

8-8 支承図面

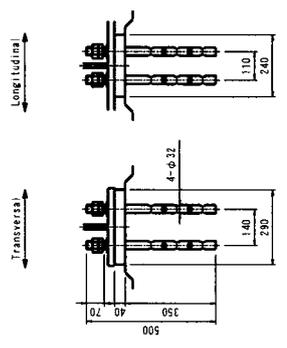
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 13, MINISTRY OF TRANSPORT	
PROJECT: THE PAVEMENT & BRIDGE IN NORTH ANHOUANG PROVINCE	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY	CHECKED BY
APPROVED BY	
DATE	

5-2 BEARING SHOE (Rubber) - 400KN

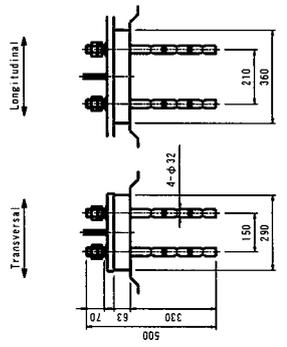
S=1/20

(Fix , Mov)

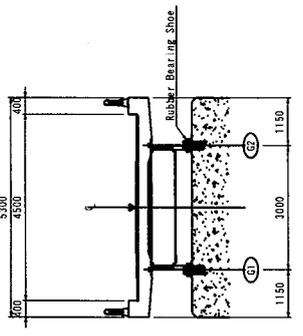
(F.I.)



(M.O.V)

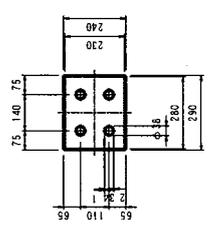


SECTION SCALE = 1/5



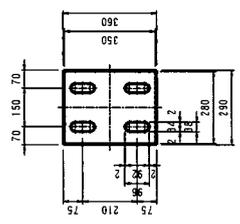
REVISION	DATE	DRAWING NO.	SCALE	WORK. NO.
1/10				
DRAWING		BEARING SHOE (Rubber) - 400KN		
DATE	DESCRIPTION	BY: _____		
		CHECKED BY: _____		
		APPROVED BY: _____		

(F.I.) Rubber Bearing Shoe (chloroplene+S400)



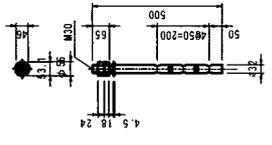
Rubber: te X m-8mm X 3 Layers
Steel plate: 13 X m-2.3mm X 4 plates.

(M.O.V) Rubber Bearing Shoe (chloroplene+S400)

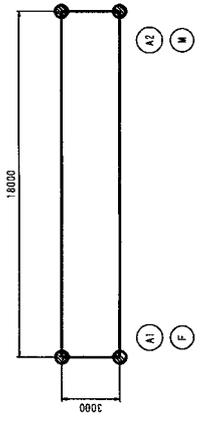


Rubber: te X m-8mm X 5 Layers
Steel plate: 13 X m-2.3mm X 6 plates

Anchor Bolt (S355N)



Layout Plan



Item	Size	Material	Quantity		Weight (kg)	Remarks
			A1	A2		
Rubber (Fix)	290x240x40	CR+S400	2	2	54.9	
Rubber (Mov)	290x360x40	S355N	2	2	109.8	
Anchor Bolt	φ22x500	S355N	8	8	374.4	with nut/washer

note 1. Anchor bolt is specified to be galvanized.
note 2. Quantity of galvanizing is specified by JISB8641-B235.

Note: 1) The physical properties of the rubber are referred to the table below.

Physical Properties

Items	Unit	Pycnolite (D)		Items for test
		Standard value	Test value	
Specific Characteristics	breaking elongation	%	600	Compression test (JIS K 6251)
	tensile strength	N/mm ²	over 450	Compression test (JIS K 6251)
	changeable rate for 100% elongation stress	%	over 15	Air heat aging test (JIS K 6252)
	aging test	%	over minus 50 (20 degree C/72 hours)	Compression test (JIS K 6251)
Adhesive Properties	compressive permanent deformation rate	%	under 35 (20 degree C/72 hours)	Compression test (JIS K 6251)
	static ozone aging	1	no cracks by visual inspection	Static ozone aging test (JIS K 6253)
Water Resistance	water resistance	%	under 10 (50 degree C/24 hours)	Water resistance test (JIS K 6254)
	cold resistance	°C	under minus 30 degree	Low temperature test (JIS K 6255)
Adhesive Strength	adhesive strength	N/mm ²	over 7	Adhesive strength test (JIS K 6256)
	adhesive strength	N/mm ²	over 7	Adhesive strength test (JIS K 6256)

