

1.



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1.1



1.2



- : ()
- :
- :

8



Rohse Arch



L=57.9m, B=4.4m

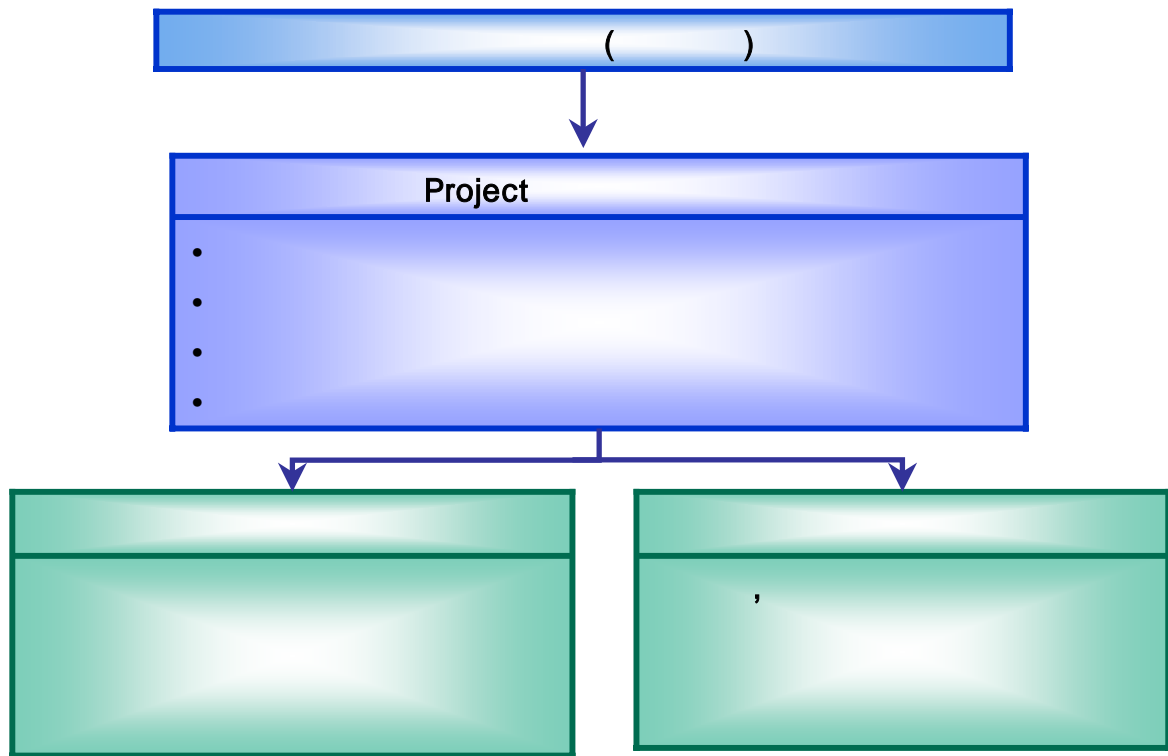


2001.4.1 ~ 2002.5.15

