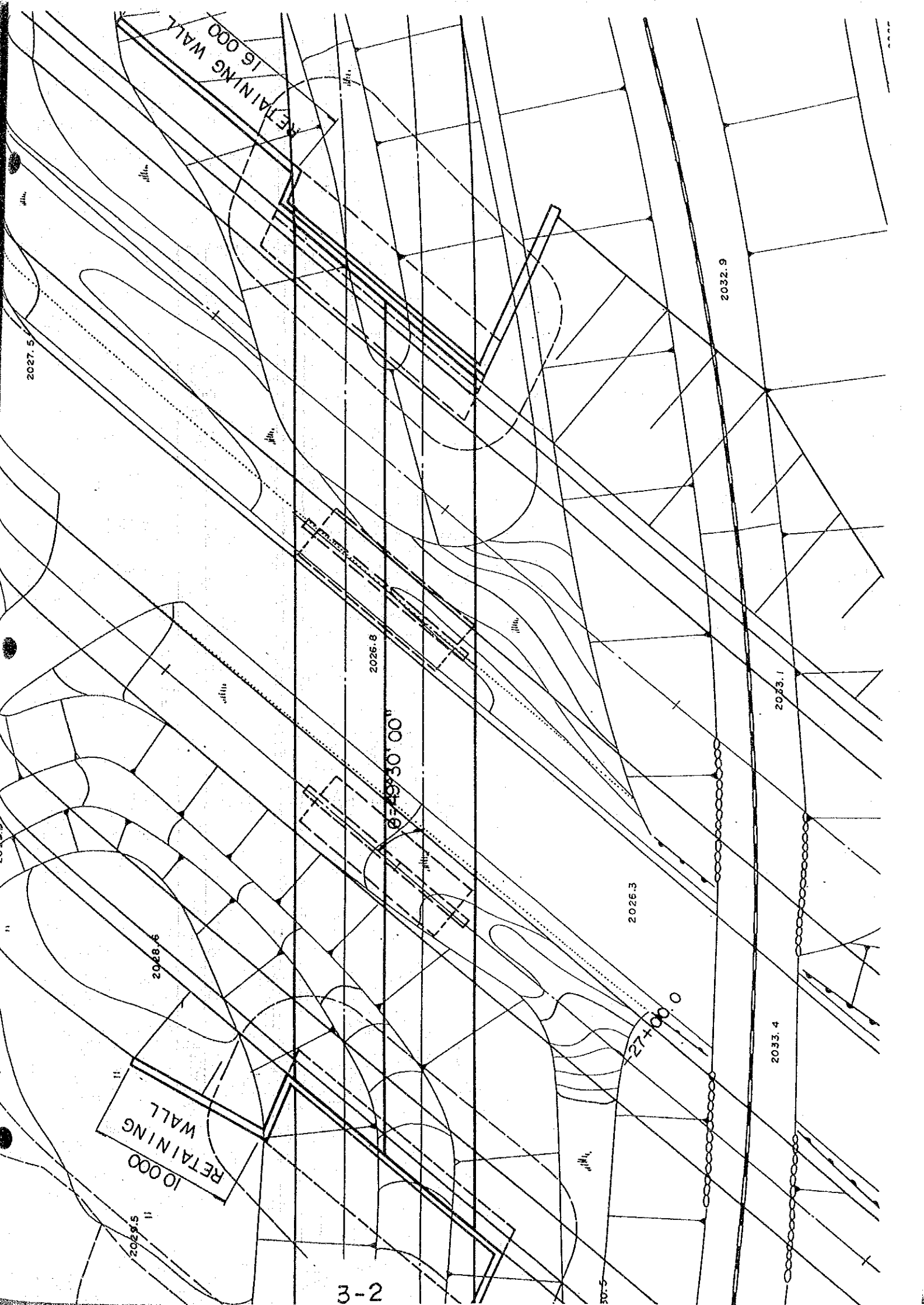
$$\begin{aligned} \text{Mu.max} &= 2648.6 \text{ KNm} < M_{RU} = 2694.8 \text{ KNm} \quad \dots \text{ from pair of Mombasa} \\ &\text{OK} \\ &\quad \quad \quad A_S = Y_{25} - 150^{ctc} (19^{NO}) = 88.36 \text{ cm}^2 \\ \\ \text{Mu.min} &= -1746.3 \text{ KNm} < M_{RU} = 1859.6 \text{ KNm} \quad \dots \text{ from pair of Mombasa} \\ &\text{OK} \\ &\quad \quad \quad A_S = Y_{25} - 150^{ctc} (12^{NO}) = 58.91 \text{ cm}^2 \end{aligned}$$



# RAILWAY BRIDGE



SUPERSTRUCTURE SCALE 1:100



RETAINING WALL  
10 000

RETAINING WALL  
16 000

2026.8

2028.6

2026.3

2032.9

2033.1

2033.4

2027.5

2029.5

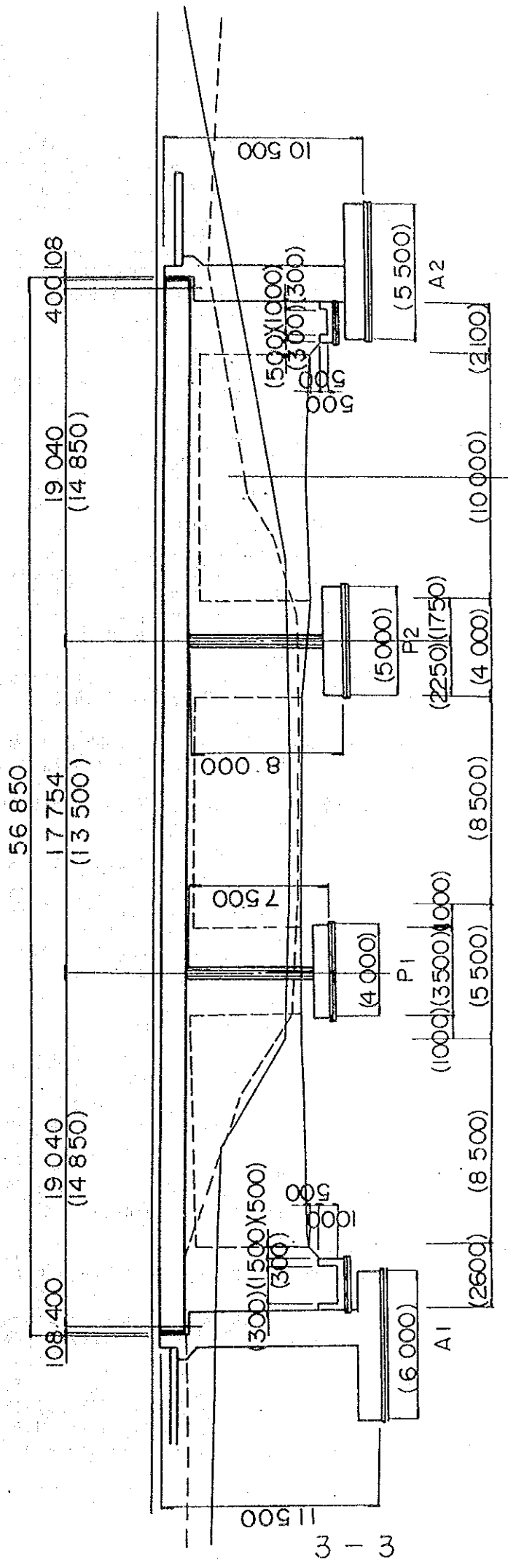
27+00.0

3-2

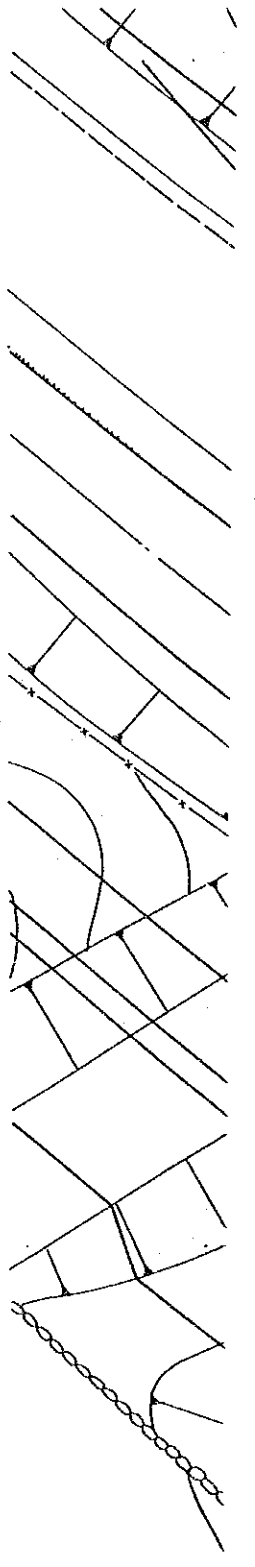
30-5







PROFILE SCALE 1 : 300



2030.3

## 2. LOAD

### 2.1 DEAD LOAD

Note Input data : unit=P', W' t, t/m  
unit=P, W KN=P', W' \*9.8m/s<sup>2</sup>

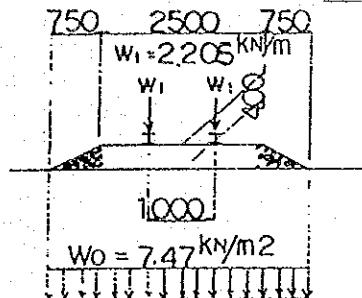
#### 1) Rail And Sleeper

$$W = 4.41 \text{ KN/m}$$

$$\ast W' = 4.41 / 9.8 = 0.45 \text{ t/m}$$

Reference W=0.45t/m : Japanese railway standard

#### 2) Ballast



$$W = (2.5 + 4.0) * 0.4 * 1/2 * 2.0 * 9.8$$

$$= 25.48 \text{ KN/m}$$

$$W_0 = (4.41 + 25.48) / 4.0$$

$$= 7.47 \text{ KN/m}^2$$

$$\ast W' = 7.47 / 9.8 = 0.762 \text{ t/m}^2$$

#### 3) Coping

$$W = (1.51 + 1.31) / 2 * 0.2 * 2.4 * 9.8 = 6.63 \text{ KN/m}$$

Loading point l=0.705m (from Coping end)

$$\ast W' = 6.63 / 9.8 = 0.676 \text{ t/m}$$

#### 4) Handrail

$$W = 0.06 * 9.8 = 0.59 \text{ KN/m}$$

$$\ast W' = 0.59 / 9.8 = 0.06 \text{ t/m}$$

#### 5) Main girder

$$\text{End girder } W = ((1.45 + 1.8/2) * 0.2 + 1.2 * 0.65) * 2.4 * 9.8 = 29.4 \text{ KN/m}$$

$$\ast W' = 29.4 / 9.8 = 3.0 \text{ t/m}$$

$$\text{Middle girder } W = (1.8 * 0.2 + 1.2 * 0.65) * 2.4 * 9.8 = 26.8 \text{ KN/m}$$

$$\ast W' = 26.8 / 9.8 = 2.735 \text{ t/m}$$

#### 6) Cross girder

End cross girder and supporting girder

$$P_1 = 0.6 * 1.05 * 1.15 * 2.4 * 9.8 = 17.04 \text{ KN}$$

$$\ast W' = 17.04 / 9.8 = 1.738 \text{ t}$$

$$P_2 = 0.35 * 1.05 * 1.15 * 2.4 * 9.8 = 9.94 \text{ KN}$$

$$\ast W' = 9.94 / 9.8 = 1.014 \text{ t}$$

## 2.2 LIVE LOAD

#### 1) RU (for 1 rail)

$$P = 250 \text{ KN} \quad W = 80 \text{ KN/m} \quad \ast P' = 250 / 9.8 = 25.5 \text{ t} \quad W' = 80 / 9.8 = 8.163 \text{ t}$$

#### 2) RL

$$P = 200 \text{ KN} \quad W_1 = 50 \text{ KN/m} \quad W_2 = 25 \text{ KN/m}$$

$$\ast P' = 200 / 9.8 = 20.41 \text{ t} \quad W_1' = 50 / 9.8 = 5.10 \text{ t/m} \quad W_2' = 2.55 \text{ t/m}$$

#### 3) RL

$$P_1 = 300 \text{ KN} \quad P_2 = 150 \text{ KN} \quad \ast P' = 300 / 9.8 = 30.6 \text{ t} \quad W' = 150 / 9.8 = 15.31 \text{ t}$$

#### 4) Footway load

$$W = 4.0 \text{ KN/m}^2 \quad \ast W' = 4.0 / 9.8 = 0.408 \text{ t/m}^2$$

#### 5) KS16

$$P_1 = 156.8 \text{ KN} \quad P_2 = 103.9 \text{ KN}$$

$$\ast P_1' = 156.8 / 9.8 = 16 \text{ t} \quad P_2' = 103.9 / 9.8 = 10.6 \text{ t}$$

Conference KS16 : Japanese railway standard

## 2. 3 COMBINATION OF LOADS

### 1) Base Loads

- ① Dead loads1
- ② Dead loads2
- ③ Footway
- ④ RUL (RU Left side)
- ⑤ RUR (RU Right side)
- ⑥ RL1L (RL Distributed load Left side)
- ⑦ RL1R (RL Distributed load Right side)
- ⑧ RL2L (RL Concentrated load Left side)
- ⑨ RL2R (RL Concentrated load Right side)
- ⑩ RL'L (RL' Left side)
- ⑪ RL'R (RL' Right side)
- ⑫ KS16L (KS16 Left side)
- ⑬ KS16R (KS16 Right side)

### 2) Combination Loads

- ⑭ RLL ⑥+⑧
- ⑮ RLR ⑦+⑨
- ⑯ RU ④+⑤
- ⑰ RL ⑬+⑮
- ⑱ RL' ⑩+⑪
- ⑲ KS16 ⑫+⑬

### 3) Pick up Cases

- ④, ⑩, ⑫, ⑭, ⑯, ⑰, ⑱, ⑲

## 3. EFFECTIVE WIDTH AND MODULAS

### 3. 1 EFFECTIVE WIDTH

#### 2) Main girder

$$be = bw + l/5$$

be : effective width for flanges

l : length of moment zero

$$0.7 * L_s \text{ or } 0.85 * L_s'$$

Ls : spans for continuous girders of middle spans

Ls' : spans for continuous girders of end spans

end spans

$$be = 0.65 + 0.85 * 19.05 / 5 = 3.887m > b = 1.8m (2.35m)$$

middle spans

$$be = 0.65 + 0.70 * 17.7545 / 5 = 3.136m > b = 1.8m (2.35m)$$

#### 2) Cross girder

end cross girder

$$\lambda 1 = l/8 + bs = 19.04 * 0.8 / 8 + 0 = 1.904m$$

supporting cross girder

$$\lambda 2 = l/8 + bs = (19.04 + 17.754) * 0.2 / 8 + 0 = 0.920m$$

middle cross girder

$$\lambda 3 = (n-1) * (lb + lw) + bs = (6-1) / 6 * (1.8 + 0.65) + 0 = 2.042m$$

3. 2 MODULAS  
RAILWAY

Main girder

	B	H	A	Y	A*Y	A*y <sup>2</sup>	Ic
End girder ①	235	20	4700	10	47000	470000	156667
middle gir ①	180	20	3600	10	36000	360000	120000
②	65	120	7800	80	624000	49920000	9360000
End girder Σ			12500		671000	50390000	9516667
middle gir Σ			11400		660000	50280000	9480000

$$IY = \Sigma I_c + \Sigma A * Y^2 - \Sigma A * (\Sigma A * Y / \Sigma A)^2$$

$$= 23887387 = 0.239$$

$$IY = \Sigma I_c + \Sigma A * Y^2 - \Sigma A * (\Sigma A * Y / \Sigma A)^2$$

$$= 21549474 = 0.215$$

Cross girder

	B	H	A	Y	A*Y	A*Y <sup>2</sup>	Ic
End cross ①	250.4	20	5008	10	50080	500800	166933
Sopprting ①	244	20	4880	10	48800	488000	162667
②	60	105	6300	72.5	456750	33114375	5788125
End cross Σ			11308		506830	33615175	5955058
Sopprting Σ			11180		505550	33602375	5950792

