

8-7 鋼桁及びトラス図面

DRAWING SCHEDULE

1. Simple and Composite Steel Girder

1-1	Girder Length	L = 33,000 m	Width = 5,500 m
1-2	Girder Length	L = 30,000 m	Width = 5,500 m
1-3	Girder Length	L = 27,000 m	Width = 5,500 m
1-4	Girder Length	L = 33,000 m	Width = 4,500 m
1-5	Girder Length	L = 30,000 m	Width = 4,500 m
1-6	Girder Length	L = 27,000 m	Width = 4,500 m

2. Simple and Composite H Shaped Steel Girder

2-1	Girder Length	L = 24,000 m	Width = 5,500 m
2-2	Girder Length	L = 21,000 m	Width = 5,500 m
2-3	Girder Length	L = 15,000 m	Width = 5,500 m
2-4	Girder Length	L = 24,000 m	Width = 4,500 m
2-5	Girder Length	L = 21,000 m	Width = 4,500 m
2-6	Girder Length	L = 18,000 m	Width = 4,500 m
2-7	Girder Length	L = 15,000 m	Width = 4,500 m

3. Simple and Steel Truss

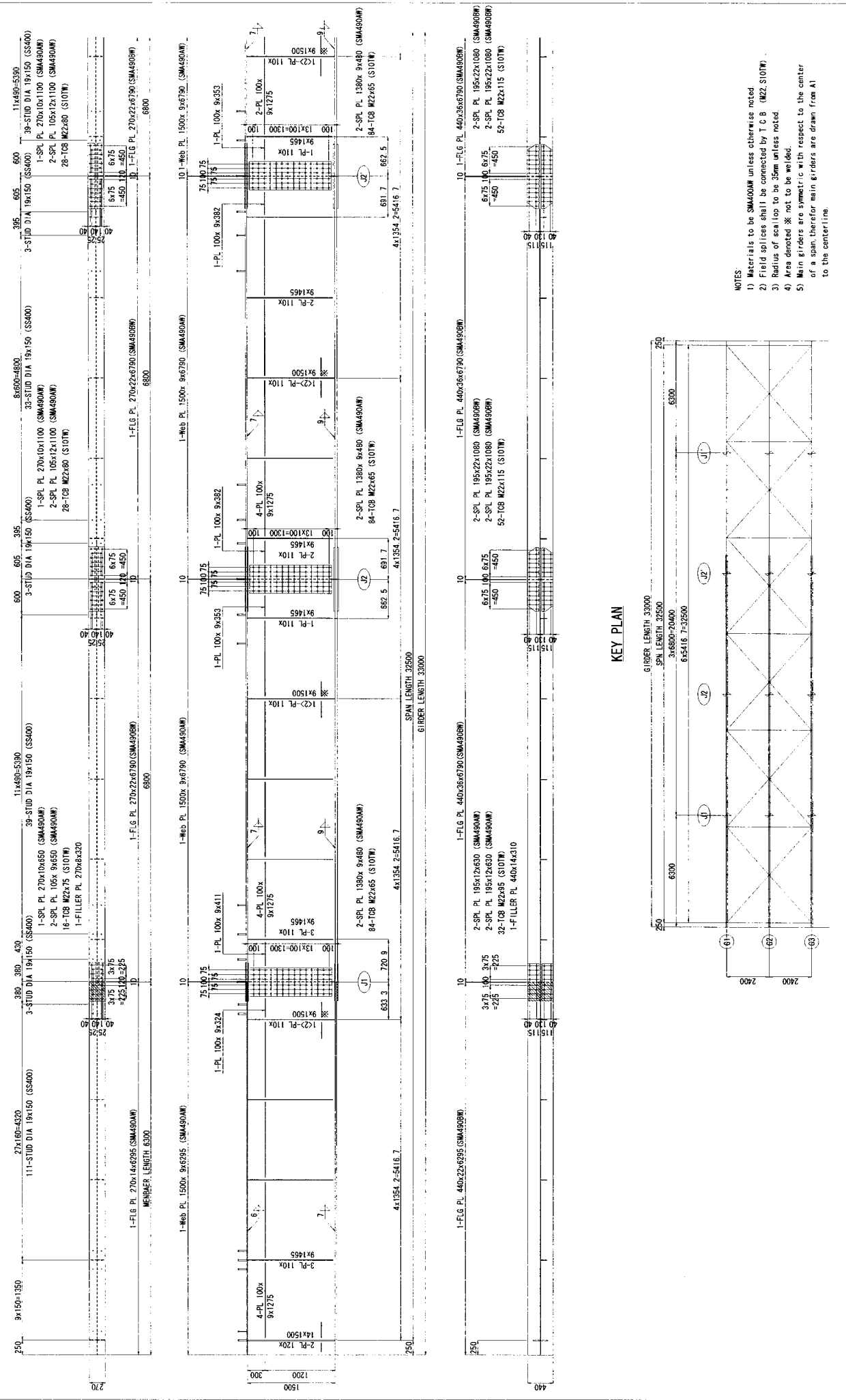
3-1	Through Type	L = 49,500 m	Width = 5,500 m
3-2	Deck Type	L = 54,000 m	Width = 4,500 m

1-1 MAIN GIRDER 1 (L-33) S = 1 / 60

G1. G3 <G2>

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 14, MINISTRY OF TRANSPORT	
PROJECT: THE FIRST PHASE OF HAI PHONG & HAI PHONG (HAI PHONG) BRIDGE	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY:	APPROVED BY:
CHECKED BY:	
NAME:	
SIGNATURE:	
DATE:	

SECTION:	SCALE:	DRAWING NO.:	SHEET NO. OF
TITLE:	1/80	1-1 MAIN GIRDER 1 (L-33)	
DATE:		REVISION:	
FILE NO.:		DESCRIPTION:	
		PROJECT:	

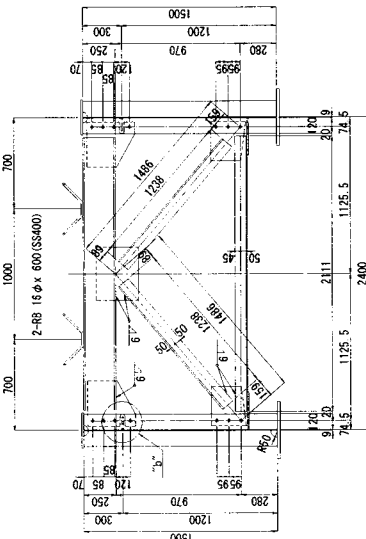
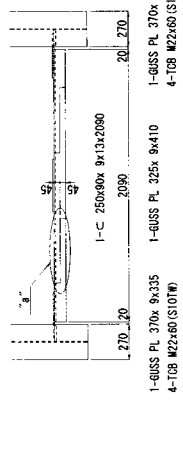


1-1 CROSS BEAM, SWAY BRACING (L-33) S = 1 / 40

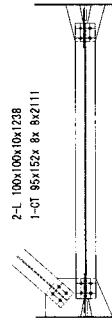
SECTION	SCALE	DRAWING NO.	SHEET NO.
DATE	1/8"		OF
REV. NO.	DESCRIPTION	DATE	SIGNATURE

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	PROJECT: MANAGEMENT UNIT NO. 12, MINISTRY OF TRANSPORT
PROJECT: THE BRIDGE FOR IMPROVED ROAD NETWORK IN BACH BINH PROVINCE	DESIGN UNIT: ORIENTAL CONSULTANTS CO., LTD
DESIGNED BY: _____	CHECKED BY: _____
APPROVED BY: _____	DATE: _____

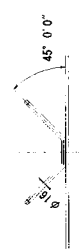
END SWAY BRACING S=1/40



1-GUSS PL 270x 9x290
3-TOB M22x60 (S10TW)

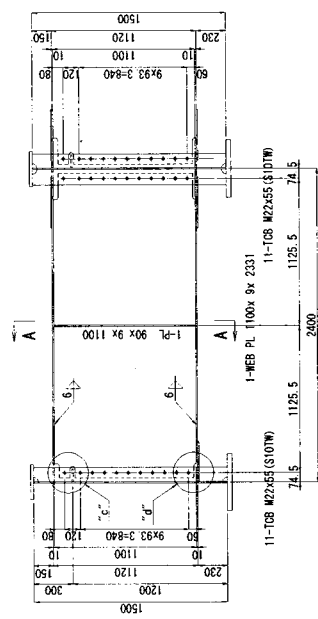
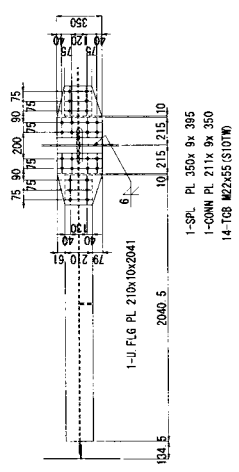


DETAIL "a" S=1/20

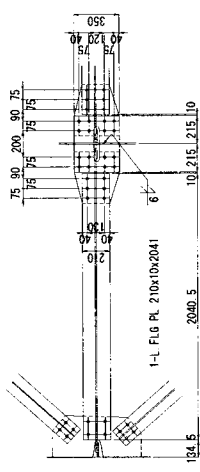


DETAIL "b" S=1/20

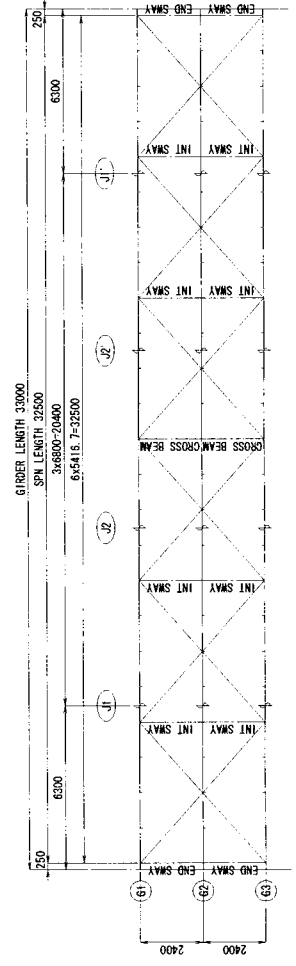
CROSS BEAM S=1/40



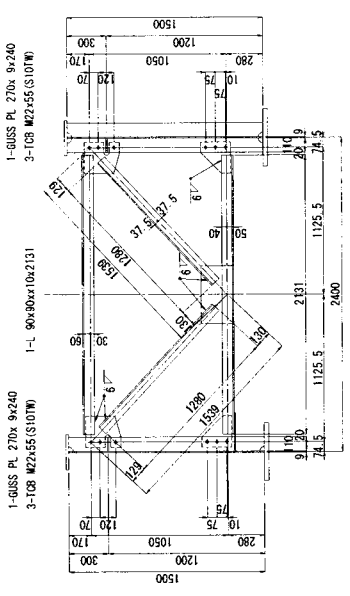
1-SPL PL 350x 9x 395
1-CONN PL 211x 9x 350
14-TOB M22x55 (S10TW)



KEY PLAN

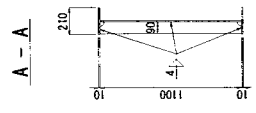


INT SWAY BRACING S=1/40



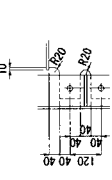
1-GUSS PL 230x 9x240
3-TOB M22x55 (S10TW)

1-GUSS PL 240x 9x440
2-L 75x75x 9x1280
1-L 90x90x10x2131



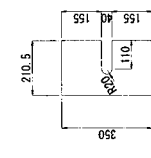
DETAIL OF SPL PL S=1/20

DETAIL "c" S=1/20



DETAIL "b" S=1/20

DETAIL OF CONN PL S=1/20



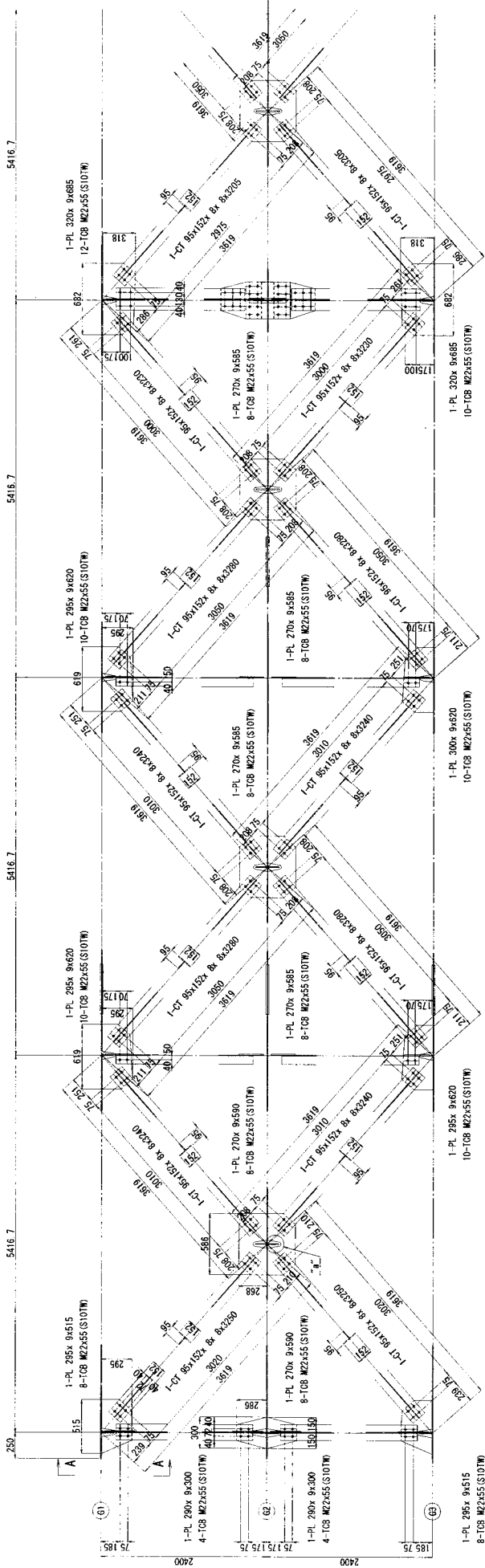
- NOTES:
- 1) Materials to be SM400M unless otherwise noted.
 - 2) + Mark is set to be I.C.B. (M22, S10TW)
 - 3) Radius of scallop to be 35mm unless noted.

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/4"=1'-0"		OF
DRAWING TITLE	DATE	DESCRIPTION	SIGNATURE
1-1 LATERAL BRACING (L-33)			
REV. NO.			

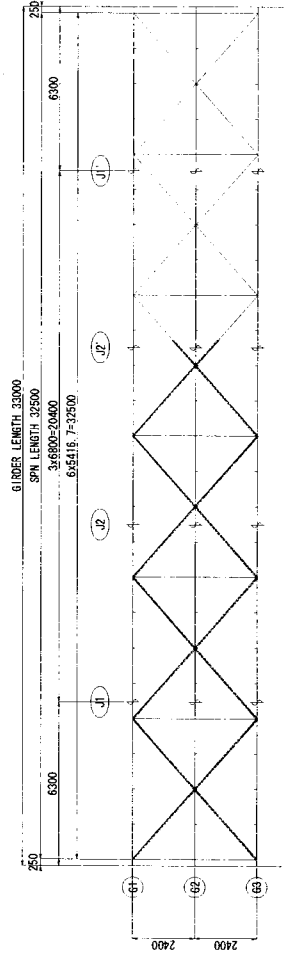
1-1 LATERAL BRACING (L-33)

S = 1 / 40 (1 / 60)

LATERAL BRACING S=1/40 (1/60)

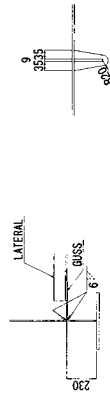


KEY PLAN



- NOTES:
- 1) Materials to be SHAKOON unless otherwise noted
 - 2) Field splices shall be connected by T C B (M22 S10TW)
 - 3) Radius of scallop to be 35mm unless noted
 - 4) Lateral bracing are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

DETAIL "a" S=1/20



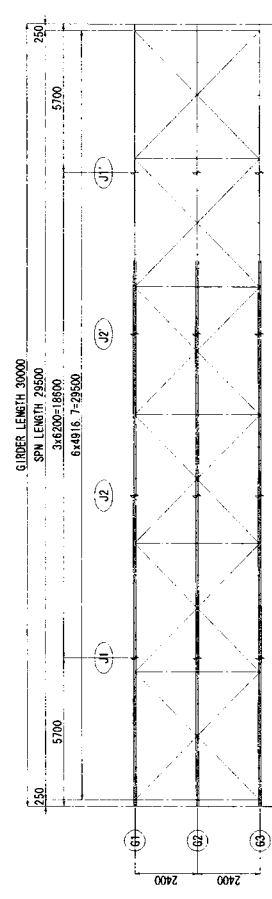
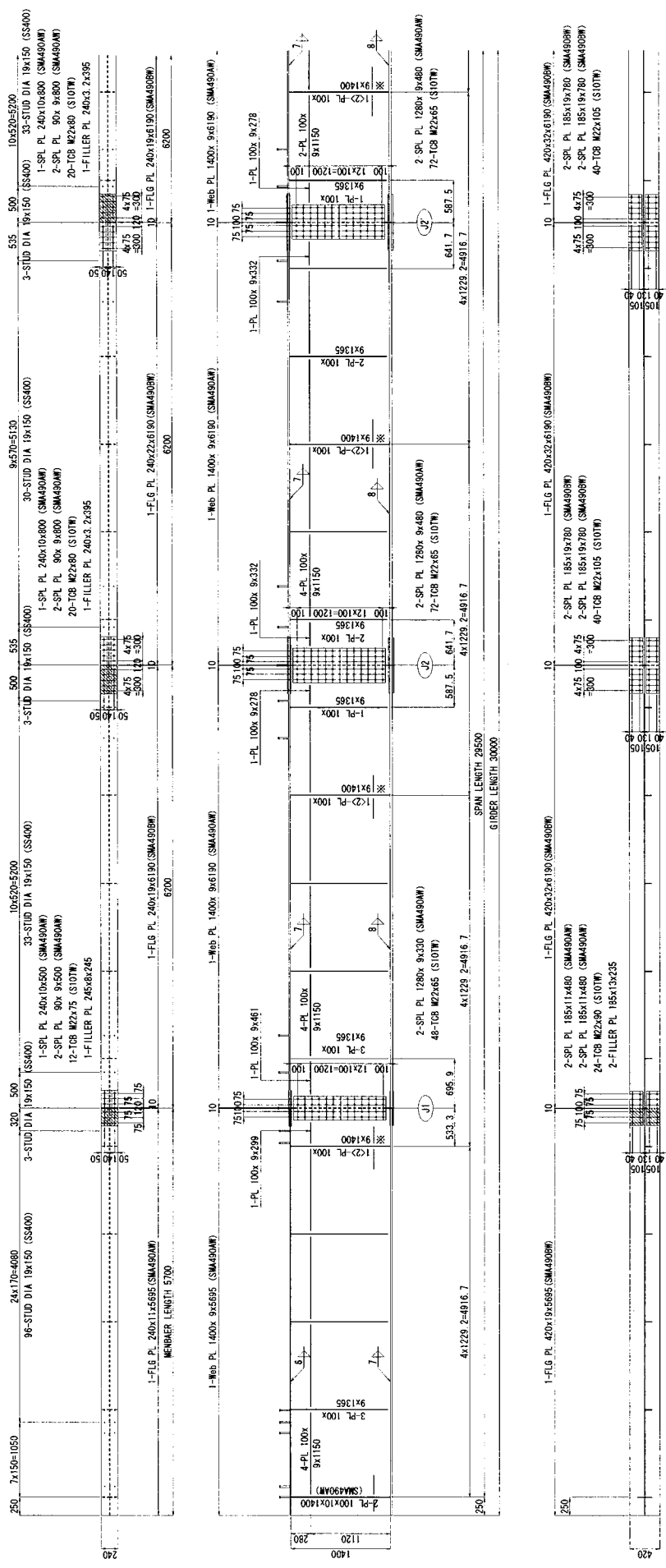
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	PROJECT	MANAGEMENT UNIT NO 10 MINISTRY OF TRANSPORT
PROJECT	IN PROJECT OF IMPROVEMENT OF HAI BINH TO HUE HIGHWAY (PHASE 1)	ORIENTAL CONSULTANTS CO., LTD
CONTRACT NO.		
DESIGNED BY	CHECKED BY	APPROVED BY
NAME	DATE	DATE
SIGNATURE		

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT: THE INLET AND BRIDGE OF BAN BINH II WATERWAY (NONG PHU)
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____
 CHECKED BY: _____
 NAME: _____
 DATE: _____

1-2 MAIN GIRDER 1 (L-30) S = 1 / 60

G1, G3 <G2>

SECTION	SCALE	DRAWING NO.	SHEET NO.
1/10	1/60		OF
DATE	DESCRIPTION	SIGNATURE	



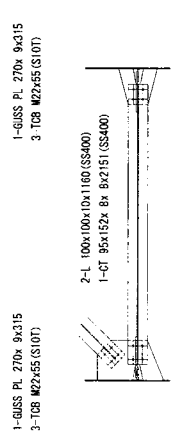
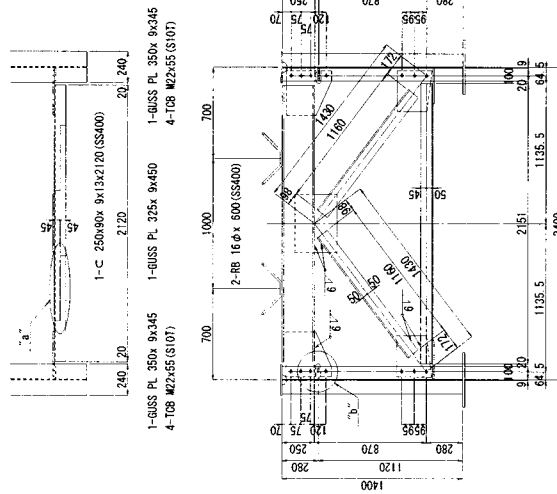
- NOTES:
- 1) Materials to be SHADOM unless otherwise noted.
 - 2) Field splices shall be connected by T C 8 (M22, S10TW).
 - 3) Radius of scallop to be 35m unless noted.
 - 4) Area denoted by * not to be welded.
 - 5) Main girders are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECTS MANAGEMENT UNIT NO. 19 MINISTRY OF TRANSPORT
 PROJECT: THE IMPACT FOR IMPROVING OF ROAD NETWORK IN BACH KHE PROVINCE
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD
 DESIGNED BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 NAME: _____
 SIGNATURE: _____
 DATE: _____

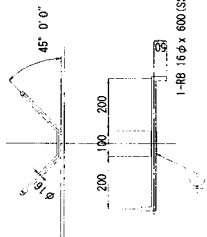
1-2 CROSS BEAM, SWAY BRACING (L-30) S = 1 / 40

SECTION	SCALE	DRAWING NO.	SHEET NO.
DRAWING TITLE	1/40		OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE

END SWAYBRACING S=1/40

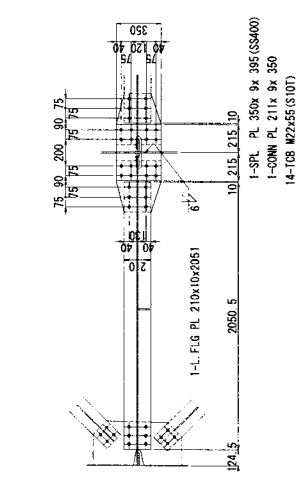
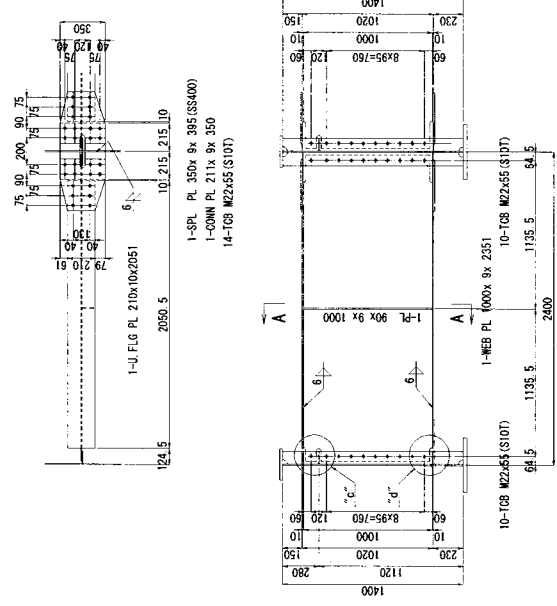


DETAIL "a" S=1/20

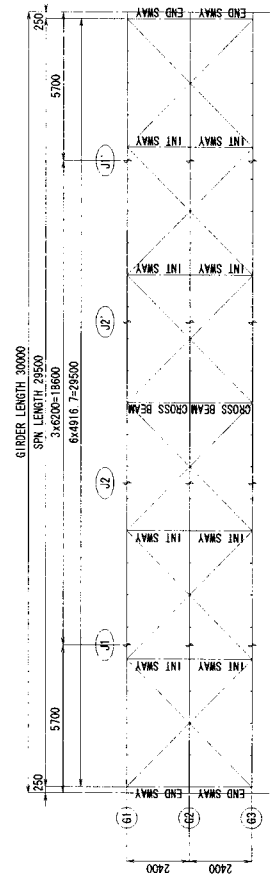


DETAIL "b" S=1/20

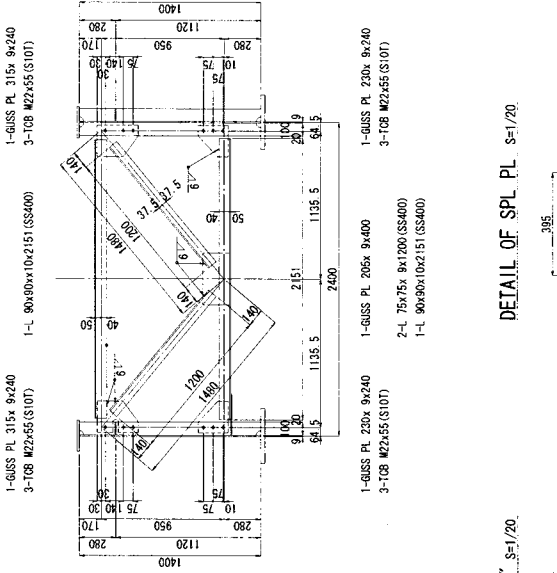
CROSS BEAM S=1/40



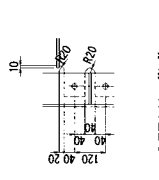
KEY PLAN



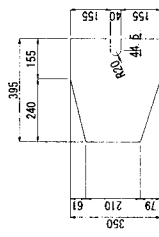
INT SWAY BRACING S=1/40



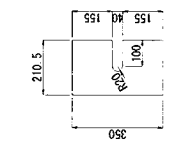
DETAIL "c" S=1/20



DETAIL OF SPL PL S=1/20



DETAIL OF CORN PL S=1/20

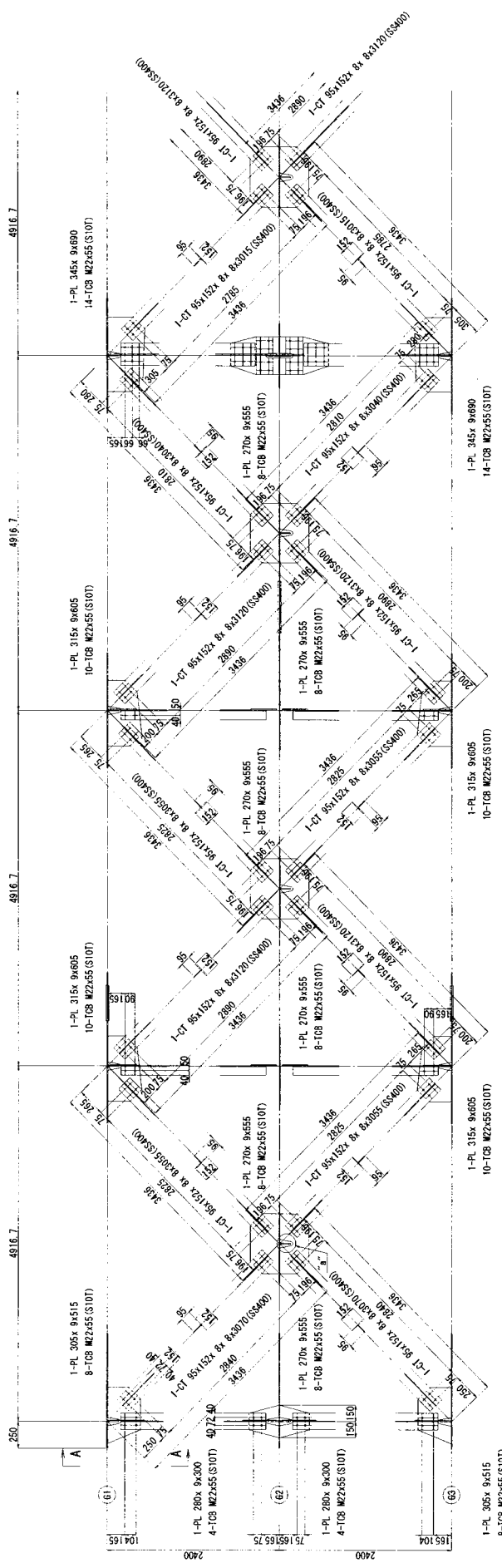


NOTES:
 1) Materials to be SM400A unless otherwise noted.
 2) + Mark is set to be T.C.B. (M22, S10T).
 3) Radius of scalllop to be 35mm unless noted.

