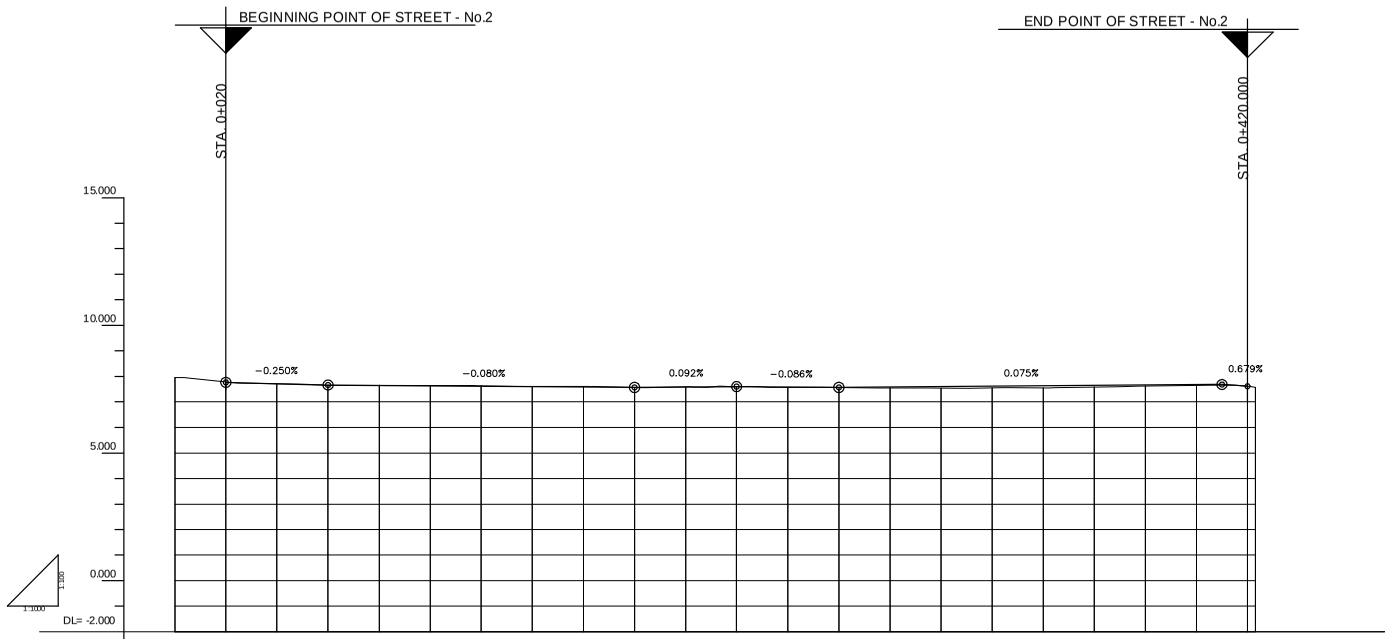
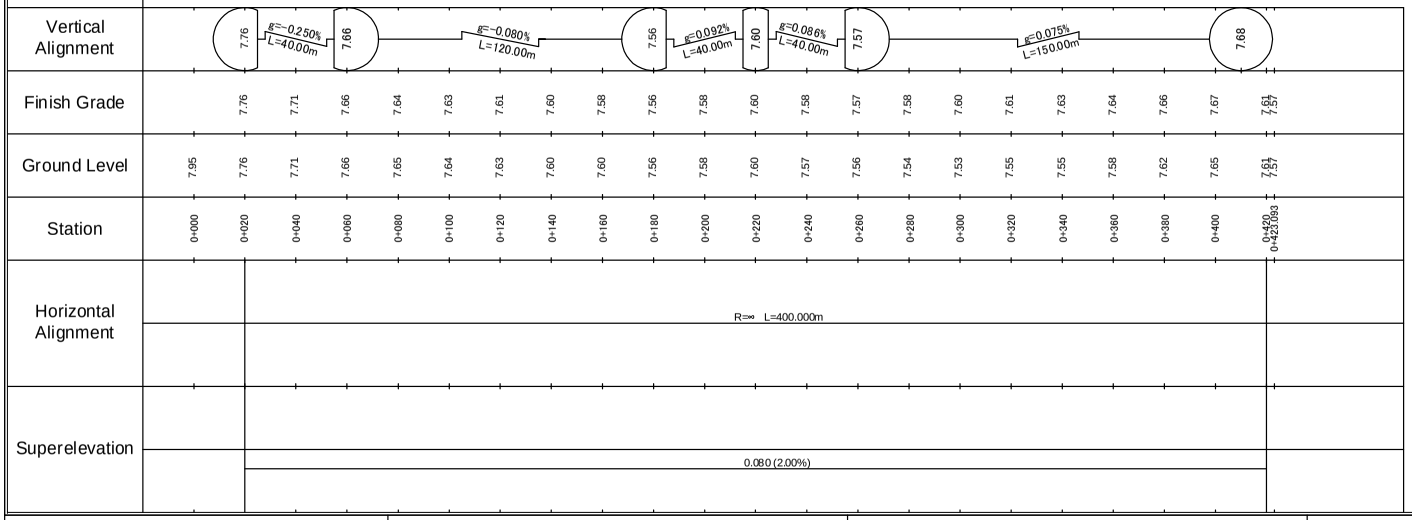
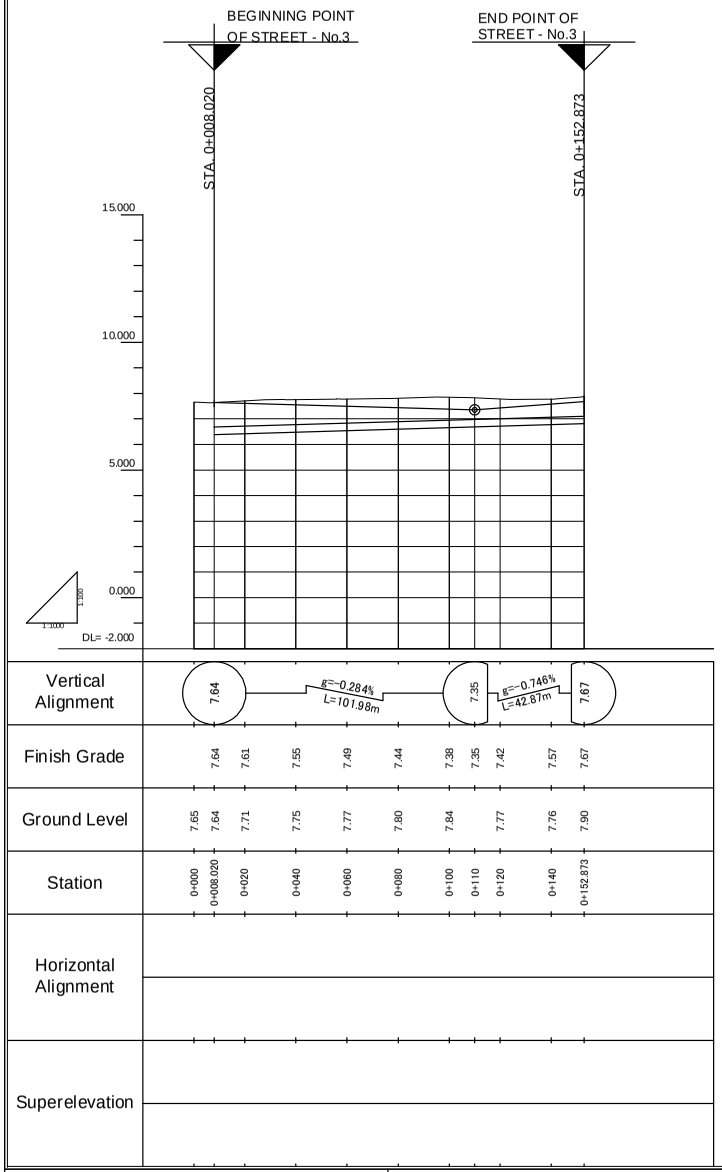
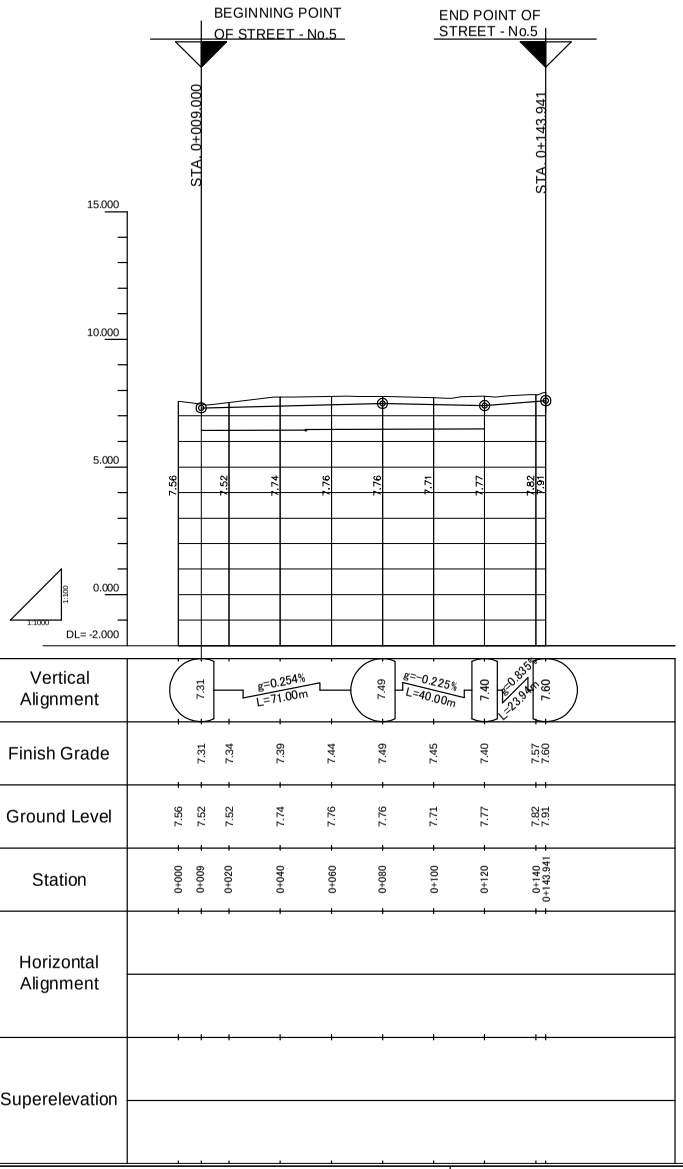


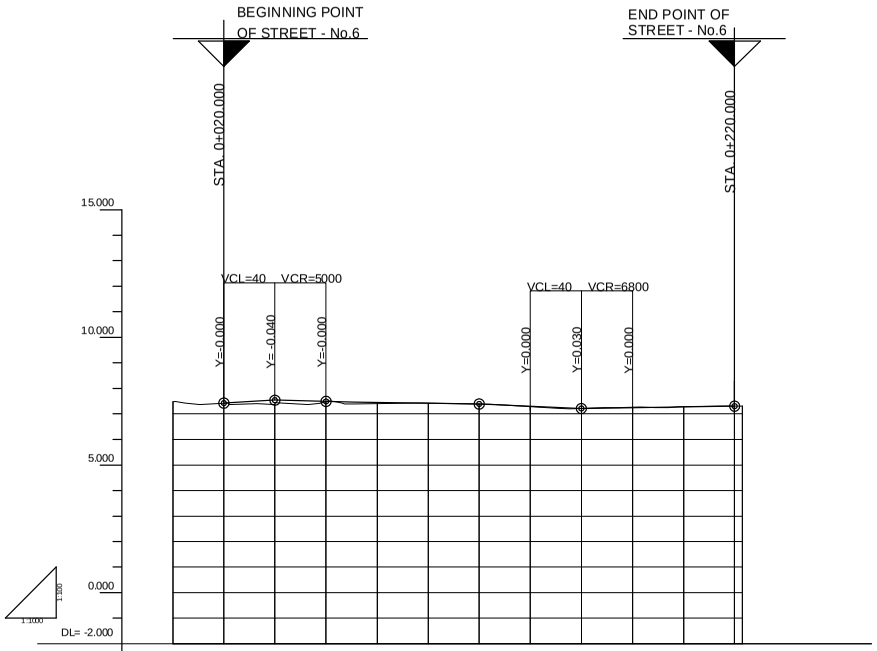


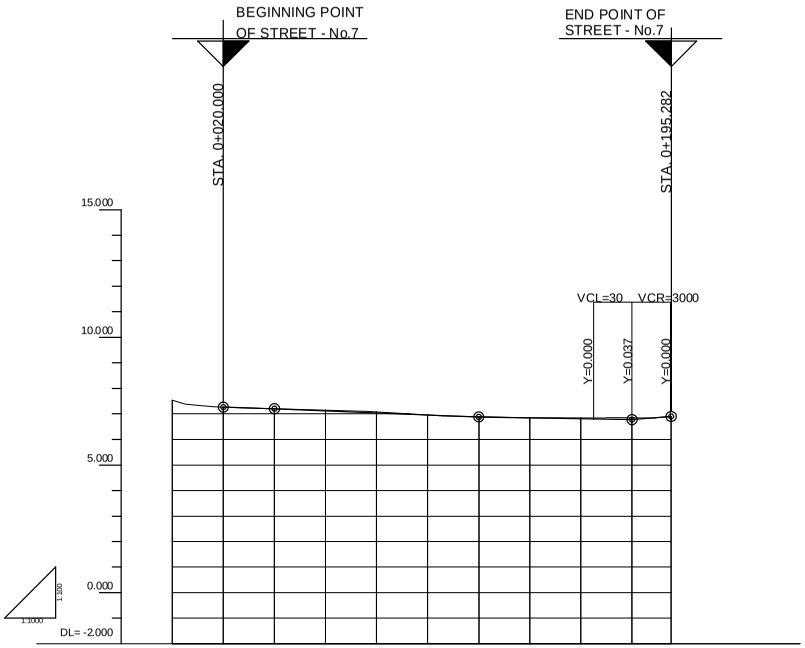
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No. 2	SCALE H = 1/2000, V = 1/200	Drawing No. PR-06 Sheet No. XX





MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No. 3, STREET No. 5	SCALE H = 1/2000, V = 1/200	Drawing No. PR-07 Sheet No. XX

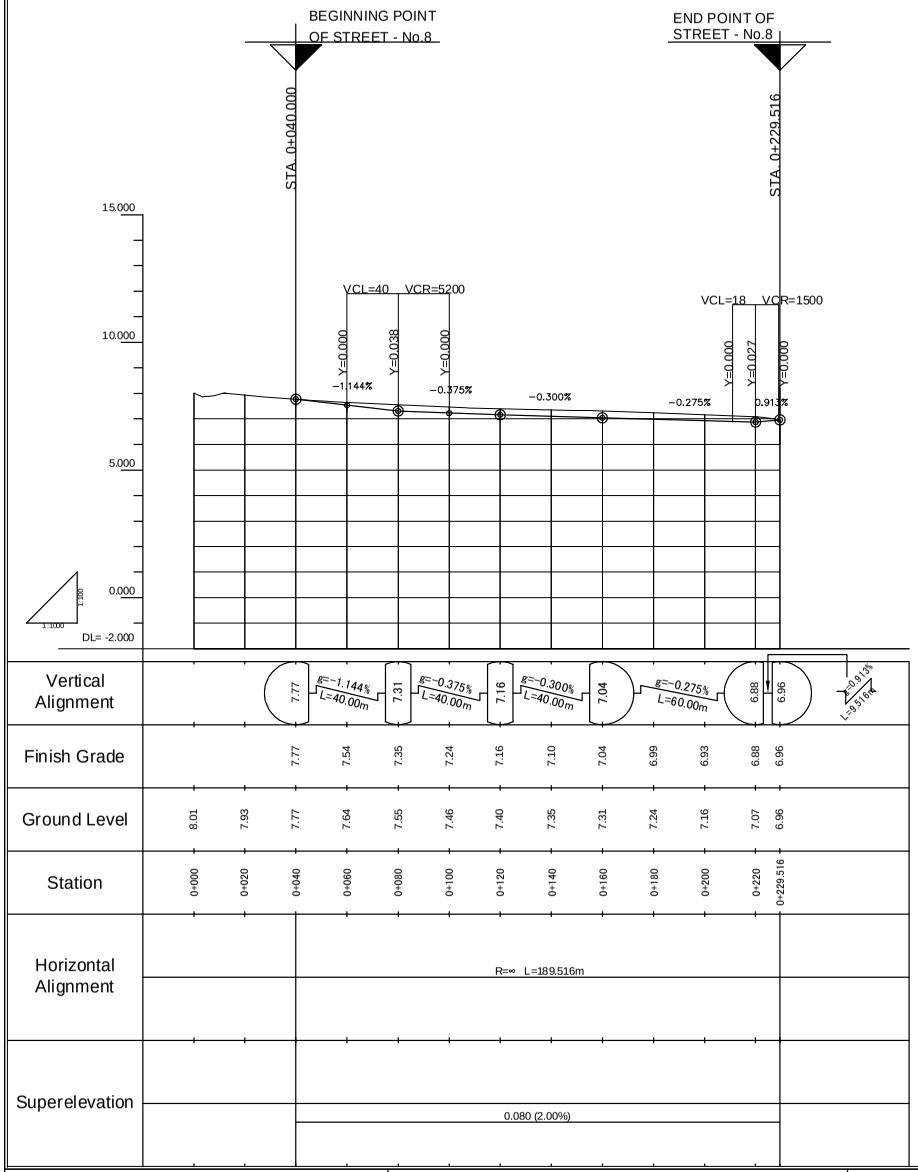




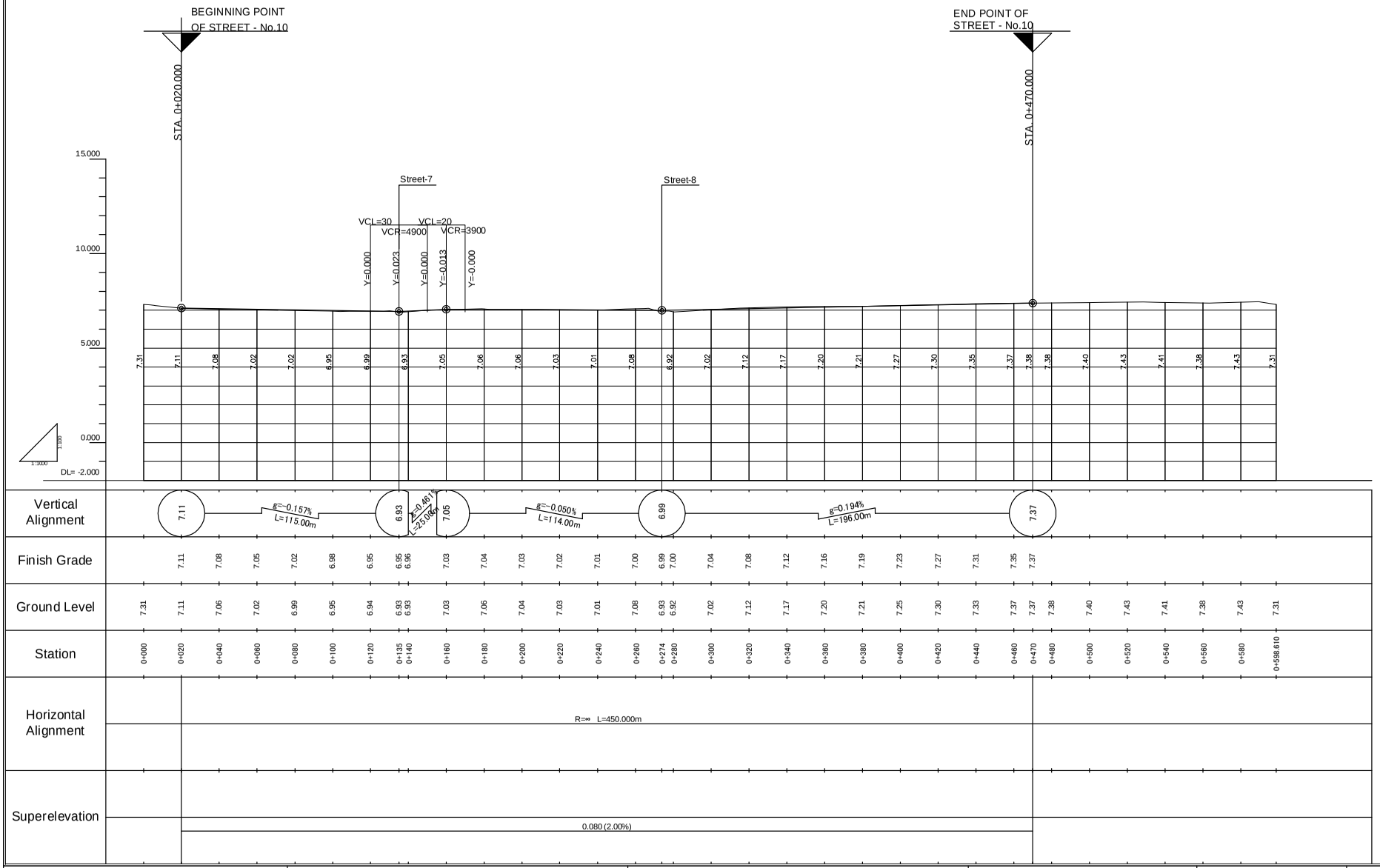
Vertical Alignment	7.42	i=0.565% L=20.00m	7.53	i=-0.25% L=20.00m	7.46	i=-0.165% L=60.00m	7.38	i=-0.436% L=40.00m	7.20	i=0.155% L=60.00m	7.30	
Finish Grade	7.42	7.49	7.49	7.44	7.41	7.38	7.29	7.23	7.24	7.27	7.30	
Ground Level	7.47	7.42	7.38	7.49	7.40	7.41	7.38	7.28	7.22	7.26	7.28	7.30 7.31
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220 0+220.001
Horizontal Alignment	R=∞ L=200.000m											
Superelevation	0.080 (2.00%)											