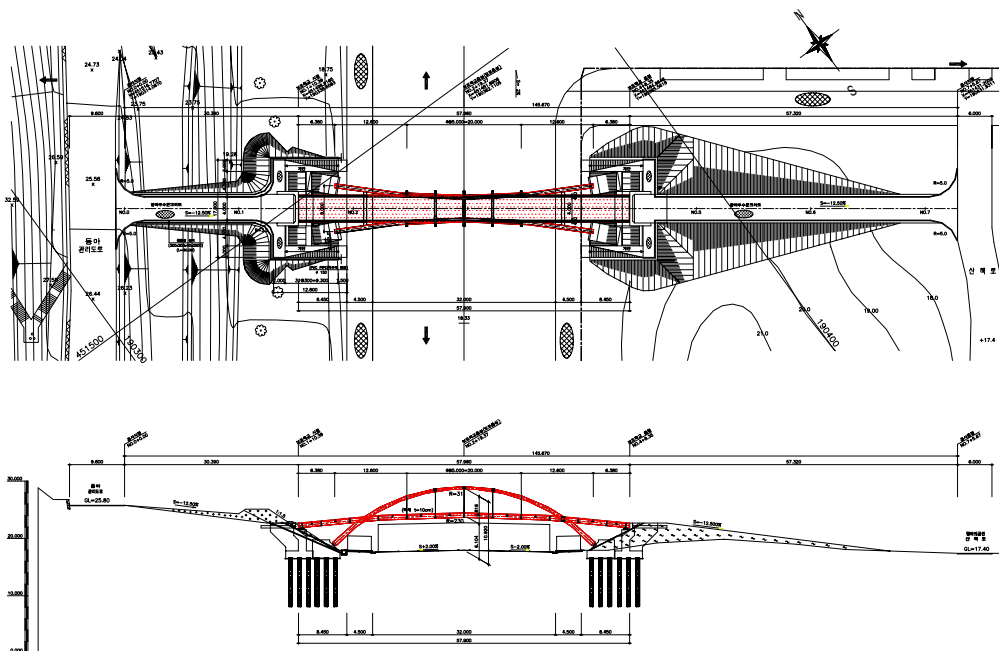
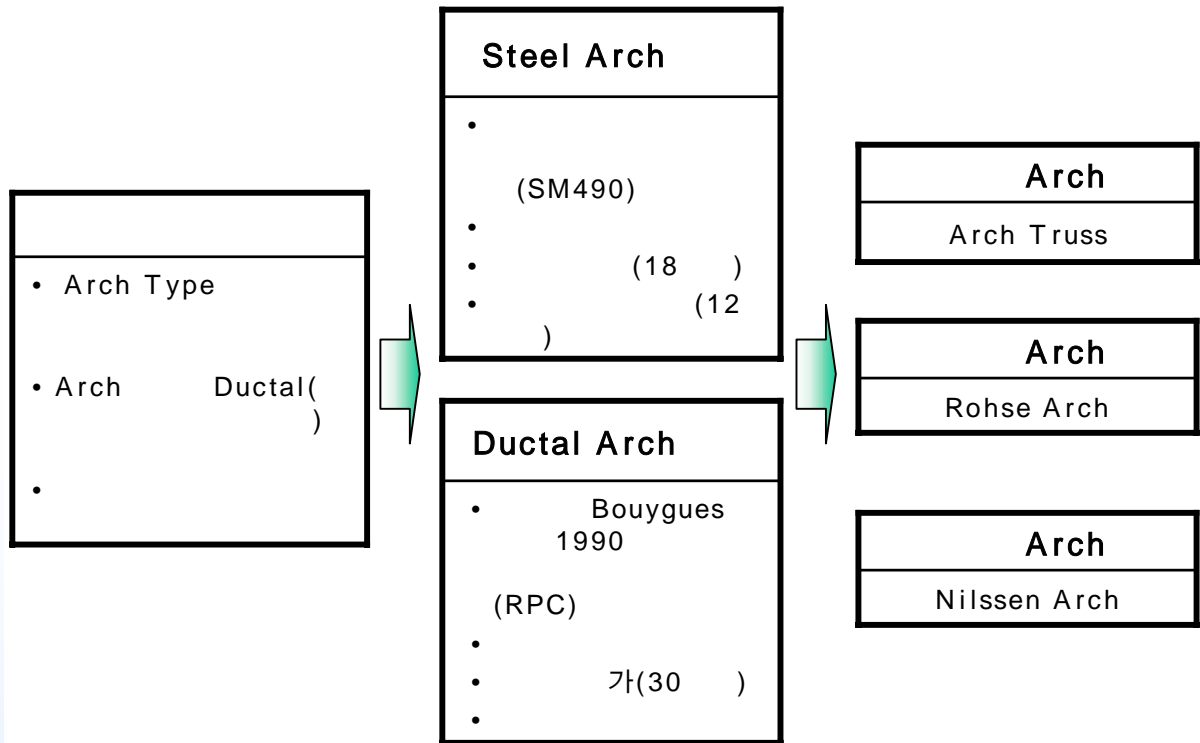


- : Steel Arch + Cable Hanger(26mm)
- :
- : 600 (44m)
- : - Pot Bearing(50ton)
Arch - Pin Bearing (150ton)
- , : (60mm)