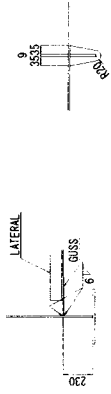
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 10, MINISTRY OF TRANSPORT	
PROJECT: THE PROJECT OF IMPROVING OF MAIN BRIDGES IN NORTHERN HAIKHOANG PROVINCE	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY	CHECKED BY
APPROVED BY	DATE

1-2 LATERAL BRACING (L-30) S = 1 / 40 (1 / 60)

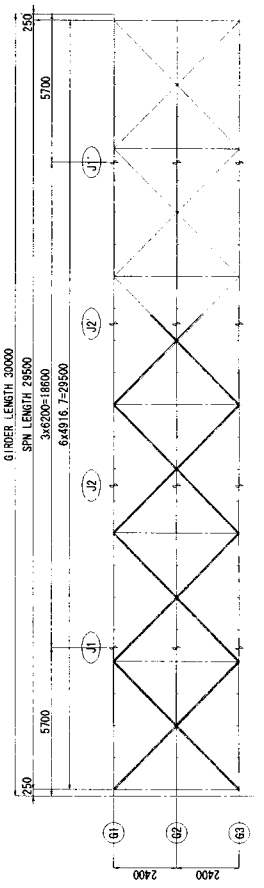
SECTION	SCALE	DRAWING NO.	SHEET NO.
BRIDGE	1/8" = 1'-0"	1-2 LATERAL BRACING (L-30)	OF
DATE		DESCRIPTION	SIGNATURE



DETAIL "a" S=1/20



KEY PLAN



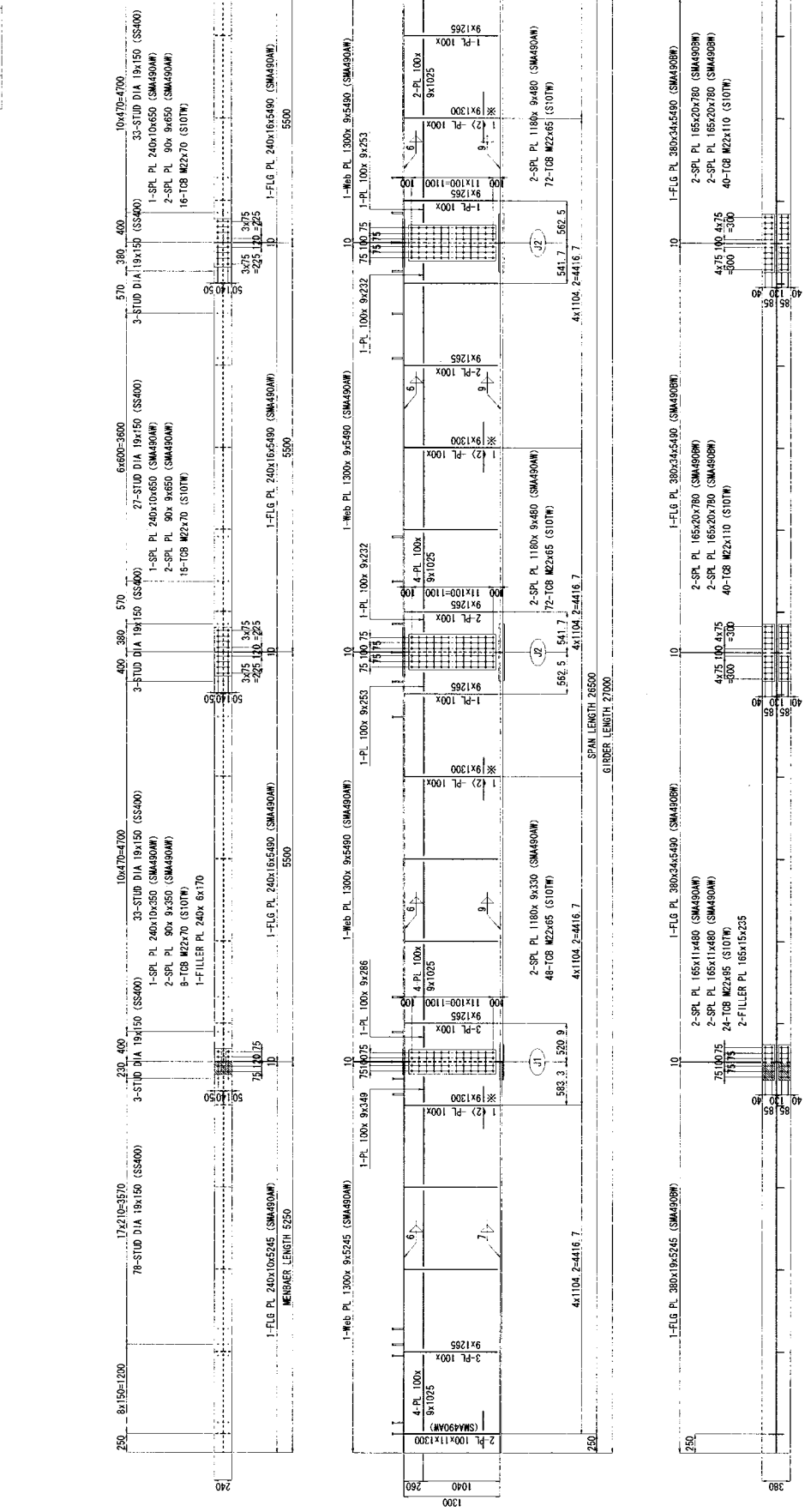
- NOTES:
- 1) Materials to be S4600A unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M2 S107).
 - 3) Radius of scallop to be 30mm unless noted.
 - 4) Lateral bracings are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

SECTION	SCALE	DRAWING NO.	SHEET NO.
TITLE	1/8"	1-3 MAIN GIRDER 1 (L-27)	OF
DATE			
DESCRIPTION			
SIGNATURE			

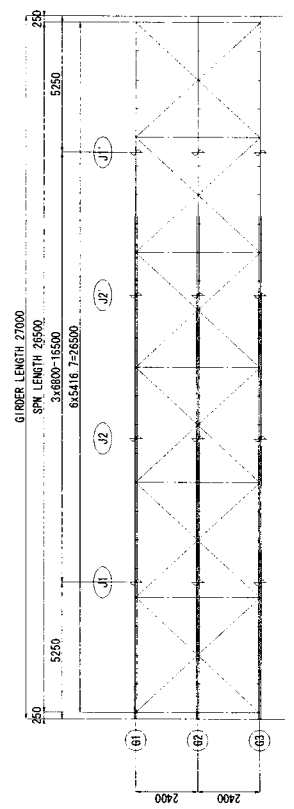
1-3 MAIN GIRDER 1 (L-27) S = 1 / 60

G1, G3 <G2>

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECTS MANAGEMENT UNIT NO. 10, MINISTRY OF TRANSPORT	
PROJECT: REPAIR OF SPAN AND MAIN GIRDER IN BACH SON BRIDGE ROUTE	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY	CHECKED BY
APPROVED BY	
NAME	
SIGNATURE	
DATE	



KEY PLAN



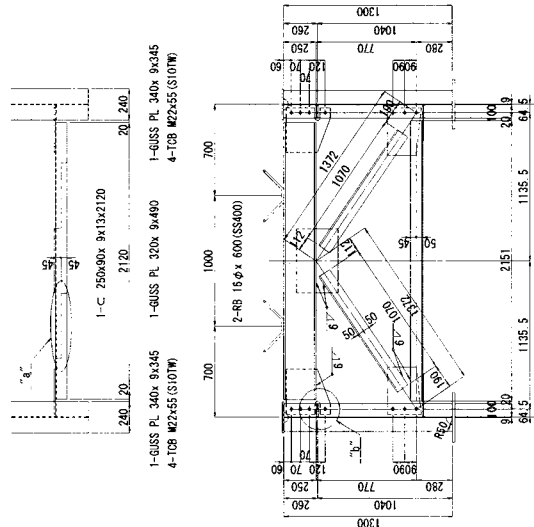
- NOTES:**
- 1) Materials to be SMA490W unless otherwise noted
 - 2) Field splices shall be connected by T C B (M22, S10TW)
 - 3) Radius of seal top to be 35mm unless noted.
 - 4) Area denoted * not to be welded
 - 5) Main girders are symmetric with respect to the center of a span, therefore main girders are drawn from AI to the center line.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 15 MINISTRY OF TRANSPORT	
PROJECT: IN-ROAD FOR IMPROVEMENT OF MAIN ROUTES IN NORTHERN MOUNTAIN PROVINCES	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.	
DESIGNED BY	APPROVED BY
CHECKED BY	
NAME	
POSITION	
SIGNATURE	

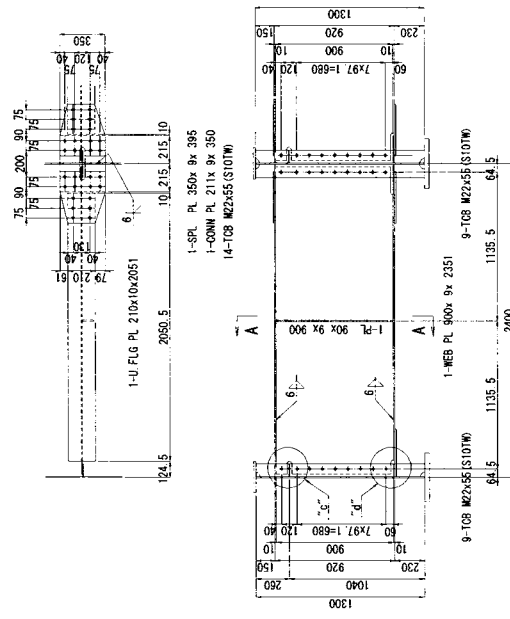
1-3 CROSS BEAM, SWAY BRACING (L-27) S = 1 / 40

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/40		OF
DRAWING			
DATE			
DESCRIPTION			
SIGNATURE			

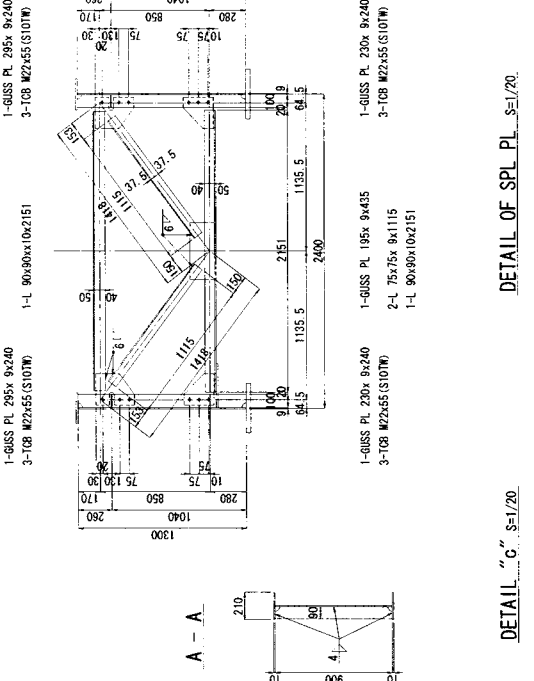
END SWAY BRACING S=1/40



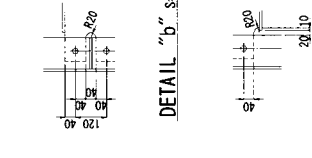
CROSS BEAM S=1/40



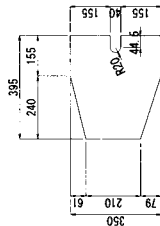
INT SWAY BRACING S=1/40



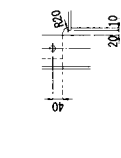
DETAIL "c" S=1/20



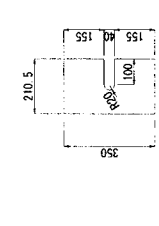
DETAIL OF SPL PL S=1/20



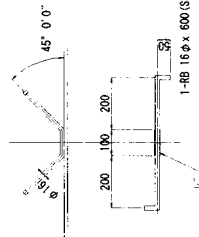
DETAIL "b" S=1/20



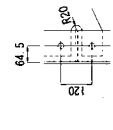
DETAIL OF COHN PL S=1/20



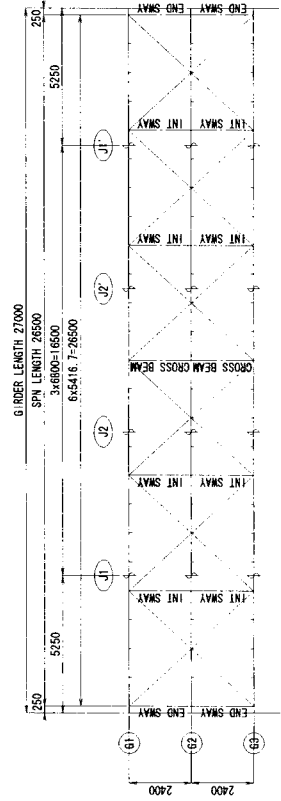
DETAIL "a" S=1/20



DETAIL "b" S=1/20



KEY PLAN

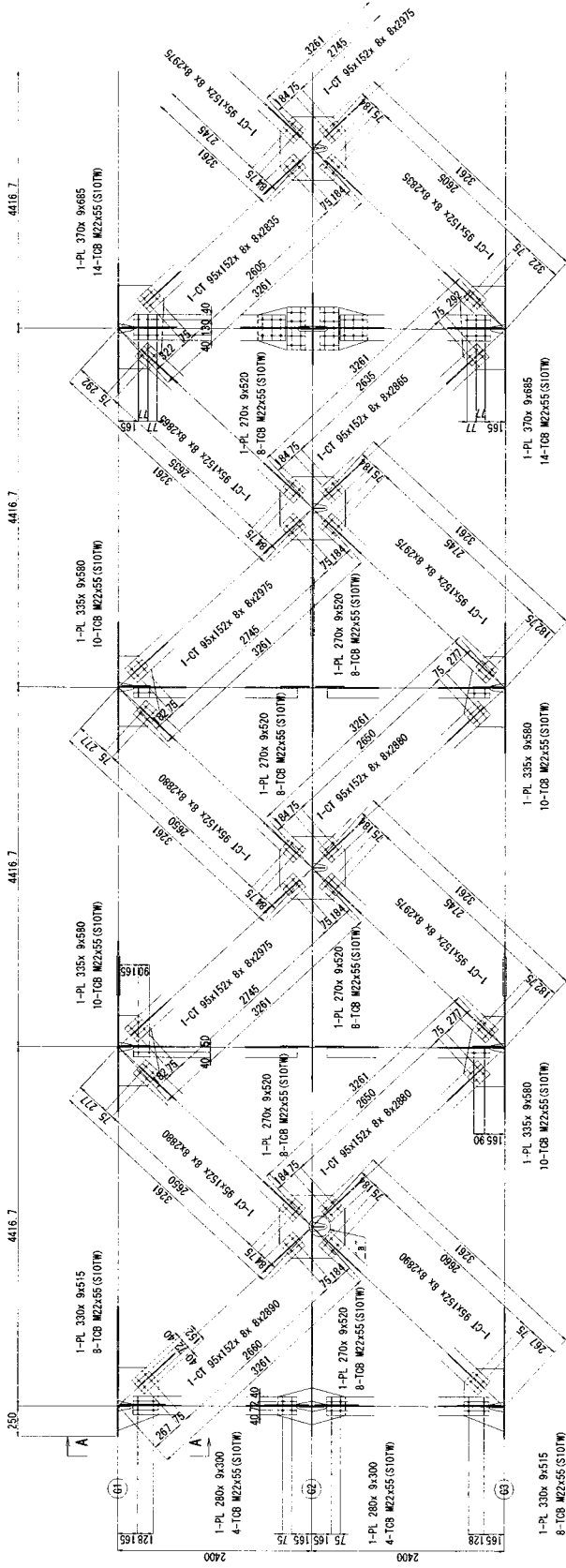


- NOTES**
- Materials to be **SM400MN** unless otherwise noted
 - Mark is set to be T.C.B. (M22.S10TW)
 - Radius of scarf top to be 35mm unless noted

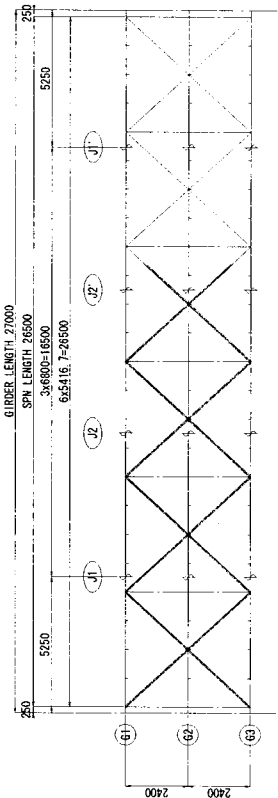
SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/8" = 1'-0"		OF
DRAWING TITLE			
REV. NO.	DATE	DESCRIPTION	SIGNATURE

1-3 LATERAL BRACING (L-27) S = 1 / 40 (1 / 60)

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECTS MANAGEMENT UNIT NO. 18 MINISTRY OF TRANSPORT	
PROJECT: THE BRIDGE FOR IMPROVEMENT OF ROAD NETWORK IN MOUNTAINOUS AREAS	
CONTRACTOR: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY	CHECKED BY
APPROVED BY	
NAME	SIGNATURE
DATE	

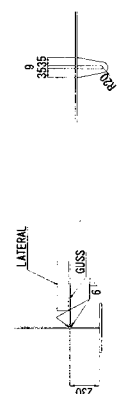


KEY PLAN



- NOTES:
- 1) Materials to be SHIMADZU unless otherwise noted
 - 2) Field splices shall be connected by T C B (M22 S10TW)
 - 3) Radius of scallop to be 35mm unless noted
 - 4) Lateral bracings are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

DETAIL "a" S=1/20

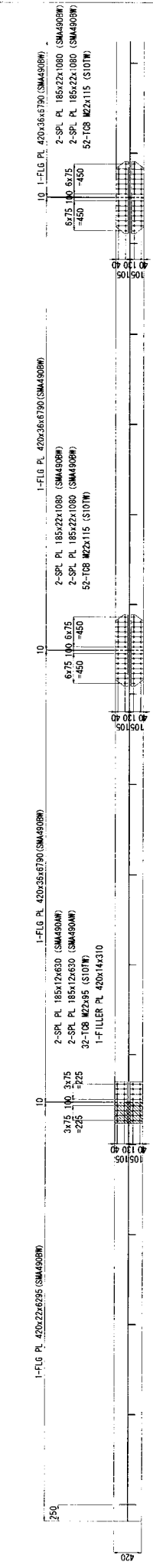
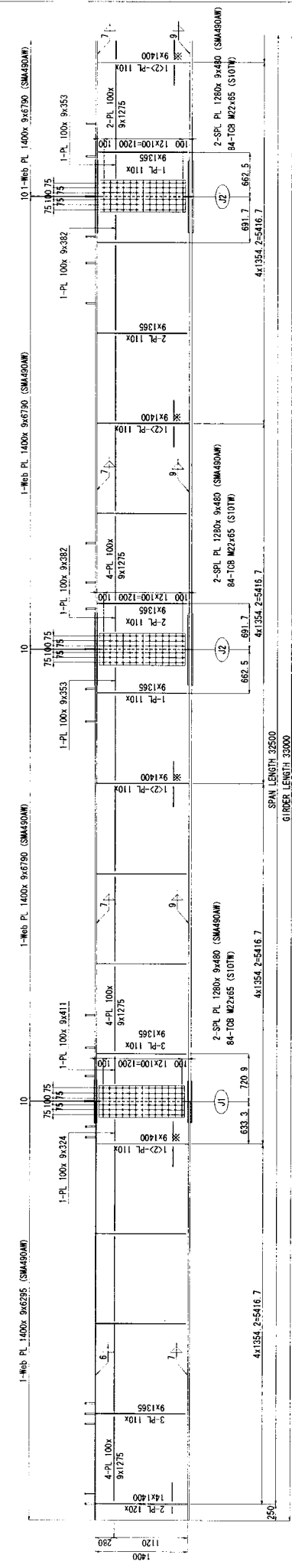
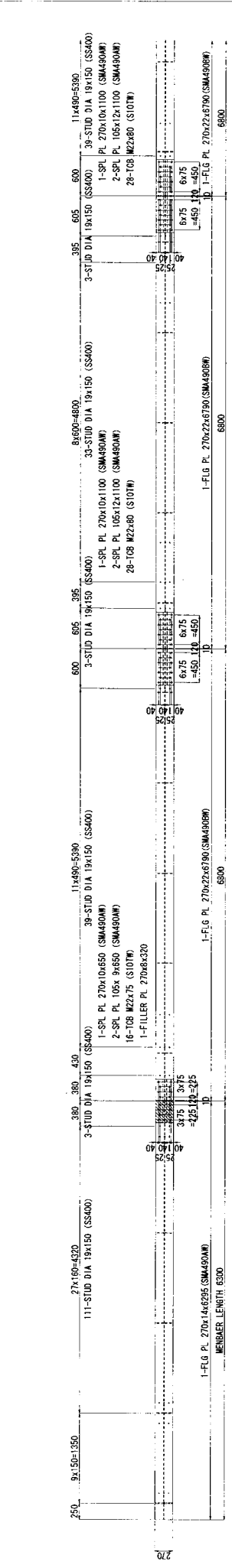


THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 18 MINISTRY OF TRANSPORT
 PROJECT THE REPAIR OF BRIDGE 1 (L-33) IN WATSON (MIAO) PROVINCE
 CONSULTANT ORIENTAL CONSULTANTS CO., LTD
 NAME _____ DATE _____
 DESIGNED BY _____
 CHECKED BY _____
 APPROVED BY _____

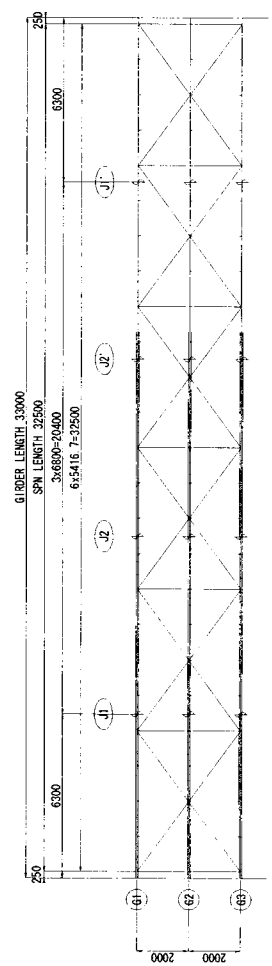
1-4 MAIN GIRDER 1 (L-33) S = 1 / 60

G1, G3 <G2>

SECTION	SCALE	DRAWING NO.	SHEET NO.
DRAWING TITLE	1/M		OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN



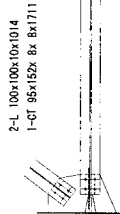
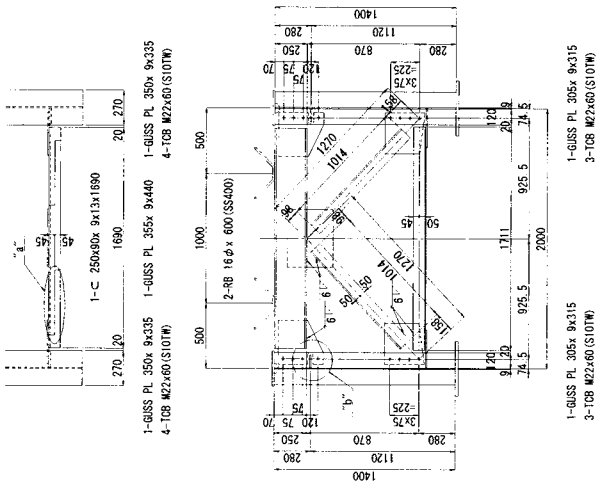
- NOTES
- 1) Materials to be SMA490M unless otherwise noted
 - 2) Field splices shall be connected by T C B (M2, S10TW)
 - 3) Radius of scallop to be 35mm unless noted.
 - 4) Areas denoted * not to be welded.
 - 5) Main girders are symmetric with respect to the center of a span; therefore main girders are drawn from A1 to the centerline.