$$IY = \Sigma I_c + \Sigma A * Y^2 - \Sigma A * (\Sigma A * Y / \Sigma A)^2$$

$$= 16853869 = 0.169$$

$$IY = \Sigma I_c + \Sigma A * Y^2 - \Sigma A * (\Sigma A * Y / \Sigma A)^2$$

$$= 16692630 = 0.167$$

Cross girder

	B	H	A	Y	A*Y	A*Y <sup>2</sup>	Ic
Middle cro ①	443.4	20	8868	10	88680	886800	295600
②	35	105	3675	72.5	266438	19316719	3376406
Middle cro Σ			12543		355118	20203519	3672006

$$IY = \Sigma I_c + \Sigma A * Y^2 - \Sigma A * (\Sigma A * Y / \Sigma A)^2$$

$$= 13821436 = 0.138$$

CONTROL DATA

LOADPIC POINTCUT LINER EDIT MEMBER DEFLECTION MOMENT SHEAR REACTION

STRUCTURE SIZE AND CONSTANTS

NUMBER\_OF\_JOINTS 78

NUMBER\_OF\_MEMBERS 107

NUMBER\_OF\_MAIN\_GIRDERS 6

NUMBER\_OF\_CROSS\_BEAMS 13

NUMBER\_OF\_LOAD\_POINTS 78

YOUNG'S MODULUS 2.800E+06

SHEAR MODULUS 1.217E+06

ALL UNITS ARE METER AND TON

JOINT DATA

NO	COORDINATE		SUPPORT	ELASTIC SUPPORT
	X (M)	Y (M)		
1	6.4353	6.9400	EZ	KZ (1/M)
2	4.8980	5.1400		
3	3.3606	3.3400		
4	1.8233	1.5400		
5	0.2859	-0.2600		
6	-1.2514	-2.0600		
7	11.1953	6.9400		
8	9.6580	5.1400		
9	8.1206	3.3400		
10	6.5833	1.5400		
11	5.0459	-0.2600		
12	3.5086	-2.0600		
13	15.9553	6.9400		
14	14.4180	5.1400		
15	12.8806	3.3400		
16	11.3433	1.5400		
17	9.8059	-0.2600		
18	8.2686	-2.0600		
19	20.7153	6.9400		
20	19.1780	5.1400		
21	17.6406	3.3400		
22	16.1033	1.5400		
23	14.5659	-0.2600		
24	13.0286	-2.0600		
25	25.4753	6.9400		
26	23.9380	5.1400		
27	22.4006	3.3400		
28	20.8633	1.5400		
29	19.3259	-0.2600		
30	17.7886	-2.0600		
31	29.9138	6.9400		
32	28.3765	5.1400		
33	26.8391	3.3400		
34	25.3018	1.5400		
35	23.7644	-0.2600		
36	22.2271	-2.0600		
37	34.3523	6.9400		
38	32.8150	5.1400		
39	31.2776	3.3400		
40	29.7403	1.5400		
41	28.2029	-0.2600		
42	26.6656	-2.0600		
43	38.7908	6.9400		
44	37.2535	5.1400		
45	35.7161	3.3400		
46	34.1788	1.5400		
47	32.6414	-0.2600		
48	31.1041	-2.0600		
49	43.2293	6.9400		
50	41.6920	5.1400		

JOINT DATA

NO.	COORDINATE		SUPPORT	ELASTIC SUPPORT
	X (M)	Y (M)		
51	60.1546	3.3400	1	
52	38.6173	1.5400	1	
53	37.0799	-0.2600	1	
54	35.5426	-2.0600	1	
55	47.9893	6.9400		
56	46.4520	5.1400		
57	44.9146	3.3400		
58	43.3773	1.5400		
59	41.8399	-0.2600		
60	40.3026	-2.0600		
61	52.7493	6.9400		
62	51.2120	5.1400		
63	49.6746	3.3400		
64	48.1373	1.5400		
65	46.5999	-0.2600		
66	45.0626	-2.0600		
67	57.5093	6.9400		
68	55.9720	5.1400		
69	54.4346	3.3400		
70	52.8973	1.5400		
71	51.3599	-0.2600		
72	49.8226	-2.0600		
73	62.2726	6.9400		
74	60.7320	5.1400		
75	59.1946	3.3400		
76	57.6573	1.5400		
77	56.1199	-0.2600		
78	54.5826	-2.0600		

\*\* RAILWAY BRIDGE \*\*

SECTION NO. L (N) IY (M\*4) J (M\*4)

GIRDER NO. 1 55,837\* 0.23900000 0.00000000

INPUT LENGTH 55,837  
 GIRDER LENGTH 55,834  
 SPAN LENGTH ( 1 ) 19,040  
 SPAN LENGTH ( 2 ) 17,754  
 SPAN LENGTH ( 3 ) 19,043

GIRDER NO. 2 55,834\* 0.21500000 0.00000000

INPUT LENGTH 55,834  
 GIRDER LENGTH 55,834  
 SPAN LENGTH ( 1 ) 19,040  
 SPAN LENGTH ( 2 ) 17,754  
 SPAN LENGTH ( 3 ) 19,040

GIRDER NO. 3 55,834\* 0.21500000 0.00000000

INPUT LENGTH 55,834  
 GIRDER LENGTH 55,834  
 SPAN LENGTH ( 1 ) 19,040  
 SPAN LENGTH ( 2 ) 17,754  
 SPAN LENGTH ( 3 ) 19,040

GIRDER NO. 4 55,834\* 0.21500000 0.00000000

INPUT LENGTH 55,834  
 GIRDER LENGTH 55,834  
 SPAN LENGTH ( 1 ) 19,040  
 SPAN LENGTH ( 2 ) 17,754  
 SPAN LENGTH ( 3 ) 19,040



SECTION NO. L (M) IY (M\*\*4) J (M\*\*4)

GIRDER NO. 5 1 55.834\* 0.21500000 0.00000000

INPUT LENGTH 55.834  
GIRDER LENGTH 55.834  
SPAN LENGTH ( 1 ) 19.040  
SPAN LENGTH ( 2 ) 17.754  
SPAN LENGTH ( 3 ) 19.040

GIRDER NO. 6 1 55.834\* 0.23900000 0.00000000

INPUT LENGTH 55.834  
GIRDER LENGTH 55.834  
SPAN LENGTH ( 1 ) 19.040  
SPAN LENGTH ( 2 ) 17.754  
SPAN LENGTH ( 3 ) 19.040

CROSS BEAM DATA

	IY (M**4)	J (M**4)	IY (M**4)	J (M**4)
SB 1	0.16800000	0.00000000	0.16800000	0.00000000
PB 2	0.16900000	0.00000000	0.16900000	0.00000000
CB	0.13800000	0.00000000	0.13800000	0.00000000

\*\* RAILWAY BRIDGE \*\*

MEMBER DATA		J. (M#4)		AS. (M#2)		R. (M)		CONNECTION		ES		GS	
NO.	A	B	I. (M)	J. (M#4)	AS. (M#2)	R. (M)	A	B	ES	GS			
1	1	7	4.7600	0.23900000									
2	7	13	4.7600	0.23900000									
3	13	19	4.7600	0.23900000									
4	19	25	4.7600	0.23900000									
5	25	31	4.4385	0.23900000									
6	31	37	4.4385	0.23900000									
7	37	43	4.4385	0.23900000									
8	43	49	4.4385	0.23900000									
9	49	55	4.7600	0.23900000									
10	55	61	4.7600	0.23900000									
11	61	67	4.7600	0.23900000									
12	67	73	4.7633	0.23900000									
13	73	79	4.7600	0.21500000									
14	79	85	4.7600	0.21500000									
15	85	91	4.7600	0.21500000									
16	91	97	4.7600	0.21500000									
17	97	103	4.4385	0.21500000									
18	103	109	4.4385	0.21500000									
19	109	115	4.4385	0.21500000									
20	115	121	4.4385	0.21500000									
21	121	127	4.7600	0.21500000									
22	127	133	4.7600	0.21500000									
23	133	139	4.7600	0.21500000									
24	139	145	4.7600	0.21500000									
25	145	151	4.7600	0.21500000									
26	151	157	4.7600	0.21500000									
27	157	163	4.7600	0.21500000									
28	163	169	4.7600	0.21500000									
29	169	175	4.4385	0.21500000									
30	175	181	4.4385	0.21500000									
31	181	187	4.4385	0.21500000									
32	187	193	4.4385	0.21500000									
33	193	199	4.7600	0.21500000									
34	199	205	4.7600	0.21500000									
35	205	211	4.7600	0.21500000									
36	211	217	4.7600	0.21500000									
37	217	223	4.7600	0.21500000									
38	223	229	4.7600	0.21500000									
39	229	235	4.7600	0.21500000									
40	235	241	4.7600	0.21500000									
41	241	247	4.4385	0.21500000									
42	247	253	4.4385	0.21500000									
43	253	259	4.4385	0.21500000									
44	259	265	4.4385	0.21500000									
45	265	271	4.7600	0.21500000									
46	271	277	4.7600	0.21500000									
47	277	283	4.7600	0.21500000									
48	283	289	4.7600	0.21500000									
49	289	295	4.7600	0.21500000									
50	295	301	4.7600	0.21500000									

MEMBER DATA

NO.	A		B	L (M)	IY (M <sup>4</sup> )	J (M <sup>4</sup> L)	AS (M <sup>2</sup> )	R (M)	CONNECTION	
	1	2							A	B
51	17	23	4.7600	0.21500000					ES	63
52	23	29	4.7600	0.21500000						
53	29	35	4.4385	0.21500000						
54	35	41	4.4385	0.21500000						
55	41	47	4.4385	0.21500000						
56	47	53	4.4385	0.21500000						
57	53	59	4.7600	0.21500000						
58	59	65	4.7600	0.21500000						
59	65	71	4.7600	0.21500000						
60	71	77	4.7600	0.21500000						
61	6	12	4.7600	0.23900000						
62	12	18	4.7600	0.23900000						
63	18	24	4.7600	0.23900000						
64	24	30	4.7600	0.23900000						
65	30	36	4.4385	0.23900000						
66	36	42	4.4385	0.23900000						
67	42	48	4.4385	0.23900000						
68	48	54	4.4385	0.23900000						
69	54	60	4.7600	0.23900000						
70	60	66	4.7600	0.23900000						
71	66	72	4.7600	0.23900000						
72	72	78	4.7600	0.23900000						
73	1	2	2.3671	0.16800000						
74	2	3	2.3672	0.16800000						
75	3	4	2.3671	0.16800000						
76	4	5	2.3672	0.16800000						
77	5	6	2.3671	0.16800000						
78	13	14	2.3671	0.13800000						
79	14	15	2.3672	0.13800000						
80	15	16	2.3671	0.13800000						
81	16	17	2.3672	0.13800000						
82	17	18	2.3671	0.13800000						
83	25	26	2.3671	0.16900000						
84	26	27	2.3672	0.16900000						
85	27	28	2.3671	0.16900000						
86	28	29	2.3672	0.16900000						
87	29	30	2.3671	0.16900000						
88	37	38	2.3671	0.13800000						
89	38	39	2.3672	0.13800000						
90	39	40	2.3671	0.13800000						
91	40	41	2.3672	0.13800000						
92	41	42	2.3671	0.13800000						
93	49	50	2.3671	0.16900000						
94	50	51	2.3672	0.16900000						
95	51	52	2.3671	0.16900000						
96	52	53	2.3672	0.16900000						
97	53	54	2.3671	0.16900000						
98	61	62	2.3671	0.13800000						
99	62	63	2.3672	0.13800000						
100	63	64	2.3671	0.13800000						

MEMBER DATA

NO.	A	B	L (M)	XY (M#4)	AS (M#2)	R (M)	CONNECTION	ES	ES
101	64	65	2.3672	0.16800000			A B		65
102	65	66	2.3671	0.16800000					
103	73	74	2.3722	0.16800000					
104	74	75	2.3673	0.16800000					
105	75	76	2.3671	0.16800000					
106	76	77	2.3622	0.16800000					
107	77	78	2.3671	0.16800000					

\*\* RAILWAY BRIDGE \*\*

LOAD POINT DATA

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78		

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G R I D

GRID FRAMED STRUCTURE ANALYSIS

MEMBER FORCE BY DISPLACEMENT METHOD

CALCULATED BY JIP  
BURROUGHS 87800

\*\* REMARKS \*\*

D-Z(MM) : DEFLECTION

\* POINT

I  
I  
V

MEMBER

M-X(T,M) : TORSIONAL MOMENT

I-J

V <<----- J-I

M-Y(T,M) : BENDING MOMENT

I-J

V <----- J-I

Q-Z(T) : SHEARING FORCE

I-J

V <----- J-I

RE-PZ(T) : REACTION

\* POINT

I  
I  
V

\*\* RAILWAY BRIDGE \*\*

\* INPUT DATA \* ALL UNITS ARE METER AND TON

NO. OF POINTS 78  
 NO. OF LOAD POINTS 78  
 NO. OF MAIN GIRDER 8  
 NO. OF PANNEL POINT 13  
 SKEW ANGLE  
 MATERIAL PC

LOAD POINT DIAGRAM

	61	62	63	64	65	66
( 1 )	1	2	3	4	5	6
( 2 )	7	8	9	10	11	12
( 3 )	13	14	15	16	17	18
( 4 )	19	20	21	22	23	24
( 5 )	25	26	27	28	29	30
( 6 )	31	32	33	34	35	36
( 7 )	37	38	39	40	41	42
( 8 )	43	44	45	46	47	48
( 9 )	49	50	51	52	53	54
( 10 )	55	56	57	58	59	60
( 11 )	61	62	63	64	65	66
( 12 )	67	68	69	70	71	72
( 13 )	73	74	75	76	77	78



\*\* RAILWAY BRIDGE \*\*

\* LOAD  
 \*\*\* 1-SPAN \*\*\* 2-SPAN \*\*\* 3-SPAN \*\*\*  
 (M) 1\*\*\*\*\* 5\*\*\*\*\* 9\*\*\*\*\* 13  
 0.000 0.000 0.000 0.000 0.000

\* COORDINATE OF ROADWAY EDGE & DISTANCE FROM OUTSIDE GIRDER

	* LEFT SIDE *		* RIGHT SLICE *		* SEPARATOR *		* SKEW ANGLE *
	X (M)	Y (M)	X (M)	Y (M)	X (M)	Y (M)	
1	7.4517	8.1300	-2.2678	-3.2500	0.0000	0.0000	49-30-00
2	12.2117	8.1300	2.4922	-3.2500	0.0000	0.0000	49-30-00
3	16.9717	8.1300	7.2522	-3.2500	0.0000	0.0000	49-30-00
4	21.7317	8.1300	12.0122	-3.2500	0.0000	0.0000	49-30-00
5	26.4917	8.1300	16.7722	-3.2500	0.0000	0.0000	49-30-00
6	30.9302	8.1300	21.2107	-3.2500	0.0000	0.0000	49-30-00
7	35.3687	8.1300	25.6492	-3.2500	0.0000	0.0000	49-30-00
8	39.8072	8.1300	30.0877	-3.2500	0.0000	0.0000	49-30-00
9	44.2457	8.1300	34.5262	-3.2500	0.0000	0.0000	49-30-00
10	49.0057	8.1300	39.2862	-3.2500	0.0000	0.0000	49-30-00
11	53.7657	8.1300	44.0462	-3.2500	0.0000	0.0000	49-30-00
12	58.5257	8.1300	48.8062	-3.2500	0.0000	0.0000	49-30-00
13	63.2969	8.1452	53.5662	-3.2500	0.0000	0.0000	49-30-00

\*\* RAILWAY BRIDGE \*\*

\* LINE DATA

* NO.	1 * FROM DISTANCE (M)	* NO.	2 * FROM DISTANCE (M)	* NO.	3 * FROM DISTANCE (M)	* NO.	4 * FROM DISTANCE (M)
1	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
2	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
3	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
4	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
5	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
6	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
7	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
8	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
9	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
10	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
11	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
12	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			
13	G1 0.079	G3 0.605	G4 -0.605	G6 -0.079			

* NO.	5 * FROM DISTANCE (M)	* NO.	6 * FROM DISTANCE (M)	* NO.	7 * FROM DISTANCE (M)	* NO.	8 * FROM DISTANCE (M)
1	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
2	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
3	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
4	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
5	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
6	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
7	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
8	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
9	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
10	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
11	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
12	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			
13	G1 -0.980	G6 0.980	G1 -1.736	G6 1.736			