JIS - Japanese Industrial Standard

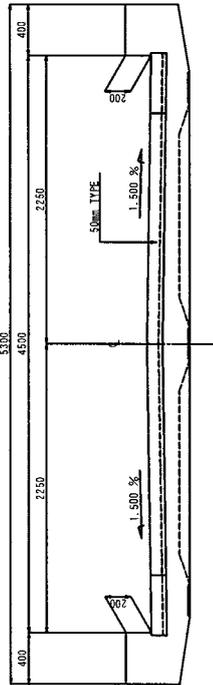
8-9 伸縮装置図面

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECTS MANAGEMENT UNIT NO. 18, MINISTRY OF TRANSPORT	
PROJECT: THE BRIDGE FOR IMPROVEMENT OF JAIL BRIDGE IN BACH LUU WATUANG PROVINCE	
CONSULTANT:	ORIENTAL CONSULTANTS CO., LTD.
DESIGNED BY:	APPROVED BY:
CHECKED BY:	DATE:
SIGNATURE:	
DATE:	

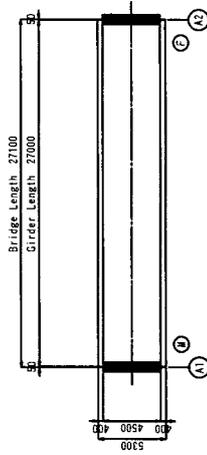
7-1 EXPANSION JOINT S = 1 / 40 (TYPE 50mm)

DESIGN NO.	SCALE	DATE	DESIGNER	CHECKER	DATE
	1/40				
DRAWING TITLE: 7-1 EXPANSION JOINT (TYPE 50mm)					
REV. NO.	DATE	DESCRIPTION	SIGNATURE		

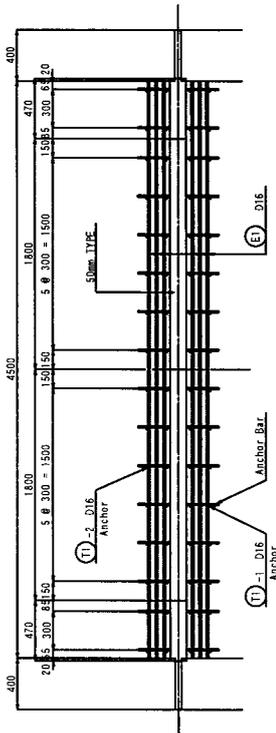
CROSS SECTION



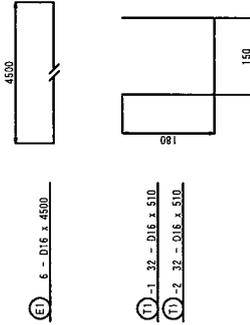
KEY PLAN S=1/400



PLAN



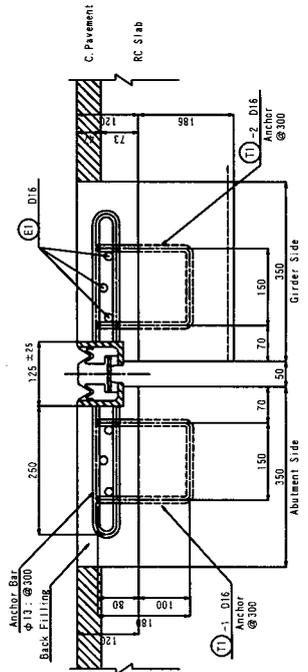
REINFORCING BAR S=1/10



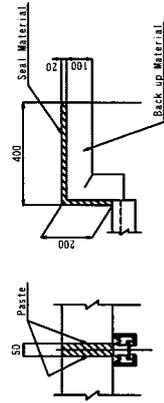
MATERIAL LIST

NAME	KIND	SIZE	QUANTITY	REMARKS
Rubber Joint	TYPE 50mm	125x 90x1800	4 nos	Total 9.08 m
Back Filling	Concrete	125x 90x 470	0.756 m ³	
Reinforcing Bar	E1	350x120x9000	84.2 kg	Sub Structure
Anchor Bar	T1-1	32-D16x 510	25.5 kg	Sub Structure
Seal Material	T1-2	32-D16x 510	25.5 kg	Sub Structure
Bond		50x 20x3800	3.5 l	
Back up Material	Primer		3.6 m	
	Urethane	100x100	3.6 m	

