

LIST OF DRAWINGS

GENERAL DRAWING			RR-RD-0125	PROFILE (25)
RR-GE-0001	LIST OF DRAWING		RR-RD-0126	PROFILE (26)
RR-GE-0002	ALIGNMENTS		RR-RD-0127	PROFILE (27)
ROAD DESIGN				
RR-RD-0001	PLAN (1)		RR-RD-0201	TYPICAL CROSS SECTION (1)
RR-RD-0002	PLAN (2)		RR-RD-0202	TYPICAL CROSS SECTION (2)
RR-RD-0003	PLAN (3)		RR-RD-0203	TYPICAL CROSS SECTION (3)
RR-RD-0004	PLAN (4)		RR-RD-0204	TYPICAL CROSS SECTION (4)
RR-RD-0005	PLAN (5)		RR-RD-0205	TYPICAL CROSS SECTION (5)
RR-RD-0006	PLAN (6)		RR-RD-0206	TYPICAL CROSS SECTION (6)
RR-RD-0007	PLAN (7)		RR-RD-0207	TYPICAL CROSS SECTION (7)
RR-RD-0008	PLAN (8)		RR-RD-0208	TYPICAL CROSS SECTION (8)
RR-RD-0009	PLAN (9)			
RR-RD-0010	PLAN (10)		RR-RD-0301	CROSS SECTION (1)
RR-RD-0011	PLAN (11)		RR-RD-0302	CROSS SECTION (2)
RR-RD-0012	PLAN (12)		RR-RD-0303	CROSS SECTION (3)
RR-RD-0013	PLAN (13)		RR-RD-0304	CROSS SECTION (4)
RR-RD-0014	PLAN (14)		RR-RD-0305	CROSS SECTION (5)
RR-RD-0015	PLAN (15)		RR-RD-0306	CROSS SECTION (6)
RR-RD-0016	PLAN (16)		RR-RD-0307	CROSS SECTION (7)
RR-RD-0017	PLAN (17)		RR-RD-0308	CROSS SECTION (8)
RR-RD-0018	PLAN (18)		RR-RD-0309	CROSS SECTION (9)
RR-RD-0019	PLAN (19)		RR-RD-0310	CROSS SECTION (10)
RR-RD-0020	PLAN (20)		RR-RD-0311	CROSS SECTION (11)
RR-RD-0021	PLAN (21)		RR-RD-0312	CROSS SECTION (12)
RR-RD-0022	PLAN (22)		RR-RD-0313	CROSS SECTION (13)
RR-RD-0023	PLAN (23)		RR-RD-0314	CROSS SECTION (14)
RR-RD-0024	PLAN (24)		RR-RD-0315	CROSS SECTION (15)
RR-RD-0025	PLAN (25)		RR-RD-0316	CROSS SECTION (16)
			RR-RD-0317	CROSS SECTION (17)
			RR-RD-0318	CROSS SECTION (18)
			RR-RD-0319	CROSS SECTION (19)
			RR-RD-0320	CROSS SECTION (20)
RR-RD-0101	PROFILE (1)			
RR-RD-0102	PROFILE (2)			
RR-RD-0103	PROFILE (3)			
RR-RD-0104	PROFILE (4)		RR-RD-0401	NO.1 IC PLAN
RR-RD-0105	PROFILE (5)		RR-RD-0402	NO.1 IC PROFILE
RR-RD-0106	PROFILE (6)		RR-RD-0403	NO.2 IC PLAN
RR-RD-0107	PROFILE (7)		RR-RD-0404	NO.2 IC PROFILE
RR-RD-0108	PROFILE (8)		RR-RD-0405	NO.3 IC PLAN
RR-RD-0109	PROFILE (9)		RR-RD-0406	NO.3 IC PROFILE
RR-RD-0110	PROFILE (10)			
RR-RD-0111	PROFILE (11)		RR-RD-0501	VU YEN ISLAND IC A RAMP PROFILE
RR-RD-0112	PROFILE (12)		RR-RD-0502	VU YEN ISLAND IC B RAMP PROFILE
RR-RD-0113	PROFILE (13)		RR-RD-0503	VU YEN ISLAND IC C RAMP PROFILE
RR-RD-0114	PROFILE (14)		RR-RD-0504	VU YEN ISLAND IC D RAMP PROFILE (1)
RR-RD-0115	PROFILE (15)		RR-RD-0505	VU YEN ISLAND IC D RAMP PROFILE (2)
RR-RD-0116	PROFILE (16)		RR-RD-0506	VU YEN ISLAND IC D RAMP PROFILE (3)
RR-RD-0117	PROFILE (17)		RR-RD-0601	VU YEN SOUTH IC A RAMP PROFILE
RR-RD-0118	PROFILE (18)		RR-RD-0602	VU YEN SOUTH IC B RAMP PROFILE
RR-RD-0119	PROFILE (19)		RR-RD-0603	VU YEN SOUTH IC C RAMP PROFILE
RR-RD-0120	PROFILE (20)		RR-RD-0604	VU YEN SOUTH IC D RAMP PROFILE
RR-RD-0121	PROFILE (21)			
RR-RD-0122	PROFILE (22)		RR-RD-0701	RETAINING WALL
RR-RD-0123	PROFILE (23)			
RR-RD-0124	PROFILE (24)			

PROJECT:
PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS:
JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE:
RING ROAD 3RD
LIST OF DRAWINGS

Rev No.

DRAWING No.	RR-RD-0001	SCALE	
-------------	------------	-------	--

IP	1	Y	2.469	2.469
KNo	1-1	Lc	534.942	
IA	31-54-28.078	CL	801.609	
R	1200.000	D	409.886	409.886
L	133.333	S	133.315	133.315
ΔR	0.617	W	343.226	
XM	66.660	A	400.000	400.000
X	133.292	SL	48.714	

IP	2	Y		
IA	5-57-05.615	Lc		
R	2500.000	D		
TL	129.960	S		
SL	3.376	W		
CL	259.686	A		

IP	4	Y	2.732	2.732
KNo	4-1	Lc	499.284	
IA	83-07-10.481	CL	661.284	
R	400.000	D	395.727	395.727
L	81.000	S	80.963	80.963
ΔR	0.683	W	355.241	
XM	40.486	A	180.000	180.000
X	80.917	SL	135.484	

IP	3	Y		
IA	24-05-34.573	Lc		
R	2500.000	D		
TL	533.511	S		
SL	56.293	W		
CL	1051.253	A		

IP	5	Y		
IA	12-05-22.950	Lc		
R	5000.000	D		
TL	529.479	S		
SL	27.957	W		
CL	1055.026	A		

IP	6	Y		
IA	18-59-54.012	Lc		
R	3000.000	D		
TL	501.983	S		
SL	41.708	W		
CL	994.751	A		

IP	7	Y		
IA	16-16-19.000	Lc		
R	2500.000	D		
TL	357.404	S		
SL	25.418	W		
CL	709.998	A		

IP	8	Y		
IA	0-46-49.254	Lc		
R	9000.000	D		
TL	61.289	S		
SL	0.209	W		
CL	122.577	A		

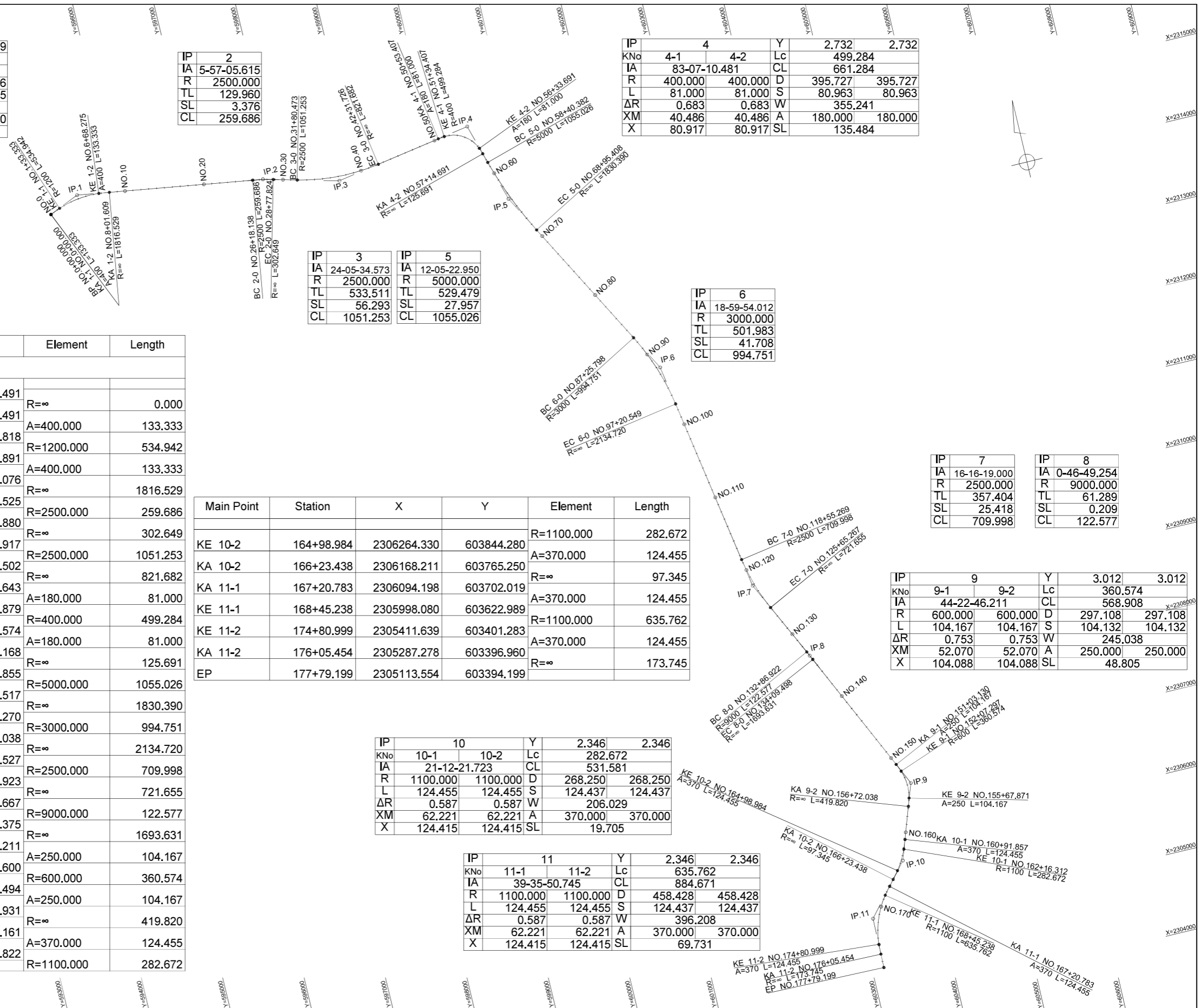
IP	9	Y	3.012	3.012
KNo	9-1	Lc	360.574	
IA	44-22-46.211	CL	568.908	
R	600.000	D	297.108	297.108
L	104.167	S	104.132	104.132
ΔR	0.753	W	245.038	
XM	52.070	A	250.000	250.000
X	104.088	SL	48.805	


IP	10	Y	2.346	2.346
KNo	10-1	Lc	282.672	
IA	21-12-21.723	CL	531.581	
R	1100.000	D	268.250	268.250
L	124.455	S	124.437	124.437
ΔR	0.587	W	206.029	
XM	62.221	A	370.000	370.000
X	124.415	SL	19.705	

IP	11	Y	2.346	2.346
KNo	11-1	Lc	635.762	
IA	39-35-50.745	CL	884.671	
R	1100.000	D	458.428	458.428
L	124.455	S	124.437	124.437
ΔR	0.587	W	396.208	
XM	62.221	A	370.000	370.000
X	124.415	SL	69.731	

Main Point	Station	X	Y	Element	Length
20150714 RR3					
BP	0+00.000	2316795.584	595363.491	R=∞	0.000
KA 1-1	0+00.000	2316795.584	595363.491	A=400.000	133.333
KE 1-1	1+33.333	2316846.213	595486.818	R=1200.000	534.942
KE 1-2	6+68.275	2316914.787	596012.891	A=400.000	133.333
KA 1-2	8+01.609	2316897.464	596145.076	R=∞	1816.529
BC 2-0	26+18.138	2316628.111	597941.525	R=2500.000	259.686
EC 2-0	28+77.824	2316576.348	598195.880	R=∞	302.649
BC 3-0	31+80.473	2316500.679	598488.917	R=2500.000	1051.253
EC 3-0	42+31.726	2316456.394	599531.502	R=∞	821.682
KA 4-1	50+53.407	2316593.625	600341.643	A=180.000	81.000
KE 4-1	51+34.407	2316604.446	600421.879	R=400.000	499.284
KE 4-2	56+33.691	2316357.086	600818.574	A=180.000	81.000
KA 4-2	57+14.691	2316280.275	600844.168	R=∞	125.691
BC 5-0	58+40.382	2316159.757	600879.855	R=5000.000	1055.026
EC 5-0	68+95.408	2315187.125	601283.517	R=∞	1830.390
BC 6-0	87+25.798	2313579.833	602159.270	R=3000.000	994.751
EC 6-0	97+20.549	2312644.061	602483.038	R=∞	2134.720
BC 7-0	118+55.269	2310539.149	602838.527	R=2500.000	709.998
EC 7-0	125+65.267	2309865.115	603053.923	R=∞	721.655
BC 8-0	132+86.922	2309215.713	603368.667	R=9000.000	122.577
EC 8-0	134+09.498	2309105.048	603421.375	R=∞	1693.631
KA 9-1	151+03.130	2307571.067	604139.211	A=250.000	104.167
KE 9-1	152+07.297	2307475.514	604180.600	R=600.000	360.574
KE 9-2	155+67.871	2307120.792	604198.494	A=250.000	104.167
KA 9-2	156+72.038	2307021.559	604166.931	R=∞	419.820
KA 10-1	160+91.857	2306625.337	604028.161	A=370.000	124.455
KE 10-1	162+16.312	2306508.691	603984.822	R=1100.000	282.672