Vertical Alignment	7.26	i=-0.31% L=20.00m	7.20	i=-0.400% L=80.00m	6.88	i=-0.175% L=60.00m	6.77	6.90	i=0.810% L=15.282m		
Finish Grade	7.26	7.20	7.12	7.04	6.96	6.88	6.84	6.81	6.77	6.90	
Ground Level	7.53	7.26	7.20	7.14	7.08	6.96	6.90	6.85	6.84	6.85	6.90
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+195.282
Horizontal Alignment	R=∞ L=200.000m										
Superelevation	0.080 (2.00%)										

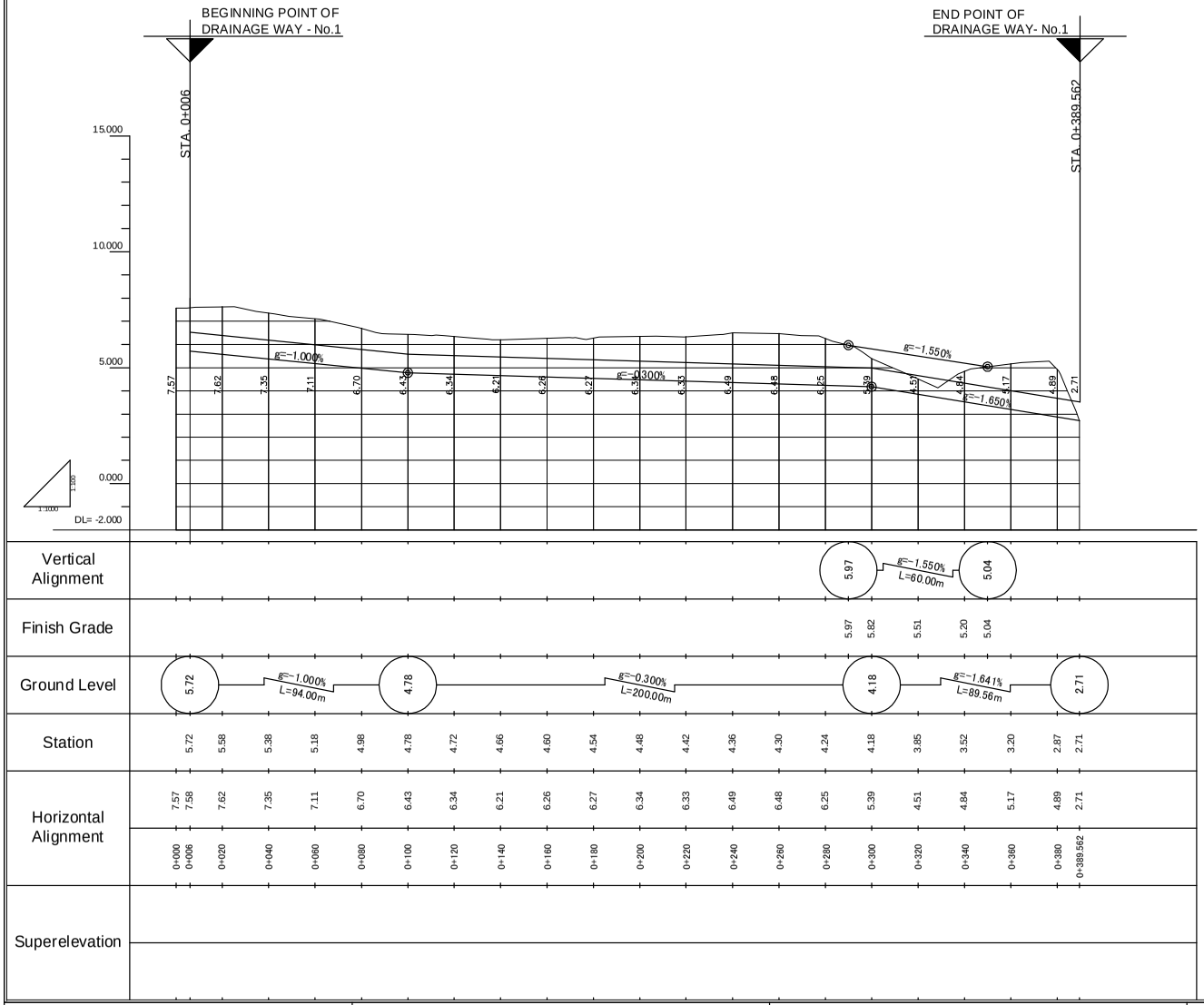
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No. 6, STREET No. 7	SCALE H = 1/2000, V = 1/200	Drawing No. PR-08 Sheet No. XX



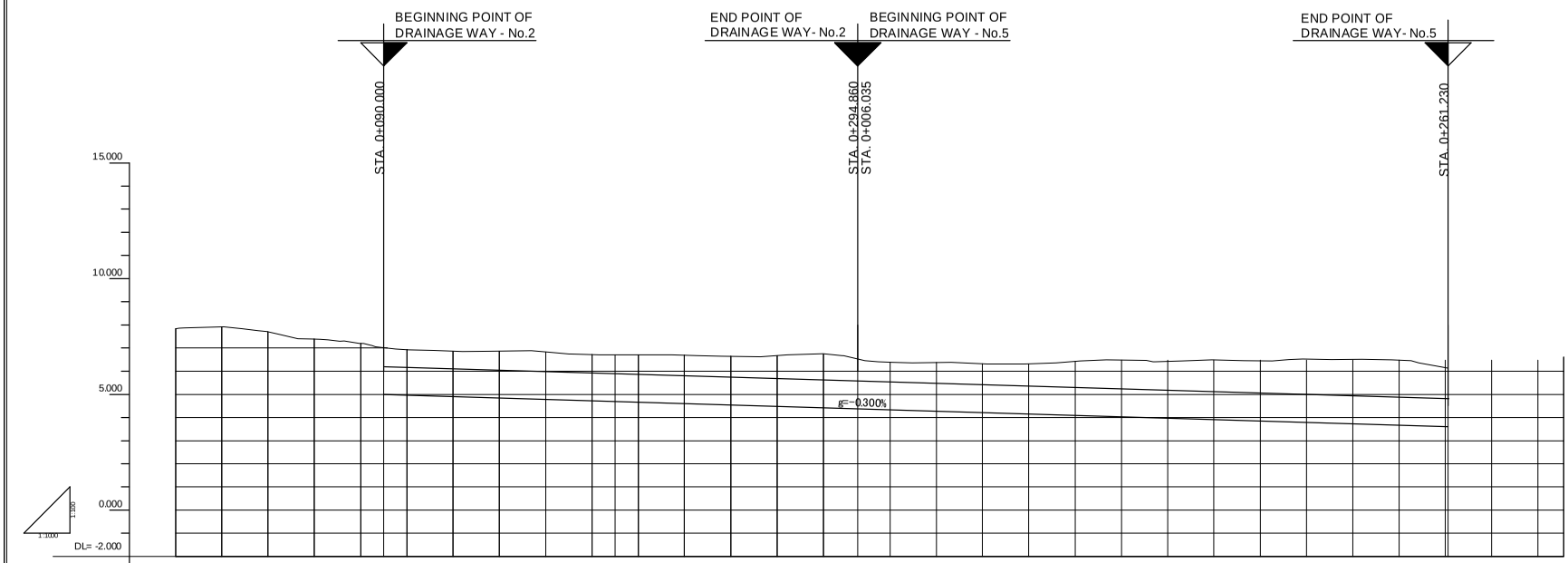
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No.8	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-09
					Sheet No.	XX



MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No.10	SCALE H = 1/2000, V = 1/200	Drawing No. PR-10 Sheet No. XX

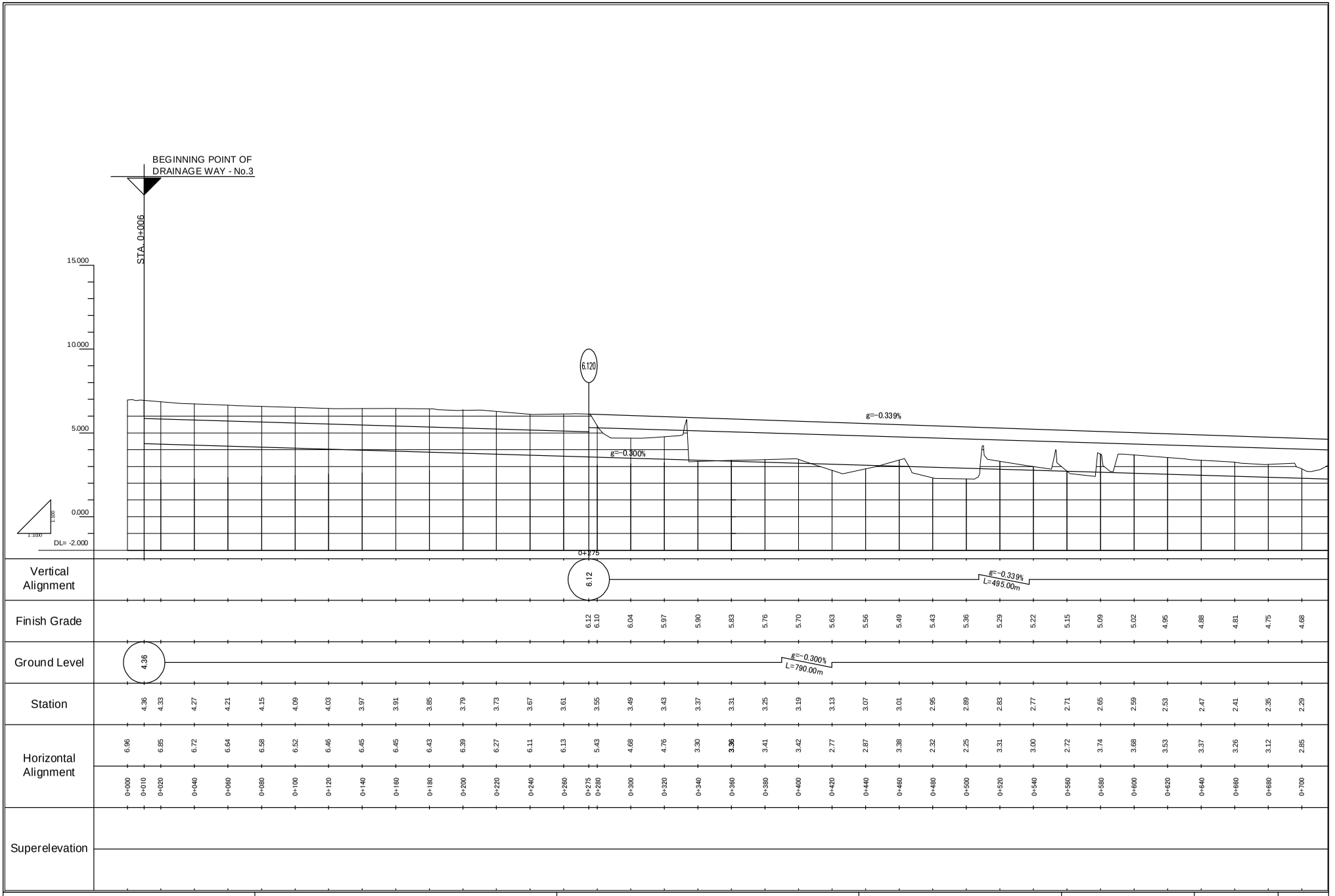


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 1	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-11
					Sheet No.	XX

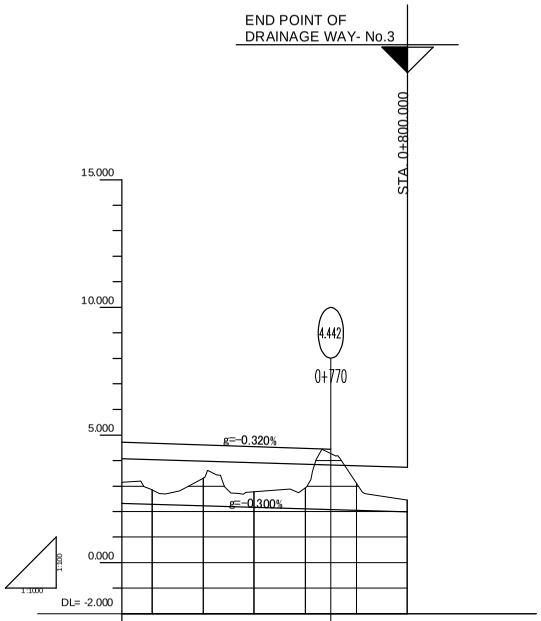


Vertical Alignment	
Finish Grade	
Ground Level	4.99 — i=-0.300% L=100.00m — 4.69 — i=-0.300% L=104.86m — 4.375 — i=-0.300% L=133.965m — 3.973 — i=-0.300% L=121.23m — 3.610
Station	4.99 4.96 4.90 4.84 4.78 4.72 4.69 4.66 4.60 4.54 4.48 4.42 4.38 4.33 4.27 4.21 4.15 4.09 4.03 3.97 3.91 3.85 3.79 3.73 3.67 3.61 3.61
Horizontal Alignment	7.83 7.92 7.69 7.38 7.19 6.93 6.86 6.86 6.83 6.72 6.71 6.69 6.64 6.67 6.75 6.38 6.37 6.32 6.31 6.42 6.48 6.43 6.48 6.45 6.53 6.51 6.47 6.15 6.04
	0+000 0+020 0+040 0+060 0+080 0+090 0+100 0+120 0+140 0+160 0+180 0+190 0+200 0+220 0+240 0+260 0+280 0+294.860 0+006.035 0+020 0+040 0+060 0+080 0+100 0+120 0+140 0+160 0+180 0+200 0+220 0+240 0+260 0+261.230 0+280
Superelevation	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 2, No. 5	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-12
					Sheet No.	XX

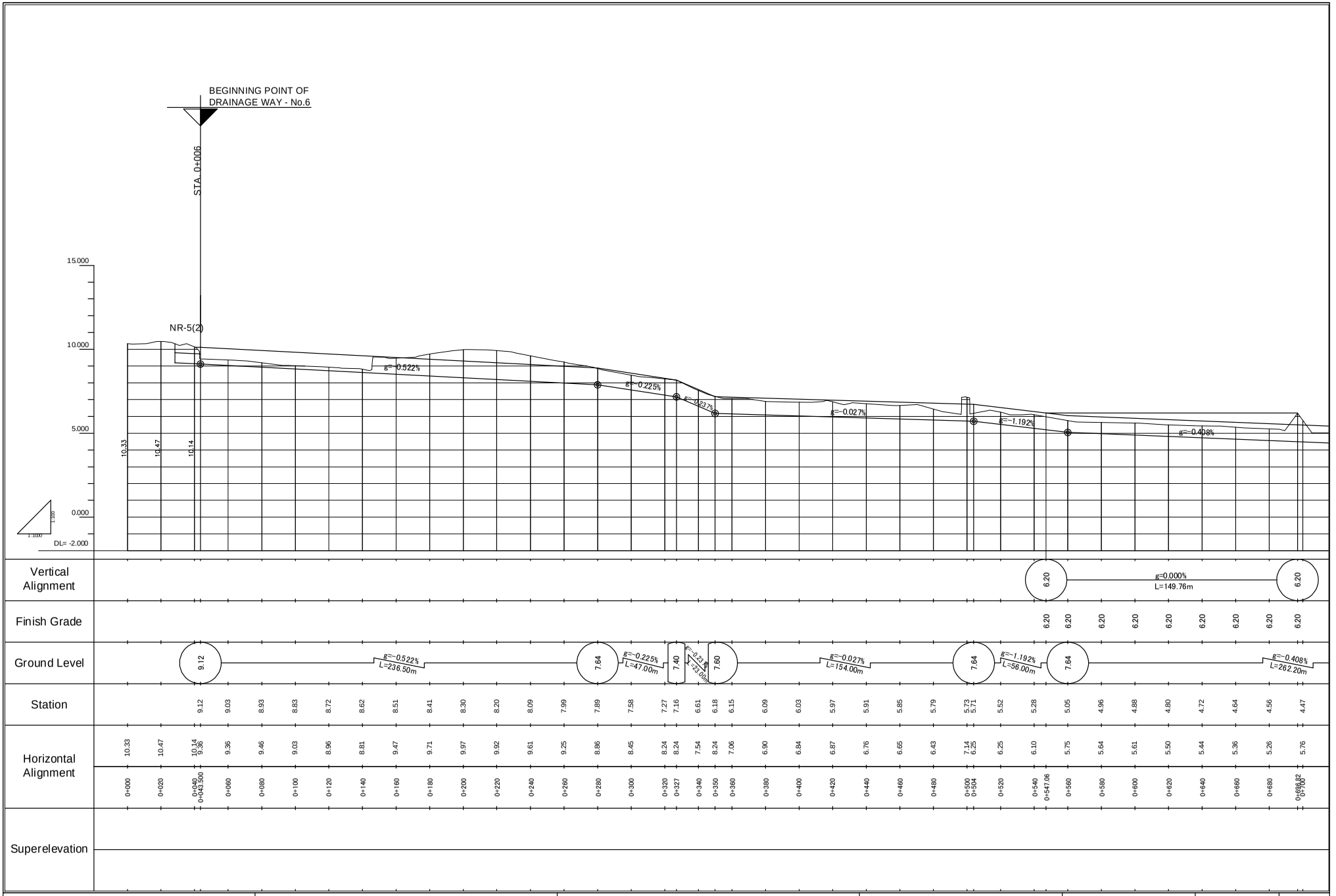


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 3 STA.0+000 - STA.0+700	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-13
					Sheet No.	XX