1-4 CROSS BEAM, SWAY BRACING (L-33) S = 1 / 40

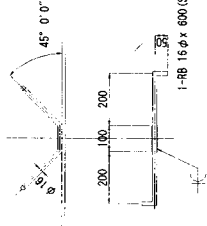
SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/40		OF
TITLE			
REV. NO.	DATE	DESCRIPTION	SIGNATURE

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECTS MANAGEMENT UNIT NO. 18 MINISTRY OF TRANSPORT	
PROJECT: THE PAIST FOR IMPROVING OF ROAD BRIDGES & HIGHWAY MAINTENANCE SERVICES	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY	CHECKED BY
APPROVED BY	
NAME	
SIGNATURE	
DATE	

END SWAYBRACING S=1/40

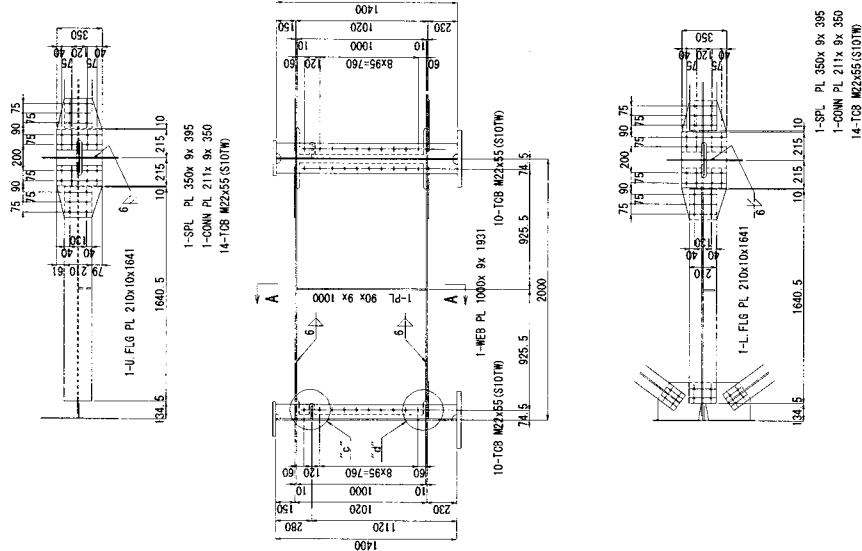


DETAIL "a" S=1/20

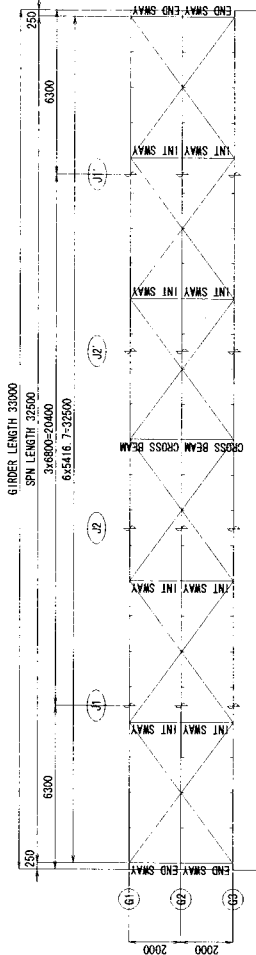


DETAIL "b" S=1/20

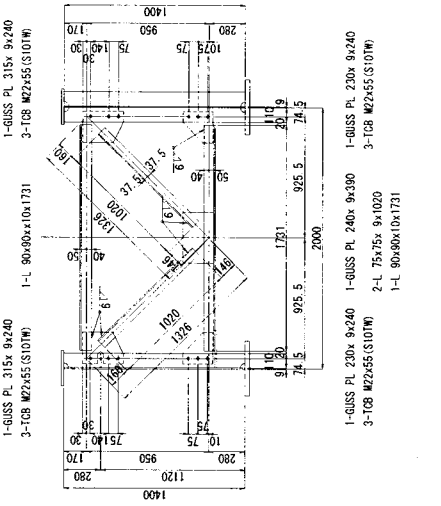
CROSS BEAM S=1/40



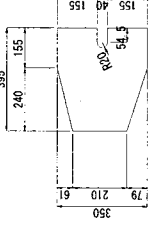
KEY PLAN



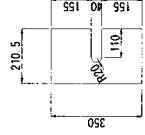
INT. SWAY BRACING S=1/40



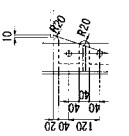
DETAIL OF SPL PL S=1/20



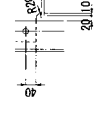
DETAIL OF COIN PL S=1/20



DETAIL "c" S=1/20



DETAIL "b" S=1/20



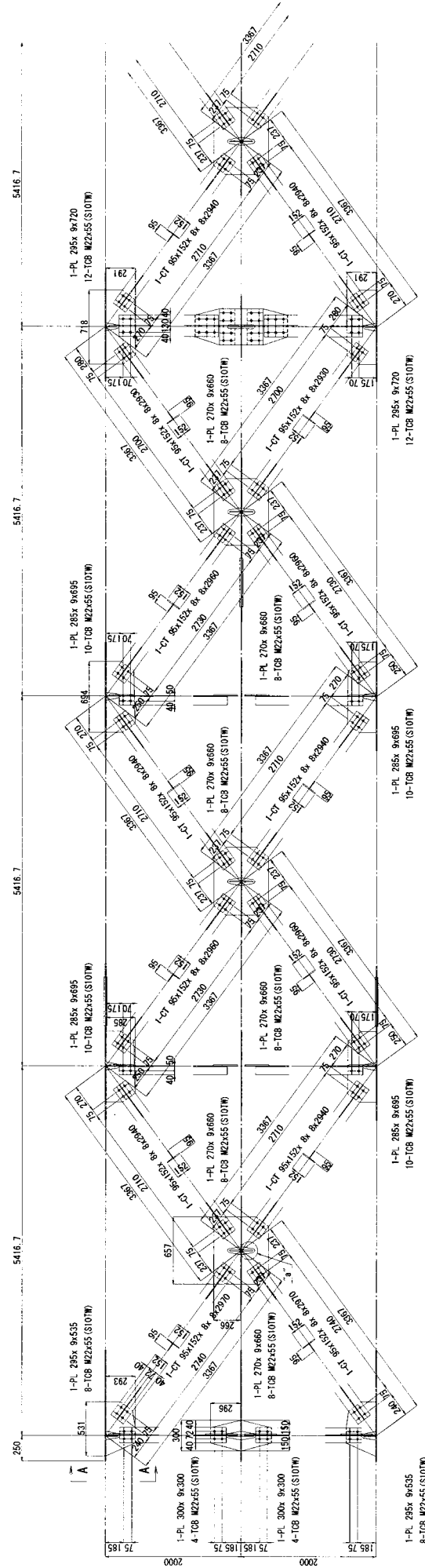
- NOTES**
- 1) Materials to be SHAKOAN unless otherwise noted.
 - 2) Mark is set to be T C B M22 (S10TW)
 - 3) Radius of seal/top to be 38mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 12 MINISTRY OF TRANSPORT	
PROJECT: THE MOST ADVANCED ROAD BRIDGE IN NORTHERN VIETNAM	
CONTRACTOR: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY: _____	APPROVED BY: _____
CHECKED BY: _____	DATE: _____
NAME: _____	DATE: _____

1-4 LATERAL BRACING (L-33) S = 1 / 40 (1 / 60)

SECTION	SCALE	DRAWING NO.	SHEET NO.
1-4 LATERAL BRACING (L-33)	1/40 (1/60)		OF
DATE	DESCRIPTION	REVISIONS	
		NO.	DESCRIPTION

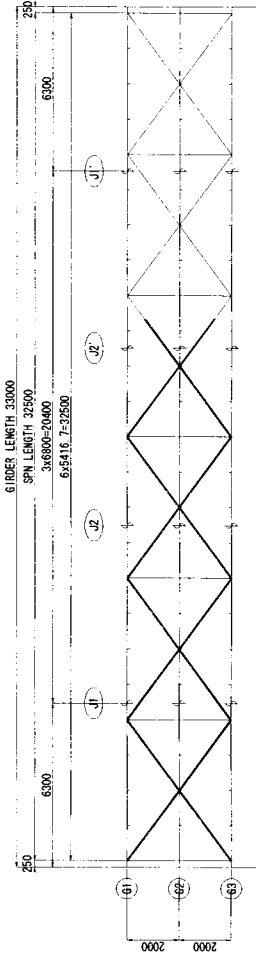
LATERAL BRACING S=1/40(1/60)



DETAIL "a" S=1/20



KEY PLAN



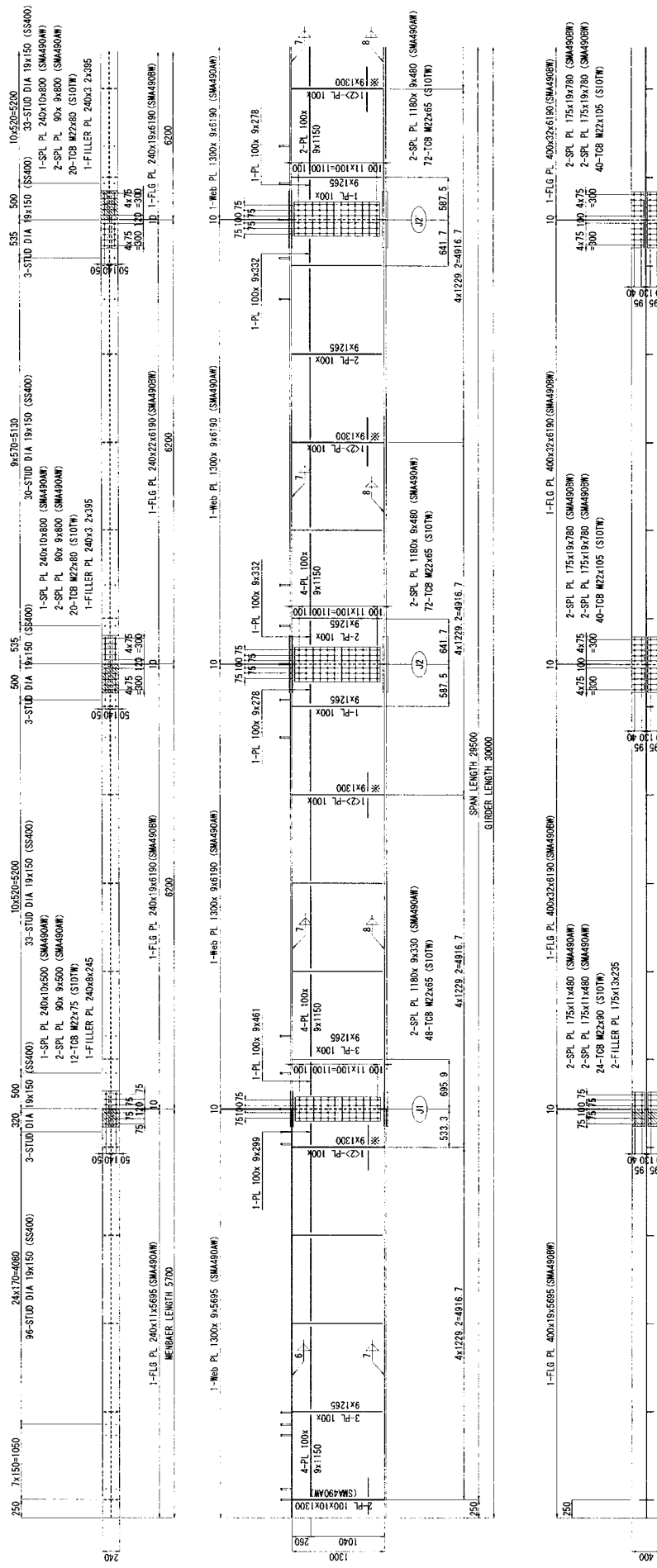
- NOTES:
- 1) Materials to be SHIMADZU unless otherwise noted
 - 2) Field splices shall be connected by T C B (M22 S10TW)
 - 3) Radius of scallop to be 35mm unless noted
 - 4) Lateral bracing are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the center line.

SECTION	SCALE	DRAWING NO.	SHEET NO.
1/8"	1/8"	1-5 MAIN GIRDER 1 (L-30)	07
DATE	DESCRIPTION	APPROVED BY	

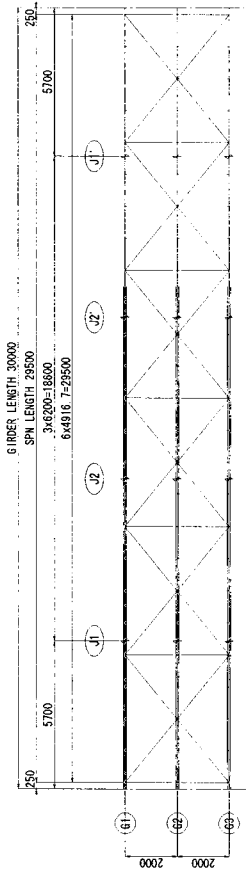
1-5 MAIN GIRDER 1 (L-30) S = 1 / 60

G1, G3 <G2>

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
PROJECTS MANAGEMENT UNIT NO. 14 MINISTRY OF TRANSPORT
PROJECT: THE ANALYSIS OF BRIDGE IN UPPER MIAOQUAN PROVINCE
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD
DESIGNED BY: _____
CHECKED BY: _____
APPROVED BY: _____
NAME: _____
SIGNATURE: _____
DATE: _____



KEY PLAN



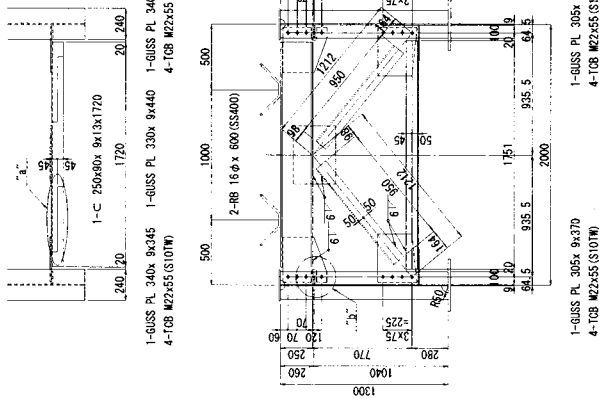
- NOTES:
- 1) Materials to be SMA490W unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M2, S10TW).
 - 3) Radius of scallops to be 35mm unless noted.
 - 4) Area denoted * not to be welded.
 - 5) Main girders are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

1-5 CROSS BEAM, SWAY BRACING (L-30) S = 1 / 40

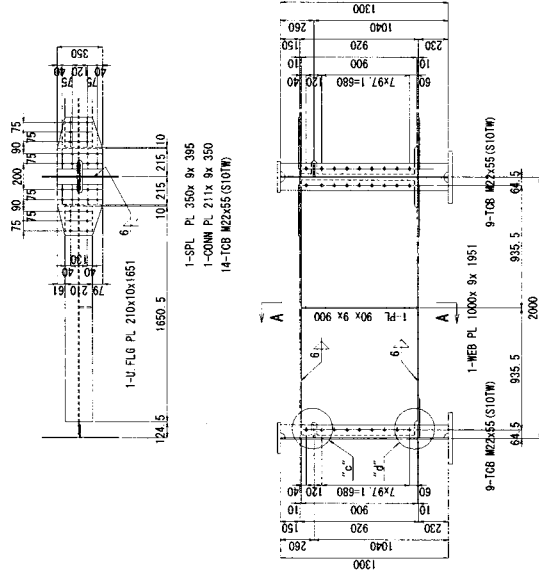
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 10, MINISTRY OF TRANSPORT
 PROJECT: RE-INVEST FOR IMPROVING OF RAIL SIDES IN UPPER HIGHLAND PROVINCES
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD

REVISION	SCALE	DRAWING NO.	SHEET NO.
DATE	1/40		OF

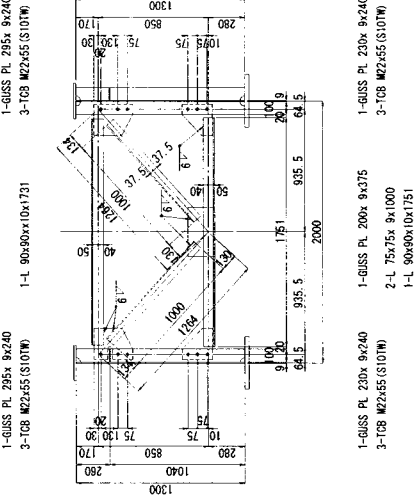
END SWAYBRACING S=1/40



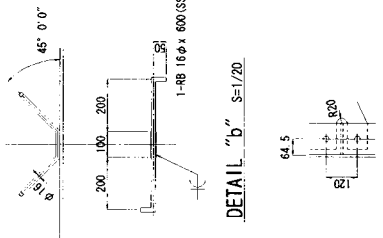
CROSS BEAM S=1/40



INT SWAY BRACING S=1/40

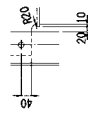


DETAIL "a" S=1/20

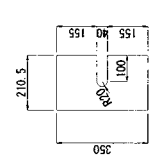


DETAIL "b" S=1/20

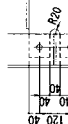
DETAIL "c" S=1/20



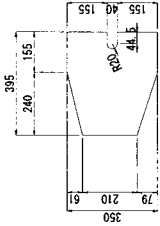
DETAIL OF CONN PL S=1/20



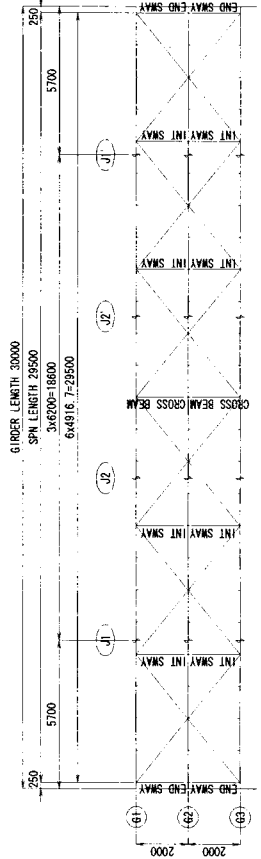
DETAIL "a" S=1/20



DETAIL OF SPL PL S=1/20



KEY PLAN



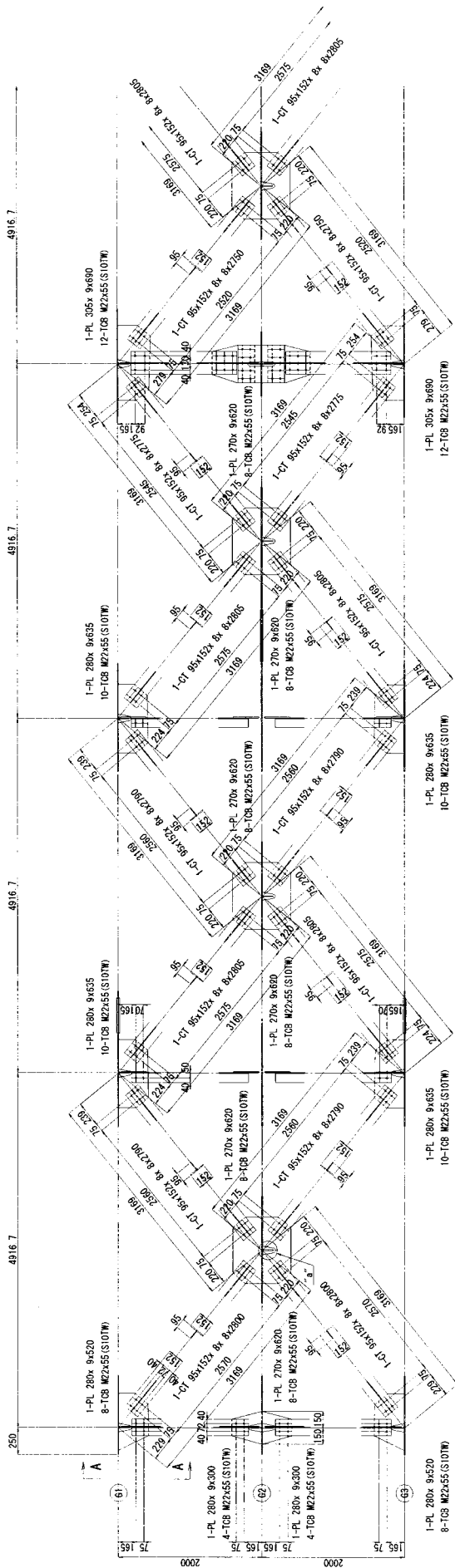
NOTES:

- 1) Materials to be S40004 unless otherwise noted
- 2) t, Mark is set to be T C B (M22 S10T)
- 3) Radius of scall top to be 35mm unless noted

SECTION	SCALE	DRAWING NO.	SHEET NO.
BRIDGE	1/40 (1/60)	1-5 LATERAL BRACING (L-30)	OF
PROJECT	DATE	DESCRIPTION	1: CHANGI
DESIGNED BY			
CHECKED BY			
APPROVED BY			
NAME			
SIGNATURE			
DATE			

1-5 LATERAL BRACING (L-30) S = 1 / 40 (1 / 60)

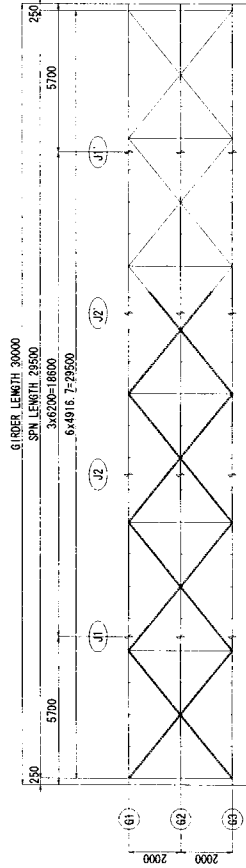
LATERAL BRACING S=1/40(1/60)



DETAIL "a" S=1/20



KEY PLAN



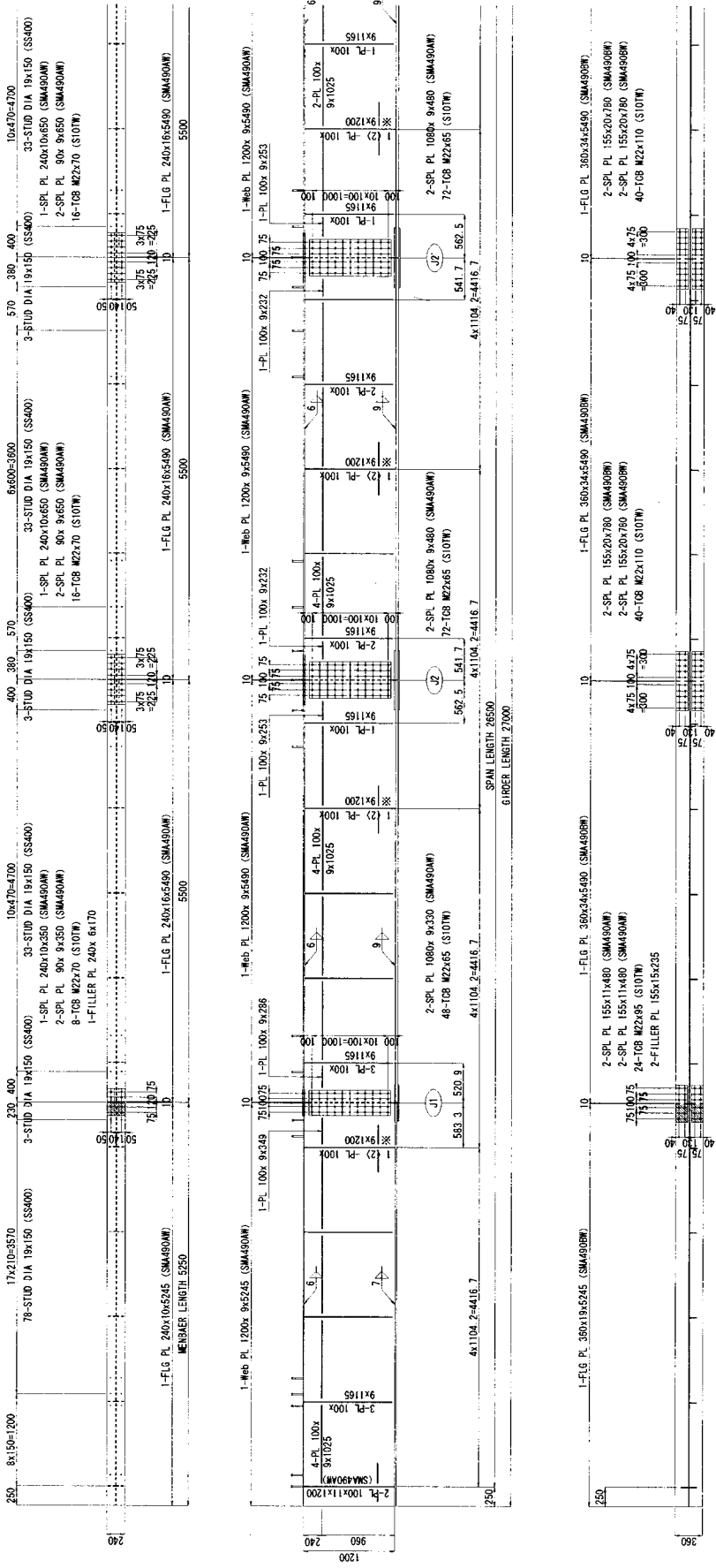
- NOTES:
- 1) Materials to be SMA400W unless otherwise noted
 - 2) Field splices shall be connected by T.C.B. (W22.S10TW)
 - 3) Radius of section to be 35mm unless noted.
 - 4) Lateral bracing are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 13, MINISTRY OF TRANSPORT
 PROJECT: THE RAILWAY FOR IMPROVEMENT OF ROAD BRIDGE IN NORTHERN MOUNTAIN PROVINCES
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 CONSTRUCTION: 1/25/2007
 DESIGN: 1/25/2007
 CHECKED BY: _____
 APPROVED BY: _____
 NAME: _____
 POSITION: _____
 DATE: _____