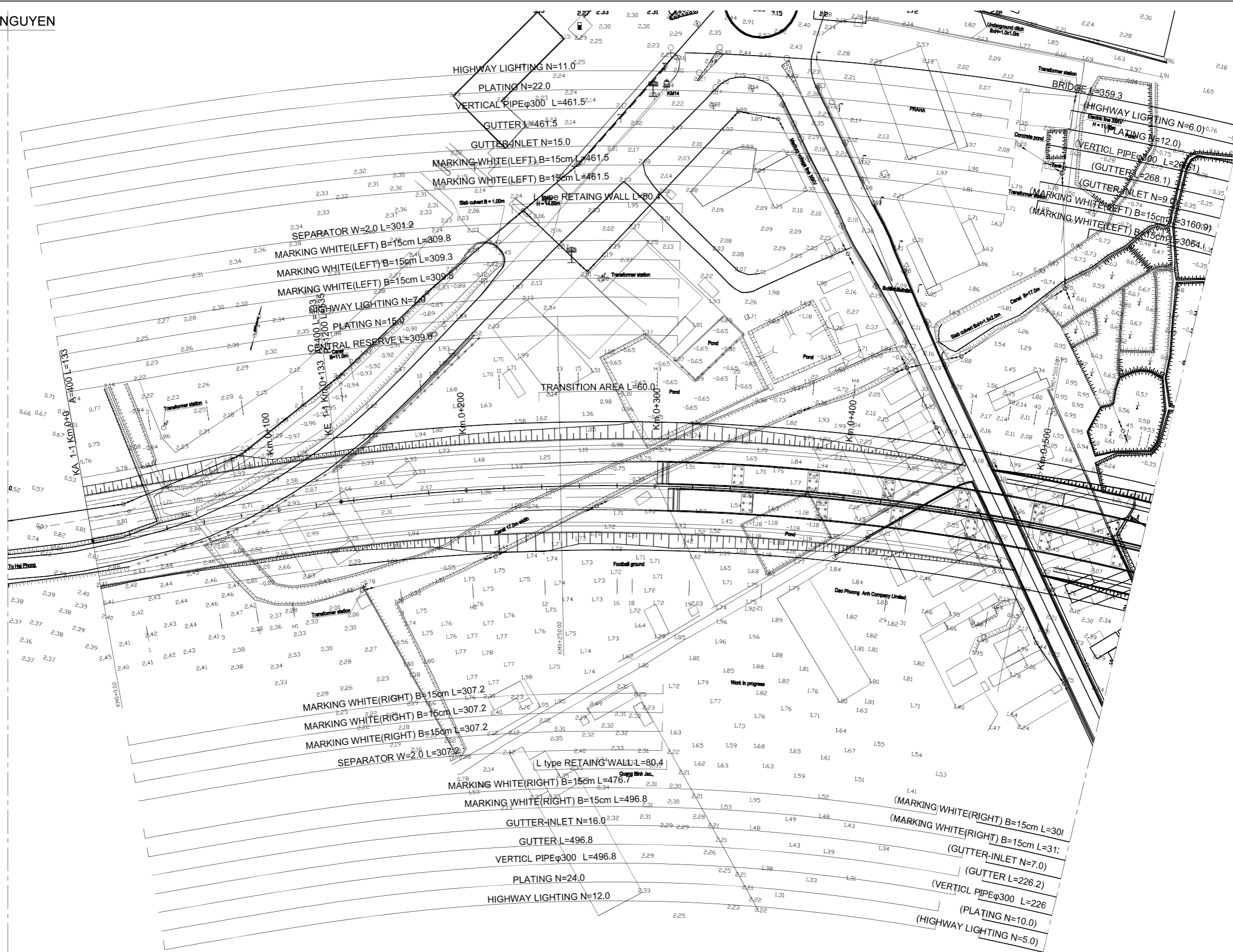
Main Point	Station	X	Y	Element	Length
KE 10-2	164+98.984	2306264.330	603844.280	R=1100.000	282.672
KA 10-2	166+23.438	2306168.211	603765.250	A=370.000	124.455
KA 11-1	167+20.783	2306094.198	603702.019	R=∞	97.345
KE 11-1	168+45.238	2305998.080	603622.989	A=370.000	124.455
KE 11-2	174+80.999	2305411.639	603401.283	R=1100.000	635.762
KA 11-2	176+05.454	2305287.278	603396.960	A=370.000	124.455
EP	177+79.199	2305113.554	603394.199	R=∞	173.745



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		DRAWING TITLE: RING ROAD 3RD ALIGNMENTS		Rev No.
		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.		DRAWING No. RR-GE-0002	SCALE S=1:50,000	

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

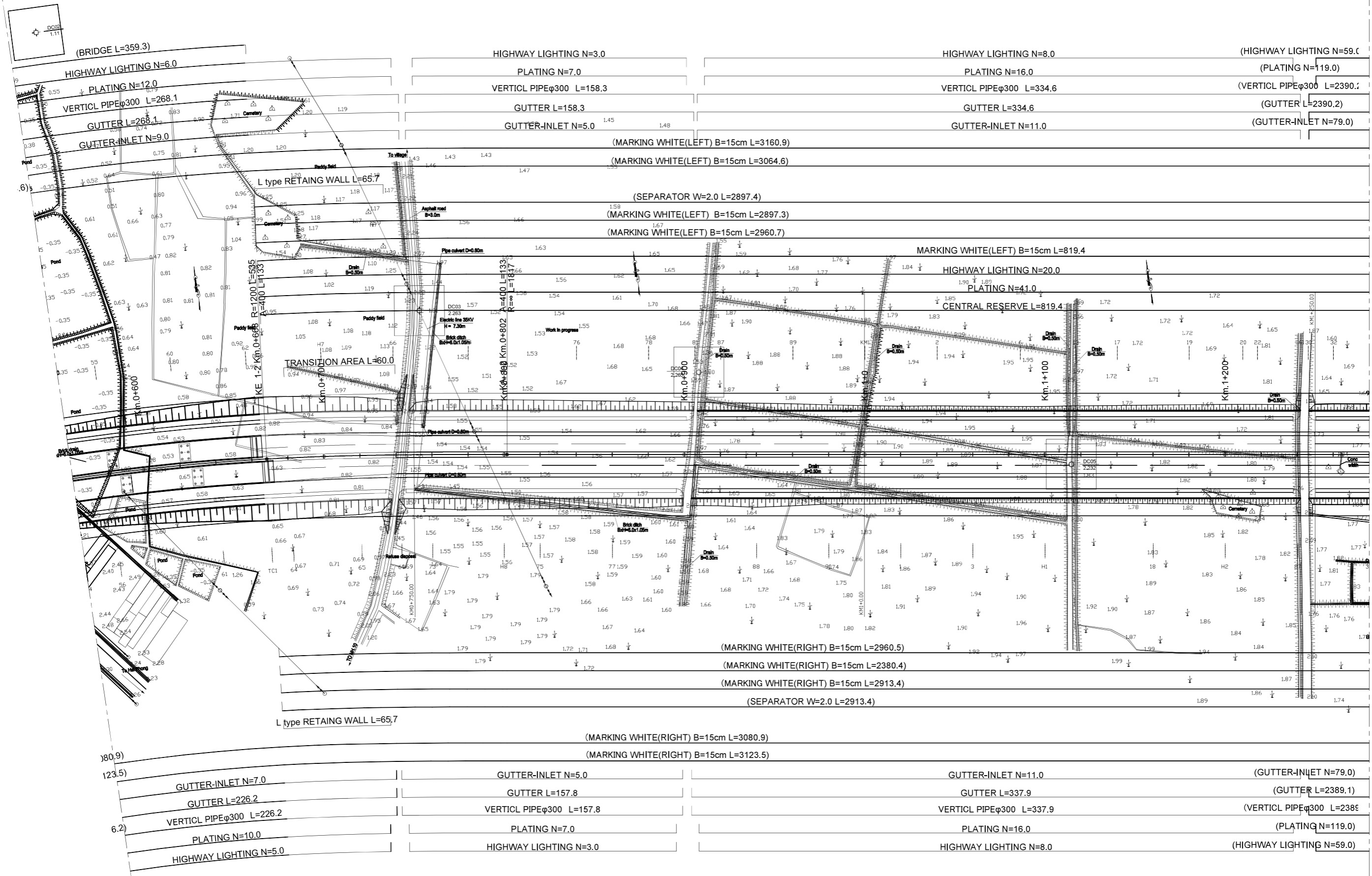
DRAWING TITLE: RING ROAD 3RD PLAN(1)

Rev No.

DRAWING No.	RR-RD-0001	SCALE	S=1:2000
-------------	------------	-------	----------

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(2)
 DRAWING No. RR-RD-0002 SCALE S=1:2000

Rev No.

TO THUY NGUYEN

TO HAI AN

BoX Culvert(B3.0 * H2.0) L=60.00
Km.1+500.000



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF
 CHODAI CO.,LTD.
 ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
 ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
PLAN(3)
 DRAWING No. RR-RD-0003 SCALE S=1:2000
 Rev No.

TO THUY NGUYEN

TO HAI AN

Box Culvert(B0.5 * H0.6) L=58.00
Km.2+470.000

HIGHWAY LIGHTING N=59.0

PLATING N=119.0

VERTICAL PIPEφ300 L=2390.2

GUTTER L=2390.2

GUTTER-INLET N=79.0

MARKING WHITE(LEFT) B=15cm L=3160.9

MARKING WHITE(LEFT) B=15cm L=3064.6

SEPARATOR W=2.0 L=2897.4

MARKING WHITE(LEFT) B=15cm L=2897.3

MARKING WHITE(LEFT) B=15cm L=2960.7

MARKING WHITE(LEFT) B=15cm L=977.0

HIGHWAY LIGHTING N=24.0

PLATING N=48.0

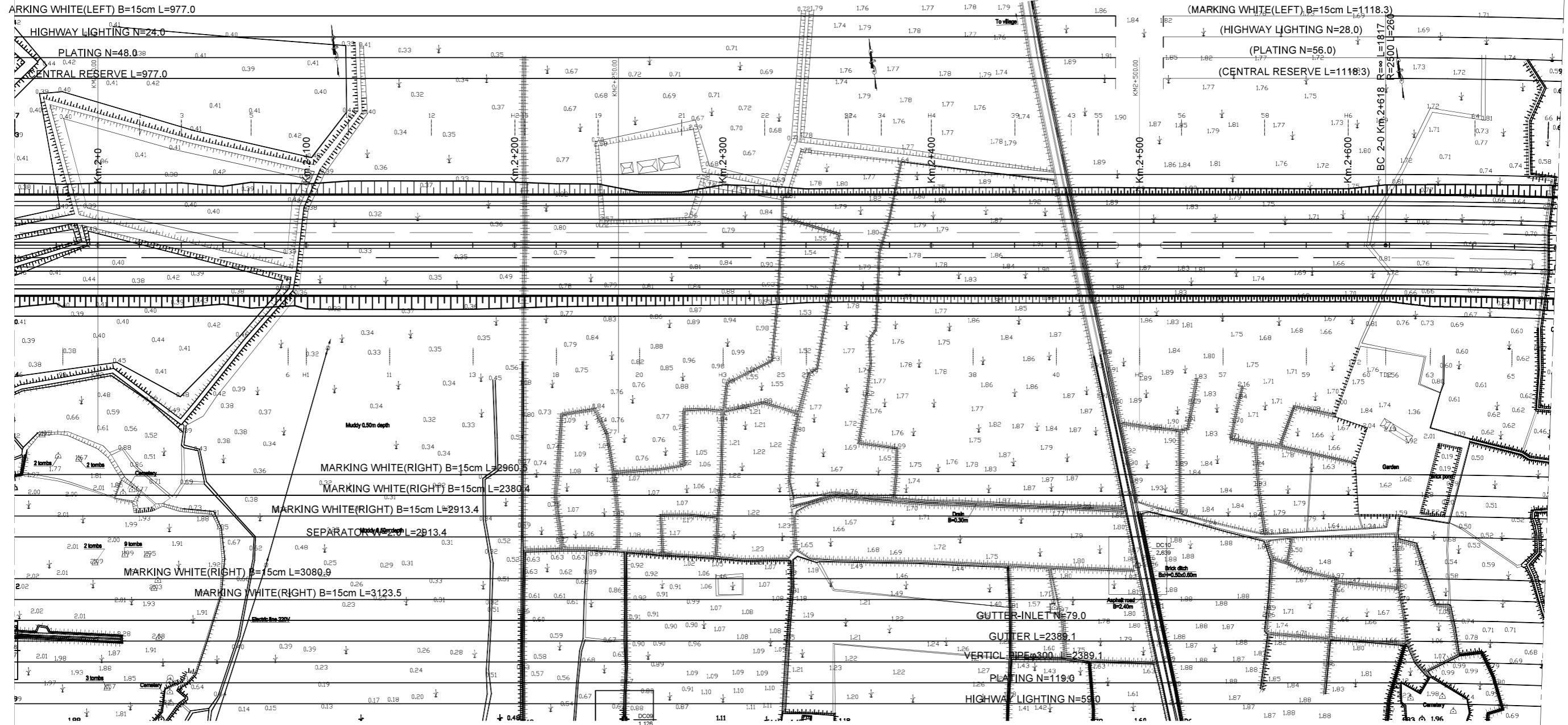
CENTRAL RESERVE L=977.0

(MARKING WHITE(LEFT) B=15cm L=1118.3)

(HIGHWAY LIGHTING N=28.0)

(PLATING N=56.0)

(CENTRAL RESERVE L=1118.3)



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
PLAN(4)
DRAWING No. RR-RD-0004 SCALE S=1:2000

Rev No.

