

shooti

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1992 AASHTO

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Treubi

1	1	3	가	
1	2	creep,	가	
	100%		가	
POT 10~20%	1	가	2~3 가	
	LRB STU	가	가	가

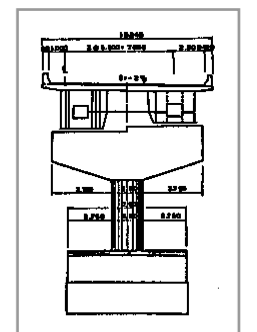
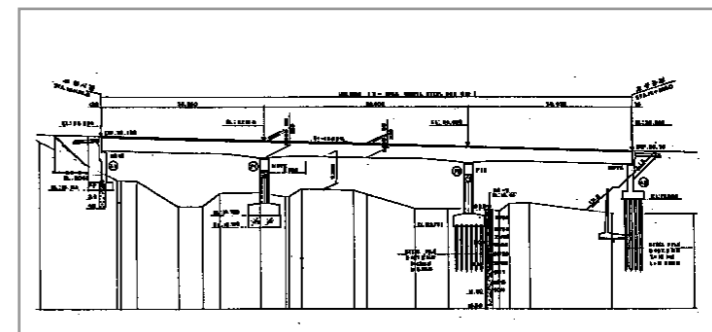
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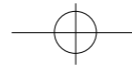
	가
1.5~2	1 가
anchor	Box

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3 Steel Box (L = 40 + 50 + 40 = 130m, B = 10.84m)

1.





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Tropbl



1>	
(kg/cm ²)	240
	3,000
(m)	(R = 2.50)
(m)	L = 4.5 - 5.5
	Ast = 89D29 = 571.8 cm ²
	= 1.16 %
(ton)	1215.8

2.

2>						
		Nu(t)	Mu(t.m)	Nd(t)	Md(t.m)	
P1 (7t)		1199.8	170.5	1199.8	-	o.k.
P2 ()		1199.8	581.5	4491.4	2198.5	o.k.
P2 ()		1215.8	590.4	1744.5	2508.9	o.k.
P2 ()		1215.8	1752.7	4494.1	2200.4	o.k.

< >			
	(t)	(t)	
A1	-	-	
P1 (7t)	18.9	130t x1EA x0.2 = 26	o.k.
P2 ()	-	-	
P2 ()	203.3	350t x1EA x0.2 = 70	
P2 ()	532.1	350t x4EA x0.2 = 280	
P2 ()	179.3	350t x1EA x0.2 = 70	
A2	-	-	
A2	2.5	130t x1EA x0.2 = 26	o.k.
10 ~ 20%			

< 2> 가

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< 3>

3.

24 (.)

- 1) : Box Shoe
- 2) : 1 Box - 2 Shoe 2 Shoe

3.2.

3.3.

Shoe +

- 1) Shoe (UNISON社, 30k series)
(350 ton) : 66 ton

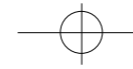
- 2) (3.5 sketch)

A. _____

- Plate (PL 600x340x20)
use 12mm Fillet welding
 $P_1 = 1.2 \times (60 + 34) \text{cm} \times 2 \times 0.8 \text{ton/cm}^2 \times 1.5 \times 0.9 \times 0.707 = 172.2 \text{ ton}$
- Stopper (PL 600x300x20 & 3 PL 360x270x20)
use 12mm Fillet welding
 $P_2 = 1.2 \times (60 + 27 \times 3) \text{cm} \times 2 \times 0.8 \text{ton/cm}^2 \times 1.5 \times 0.9 \times 0.707 = 258.3 \text{ ton}$
- Con'c (11EA x D19 x 2)
 $P_3 = A_c \times \gamma \times \mu = 4 \times 11 \text{EA} \times 2.865 \times 3000 \text{kg/cm}^2 \times 1.0 \times 10^{-3} = 378.2 \text{ ton}$
Min (P₁, P₂, P₃) = 172.2 ton use 172.2 ton
: 66 ton/EA x 4EA + 172.2 ton x 4EA = 952.8 532.1 o.k.

B. _____

- Plate (PL 740x600x20)
use 12mm Fillet welding
 $P_1 = 1.2 \times (74 + 60) \text{cm} \times 2 \times 0.8 \text{ton/cm}^2 \times 1.5 \times 0.9 \times 0.707 = 245.5 \text{ ton}$
- Stopper (PL 600x300x20 & 3 PL 640x270x20)
use 12mm Fillet welding