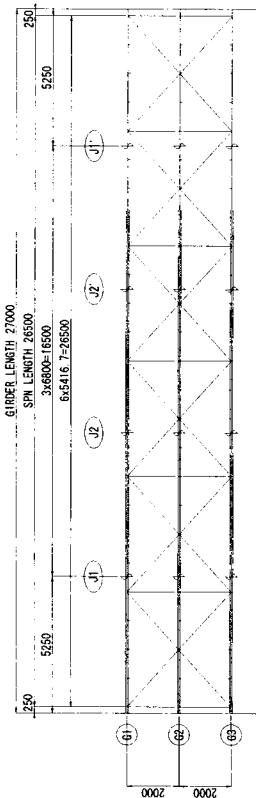
1-6 MAIN GIRDER 1 (L-27) S = 1 / 60

G1, G3 <G2>

SECTION	SCALE	DRAWING NO.	SHEET NO.
DRAWING TITLE	1/8	1-6 MAIN GIRDER 1 (L-27)	OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN

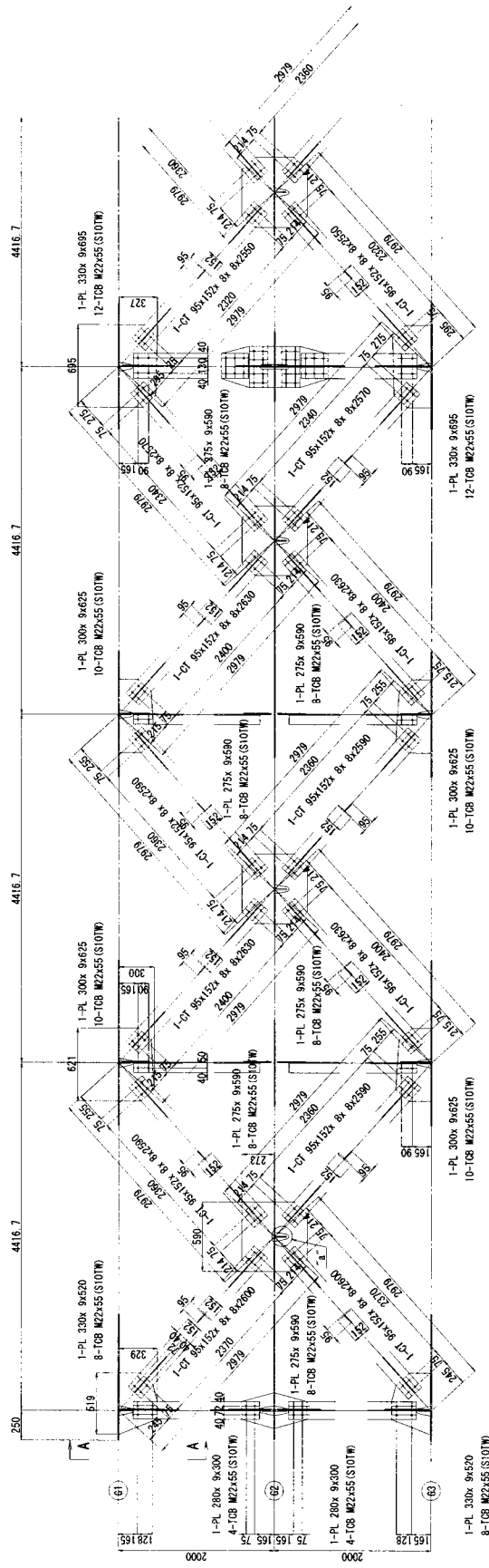


- NOTES:
- 1) Materials to be SMA490MW unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M2, S10TW).
 - 3) Radius of scallop to be 35mm unless noted.
 - 4) Area denoted ⌘ not to be welded.
 - 5) Main girders are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the centerline.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO 14 MINISTRY OF TRANSPORT
 PROJECT THE BRIDGE FOR IMPROVEMENT OF ROAD BRIDGE IN WATSON (VIETNAM BORDER)
 CONSULTANT ORIENTAL CONSULTANTS CO., LTD
 DESIGNED BY: _____ APPROVED BY: _____
 CHECKED BY: _____
 NAME: _____
 POSITION: _____
 DATE: _____

1-6 LATERAL BRACING (L-27) S = 1 / 40 (1 / 60)

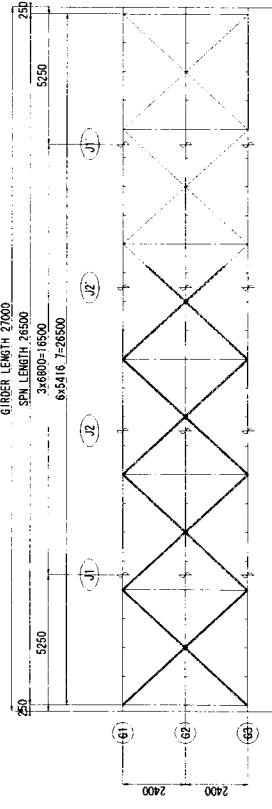
SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/8" = 1'-0"		OF
DRAWING TITLE	DATE	DESCRIPTION	SIGNATURE
REV. NO.			



DETAIL "a" S=1/20



KEY PLAN



- NOTES:
- 1) Materials to be SHIMADZU unless otherwise noted
 - 2) Field splices shall be connected by T C B (M22 S10TW)
 - 3) Radius of scallop to be 35mm unless noted
 - 4) Lateral braces are symmetric with respect to the center of a span, therefore main girders are drawn from A1 to the center line.

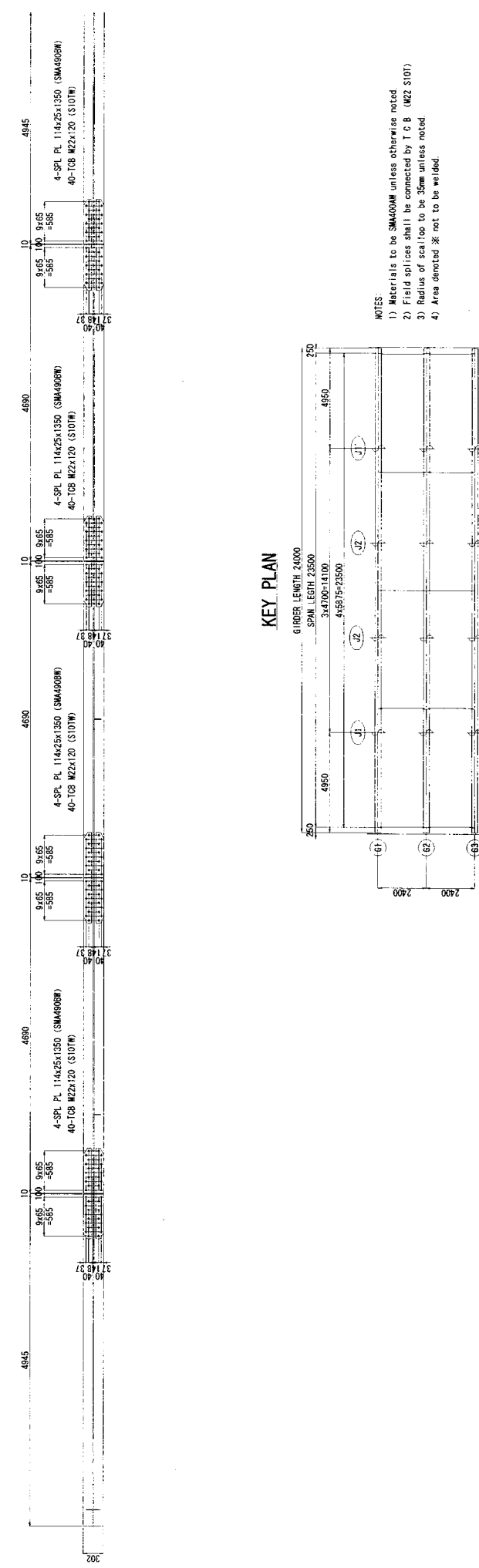
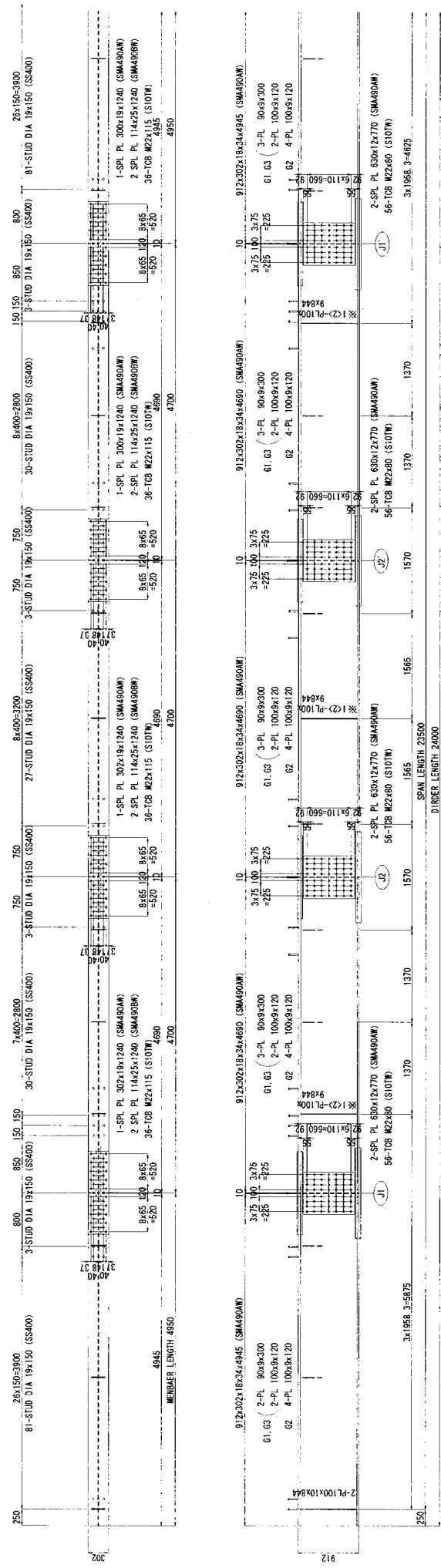
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 15, MINISTRY OF TRANSPORT
 PROJECT: IMPROVEMENT OF ROAD BRIDGE IN HUE PROVINCE (PHU HOA)
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD

2-1 MAIN GIRDER 1 (L-24) S = 1 / 60

G1, G3 <G2>

SECTION	SCALE	SHEET NO.	OF
DRAWING	1/100	1 / 44	
NO.			

DATE	DESCRIPTION	DRAWN BY



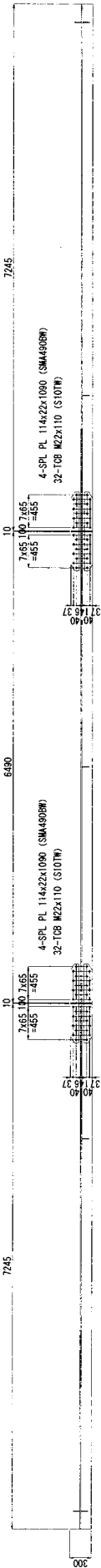
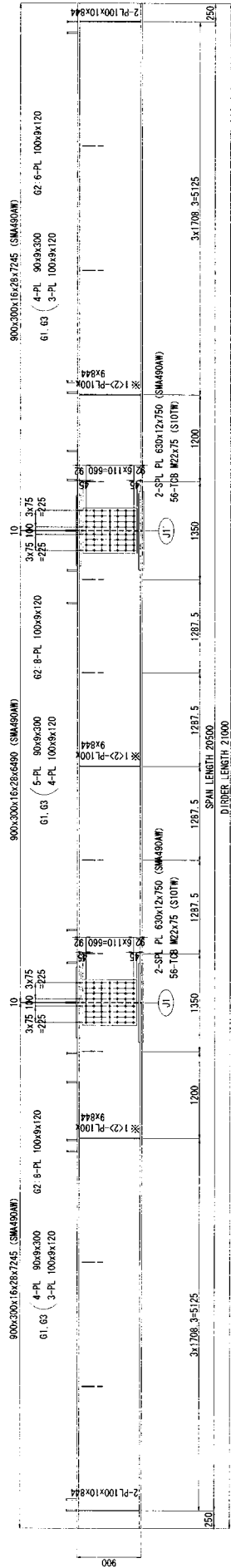
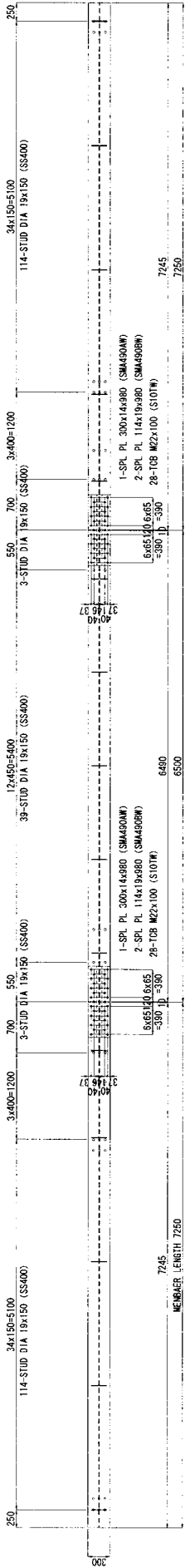
- NOTES:
- 1) Materials to be SMA490AW unless otherwise noted
 - 2) Field splices shall be connected by T-C-B (R22 S10T)
 - 3) Radius of scallow to be 35mm unless noted
 - 4) Area denoted * not to be welded.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 1, MINISTRY OF TRANSPORT
 PROJECT: RE-CONSTRUCTION OF MAIN BRIDGE AT HAI PHONG
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ APPROVED BY: _____
 CHECKED BY: _____ DATE: _____

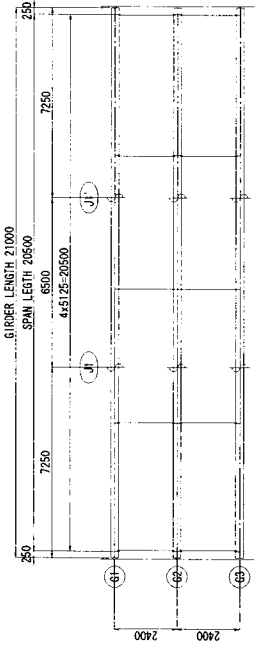
2-2 MAIN GIRDER 1 (L-21) S = 1 / 60

61.63<G2>

SECTION	SCALE	DRAWING NO.	SHEET NO.
DESIGNING	1/60	7-7 MAIN GIRDER 1 (L-21)	OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN



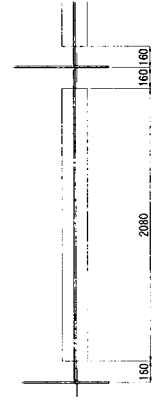
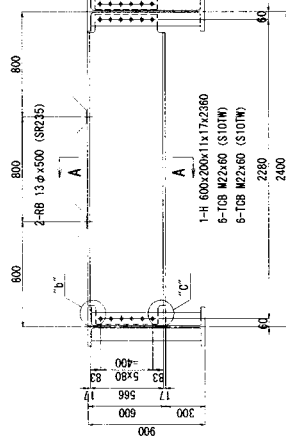
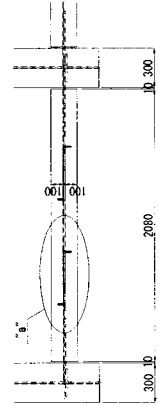
- NOTES:
- 1) Materials to be SMA490M unless otherwise noted
 - 2) Field splices shall be connected by TCB (M22 S10T)
 - 3) Radius of scallops to be 35mm unless noted
 - 4) Area denoted * not to be welded

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECTS MANAGEMENT UNIT NO. 8, MINISTRY OF TRANSPORT	
PROJECT: THE PACT FOR IMPROVE OF ROAD BRIDGES IN URBAN DISTRICTS PHNOM PENH	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD	
DESIGNED BY:	APPROVED BY:
CHECKED BY:	SIGNATURE:
DATE:	DATE:

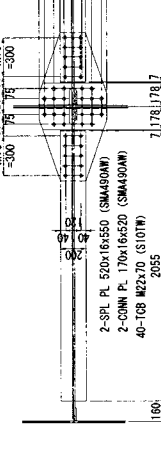
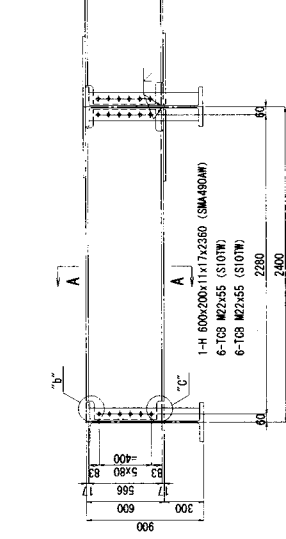
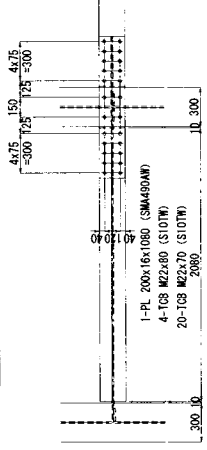
2-2 CROSS BEAM, SWAY BRACING (L-21) S = 1 / 40

SECTION	SCALE	DRAWING NO.	SHEET NO.
BRACING	1/40	2-6 CROSS BEAM, SWAY BRACING	1-33
REV. NO.	DATE	DESCRIPTION	MODIFICATION

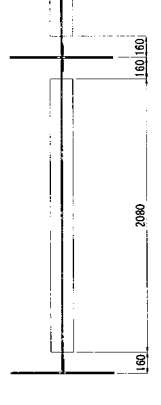
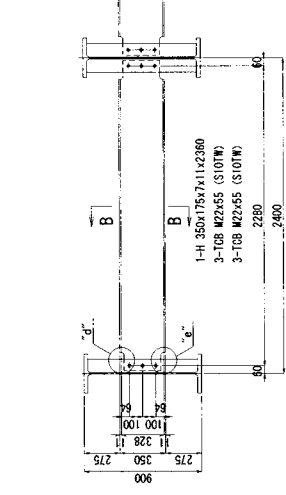
END BEAM $S=1/40$



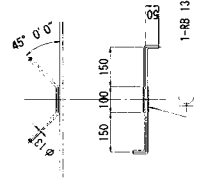
CROSS BEAM $S=1/40$



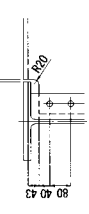
INT BEAM $S=1/40$



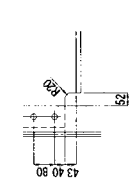
DETAIL "a" $S=1/20$



DETAIL "b" $S=1/20$



DETAIL "c" $S=1/20$



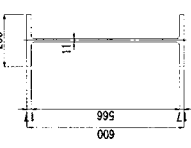
DETAIL "d" $S=1/20$



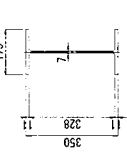
DETAIL "e" $S=1/20$



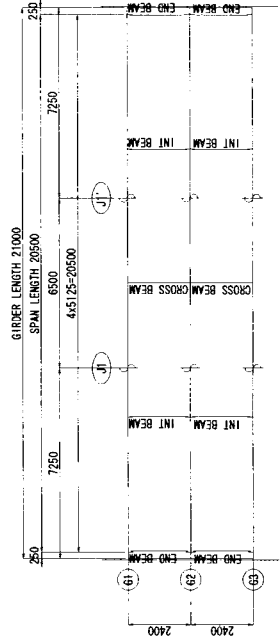
DETAIL "A-A" $S=1/20$



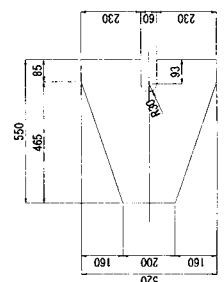
DETAIL "B-B" $S=1/20$



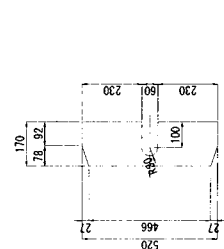
KEY PLAN



DETAIL OF SPL PL $S=1/20$



DETAIL OF CONN PL $S=1/20$



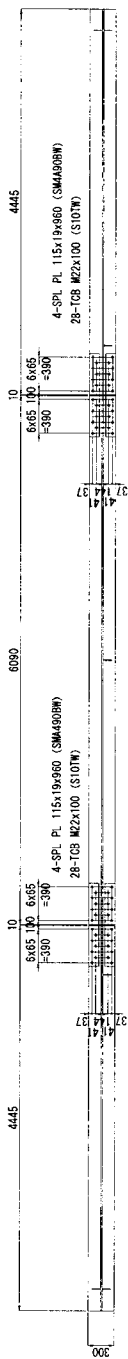
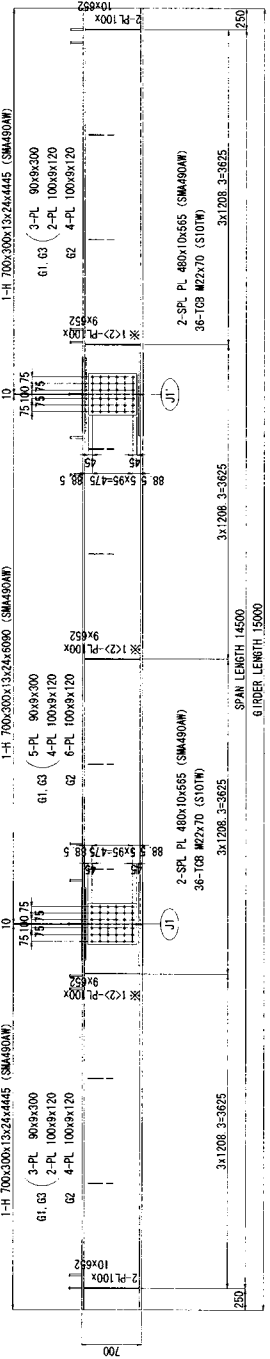
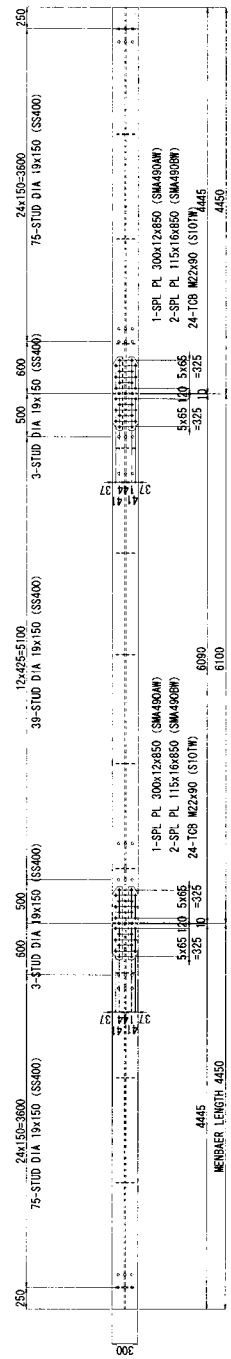
NOTE:
1) Materials to be SMA400MM unless otherwise noted.
2) +Mark is set to be T C B (M22 S10TW).
3) Radius of scallop to be 35mm unless noted.