* NO.	9 * FROM DISTANCE (M)	* NO.	10 * FROM DISTANCE (M)	* NO.	11 * FROM DISTANCE (M)	* NO.	12 * FROM DISTANCE (M)
1	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
2	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
3	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
4	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
5	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
6	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
7	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
8	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			
9	G1 -1.565	G6 1.565	G2 0.342	G5 -0.342			

\*\* RAILWAY BRIDGE \*\*

\* LINE DATA

10	61	-1.565	66	1.565	62	0.342	65	-0.342
11	61	-1.565	66	1.565	62	0.342	65	-0.342
12	61	-1.565	66	1.565	62	0.342	65	-0.342
13	61	-1.565	66	1.565	62	0.342	65	-0.342

\*\*RAILWAY BRIDGE\*\*

\* LOAD DATA

\* POINT\_LOAD(S)

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C1 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C5 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C9 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C13 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C5 1.014 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C7 1.014 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G1 C11 1.014 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 G2 C1 1.739 1.000

* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G5	1.739	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G9	1.739	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G13	1.739	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G3	1.014	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G7	1.014	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G11	1.014	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G1	1.739	1.000
* LOAD NAME ---	OUT NO.	PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2	G5	1.739	1.000

\*\*RAILWAY BRIDGE\*\*

\*LOAD DATA

\*POINT\_LOAD (I)

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 63 C9 1.739 1.000 /

\* LOAD\_NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 63 C13 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 63 C3 1.014 1.000

\* LOAD\_NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 63 C7 1.014 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 63 C11 1.014 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 64 C1 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 64 C5 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 64 C9 1.739 1.000

\* LOAD NAME --- OUT NO. --- PLACE --- WEIGHT KVAL OF SHEAR

DEAD 2 64 C13 1.739 1.000

* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 64	C3	1.014	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 64	C7	1.014	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 64	C17	1.014	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 65	C1	1.739	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 65	C5	1.739	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 65	C9	1.739	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 65	C13	1.739	1.000
* LOAD NAME ---	OUT NO.	--- PLACE ---	WEIGHT	KVAL OF SHEAR
DEAD	2 65	C3	1.014	1.000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* POINT\_LOAD (C)

* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G5 C7	1,014	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G5 C11	1,014	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G6 C1	1,739	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G6 C5	1,739	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G6 C9	1,739	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G6 C13	1,739	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G6 C3	1,014	1,000
* LOAD NAME	OUT NO.	PLACE	WEIGHT	KVAL OF SHEAR
DEAD	2	G6 C11	1,014	1,000



\* LOAD DATA

\* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME	OUT NO.	KVAL OF SHEAR	DEAD	1	1,000	* LOAD NAME	OUT NO.	KVAL OF SHEAR	DEAD	1	1,000
L5											
1(-)	(R)	0.676				1(-)	(R)	0.676			
2(L)	(R)	0.676				2(L)	(R)	0.676			
3(L)	(R)	0.676				3(L)	(R)	0.676			
4(L)	(R)	0.676				4(L)	(R)	0.676			
5(L)	(R)	0.676				5(L)	(R)	0.676			
6(L)	(R)	0.676				6(L)	(R)	0.676			
7(L)	(R)	0.676				7(L)	(R)	0.676			
8(L)	(R)	0.676				8(L)	(R)	0.676			
9(L)	(R)	0.676				9(L)	(R)	0.676			
10(L)	(R)	0.676				10(L)	(R)	0.676			
11(L)	(R)	0.676				11(L)	(R)	0.676			
12(L)	(R)	0.676				12(L)	(R)	0.676			
13(L)	(R)	0.676				13(L)	(R)	0.676			
L6											
1(-)	(R)	0.676				1(-)	(R)	0.676			
2(L)	(R)	0.676				2(L)	(R)	0.676			
3(L)	(R)	0.676				3(L)	(R)	0.676			
4(L)	(R)	0.676				4(L)	(R)	0.676			
5(L)	(R)	0.676				5(L)	(R)	0.676			
6(L)	(R)	0.676				6(L)	(R)	0.676			
7(L)	(R)	0.676				7(L)	(R)	0.676			
8(L)	(R)	0.676				8(L)	(R)	0.676			
9(L)	(R)	0.676				9(L)	(R)	0.676			
10(L)	(R)	0.676				10(L)	(R)	0.676			
11(L)	(R)	0.676				11(L)	(R)	0.676			
12(L)	(R)	0.676				12(L)	(R)	0.676			
13(L)	(R)	0.676				13(L)	(R)	0.676			

* LOAD NAME	OUT NO.	KVAL OF SHEAR	DEAD	1	1,000	* LOAD NAME	OUT NO.	KVAL OF SHEAR	DEAD	1	1,000
L7											
1(-)	(R)	0.060				1(-)	(R)	0.060			
2(L)	(R)	0.060				2(L)	(R)	0.060			
3(L)	(R)	0.060				3(L)	(R)	0.060			
4(L)	(R)	0.060				4(L)	(R)	0.060			
5(L)	(R)	0.060				5(L)	(R)	0.060			
6(L)	(R)	0.060				6(L)	(R)	0.060			
7(L)	(R)	0.060				7(L)	(R)	0.060			
L8											
1(-)	(R)	0.060				1(-)	(R)	0.060			
2(L)	(R)	0.060				2(L)	(R)	0.060			
3(L)	(R)	0.060				3(L)	(R)	0.060			
4(L)	(R)	0.060				4(L)	(R)	0.060			
5(L)	(R)	0.060				5(L)	(R)	0.060			
6(L)	(R)	0.060				6(L)	(R)	0.060			
7(L)	(R)	0.060				7(L)	(R)	0.060			

\* LOAD DATA

\* LINE\_LOAD\_ON\_DIRECTION\_OF\_GIRDER\_(T/M)

(R)	0.060	(R)	0.060
8(L)	0.060	8(L)	0.060
(R)	0.060	(R)	0.060
9(L)	0.060	9(L)	0.060
(R)	0.060	(R)	0.060
10(L)	0.060	10(L)	0.060
(R)	0.060	(R)	0.060
11(L)	0.060	11(L)	0.060
(R)	0.060	(R)	0.060
12(L)	0.060	12(L)	0.060
(R)	0.060	(R)	0.060
13(L)	0.060	13(L)	0.060
(-)		(-)	

\* LOAD DATA

\* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME	OUT NO.	KVAL OF SHEAR	* LOAD NAME	OUT NO.	KVAL OF SHEAR
	DEAD	2		DEAD	2
		1,000			1,000
	61			62	
1 (-)			1 (-)		
(R)	3,000		(R)	2,735	
2 (L)	3,000		2 (L)	2,735	
(R)	3,000		(R)	2,735	
3 (L)	3,000		3 (L)	2,735	
(R)	3,000		(R)	2,735	
4 (L)	3,000		4 (L)	2,735	
(R)	3,000		(R)	2,735	
5 (L)	3,000		5 (L)	2,735	
(R)	3,000		(R)	2,735	
6 (L)	3,000		6 (L)	2,735	
(R)	3,000		(R)	2,735	
7 (L)	3,000		7 (L)	2,735	
(R)	3,000		(R)	2,735	
8 (L)	3,000		8 (L)	2,735	
(R)	3,000		(R)	2,735	
9 (L)	3,000		9 (L)	2,735	
(R)	3,000		(R)	2,735	
10 (L)	3,000		10 (L)	2,735	
(R)	3,000		(R)	2,735	
11 (L)	3,000		11 (L)	2,735	
(R)	3,000		(R)	2,735	
12 (L)	3,000		12 (L)	2,735	
(R)	3,000		(R)	2,735	
13 (L)	3,000		13 (L)	2,735	
(R)	3,000		(R)	2,735	

* LOAD NAME	OUT NO.	KVAL OF SHEAR	* LOAD NAME	OUT NO.	KVAL OF SHEAR
	DEAD	2		DEAD	2
		1,000			1,000
	63			64	
1 (-)			1 (-)		
(R)	2,735		(R)	2,735	
2 (L)	2,735		2 (L)	2,735	
(R)	2,735		(R)	2,735	
3 (L)	2,735		3 (L)	2,735	
(R)	2,735		(R)	2,735	
4 (L)	2,735		4 (L)	2,735	
(R)	2,735		(R)	2,735	
5 (L)	2,735		5 (L)	2,735	
(R)	2,735		(R)	2,735	
6 (L)	2,735		6 (L)	2,735	
(R)	2,735		(R)	2,735	
7 (L)	2,735		7 (L)	2,735	
(R)	2,735		(R)	2,735	

\* LOAD DATA

\* LINE LOAD ON DIRECTION OF GIRDER (T/M)

(R)	2.735	(R)	2.735
8(L)	2.735	8(L)	2.735
(R)	2.735	(R)	2.735
9(L)	2.735	9(L)	2.735
(R)	2.735	(R)	2.735
10(L)	2.735	10(L)	2.735
(R)	2.735	(R)	2.735
11(L)	2.735	11(L)	2.735
(R)	2.735	(R)	2.735
12(L)	2.735	12(L)	2.735
(R)	2.735	(R)	2.735
13(L)	2.735	13(L)	2.735
(R)	2.735	(R)	2.735

\* LOAD DATA

\* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME	OUT NO.	KVAL OF SHEAR	* LOAD NAME	OUT NO.	KVAL OF SHEAR
	DEAD	2	DEAD	2	1,000
	65			66	
1 (-)	2,735		1 (-)	3,000	
(R)	2,735		(R)	3,000	
2 (L)	2,735		2 (L)	3,000	
(R)	2,735		(R)	3,000	
3 (L)	2,735		3 (L)	3,000	
(R)	2,735		(R)	3,000	
4 (L)	2,735		4 (L)	3,000	
(R)	2,735		(R)	3,000	
5 (L)	2,735		5 (L)	3,000	
(R)	2,735		(R)	3,000	
6 (L)	2,735		6 (L)	3,000	
(R)	2,735		(R)	3,000	
7 (L)	2,735		7 (L)	3,000	
(R)	2,735		(R)	3,000	
8 (L)	2,735		8 (L)	3,000	
(R)	2,735		(R)	3,000	
9 (L)	2,735		9 (L)	3,000	
(R)	2,735		(R)	3,000	
10 (L)	2,735		10 (L)	3,000	
(R)	2,735		(R)	3,000	
11 (L)	2,735		11 (L)	3,000	
(R)	2,735		(R)	3,000	
12 (L)	2,735		12 (L)	3,000	
(R)	2,735		(R)	3,000	
13 (L)	2,735		13 (L)	3,000	
(R)	2,735		(R)	3,000	

RAILWAY BRIDGE \*\*

\* LOAD DATA

\* UNIF\_LOAD\_CI(M\*2)

\* LOAD NAME --- \* LOAD NAME --- \* LOAD NAME --- \* LOAD NAME --- \* LOAD NAME ---  
 DEAD 1 1,000 DEAD 1 1,000 DEAD 1 1,000 DEAD 1 1,000 DEAD 1 1,000

L1	L2	L3	L4
1(-)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
2(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
3(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
4(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
5(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
6(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
7(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
8(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
9(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
10(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
11(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
12(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
13(L)	0.762	0.762	0.762
(R)	0.762	0.762	0.762
(-)			

\* LOAD NAME --- \* LOAD NAME --- \* LOAD NAME --- \* LOAD NAME --- \* LOAD NAME ---  
 LIVE 3 1,000 LIVE 3 1,000 LIVE 3 1,000 LIVE 3 1,000 LIVE 3 1,000

L9	L10
1(-)	0.408
(R)	0.408
2(L)	0.408
(R)	0.408
3(L)	0.408
(R)	0.408
4(L)	0.408
(R)	0.408
5(L)	0.408
(R)	0.408
6(L)	0.408
(R)	0.408
7(L)	0.408
(R)	0.408

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* UNIF\_LOAD (I/M\*2)

(R)	0.408	0.408	(R)	0.408	0.408
8(L)	0.408	0.408	8(L)	0.408	0.408
(R)	0.408	0.408	(R)	0.408	0.408
9(L)	0.408	0.408	9(L)	0.408	0.408
(R)	0.408	0.408	(R)	0.408	0.408
10(L)	0.408	0.408	10(L)	0.408	0.408
(R)	0.408	0.408	(R)	0.408	0.408
11(L)	0.408	0.408	11(L)	0.408	0.408
(R)	0.408	0.408	(R)	0.408	0.408
12(L)	0.408	0.408	12(L)	0.408	0.408
(R)	0.408	0.408	(R)	0.408	0.408
13(L)	0.408	0.408	13(L)	0.408	0.408
(R)	0.408	0.408	(R)	0.408	0.408
(-)			(-)		

\* LOAD DATA

\* TRACK LOAD

* LOAD NAME	OUT NO.	PLACE	DIRECTION		MAXOPT=1			
			LEFT TO RIGHT	DIRECT LOAD				
(RUL)	LIVE	4	L1	C1 - C15				
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8
UNIT	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
WEIGHT (T)	8.163	8.163	8.163	8.163	8.163	8.163	8.163	8.163
WIDTH (M)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
JIKU	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	
UNIT	1-9	1-10	1-11	1-12	1-13	1-14	1-15	
WEIGHT (T)	8.163	8.163	8.163	8.163	8.163	8.163	8.163	
WIDTH (M)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
JIKU	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	NO. 21	NO. 22	
UNIT	1-16	1-17	1-18	1-19	1-20	1-21	1-22	
WEIGHT (T)	8.163	8.163	8.163	8.163	8.163	8.163	8.163	
WIDTH (M)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
JIKU	NO. 23	NO. 24	NO. 25	NO. 26	NO. 27	NO. 28	NO. 29	
UNIT	1-23	1-24	1-25	1-26	1-27	1-28	1-29	
WEIGHT (T)	8.163	8.163	8.163	8.163	8.163	8.163	8.163	
WIDTH (M)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
JIKU	NO. 30	NO. 31	NO. 32	NO. 33	NO. 34	NO. 35	NO. 36	
UNIT	1-30	1-31	1-32	1-33	1-34	1-35	1-36	
WEIGHT (T)	8.163	8.163	8.163	8.163	8.163	8.163	8.163	
WIDTH (M)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	



\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.37	NO.38	NO.39	NO.40	NO.41	NO.42	NO.43
UNIT	1-37	1-38	1-39	1-40	1-41	1-42	1-43
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.44	NO.45	NO.46	NO.47	NO.48	NO.49	NO.50
UNIT	1-44	1-45	1-46	1-47	1-48	1-49	1-50
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.51	NO.52	NO.53	NO.54	NO.55	NO.56	NO.57
UNIT	1-51	1-52	1-53	1-54	1-55	1-56	1-57
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.58	NO.59	NO.60	NO.61	NO.62	NO.63	NO.64
UNIT	1-58	1-59	1-60	1-61	1-62	1-63	1-64
WEIGHT (T)	8,163	25,510	25,510	25,510	25,510	8,163	8,163
WIDTH (M)	1,000	0,800	1,600	1,600	0,800	1,000	1,000

JIKU	NO.65	NO.66	NO.67	NO.68	NO.69	NO.70	NO.71
UNIT	1-65	1-66	1-67	1-68	1-69	1-70	1-71
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

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\*\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.72 NO.73 NO.74 NO.75 NO.76 NO.77 NO.78  
 UNIT 1-72 1-73 1-74 1-75 1-76 1-77 1-78