TO THUY NGUYEN

TO HAI AN

Box Culvert (B14.0 * H2.0) L=60.00
Km.2+735.000

(HIGHWAY LIGHTING N=59.0)

(PLATING N=119.0)

(VERTICL PIPEφ300 L=2390.2)

(GUTTER L=2390.2)

(GUTTER-INLET N=79.0)

(MARKING WHITE(LEFT) B=15cm L=3160.9)

(MARKING WHITE(LEFT) B=15cm L=3064.6)

(SEPARATOR W=2.0 L=2897.4)

(MARKING WHITE(LEFT) B=15cm L=2897.3)

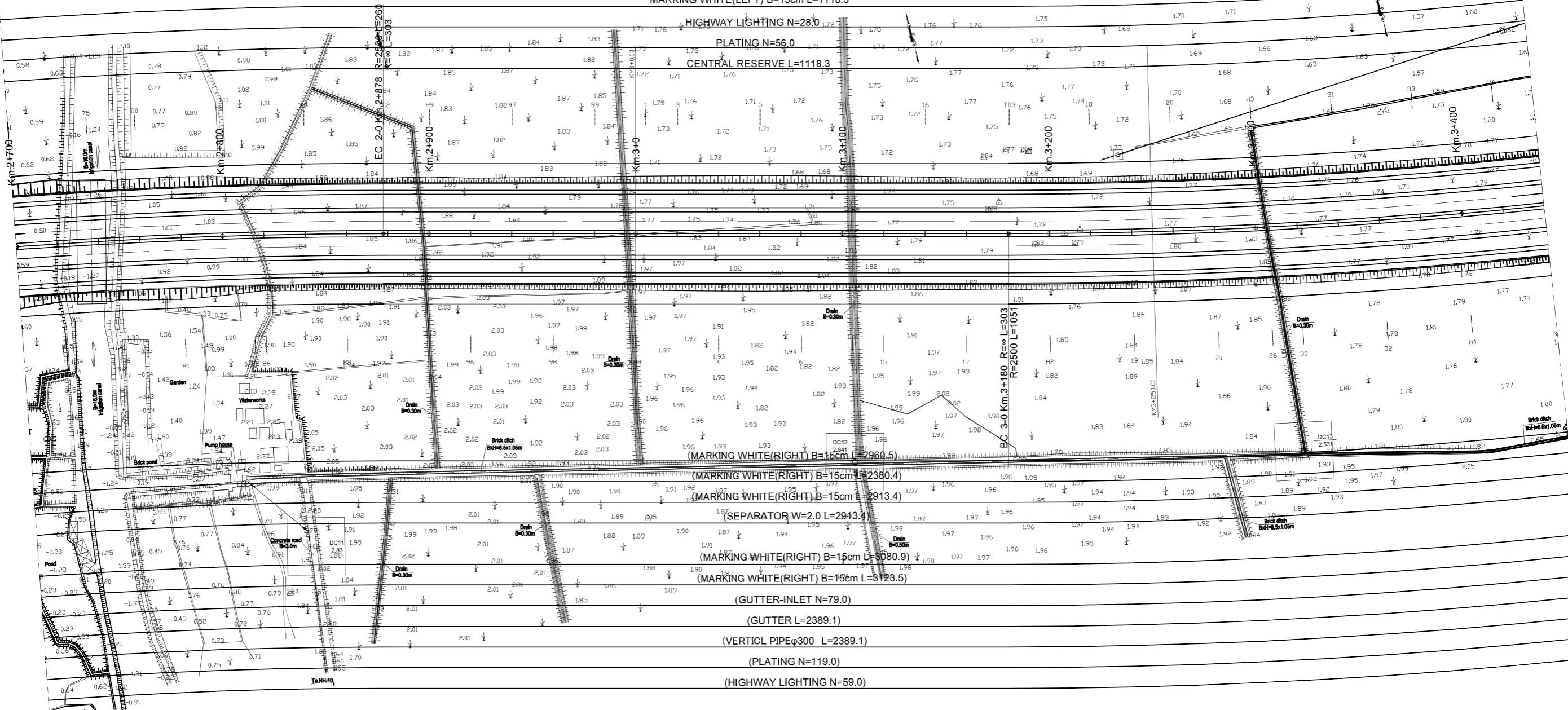
(MARKING WHITE(LEFT) B=15cm L=2960.7)

MARKING WHITE(LEFT) B=15cm L=1118.3

HIGHWAY LIGHTING N=280

PLATING N=56.0

CENTRAL RESERVE L=1118.3



MARKING WHITE(RIGHT) B=15cm L=2960.5

MARKING WHITE(RIGHT) B=15cm L=2380.4

MARKING WHITE(RIGHT) B=15cm L=2913.4

(SEPARATOR W=2.0 L=2913.4)

(MARKING WHITE(RIGHT) B=15cm L=3080.9)

(MARKING WHITE(RIGHT) B=15cm L=3123.5)

(GUTTER-INLET N=79.0)

(GUTTER L=2389.1)

(VERTICL PIPEφ300 L=2389.1)

(PLATING N=119.0)

(HIGHWAY LIGHTING N=59.0)

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

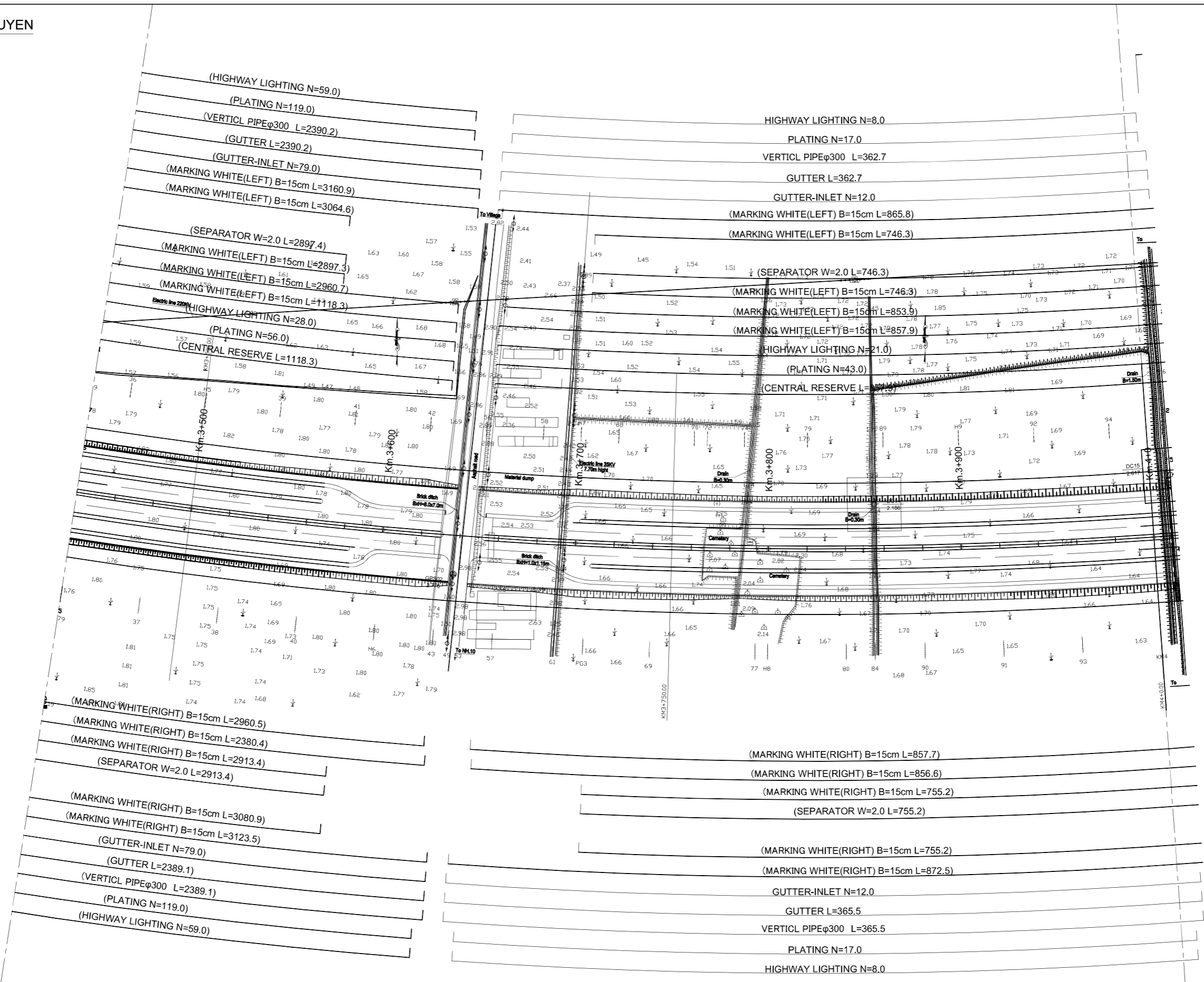


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
PLAN(5)
DRAWING No. RR-RD-0005 SCALE S=1:2000 Rev No.

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



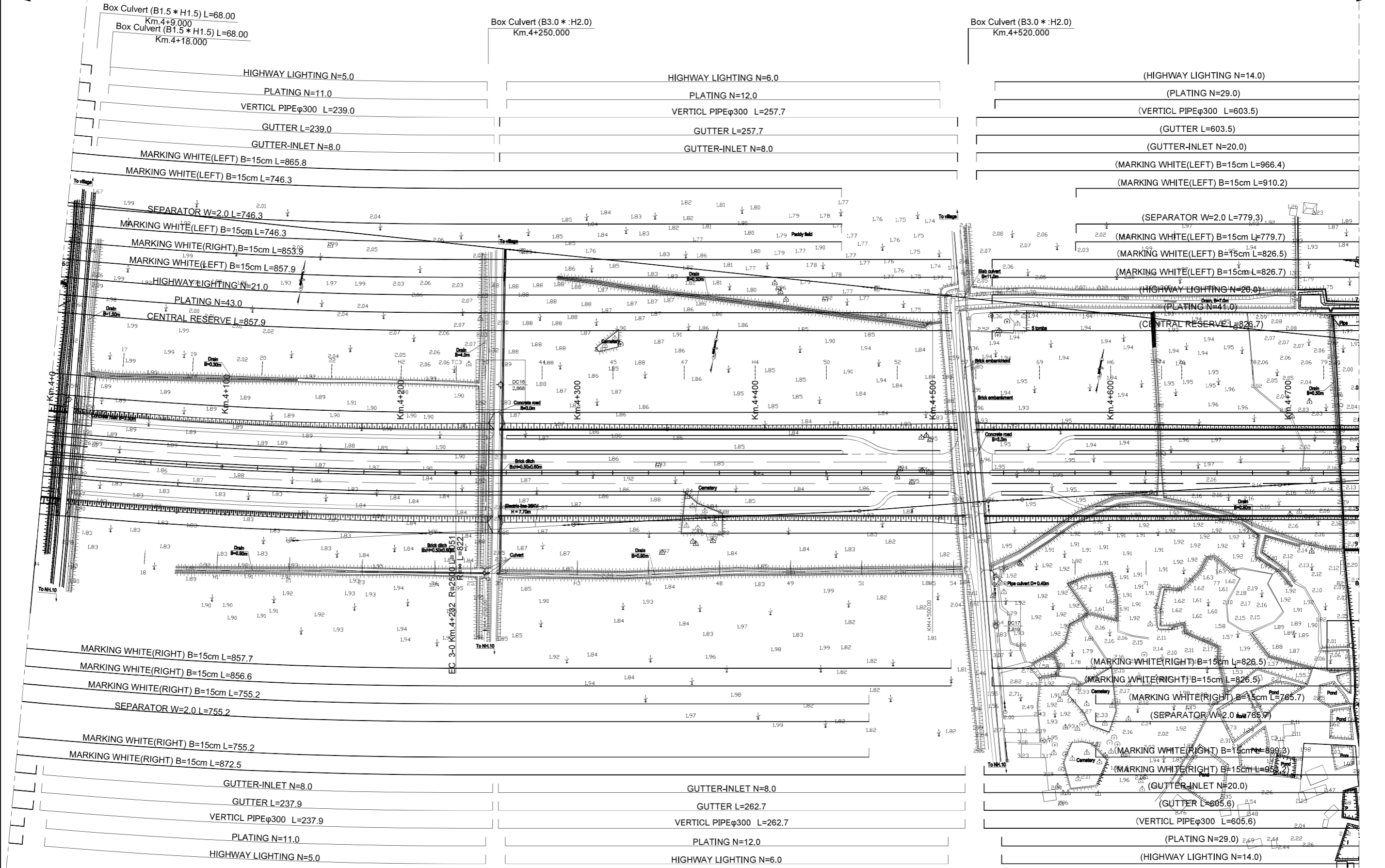
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(6)
 DRAWING No. RR-RD-0006 SCALE S=1:2000

Rev No.