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1:10		01
TITLE		2-3 MAIN GIRDER 1 (L-15)	
REV. NO.	DATE	DESCRIPTION	SIGNATURE

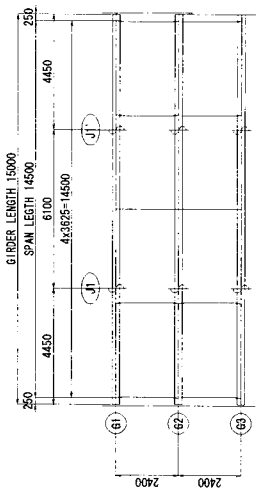
2-3 MAIN GIRDER 1 (L-15) S = 1 / 60

G1.G3<G2>

THE GOVERNMENT OF VIETNAM MINISTRY OF TRANSPORT PROJECT: THE RAISE OF STANDARD OF MAIN RIVERS IN VIETNAM (SARAVI) PHASE 1	
CONTRACT NO.	ORIENTAL CONSULTANTS CO., LTD.
DATE	APPROVED BY



KEY PLAN



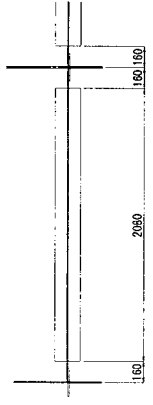
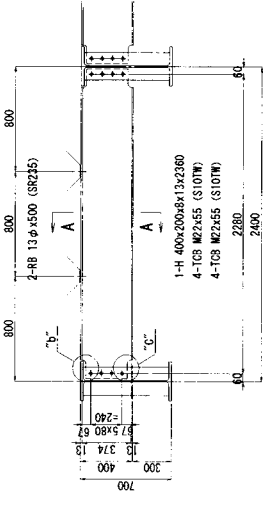
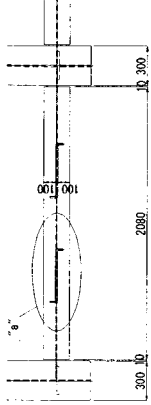
- NOTES:
- 1) Materials to be SMA490M unless otherwise noted.
 - 2) Field splices shall be connected by T.C.B. (M22 S10TW)
 - 3) Radius of scallop to be 35mm unless noted.
 - 4) Area denoted by * not to be welded.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT: BRIDGE FOR IMPROVED ROADWAY IN HAI PHONG PROVINCE
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: CHECKED BY: APPROVED BY:
 SIGNATURE: DATE:

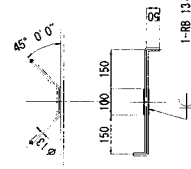
2-3 CROSS BEAM SWAY BRACING (L-15) S = 1 / 40

SECTION: SCALE: DRAWING NO: SHEET NO: OF:
 DRAWING: 2-6 CROSS BEAM SWAY BRACING (L-15)
 DATE: DESCRIPTION: SIGNATURE:

END BEAM S=1/40



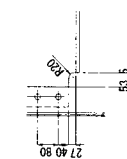
DETAIL "a" S=1/20



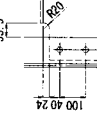
DETAIL "b" S=1/20



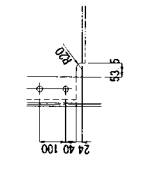
DETAIL "c" S=1/20



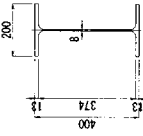
DETAIL "d" S=1/20



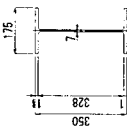
DETAIL "e" S=1/20



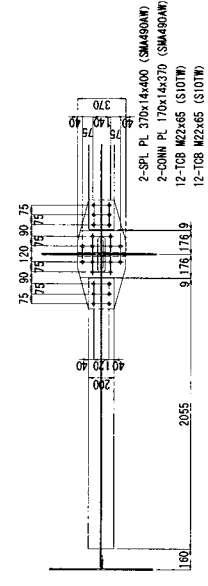
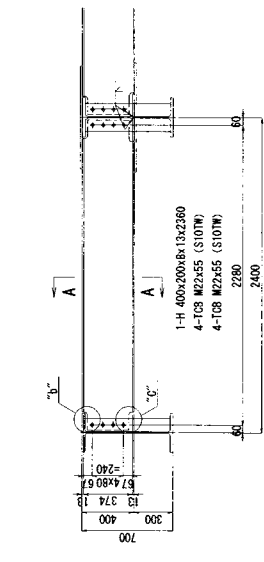
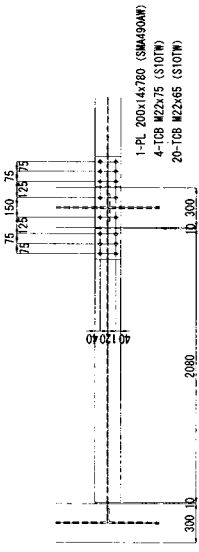
A - A S=1/20



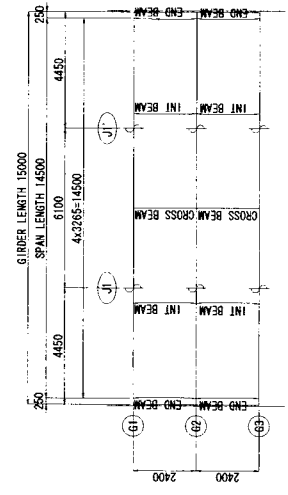
B - B S=1/20



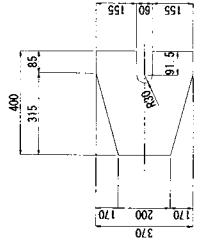
CROSS BEAM S=1/40



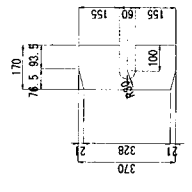
KEY PLAN



DETAIL OF SPL PL S=1/20



DETAIL OF COMM PL S=1/20



NOTE:
 1) Materials to be SMA490M unless otherwise noted.
 2) Mark is set to be T C B (M22 S10TW).
 3) Radius of section to be 3mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 12, MINISTRY OF TRANSPORT
 PROJECT: REPAIR FOR IMPROVING OF ROAD BRIDGE IN EXPANDED HIGHWAY PHUONG
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD

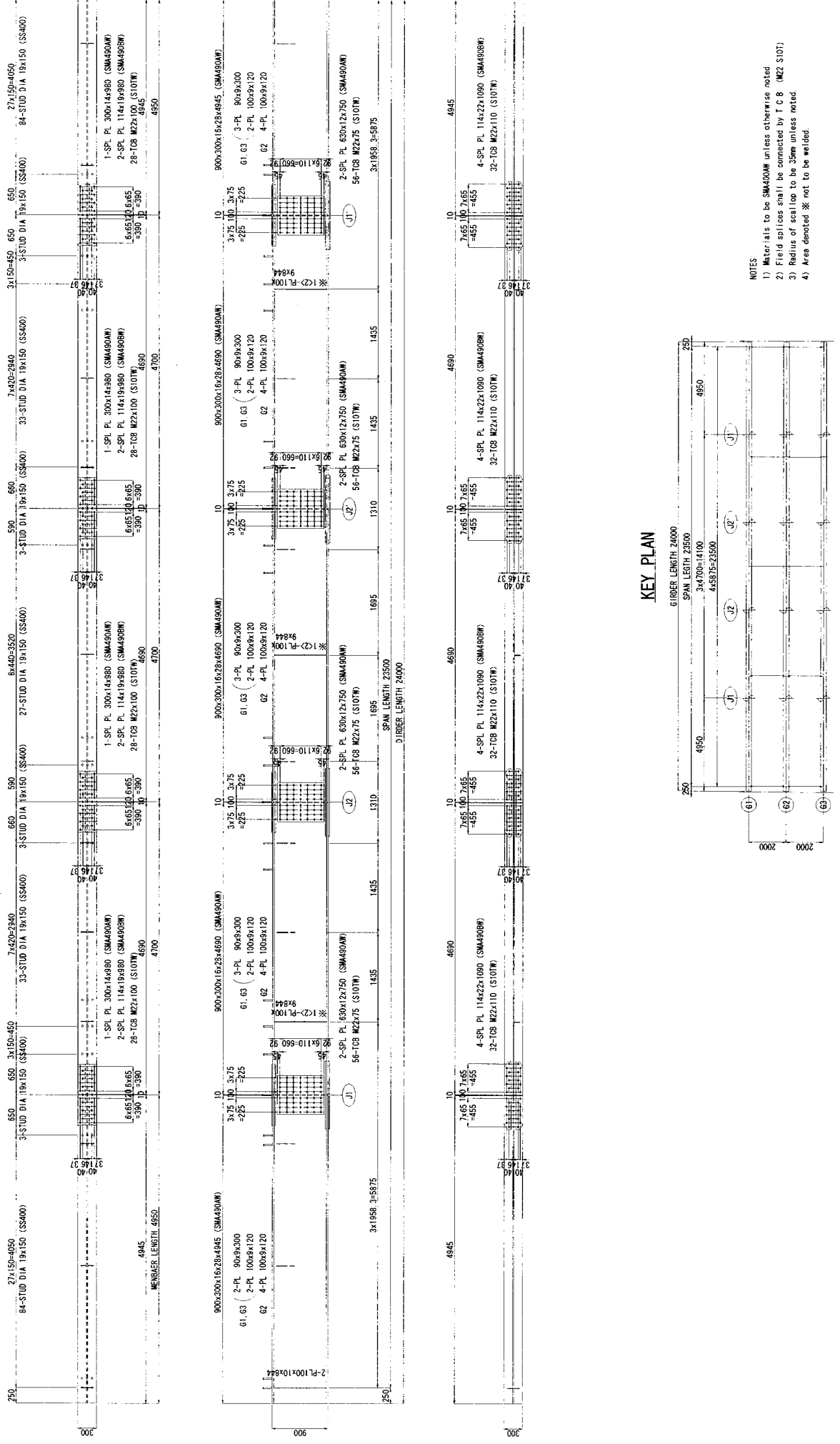
DESIGNED BY	CHECKED BY	APPROVED BY
NAME	NAME	NAME
DATE	DATE	DATE

2-4 MAIN GIRDER 1 (L-24)

S = 1 / 60

G1, G3<G2>

SECTION	SCALE	DRAWING NO.	SHEET NO.
DATE	1/8	7-4 MAIN GIRDER 1 (L-24)	OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE



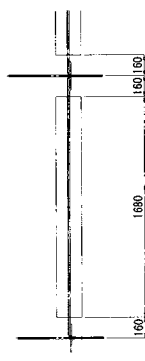
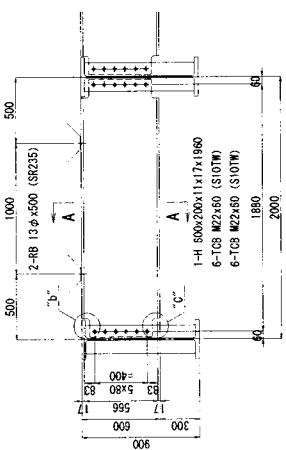
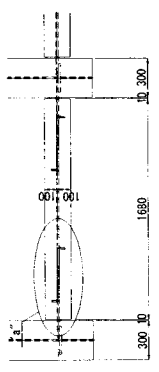
- NOTES**
- 1) Materials to be SMA490W unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M22 S10T).
 - 3) Radius of callout to be 35mm unless noted.
 - 4) Area denoted * not to be welded.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT: MANULIEN UNIT NO. 13 HIGHWAY OF TRANSPORT
 PROJECT: IN THE AREA OF PHUQUOC ISLAND (KHOANG KIANG PROVINCE)
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 DRAWING NO.: _____
 DATE: _____

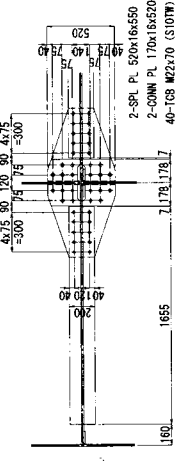
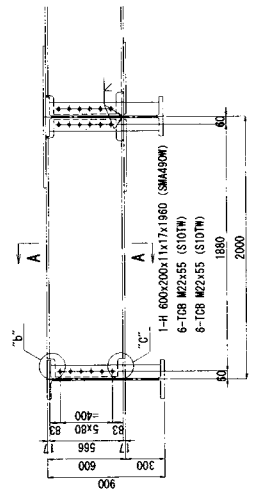
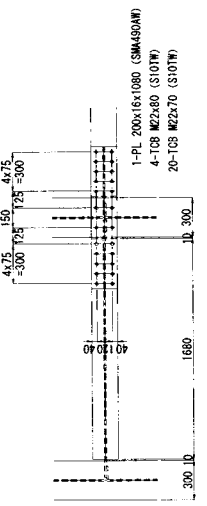
2-4 CROSS BEAM, SWAY BRACING (L-24) S = 1 / 40

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/B		OF
DRAWING TITLE	2-4 CROSS BEAM, SWAY BRACING (L-24)		
REV. NO.	DATE	DESCRIPTION	SIGNATURE

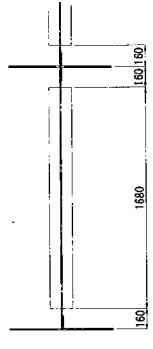
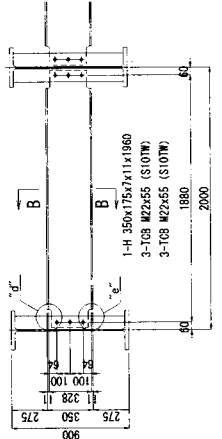
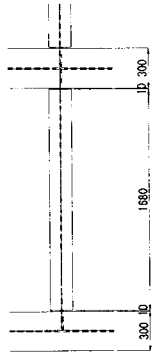
END BEAM S=1/40



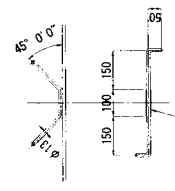
CROSS BEAM S=1/40



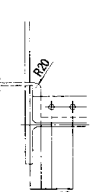
INT BEAM S=1/40



DETAIL "a" S=1/20



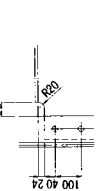
DETAIL "b" S=1/20



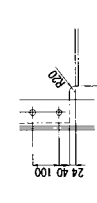
DETAIL "c" S=1/20



DETAIL "d" S=1/20



DETAIL "e" S=1/20



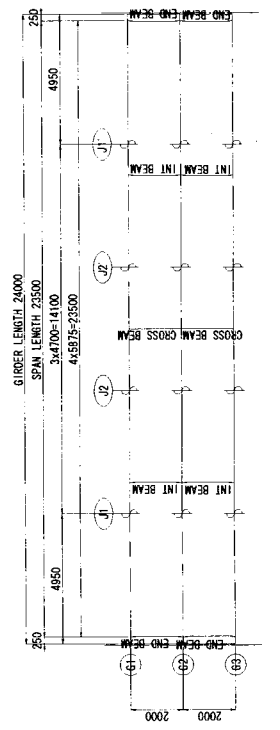
A - A S=1/20



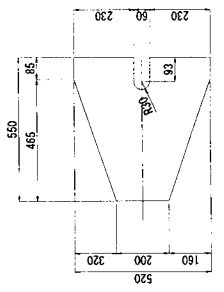
B - B S=1/20



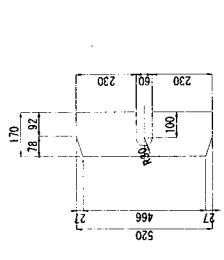
KEY PLAN



DETAIL OF SPL PL S=1/20



DETAIL OF CONN PL S=1/20



NOTE:
 1) Materials to be SMA450M unless otherwise noted.
 2) Mark is set to be T C B (M22, S107M).
 3) Radius of scallop to be 35mm unless noted.

THE CONSULTANT OR SPECIALIST RESPONSIBLE FOR VETERINARY PROJECT MANAGEMENT WILL NOT BE A MEMBER OF PARASITARY IN RESPECT OF ANIMALS IN THE MINISTRY OF TRANSPORT OR IN RESPECT OF ANIMALS IN THE MINISTRY OF DEFENSE

CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.

DESIGNED BY: _____

CHECKED BY: _____

APPROVED BY: _____

NAME: _____

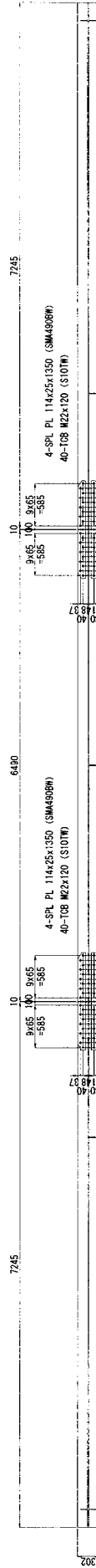
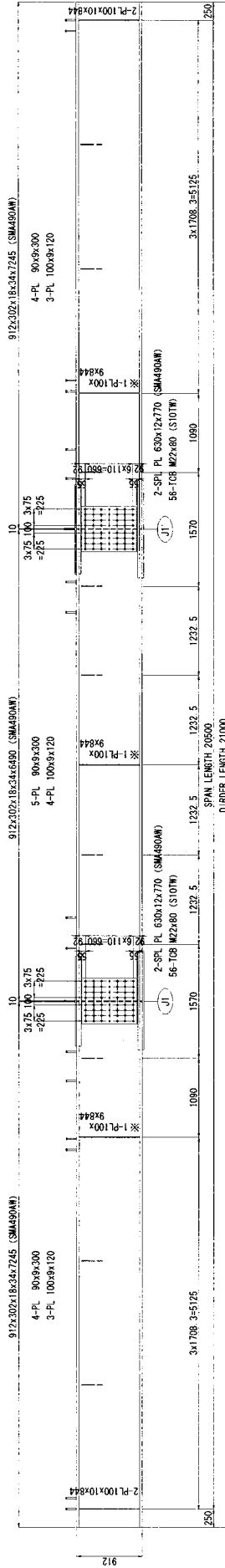
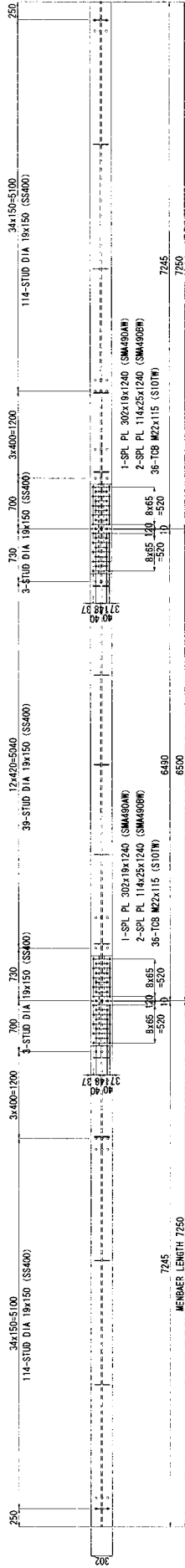
SIGNATURE: _____

DATE: _____

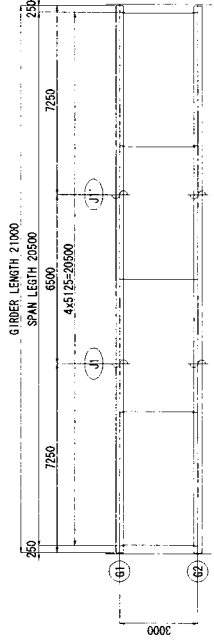
2-5 MAIN GIRDER 1 (L-21) S = 1 / 60

G1, G2

SECTION		SCALE	DRAWING NO.	SHEET NO.
DRAWING TITLE		1/60	2-5 MAIN GIRDER 1 (L-21)	OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE	



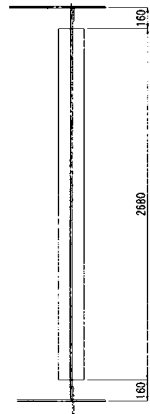
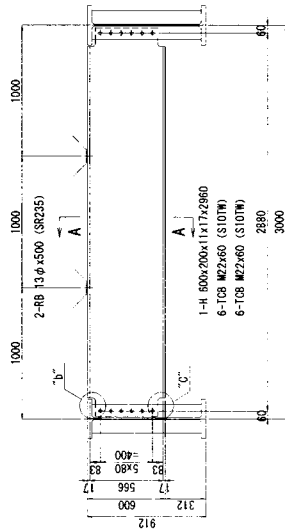
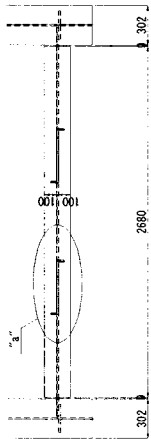
KEY PLAN



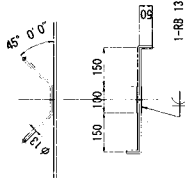
- NOTES:
- 1) Materials to be SMA490M unless otherwise noted
 - 2) Field splices shall be connected by T.C.B. (R22 S10T)
 - 3) Radius of scall to be 35mm unless noted
 - 4) Area denoted * not to be welded

2-5 CROSS BEAM , SWAY BRACING (L-21) S = 1 / 40

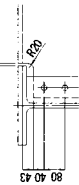
END BEAM S=1/40



DETAIL "a" S=1/20



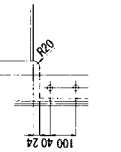
DETAIL "b" S=1/20



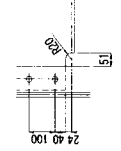
DETAIL "d" S=1/20



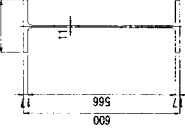
DETAIL "e" S=1/20



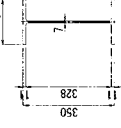
DETAIL "e" S=1/20



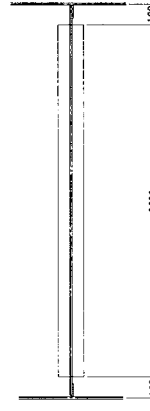
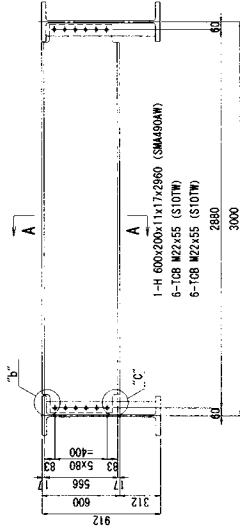
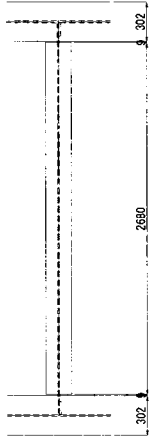
A - A S=1/20



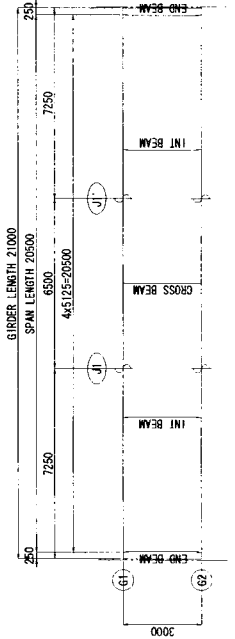
B - B S=1/20



CROSS BEAM S=1/40



KEY PLAN



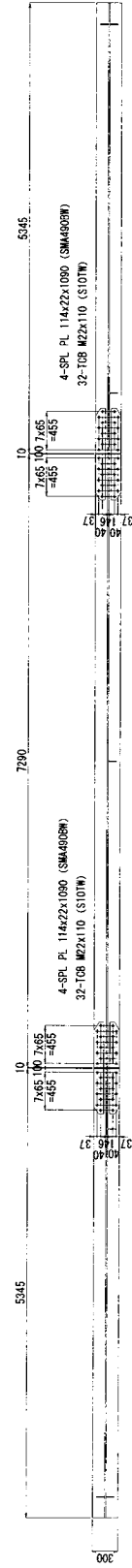
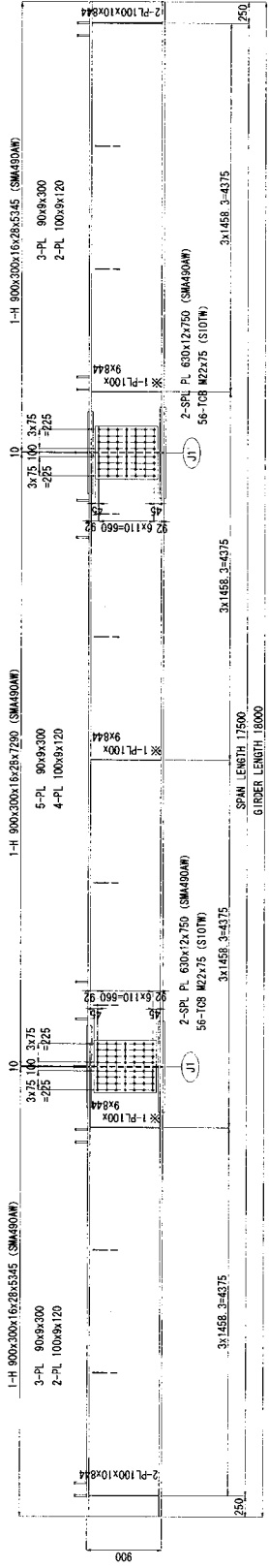
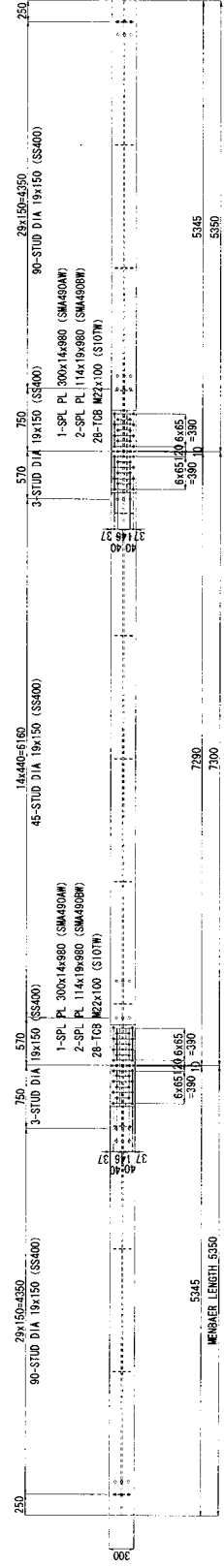
NOTE:
 1) Materials to be SMA490BW unless otherwise noted.
 2) Mark is set to be T C B (M22 S107N).
 3) Radius of scallop to be 35mm unless noted.