WEIGHT (T) 8.163 8.163 8.163 8.163 8.163 8.163 8.163  
 WIDTH (M) 1.000 1.000 1.000 1.000 1.000 1.000 1.000

JIKU NO.79 NO.80 NO.81 NO.82 NO.83 NO.84 NO.85  
 UNIT 1-79 1-80 1-81 1-82 1-83 1-84 1-85

WEIGHT (T) 8.163 8.163 8.163 8.163 8.163 8.163 8.163  
 WIDTH (M) 1.000 1.000 1.000 1.000 1.000 1.000 1.000

JIKU NO.86 NO.87 NO.88 NO.89 NO.90 NO.91 NO.92  
 UNIT 1-86 1-87 1-88 1-89 1-90 1-91 1-92

WEIGHT (T) 8.163 8.163 8.163 8.163 8.163 8.163 8.163  
 WIDTH (M) 1.000 1.000 1.000 1.000 1.000 1.000 1.000

JIKU NO.93 NO.94 NO.95 NO.96 NO.97 NO.98 NO.99  
 UNIT 1-93 1-94 1-95 1-96 1-97 1-98 1-99

WEIGHT (T) 8.163 8.163 8.163 8.163 8.163 8.163 8.163  
 WIDTH (M) 1.000 1.000 1.000 1.000 1.000 1.000 1.000

JIKU NO.100 NO.101 NO.102 NO.103 NO.104 NO.105 NO.106  
 UNIT 1-100 1-101 1-102 1-103 1-104 1-105 1-106

WEIGHT (T) 8.163 8.163 8.163 8.163 8.163 8.163 8.163  
 WIDTH (M) 1.000 1.000 1.000 1.000 1.000 1.000 1.000

JIKU NO.107 NO.108 NO.109 NO.110 NO.111 NO.112 NO.113  
 UNIT 1-107 1-108 1-109 1-110 1-111 1-112 1-113

WEIGHT (T) 8.163 8.163 8.163 8.163 8.163 8.163 8.163  
 WIDTH (M) 1.000 1.000 1.000 1.000 1.000 1.000 1.000

NO  
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\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.1 1-1 8,163 8,163 1,000 1,000 1,000 1,000 NO.1 NO.2 NO.3 NO.4 NO.5 NO.6 NO.7 NO.8  
 UNIT 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8  
 WEIGHT (T) 8,163 8,163 8,163 8,163 8,163 8,163 8,163 8,163  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000

\* LOAD NAME --- PLACE --- DIRECTION

(RUR) LIVE 5 L12 C1 C13 RIGHT TO LEFT DIRECT LOAD MAXOPIE1  
 JIKU NO.1 NO.2 NO.3 NO.4 NO.5 NO.6 NO.7 NO.8  
 UNIT 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8  
 WEIGHT (T) 8,163 8,163 8,163 8,163 8,163 8,163 8,163 8,163  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.9 NO.10 NO.11 NO.12 NO.13 NO.14 NO.15  
 UNIT 1-9 1-10 1-11 1-12 1-13 1-14 1-15  
 WEIGHT (T) 8,163 8,163 8,163 8,163 8,163 8,163 8,163  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.16 NO.17 NO.18 NO.19 NO.20 NO.21 NO.22  
 UNIT 1-16 1-17 1-18 1-19 1-20 1-21 1-22  
 WEIGHT (T) 8,163 8,163 8,163 8,163 8,163 8,163 8,163  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.23 NO.24 NO.25 NO.26 NO.27 NO.28 NO.29  
 UNIT 1-23 1-24 1-25 1-26 1-27 1-28 1-29  
 WEIGHT (T) 8,163 8,163 8,163 8,163 8,163 8,163 8,163  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.30	NO.31	NO.32	NO.33	NO.34	NO.35	NO.36
UNIT	1-30	1-31	1-32	1-33	1-34	1-35	1-36
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.37	NO.38	NO.39	NO.40	NO.41	NO.42	NO.43
UNIT	1-37	1-38	1-39	1-40	1-41	1-42	1-43
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.44	NO.45	NO.46	NO.47	NO.48	NO.49	NO.50
UNIT	1-44	1-45	1-46	1-47	1-48	1-49	1-50
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.51	NO.52	NO.53	NO.54	NO.55	NO.56	NO.57
UNIT	1-51	1-52	1-53	1-54	1-55	1-56	1-57
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.58	NO.59	NO.60	NO.61	NO.62	NO.63	NO.64
UNIT	1-58	1-59	1-60	1-61	1-62	1-63	1-64
WEIGHT (T)	8,163	25,510	25,510	25,510	25,510	8,163	8,163
WIDTH (M)	1,000	0,800	1,600	1,600	1,600	0,800	1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.65	NO.66	NO.67	NO.68	NO.69	NO.70	NO.71
UNIT	1-65	1-66	1-67	1-68	1-69	1-70	1-71
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.72	NO.73	NO.74	NO.75	NO.76	NO.77	NO.78
UNIT	1-72	1-73	1-74	1-75	1-76	1-77	1-78
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.79	NO.80	NO.81	NO.82	NO.83	NO.84	NO.85
UNIT	1-79	1-80	1-81	1-82	1-83	1-84	1-85
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.86	NO.87	NO.88	NO.89	NO.90	NO.91	NO.92
UNIT	1-86	1-87	1-88	1-89	1-90	1-91	1-92
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.93	NO.94	NO.95	NO.96	NO.97	NO.98	NO.99
UNIT	1-93	1-94	1-95	1-96	1-97	1-98	1-99
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-
WEIGHT (T)	8,163	8,163	8,163	8,163	8,163	8,163	8,163
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
WEIGHT (T)	8.163	8.163	8.163	8.163	8.163	8.163	8.163	8.163	8.163
WIDTH (M)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

\* LOAD NAME --- PLACE --- DIRECTION

LOAD NAME	OUT NO.	PLACE	DIRECTION
(RLL) LIVE	6	C1 - C13	LEFT TO RIGHT
JIKU	NO. 1	NO. 2	NO. 3
UNIT	1-1	1-2	1-3
WEIGHT (T)	2.551	2.551	2.551
WIDTH (M)	1.000	1.000	1.000
JIKU	NO. 9	NO. 10	NO. 11
UNIT	1-9	1-10	1-11
WEIGHT (T)	2.551	2.551	2.551
WIDTH (M)	1.000	1.000	1.000
JIKU	NO. 16	NO. 17	NO. 18
UNIT	1-16	1-17	1-18
WEIGHT (T)	2.551	2.551	2.551
WIDTH (M)	1.000	1.000	1.000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.23	NO.24	NO.25	NO.26	NO.27	NO.28	NO.29
UNIT	1-23	1-24	1-25	1-26	1-27	1-28	1-29
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.30	NO.31	NO.32	NO.33	NO.34	NO.35	NO.36
UNIT	1-30	1-31	1-32	1-33	1-34	1-35	1-36
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.37	NO.38	NO.39	NO.40	NO.41	NO.42	NO.43
UNIT	1-37	1-38	1-39	1-40	1-41	1-42	1-43
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.44	NO.45	NO.46	NO.47	NO.48	NO.49	NO.50
UNIT	1-44	1-45	1-46	1-47	1-48	1-49	1-50
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.51	NO.52	NO.53	NO.54	NO.55	NO.56	NO.57
UNIT	1-51	1-52	1-53	1-54	1-55	1-56	1-57
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.58	NO.59	NO.60	NO.61	NO.62	NO.63	NO.64
UNIT	1-58	1-59	1-60	1-61	1-62	1-63	1-64
WEIGHT (T)	2,551	5,102	5,102	5,102	5,102	5,102	5,102
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.65 NO.66 NO.67 NO.68 NO.69 NO.70 NO.71  
 UNIT 1-65 1-66 1-67 1-68 1-69 1-70 1-71  
 WEIGHT (T) 5,102 5,102 5,102 5,102 5,102 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.72 NO.73 NO.74 NO.75 NO.76 NO.77 NO.78  
 UNIT 1-72 1-73 1-74 1-75 1-76 1-77 1-78  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.79 NO.80 NO.81 NO.82 NO.83 NO.84 NO.85  
 UNIT 1-79 1-80 1-81 1-82 1-83 1-84 1-85  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.86 NO.87 NO.88 NO.89 NO.90 NO.91 NO.92  
 UNIT 1-86 1-87 1-88 1-89 1-90 1-91 1-92  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.93 NO.94 NO.95 NO.96 NO.97 NO.98 NO.99  
 UNIT 1-93 1-94 1-95 1-96 1-97 1-98 1-99  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000



\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

\* LOAD NAME -- OUT -- PLACE -- DIRECTION

(RLTR)	LIVE	7	L12	CT	-	CT3	RIGHT TO LEFT	DIRECT LOAD	MAXOPT=1
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	
UNIT	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

\*\*\*RAILWAY BRIDGE\*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO. 9 NO. 10 NO. 11 NO. 12 NO. 13 NO. 14 NO. 15  
 UNIT 1-9 1-10 1-11 1-12 1-13 1-14 1-15  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO. 16 NO. 17 NO. 18 NO. 19 NO. 20 NO. 21 NO. 22  
 UNIT 1-16 1-17 1-18 1-19 1-20 1-21 1-22  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO. 23 NO. 24 NO. 25 NO. 26 NO. 27 NO. 28 NO. 29  
 UNIT 1-23 1-24 1-25 1-26 1-27 1-28 1-29  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO. 30 NO. 31 NO. 32 NO. 33 NO. 34 NO. 35 NO. 36  
 UNIT 1-30 1-31 1-32 1-33 1-34 1-35 1-36  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO. 37 NO. 38 NO. 39 NO. 40 NO. 41 NO. 42 NO. 43  
 UNIT 1-37 1-38 1-39 1-40 1-41 1-42 1-43  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO. 44 NO. 45 NO. 46 NO. 47 NO. 48 NO. 49 NO. 50  
 UNIT 1-44 1-45 1-46 1-47 1-48 1-49 1-50  
 WEIGHT (T) 2,551 2,551 2,551 2,551 2,551 2,551 2,551  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.51	NO.52	NO.53	NO.54	NO.55	NO.56	NO.57
UNIT	1-51	1-52	1-53	1-54	1-55	1-56	1-57
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.58	NO.59	NO.60	NO.61	NO.62	NO.63	NO.64
UNIT	1-58	1-59	1-60	1-61	1-62	1-63	1-64
WEIGHT (T)	2,551	5,102	5,102	5,102	5,102	5,102	5,102
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.65	NO.66	NO.67	NO.68	NO.69	NO.70	NO.71
UNIT	1-65	1-66	1-67	1-68	1-69	1-70	1-71
WEIGHT (T)	5,102	5,102	5,102	5,102	5,102	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.72	NO.73	NO.74	NO.75	NO.76	NO.77	NO.78
UNIT	1-72	1-73	1-74	1-75	1-76	1-77	1-78
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

JIKU	NO.79	NO.80	NO.81	NO.82	NO.83	NO.84	NO.85
UNIT	1-79	1-80	1-81	1-82	1-83	1-84	1-85
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.86	NO.87	NO.88	NO.89	NO.90	NO.91	NO.92
UNIT	1-86	1-87	1-88	1-89	1-90	1-91	1-92
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.93	NO.94	NO.95	NO.96	NO.97	NO.98	NO.99
UNIT	1-93	1-94	1-95	1-96	1-97	1-98	1-99
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
JIKU	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**	NO.**
UNIT	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-	1-**-
WEIGHT (T)	2,551	2,551	2,551	2,551	2,551	2,551	2,551
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000

\* LOAD NAME --- OUT NO. --- PLACE --- DIRECTION

(R12L) LIVE 8 L11 C1 - C13 LEFT TO RIGHT DIRECT LOAD MAXOPT=1

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO. 1 NO. 2  
 UNIT 1-1 1-2  
 HEIGHT (T) 20,408 0,000  
 WIDTH (M) 1,000

\* LOAD NAME --- OUT NO. -- PLACE ----- DIRECTION

(RL2R) LIVE 9 L12 C1 - C13 RIGHT TO LEFT DIRECT LOAD MAXOPI=1  
 JIKU NO. 1 NO. 2  
 UNIT 1-1 1-2

WEIGHT (T) 20,408 0,000  
 WIDTH (M) 1,000

\* LOAD NAME --- OUT NO. -- PLACE ----- DIRECTION

(RL1L) LIVE 10 L11 C1 - C13 LEFT TO RIGHT DIRECT LOAD MAXOPI=1  
 JIKU NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 NO. 6 NO. 7 NO. 8  
 WEIGHT (T) 15,306 30,612 15,306 30,612 15,306 30,612 15,306 30,612  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO. 9 NO. 10 NO. 11 NO. 12 NO. 13 NO. 14 NO. 15  
 WEIGHT (T) 15,306 30,612 15,306 30,612 15,306 30,612 15,306  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO. 16 NO. 17 NO. 18 NO. 19 NO. 20 NO. 21 NO. 22  
 WEIGHT (T) 30,612 15,306 30,612 15,306 30,612 15,306 30,612  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.23 NO.24 NO.25 NO.26 NO.27 NO.28 NO.29  
 WEIGHT (T) 15,306 30,612 15,306 30,612 15,306 30,612 15,306  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO.30  
 WEIGHT (T) 30,612  
 WIDTH (M) 2,400

\* LOAD NAME -- PLACE -- DIRECTION

(RL'R) LIVE 11 L12 C1 - G13  
 NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 NO. 6 NO. 7 NO. 8  
 WEIGHT (T) 15,306 30,612 15,306 30,612 15,306 30,612 15,306 30,612  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO. 9 NO.10 NO.11 NO.12 NO.13 NO.14 NO.15  
 WEIGHT (T) 15,306 30,612 15,306 30,612 15,306 30,612 15,306  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO.16 NO.17 NO.18 NO.19 NO.20 NO.21 NO.22  
 WEIGHT (T) 30,612 15,306 30,612 15,306 30,612 15,306 30,612  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO.23 NO.24 NO.25 NO.26 NO.27 NO.28 NO.29  
 WEIGHT (T) 15,306 30,612 15,306 30,612 15,306 30,612 15,306  
 WIDTH (M) 2,400 2,400 2,400 2,400 2,400 2,400 2,400

JIKU NO.30  
 WEIGHT (T) 30,612  
 WIDTH (M) 2,400

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

* LOAD NAME ---		OUT NO. -- PLACE		DIRECTION				
(KSTGL)	LIVE	12 L11	C1 - 613	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1		
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8
UNIT	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
WEIGHT (T)	9,000	18,000	18,000	18,000	18,000	12,000	12,000	12,000
WIDTH (M)	2,400	1,500	1,500	1,500	2,700	1,500	1,500	1,800
JIKU	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	
UNIT	1-9	1-10	1-11	1-12	1-13	1-14	1-15	
WEIGHT (T)	12,000	9,000	18,000	18,000	18,000	18,000	18,000	12,000
WIDTH (M)	1,500	2,400	2,400	1,500	1,500	1,500	2,700	
JIKU	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	NO. 21	NO. 22	
UNIT	1-16	1-17	1-18	1-19	1-20	1-21	1-22	
WEIGHT (T)	12,000	12,000	12,000	6,000	6,000	6,000	6,000	
WIDTH (M)	1,500	1,800	1,500	1,500	1,000	1,000	1,000	
JIKU	NO. 23	NO. 24	NO. 25	NO. 26	NO. 27	NO. 28	NO. 29	
UNIT	1-23	1-24	1-25	1-26	1-27	1-28	1-29	
WEIGHT (T)	6,000	6,000	6,000	6,000	6,000	6,000	6,000	
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
JIKU	NO. 30	NO. 31	NO. 32	NO. 33	NO. 34	NO. 35	NO. 36	
UNIT	1-30	1-31	1-32	1-33	1-34	1-35	1-36	
WEIGHT (T)	6,000	6,000	6,000	6,000	6,000	6,000	6,000	
WIDTH (M)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.37 NO.38 NO.39 NO.40 NO.41 NO.42 NO.43  
 UNIT 1-37 1-38 1-39 1-40 1-41 1-42 1-43  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.44 NO.45 NO.46 NO.47 NO.48 NO.49 NO.50  
 UNIT 1-44 1-45 1-46 1-47 1-48 1-49 1-50  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.51 NO.52 NO.53 NO.54 NO.55 NO.56 NO.57  
 UNIT 1-51 1-52 1-53 1-54 1-55 1-56 1-57  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.58 NO.59 NO.60 NO.61 NO.62 NO.63 NO.64  
 UNIT 1-58 1-59 1-60 1-61 1-62 1-63 1-64  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.65 NO.66 NO.67 NO.68 NO.69 NO.70 NO.71  
 UNIT 1-65 1-66 1-67 1-68 1-69 1-70 1-71  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000



\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.72 NO.73 NO.74 NO.75 NO.76  
 UNIT 1-72 1-73 1-74 1-75 1-76  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000