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

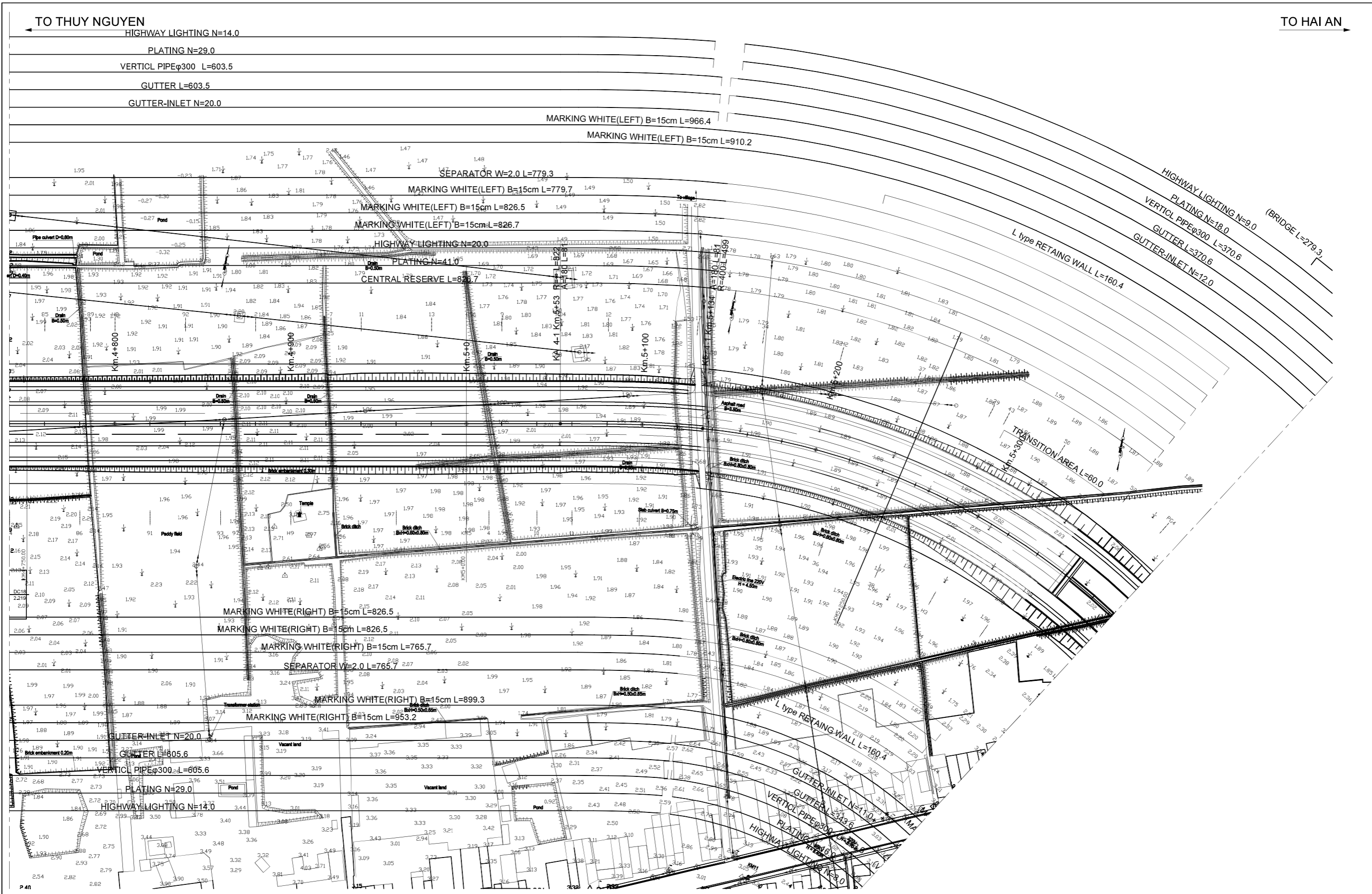


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(7)

DRAWING No.	RR-RD-0007	SCALE	S=1:2000
-------------	------------	-------	----------

Rev No.



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

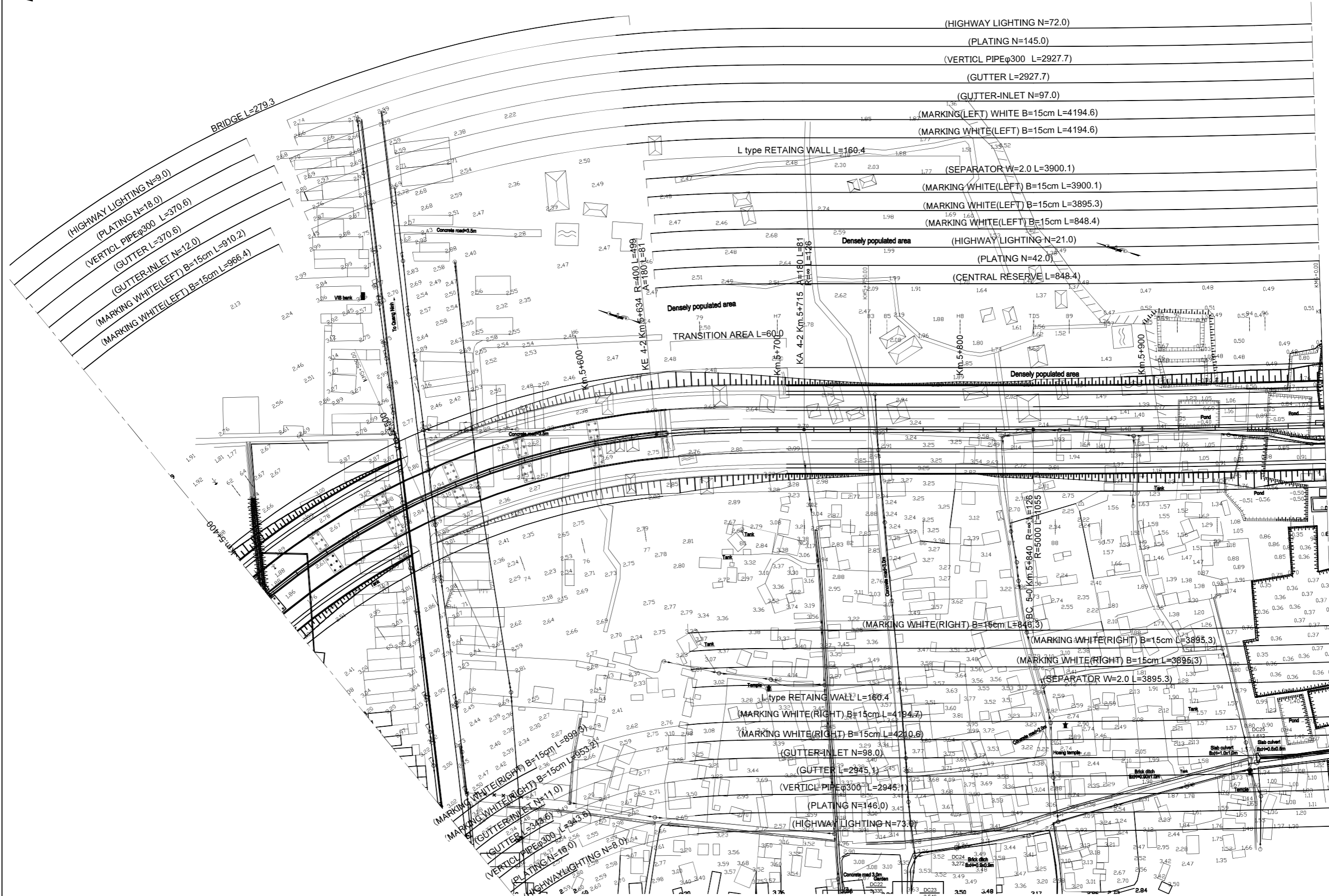


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE:		RING ROAD 3RD PLAN(8)		Rev No.
DRAWING No.	RR-RD-0008	SCALE	S=1:2000	

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(9)

DRAWING No.	RR-RD-0009	SCALE	S=1:2000
-------------	------------	-------	----------

Rev No.

TO THUY NGUYEN

TO HAI AN

(HIGHWAY LIGHTING N=72.0)

(PLATING N=145.0)

(VERTICAL PIPE φ300 L=2927.7)

(GUTTER L=2927.7)

(GUTTER-INLET N=97.0)

(MARKING WHITE(LEFT) B=15cm L=4194.6)

(MARKING WHITE(LEFT) B=15cm L=4194.6)

(SEPARATOR W=2.0 L=3900.1)

(MARKING WHITE(LEFT) B=15cm L=3900.1)

(MARKING WHITE(LEFT) B=15cm L=3895.3)

MARKING WHITE(LEFT) B=15cm L=848.4

HIGHWAY LIGHTING N=21.0

PLATING N=42.0

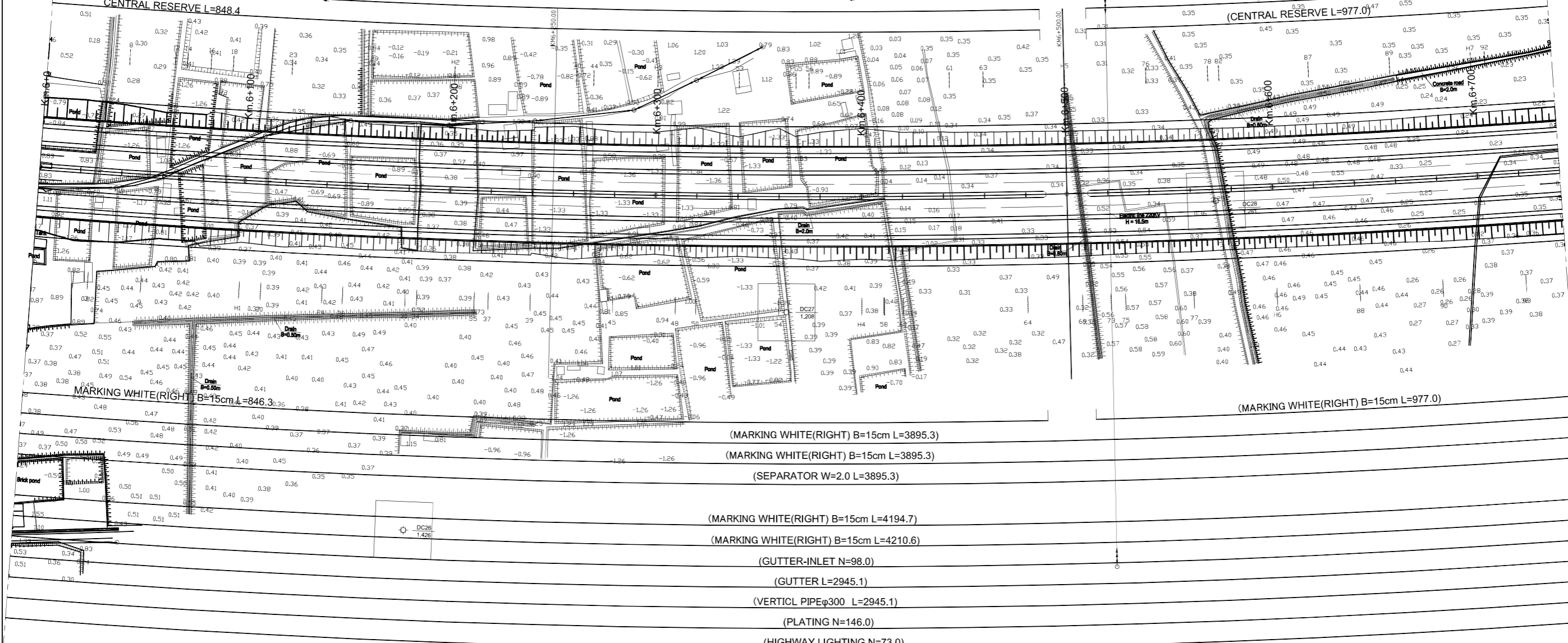
CENTRAL RESERVE L=848.4

(MARKING WHITE(LEFT) B=15cm L=977.0)

(HIGHWAY LIGHTING N=24.0)

(PLATING N=48.0)

(CENTRAL RESERVE L=977.0)



(MARKING WHITE(RIGHT) B=15cm L=3895.3)

(MARKING WHITE(RIGHT) B=15cm L=3895.3)

(SEPARATOR W=2.0 L=3895.3)

(MARKING WHITE(RIGHT) B=15cm L=4194.7)

(MARKING WHITE(RIGHT) B=15cm L=4210.6)

(GUTTER-INLET N=98.0)