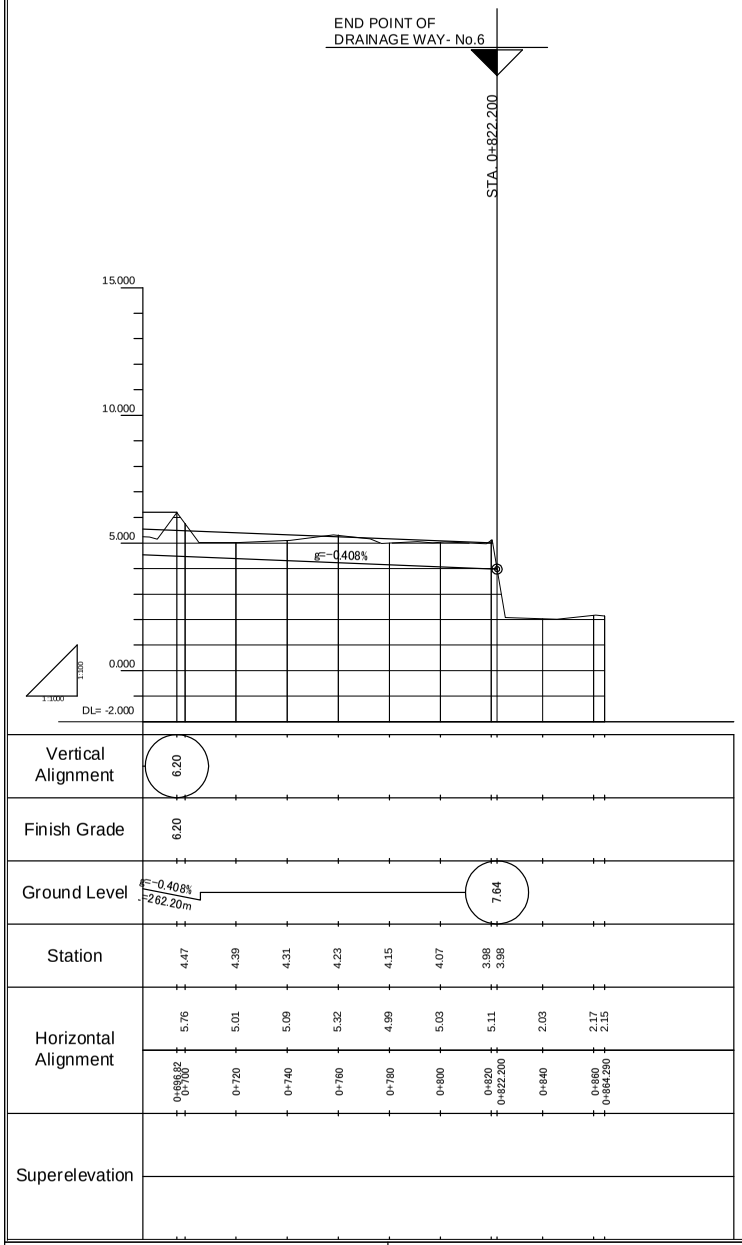


Vertical Alignment					4.44							
Finish Grade	4.68	4.61	4.54	4.48	4.44							
Ground Level										1.99		
Station	2.29	2.23	2.17	2.11		2.05				1.99		
Horizontal Alignment	2.85	3.31	2.78	2.93		3.11				2.46		
	0+700	0+720	0+740	0+760	0+770	0+780				0+800		
Superelevation												

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 3 STA.0+700 - STA.0+800	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-14
					Sheet No.	XX

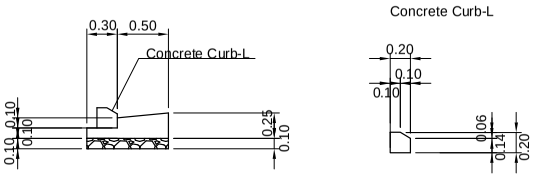


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 6 STA.0+000 - STA.0+700	SCALE H = 1/2000, V = 1/200	Drawing No. PR-15 Sheet No. XX

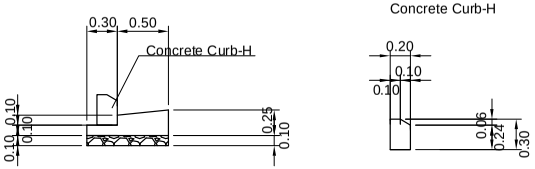


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 6 STA.0+700 - STA.0+822.200	SCALE H = 1/2000, V = 1/200	Drawing No. Sheet No.	PR-16 XX

CG(H200)

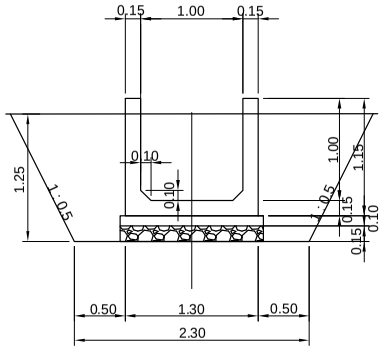


CG(H300)



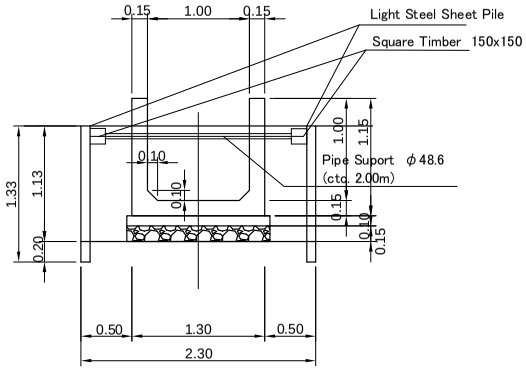
Ww-U(R)1000x1000

Av. Excavation Depth
1.25m

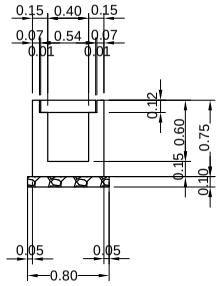


Ww-U(R)S1000x1000

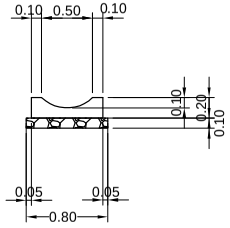
Av. Excavation Depth
1.33m

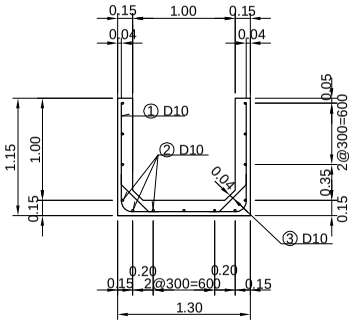


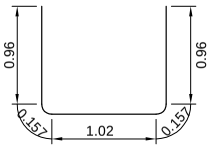
UD(C)-400x600



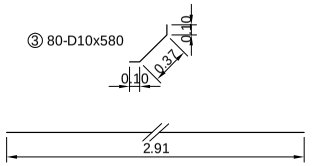
RG-500x100







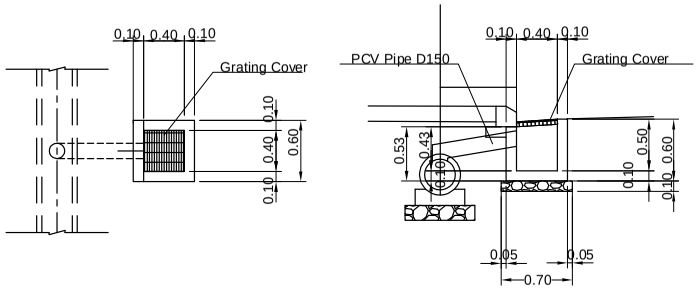
① 40-D10x3.260



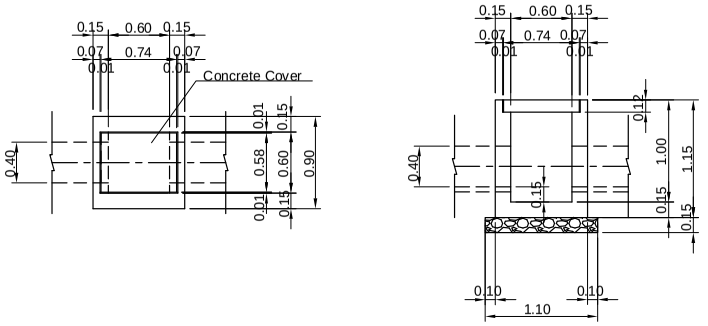
② 13-D10x10.000

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : KERB STONE and DRAINAGE STRUCTURE (1) LINE DITCH	SCALE 1/50	Drawing No.	DR-1
					Sheet No.	xx

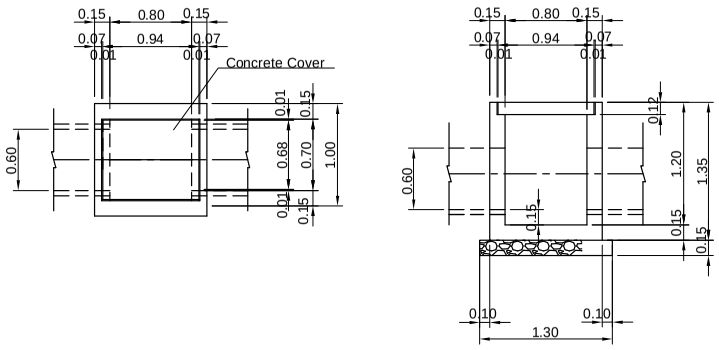
CB(G)400x400x500



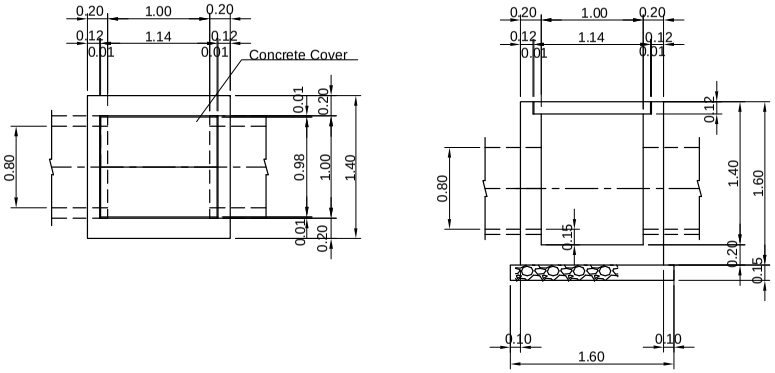
CB(C)600x600x1000



CB(C)800x800x1200

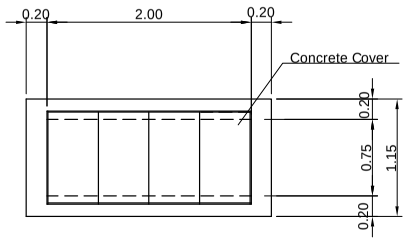


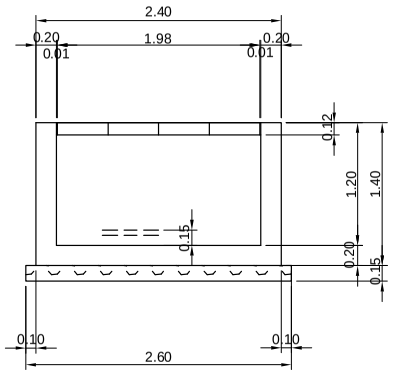
CB(C)1000x1000x1400



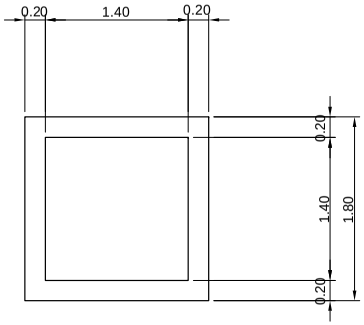
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (2) CATCH BASIN	SCALE 1/50	Drawing No. Sheet No.	DR-2 106

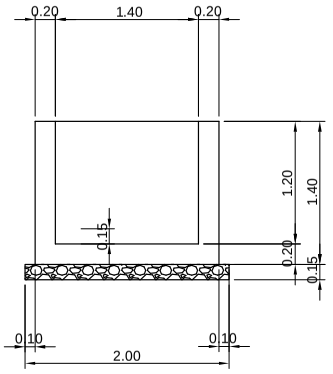
CB(C)2000x750x1200





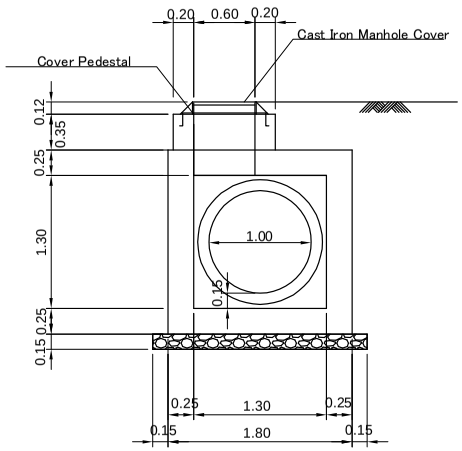
CB(C)1400x1400x1200

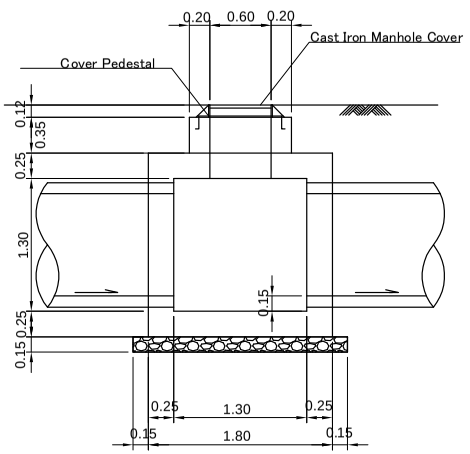




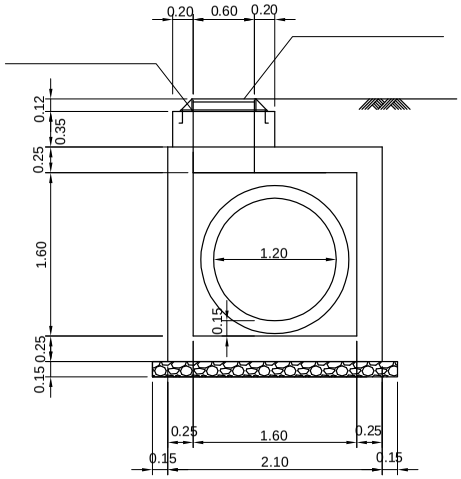
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (3) CATCH BASIN	SCALE 1/50	Drawing No. Sheet No.	DR-3 xx

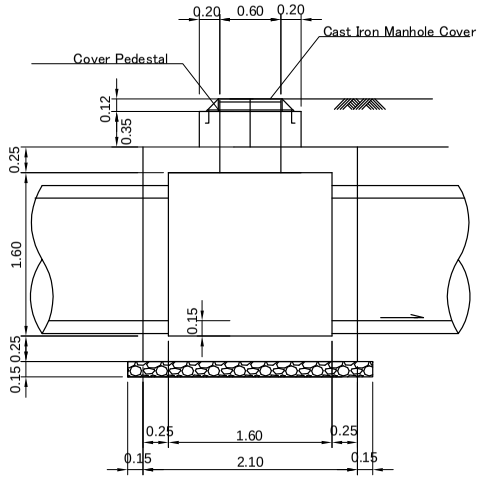
MH(M)1300x1300x1900

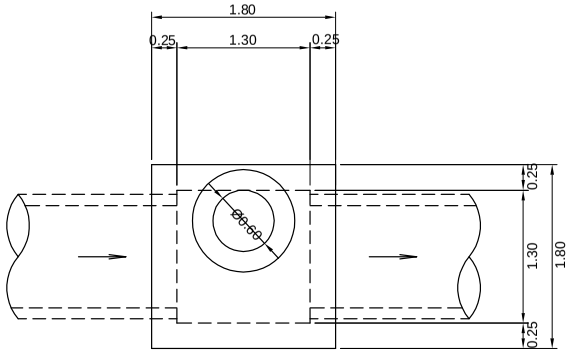


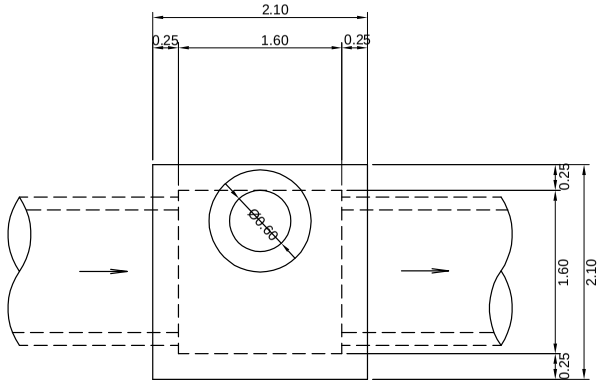


MH(M)1600x1600x2200



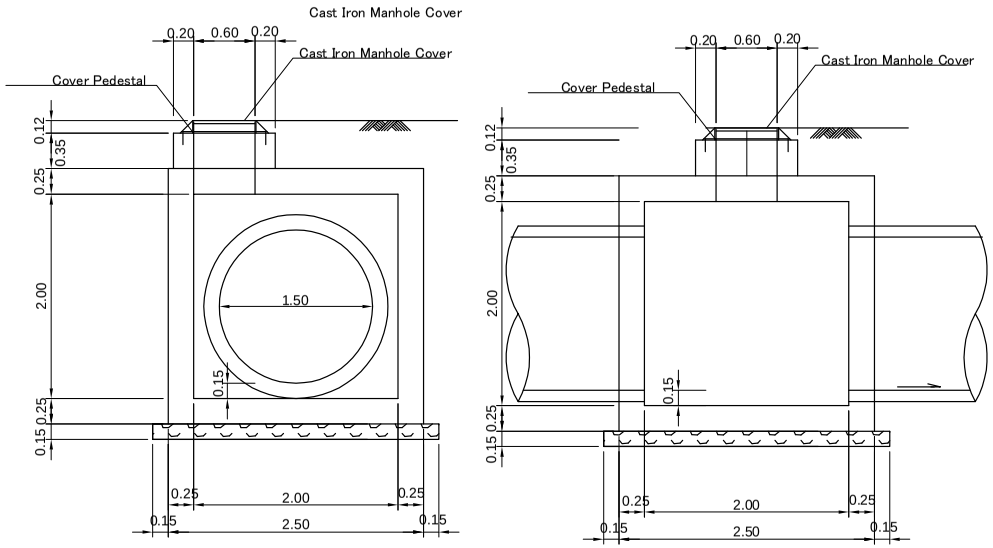




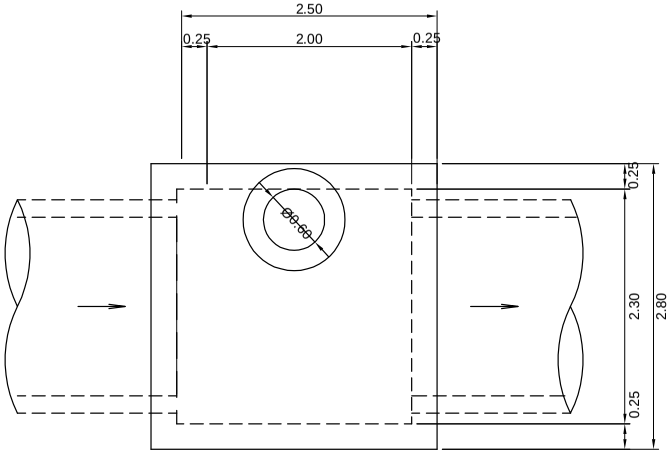


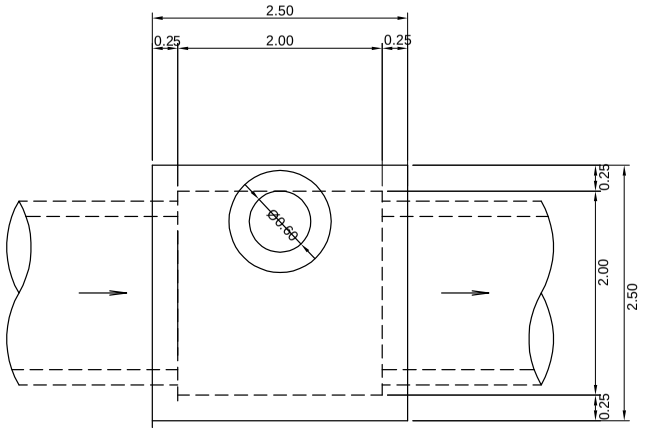
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (4) MANHOLE	SCALE 1/50	Drawing No. Sheet No.	DR-4 xx