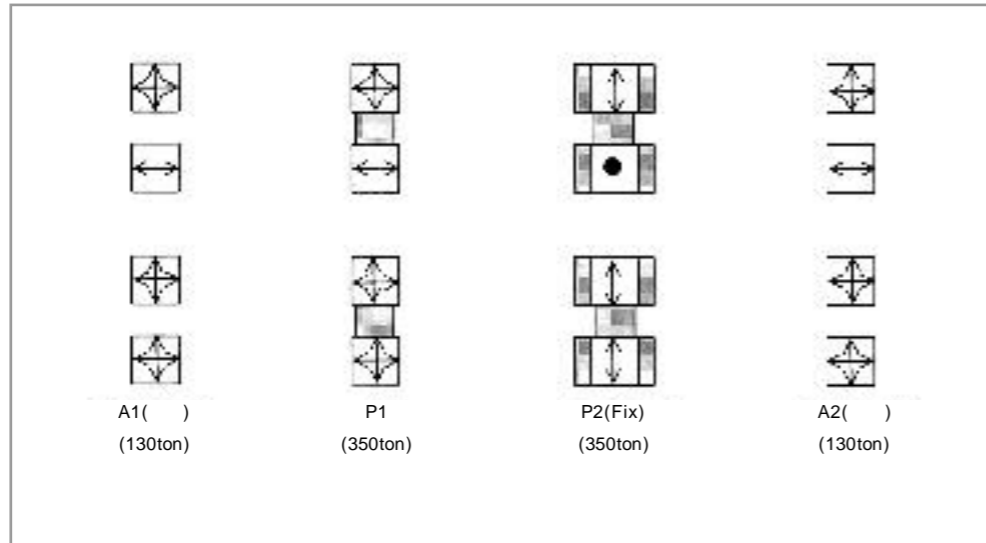
$$P_2 = 1.2 \times (60 + 64 \times 3) \text{cm} \times 2 \times 0.8 \text{ton/cm}^2 \times 1.5 \times 0.9 \times 0.707 = 461.8 \text{ ton}$$

- Con'c (11EA x D19 x 2)

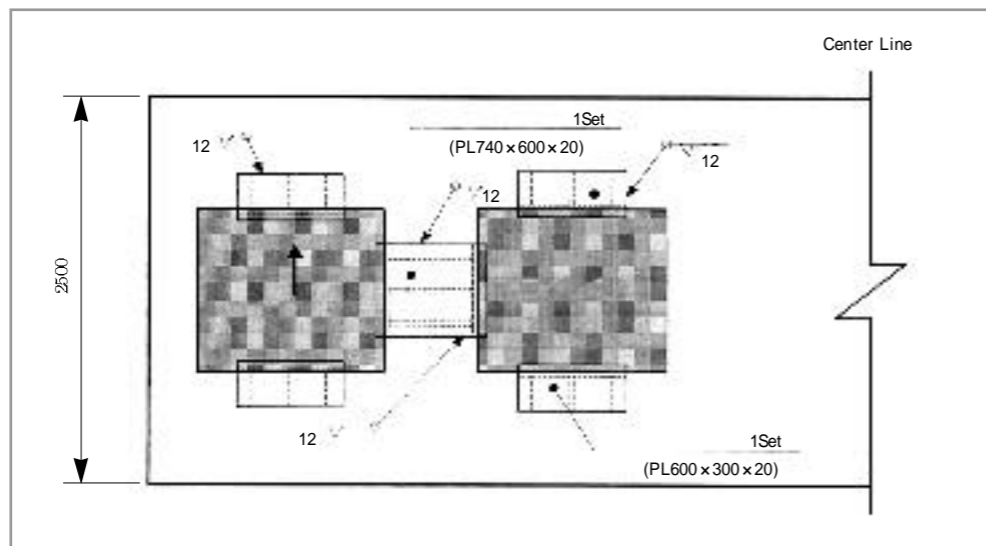
$$P_3 = A_w \times y \times \mu = 4 \times 11 \text{EA} \times 2.865 \times 3000 \text{kg/cm}^2 \times 1.0 \times 10^{-3} = 378.2 \text{ ton}$$

Min (P, P₂, P₃) = 245.5 ton use 245.5 ton

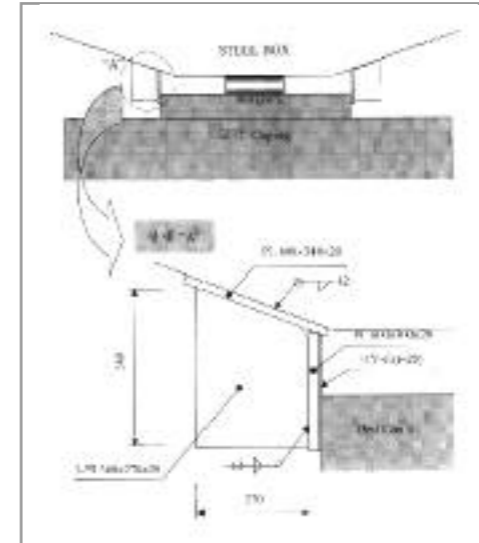
$$: 66 \text{ ton/EA} \times 1 \text{EA} + 245.5 \text{ ton} \times 2 \text{EA} = 557.0 > 203.3 \text{ o.k.}$$



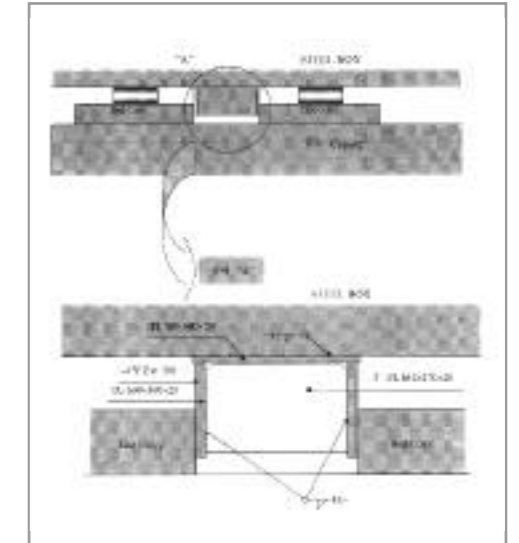
3.4.



3.5. 3> sketch



< 4> ()



< 5> ()



< 6> (1)



< 7> (2)

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