DETAIL S=1/10



DETAIL OF SEALING COAT S=1/20

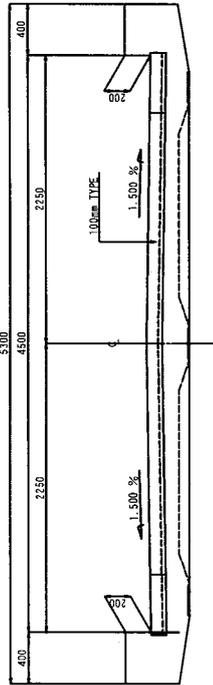


THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 18, MINISTRY OF TRANSPORT	
PROJECT: THE BRIDGE FOR INVESTMENT & NEW BRIDGE IN BOPHIA PROVINCE	
CONSULTANT:	ORIENTAL CONSULTANTS CO., LTD
DESIGNED BY:	CHECKED BY:
APPROVED BY:	DATE:
SIGNATURE:	DATE:

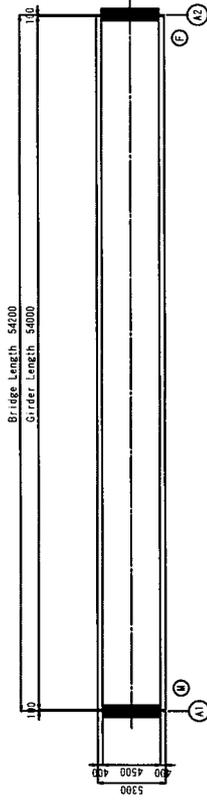
7-2 EXPANSION JOINT S = 1 / 40 (TYPE 100mm)

DESIGN NO.	DATE	DESCRIPTION	SIGNATURE
17/4		7-2 EXPANSION JOINT (TYPE 100mm)	
APPROVED BY:	DATE:	DESCRIPTION:	SIGNATURE:

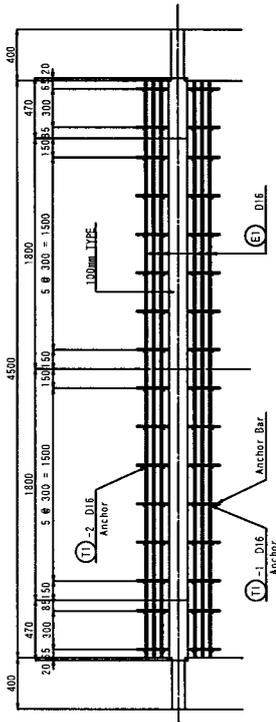
CROSS SECTION



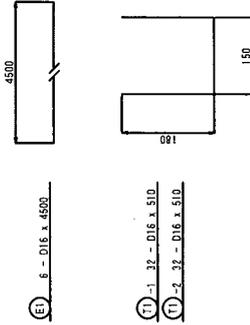
KEY PLAN S=1/400



PLAN



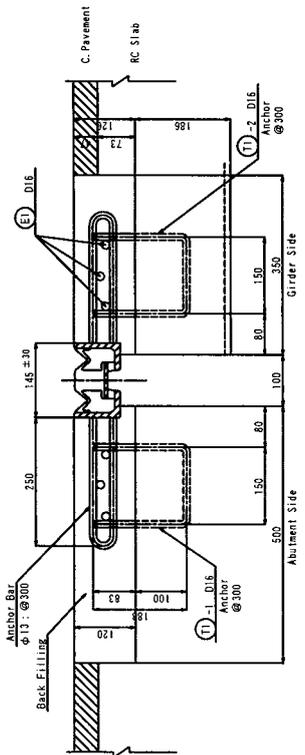
REINFORCING BAR S=1/10



MATERIAL LIST

NAME	KIND	SIZE	QUANTITY	REMARKS
Rubber Joint	TYPE 100mm	145x 90x1500	4 nos	Total 9.08 m
Back Filling	Concrete	145x 90x 470	4 nos	
Reinforcing Bar	EI	500x120x3000	0.54 m ³	
Anchor Bar	TI-1	32-D16x 510	84.2 kg	Sub Structure
Seal Material	TI-2	32-D16x 510	25.5 kg	Sub Structure
Bond	Primer	150x 20x2400	4.8 l	
Back up Material	Urethane	200x100	2.4 m	

DETAIL S=1/10



DETAIL OF SEALING COAT S=1/20