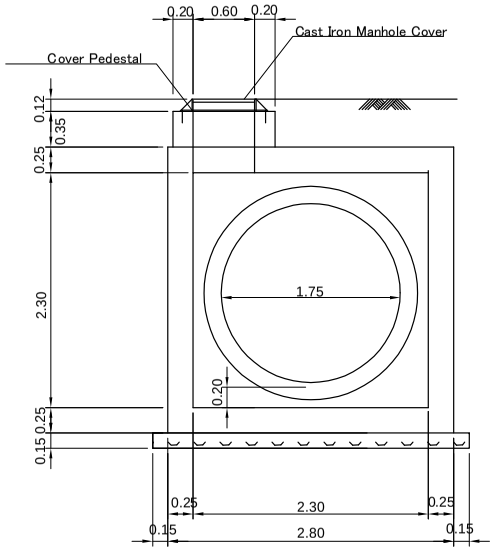
MH(M)2000x2000x2600

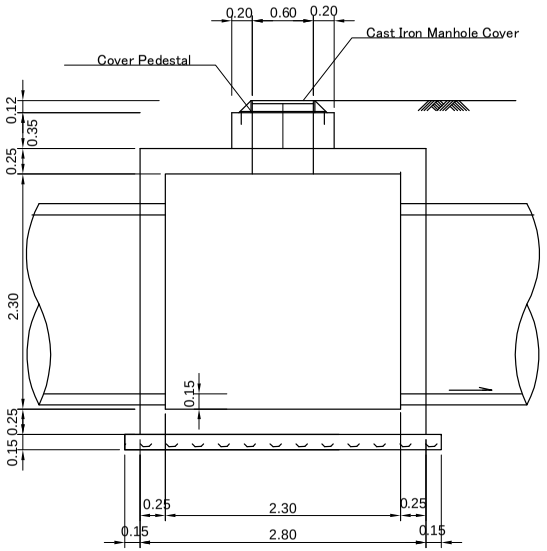


MH(M)2300x2300x2900





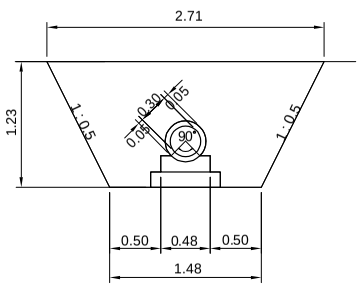




MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (5) MANHOLE	SCALE 1/50	Drawing No. Sheet No.	DR-5 xx

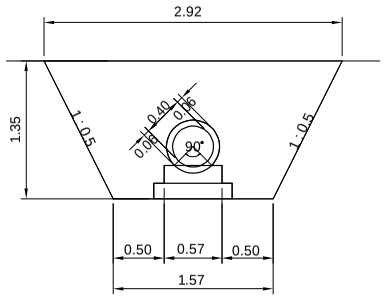
CP-D300(90)

Av. Excavation Depth
1.23m



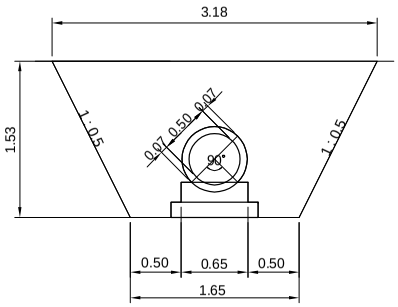
CP-D400(90)

Av. Excavation Depth
1.35m



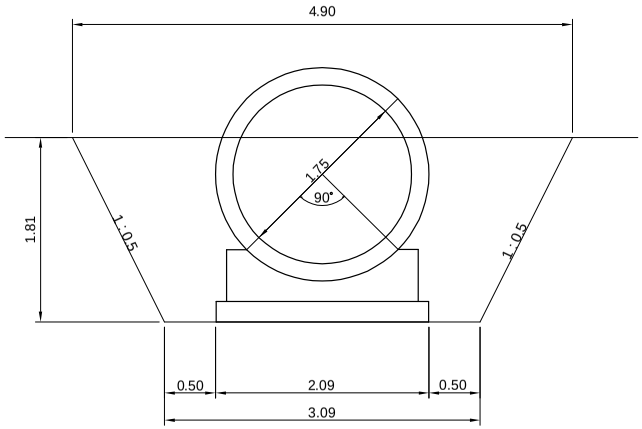
CP-D500(90)

Av. Excavation Depth
1.53m



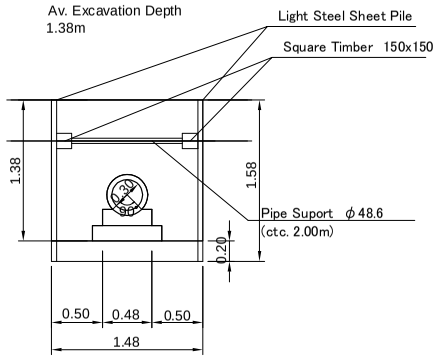
CP-D1750(90)

Av. Excavation Depth
1.81m



CP-D300(90)S

Av. Excavation Depth
1.38m



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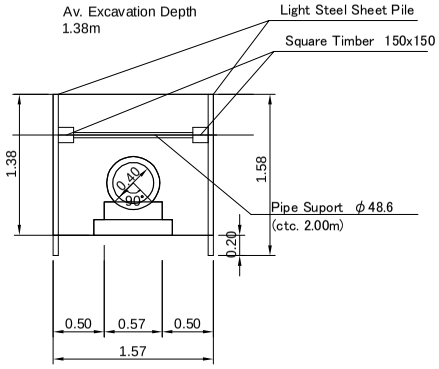
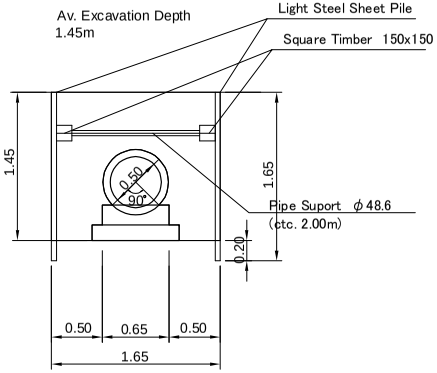
1.38m



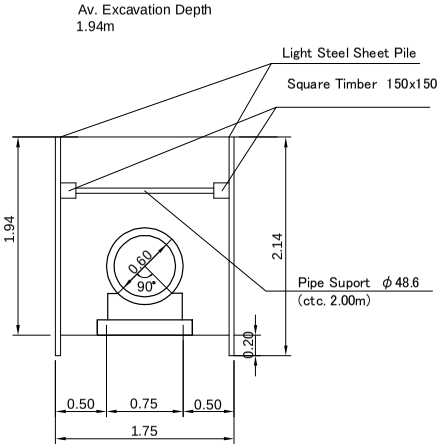
CP-D500(90)S

Av. Excavation Depth
1.45m

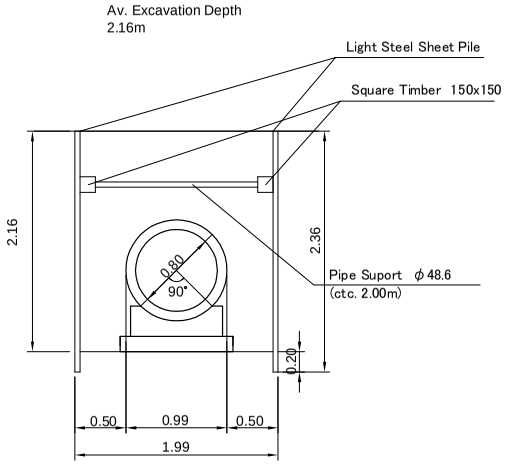


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (6) CONCRETE PIPE	SCALE 1/50	Drawing No. Sheet No.	DR-6 xx

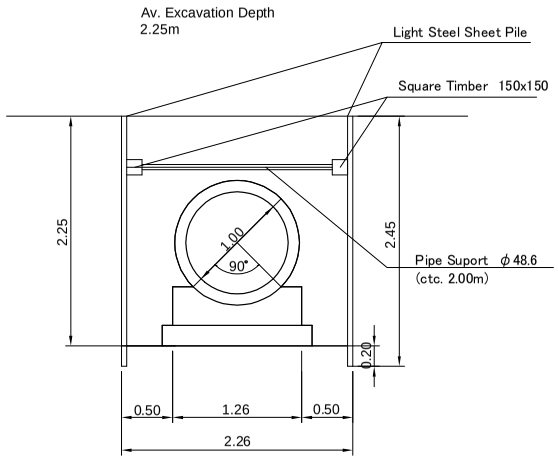
CP-D600(90)S



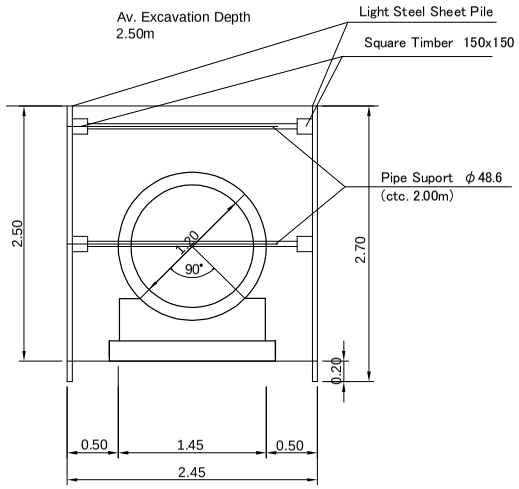
CP-D800(90)S



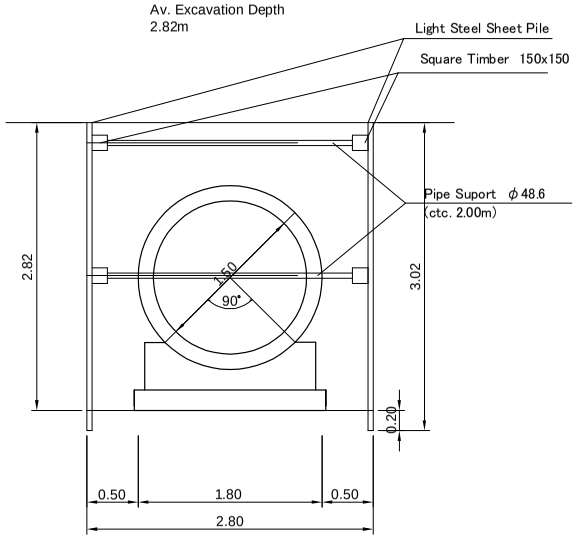
CP-D1000(90)S



CP-D1200(90)S



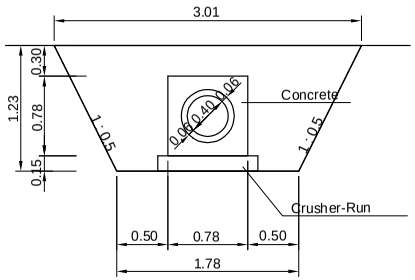
CP-D1500(90)S



MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (7) CONCRETE PIPE	SCALE 1/50	Drawing No. Sheet No.	DR-7 xx

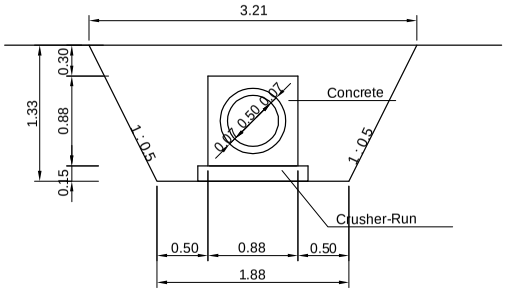
CP-D400(360)

Av. Excavation Depth
1.23m



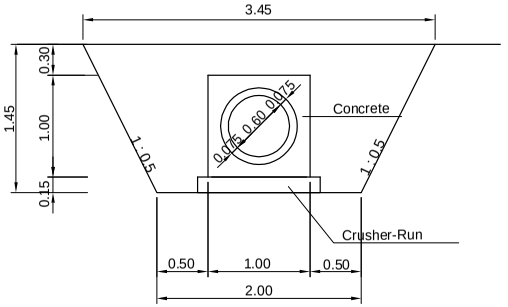
CP-D500(360)

Av. Excavation Depth
1.33m



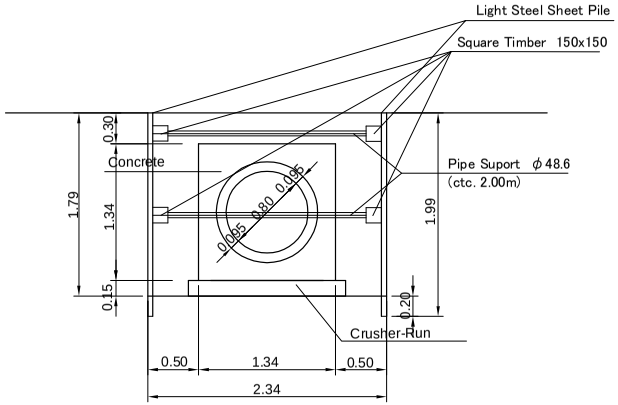
CP-D600(360)

Av. Excavation Depth
1.45m



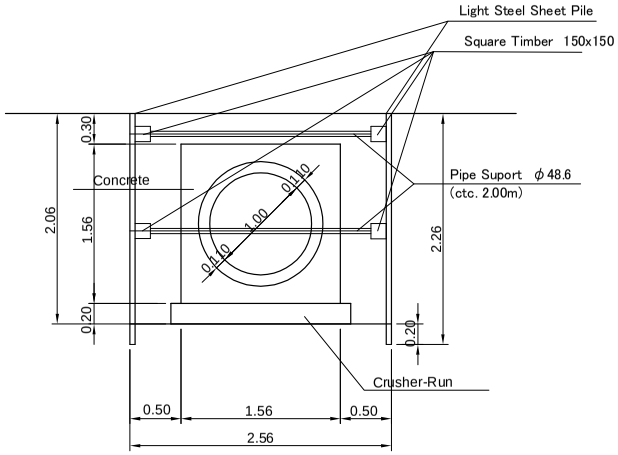
CP-D800(360)S

Av. Excavation Depth
1.79m



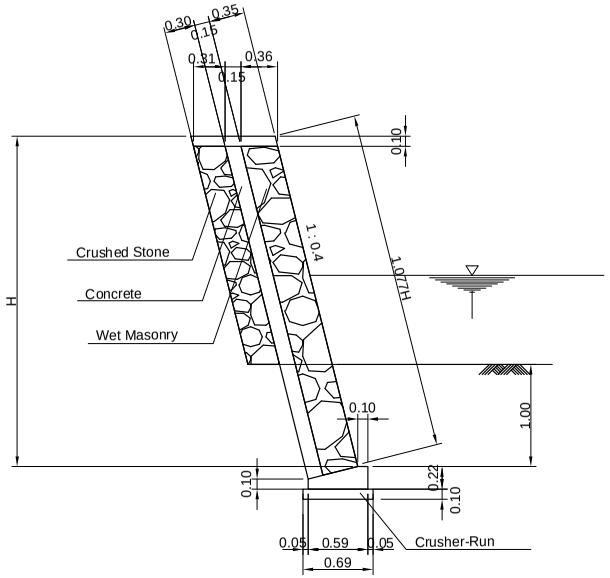
CP-D1000(360)S

Av. Excavation Depth
2.06m

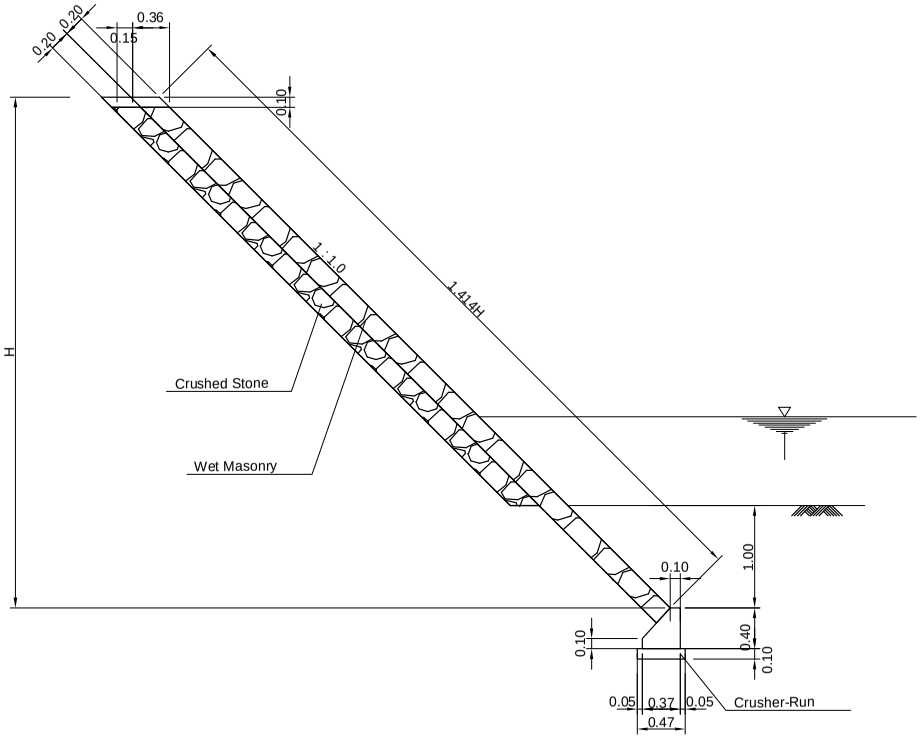


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (8) CONCRETE PIPE	SCALE 1/50	Drawing No. Sheet No.	DR-8 xx

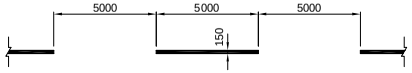
SM350(H=3.50)



SM200(H=5.00)

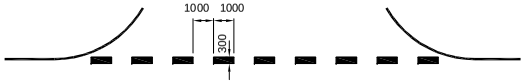


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : SLOPE PROTECTION	SCALE 1/50	Drawing No. Sheet No.	SM-01 xx

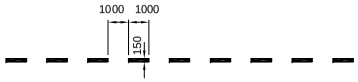


CENTRE LINE S=1/200

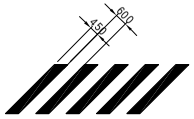
EDGE LINE S=1/200



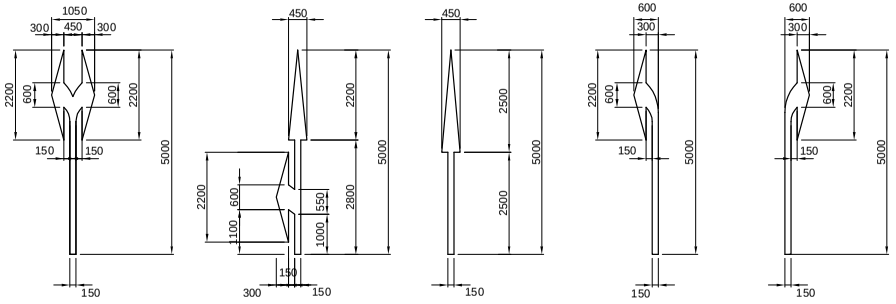
BROKEN LINE S=1/200



CHANNELIZING LINE
S=1/200

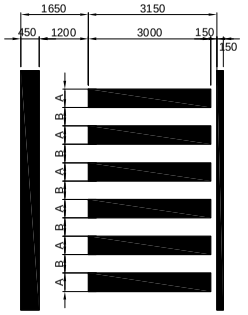


ZEBRA
S=1/200



LEFT AND RIGHT STRAIGHT AND LEFT STRAIGHT LEFT RIGHT

DIRECTIONAL ARROWS s=1/100



A = 0.45 m
B = 0.45 m

STOP LINE/CROSS WALK/BICYCLE LANE
S=1/100

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : ROAD MARKING	SCALE AS SHOWN	Drawing No.	RM-1
					Sheet No.	106

GENERAL

INDEX OF DRAWINGS

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INDEX OF DRAWINGS

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GENERAL NOTES FOR BRIDGES

A. DESIGN CRITERIA

1. CODES AND SPECIFICATIONS

THE DESIGN STANDARDS FOR THE STRUCTURES ARE :

- STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 17TH EDITION 2002.

2. UNIT WT. OF MATERIALS

	UNIT WEIGHT
A. REINFORCED CONCRETE	25.00 kN/m³
B. PLAIN CONCRETE	24.00 kN/m³
C. ASPHALT WEARING COARSE	22.00 kN/m³
D. STEEL	77.00 kN/m³
E. COMPACTED SAND, EARTH OR GRAVEL	19.00 kN/m³
F. SATURATED EARTH OR WATER	9.81 kN/m³
G. OTHERS	AS INDICATED

B. MATERIALS

1. CONCRETE

a). UNLESS OTHERWISE INDICATED ON PLANS, THE CONCRETE CLASS / 28-DAY COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER	CLASS	28-DAY COMPRESSIVE STRENGTH MPa	MAX. AGG. SIZE	SLUMP
FLAT SLAB APPROACH SLAB	A	32	25	8-12
SIDEWALKS, RAILING POST	C	32	15	8-12
CONCRETE BASE LEAN CONCRETE	D	18	25	8-12
RC PILE	E	32	20	8-12

CONCRETE COVER OF REINFORCEMENT

MINIMUM CLEAR COVER FOR REINFORCEMENT	
SLAB	50 mm
ABUTMENT & PIER	75 mm
RC PILES	50 mm
RAILINGS, POST & SIDEWALK	40 mm

2. REINFORCING STEEL

a) ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO GR. 60, MINIMUM YIELD POINT 420 MPa.