(GUTTER L=2945.1)

(VERTICAL PIPE φ300 L=2945.1)

(PLATING N=146.0)

(HIGHWAY LIGHTING N=73.0)

(MARKING WHITE(RIGHT) B=15cm L=977.0)

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



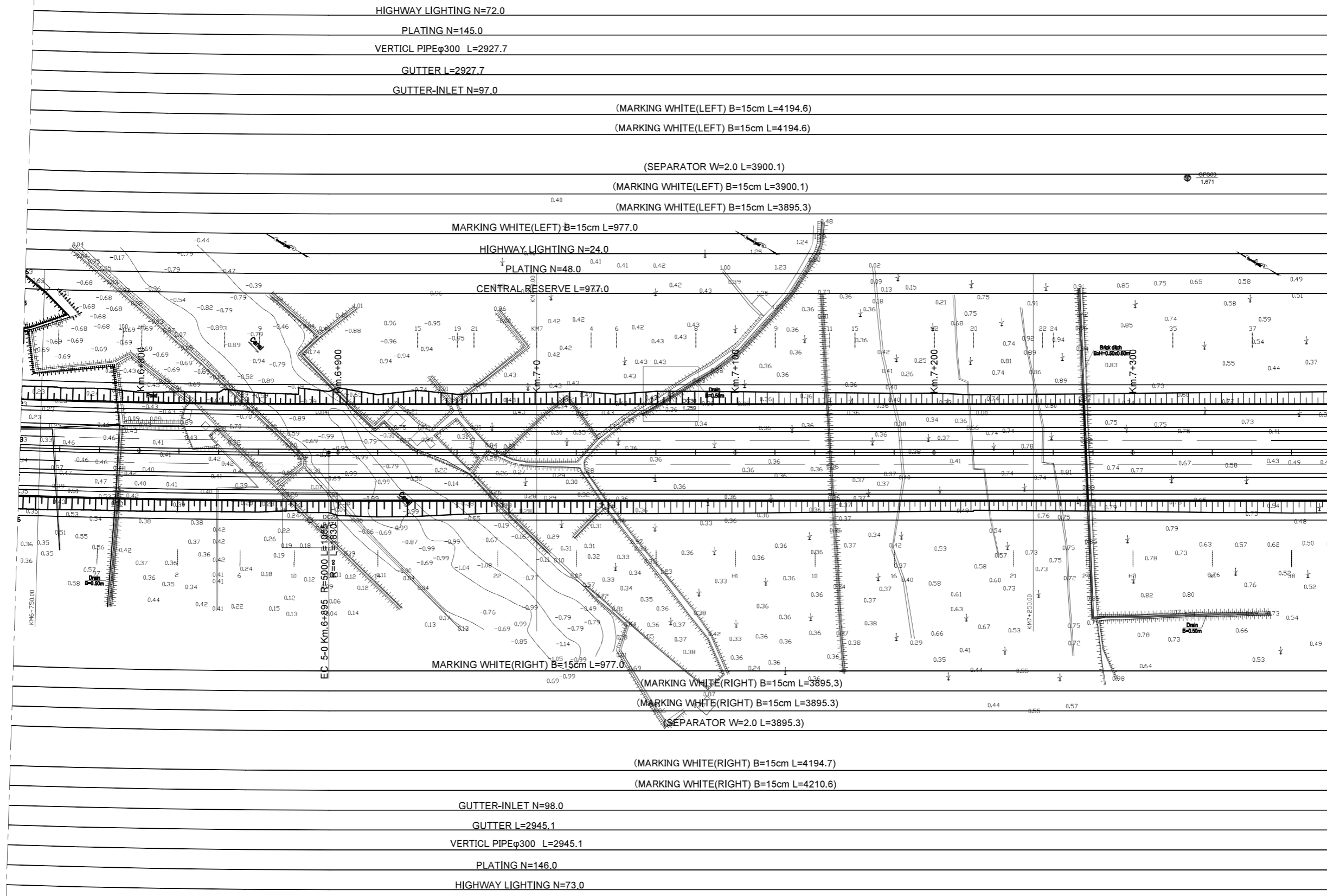
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(10)
 DRAWING No. RR-RD-0010 SCALE S=1:2000 Rev No.

TO THUY NGUYEN

TO HAI AN

BOX CUIVERT (BU.5 * :HU.6) L=59.00
Km.7+275.000



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(11)
DRAWING No. RR-RD-0011 SCALE S=1:2000

Rev No.

TO THUY NGUYEN

TO HAI AN

Box Culvert (B0.5 * H0.6) L=68.0
Km.8+100.000

(HIGHWAY LIGHTING N=72.0)

(PLATING N=145.0)

(VERTICL PIPEφ300 L=2927.7)

(GUTTER L=2927.7)

(GUTTER-INLET N=97.0)

MARKING WHITE(LEFT) B=15cm L=4194.6

MARKING WHITE(LEFT) B=15cm L=4194.6

SEPARATOR W=2.0 L=3900.1

MARKING WHITE(LEFT) B=15cm L=3900.1

MARKING WHITE(LEFT) B=15cm L=3895.3

(MARKING WHITE(LEFT) B=15cm L=977.0)

(MARKING WHITE(LEFT) B=15cm L=1992.3)

(HIGHWAY LIGHTING N=24.0)

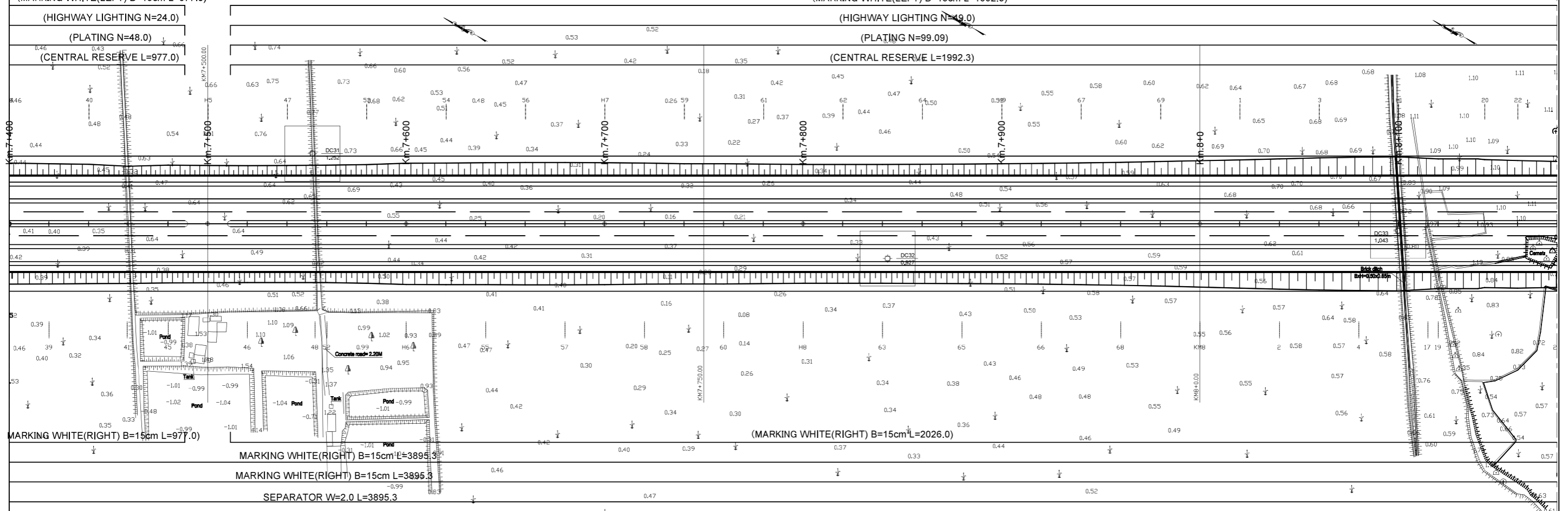
(HIGHWAY LIGHTING N=49.0)

(PLATING N=48.0)

(PLATING N=99.0)

(CENTRAL RESERVE L=977.0)

(CENTRAL RESERVE L=1992.3)



(GUTTER L=2945.1)

(VERTICL PIPEφ300 L=2945.1)

(PLATING N=146.0)

(HIGHWAY LIGHTING N=73.0)

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(12)

DRAWING No.	RR-RD-0012	SCALE	S=1:2000
-------------	------------	-------	----------

Rev No.

TO THUY NGUYEN

TO HAI AN

Box Culvert (B3.0 * H2.0) L=60.00
Km.8+550.000

(HIGHWAY LIGHTING N=72.0)

(HIGHWAY LIGHTING N=31.0)

(PLATING N=145.0)

(PLATING N=62.0)

(VERTICAL PIPE φ300 L=2927.7)

(VERTICAL PIPE φ300 L=1260.4)

(GUTTER L=2927.7)

(GUTTER L=1260.4)

(GUTTER-INLET N=97.0)

(GUTTER-INLET N=42.0)

(MARKING WHITE(LEFT) B=15cm L=4194.6)

(MARKING WHITE(LEFT) B=15cm L=4194.6)

(SEPARATOR W=2.0 L=3900.1)

(MARKING WHITE(LEFT) B=15cm L=3900.1)

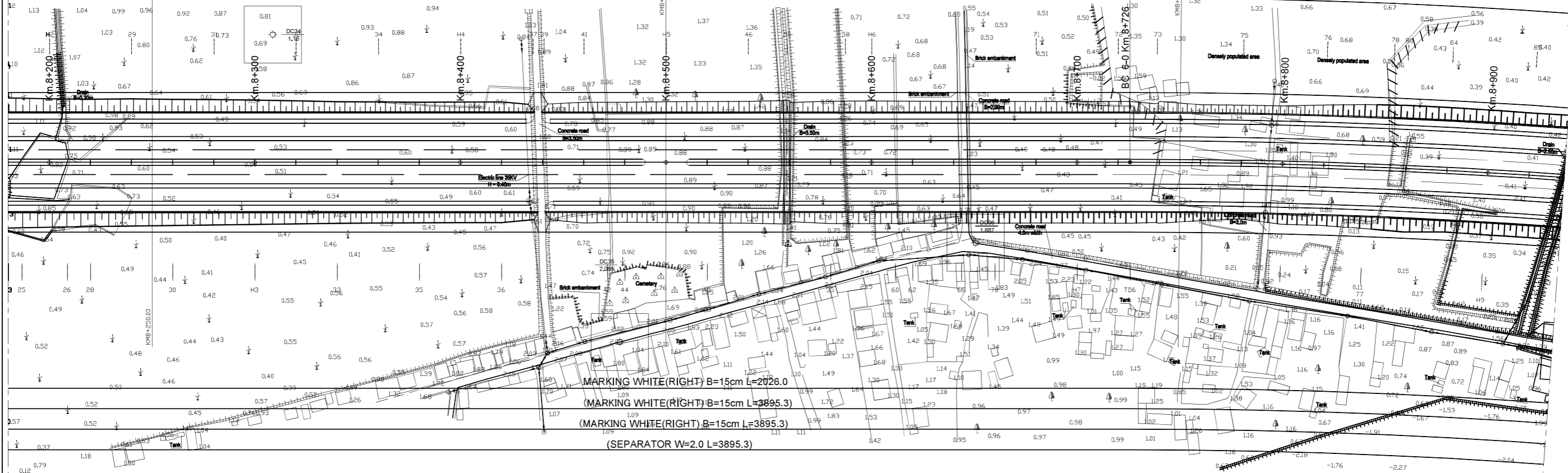
(MARKING WHITE(LEFT) B=15cm L=3895.3)

MARKING WHITE(LEFT) B=15cm L=1992.3

HIGHWAY LIGHTING N=49.0

PLATING N=99.0

CENTRAL RESERVE L=1992.3



MARKING WHITE(RIGHT) B=15cm L=2026.0

(MARKING WHITE(RIGHT) B=15cm L=3895.3)

(MARKING WHITE(RIGHT) B=15cm L=3895.3)

(SEPARATOR W=2.0 L=3895.3)

(MARKING WHITE(RIGHT) B=15cm L=4194.7)

(MARKING WHITE(RIGHT) B=15cm L=4210.6)

(GUTTER-INLET N=98.0)

(GUTTER L=2945.1)

(VERTICAL PIPE φ300 L=2945.1)

(PLATING N=146.0)

(HIGHWAY LIGHTING N=73.0)

(GUTTER-INLET N=42.0)

(GUTTER L=1258.8)

(VERTICAL PIPE φ300 L=1258.8)

(PLATING N=62.0)

(HIGHWAY LIGHTING N=31.0)

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(13)
DRAWING No. RR-RD-0013 SCALE S=1:2000 Rev No.