1.3



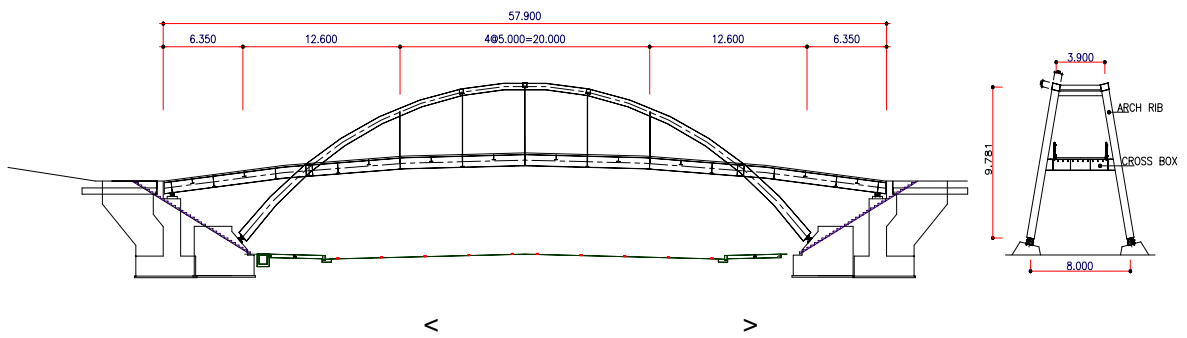
2.



3.

- : St Arch Box Girder (Spiral Strand Cable) Arch Girder
- 가
- :
- :

			/	
57.90m	4.4m	Arch Girder +		600



3.1

1) Girder

Arch Rib

- 600×800~400 Box , Arch Rise 9.78m(Rise/Span=1/4.62)
- Arch Rib : 3.90m, 6.0m(78.163.)
- Cable Diaphragm
-

Strut

- 300×300 Box 3
-
- 400×700 I Girder 2
-

2)

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- Cross Box : 500×700 Box Arch Rib
- Cross Beam : Cable system 5m

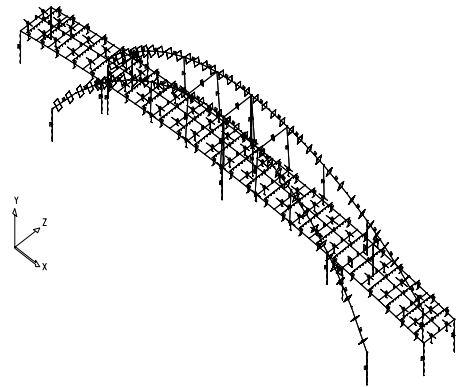
3) Cable System

- Stainless Steel Wire
- 26mm (1×61가)

3.2

- Program : RM Space Frame

- (Arch Rib), (Tie Girder), (Strut), Cross Box , 가 3
- : Beam , - : Grid
- - 3 (Arch Bridge, L =57.9m)



Modeling

3.3

- 1) Arch Rib, Tie Girder, Strut, Cross Box : 2 , , Cable :

- 2) () (L/600): - 14.36mm < $a = 59.7\text{mm}$
 - 14.19mm < $a = 75.3\text{mm}$
 - 가 0.538mm < $a = 8.8\text{mm}$

- 3) :] [: 200
 :] [: 10

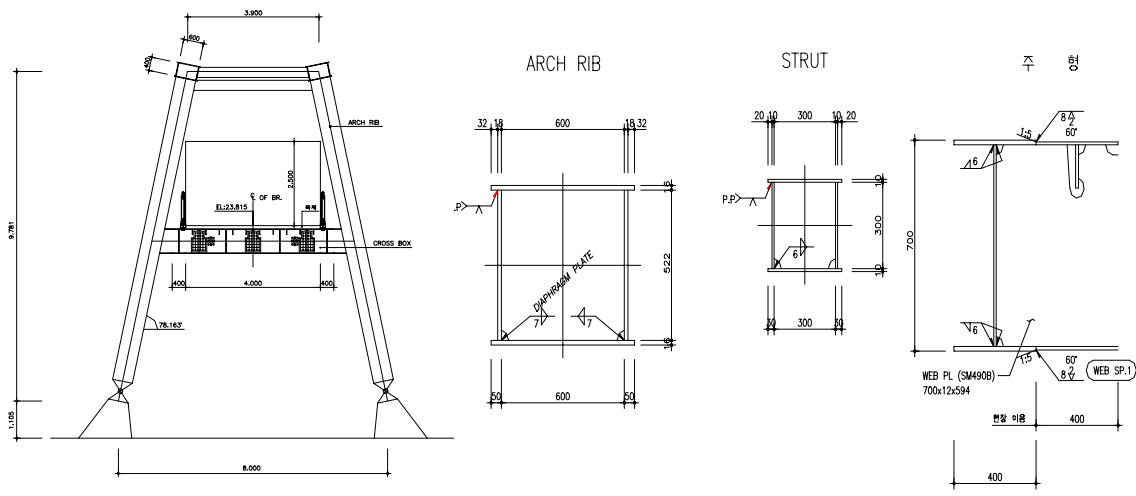
- 4) : 가

- 5) : 1
 :
 :