\* LOAD NAME -- PLACE -- DIRECTION

(K5168) LIVE 13 L12 C1 - C13 RIGHT TO LEFT DIRECT LOAD MAXORZ=1  
 JIKU NO.1 NO.2 NO.3 NO.4 NO.5 NO.6 NO.7 NO.8  
 UNIT 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8  
 WEIGHT (T) 9,000 18,000 18,000 18,000 18,000 12,000 12,000 12,000  
 WIDTH (M) 2,400 1,500 1,500 1,500 2,700 1,500 1,500 1,800

JIKU NO.9 NO.10 NO.11 NO.12 NO.13 NO.14 NO.15  
 UNIT 1-9 1-10 1-11 1-12 1-13 1-14 1-15  
 WEIGHT (T) 12,000 9,000 18,000 18,000 18,000 18,000 12,000  
 WIDTH (M) 1,500 2,400 2,400 1,500 1,500 1,500 2,700

JIKU NO.16 NO.17 NO.18 NO.19 NO.20 NO.21 NO.22  
 UNIT 1-16 1-17 1-18 1-19 1-20 1-21 1-22  
 WEIGHT (T) 12,000 12,000 12,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,500 1,800 1,500 1,500 1,000 1,000 1,000

JIKU NO.23 NO.24 NO.25 NO.26 NO.27 NO.28 NO.29  
 UNIT 1-23 1-24 1-25 1-26 1-27 1-28 1-29  
 WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000  
 WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

\*\* RAILWAY BRIDGE \*\*

\* LOAD DATA

\* TRACK LOAD

JIKU NO.30 NO.31 NO.32 NO.33 NO.34 NO.35 NO.36

UNIT 1-30 1-31 1-32 1-33 1-34 1-35 1-36

WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000

WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.37 NO.38 NO.39 NO.40 NO.41 NO.42 NO.43

UNIT 1-37 1-38 1-39 1-40 1-41 1-42 1-43

WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000

WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.44 NO.45 NO.46 NO.47 NO.48 NO.49 NO.50

UNIT 1-44 1-45 1-46 1-47 1-48 1-49 1-50

WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000

WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.51 NO.52 NO.53 NO.54 NO.55 NO.56 NO.57

UNIT 1-51 1-52 1-53 1-54 1-55 1-56 1-57

WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000

WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.58 NO.59 NO.60 NO.61 NO.62 NO.63 NO.64

UNIT 1-58 1-59 1-60 1-61 1-62 1-63 1-64

WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000

WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

JIKU NO.65 NO.66 NO.67 NO.68 NO.69 NO.70 NO.71

UNIT 1-65 1-66 1-67 1-68 1-69 1-70 1-71

WEIGHT (T) 6,000 6,000 6,000 6,000 6,000 6,000 6,000

WIDTH (M) 1,000 1,000 1,000 1,000 1,000 1,000 1,000

\* LOAD DATA

\* TRACK LOAD

JIKU	NO.72	NO.73	NO.74	NO.75	NO.76
UNIT	1-72	1-73	1-74	1-75	1-76
WEIGHT (T)	6,000	6,000	6,000	6,000	6,000
WIDTH (M)	1,000	1,000	1,000	1,000	1,000

COMPOUND LOAD CASE # 6

LOAD NAME NS FC (Z C1) FCI) CONTROL BIT (G1 GRIDD) P1 FRAMEZ P2 PICKUP TABLE FOR FRAMEZ )

14	(RL)	2	1.0000	6	6	1.0000	6	8	1.0000
15	(RL)	2	1.0000	6	7	1.0000	6	9	1.0000
16	(RU)	2	1.0000	6	4	1.0000	6	5	1.0000
17	(RL)	2	1.0000	6	14	1.0000	6	15	1.0000
18	(RL)	2	1.0000	6	10	1.0000	6	11	1.0000
19	(KS16)	2	1.0000	6	12	1.0000	6	13	1.0000

\*\* RAILWAY BRIDGE \*\*

PICKUP TABLE CASE = 1

PICKUP TABLE NO. 1

4 10 12 14 16 17 18 19

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	D-Z(MM) 1	P-Z(MM) 2	D-Z(MM) 3	D-Z(MM) 4	D-Z(MM) 5	D-Z(MM) 6	D-Z(MM) 7
1		0.000	0.000	0.000	0.000	0.000	0.000	1.549
2		0.000	0.000	0.000	0.000	0.000	0.000	3.258
3	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.346
4	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.183
5	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.536
6	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.558
7	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.037
8	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.523
9	(+)	0.000	0.000	0.000	0.000	0.000	0.000	1.651
10	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.175
11	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.018
12	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.190
13	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.735
14	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.207
15	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.019
16	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.084
17	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.809
18	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.671
19	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.074
20	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.433
21	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.258
22	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.410
23	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.062
24	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.336
25	(+)	0.000	0.000	0.000	0.000	0.000	0.000	2.385
26	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.382
27	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.037
28	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.274
29	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.593
30	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-1.082
31	(+)	0.000	0.000	0.000	0.000	0.000	0.000	2.422
32	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.655
33	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.885
34	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-1.104
35	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.320
36	(-)	0.000	0.000	0.000	0.000	0.000	0.000	-0.746

NO.	LOAD NAME	P-Z (MM)	D-Z (MM)	P-Z (MM)	D-Z (MM)	P-Z (MM)	D-Z (MM)
1		1.308	1.305	1.382	1.346	1.902	1.790
2		3.272	3.277	3.269	3.253	4.190	4.204
3	(+)	0.255	0.103	0.254	0.245	0.715	0.380
4	(-)	-0.117	-0.049	-0.117	-0.117	-0.286	-0.174
5	(+)	5.360	3.511	6.990	6.056	6.048	6.048
6	(-)	-0.426	-0.329	-0.095	-0.274	-0.851	-0.742
7	(+)	0.690	2.093	5.358	4.254	0.091	0.959
8	(-)	-0.095	-0.239	-0.428	-0.561	-0.718	-0.718
9	(+)	1.909	1.287	0.252	0.018	2.292	2.201
10	(-)	-0.133	-0.075	-0.030	-0.190	-0.245	-0.232
11	(+)	0.252	1.287	1.909	1.650	0.069	0.350
12	(-)	-0.030	-0.112	-0.134	-0.175	-0.261	-0.044
13	(+)	0.868	0.326	0.113	0.019	1.028	0.979
14	(-)	-0.166	-0.108	-0.035	-0.084	-0.326	-0.270
15	(+)	0.113	0.545	0.868	0.735	0.030	0.159
16	(-)	-0.035	-0.128	-0.166	-0.207	-0.117	-0.053
17	(+)	4.190	1.690	0.587	0.067	5.339	5.076
18	(-)	-0.514	-0.286	-0.114	-0.233	-1.053	-0.891
19	(+)	0.287	2.915	4.190	3.508	0.119	0.824
20	(-)	-0.131	-0.493	-0.602	-0.764	-0.694	-0.198
21	(+)	3.306	2.470	0.502	0.041	4.342	4.342
22	(-)	-0.213	-0.173	-0.070	-0.270	-0.226	-0.545
23	(+)	0.441	2.284	3.513	2.705	0.038	0.615
24	(-)	-0.102	-0.389	-0.459	-0.606	-0.260	-0.152
25	(+)	2.777	1.062	0.365	0.037	3.320	3.180
26	(-)	-0.590	-0.210	-0.064	-0.274	-0.592	-0.502
27	(+)	0.365	1.832	2.776	2.584	0.038	0.509
28	(-)	-0.064	-0.159	-0.240	-0.382	-0.318	-0.038
29	(+)	6.050	5.563	6.048	4.590	6.377	7.008
30	(-)	-0.521	-0.596	-0.523	-1.084	-1.549	-0.883
31	(+)	3.142	2.894	3.141	2.821	3.378	3.689
32	(-)	-0.363	-0.399	-0.364	-0.656	-0.970	-0.600
33	(+)	4.777	4.605	4.777	3.876	5.458	5.900
34	(-)	-0.645	-0.755	-0.716	-1.217	-1.829	-1.089
35	(+)	3.947	3.730	4.015	2.947	4.685	4.934
36	(-)	-0.415	-0.522	-0.529	-0.976	-1.085	-0.637

NO.	LOAD NAME	D-Z (MM) 15	D-Z (MM) 16	D-Z (MM) 17	D-Z (MM) 18	D-Z (MM) 19	P-Z (MM) 20	D-Z (MM) 21
1		1.688	1.687	1.787	1.958	1.130	1.032	0.982
2		4.211	4.210	4.198	4.181	2.438	2.425	2.428
3	(+)	0.150	0.149	0.379	0.714	0.480	0.240	0.101
4	(+)	-0.089	-0.089	-0.174	-0.286	-0.236	-0.126	-0.044
5	(+)	4.696	4.696	4.759	4.991	3.677	3.907	2.716
6	(-)	-0.579	-0.579	-0.142	-0.119	-0.665	-0.762	-0.524
7	(+)	2.792	4.694	6.045	6.282	0.081	0.568	1.611
8	(-)	-0.371	-0.581	-0.745	-0.855	-0.404	-0.105	-0.304
9	(+)	1.709	0.350	0.350	0.328	1.351	1.417	1.003
10	(-)	-0.181	-0.116	-0.044	-0.208	-0.208	-0.238	-0.164
11	(+)	1.017	1.708	2.200	2.291	0.025	0.209	0.592
12	(-)	-0.176	-0.182	-0.233	-0.267	-0.139	-0.033	-0.095
13	(+)	0.761	0.456	0.159	0.050	0.624	0.642	0.457
14	(-)	-0.207	-0.133	-0.053	-0.117	-0.222	-0.292	-0.189
15	(+)	0.456	0.761	0.979	1.028	0.028	0.097	0.275
16	(-)	-0.133	-0.207	-0.270	-0.326	-0.070	-0.044	-0.117
17	(+)	3.943	2.366	0.824	0.108	3.255	3.432	2.442
18	(-)	-0.696	-0.445	-0.170	-0.305	-0.804	-0.916	-0.630
19	(+)	2.365	3.943	5.076	5.338	0.027	0.504	1.435
20	(-)	-0.510	-0.792	-1.033	-1.204	-0.363	-0.151	-0.423
21	(+)	3.373	2.023	0.705	0.367	2.785	3.044	2.097
22	(-)	-0.426	-0.272	-0.104	-0.317	-0.490	-0.580	-0.485
23	(+)	1.787	3.008	3.874	4.019	0.086	0.362	1.024
24	(-)	-0.329	-0.628	-0.805	-0.921	-0.256	-0.112	-0.325
25	(+)	2.470	1.474	0.509	0.058	1.975	2.059	1.460
26	(-)	-0.388	-0.249	-0.098	-0.378	-0.483	-0.535	-0.333
27	(+)	1.474	2.469	3.179	3.319	0.033	0.306	0.867
28	(-)	-0.249	-0.388	-0.503	-0.593	-0.218	-0.076	-0.212
29	(+)	7.488	7.487	7.005	6.372	3.759	4.476	3.527
30	(-)	-0.950	-0.951	-0.886	-1.374	-1.070	-0.866	-0.828
31	(+)	3.943	3.943	3.688	3.377	2.028	2.365	2.327
32	(-)	-0.637	-0.637	-0.601	-0.971	-0.701	-0.506	-0.565
33	(+)	6.309	6.308	5.899	5.447	3.552	3.936	3.877
34	(-)	-1.206	-1.244	-1.203	-1.809	-1.167	-1.097	-1.053
35	(+)	5.160	5.031	4.579	4.086	2.872	3.406	3.121
36	(-)	-0.825	-0.900	-0.909	-1.438	-0.746	-0.672	-0.710



NO.	LOAD NAME	D-Z (MM) 22	D-Z (MM) 23	D-Z (MM) 24	D-Z (MM) 25	D-Z (MM) 26	D-Z (MM) 27	D-Z (MM) 28
1		0.981	1.030	1.126	0.000	0.000	0.000	0.000
2		2.426	2.420	2.410	0.000	0.000	0.000	0.000
3	(+)	0.101	0.240	0.479	0.000	0.000	0.000	0.000
4	(-)	-0.044	-0.126	-0.236	0.000	0.000	0.000	0.000
5	(RUL)	1.612	0.569	0.080	0.000	0.000	0.000	0.000
6	(-)	-0.303	-0.104	-0.405	0.000	0.000	0.000	0.000
7	(RUR)	2.714	3.905	3.674	0.000	0.000	0.000	0.000
8	(-)	-0.526	-0.764	-0.669	0.000	0.000	0.000	0.000
9	(+)	0.592	0.209	0.025	0.000	0.000	0.000	0.000
10	(RL1L)	-0.095	-0.033	-0.149	0.000	0.000	0.000	0.000
11	(+)	1.003	1.416	1.350	0.000	0.000	0.000	0.000
12	(-)	-0.164	-0.239	-0.209	0.000	0.000	0.000	0.000
13	(RL2L)	0.275	0.097	0.028	0.000	0.000	0.000	0.000
14	(-)	-0.117	-0.044	-0.070	0.000	0.000	0.000	0.000
15	(RL2R)	0.457	0.642	0.624	0.000	0.000	0.000	0.000
16	(+)	-0.189	-0.292	-0.275	0.000	0.000	0.000	0.000
17	(RL1L)	1.435	0.504	0.097	0.000	0.000	0.000	0.000
18	(-)	-0.365	-0.126	-0.363	0.000	0.000	0.000	0.000
19	(RL1R)	2.442	3.431	3.254	0.000	0.000	0.000	0.000
20	(+)	-0.719	-1.035	-0.961	0.000	0.000	0.000	0.000
21	(-)	1.228	0.432	0.059	0.000	0.000	0.000	0.000
22	(-)	-0.223	-0.077	-0.311	0.000	0.000	0.000	0.000
23	(KST6R)	1.720	2.395	2.338	0.000	0.000	0.000	0.000
24	(-)	-0.563	-0.855	-0.717	0.000	0.000	0.000	0.000
25	(+)	0.868	0.306	0.053	0.000	0.000	0.000	0.000
26	(-)	-0.212	-0.076	-0.219	0.000	0.000	0.000	0.000
27	(RLR)	1.460	2.058	1.973	0.000	0.000	0.000	0.000
28	(-)	-0.353	-0.531	-0.484	0.000	0.000	0.000	0.000
29	(RU)	4.326	4.473	3.754	0.000	0.000	0.000	0.000
30	(-)	-0.829	-0.809	-1.074	0.000	0.000	0.000	0.000
31	(RL)	2.327	2.564	2.026	0.000	0.000	0.000	0.000
32	(-)	-0.565	-0.607	-0.702	0.000	0.000	0.000	0.000
33	(RL1)	3.877	3.936	3.351	0.000	0.000	0.000	0.000
34	(-)	-1.084	-1.161	-1.324	0.000	0.000	0.000	0.000
35	(KST6)	2.948	2.826	2.397	0.000	0.000	0.000	0.000
36	(-)	-0.786	-0.932	-1.028	0.000	0.000	0.000	0.000

NO.	LOAD NAME	D-Z (MM)	P-Z (MM)	D-Z (MM)	D-Z (MM)	D-Z (MM)
		29	30	31	32	33
1		0.000	0.000	-0.119	-0.165	-0.183
2		0.000	0.000	-0.353	-0.346	-0.338
3	(+)	0.000	0.000	0.334	0.144	0.037
4	(-)	0.000	0.000	-0.307	-0.184	-0.093
5	(+)	0.000	0.000	1.306	0.845	0.429
6	(-)	0.000	0.000	-1.399	-1.359	-0.968
7	(+)	0.000	0.000	0.159	0.116	0.431
8	(-)	0.000	0.000	-0.132	-0.222	-0.593
9	(+)	0.000	0.000	0.324	0.324	-1.339
10	(-)	0.000	0.000	-0.283	-0.324	-0.154
11	(+)	0.000	0.000	0.516	0.418	0.198
12	(-)	0.000	0.000	-0.343	-0.036	-0.302
13	(+)	0.000	0.000	0.943	0.936	0.154
14	(-)	0.000	0.000	-0.952	-0.989	-0.302
15	(+)	0.000	0.000	0.422	0.505	0.192
16	(-)	0.000	0.000	-0.303	-0.292	-0.204
17	(+)	0.000	0.000	0.030	0.063	0.330
18	(-)	0.000	0.000	-0.051	-0.059	-0.192
19	(+)	0.000	0.000	1.040	1.018	0.128
20	(-)	0.000	0.000	-1.541	-1.571	-0.520
21	(+)	0.000	0.000	0.187	0.170	0.695
22	(-)	0.000	0.000	-0.159	-0.262	-0.622
23	(+)	0.000	0.000	0.929	0.940	-1.135
24	(-)	0.000	0.000	-1.009	-1.390	-0.621
25	(+)	0.000	0.000	0.102	0.124	0.977
26	(-)	0.000	0.000	-0.138	-0.154	-0.454
27	(+)	0.000	0.000	0.705	1.029	0.711
28	(-)	0.000	0.000	-0.819	-0.710	-0.436
29	(+)	0.000	0.000	0.073	0.099	0.654
30	(-)	0.000	0.000	-0.104	-0.138	-0.326
31	(+)	0.000	0.000	0.995	1.422	0.655
32	(-)	0.000	0.000	-1.532	-1.521	-0.335
33	(+)	0.000	0.000	0.778	1.128	1.276
34	(-)	0.000	0.000	-0.923	-0.848	-1.561
35	(+)	0.000	0.000	1.203	1.738	1.001
36	(-)	0.000	0.000	-1.800	-1.832	-0.831
37	(+)	0.000	0.000	0.731	1.084	1.641
38	(-)	0.000	0.000	-1.547	-1.535	-1.830
39	(+)	0.000	0.000	1.215	1.215	1.075
40	(-)	0.000	0.000	-1.413	-1.413	-1.215
41						-1.209