TO THUY NGUYEN

TO HAI AN

Box Culvert (B0.5 * H0.6) L=61.00
Km.8+940.000

Box Culvert (B0.5 * H2.0) L=60.00
Km.9+263.000

(BRIDGE L=319.3)

HIGHWAY LIGHTING N=31.0
PLATING N=62.0
VERTICAL PIPE φ300 L=1260.4
GUTTER L=1260.4
GUTTER-INLET N=42.0

(MARKING WHITE(LEFT) B=15cm L=4194.6)
(MARKING WHITE(LEFT) B=15cm L=4194.6)

(SEPARATOR W=2.0 L=3900.1)
(MARKING WHITE(LEFT) B=15cm L=3900.1)
(MARKING WHITE(LEFT) B=15cm L=3895.3)
(MARKING WHITE(LEFT) B=15cm L=1992.3)

L type RETAINING WALL L=140.4

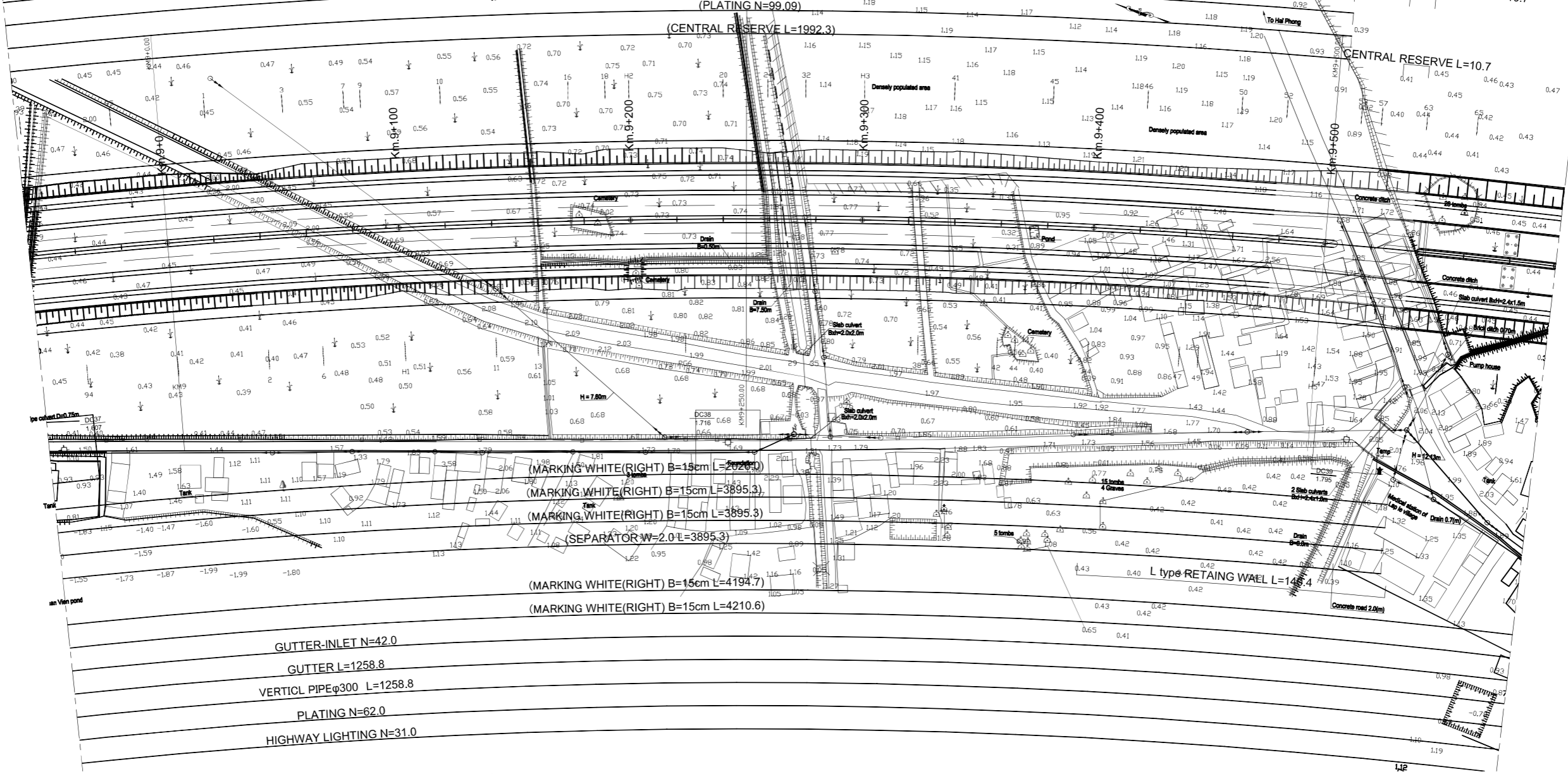
(HIGHWAY LIGHTING N=49.0)

(PLATING N=99.09)

(CENTRAL RESERVE L=1992.3)

MARKING WHITE(LEFT) B=15cm L=10.7

CENTRAL RESERVE L=10.7



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(14)

Rev No.

DRAWING No.	RR-RD-0014	SCALE	S=1:2000
-------------	------------	-------	----------

TO THUY NGUYEN

TO HAI AN

Box Culvert (B20.0 * H2.0) L=73.00
Km.9+915.000

BRIDGE L=319.3

(HIGHWAY LIGHTING N=31.0)

(PLATING N=62.0)

(VERTICAL PIPE φ300 L=1260.4)

(GUTTER L=1260.4)

(GUTTER-INLET N=42.0)

(MARKING WHITE(LEFT) B=15cm L=4194.6)

(MARKING WHITE(LEFT) B=15cm L=4194.6)

(HIGHWAY LIGHTING N=45.0)

(PLATING N=91.0)

(VERTICAL PIPE φ300 L=1828.8)

(GUTTER L=1828.8)

(GUTTER-INLET N=61.0)

(MARKING WHITE(LEFT) B=15cm L=2880.4)

(MARKING WHITE(LEFT) B=15cm L=1778.5)

L type RETAINING WALL L=140.4

(SEPARATOR W=2.0 L=1618.6)

(MARKING WHITE(LEFT) B=15cm L=1618.6)

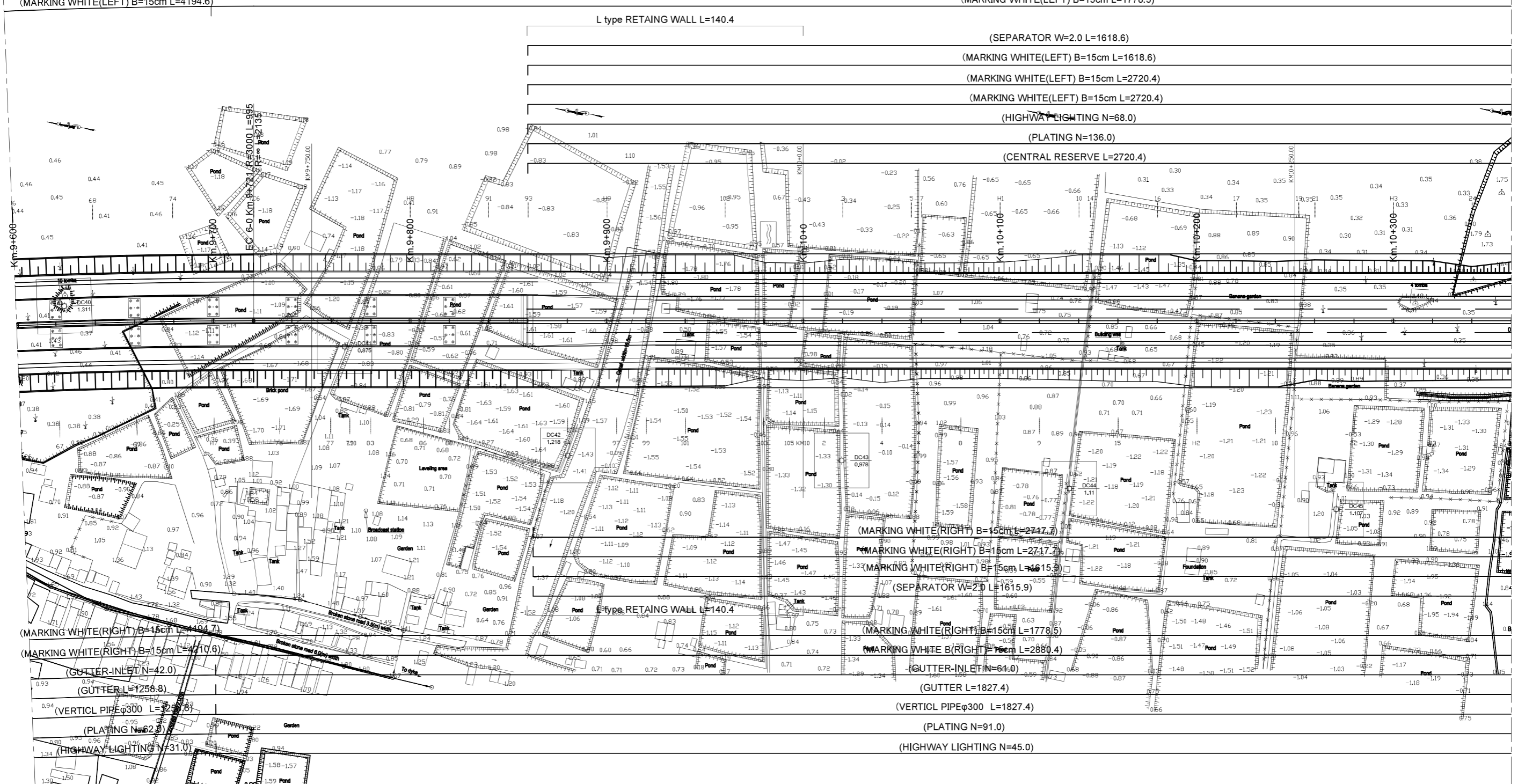
(MARKING WHITE(LEFT) B=15cm L=2720.4)

(MARKING WHITE(LEFT) B=15cm L=2720.4)

(HIGHWAY LIGHTING N=68.0)

(PLATING N=136.0)

(CENTRAL RESERVE L=2720.4)



(MARKING WHITE(RIGHT) B=15cm L=4194.6)

(MARKING WHITE(RIGHT) B=15cm L=4194.6)

(GUTTER-INLET N=42.0)

(GUTTER L=1260.4)

(VERTICAL PIPE φ300 L=1260.4)

(PLATING N=62.0)

(HIGHWAY LIGHTING N=31.0)

(MARKING WHITE(RIGHT) B=15cm L=2717.7)

(MARKING WHITE(RIGHT) B=15cm L=2717.7)

(MARKING WHITE(RIGHT) B=15cm L=1778.5)

(SEPARATOR W=2.0 L=1615.9)

(MARKING WHITE(RIGHT) B=15cm L=1778.5)

(MARKING WHITE(RIGHT) B=15cm L=2880.4)

(GUTTER-INLET N=61.0)

(GUTTER L=1827.4)

(VERTICAL PIPE φ300 L=1827.4)

(PLATING N=91.0)

(HIGHWAY LIGHTING N=45.0)

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE:		RING ROAD 3RD PLAN(15)		Rev No.
DRAWING No.	RR-RD-0015	SCALE	S=1:2000	

TO THUY NGUYEN

TO HAI AN

Box Culvert (B6.0 * :H2.0) L=65.00
Km.10+460.000

Box Culvert (B3.0 * :H2.0) L=63.00
Km.10+630.000

Box Culvert (B1.5 * :H1.5) L=67.00
Km.11+15.000

HIGHWAY LIGHTING N=45.0

PLATING N=91.0

VERTICAL PIPE φ300 L=1828.8

GUTTER L=1828.8

GUTTER-INLET N=61.0

(MARKING WHITE(LEFT) B=15cm L=2880.4)

MARKING V

MARKING WHITE(LEFT) B=15cm L=1778.5

SEPARATOR W=2.0 L=1618.6

MARKING WHITE(LEFT) B=15cm L=1618.6

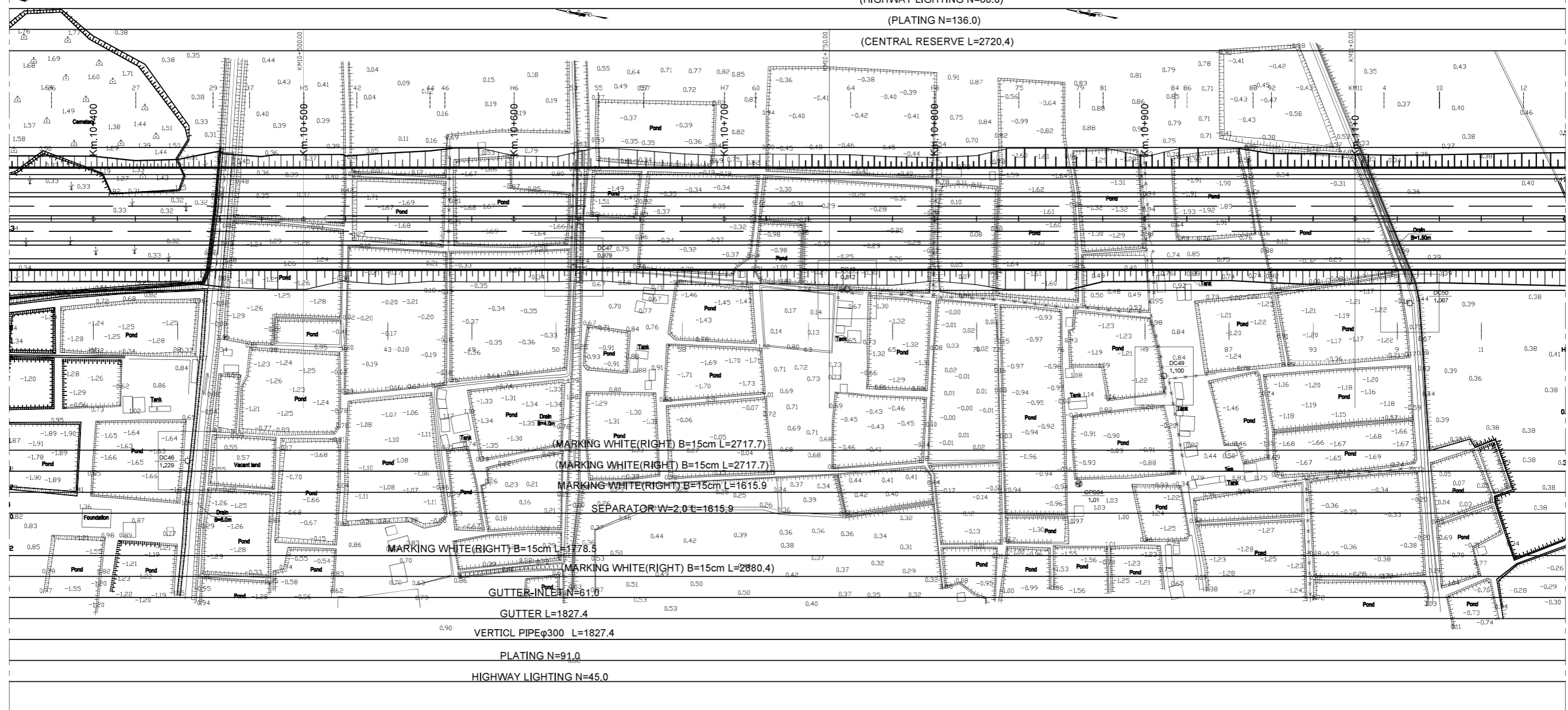
(MARKING WHITE(LEFT) B=15cm L=2720.4)