BAR SIZE	BAR AREA mm²	WT. (Kg/m)
10mm	78.5	0.617
13mm	132.7	1.042
16mm	201.1	1.578
19mm	283.5	2.226
22mm	360.1	2.984
25mm	490.9	3.853
29mm	662.9	5.185
32mm	804.2	6.313

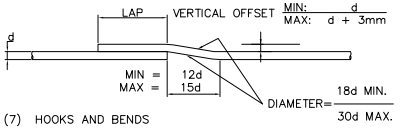
b) UNLESS OTHERWISE INDICATED IN THE PLANS, THE MINIMUM DEVELOPMENT LENGTH.

BAR SIZE	MIN DEVELOPMENT LENGTH		MIN LAP SPLICE	
	COMP.	TENSION	COMP.	TENSION
10mm	200mm	300mm	300mm	325mm
13mm	260mm	390mm	390mm	422mm
16mm	320mm	480mm	480mm	520mm
19mm	380mm	570mm	570mm	617mm
22mm	440mm	660mm	660mm	715mm
25mm	500mm	750mm	750mm	812mm
29mm	580mm	870mm	870mm	942mm
32mm	640mm	960mm	960mm	1040mm

C. CONSTRUCTION

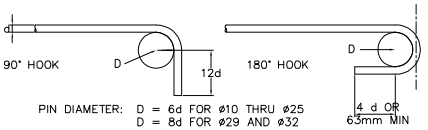
ALL WORKS SHALL COMPLY WITH THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT.

1. DIMENSIONS
   - 1.1 SECTION, DIMENSIONS AND DISTANCES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE INDICATED DIMENSION SHALL GOVERN UNLESS OTHERWISE SPECIFIED.
   - 1.2 ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
   - 1.3 ALL STATIONING ARE IN KILOMETER PLUS METER AND ELEVATION IN METER.
2. REINFORCED CONCRETE
   - a. ALL EXPOSED EDGES SHALL BE CHAMFERED 25mm EXCEPT RAILINGS WHICH SHALL BE CHAMFERED AND FILLETED 15mm.
   - b. FOR CONCRETE DEPOSITED AGAINST THE GROUND, LEAN CONCRETE WITH A MINIMUM THICKNESS OF 50mm SHALL LAID FIRST BEFORE INSTALLING THE REINFORCEMENT. THIS LEAN CONCRETE SHALL NOT BE CONSIDERED IN MEASURING THE STRUCTURAL DEPTH OF CONCRETE SECTION.
   - c. BAR BENDING, SPLICING AND PLACING
     - (1) THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER/CONSULTANT FOR APPROVAL OF SHOP DRAWINGS INDICATING THE BENDING, CUTTING, SPLICING AND INSTALLATION OF ALL REINFORCING BARS.
     - (2) BARS SHALL BE BEND COLD. BARS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNLESS PERMITTED BY THE ENGINEER/CONSULTANT.
     - (3) BAR SPLICING NOT INDICATED ON DRAWINGS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
     - (4) NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION SHALL
     - (5) UNLESS OTHERWISE SHOWN ON DRAWINGS, THE CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL DIAMETER OF THE BAR NOR LESS THAN 1.5 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE. THE CLEAR DISTANCE BETWEEN LAYERS SHALL NOT BE LESS THAN 25mm NOR ONE BAR DIAMETER. THE BARS IN THE UPPER LAYER SHALL BE PLACED DIRECTLY ABOVE THOSE IN THE BOTTOM LAYER.
     - (6) CRANKED SPLICES



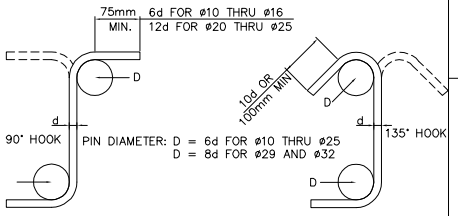
     - (7) HOOKS AND BENDS

DIMENSIONS OF 90-DEGREE AND 180-DEGREE HOOKS



PIN DIAMETER: D = 6d FOR ø10 THRU ø25
D = 8d FOR ø29 AND ø32

     - (8) DIMENSIONS FOR STIRRUPS AND TIE HOOKS



PIN DIAMETER: D = 6d FOR ø10 THRU ø25
D = 8d FOR ø29 AND ø32

   - d. CONSTRUCTION JOINT
     - (1) THE POSITION AND FORM OF ANY CONSTRUCTION JOINT SHALL BE AS SHOWN ON DRAWINGS OR AS AGREED WITH THE ENGINEER/CONSULTANT.
     - (2) THE INTERFACE BETWEEN THE FIRST AND SECOND POUR CONCRETES SHALL BE ROUGHENED WITH AN AMPLITUDE OF 6MM MINIMUM.
   - e. FALSEWORK

     ALL FALSEWORK SHALL BE DESIGNED BY THE CONTRACTOR SUBJECT TO THE APPROVAL BY THE ENGINEER/CONSULTANT.
   - f. FORMWORK

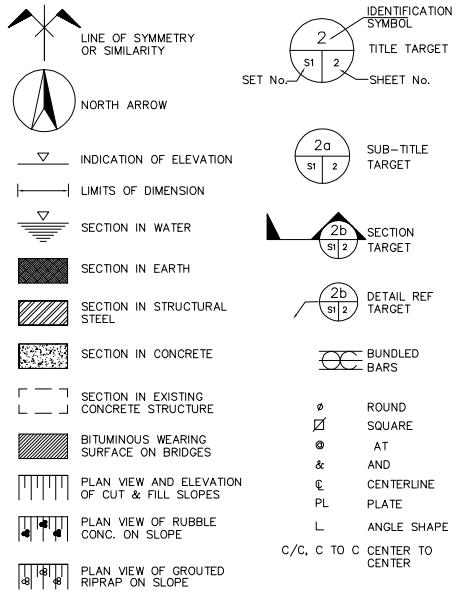
     FORMWORKS SHALL BE CONSTRUCTED SUCH THAT IT WILL NOT YIELD UNDER THE LOAD AND SHALL BE SUCH AS TO AVOID THE FORMATION OF FINE. ALL CORNERS OF CONCRETE MEMBERS SHALL BE CHAMFERED TO 25mm UNLESS NOTED OTHERWISE ON DRAWINGS. STRIPPING OF FORMS AND SHORES SHALL BE AS DESIGNATED BY THE ENGINEER/CONSULTANT. THE FOLLOWING MAYBE USED AS A GUIDE.

	MIN. TIME
SHORING UNDER GIRDERS, BEAMS, FRAMES.	14 DAYS
DECK SLABS	14 DAYS
WALLS.	7 DAYS
COLUMNS.	7 DAYS
SIDES OF BEAMS AND ALL OTHER VERTICAL SURFACES	2 DAYS

   - g. PROTECTION AND CURING OF CONCRETE

     CONCRETE SURFACES SHALL BE PROTECTED FROM HARMFULS

SYMBOLS

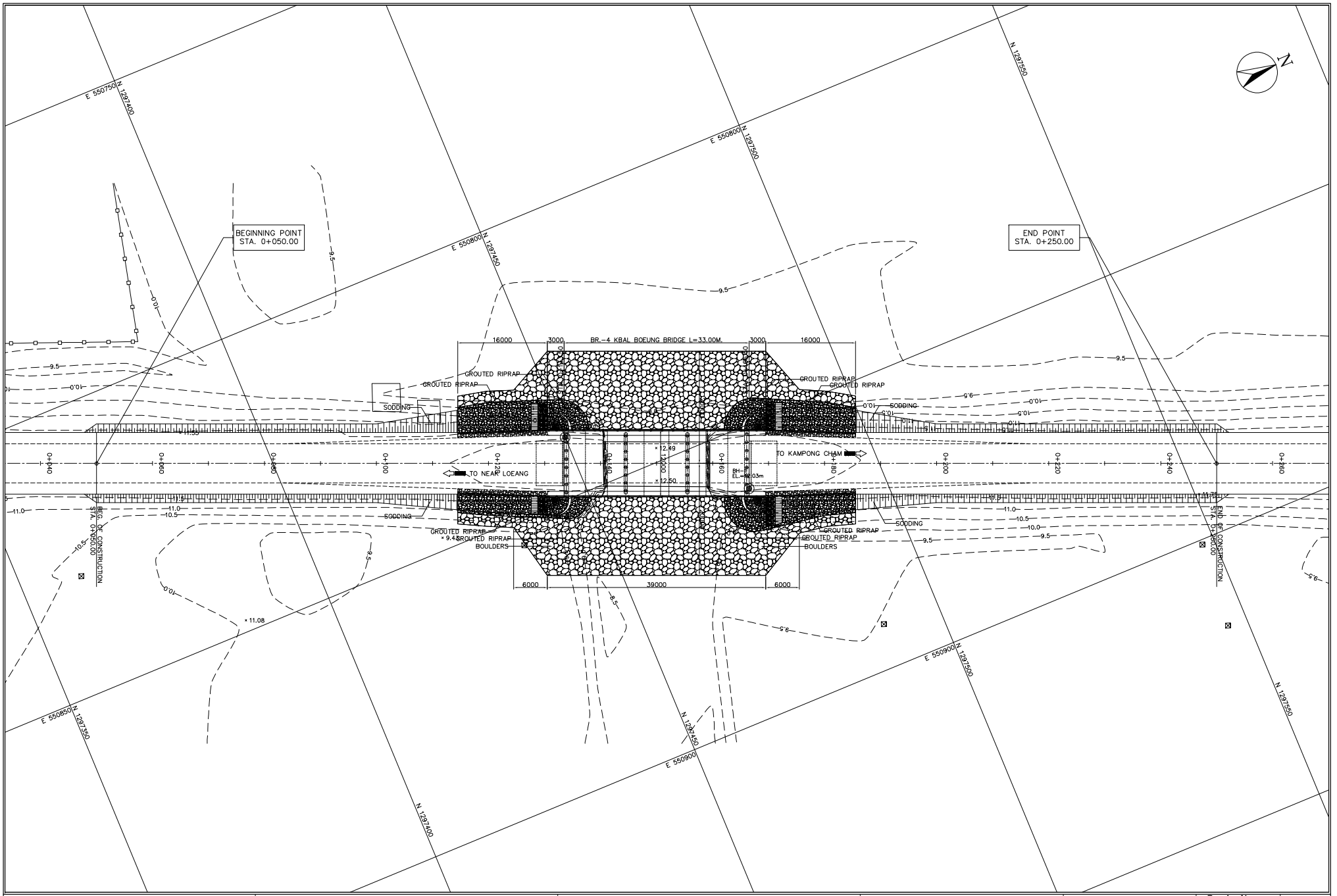


ABBREVIATIONS

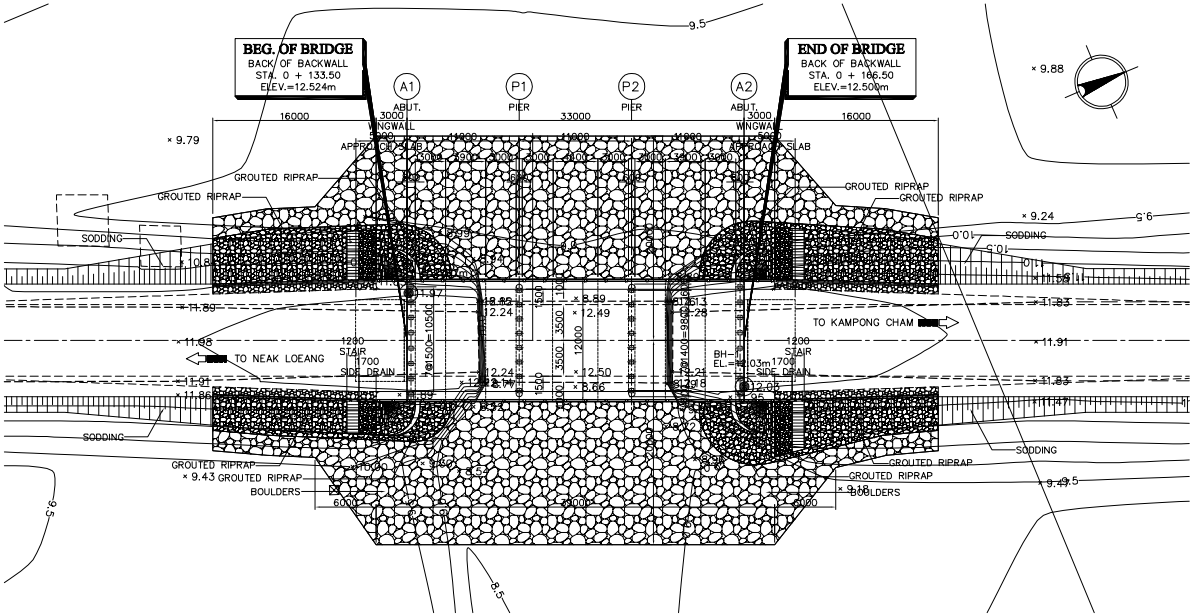
ABT	ABOUT	kPa	KILOPASCAL
ABUT	ABUTMENT	m	METER
BEG	BEGINNING	mm	MILLIMETER
BET	BETWEEN	MAX	MAXIMUM
BOTT	BOTTOM	MFWL	MAX. FLOOD WATER LEVEL
BR	BRIDGE	MIN	MINIMUM
BRG	BEARING	MO	MIDDLE ORDINATE
CLR	CLEAR	MPa	MEGAPASCAL
cm	CENTIMETER	N	NEWTON
COL	COLUMN	NF	NEAR FACE
CONC	CONCRETE	No.	NUMBER
CONST	CONSTRUCTION	O.C.	ON CENTER
CTR	CENTER	PEJ	PREMOULDED EXPANSION JOINT
DET	DETAIL	PVC	POLYVINYL CHLORIDE
DIAM	DIAMETER	PVI	POINT OF VERT. INTERSECTION
DIAPH	DIAPHRAGM	QTY	QUANTITY
DWG	DRAWING	R	RADIUS
EA	EACH	RC	REINFORCED CONCRETE
EF	EACH FACE	RDWY	ROADWAY
ELEV	ELEVATION	REINF	REINFORCEMENT
ENGR	ENGINEER	SDWK	SIDEWALK
EQ	EQUAL	SL	SLOPE
EW	EACHWAY	SP	SPIRAL
EXP	EXPANSION	SPCD	SPACED
EXT	EXTERIOR	SPCS	SPACES
EXIST	EXISTING	STD	STANDARD
FF	FAR FACE	STIR	STIRRUP
FTG	FOOTING	STA	STATION
GEN	GENERAL	STRUCT	STRUCTURE
HOR	HORIZONTAL	SYMM	SYMMETRY
HW	HIGH WATER	THK	THICK
INT	INTERIOR	TYP	TYPICAL
INTERM	INTERMEDIATE	VAR	VARIABLE
JT	JOINT	VERT	VERTICAL
L	LENGTH	VOL	VOLUME
LG	LONG	W	WIDTH
kg	KILOGRAM	W/	WITH
kN	KILONEWTON	&	AND

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : GENERAL NOTES	SCALE AS SHOWN	Drawing No. Sheet No.	0 - 2

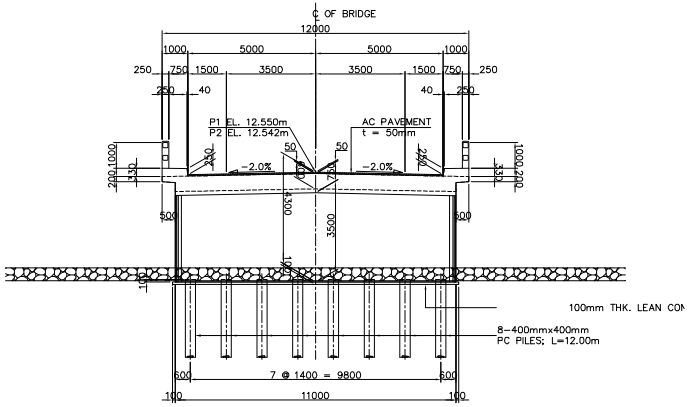
BR-4 KBAL BOEUNG BRIDGE



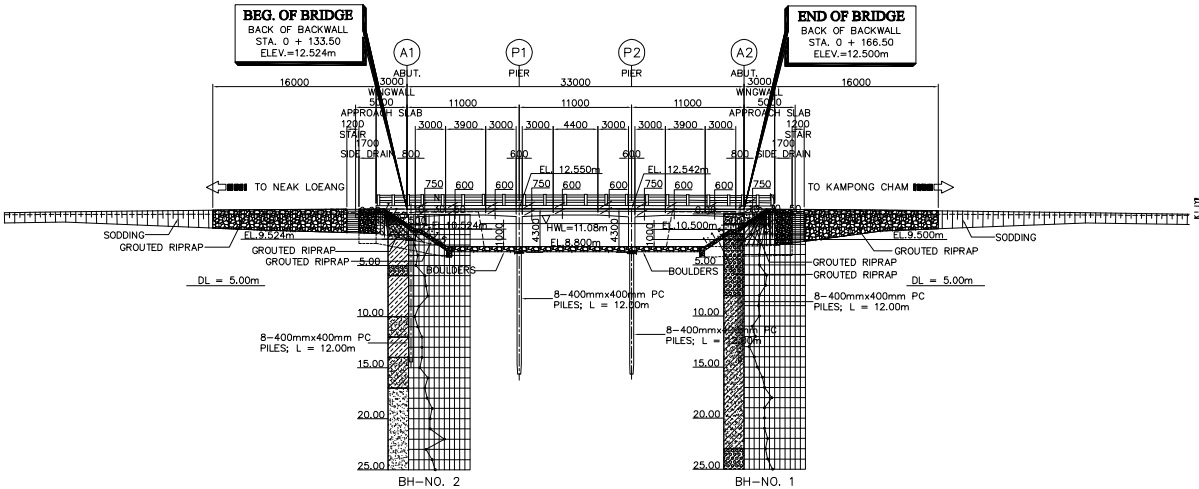
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	**JAPAN INTERNATIONAL COOPERATION AGENCY** KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-04 KBAL BOEUNG BRIDGE GENERAL SITE PLAN	SCALE 1:600	Drawing No.	1 - 1
					Sheet No.	