3.4

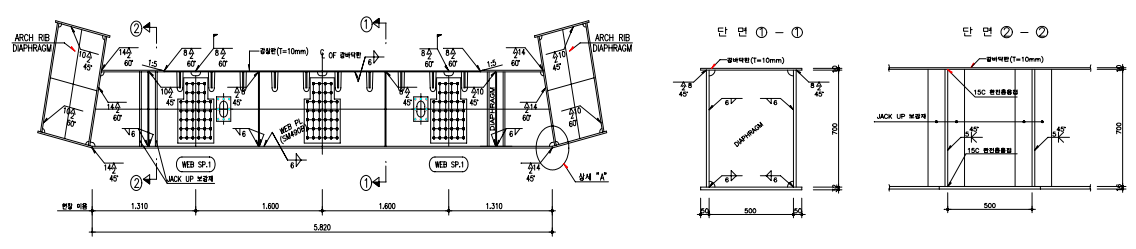
- Arch Rib :
- Strut : Arch Rib 3
- Tie Girder :

Box



- 가
- CROSS BOX : BOX 가
- CROSS BEAM : 5.0m

CABLE SYSTEM



CROSS BOX

4

- : ,
- : ,

4.1

- 2m 10~15m , ,
- 40m
- 600 x 12t Pile
- 44.2m
- Pile Gas
- Pile
- Arch 3 (pin Bearing) Anchor Bolt 가
- Block Out Arch Beam 가

4.2

- Arch Box
- 113ton Arch : 38 Ton
: 75 Ton
- 2001.8.1 ~ 2001.11.30 (4)
- 가 / (Arch Rib Tie
- Girder 7 10ton/20ton trailer)
- Arch Box 3
- (가 Bent 3 , 50ton~250ton)
- Cable Hanger
- Pfeife Stainless Steel Spiral Strand
(Wire 1 2.4mm, 61가 26mm)
- 1450KN, 570KN(490ton)
- : Open Swaged

4.3

-

• 1

2 가



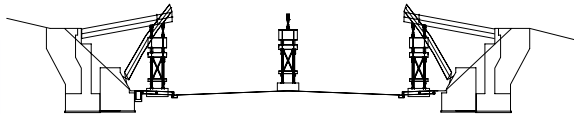
• 2

(80ton 1)



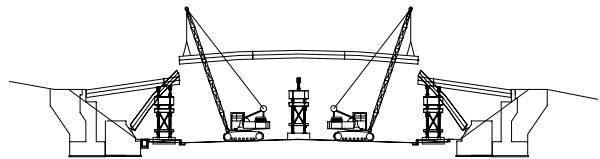
• 3

Arch Box
Beam
1 가



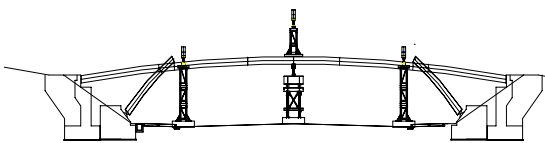
• 4

(250ton 1)



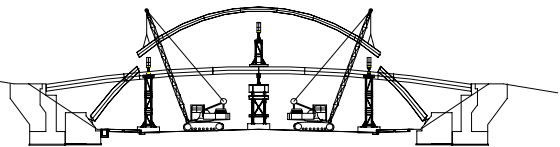
• 5

Arch Box 가



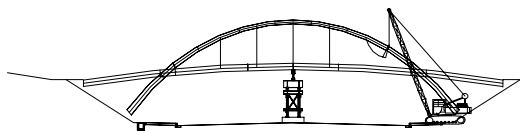
• 6

Arch Box
Strut
(80ton 1 + 25ton 1)

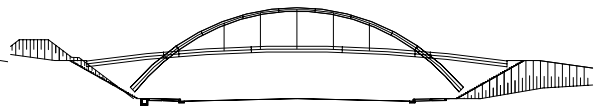


• 7

Cable Hanger
(50ton 1)



• 8



4.4 -

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5

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• 가



- Arch Box



- Cable Hanger