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/4"		OF
TITLE			
DATE			
REV. NO.			
DESCRIPTION			
SIGNATURE			

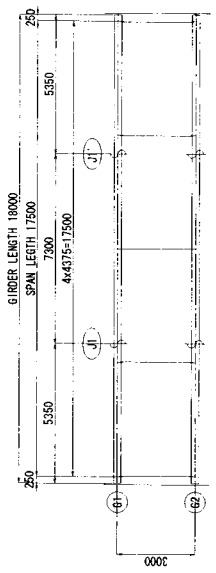
2-6 MAIN GIRDER 1 (L-18) S = 1 / 60

61, 62

THE GOVERNMENT OF ASSAM PROJECT MANAGEMENT UNIT NO. 14, MINISTRY OF TRANSPORT
CONTRACT NO. 100/2018-19 ORIENTAL CONSULTANTS CO., LTD.
DESIGNED BY: _____
CHECKED BY: _____
APPROVED BY: _____
NAME: _____
SIGNATURE: _____
DATE: _____



KEY PLAN



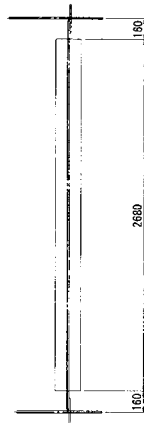
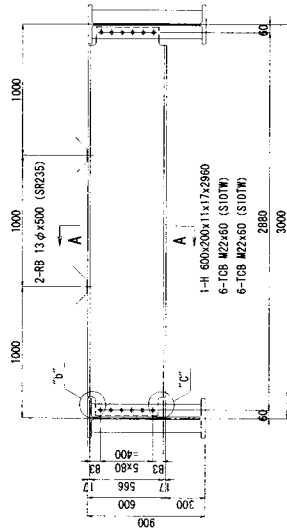
- NOTES:
- 1) Materials to be SMA490M unless otherwise noted.
 - 2) Field splices shall be connected by T-CB (M22 S10TW)
 - 3) Radius of scallap to be 35mm unless noted.
 - 4) Area denoted by * not to be welded.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT: IN THE FIELD OF IMPROVING AND MAINTAINING WATERWAYS
 CONSULTANT: ORIGINAL CONSULTANTS CO., LTD.
 DESIGN BY: ENTERED BY: APPROVED BY:
 NAME: DATE: SIGNATURE: DATE:

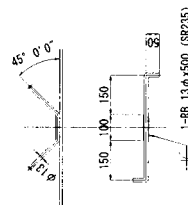
2-6 CROSS BEAM (L-18) S = 1 / 40

SECTION: SCALE: DRAWING NO. SHEET NO. OF
 1/4
 2-6 CROSS BEAM SWAY BRACING (L-33)
 REV. NO. DATE DESCRIPTION SIGNATURE

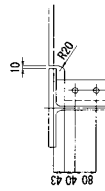
END BEAM S=1/40



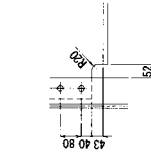
DETAIL "a" S=1/20



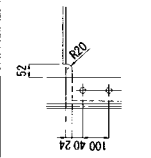
DETAIL "b" S=1/20



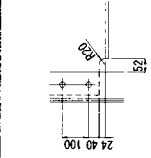
DETAIL "c" S=1/20



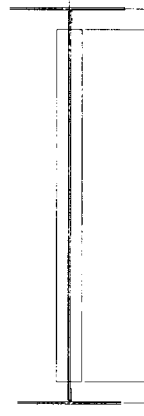
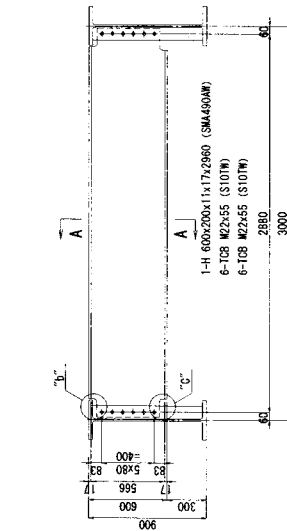
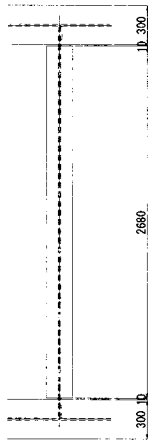
DETAIL "d" S=1/20



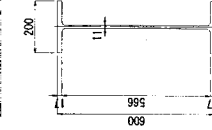
DETAIL "e" S=1/20



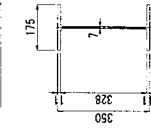
CROSS BEAM S=1/40



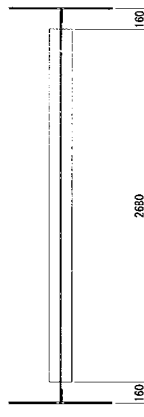
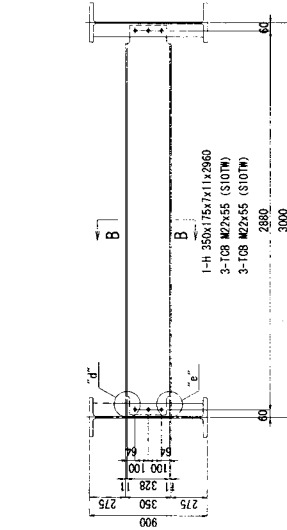
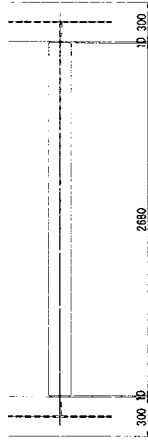
A - A S=1/20



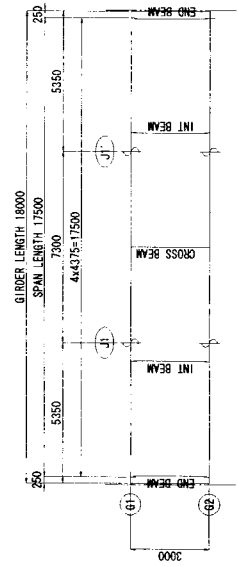
B - B S=1/20



INT. BEAM S=1/40



KEY PLAN



NOTE:
 1) Materials to be SMA400MM unless otherwise noted
 2) Mark is set to be T C B (M22, S101W)
 3) Radius of scallop to be 35mm unless noted

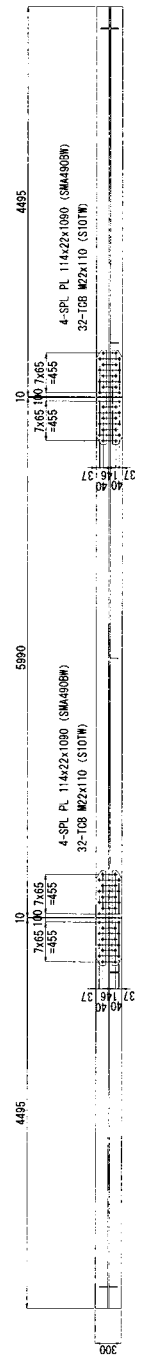
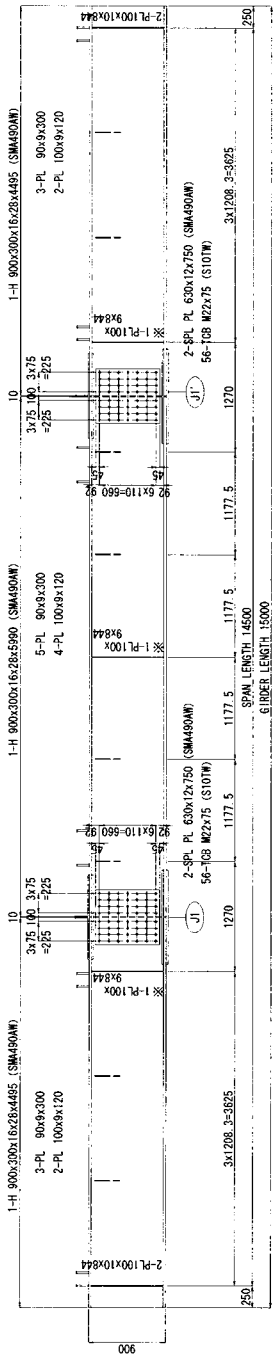
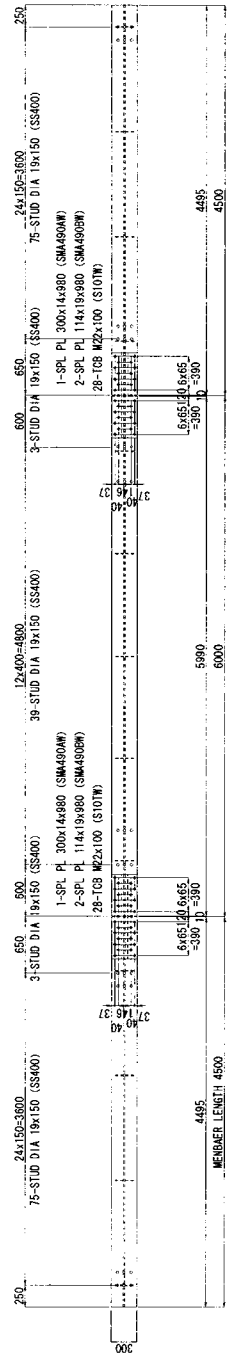
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECTS MANAGEMENT UNIT NO 18 MINISTRY OF TRANSPORT
 PROJECT: BRIDGE FOR IMPROVING OF ROAD BOND IN BACH LUONG (BACH LUONG BRIDGE)
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD

DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 NAME: _____ SIGNATURE: _____
 DATE: _____

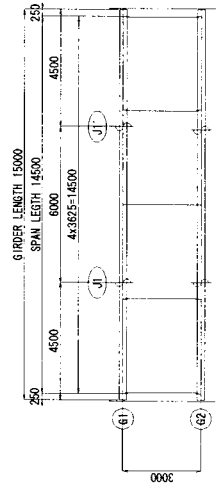
SECTION: _____ SCALE: 1/8 DRAWING NO. _____ SHEET NO. 61 OF 67
 TITLE: 2-7 MAIN GIRDER 1 (L-15)
 REV. NO. _____ DATE: _____ DESCRIPTION: _____ SIGNATURE: _____

2-7 MAIN GIRDER 1 (L-15) S = 1 / 60

61, 62



KEY PLAN



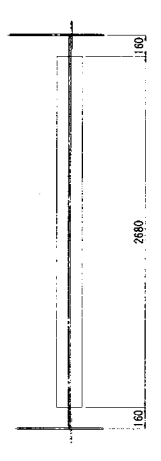
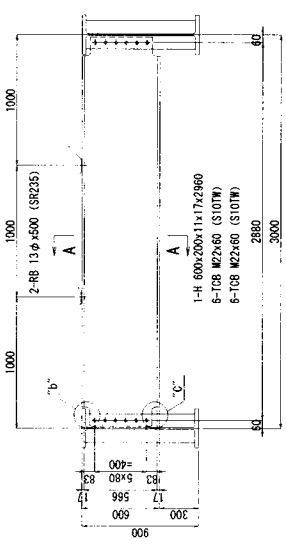
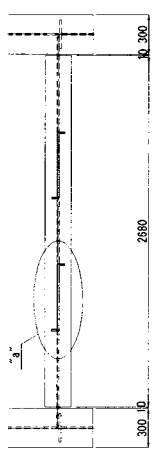
NOTES:
 1) Materials to be SMA490HW unless otherwise noted.
 2) Field splices shall be connected by TCB (W22 S10TW)
 3) Radius of seal top to be 35mm unless noted
 4) Area denoted * not to be welded.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 15, DISTRICT OF HOANGLOU
 PROJECT: THE PROJECT OF IMPROVEMENT OF ROAD BRIDGES IN DISTRICT HOANGLOU
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 SIGNATURE: _____ DATE: _____

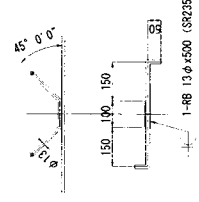
2-7 CROSS BEAM (L-15) S = 1 / 40

SECTION	SCALE	DRAWING NO.	SHEET NO.
2-7 CROSS BEAM (L-15)	1/40		OF
REV. NO.	DATE	DESCRIPTION	BY

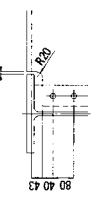
END BEAM S=1/40



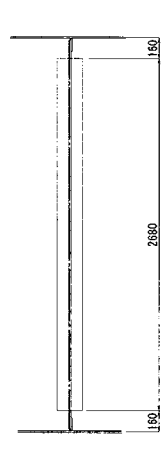
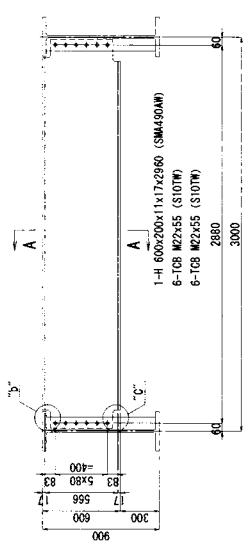
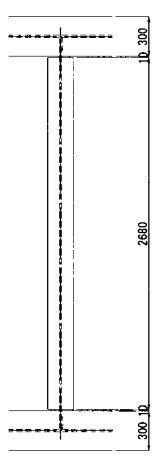
DETAIL "a" S=1/20



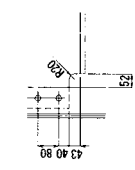
DETAIL "b" S=1/20



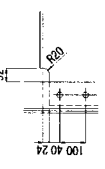
CROSS BEAM S=1/40



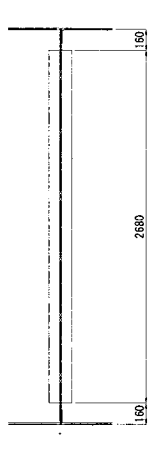
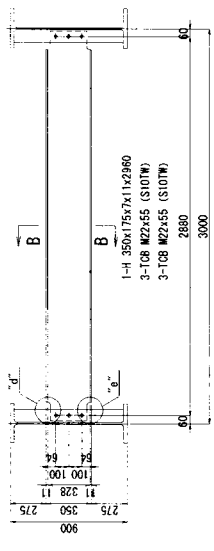
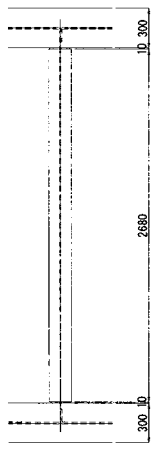
DETAIL "c" S=1/20



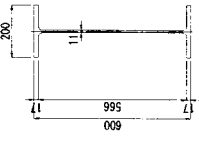
DETAIL "d" S=1/20



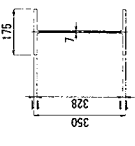
INT. BEAM S=1/40



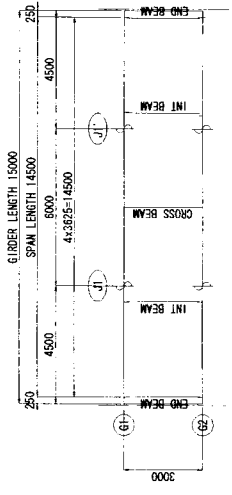
A - A S=1/20



B - B S=1/20



KEY PLAN

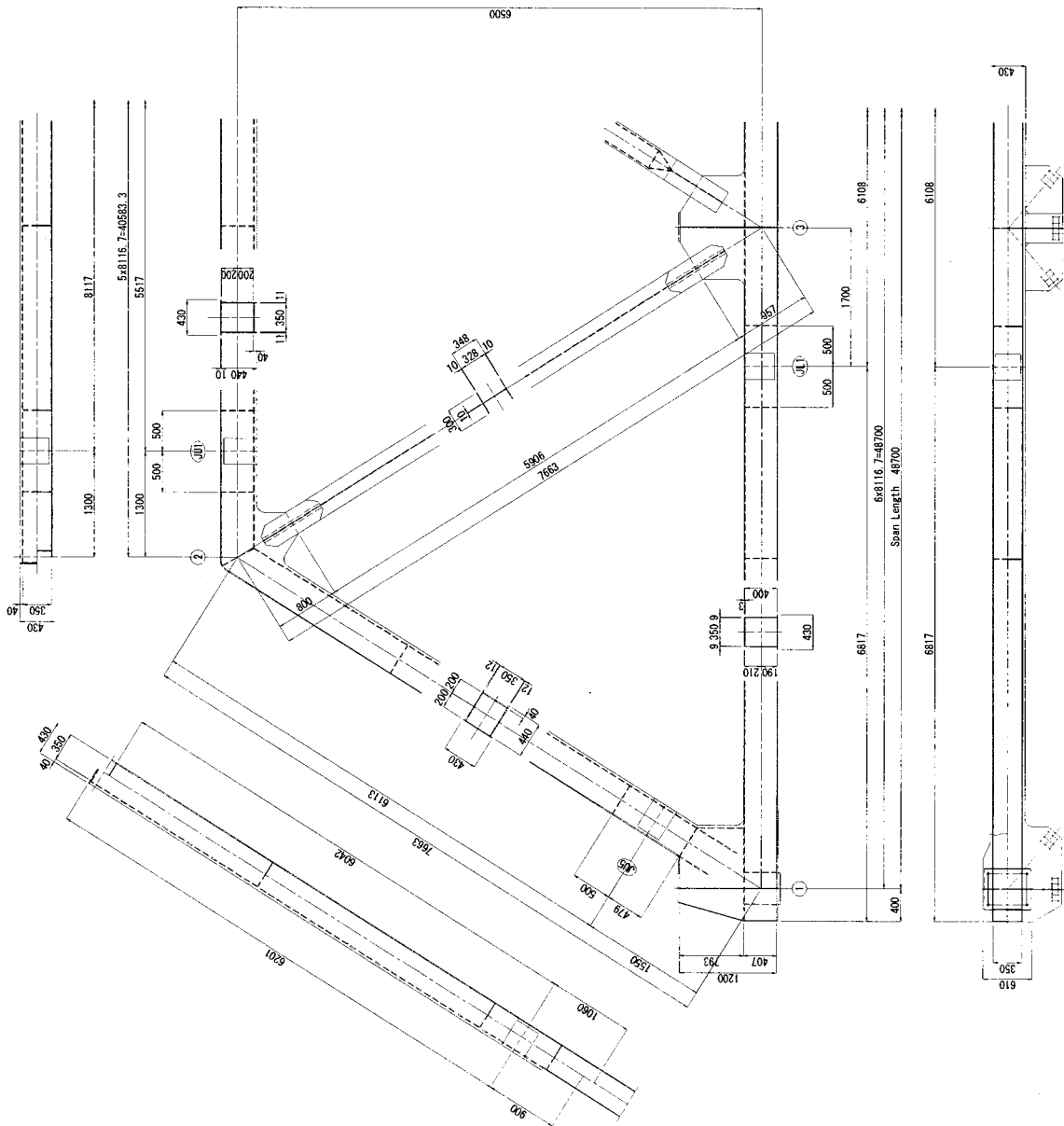


NOTE:
 1) Materials to be SMA400M unless otherwise noted.
 2) Mark is set to be T C B (M22, S101W).
 3) Radius of scallop to be 35m unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECTS MANAGEMENT UNIT NO. 1, MINISTRY OF TRANSPORT
 PROJECT: REPAIR FOR IMPROVEMENT OF ROAD BRIDGES IN BACH HOANG PROVINCE
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 DRAWING NO: _____ DATE: _____

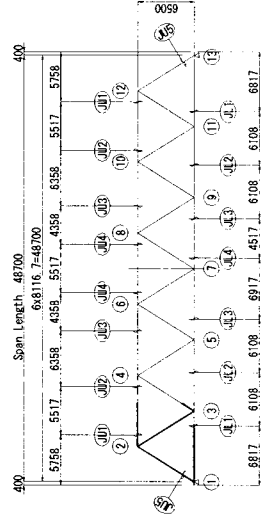
3-1 MAIN MEMBERS - 1

SCALE = 1/30



KEY PLAN

SCALE = 1/300



- NOTES:
- 1) Materials to be SML400M unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M22, S10TW).
 - 3) Radius of seal loop to be 35mm unless noted.

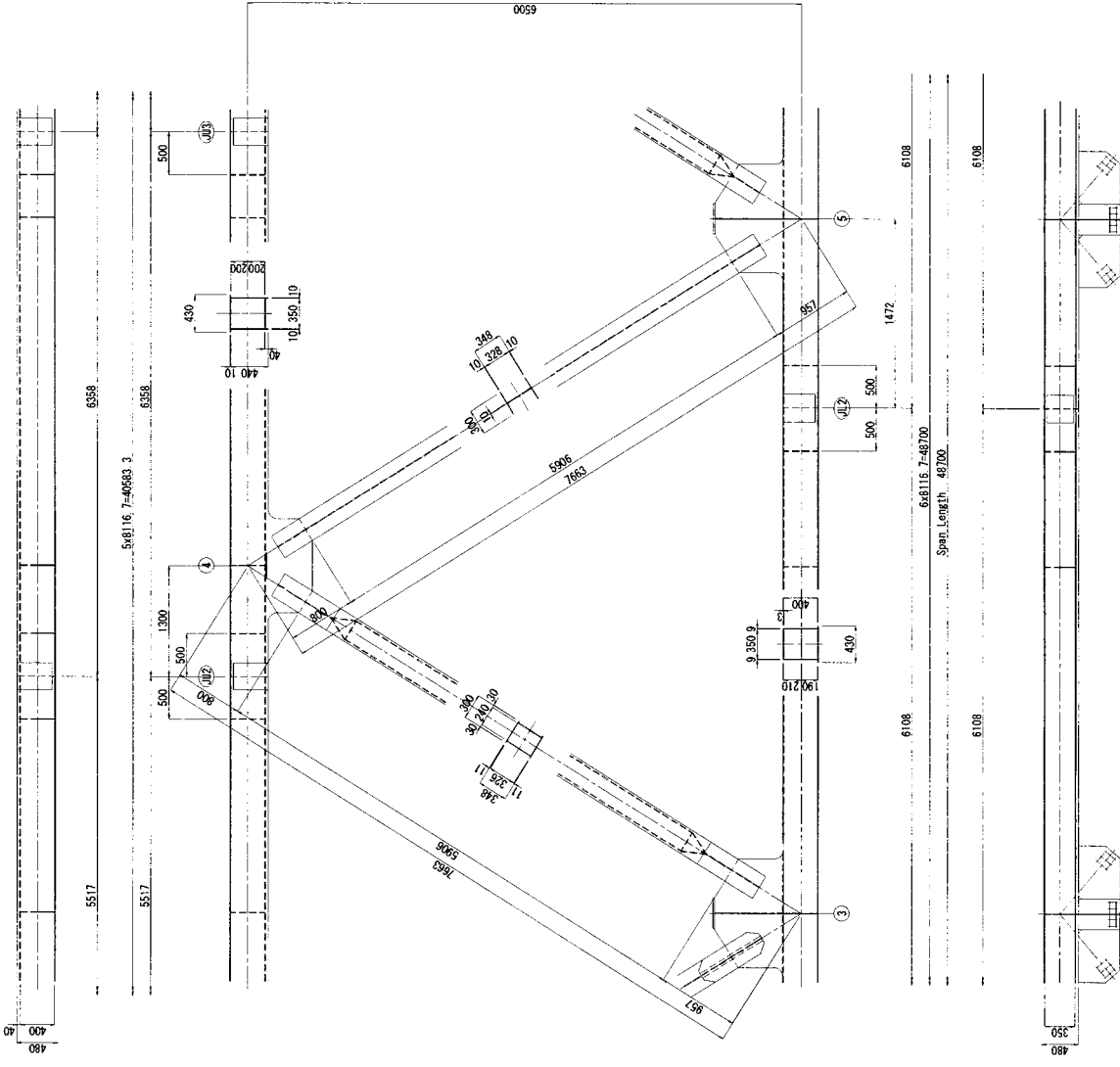
SECTION	SCALE	DRAWING NO.	SHEET NO.
DRAWING NO.	1/30	3-1 MAIN MEMBERS - 1	1
DRAWING NO.		DESCRIPTION	
DRAWING NO.		DATE	

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	PROJECT NO.	DATE
MINISTRY OF TRANSPORTATION	PROJECT NAME	PROJECT NO.
GENERAL CONSULTANTS CO., LTD	DESIGNED BY	DATE
	CHECKED BY	
	APPROVED BY	
SIGNATURE		

3-1 MAIN MEMBERS - 2

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/30	01	OF
TITLE		3-1 MAIN MEMBERS - 2	
REV. NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN
SCALE = 1/300

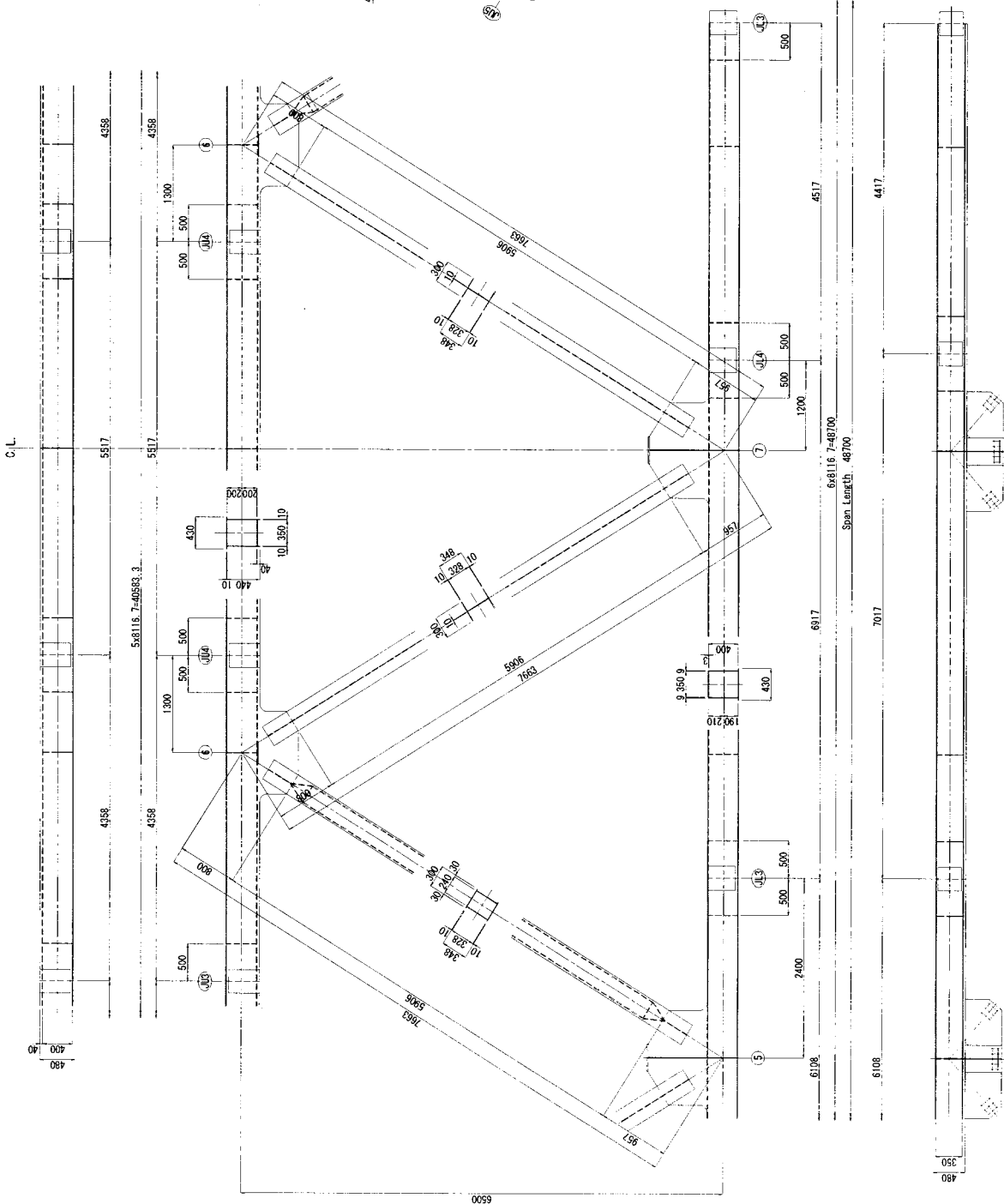
- NOTES:
- 1) Materials to be SHAKODAM unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M22.5(0)M).
 - 3) Radius of scall to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 14, MINISTRY OF TRANSPORT
 PROJECT: THE PROJECT FOR IMPROVEMENT OF ROAD BRIDGES IN NORTHERN MOUNTAIN PROVINCES
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD
 DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 DRAWING NO. _____ DATE _____
 SHEET NO. _____ OF _____

3-1 MAIN MEMBERS - 3

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
REMARKS	1/30	3-1 MAIN MEMBERS - 3	OF
TITLE	DATE	DESCRIPTION	SIGNATURE
KEY NO.			