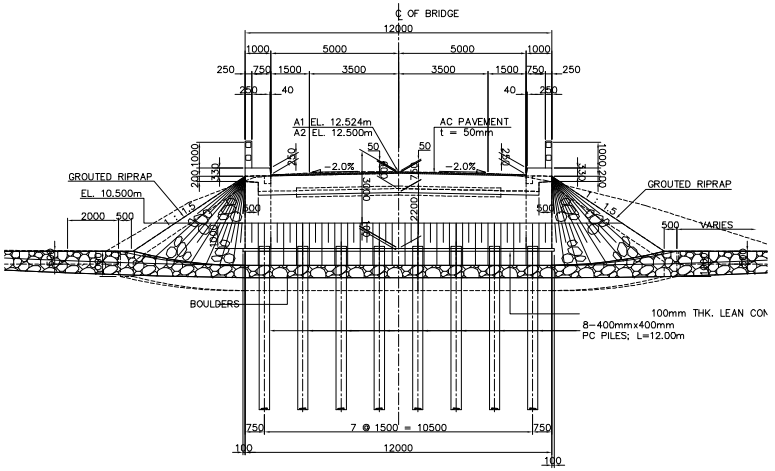
1 GENERAL PLAN
SCALE 1:500



3 SECTION @ PIER P2
SCALE 1:200

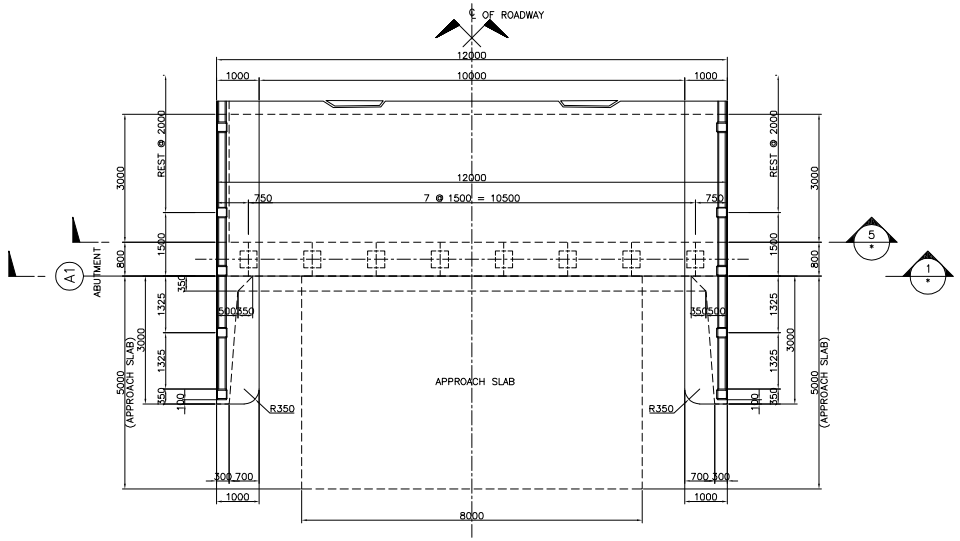


2 GENERAL ELEVATION
SCALE 1:500

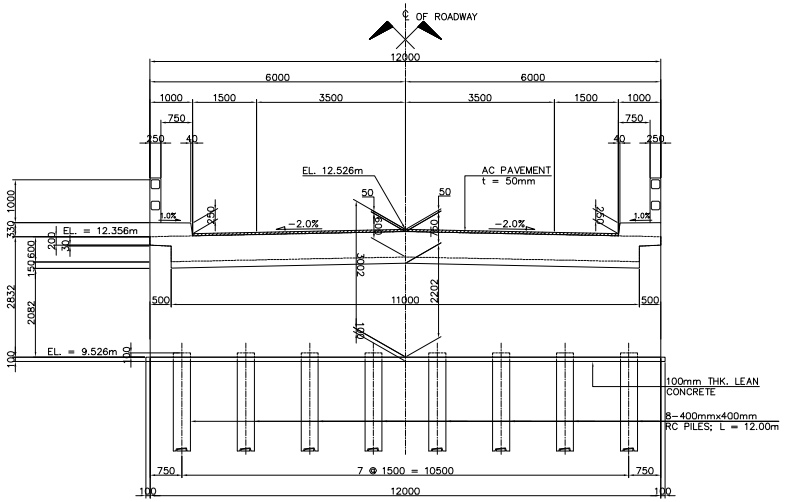


4 SECTION @ ABUT. A2
SCALE 1:200

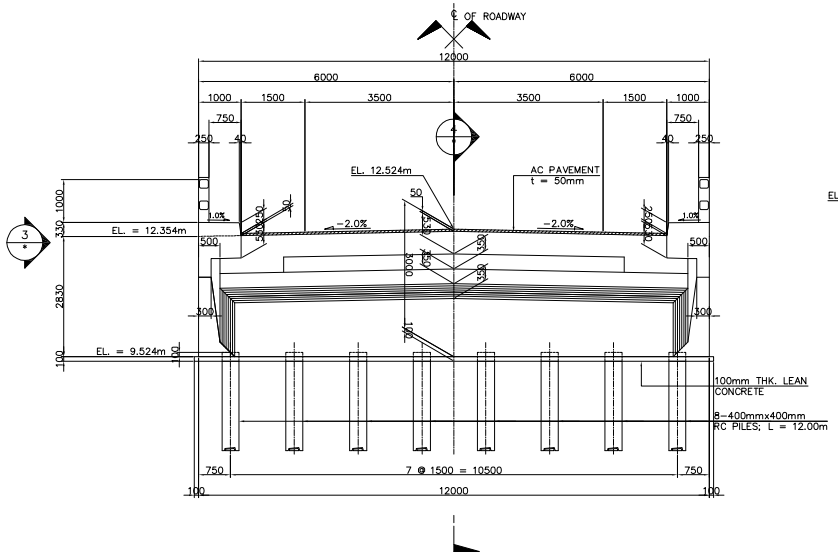
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-04 KBAL BOEUNG BRIDGE GENERAL PLAN, ELEVATION AND SECTIONS	SCALE AS SHOWN	Drawing No. 1 - 2 Sheet No.



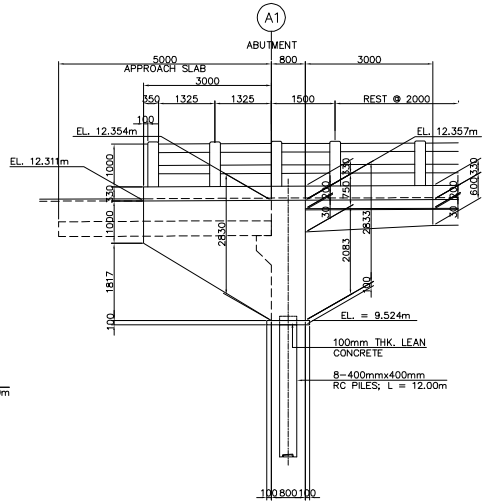
2 PLAN
SCALE 1:60



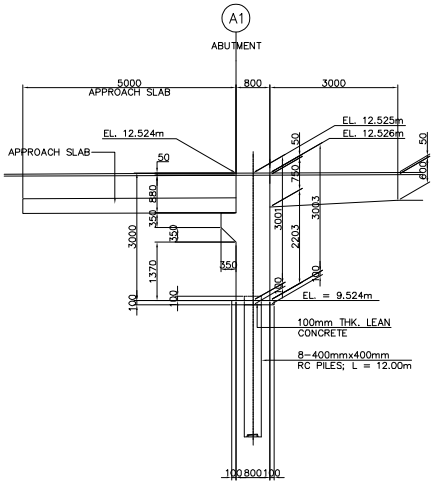
5 ELEVATION
SCALE 1:60



1 ELEVATION
SCALE 1:60

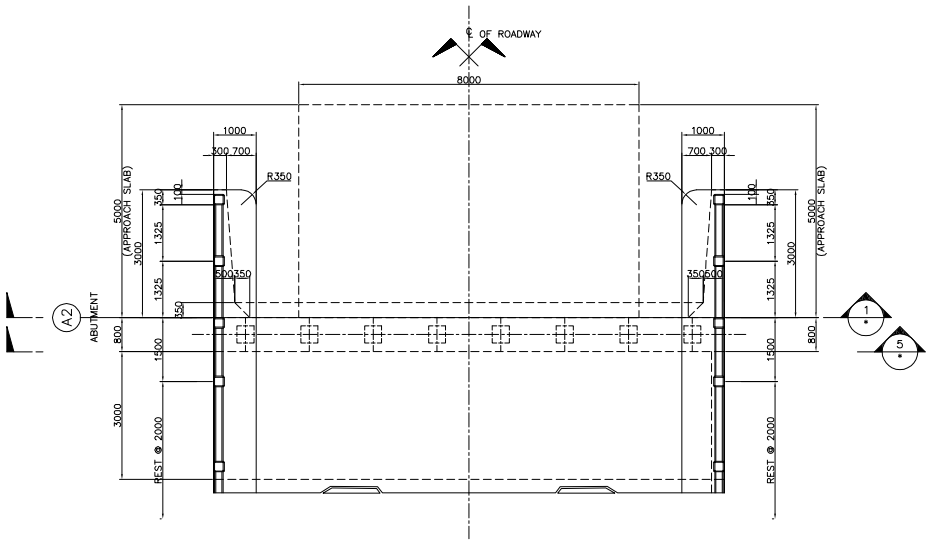


3 ELEVATION
SCALE 1:60

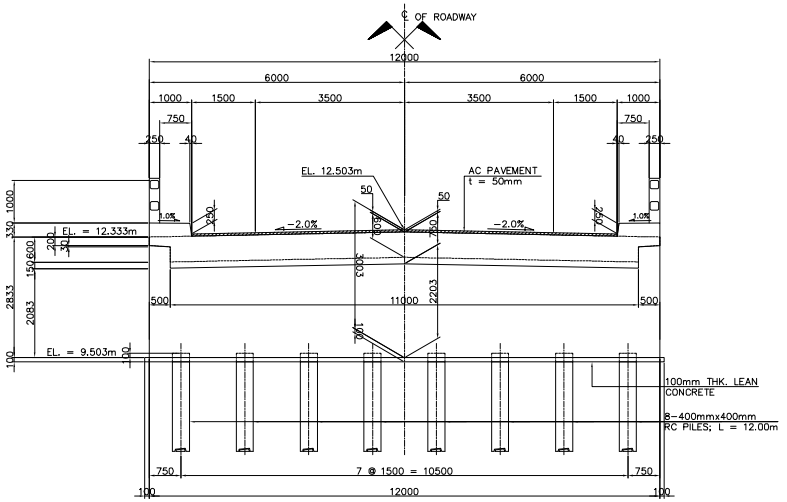


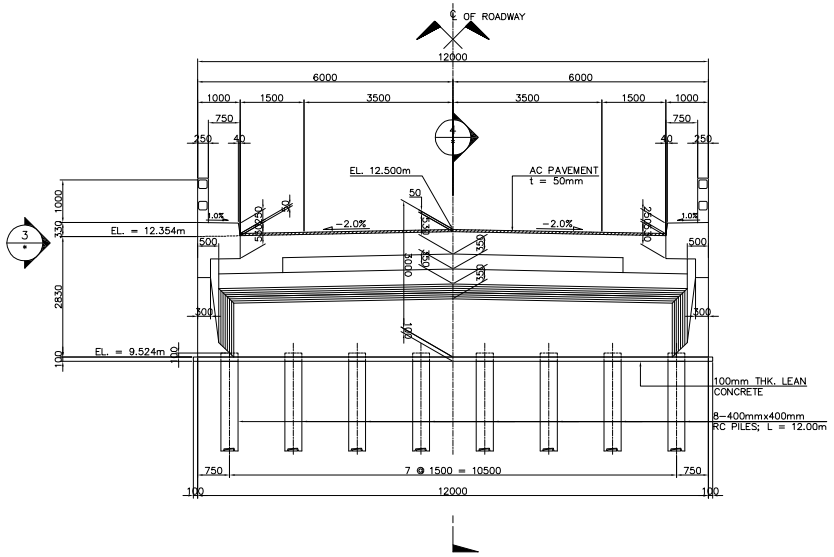
4 SECTION
SCALE 1:60

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-4 KABAL BOEUNG BRIDGE SUBSTRUCTURE STRUCTURALDIMENSION (ABUT. A1)	SCALE AS SHOWN	Drawing No. Sheet No.	1 - 3

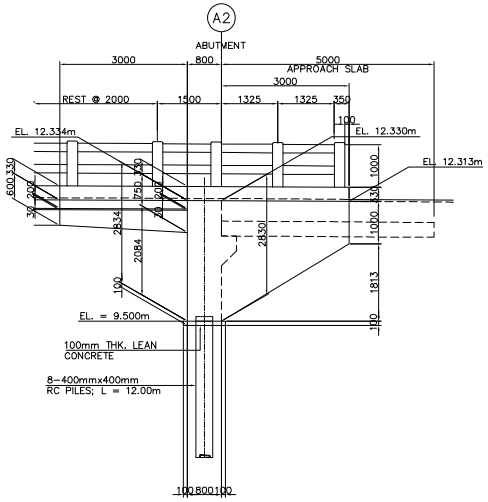


2 PLAN
SCALE 1:60

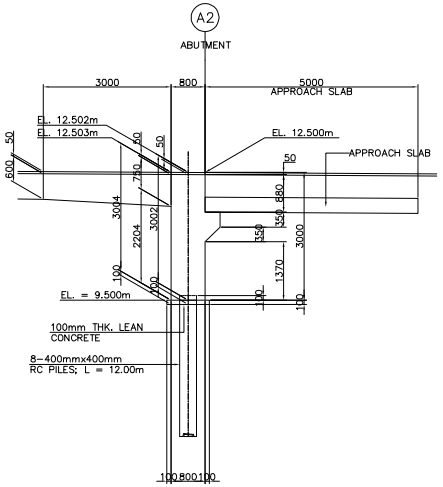




1 ELEVATION
SCALE 1:60

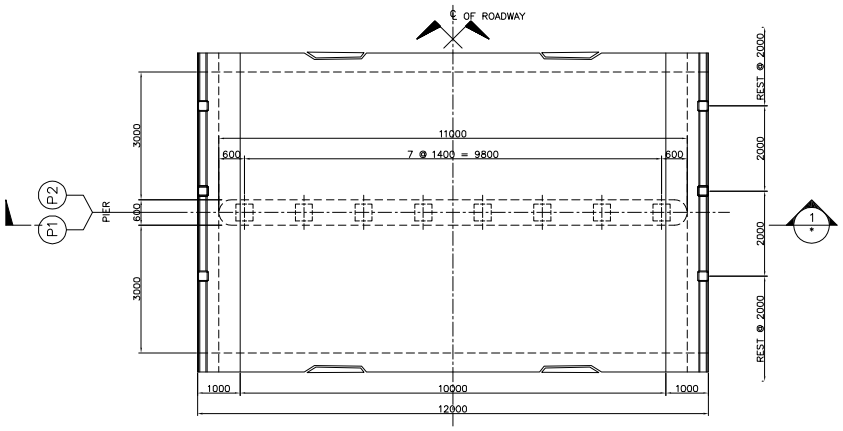


3 ELEVATION
SCALE 1:60



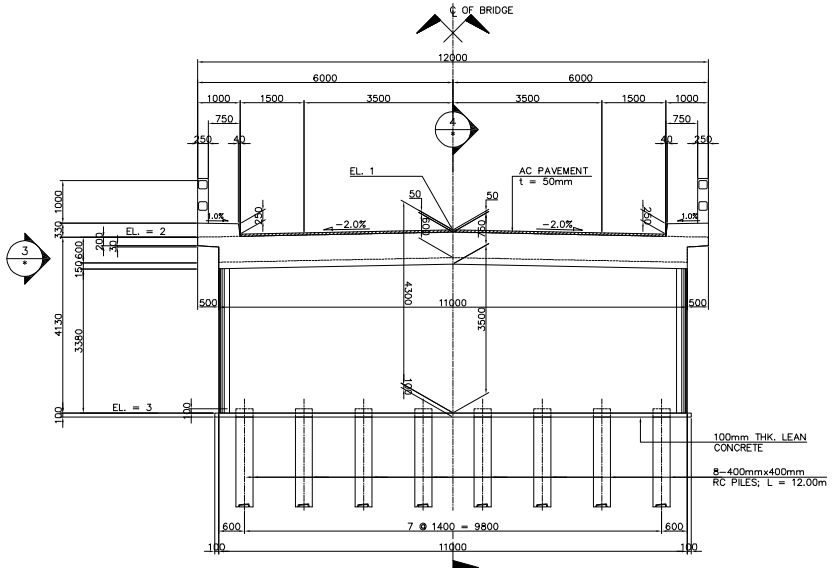
4 SECTION
SCALE 1:60

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-04 KABAL BOEUNG BRIDGE SUBSTRUCTURE STRUCTURALDIMENSION (ABUT. A2)	SCALE AS SHOWN	Drawing No. Sheet No.	1 - 4

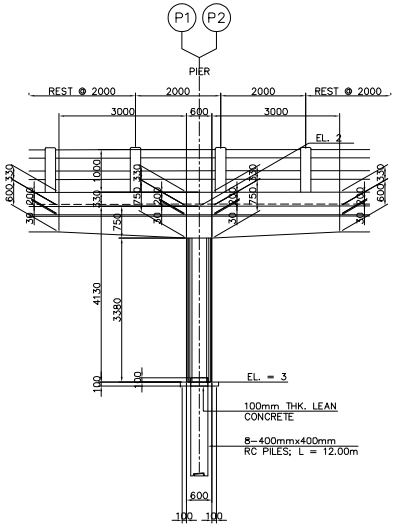


2 PLAN
SCALE 1:60

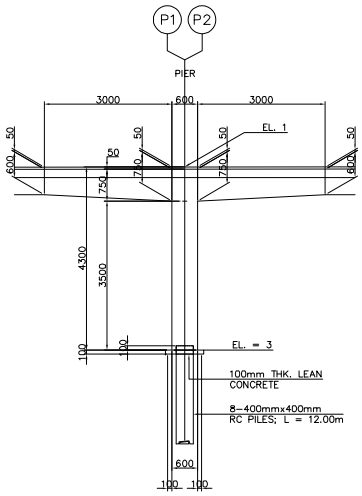
TABLE OF ELEVATIONS			
LOCATION	EL. 1	EL. 2	EL. 3
PIER 1	12.550m	12.380m	8.250m
PIER 2	12.542m	12.372m	8.242m



1 ELEVATION
SCALE 1:60

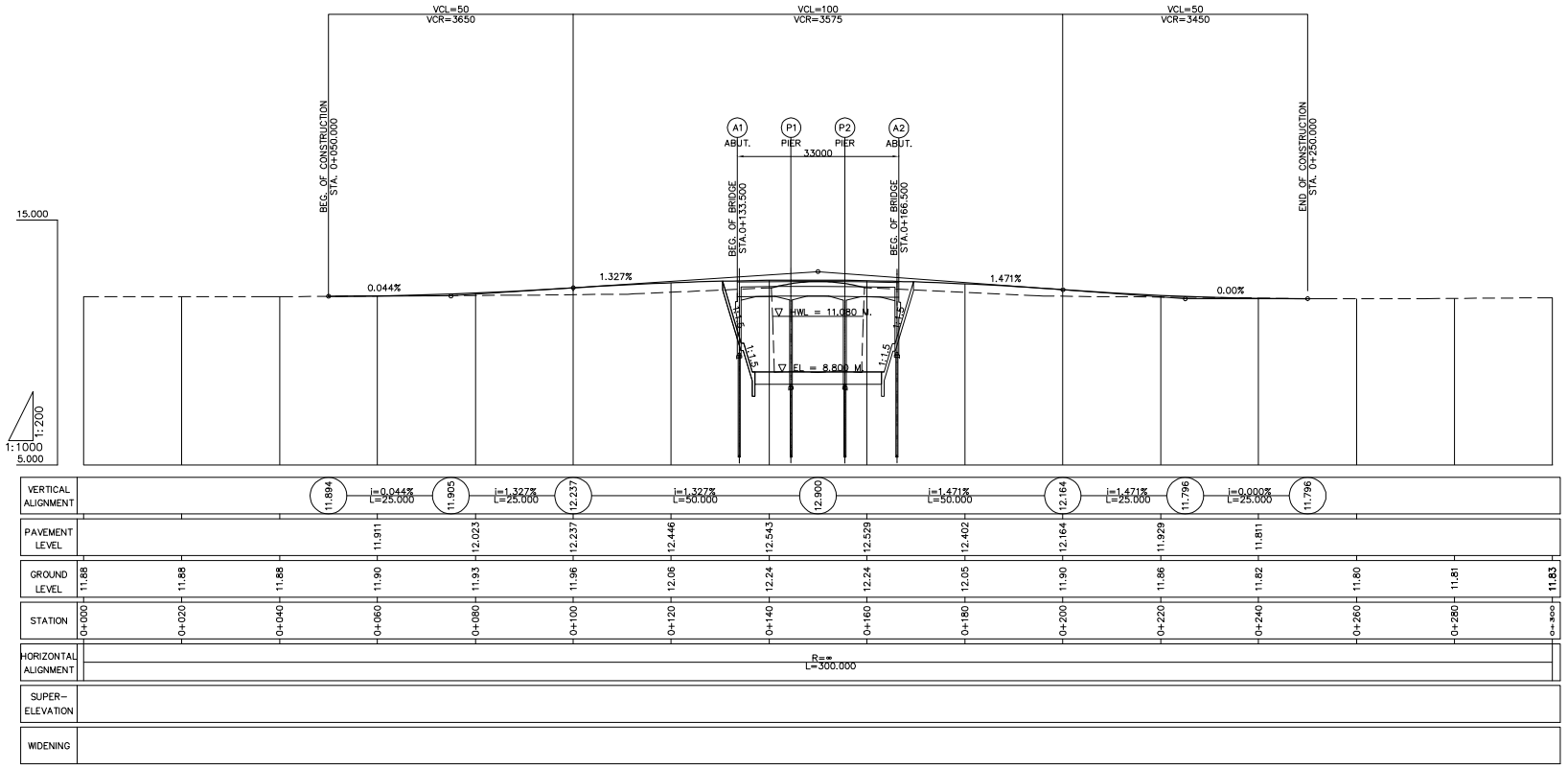


3 ELEVATION
SCALE 1:60



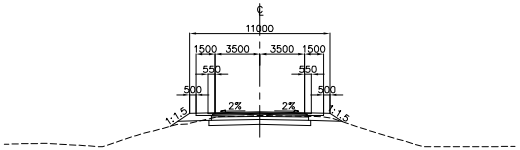
4 SECTION
SCALE 1:60

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-04 KABAL BOEUNG BRIDGE SUBSTRUCTURE STRUCTURALDIMENSION (PIER P1 & P2)	SCALE AS SHOWN	Drawing No. Sheet No.	1 - 5