NO.	LOAD NAME	D-Z(MM)	0-Z(MM)	D-Z(MM)	0-Z(MM)	D-Z(MM)	0-Z(MM)	D-Z(MM)	0-Z(MM)
		36	37	38	39	40	41	42	
1		-0.112	-0.014	-0.091	-0.132	-0.130	-0.083	-0.002	
2		-0.340	-0.169	-0.158	-0.149	-0.143	-0.142	-0.143	
3	(+)	0.334	0.478	0.227	0.055	0.055	0.227	0.478	
4	(-)	-0.306	-0.406	-0.259	-0.138	-0.137	-0.256	-0.403	
5	(+)	0.139	1.187	1.718	1.371	0.676	0.745	1.718	
6	(-)	-0.131	-1.553	-1.310	-1.002	-0.639	-0.251	-0.239	
7	(+)	0.862	0.142	0.146	0.679	1.376	1.725	1.195	
8	(-)	-1.399	-0.242	-0.251	-0.636	-0.996	-1.300	-1.541	
9	(+)	0.043	0.549	0.755	0.583	0.301	0.071	0.045	
10	(-)	-0.052	-0.317	-0.409	-0.513	-0.200	-0.095	-0.099	
11	(+)	0.285	0.044	0.071	0.302	0.584	0.737	0.571	
12	(-)	-0.514	-0.099	-0.095	-0.199	-0.311	-0.406	-0.511	
13	(+)	0.030	0.557	0.668	0.520	0.300	0.097	0.030	
14	(-)	-0.051	-0.329	-0.272	-0.208	-0.134	-0.033	-0.081	
15	(+)	0.422	0.029	0.097	0.300	0.520	0.667	0.656	
16	(-)	-0.303	-0.081	-0.053	-0.133	-0.207	-0.270	-0.326	
17	(+)	0.163	1.880	2.081	1.631	0.903	0.262	0.170	
18	(-)	-0.158	-1.821	-1.235	-1.175	-0.759	-0.294	-0.264	
19	(+)	1.310	0.166	0.263	0.903	1.630	2.079	1.878	
20	(-)	-1.640	-0.263	-0.294	-0.744	-1.168	-1.524	-1.807	
21	(+)	0.140	1.209	1.471	1.161	0.615	0.156	0.143	
22	(-)	-0.096	-1.556	-1.319	-1.041	-0.653	-0.253	-0.193	
23	(+)	0.914	0.144	0.158	0.615	1.161	1.470	1.206	
24	(-)	-1.028	-0.193	-0.252	-0.642	-1.010	-1.318	-1.555	
25	(+)	0.073	1.226	1.403	1.103	0.601	0.168	0.075	
26	(-)	-0.103	-0.346	-0.382	-0.521	-0.334	-0.118	-0.180	
27	(+)	0.706	0.073	0.168	0.602	1.104	1.403	1.228	
28	(-)	-0.817	-0.180	-0.148	-0.332	-0.518	-0.676	-0.837	
29	(+)	1.000	1.328	1.663	2.049	2.032	1.800	1.341	
30	(-)	-1.530	-1.293	-1.260	-1.633	-1.633	-1.331	-1.780	
31	(+)	0.779	1.299	1.571	1.705	1.706	1.572	1.303	
32	(-)	-0.920	-1.026	-0.830	-0.854	-0.832	-0.835	-1.017	
33	(+)	1.473	2.046	2.343	2.534	2.333	2.341	2.048	
34	(-)	-1.798	-2.084	-1.930	-1.921	-1.917	-1.818	-2.071	
35	(+)	1.054	1.553	1.629	1.777	1.776	1.626	1.350	
36	(-)	-1.124	-1.749	-1.571	-1.653	-1.653	-1.571	-1.750	

NO.	LOAD NAME	D-Z (MM) 43	D-Z (MM) 44	D-Z (MM) 45	D-Z (MM) 46	D-Z (MM) 47	D-Z (MM) 48	D-Z (MM) 49
1		-0.121	-0.169	-0.184	-0.181	-0.160	-0.111	0.000
2	(+)	-0.359	-0.355	-0.346	-0.340	-0.337	-0.337	0.000
3	(-)	0.334	0.145	0.038	0.037	0.145	0.334	0.000
4	(+)	-0.308	-0.185	-0.094	-0.093	-0.183	-0.306	0.000
	(RUL)	0.865	1.312	0.848	0.431	0.116	0.143	0.000
	(-)	-1.410	-1.350	-0.974	-0.595	-0.230	-0.134	0.000
5	(+)	0.140	0.116	0.431	0.848	1.310	0.862	0.000
	(-)	-0.133	-0.230	-0.592	-0.927	-1.339	-1.399	0.000
6	(+)	0.282	0.523	0.754	0.754	0.536	0.1045	0.000
	(-)	-0.520	-0.422	-0.304	-0.198	-0.088	-0.052	0.000
7	(+)	0.044	0.036	0.154	0.325	0.525	0.284	0.000
	(-)	-0.052	-0.088	-0.197	-0.302	-0.418	-0.514	0.000
8	(+)	0.422	0.506	0.530	0.192	0.063	0.031	0.000
	(-)	-0.305	-0.293	-0.205	-0.128	-0.048	-0.051	0.000
9	(+)	0.030	0.063	0.192	0.330	0.503	0.422	0.000
	(-)	-0.051	-0.048	-0.128	-0.204	-0.232	-0.303	0.000
10	(+)	1.312	1.778	1.171	0.622	0.186	0.168	0.000
	(-)	-1.653	-1.583	-1.142	-0.597	-0.261	-0.161	0.000
11	(+)	0.141	0.141	0.521	1.032	1.574	1.047	0.000
	(-)	-0.160	-0.261	-0.694	-1.134	-1.570	-1.641	0.000
12	(+)	0.916	1.476	0.900	0.454	0.124	0.105	0.000
	(-)	-1.036	-0.992	-0.716	-0.437	-0.183	-0.139	0.000
13	(+)	0.141	0.085	0.317	0.633	0.963	0.634	0.000
	(-)	-0.028	-0.225	-0.597	-0.977	-1.390	-1.609	0.000
14	(+)	0.705	1.028	0.654	0.346	0.099	0.073	0.000
	(-)	-0.825	-0.715	-0.510	-0.327	-0.137	-0.103	0.000
15	(+)	0.074	0.099	0.346	0.655	1.030	0.706	0.000
	(-)	-0.104	-0.137	-0.325	-0.508	-0.710	-0.817	0.000
16	(+)	1.003	1.427	1.279	1.278	1.626	1.003	0.000
	(-)	-1.543	-1.580	-1.566	-1.569	-1.569	-1.533	0.000
17	(+)	0.778	1.127	1.000	1.001	1.129	0.732	0.000
	(-)	-0.928	-0.852	-0.834	-0.833	-0.847	-0.920	0.000
18	(+)	1.476	1.919	1.693	1.644	1.762	1.214	0.000
	(-)	-1.813	-1.844	-1.836	-1.832	-1.830	-1.802	0.000
19	(+)	1.057	1.561	1.214	1.077	1.087	0.739	0.000
	(-)	-1.134	-1.236	-1.372	-1.414	-1.534	-1.549	0.000

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	D-1 (MM) 50	D-2 (MM) 51	D-3 (MM) 52	D-4 (MM) 53	D-5 (MM) 54	D-6 (MM) 55	D-7 (MM) 56
1		0.000	0.000	0.000	0.000	0.000	1.146	1.052
2		0.000	0.000	0.000	0.000	0.000	2.450	2.463
3	(+)	0.000	0.000	0.000	0.000	0.000	0.486	0.247
4	(-)	0.000	0.000	0.000	0.000	0.000	-0.237	-0.127
5	(+)	0.000	0.000	0.000	0.000	0.000	3.713	3.947
6	(-)	0.000	0.000	0.000	0.000	0.000	-0.768	-0.768
7	(+)	0.000	0.000	0.000	0.000	0.000	0.082	0.564
8	(-)	0.000	0.000	0.000	0.000	0.000	-0.104	-0.104
9	(+)	0.000	0.000	0.000	0.000	0.000	1.384	1.432
10	(-)	0.000	0.000	0.000	0.000	0.000	-0.210	-0.240
11	(+)	0.000	0.000	0.000	0.000	0.000	0.026	0.207
12	(-)	0.000	0.000	0.000	0.000	0.000	-0.150	-0.032
13	(+)	0.000	0.000	0.000	0.000	0.000	0.630	0.646
14	(-)	0.000	0.000	0.000	0.000	0.000	-0.276	-0.293
15	(+)	0.000	0.000	0.000	0.000	0.000	0.098	0.096
16	(-)	0.000	0.000	0.000	0.000	0.000	-0.070	-0.043
17	(+)	0.000	0.000	0.000	0.000	0.000	3.286	3.467
18	(-)	0.000	0.000	0.000	0.000	0.000	-0.966	-1.041
19	(+)	0.000	0.000	0.000	0.000	0.000	0.098	0.500
20	(-)	0.000	0.000	0.000	0.000	0.000	-0.367	-0.125
21	(+)	0.000	0.000	0.000	0.000	0.000	2.533	2.421
22	(-)	0.000	0.000	0.000	0.000	0.000	-0.721	-0.860
23	(+)	0.000	0.000	0.000	0.000	0.000	0.060	0.428
24	(-)	0.000	0.000	0.000	0.000	0.000	-0.314	-0.074
25	(+)	0.000	0.000	0.000	0.000	0.000	1.974	2.078
26	(-)	0.000	0.000	0.000	0.000	0.000	-0.486	-0.533
27	(+)	0.000	0.000	0.000	0.000	0.000	0.033	0.303
28	(-)	0.000	0.000	0.000	0.000	0.000	-0.220	-0.074
29	(+)	0.000	0.000	0.000	0.000	0.000	3.794	4.311
30	(-)	0.000	0.000	0.000	0.000	0.000	-1.051	-0.872
31	(+)	0.000	0.000	0.000	0.000	0.000	2.047	2.381
32	(-)	0.000	0.000	0.000	0.000	0.000	-0.707	-0.669
33	(+)	0.000	0.000	0.000	0.000	0.000	3.385	3.968
34	(-)	0.000	0.000	0.000	0.000	0.000	-1.323	-1.166
35	(+)	0.000	0.000	0.000	0.000	0.000	2.423	2.849
36	(-)	0.000	0.000	0.000	0.000	0.000	-1.035	-0.936

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	D-Z(MM)	D-Z(MM)	D-Z(MM)	D-Z(MM)	D-Z(MM)	D-Z(MM)
		57	58	59	60	61	62
1		0.990	0.988	1.028	1.121	2.022	1.824
2		2.444	2.429	2.415	2.400	4.310	4.272
3	(+)	0.103	0.101	0.240	0.480	0.736	0.591
4	(+)	-0.044	-0.044	-0.127	-0.258	-0.429	-0.576
5	(+)	2.733	1.615	0.583	0.083	6.412	6.120
6	(+)	-0.528	-0.304	-0.104	-0.415	-0.868	-0.752
7	(+)	1.609	2.714	3.905	3.675	0.093	0.951
8	(+)	-0.304	-0.326	-0.764	-0.670	-0.441	-0.441
9	(+)	1.010	0.593	0.207	0.026	2.338	2.227
10	(+)	-0.165	-0.095	-0.032	-0.153	-0.235	-0.183
11	(+)	0.591	1.003	1.416	1.350	0.029	0.247
12	(+)	-0.025	-0.164	-0.232	-0.209	-0.244	-0.244
13	(+)	0.460	0.276	0.026	0.028	1.049	0.991
14	(+)	-0.190	-0.117	-0.043	-0.072	-0.330	-0.308
15	(+)	0.275	0.457	0.642	0.624	0.030	0.157
16	(+)	-0.117	-0.117	-0.222	-0.225	-0.053	-0.333
17	(+)	2.458	1.438	0.500	0.099	5.445	5.137
18	(+)	-0.721	-0.424	-0.150	-0.373	-1.221	-1.043
19	(+)	1.433	2.442	3.432	3.256	0.111	0.817
20	(+)	-0.366	-0.332	-0.279	-0.808	-0.616	-0.465
21	(+)	1.733	1.026	0.358	0.088	4.103	3.922
22	(+)	-0.565	-0.325	-0.111	-0.264	-0.934	-0.813
23	(+)	1.226	2.397	3.044	2.784	0.068	0.699
24	(+)	-0.223	-0.386	-0.562	-0.492	-0.527	-0.403
25	(+)	1.470	0.869	0.303	0.054	3.387	3.218
26	(+)	-0.355	-0.212	-0.076	-0.224	-0.601	-0.507
27	(+)	0.866	1.459	2.039	1.974	0.059	0.505
28	(+)	-0.212	-0.353	-0.531	-0.484	-0.385	-0.097
29	(+)	4.342	4.328	4.468	3.758	6.505	7.071
30	(+)	-0.831	-0.830	-0.868	-1.085	-1.600	-0.892
31	(+)	2.336	2.329	2.361	2.028	3.466	3.722
32	(+)	-0.566	-0.566	-0.606	-0.708	-0.987	-0.839
33	(+)	3.891	3.879	3.931	3.355	5.356	5.953
34	(+)	-1.088	-1.045	-1.069	-1.181	-1.838	-1.249
35	(+)	2.359	3.133	3.403	2.874	4.172	4.621
36	(+)	-0.789	-0.711	-0.673	-0.756	-1.462	-0.916