(MARKING WHITE(LEFT) B=15cm L=2720.4)

(HIGHWAY LIGHTING N=68.0)

(PLATING N=136.0)

(CENTRAL RESERVE L=2720.4)



(MARKING WHITE(RIGHT) B=15cm L=2717.7)

(MARKING WHITE(RIGHT) B=15cm L=1615.9)

SEPARATOR W=2.0 L=1615.9

MARKING WHITE(RIGHT) B=15cm L=1778.5

MARKING WHITE(RIGHT) B=15cm L=2880.4

GUTTER-INLET N=61.0

GUTTER L=1827.4

VERTICAL PIPE φ300 L=1827.4

PLATING N=91.0

HIGHWAY LIGHTING N=45.0

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

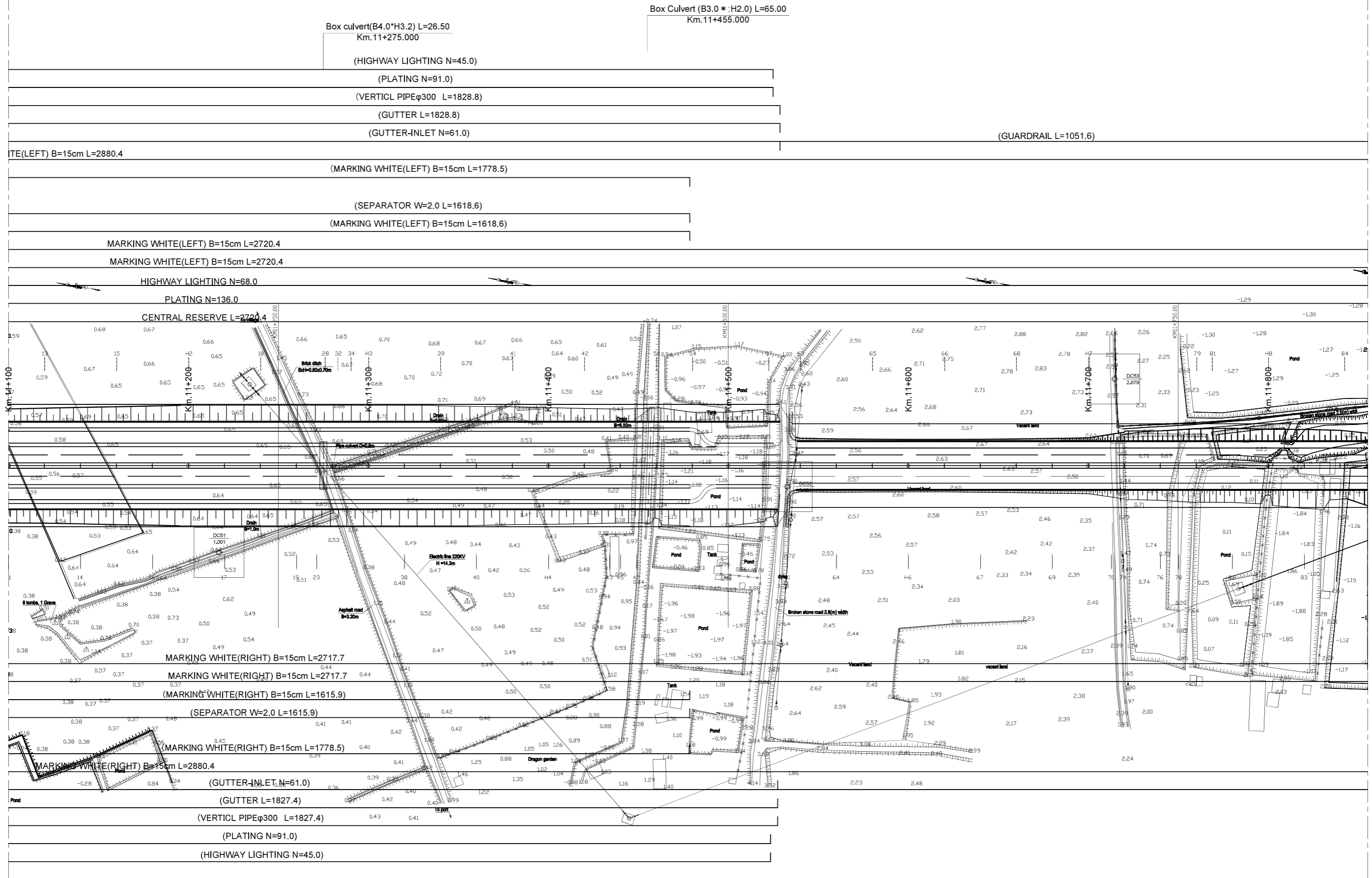


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE:		RING ROAD 3RD PLAN(16)		Rev No.
DRAWING No.	RR-RD-0016	SCALE	S=1:2000	

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

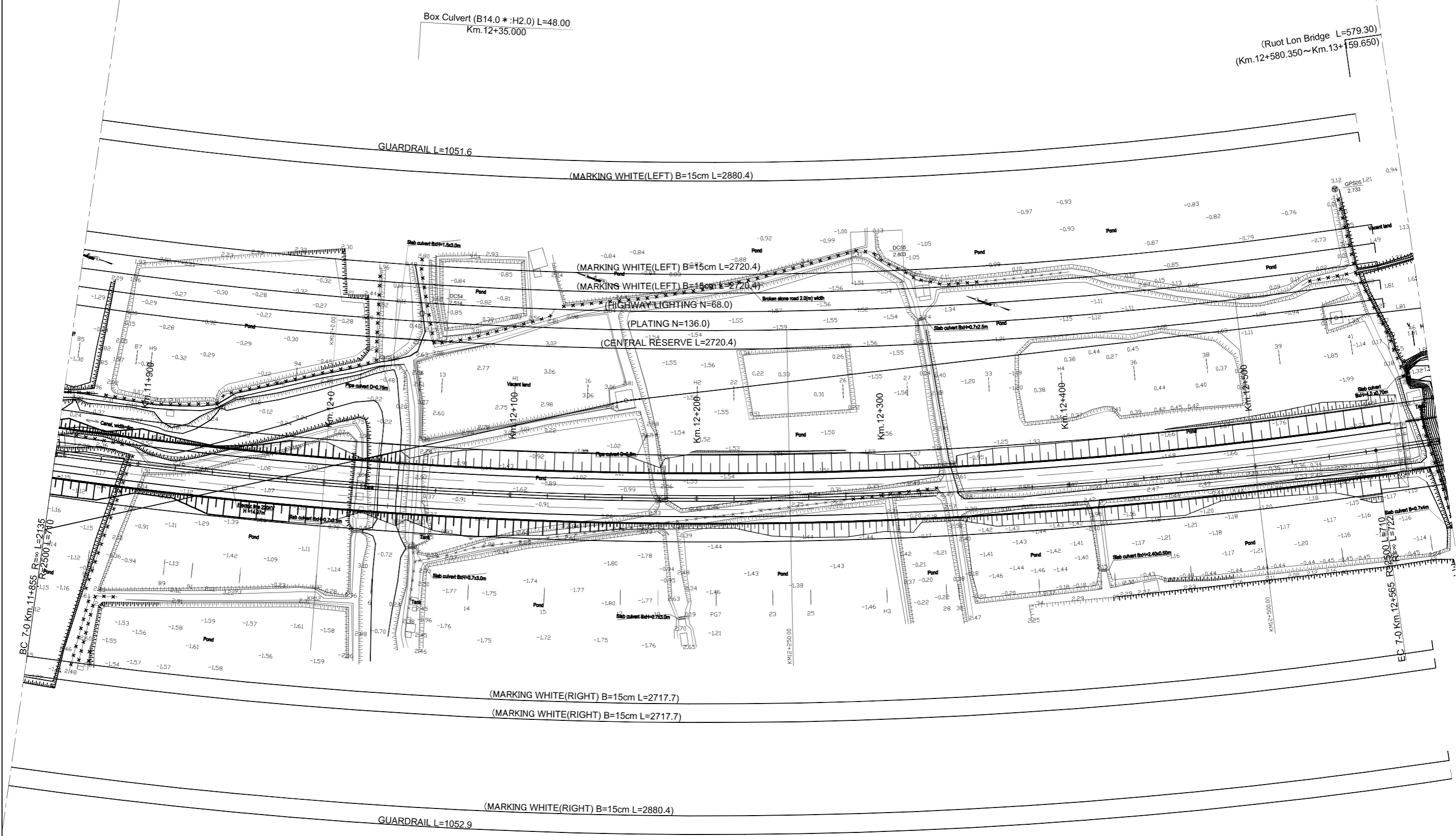
DRAWING TITLE: RING ROAD 3RD
PLAN(17)

DRAWING No.	RR-RD-0017	SCALE	S=1:2000
-------------	------------	-------	----------

Rev No.

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

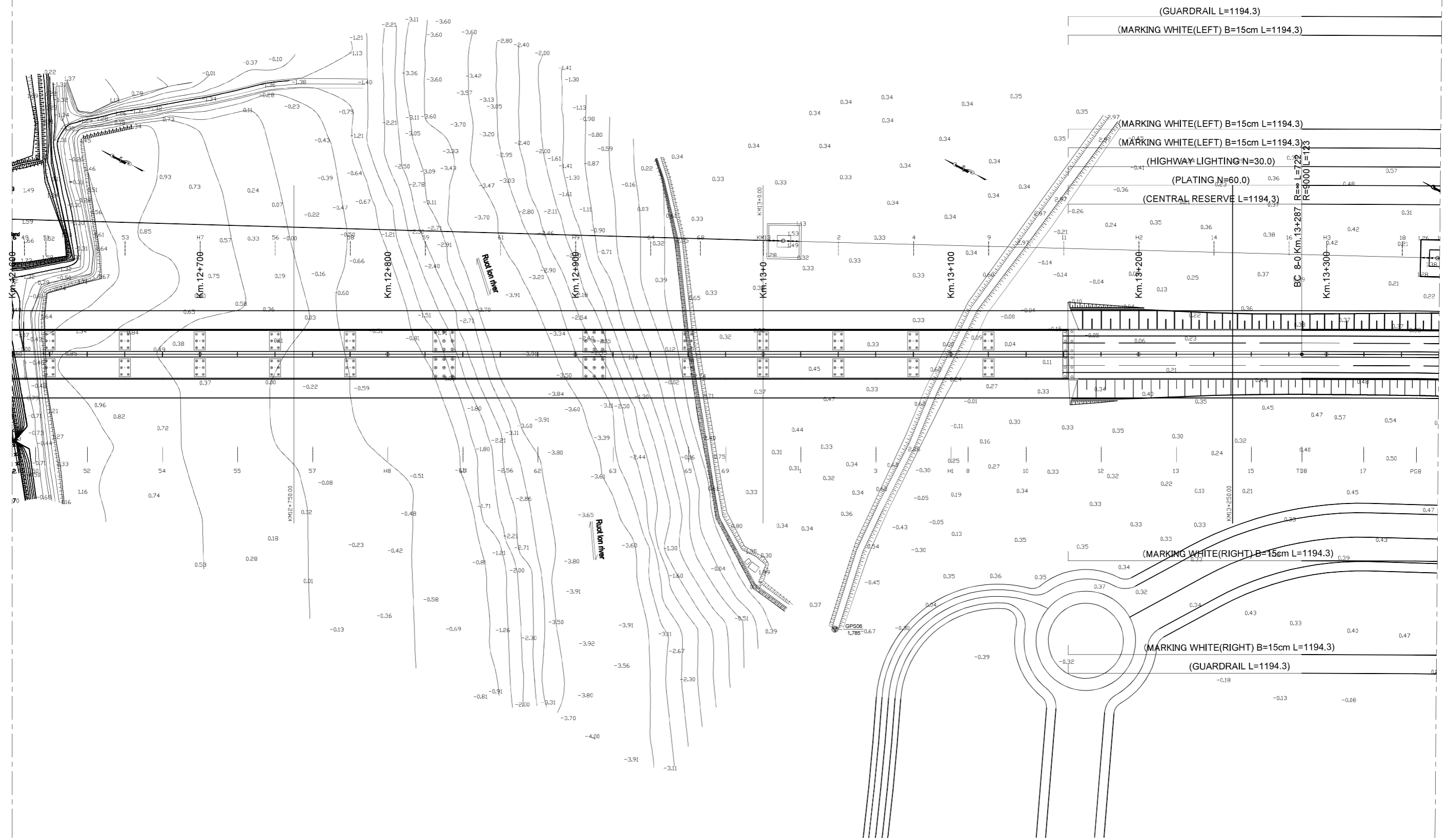
DRAWING TITLE: RING ROAD 3RD PLAN(18)
 DRAWING No. RR-RD-0018 SCALE S=1:2000

Rev No.