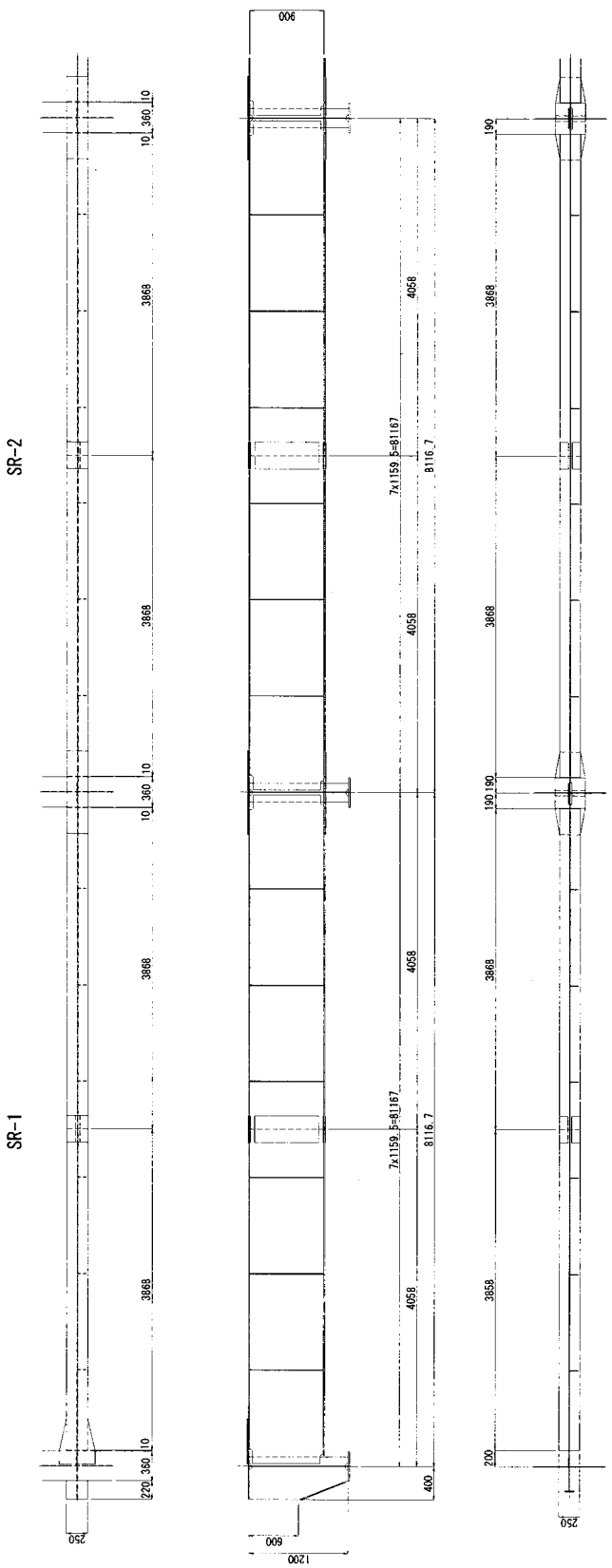
- NOTES:
- 1) Materials to be SMA400MP unless otherwise noted.
 - 2) Field splices shall be connected by F C B (M22.5(01W)).
 - 3) Radius of scallow to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT: REPAIR AND IMPROVE THE ROAD IN THE AREA OF THE
 ORIGINAL CONSULTANTS CO., LTD.
 DESIGNED BY: [] APPROVED BY: []
 NAME: [] DATE: []
 SIGNATURE: []

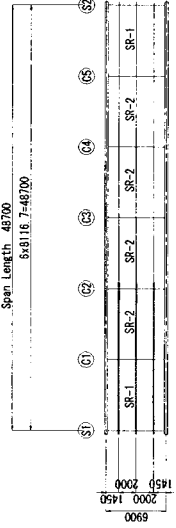
3-1 FLOOR BEAM

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
SR-1	1/30	3-1 FLOOR BEAM	OF
DATE		DESCRIPTION	SIGNATURE



KEY PLAN
 SCALE = 1/300



- NOTES:
- 1) Materials to be SMAADOM unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M22.50TW)
 - 3) Radius of scall top to be 35mm unless noted

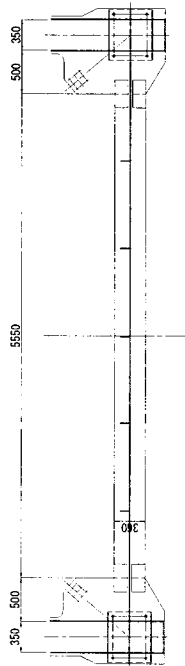
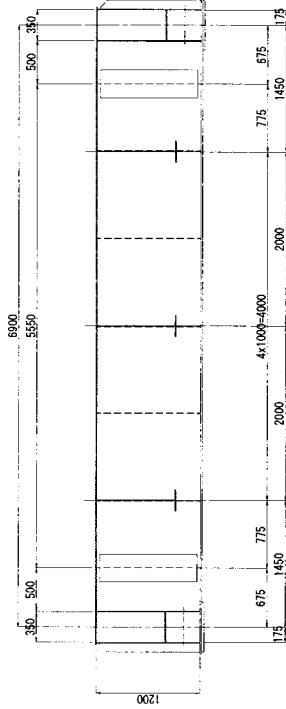
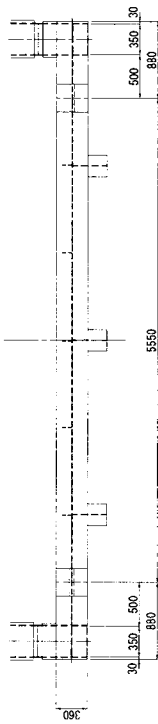
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 11, MINISTRY OF TRANSPORT
 PROJECT: REPAIR FOR IMPROVEMENT OF ROAD BRIDGE II (BRIDGE) PROJECTS
 CONTRACTOR: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 DRAWN BY: _____ DATE: _____

3-1 CROSS BEAM

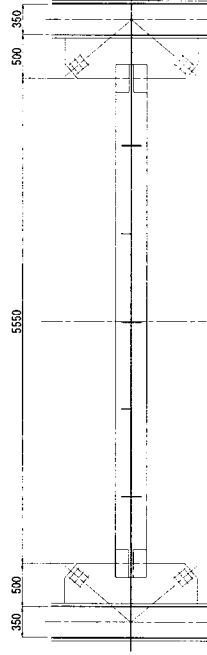
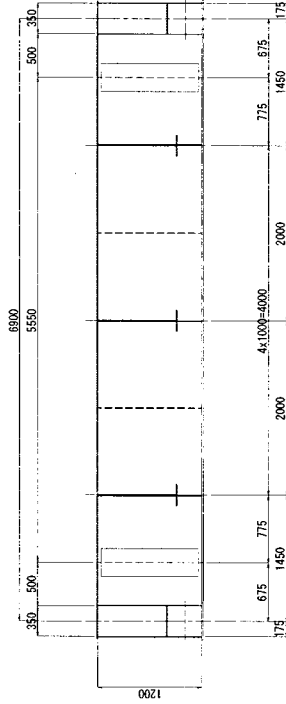
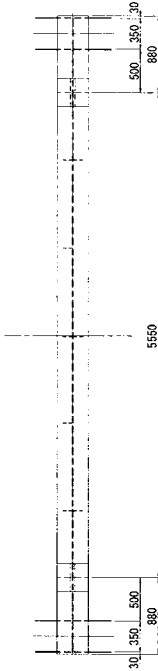
SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/30	CT-	OF
DRAWING TITLE		3-1 CROSS BEAM	
REV. NO.	DATE	DESCRIPTION	SIGNATURE

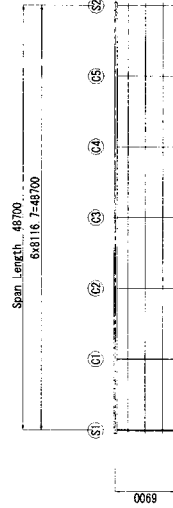
(S1) ~ (S2)



(C1) ~ (C5)



KEY PLAN
 SCALE = 1/300



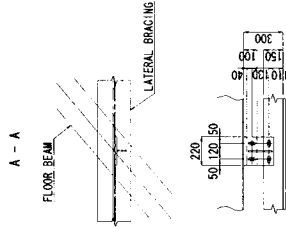
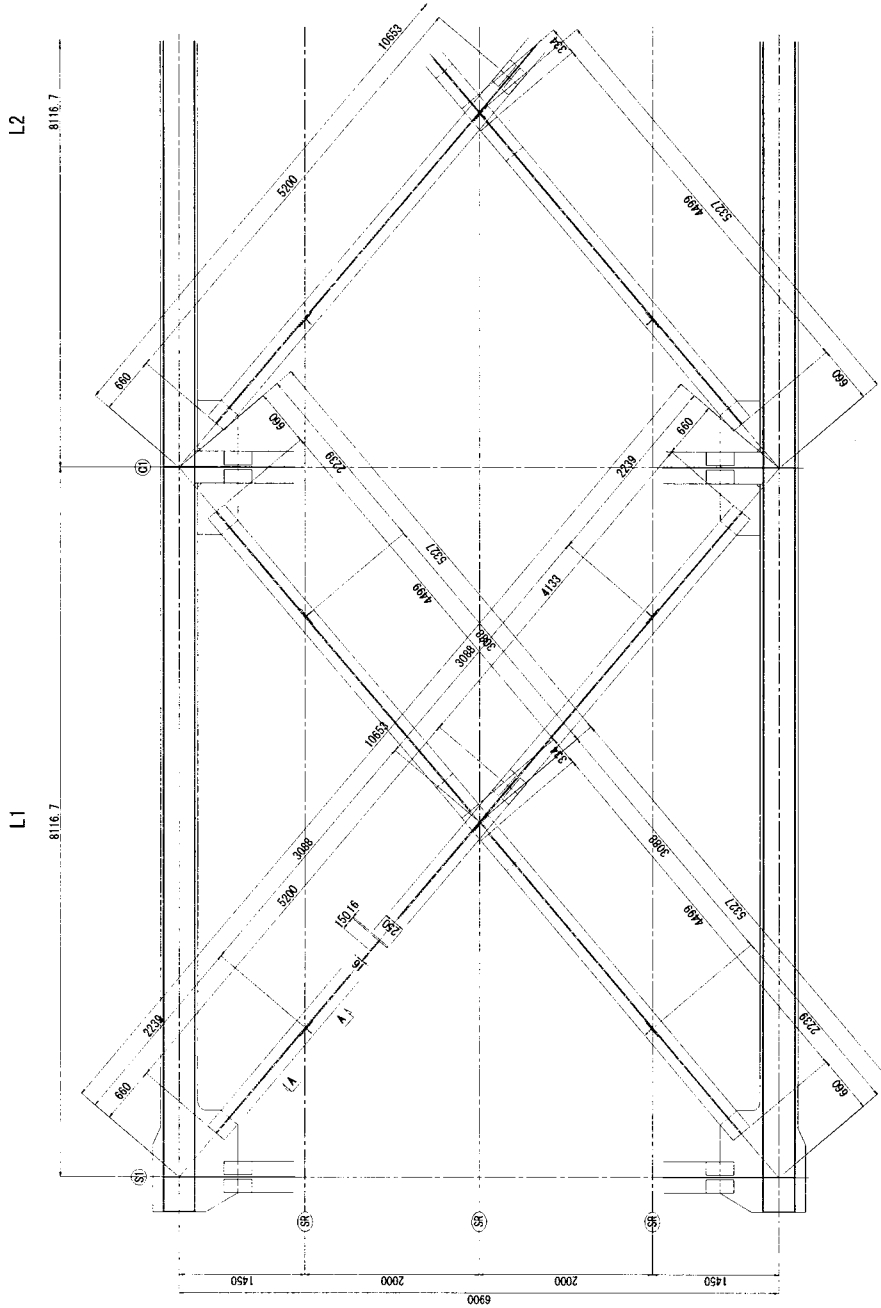
- NOTES:
- 1) Materials to be S1M400M unless otherwise noted.
 - 2) Field splices shall be connected by T C B (R22, S107H).
 - 3) Radius of seal top to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT FOR THE MINISTRY OF TRANSPORTATION	
PROJECT: REPAIR AND IMPROVEMENT OF HAI PHONG TO HANOI NATIONAL HIGHWAY	
CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.	
NAME	DESIGNED BY
SIGNATURE	CHECKED BY
DATE	APPROVED BY

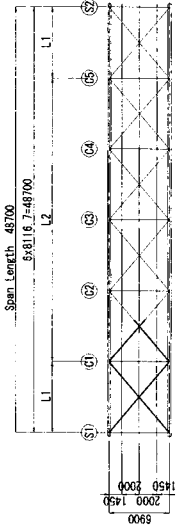
3-1 LOWER LATERAL BRACING

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
3-1	1/30	011	OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN
SCALE = 1/300



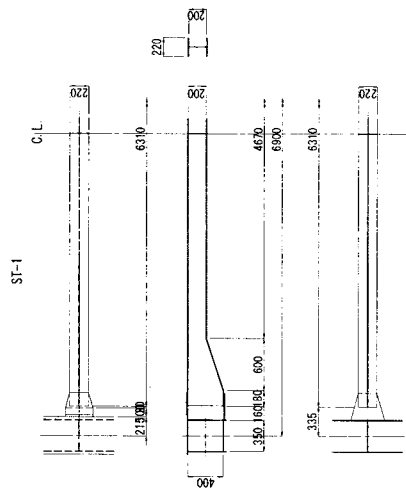
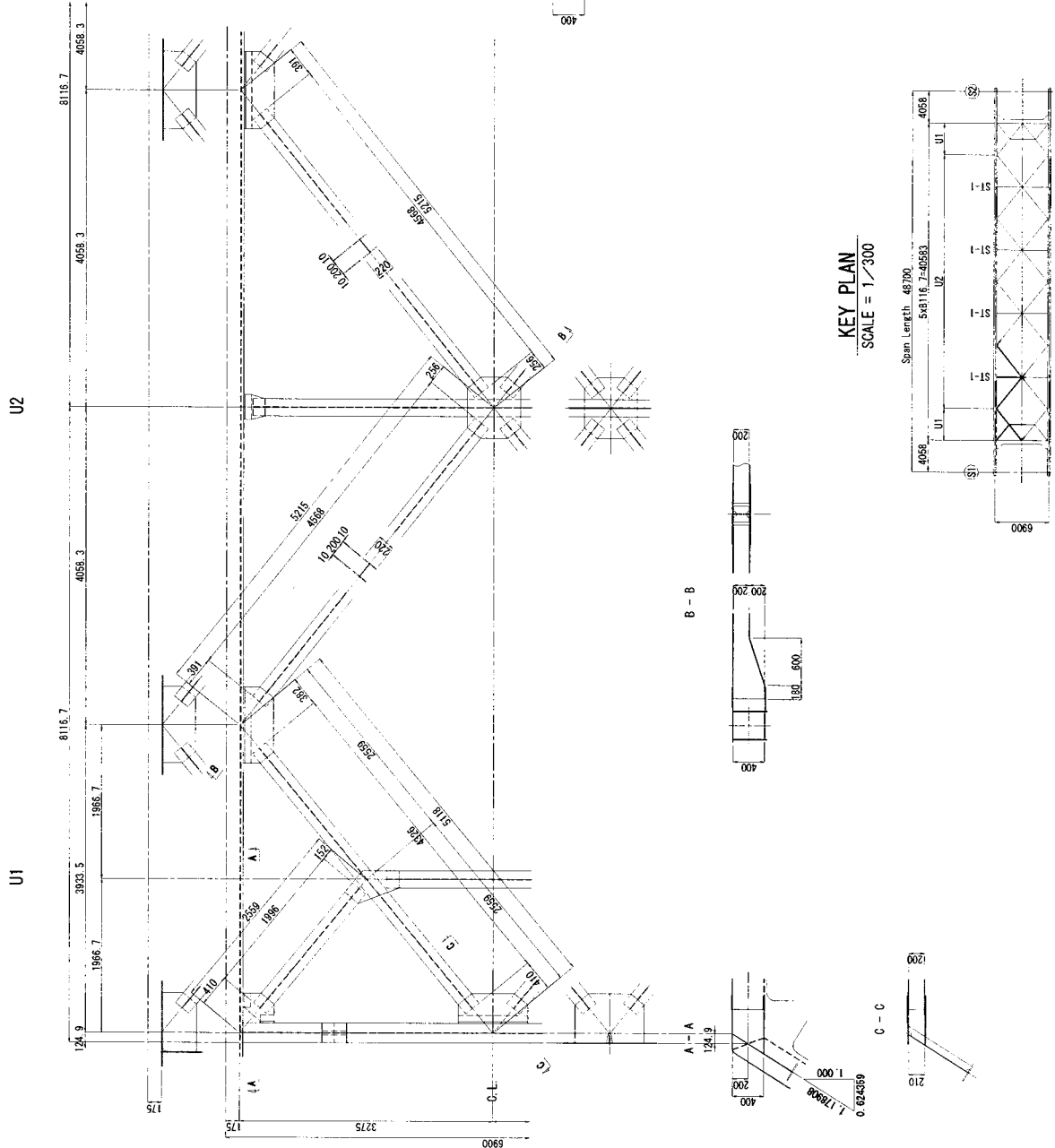
- NOTES:
- 1) Materials to be SM400M unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M22, S107M).
 - 3) Radius of scallops to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 11, MINISTRY OF TRANSPORT
 PROJECT: THE PROJECT FOR IMPROVEMENT OF ROAD SERVICES IN NORTHERN HIGHLANDS PROVINCES
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ APPROVED BY: _____
 CHECKED BY: _____
 DRAWN BY: _____
 DATE: _____

3-1 UPPER LATERAL BRACING

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
REVISION	1/29	CT-	OF
TITLE		3-1 UPPER LATERAL BRACING	
KEY NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN
 SCALE = 1/300

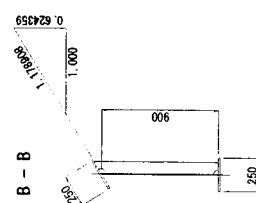
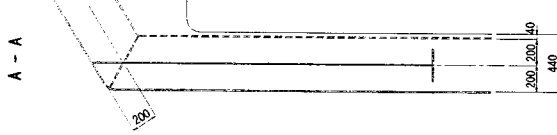
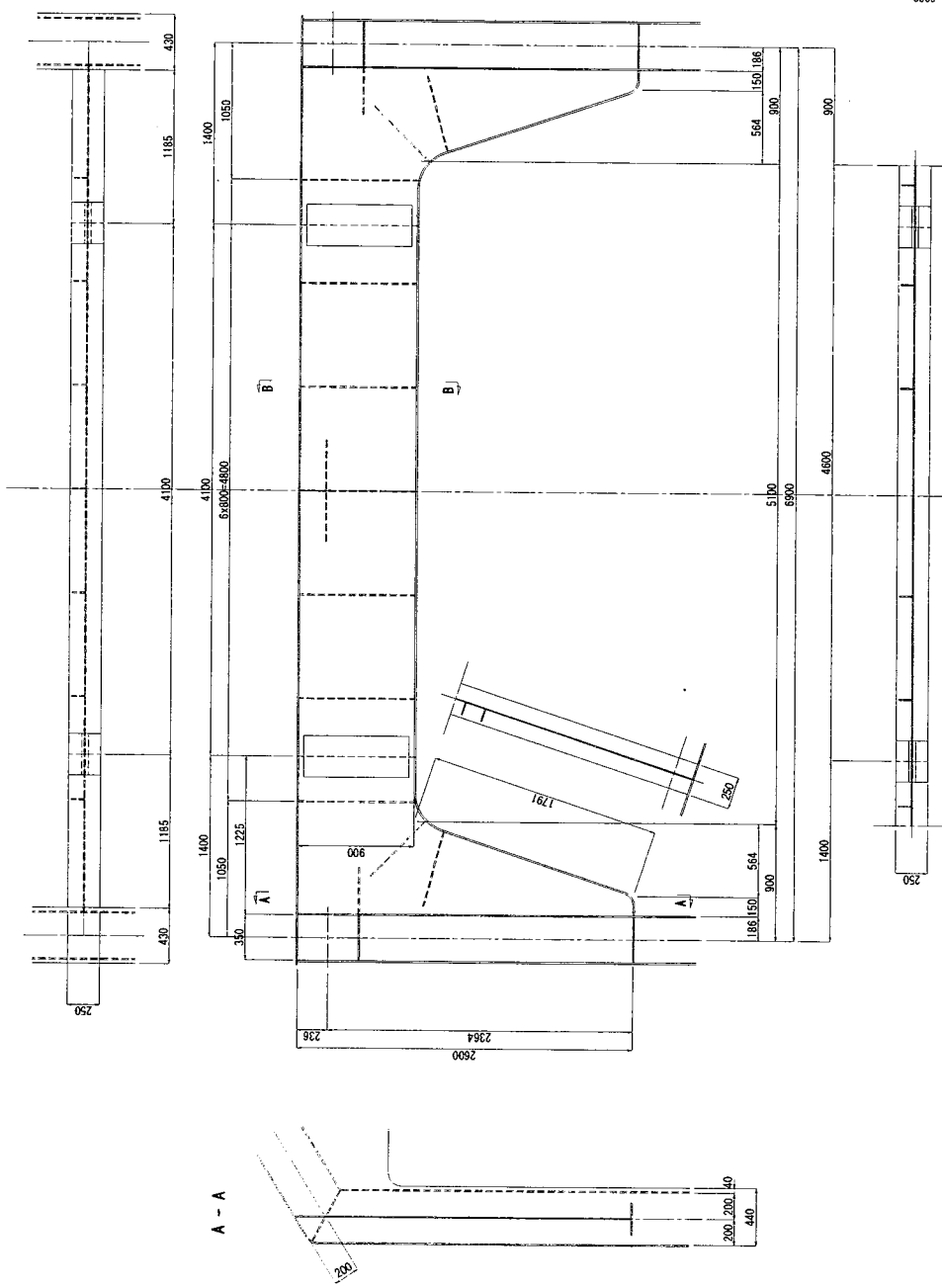
- NOTES:
- 1) Materials to be SM490BW unless otherwise noted.
 - 2) Field splices shall be connected by T C B (M22.510W).
 - 3) Radius of sea top to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM	
PROJECT MANAGEMENT UNIT NO. 13, MINISTRY OF TRANSPORT	
PROJECT FOR IMPROVEMENT OF ROAD BRIDGE IN URBAN ENGINEERING PROVINCES	
CONTRACTING: ORIENTAL CONCRETE WORKS CO., LTD	
DESIGNED BY / CHECKED BY: _____	APPROVED BY: _____
SIGNATURE: _____	DATE: _____