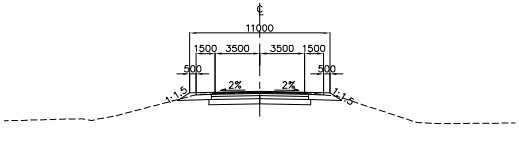
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-04 KBAL BOEUNG BRIDGE APPROACH ROAD PROFILE	SCALE H = 1:1000 V = 1:200	Drawing No. Sheet No.	1 - 6

NO.0+100.000
GH=11.96
PH=12.237



DL=5.00

NO.0+080.000
GH=11.93
PH=12.023



DL=5.00

NO.0+060.000
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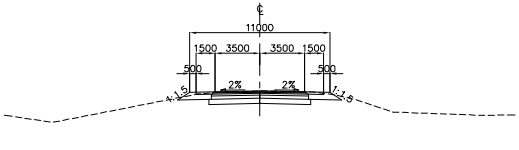
PH=11.911



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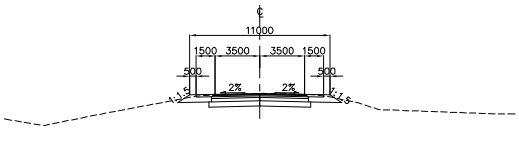
PH=11.894



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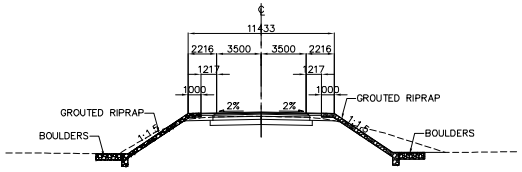
PH=12.402



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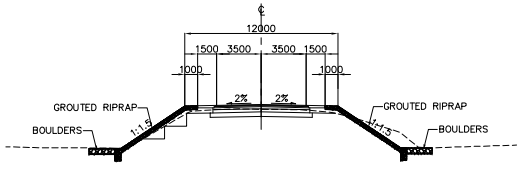
PH=12.470



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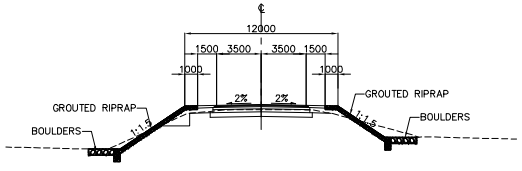
PH=12.500



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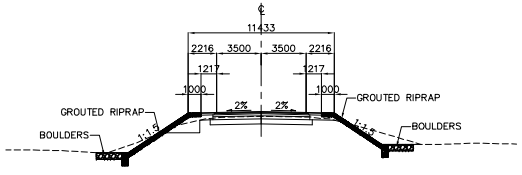
PH=12.446



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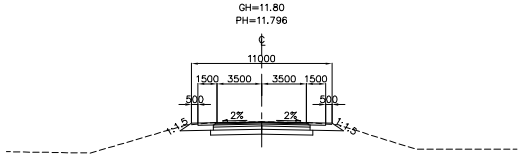
GH=11.80
PH=11.796



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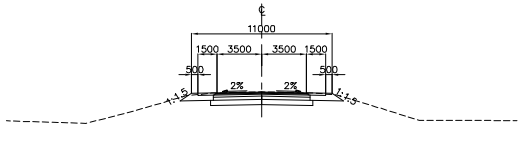

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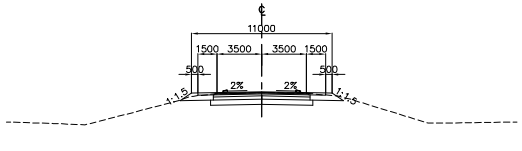
PH=11.929



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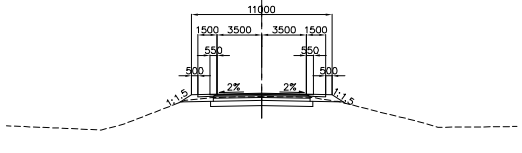

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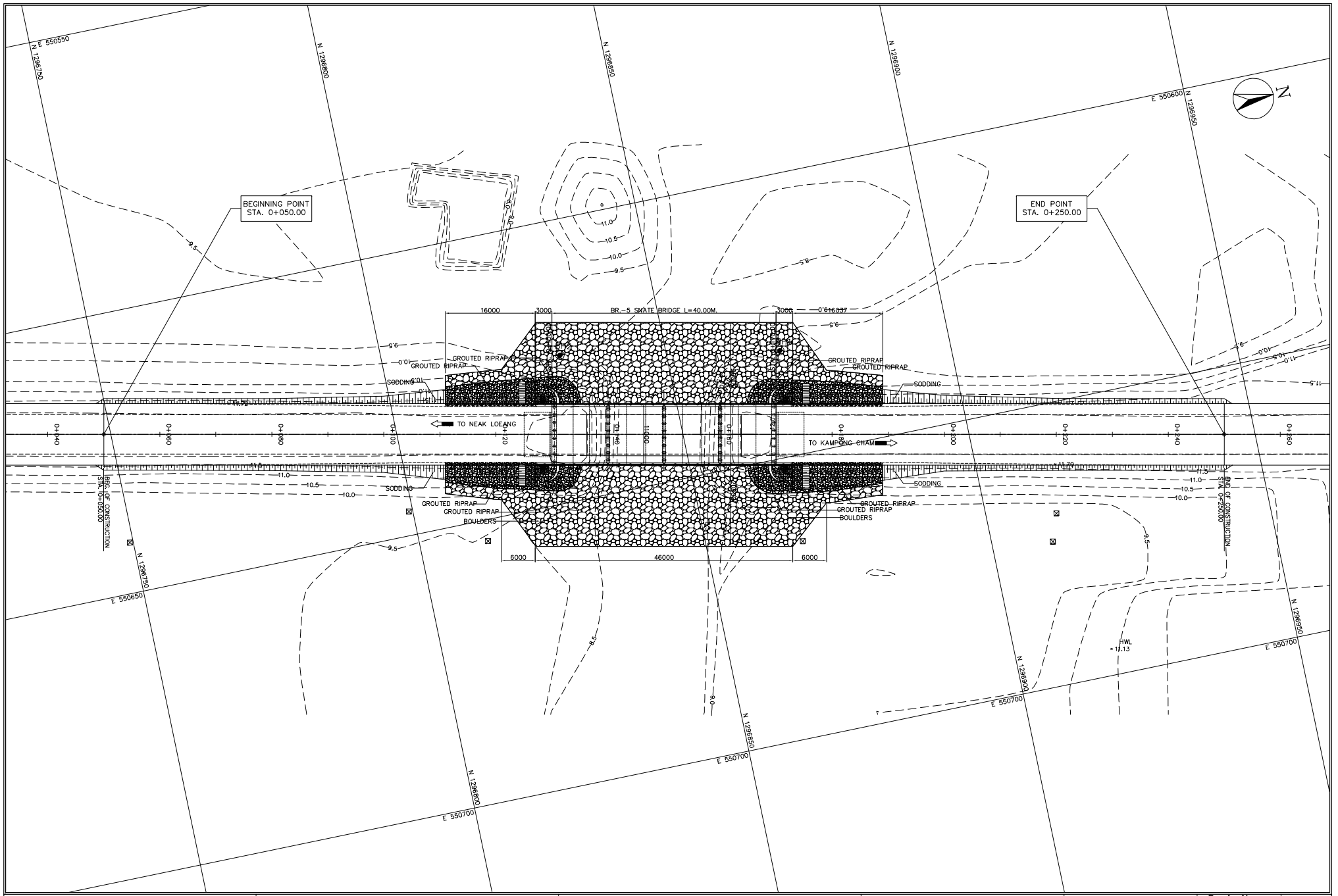
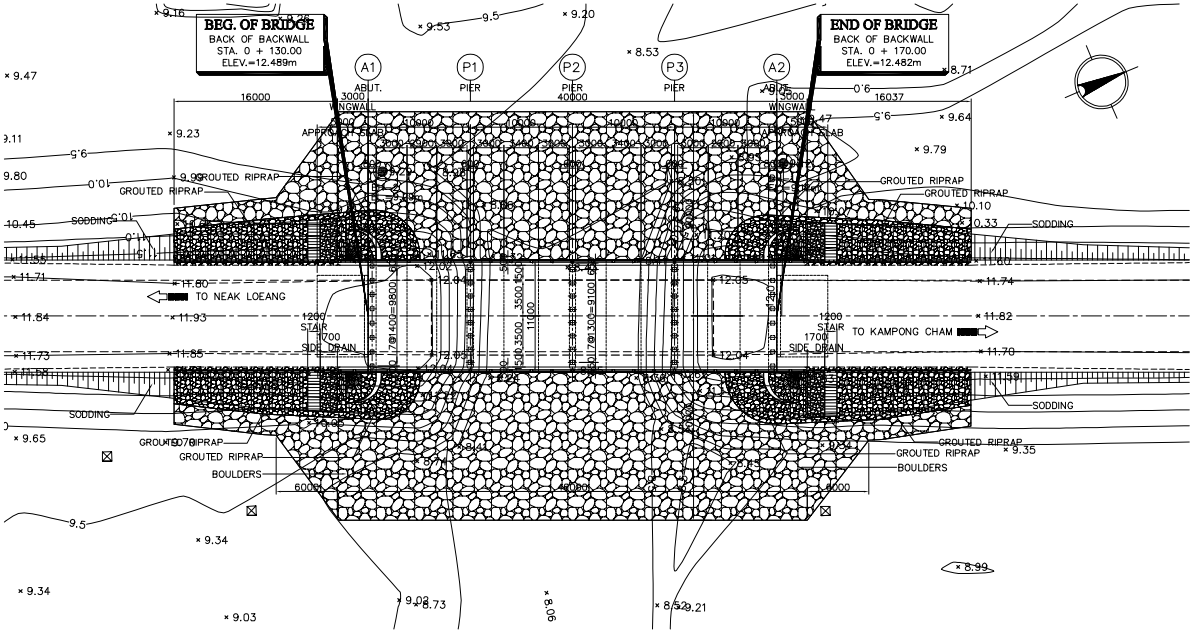
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	**JAPAN INTERNATIONAL COOPERATION AGENCY** KATAHIRA & ENGINEERS INTERNATIONAL	**TITLE :** BR-04 KBAL BOEUNG BRIDGE APPROACH ROAD CROSS SECTIONS	**SCALE** 1 : 400	**Drawing No.**	1 - 7
					Sheet No.	

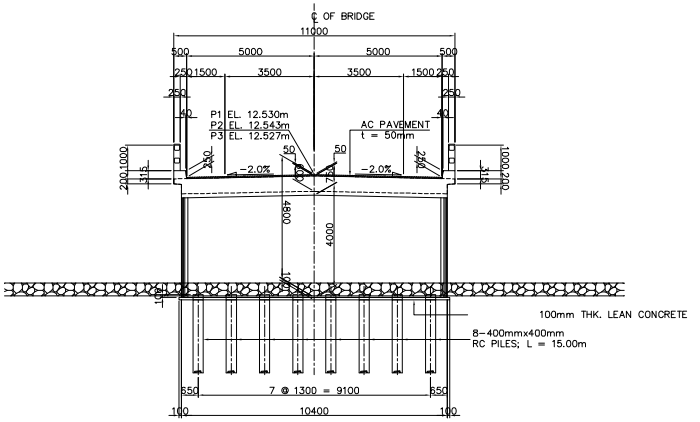
BR-5 SNATE BRIDGE



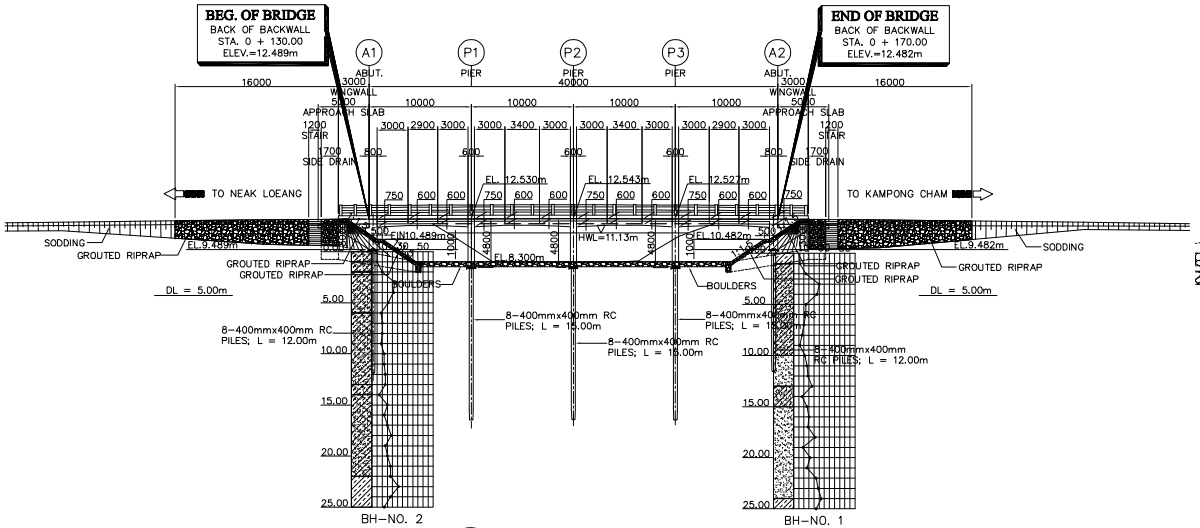
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	**JAPAN INTERNATIONAL COOPERATION AGENCY** KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-5 SNATE-IDD BRIDGE GENERAL SITE PLAN	SCALE 1:600	Drawing No.	2 - 1
					Sheet No.	



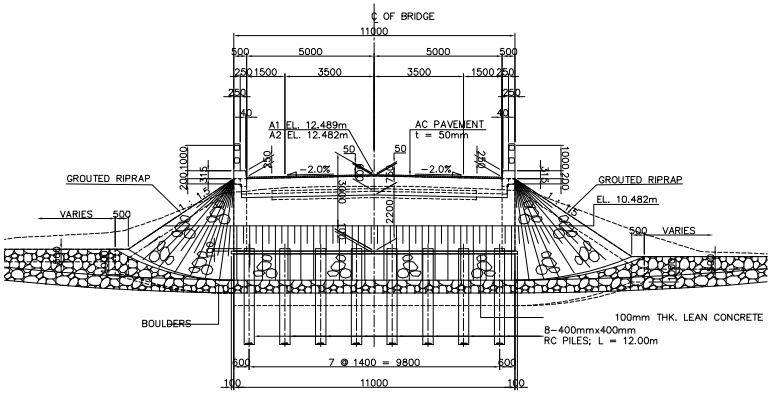
1 GENERAL PLAN
SCALE 1:500



3 SECTION @ PIER P2
SCALE 1:200

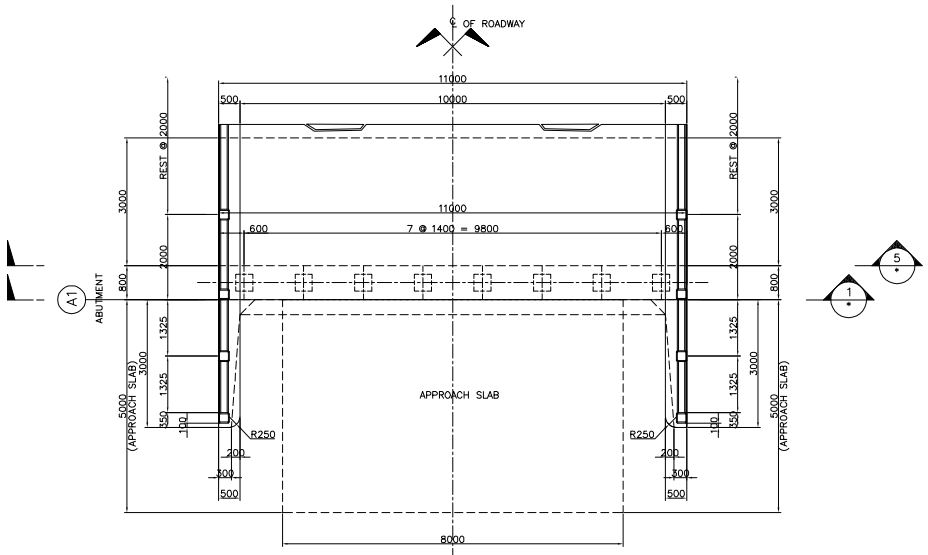


2 GENERAL ELEVATION
SCALE 1:500

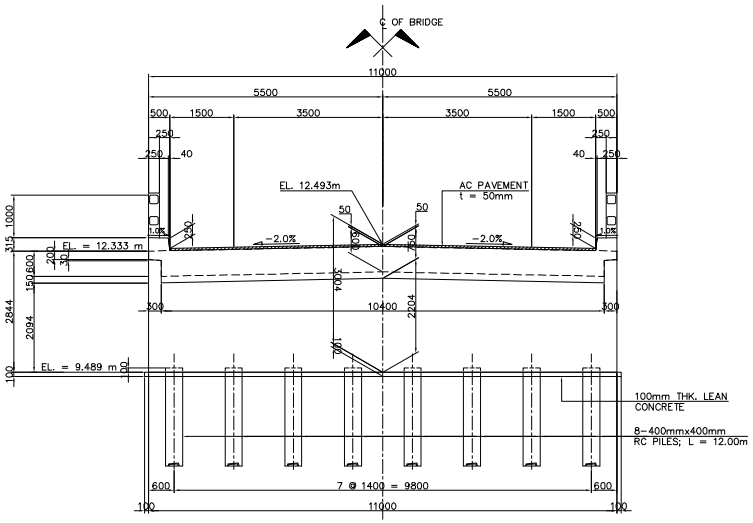


4 SECTION @ ABUT. A2
SCALE 1:200

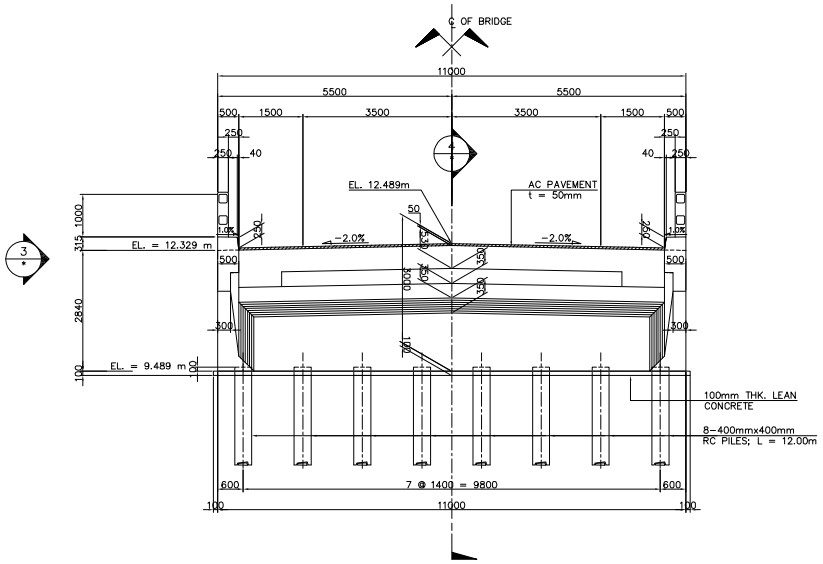
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-5 SNATE BRIDGE GENERAL VIEW	SCALE AS SHOWN	Drawing No. Sheet No.	2 - 2