NO.	LOAD NAME	D-Z(MM) 64	D-Z(MM) 65	D-Z(MM) 66	D-Z(MM) 67	D-Z(MM) 68	D-Z(MM) 69	D-Z(MM) 70
1		1.489	1.783	1.949	1.691	1.402	1.316	1.307
2		4.214	4.189	4.163	3.344	3.321	3.298	3.280
3	(+)	0.149	0.379	0.715	0.594	0.263	0.107	0.104
4	(-)	-0.068	-0.175	-0.289	-0.192	-0.119	-0.069	-0.048
5	(+)	2.792	0.950	0.094	4.831	5.411	5.563	5.027
6	(-)	-0.372	-0.140	-0.737	-0.589	-0.433	-0.360	-0.239
7	(+)	6.693	6.046	6.284	6.059	6.684	6.020	3.539
8	(-)	-0.581	-0.745	-0.855	-0.537	-0.024	-0.239	-0.338
9	(+)	1.020	0.347	0.029	1.757	1.928	1.295	0.737
10	(-)	-0.116	-0.044	-0.268	-0.184	-0.135	-0.112	-0.075
11	(+)	1.708	2.200	2.291	0.019	0.249	0.734	1.287
12	(-)	-0.182	-0.233	-0.267	-0.202	-0.050	-0.075	-0.112
13	(+)	0.457	0.157	0.030	0.782	0.874	0.549	0.327
14	(-)	-0.134	-0.053	-0.120	-0.217	-0.168	-0.129	-0.084
15	(+)	0.761	0.980	1.029	0.020	0.112	0.320	0.545
16	(-)	-0.207	-0.270	-0.326	-0.289	-0.034	-0.034	-0.128
17	(+)	2.370	0.816	0.122	4.052	4.234	2.934	1.693
18	(-)	-0.511	-0.196	-0.621	-0.822	-0.609	-0.496	-0.327
19	(+)	3.942	3.077	3.340	0.071	0.582	1.688	2.914
20	(-)	-0.698	-1.029	-1.029	-0.860	-0.713	-0.286	-0.429
21	(+)	1.791	0.607	0.101	3.096	3.547	2.299	1.300
22	(-)	-0.399	-0.151	-0.472	-0.637	-0.464	-0.392	-0.260
23	(+)	3.372	4.342	4.568	0.044	0.898	1.444	2.470
24	(-)	-0.427	-0.547	-0.629	-0.393	-0.269	-0.176	-0.263
25	(+)	1.476	0.504	0.060	2.539	2.802	1.844	1.064
26	(-)	-0.250	-0.097	-0.388	-0.601	-0.303	-0.262	-0.159
27	(+)	2.468	3.180	3.320	0.039	0.362	1.060	1.832
28	(-)	-0.388	-0.503	-0.593	-0.291	-0.064	-0.139	-0.240
29	(+)	7.491	6.996	6.378	4.890	6.095	5.583	5.256
30	(-)	-0.923	-0.885	-1.593	-1.166	-0.528	-0.539	-0.257
31	(+)	3.945	3.685	3.380	2.578	3.165	2.905	2.896
32	(-)	-0.638	-0.600	-0.981	-0.692	-0.367	-0.501	-0.339
33	(+)	6.312	5.892	5.462	4.123	4.816	4.632	4.608
34	(-)	-1.209	-1.091	-1.650	-1.282	-0.732	-0.782	-0.756
35	(+)	5.163	4.949	4.669	3.140	4.045	3.743	3.769
36	(-)	-0.826	-0.698	-1.101	-1.031	-0.534	-0.557	-0.523

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	D-Z(MM) 71	D-Z(MM) 72	D-Z(MM) 73	D-Z(MM) 74	D-Z(MM) 75	D-Z(MM) 76	D-Z(MM) 77
1		1.378	1.540	0.000	0.000	0.000	0.000	0.000
2		3.242	3.240	0.000	0.000	0.000	0.000	0.000
3	(+)	0.254	0.545	0.000	0.000	0.000	0.000	0.000
4	(-)	-0.118	-0.186	0.000	0.000	0.000	0.000	0.000
5	(+)	0.583	0.588	0.000	0.000	0.000	0.000	0.000
6	(-)	-0.094	-0.537	0.000	0.000	0.000	0.000	0.000
7	(+)	5.359	4.335	0.000	0.000	0.000	0.000	0.000
8	(-)	-0.528	-0.561	0.000	0.000	0.000	0.000	0.000
9	(+)	0.249	0.018	0.000	0.000	0.000	0.000	0.000
10	(-)	-0.029	-0.195	0.000	0.000	0.000	0.000	0.000
11	(+)	1.909	1.650	0.000	0.000	0.000	0.000	0.000
12	(-)	-0.134	-0.175	0.000	0.000	0.000	0.000	0.000
13	(+)	0.112	0.020	0.000	0.000	0.000	0.000	0.000
14	(-)	-0.034	-0.086	0.000	0.000	0.000	0.000	0.000
15	(+)	0.868	0.735	0.000	0.000	0.000	0.000	0.000
16	(-)	-0.166	-0.207	0.000	0.000	0.000	0.000	0.000
17	(+)	0.581	0.076	0.000	0.000	0.000	0.000	0.000
18	(-)	-0.130	-0.445	0.000	0.000	0.000	0.000	0.000
19	(+)	4.190	3.810	0.000	0.000	0.000	0.000	0.000
20	(-)	-0.516	-0.674	0.000	0.000	0.000	0.000	0.000
21	(+)	0.437	0.064	0.000	0.000	0.000	0.000	0.000
22	(-)	-0.101	-0.345	0.000	0.000	0.000	0.000	0.000
23	(+)	3.506	3.259	0.000	0.000	0.000	0.000	0.000
24	(-)	-0.315	-0.412	0.000	0.000	0.000	0.000	0.000
25	(+)	0.361	0.038	0.000	0.000	0.000	0.000	0.000
26	(-)	-0.064	-0.281	0.000	0.000	0.000	0.000	0.000
27	(+)	2.777	2.585	0.000	0.000	0.000	0.000	0.000
28	(-)	-0.300	-0.382	0.000	0.000	0.000	0.000	0.000
29	(+)	6.042	4.594	0.000	0.000	0.000	0.000	0.000
30	(-)	-0.522	-1.028	0.000	0.000	0.000	0.000	0.000
31	(+)	3.138	2.423	0.000	0.000	0.000	0.000	0.000
32	(-)	-0.363	-0.664	0.000	0.000	0.000	0.000	0.000
33	(+)	4.771	3.886	0.000	0.000	0.000	0.000	0.000
34	(-)	-0.644	-1.119	0.000	0.000	0.000	0.000	0.000
35	(+)	3.943	3.522	0.000	0.000	0.000	0.000	0.000
36	(-)	-0.416	-0.757	0.000	0.000	0.000	0.000	0.000



\*\*RAILWAY BRIDGE\*\*

8-2(88)  
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NO.	LOAD NAME	
1		0.000
2		0.000
3	(+)	0.000
4	(RUL)	0.000
5	(RUR)	0.000
6	(RL1L)	0.000
7	(RL1R)	0.000
8	(RL2L)	0.000
9	(RL2R)	0.000
10	(RL1L)	0.000
11	(RL1R)	0.000
12	(XS16L)	0.000
13	(KS16R)	0.000
14	(KLL)	0.000
15	(KLR)	0.000
16	(RU)	0.000
17	(RL)	0.000
18	(RL1)	0.000
19	(KS16)	0.000

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	M-Y(T,M)	Q-Z(L)	M-Y(I,H)	Q-Z(L)	M-Y(I,H)	Q-Z(L)	M-Y(I,M)	Q-Z(L)	M-Y(I,M)
1		-0.000	12.441	39.954	-4.346	39.954	6.366	39.954	41.377	41.377
2		0.000	23.959	80.059	-9.679	80.059	9.679	80.059	82.164	82.164
3	(+)	0.000	4.459	13.634	1.282	13.634	1.970	13.634	12.088	12.088
4	(+)	0.000	-0.502	-2.589	-1.970	-2.589	-1.202	-2.589	-4.778	-4.778
5	(+)	0.000	17.292	82.308	1.649	82.308	17.292	82.308	164.615	164.615
6	(+)	0.000	-1.649	-7.850	-17.292	-7.850	-1.649	-7.850	-15.700	-15.700
7	(+)	0.000	0.137	0.652	2.041	0.652	0.137	0.652	1.304	1.304
8	(+)	0.000	-2.041	-9.714	-0.137	-9.714	-2.041	-9.714	-19.428	-19.428
9	(+)	0.000	6.264	29.815	6.264	29.815	6.264	29.815	59.631	59.631
10	(+)	0.000	-6.264	-24.453	-6.264	-24.453	-6.264	-24.453	-48.906	-48.906
11	(+)	0.000	0.315	0.736	0.204	0.736	0.315	0.736	1.472	1.472
12	(+)	0.000	-0.736	-3.503	-0.204	-3.503	-0.736	-3.503	-7.005	-7.005
13	(+)	0.000	2.737	13.028	0.618	13.028	2.737	13.028	26.055	26.055
14	(+)	0.000	-2.737	-24.940	-2.737	-24.940	-2.737	-24.940	-49.880	-49.880
15	(+)	0.000	0.618	0.259	0.054	0.259	0.618	0.259	0.518	0.518
16	(+)	0.000	-0.315	-1.501	-0.054	-1.501	-0.315	-1.501	-3.003	-3.003
17	(+)	0.000	14.142	67.314	1.981	67.314	14.142	67.314	134.627	134.627
18	(+)	0.000	-1.981	-9.430	-14.142	-9.430	-1.981	-9.430	-18.861	-18.861
19	(+)	0.000	0.178	0.846	1.824	0.178	0.178	0.846	1.692	1.692
20	(+)	0.000	-1.624	-7.729	-0.178	-7.729	-1.624	-7.729	-15.458	-15.458
21	(+)	0.000	12.092	57.558	1.212	57.558	12.092	57.558	115.115	115.115
22	(+)	0.000	-1.212	-5.770	-12.092	-5.770	-1.212	-5.770	-11.540	-11.540
23	(+)	0.000	0.159	0.755	1.317	0.159	0.159	0.755	1.510	1.510
24	(+)	0.000	-1.317	-6.267	-0.159	-6.267	-1.317	-6.267	-12.535	-12.535
25	(+)	0.000	9.001	42.843	1.133	42.843	9.001	42.843	85.686	85.686
26	(+)	0.000	-9.001	-5.393	-9.001	-5.393	-9.001	-5.393	-10.786	-10.786
27	(+)	0.000	0.097	0.462	1.051	0.097	0.097	0.462	0.925	0.925
28	(+)	0.000	-1.051	-5.004	-0.097	-5.004	-1.051	-5.004	-10.008	-10.008
29	(+)	0.000	17.428	82.959	3.690	82.959	17.428	82.959	165.919	165.919
30	(+)	0.000	-3.690	-17.564	-17.428	-17.564	-3.690	-17.564	-35.128	-35.128
31	(+)	0.000	9.098	43.306	2.184	43.306	9.098	43.306	86.611	86.611
32	(+)	0.000	-2.184	-10.397	-9.098	-10.397	-2.184	-10.397	-20.794	-20.794
33	(+)	0.000	14.319	68.160	3.605	68.160	14.319	68.160	136.319	136.319
34	(+)	0.000	-3.605	-17.159	-14.319	-17.159	-3.605	-17.159	-34.319	-34.319
35	(+)	0.000	12.251	58.513	2.529	58.513	12.251	58.513	116.626	116.626
36	(+)	0.000	-2.529	-12.037	-12.251	-12.037	-2.529	-12.037	-24.074	-24.074

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	Q-Z(L)		M-Y(T,M)		Q-Z(L)		M-Y(T,M)		Q-Z(L)	
		13	7	13	19	13	19	13	19	13	19
1		3.749	41.377	-1.444	15.236	9.539	15.236	9.539	15.236	-9.539	-9.539
2		4.601	92.145	-5.831	30.404	20.111	30.404	20.111	30.404	-20.111	-20.111
3	(+)	3.142	12.087	2.990	9.847	3.194	9.847	3.194	9.847	0.959	0.959
4	(-)	-0.720	-4.778	-1.535	-5.584	-0.929	-5.584	-0.929	-5.584	-5.194	-5.194
5	(RUL)	1.649	164.615	0.901	31.662	27.948	31.662	27.948	31.662	0.901	0.901
6	(-)	-20.713	-15.700	-33.089	-14.209	-0.901	-14.209	-0.901	-14.209	-27.948	-27.948
7	(RUR)	2.435	1.304	4.738	2.097	0.137	2.097	0.137	2.097	3.523	3.523
8	(+)	-0.137	-0.137	-0.137	-3.065	-3.525	-3.065	-3.525	-3.065	-0.137	-0.137
9	(RL1L)	0.515	59.631	0.282	12.098	9.995	12.098	9.995	12.098	0.282	0.282
10	(-)	-6.948	-4.906	-11.023	-4.640	-0.282	-4.640	-0.282	-4.640	-9.995	-9.995
11	(RL1R)	0.815	0.407	1.374	0.655	0.043	0.655	0.043	0.655	1.251	1.251
12	(-)	-0.043	-7.005	-0.268	-1.061	-1.251	-1.061	-1.251	-1.061	-0.043	-0.043
13	(RL2L)	0.618	26.055	0.268	6.481	4.112	6.481	4.112	6.481	0.268	0.268
14	(-)	-2.732	-5.880	-4.112	-6.608	-0.268	-6.608	-0.268	-6.608	-4.112	-4.112
15	(RL2R)	0.315	0.318	0.990	0.779	0.032	0.779	0.032	0.779	0.490	0.490
16	(-)	-0.054	-3.003	-0.032	-0.032	-0.490	-0.032	-0.490	-0.032	-0.032	-0.032
17	(RL1L)	1.981	134.627	1.056	34.595	21.708	34.595	21.708	34.595	1.056	1.056
18	(-)	-18.247	-18.861	-27.876	-17.239	-1.056	-17.239	-1.056	-17.239	-21.708	-21.708
19	(RL1R)	2.097	1.692	3.282	2.366	0.160	2.366	0.160	2.366	2.852	2.852
20	(+)	-0.178	-15.458	-0.160	-3.593	-2.852	-3.593	-2.852	-3.593	-0.160	-0.160
21	(KS16L)	1.212	115.115	0.662	29.675	18.772	29.675	18.772	29.675	0.662	0.662
22	(-)	-1.506	-11.540	-22.399	-10.444	-0.662	-10.444	-0.662	-10.444	-18.772	-18.772
23	(KS16R)	1.595	1.310	2.767	2.192	0.144	2.192	0.144	2.192	2.334	2.334
24	(-)	-0.159	-12.535	-0.144	-2.553	-2.334	-2.553	-2.334	-2.553	-0.144	-0.144
25	(RL1L)	1.133	85.686	0.350	18.580	14.107	18.580	14.107	18.580	0.350	0.350
26	(-)	-0.685	-10.786	-15.135	-11.068	-0.350	-11.068	-0.350	-11.068	-14.107	-14.107
27	(RL1R)	1.130	0.925	1.864	1.864	0.075	1.864	0.075	1.864	1.741	1.741
28	(+)	-0.097	-10.008	-0.075	-1.731	-1.741	-1.731	-1.741	-1.731	-0.075	-0.075
29	(RU)	4.084	165.919	5.039	33.759	28.055	33.759	28.055	33.759	4.084	4.084
30	(-)	-20.850	-35.128	-33.225	-17.274	-4.084	-17.274	-4.084	-17.274	-28.055	-28.055
31	(RL)	2.263	86.611	2.613	20.014	14.162	20.014	14.162	20.014	2.263	2.263
32	(+)	-9.782	-20.794	-15.210	-12.779	-2.291	-12.779	-2.291	-12.779	-14.162	-14.162
33	(RL1)	4.078	136.319	4.638	37.121	21.868	37.121	21.868	37.121	3.908	3.908
34	(-)	-18.425	-34.319	-28.036	-20.822	-3.908	-20.822	-3.908	-20.822	-21.868	-21.868
35	(KS16)	2.807	116.626	3.429	31.867	18.917	31.867	18.917	31.867	2.996	2.996
36	(-)	-14.665	-24.074	-22.563	-12.697	-2.996	-12.697	-2.996	-12.697	-18.917	-18.917