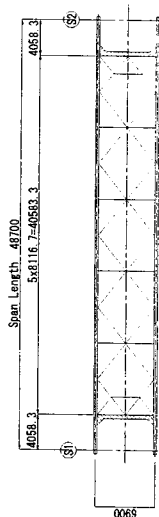
3-1 REINFORCEMENT OF PORTAL

SCALE = 1/20

SECTION	SCALE	DRAWING NO.	SHEET NO.
TITLE	1/20	3-1 REINFORCEMENT OF PORTAL	OF
REV. NO.	DATE	DESCRIPTION	SIGNATURE



KEY PLAN
SCALE = 1/300



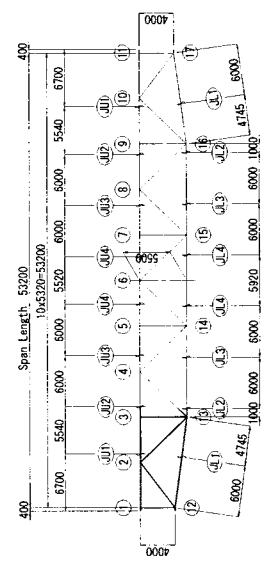
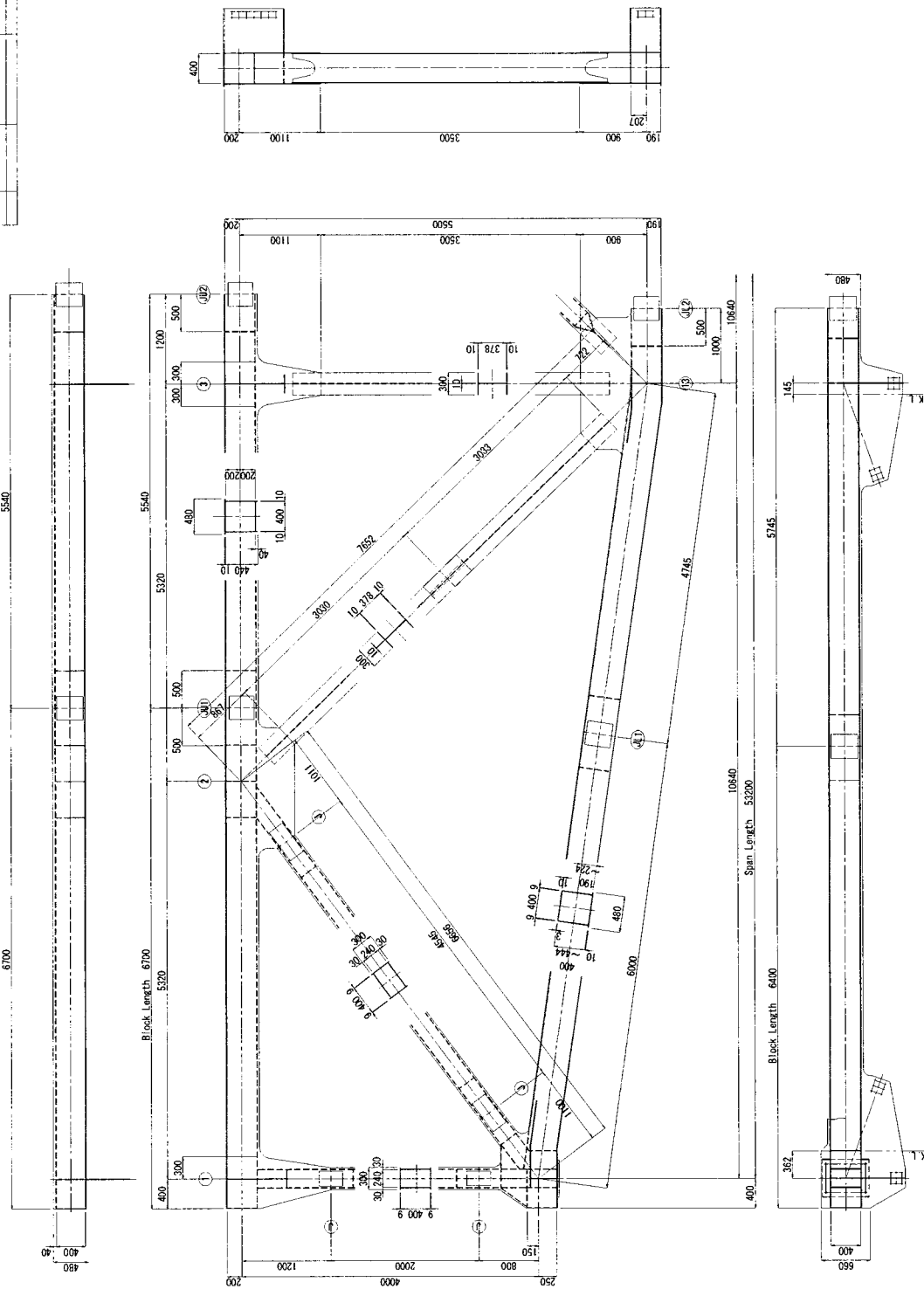
- NOTES:
- 1) Materials to be SM400M unless otherwise noted.
 - 2) Field splices shall be connected by T & B (R2Z.S10TW).
 - 3) Radius of seal top to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 15, MINISTRY OF TRANSPORT
 PROJECT: THE PLANET FOR IMPROVEMENT OF MAIN BRIDGE II BETWEEN BINH DUONG BRIDGES
 CONSULTANT: ORIGINAL CONSULTANTS CO., LTD
 CHECKED BY: _____ APPROVED BY: _____
 NAME: _____
 SIGNATURE: _____
 DATE: _____

3-2 MAIN GERDER - 1

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/30	CT-	OF
DRAWING TITLE		DESCRIPTION	SIGNATURE
REV. NO.	DATE		



KEY PLAN
 SCALE = 1/300

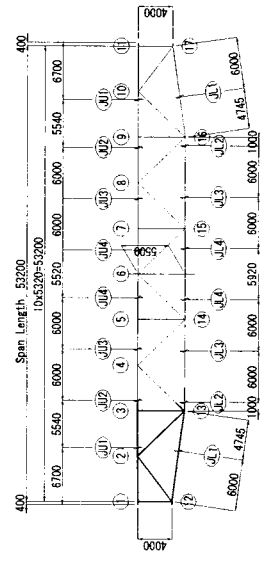
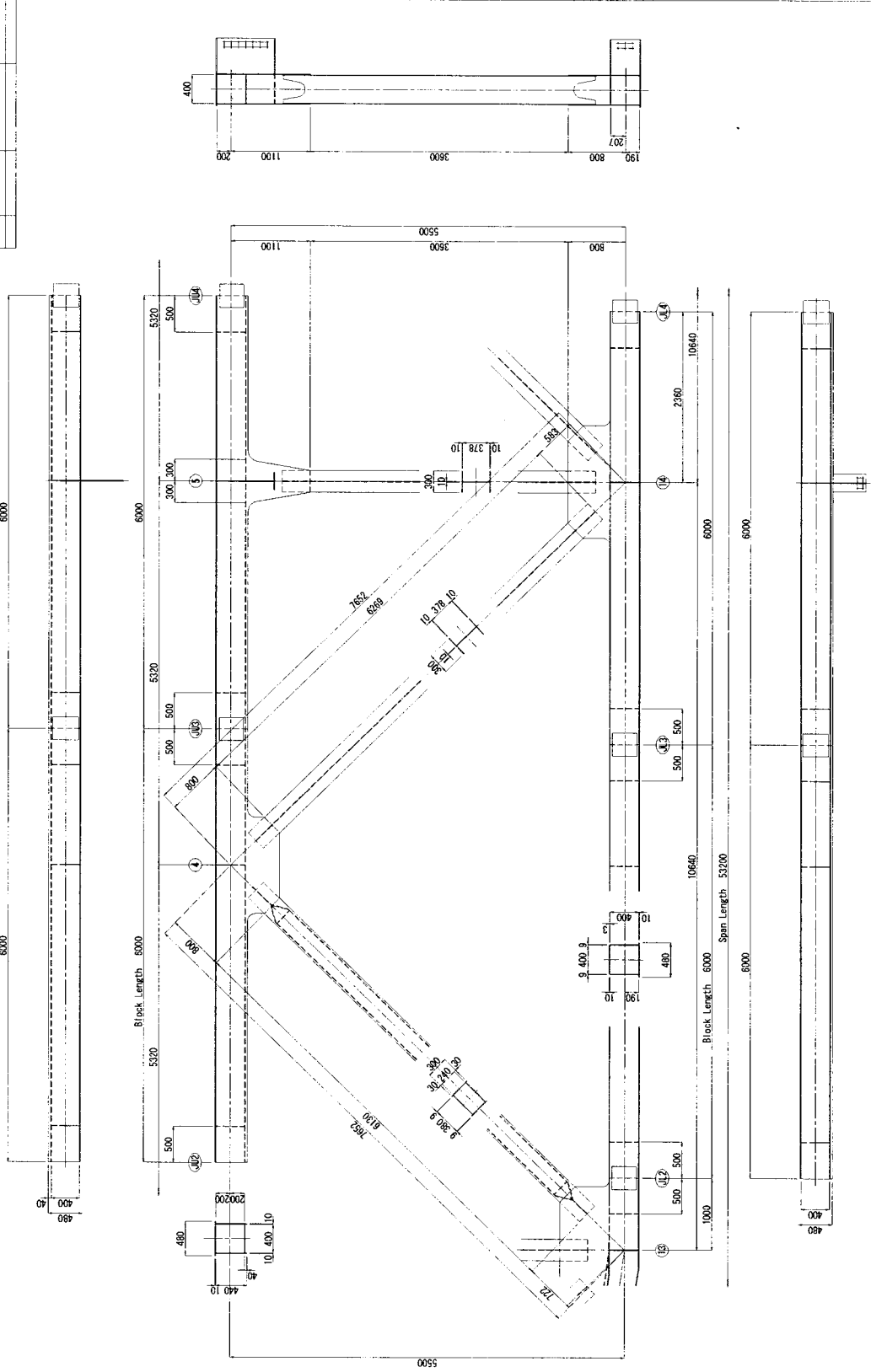
- NOTES:
- 1) Materials to be SMA400MM unless otherwise noted.
 - 2) Field splces shall be connected by T.C.B. (WZT.S10TW)
 - 3) Radius of scall top to be 35mm unless noted

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT: THE PROJECT FOR IMPROVING OF MAIN BRIDGE AT WUONG BINH DAM POWERED
 CONSULTING: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 NAME: _____ DATE: _____

3-2 MAIN GERDER - 2

SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/30	07-	07
DRAWING TITLE			
REV. NO.	DATE	DESCRIPTION	REVISION



KEY PLAN
 SCALE = 1/300

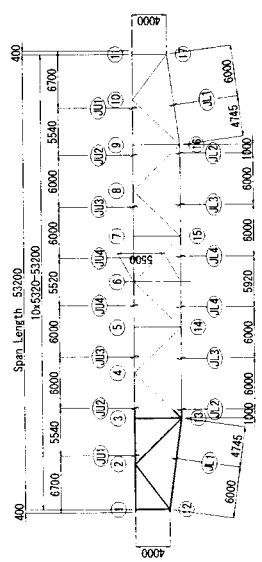
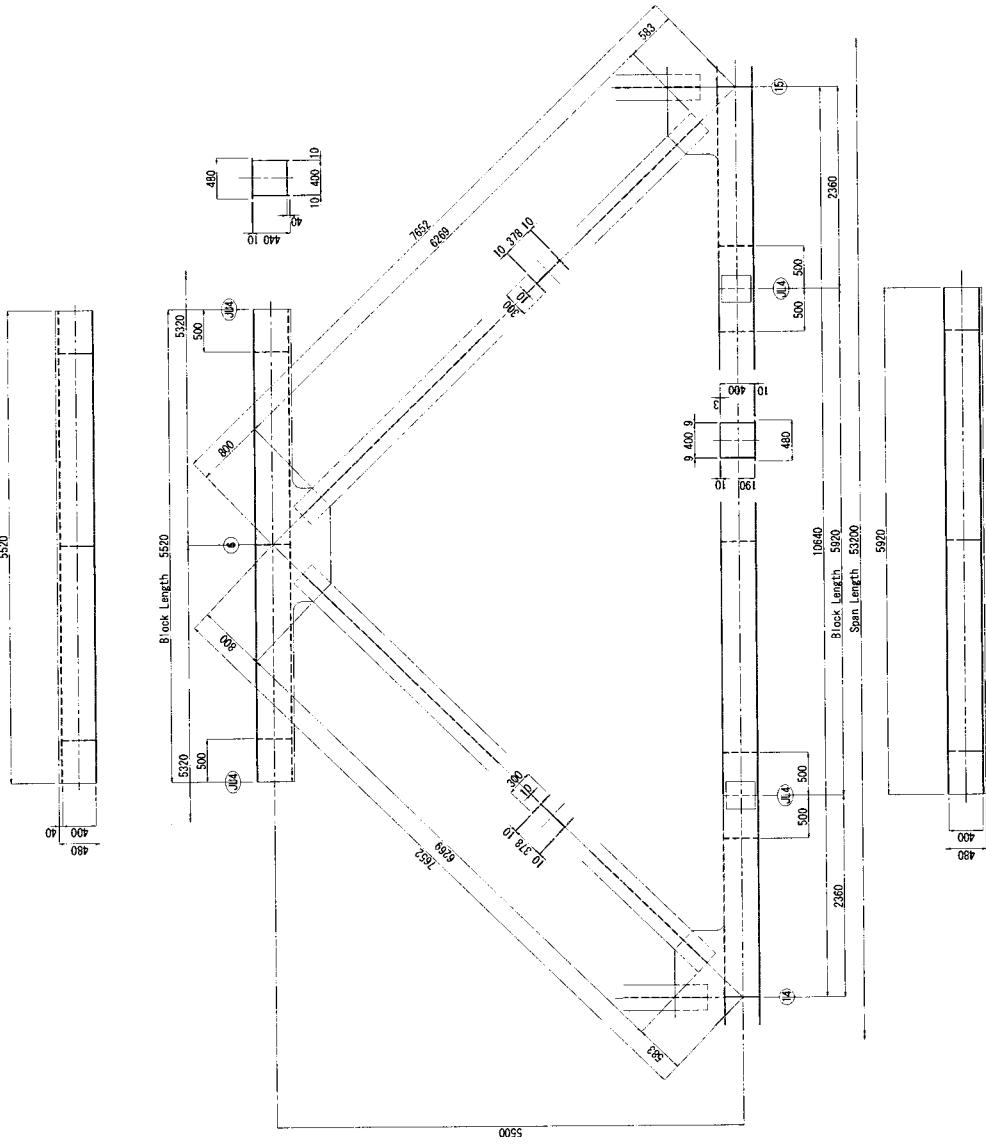
- NOTES:
- 1) Materials to be SWAGDOW unless others are noted
 - 2) Field splices shall be connected by T & B (M21, S107N)
 - 3) Radius of scallops to be 35mm unless noted

THE GOVERNMENT OF HONG KONG
 PROJECT: THE PROPOSED 3-2 MAIN GERDER - 3
 CONSULTANT: HONGKONG CONSULTANTS CO., LTD.
 SECTION: 3-2 MAIN GERDER - 3
 NAME: _____ APPROVED BY: _____
 SIGNATURE: _____ DATE: _____

3-2 MAIN GERDER - 3

SCALE = 1/30

REGION: _____ SCALE: 1/30 DRAWING NO: _____ SHEET NO: _____
 CT: _____
 DRAWING NO: 3-2 MAIN GERDER - 3
 REV. NO. DATE DESCRIPTION SIGNATURE



KEY PLAN
 SCALE = 1/300

- NOTES:
- 1) Materials to be SMA400MM unless otherwise noted
 - 2) Field splices shall be connected by T & B (M2, S10M)
 - 3) Radius of scallop to be 35mm unless noted.

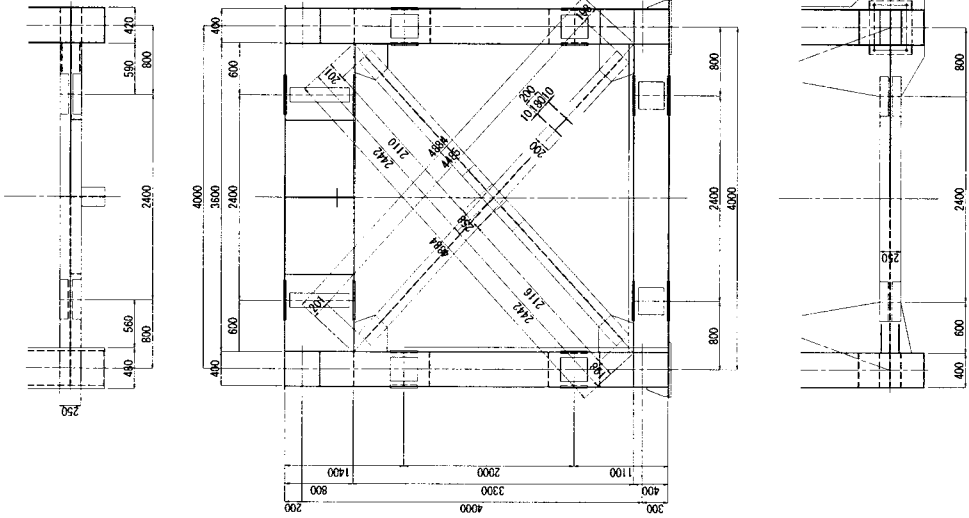
THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGEMENT UNIT NO. 18, MINISTRY OF TRANSPORT
 PROJECT: REPAIR FOR IMPROVING OF ROAD BRIDGE II SECTION (HANGUANG PHUONG)
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD
 DESIGNED BY: _____ APPROVED BY: _____
 CHECKED BY: _____
 NAME: _____
 DATE: _____

3-2 CROSS BEAM - LITTLE STRUCTURE

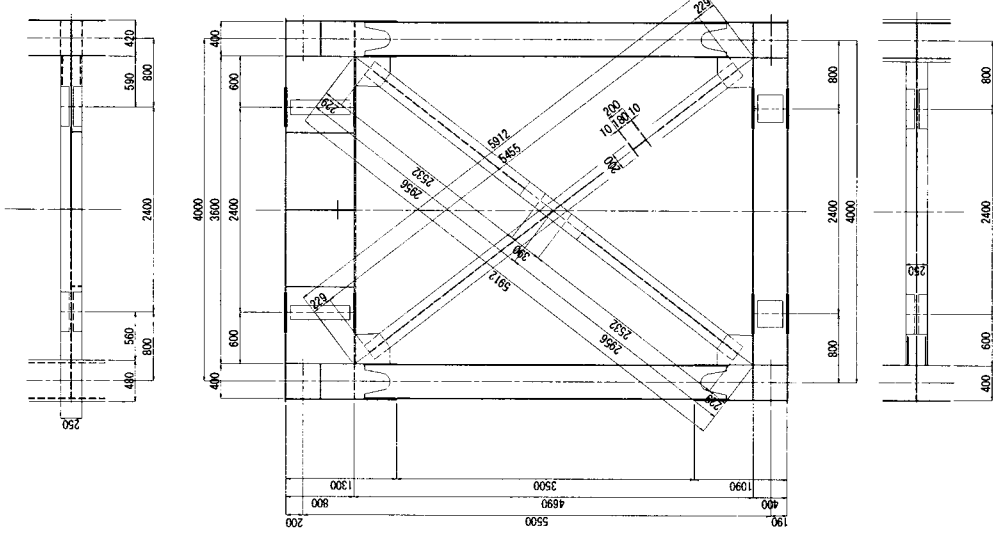
SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/30	C1-	OF
DRAWING TITLE		3-2 CROSS BEAM - LITTLE STRUCTURE	
REV. NO.	DATE	DESCRIPTION	SIGNATURE

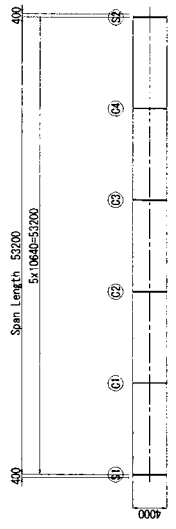
(S1) - (S2)



(C1) - (C4)



KEY PLAN
 SCALE = 1/300



- NOTES:
- 1) Materials to be SMA400M unless otherwise noted
 - 2) Field splices shall be connected by T.C.B. (M22, S10TW)
 - 3) Radius of steel top to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT MANAGER'S UNIT NO. 14, MINISTRY OF TRANSPORT
 PROJECT: THE PROJECT FOR INVESTMENT OF RAIL LINES IN HANOI AND HAI PHONG PROVINCES
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD.
 DESIGNED BY: _____ APPROVED BY: _____
 CHECKED BY: _____
 NAME: _____
 SIGNATURE: _____
 DATE: _____

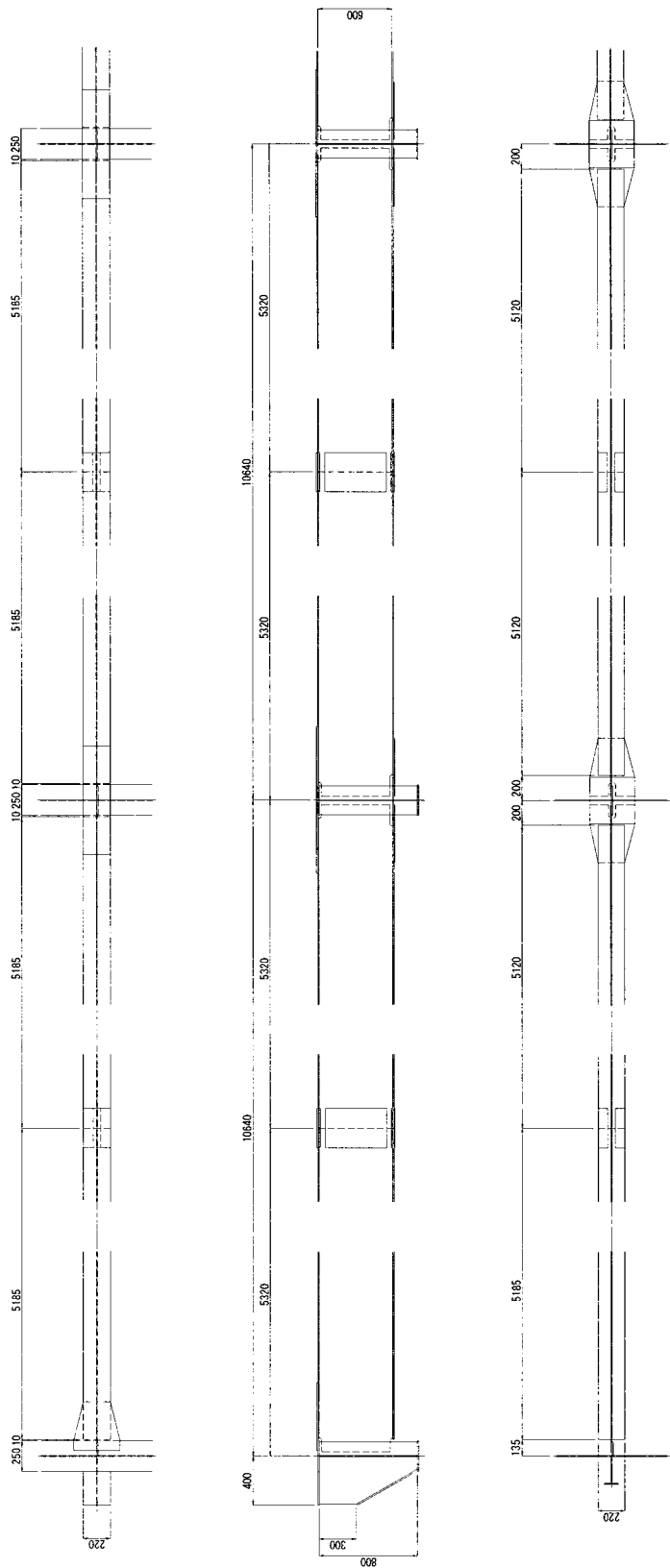
3-2 FLOOR BEAM

SCALE = 1/20

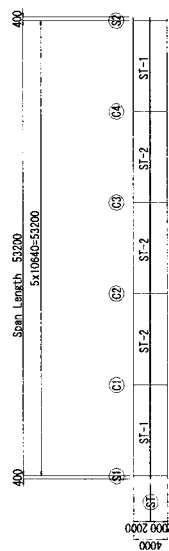
SECTION	SCALE	DRAWING NO.	SHEET NO.
	1/20	3-2	OF
DRAWING TITLE		3-2 FLOOR BEAM	
REV. NO.	DATE	DESCRIPTION	SIGNATURE

ST-1

ST-2



KEY PLAN
 SCALE = 1/300



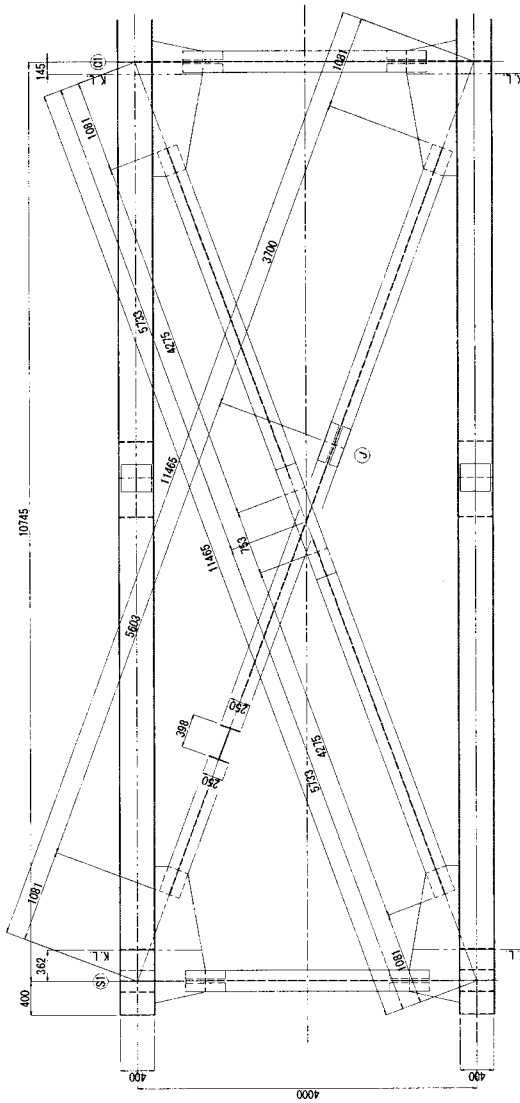
- NOTES:
- 1) Materials to be SMA400W unless otherwise noted.
 - 2) Field splices shall be connected by T.C.B. (M22, S101W).
 - 3) Radius of seal top to be 35mm unless noted.

THE GOVERNMENT OF SOCIALIST REPUBLIC OF VIETNAM
 PROJECT'S MANAGEMENT UNIT NO. 14, MINISTRY OF TRANSPORT
 PROJECT: THE FACTORY FOR IMPROVING OF RAIL SERVICE IN HETEROGENEOUS PORTHES
 CONSULTANT: ORIENTAL CONSULTANTS CO., LTD
 DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
 NAME: _____
 SIGNATURE: _____
 DATE: _____

3-2 LATERAL BRACING

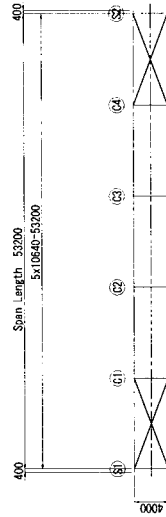
SCALE = 1/30

SECTION	SCALE	DRAWING NO.	SHEET NO.
1/750			OF
DRAWING TITLE	3-2 LATERAL BRACING		
AUTHOR	DATE	DESCRIPTION	REVISION



KEY PLAN

SCALE = 1/300



- NOTES:
- 1) Materials to be SHADDOM unless otherwise noted.
 - 2) Field splices shall be connected by T.C.B. (M27.S10TW).
 - 3) Radius of scallops to be 35mm unless noted.