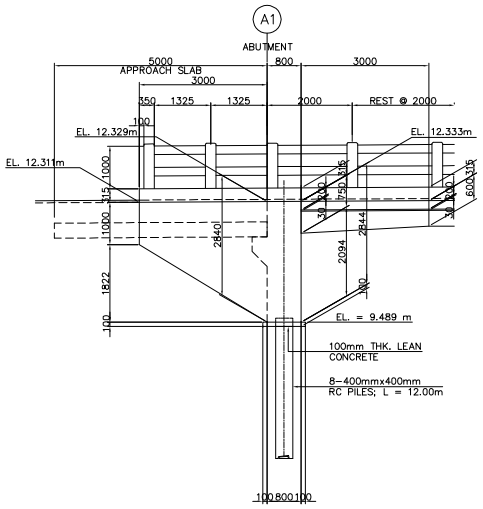
2 PLAN
SCALE 1:60



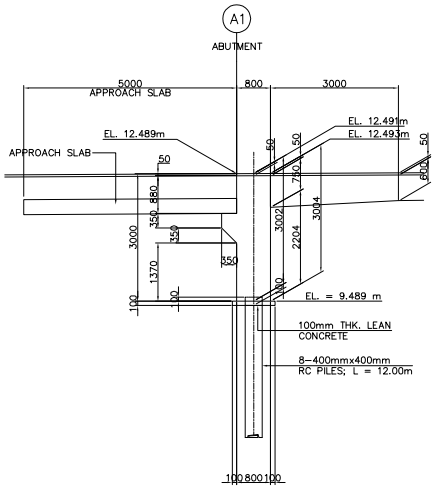
5 ELEVATION
SCALE 1:60



1 ELEVATION
SCALE 1:60

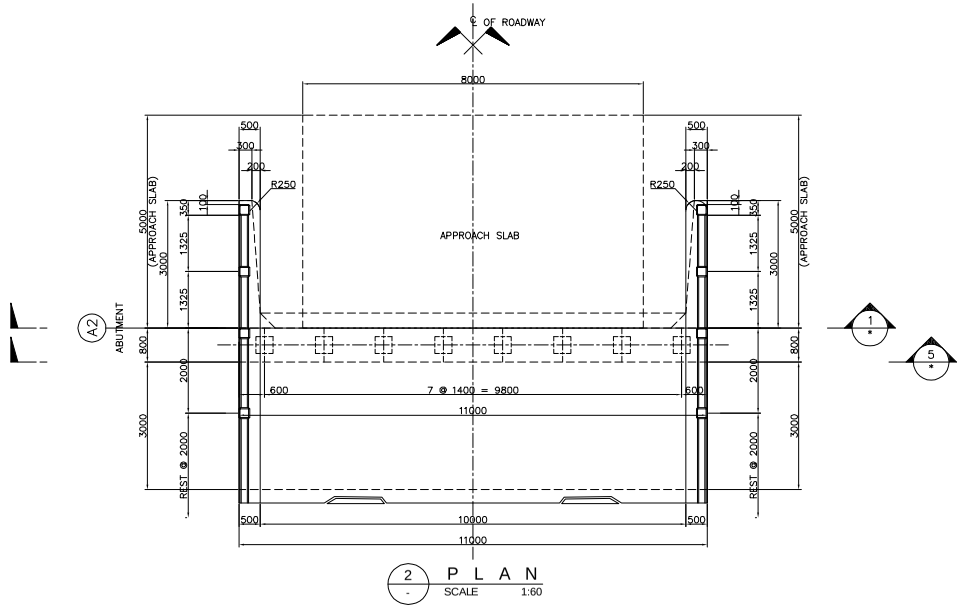


3 ELEVATION
SCALE 1:60

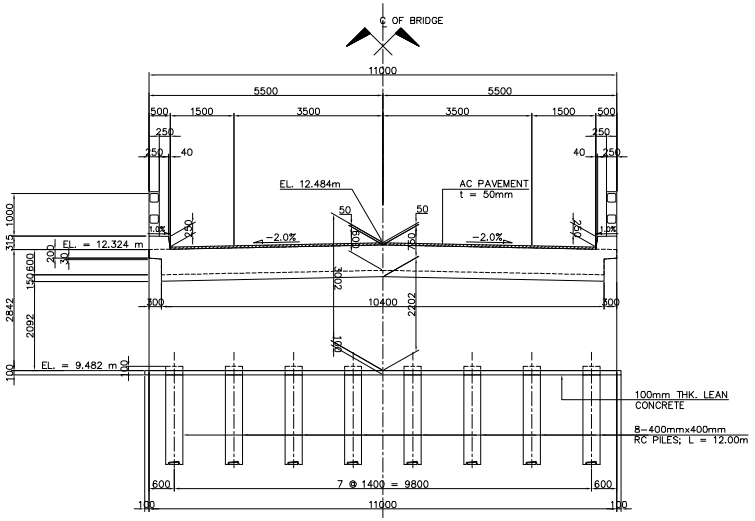


4 SECTION
SCALE 1:60

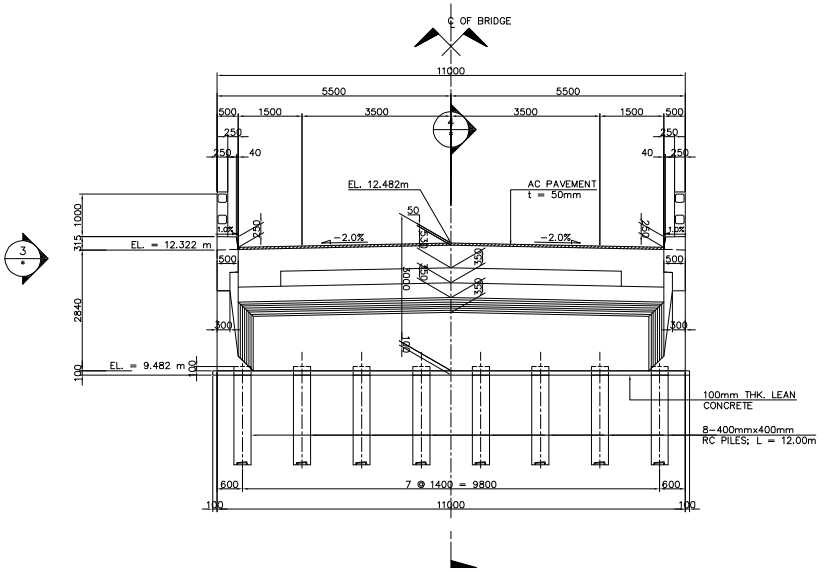
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-5 SNATE BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)	SCALE AS SHOWN	Drawing No. Sheet No.	2 - 3



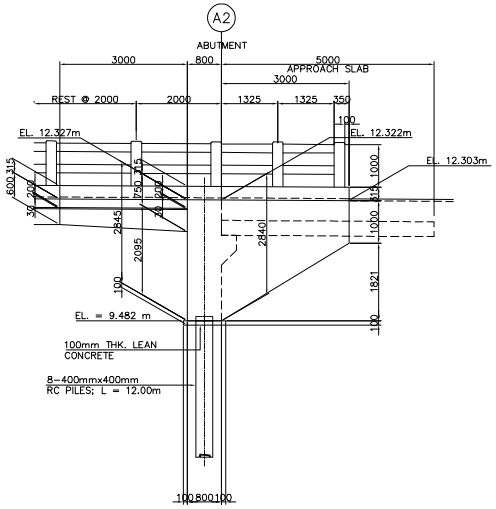
2 PLAN
SCALE 1:60



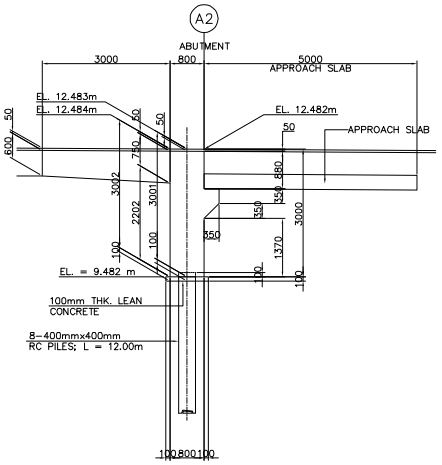
5 ELEVATION
SCALE 1:60



1 ELEVATION
SCALE 1:60

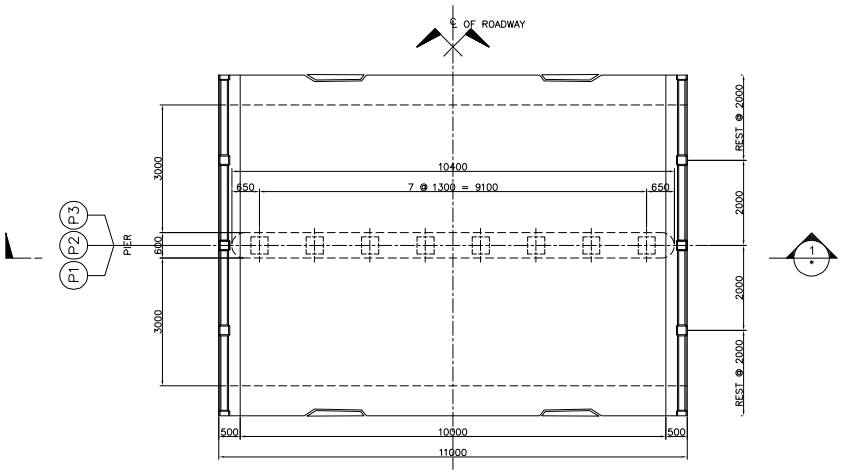


3 ELEVATION
SCALE 1:60



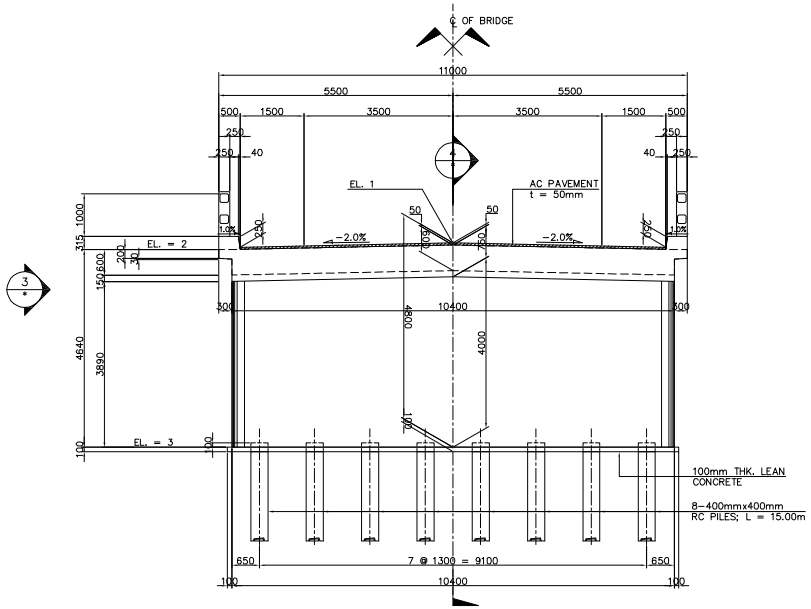
4 SECTION
SCALE 1:60

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-5 SNATE BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)	SCALE AS SHOWN	Drawing No.	2 - 4
					Sheet No.	

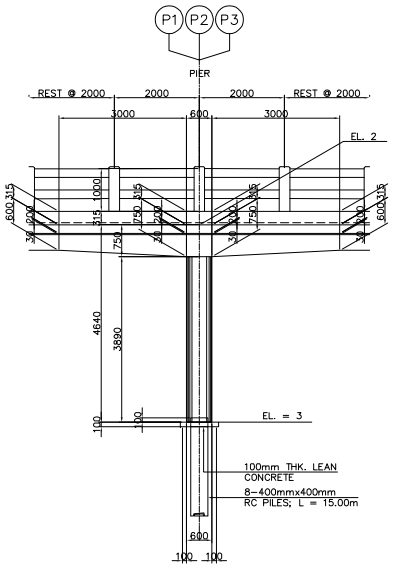


2 PLAN
SCALE 1:60

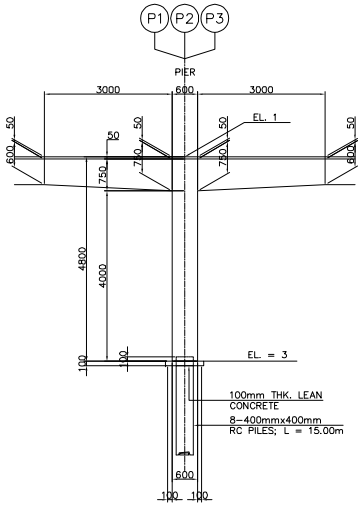
TABLE OF ELEVATIONS			
LOCATION	EL. 1	EL. 2	EL. 3
PIER 1	12.530m	12.370m	7.730m
PIER 2	12.543m	12.383m	7.743m
PIER 3	12.527m	12.367m	7.727m



1 ELEVATION
SCALE 1:60

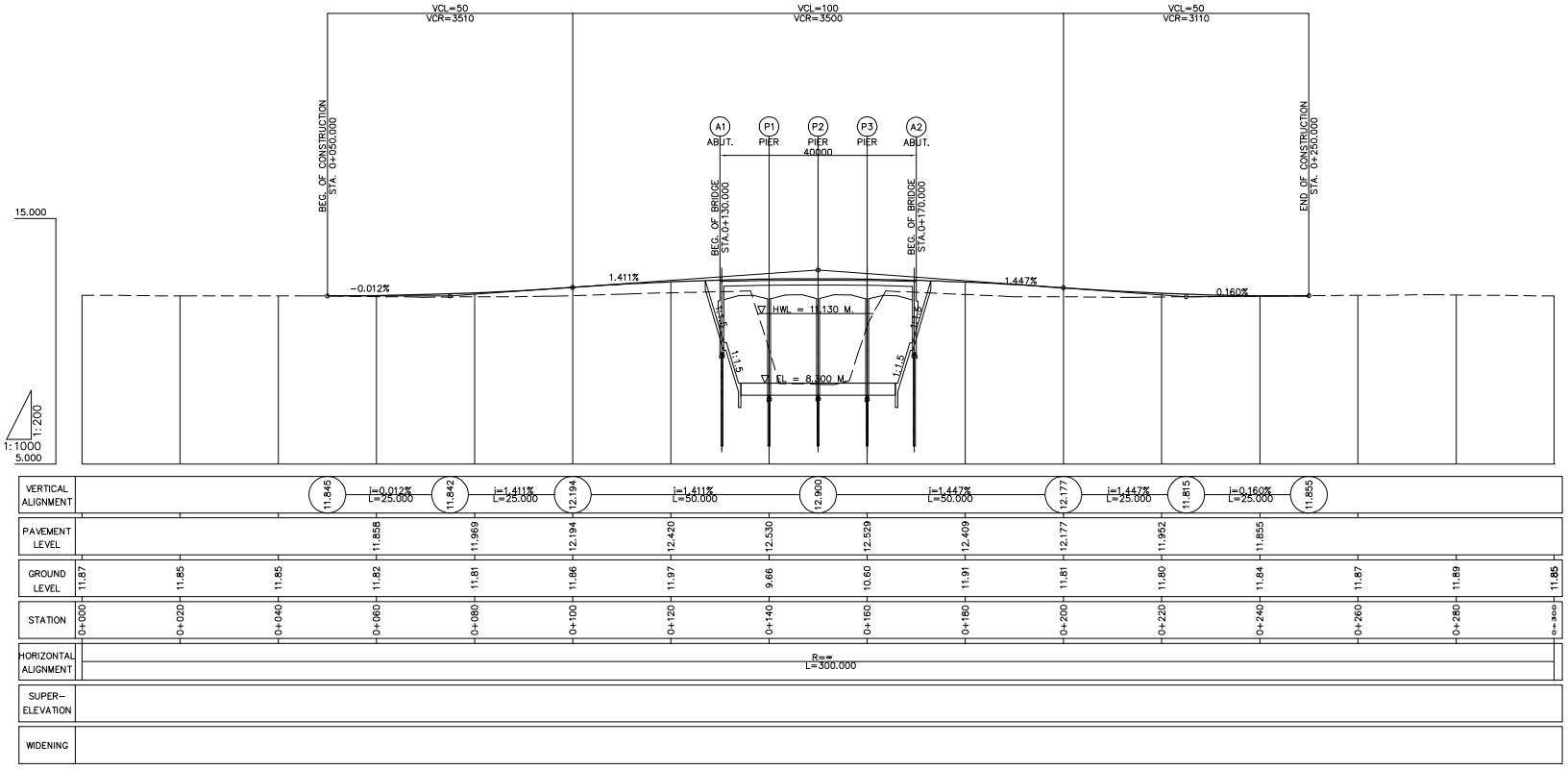


3 ELEVATION
SCALE 1:60



4 SECTION

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-5 SNATE BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3)	SCALE AS SHOWN	Drawing No. Sheet No.	2 - 5



MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	**JAPAN INTERNATIONAL COOPERATION AGENCY** KATAHIRA & ENGINEERS INTERNATIONAL	**TITLE :** BR-5 SNATE BRIDGE APPROACH ROAD PROFILE	**SCALE** H = 1:1000 V = 1:200	Drawing No.	2 - 6
					Sheet No.	

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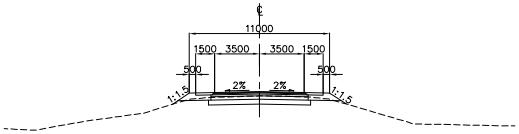

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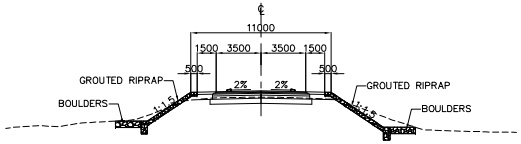

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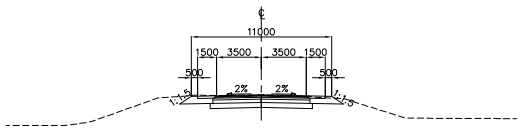

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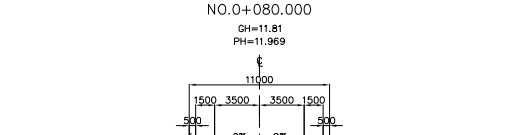

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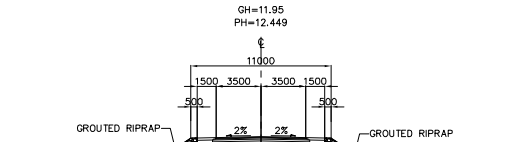

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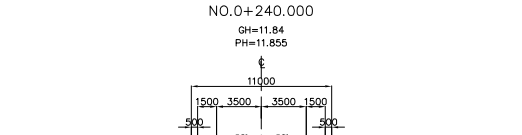

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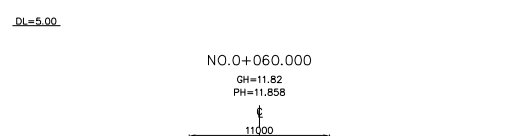

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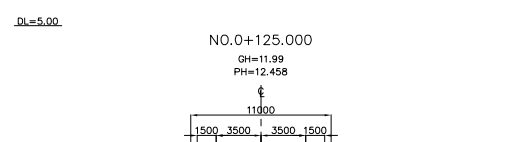

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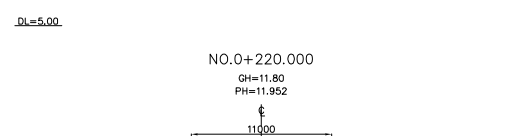

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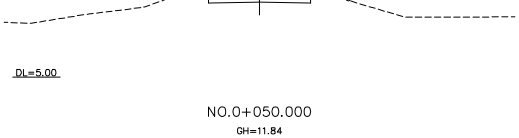

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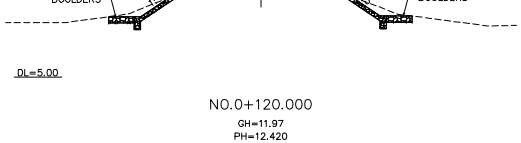

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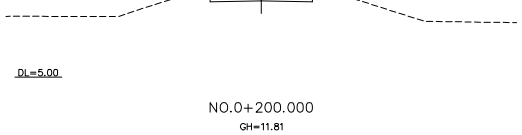

DL=5.00

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BR-5 SNATE BRIDGE APPROACH ROAD CROSS SECTIONS	SCALE 1 : 400	Drawing No. Sheet No.	2 - 7