NO.	LOAD NAME	M-Y(T,M)		Q-Z(T)		M-Y(T,M)		Q-Z(T)		M-Y(T,M)		Q-Z(T)	
		25	19	25	19	25	19	25	19	25	19	25	19
1		-49,436	17,834	-69,436	14,456	-2,023	-6,908	-2,023	-6,908	-2,023	-6,908	-2,023	-6,908
2		-99,309	34,591	-99,309	27,134	-8,424	-13,819	-8,424	-13,819	-8,424	-13,819	-8,424	-13,819
3	(+)	3,137	5,898	3,137	5,679	8,647	1,186	8,647	1,186	8,647	1,186	8,647	1,186
4	(-)	-17,102	-0,474	-17,102	-0,695	-7,087	-3,197	-7,087	-3,197	-7,087	-3,197	-7,087	-3,197
5	(+)	17,293	27,948	17,293	18,243	20,204	5,311	20,204	5,311	20,204	5,311	20,204	5,311
6	(-)	-101,453	-0,901	-101,453	-5,311	-46,401	-18,243	-46,401	-18,243	-46,401	-18,243	-46,401	-18,243
7	(+)	14,131	0,137	14,131	0,451	4,648	2,822	4,648	2,822	4,648	2,822	4,648	2,822
8	(-)	-1,731	5,923	-1,731	-2,872	-2,725	-0,451	-2,725	-0,451	-2,725	-0,451	-2,725	-0,451
9	(+)	5,404	9,995	5,404	6,595	6,514	1,660	6,514	1,660	6,514	1,660	6,514	1,660
10	(-)	-35,610	-0,282	-35,610	-1,660	-17,651	-6,595	-17,651	-6,595	-17,651	-6,595	-17,651	-6,595
11	(+)	4,909	0,083	4,909	0,141	1,756	1,018	1,756	1,018	1,756	1,018	1,756	1,018
12	(-)	-0,541	-1,231	-0,541	-1,018	-0,852	-0,441	-0,852	-0,441	-0,852	-0,441	-0,852	-0,441
13	(+)	3,590	4,112	3,590	3,235	6,371	1,078	6,371	1,078	6,371	1,078	6,371	1,078
14	(-)	-13,092	-0,248	-13,092	-1,078	-9,508	-3,235	-9,508	-3,235	-9,508	-3,235	-9,508	-3,235
15	(+)	1,664	0,032	1,664	0,112	1,033	0,440	1,033	0,440	1,033	0,440	1,033	0,440
16	(-)	-0,382	-0,490	-0,382	-0,640	-0,725	-0,412	-0,725	-0,412	-0,725	-0,412	-0,725	-0,412
17	(+)	20,276	21,708	20,276	18,655	24,226	6,227	24,226	6,227	24,226	6,227	24,226	6,227
18	(-)	-101,181	-1,056	-101,180	-6,227	-50,075	-18,655	-50,075	-18,655	-50,075	-18,655	-50,075	-18,655
19	(+)	13,781	0,140	13,781	0,529	5,449	2,685	5,449	2,685	5,449	2,685	5,449	2,685
20	(-)	-2,832	-2,832	-2,832	-4,683	-3,256	-0,529	-3,256	-0,529	-3,256	-0,529	-3,256	-0,529
21	(+)	12,711	18,772	12,711	15,921	14,851	3,903	14,851	3,903	14,851	3,903	14,851	3,903
22	(-)	-86,762	-0,462	-86,762	-3,903	-42,898	-15,921	-42,898	-15,921	-42,898	-15,921	-42,898	-15,921
23	(+)	10,458	0,144	10,458	0,480	3,417	1,981	3,417	1,981	3,417	1,981	3,417	1,981
24	(-)	-1,802	-2,334	-1,802	-1,981	-2,817	-0,480	-2,817	-0,480	-2,817	-0,480	-2,817	-0,480
25	(+)	14,107	14,107	8,995	9,830	2,738	2,738	2,738	2,738	2,738	2,738	2,738	2,738
26	(-)	-48,703	-0,510	-48,703	-2,738	-27,159	-9,830	-27,159	-9,830	-27,159	-9,830	-27,159	-9,830
27	(+)	6,574	0,075	6,574	0,253	2,789	1,457	2,789	1,457	2,789	1,457	2,789	1,457
28	(-)	-0,923	-1,771	-0,923	-1,457	-1,577	-0,253	-1,577	-0,253	-1,577	-0,253	-1,577	-0,253
29	(+)	31,424	28,085	31,424	18,694	24,853	8,183	24,853	8,183	24,853	8,183	24,853	8,183
30	(-)	-103,185	-4,426	-103,184	-8,183	-49,126	-18,694	-49,126	-18,694	-49,126	-18,694	-49,126	-18,694
31	(+)	15,568	14,132	15,568	10,083	15,474	4,195	15,474	4,195	15,474	4,195	15,474	4,195
32	(-)	-49,626	-2,291	-49,626	-4,195	-28,736	-10,083	-28,736	-10,083	-28,736	-10,083	-28,736	-10,083
33	(+)	34,058	21,868	34,058	19,183	29,676	8,912	29,676	8,912	29,676	8,912	29,676	8,912
34	(-)	-103,210	-3,908	-103,210	-8,912	-53,330	-19,183	-53,330	-19,183	-53,330	-19,183	-53,330	-19,183
35	(+)	23,149	18,917	23,149	14,402	18,267	5,884	18,267	5,884	18,267	5,884	18,267	5,884
36	(-)	-88,563	-2,936	-88,563	-5,884	-45,714	-16,402	-45,714	-16,402	-45,714	-16,402	-45,714	-16,402

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	Q-Z ( I )		M-Y ( T, M )		Q-Z ( T )		M-Y ( I, M )	
		31 - 37	37 - 31	37 - 31	31 - 37	37 - 43	43 - 37	43 - 37	37 - 43
1		0.908	11.888	0.640	11.888	0.601	-2.197	-2.197	6.948
2		13.819	23.361	-0.503	23.361	-0.582	-8.724	-8.724	13.828
3	(+)	3.197	10.328	2.710	10.328	2.700	8.657	8.657	3.198
4	(-)	-1.186	-6.445	-1.747	-6.445	-1.748	-7.147	-7.147	-1.176
5	(+)	18.243	73.927	5.311	73.927	5.264	20.254	20.254	18.285
6	(-)	-3.311	-29.855	-2.287	-29.855	-2.255	-46.752	-46.752	-3.264
7	(+)	0.451	2.272	3.421	2.272	3.426	4.682	4.682	0.446
8	(-)	-2.972	-12.582	-0.451	-12.582	-0.446	-2.734	-2.734	-2.877
9	(+)	6.395	29.190	1.660	29.190	1.645	6.342	6.342	6.607
10	(-)	-1.660	-9.350	-1.404	-9.350	-1.405	-17.794	-17.794	-1.645
11	(+)	0.141	0.710	1.127	0.710	1.129	1.773	1.773	0.179
12	(-)	-1.018	-4.702	-0.141	-4.702	-0.139	-0.854	-0.854	-1.019
13	(+)	3.335	20.729	1.078	20.729	1.072	6.382	6.382	3.232
14	(-)	-1.078	-8.289	-1.235	-8.289	-1.232	-9.577	-9.577	-1.072
15	(+)	0.112	0.611	0.440	0.611	0.439	1.041	1.041	0.111
16	(-)	-0.440	-2.676	-0.112	-2.676	-0.111	-0.726	-0.726	-0.439
17	(+)	18.655	64.416	6.227	64.416	6.172	24.352	24.352	18.656
18	(-)	-6.227	-23.004	-2.307	-23.004	-2.305	-50.453	-50.453	-6.172
19	(+)	0.529	2.663	3.344	2.663	3.344	5.839	5.839	0.523
20	(-)	-2.663	-10.050	-0.529	-10.050	-0.523	-3.266	-3.266	-2.685
21	(+)	15.321	55.531	5.903	55.531	5.397	21.170	21.170	15.329
22	(-)	-3.903	-20.567	-10.770	-20.567	-15.080	-31.820	-31.820	-3.977
23	(+)	0.880	2.463	2.368	2.463	2.675	4.703	4.703	0.828
24	(-)	-1.981	-8.588	-0.480	-8.588	-0.328	-2.010	-2.010	-1.989
25	(+)	0.330	4.919	2.738	4.919	2.716	12.724	12.724	0.339
26	(-)	-2.738	-15.619	-0.330	-15.619	-0.326	-27.372	-27.372	-2.716
27	(+)	0.253	1.521	1.567	1.521	1.568	2.813	2.813	0.250
28	(-)	-1.521	-7.378	-0.253	-7.378	-0.250	-1.580	-1.580	-1.459
29	(+)	18.894	76.249	8.732	76.249	8.690	24.977	24.977	18.731
30	(-)	-8.732	-42.436	-2.738	-42.436	-2.771	-49.526	-49.526	-8.741
31	(+)	10.083	51.240	4.305	51.240	4.285	15.537	15.537	10.090
32	(-)	-4.305	-22.997	-10.891	-22.997	-10.898	-28.952	-28.952	-4.175
33	(+)	19.183	67.019	9.571	67.019	9.516	29.822	29.822	19.179
34	(-)	-8.912	-45.054	-24.036	-45.054	-24.027	-53.700	-53.700	-8.857
35	(+)	16.402	57.995	6.272	57.995	6.072	25.873	25.873	16.557
36	(-)	-3.884	-19.154	-19.250	-19.154	-15.408	-33.630	-33.630	-7.686

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	M-Y(T,M) 43 - 49	Q-Z(L,Y) 43 - 49	M-Y(T,M) 49 - 43	Q-Z(L,Y) 49 - 43	M-Y(T,M) 49 - 55	Q-Z(L,Y) 49 - 55	M-Y(T,M) 55 - 49
1		-2.197	-6.948	-49.785	14.496	-49.785	17.535	14.404
2		-8.774	-13.898	-100.010	27.213	-100.010	34.187	28.734
3	(+)	8.657	1.176	3.106	-0.680	3.106	5.866	9.708
4	(-)	-7.147	-3.198	-17.170	0.684	-17.170	-0.470	-5.679
5	(+)	20.294	5.264	17.122	-18.285	17.122	27.734	30.017
6	(-)	-46.792	-18.285	-102.093	5.264	-102.093	-0.905	-14.145
7	(+)	4.682	2.877	14.204	0.646	14.204	0.136	2.096
8	(-)	-2.734	-0.446	-1.714	-2.877	-1.714	-3.501	-2.943
9	(+)	6.342	1.645	5.351	6.607	5.351	9.917	11.501
10	(-)	-17.794	-6.607	-35.836	-1.645	-35.836	-0.283	-4.420
11	(+)	1.773	1.019	4.935	0.139	4.935	0.033	0.655
12	(-)	-0.854	-0.139	-0.336	-1.019	-0.336	-1.252	-0.823
13	(+)	6.362	1.072	3.552	3.232	3.552	4.077	6.232
14	(-)	-9.577	-3.232	-13.175	-1.072	-13.175	-0.260	-6.583
15	(+)	1.041	0.439	1.675	0.111	1.675	0.032	0.775
16	(-)	-0.726	-0.111	-0.380	-0.439	-0.380	-0.486	-0.641
17	(+)	24.332	6.172	20.075	-18.656	20.075	21.563	33.366
18	(-)	-50.333	-18.656	-101.483	-6.172	-101.483	-1.061	-21.000
19	(+)	5.489	2.685	13.820	0.523	13.820	0.160	2.525
20	(-)	-3.266	-0.523	-2.009	-2.685	-2.009	-2.834	-3.430
21	(+)	21.170	5.397	17.379	-12.229	17.379	18.014	20.881
22	(-)	-31.620	-12.229	-73.787	5.397	-73.787	-0.925	-15.006
23	(+)	4.703	2.289	11.845	0.328	11.845	0.100	1.541
24	(-)	-2.010	-0.328	-1.260	-2.289	-1.260	-2.447	-2.962
25	(+)	12.774	2.716	8.903	9.839	8.903	13.994	17.733
26	(-)	-27.312	-9.839	-49.011	-2.716	-49.011	-0.543	-10.974
27	(+)	2.813	1.459	6.608	0.250	6.608	0.075	1.439
28	(-)	-1.580	-0.250	-0.915	-1.459	-0.915	-1.228	-1.633
29	(+)	24.917	8.141	31.325	-18.731	31.325	27.870	32.113
30	(-)	-49.528	-18.731	-103.802	8.141	-103.802	-4.405	-17.087
31	(+)	15.537	4.175	15.511	10.090	15.511	14.069	19.165
32	(-)	-28.932	-10.090	-49.927	-4.175	-49.927	-2.271	-12.608
33	(+)	29.882	8.857	33.895	-19.179	33.895	21.723	35.830
34	(-)	-33.700	-19.179	-103.492	8.857	-103.492	-3.895	-24.450
35	(+)	25.873	7.686	29.225	-12.557	29.225	18.114	22.422
36	(-)	-33.630	-12.557	-75.047	-7.686	-75.047	-3.372	-17.937

\*\* RAILWAY BRIDGE \*\*

NO.	LOAD NAME	Q-Z(I, J)		M-Y(I, M)		Q-Z(I, J)		M-Y(I, M)		Q-Z(I, J)	
		55 - 49	55 - 61	55 - 49	55 - 61	61 - 55	61 - 67	61 - 55	61 - 67	61 - 55	61 - 67
1		-9.438	14.404	9.438	40.060	-1.343	40.074	-1.343	40.074	-1.343	3.888
2		-19.907	28.734	19.907	82.505	-5.827	89.522	-5.827	89.522	-5.827	4.831
3	(+)	0.956	4.708	3.163	11.639	2.493	11.684	2.493	11.684	2.493	5.168
4	(-)	-3.163	-5.679	-0.956	-4.708	-1.509	-4.701	-1.509	-4.701	-1.509	-0.707
5	(+)	0.905	30.017	27.734	161.932	0.905	161.961	0.905	161.961	0.905	1.629
6	(-)	-27.734	-14.115	-0.905	-15.504	-32.830	-15.507	-32.830	-15.507	-32.830	-20.376
7	(+)	3.501	2.096	0.136	1.291	4.108	1.291	4.108	1.291	4.108	2.397
8	(-)	-0.136	-2.943	-3.501	-19.121	-0.136	-19.124	-0.136	-19.124	-0.136	-0.509
9	(+)	0.283	1.501	0.917	58.662	0.283	58.662	0.283	58.662	0.283	0.509
10	(-)	-2.217	-4.420	-0.283	-4.845	-10.936	-4.845	-10.936	-4.845	-10.936	-6.825
11	(+)	1.342	0.655	0.043	1.342	1.364	0.403	1.364	0.403	1.364	0.802
12	(-)	-0.043	-0.993	-1.242	-6.895	-0.043	-6.896	-0.043	-6.896	-0.043	-0.802
13	(+)	0.260	6.232	4.077	25.639	0.260	25.644	0.260	25.644	0.260	0.608
14	(-)	-4.077	-6.532	-0.260	-5.785	-4.077	-5.786	-4.077	-5.786	-4.077	-2.693
15	(+)	0.486	0.775	0.032	0.510	0.486	0.510	0.486	0.510	0.486	0.311
16	(-)	-0.032	-0.641	-0.486	-2.956	-0.032	-2.957	-0.032	-2.957	-0.032	-0.311
17	(+)	1.061	33.306	21.563	132.478	1.061	132.501	1.061	132.501	1.061	2.217
18	(-)	-21.563	-21.000	-1.061	-21.101	-27.679	-21.105	-27.679	-21.105	-27.679	-17.956
19	(+)	2.834	2.525	0.160	1.554	3.558	1.554	3.558	1.554	3.558	2.064
20	(-)	-0.160	-3.450	-2.834	-15.219	-0.160	-15.222	-0.160	-15.222	-0.160	-0.163
21	(+)	0.325	20.881	18.014	104.118	0.325	104.136	0.325	104.136	0.325	1.803
22	(-)	-18.014	-15.006	-0.325	-17.181	-21.610	-17.184	-21.610	-17.184	-21.610	-13.512
23	(+)	2.447	1.541	0.100	0.949	2.876	0.949	2.876	0.949	2.876	1.840
24	(-)	-0.100	-2.942	-2.447	-13.009	-0.100	-13.011	-0.100	-13.011	-0.100	-0.100
25	(+)	0.343	17.733	13.994	84.301	0.343	84.316	0.343	84.316	0.343	1.117
26	(-)	-13.994	-10.974	-0.343	-10.630	-15.013	-10.632	-15.013	-10.632	-15.013	-9.528
27	(+)	1.728	1.430	0.075	0.913	1.850	0.913	1.850	0.913	1.850	1.112
28	(-)	-0.075	-1.635	-1.728	-9.851	-0.075	-9.853	-0.075	-9.853	-0.075	-0.096
29	(+)	4.905	32.112	27.870	163.223	5.013	163.252	5.013	163.252	5.013	4.025
30	(-)	-27.870	-17.081	-4.905	-34.623	-32.966	-34.631	-32.966	-34.631	-32.966	-20.312
31	(+)	2.271	19.163	14.069	85.214	2.393	85.229	2.393	85.229	2.393	2.229
32	(-)	-14.069	-12.608	-2.271	-12.481	-15.088	-12.485	-15.088	-12.485	-15.088	-9.624
33	(+)	3.895	35.830	21.723	134.032	4.619	134.055	4.619	134.055	4.619	4.281
34	(-)	-21.723	-24.450	-3.895	-36.321	-27.839	-36.327	-27.839	-36.327	-27.839	-18.119
35	(+)	3.372	22.422	18.114	105.067	3.801	105.085	3.801	105.085	3.801	3.445
36	(-)	-18.114	-17.947	-3.372	-30.190	-21.710	-30.195	-21.710	-30.195	-21.710	-13.412