TO THUY NGUYEN

TO HAI AN

Ruot Lon Bridge L=579.30
Km.12+580.350~Km.13+159.650



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



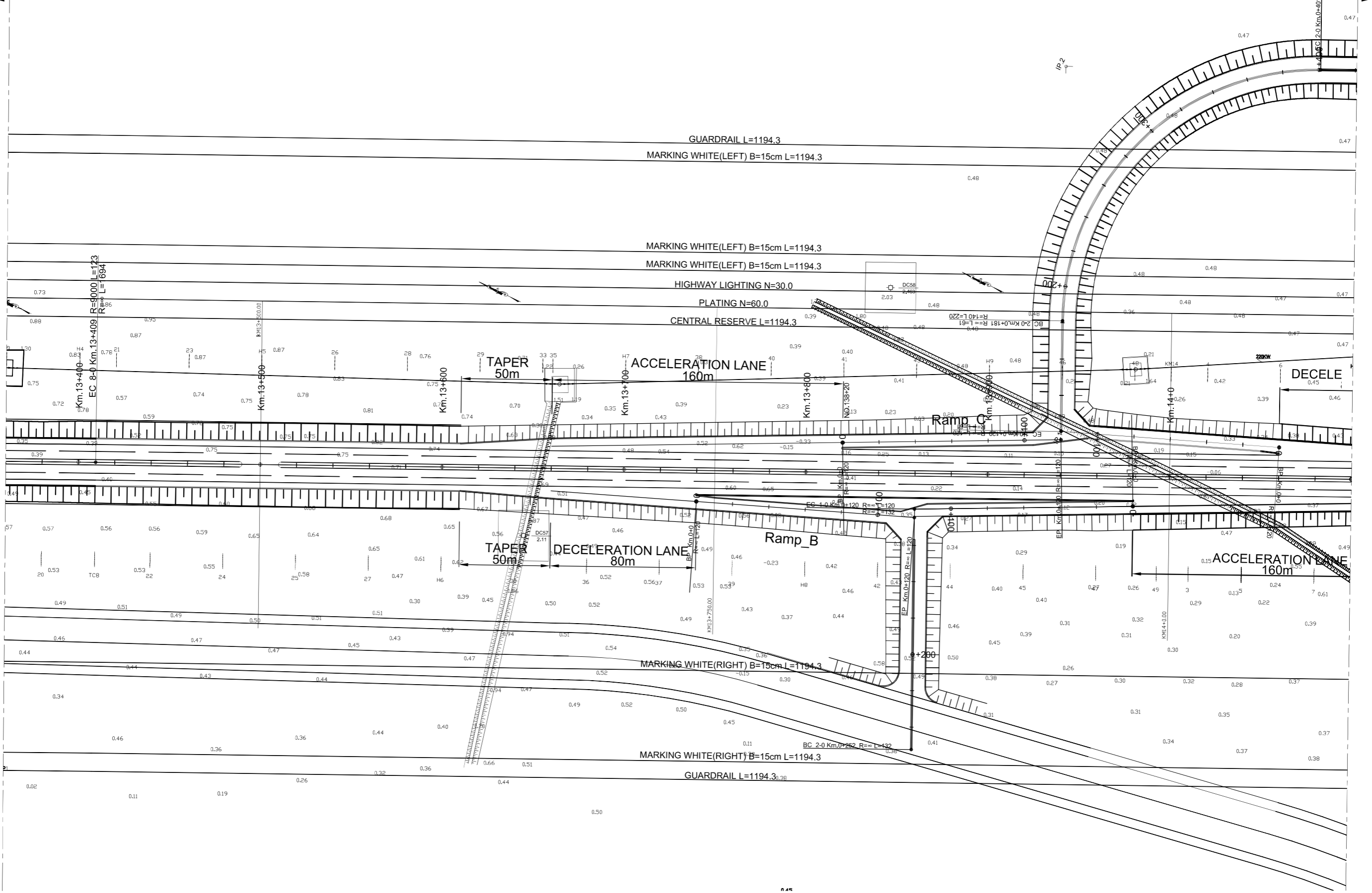
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(19)
DRAWING No. RR-RD-0019 SCALE S=1:2000

Rev No.

TO THUY NGUYEN

TO HAI AN



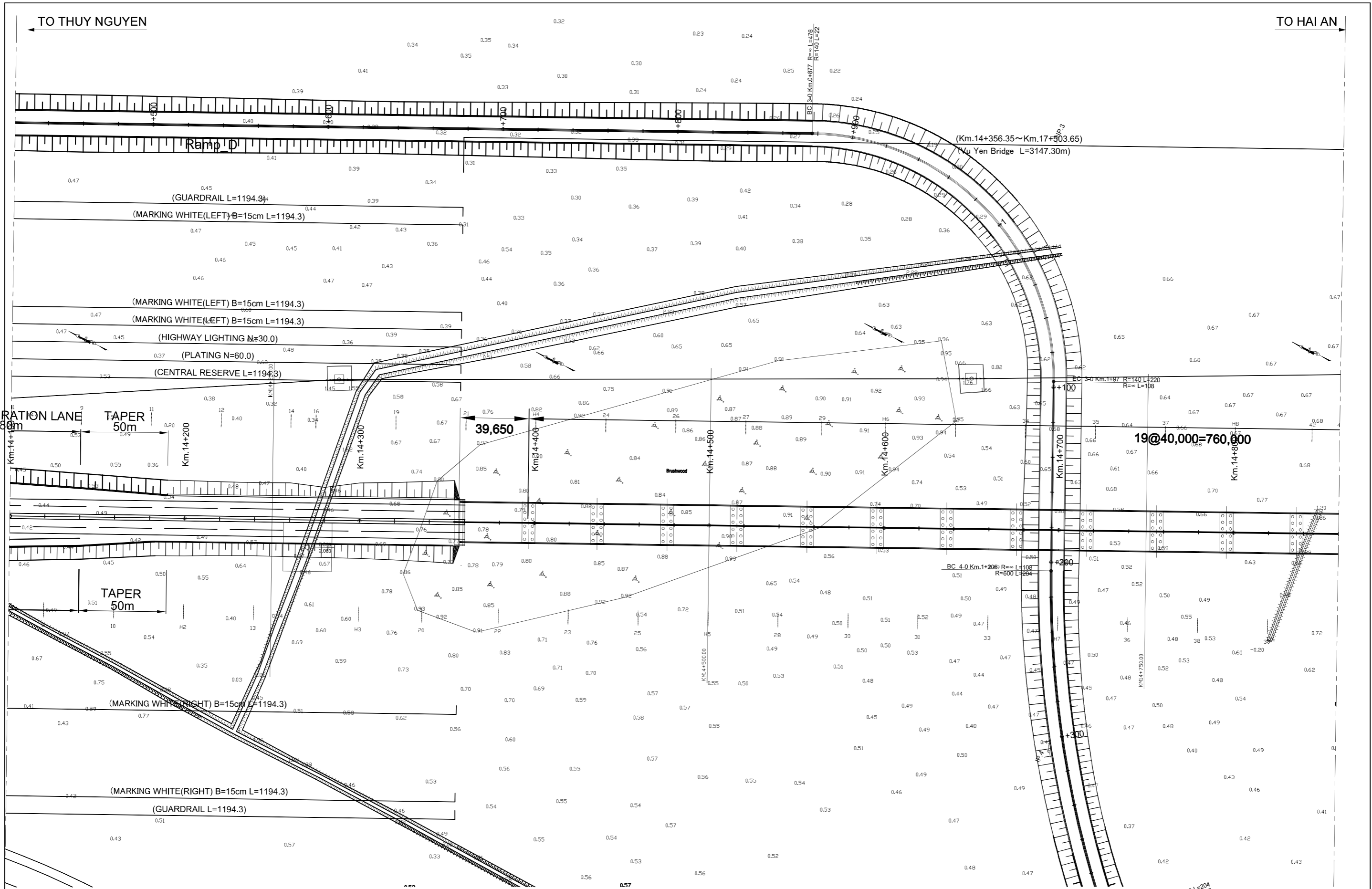
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(20)
 DRAWING No. RR-RD-0020 SCALE S=1:2000

Rev No.



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

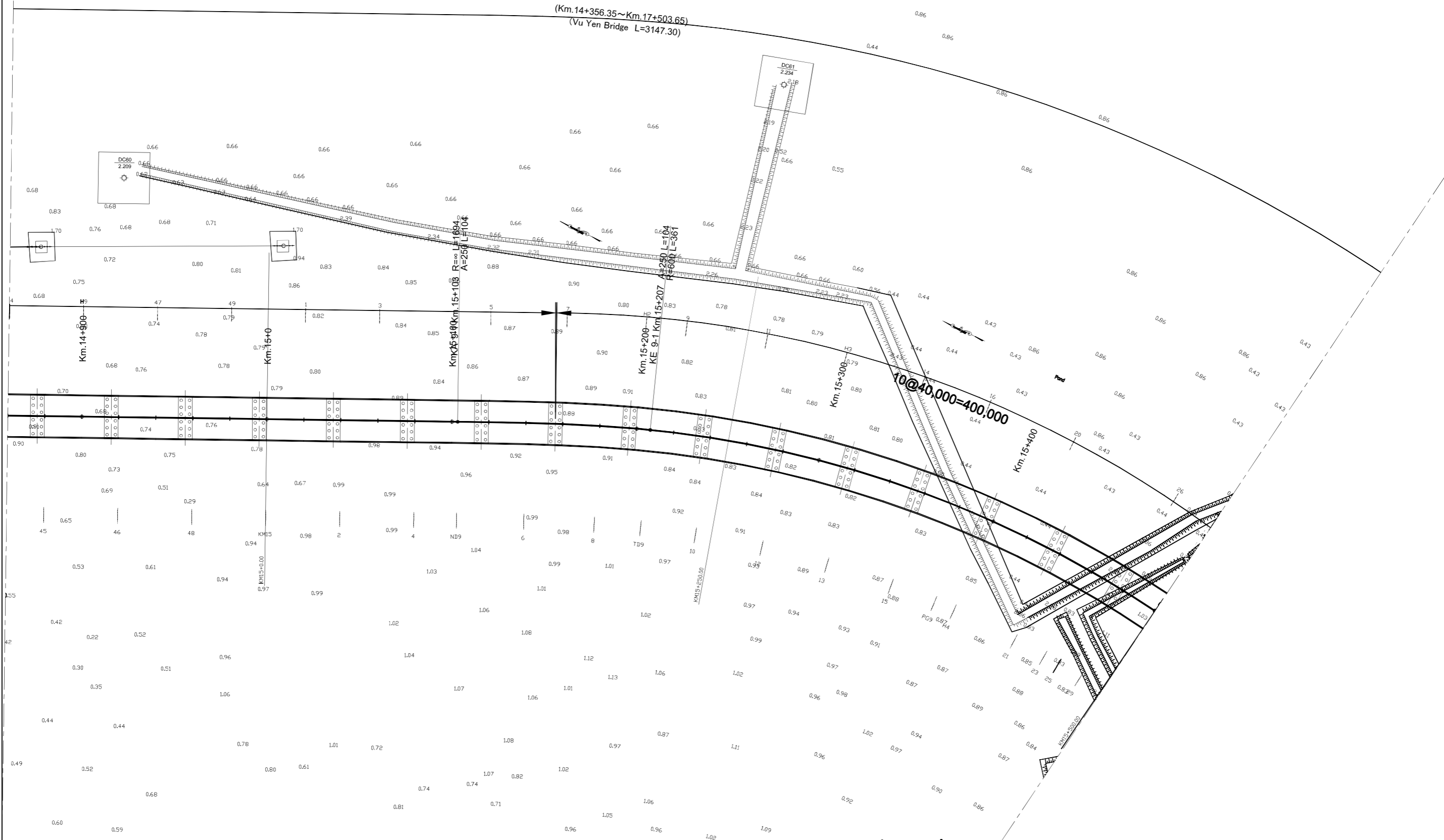
DRAWING TITLE: RING ROAD 3RD PLAN(21)

DRAWING No.	RR-RD-0021	SCALE	S=1:2000
-------------	------------	-------	----------

Rev No.

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(22)

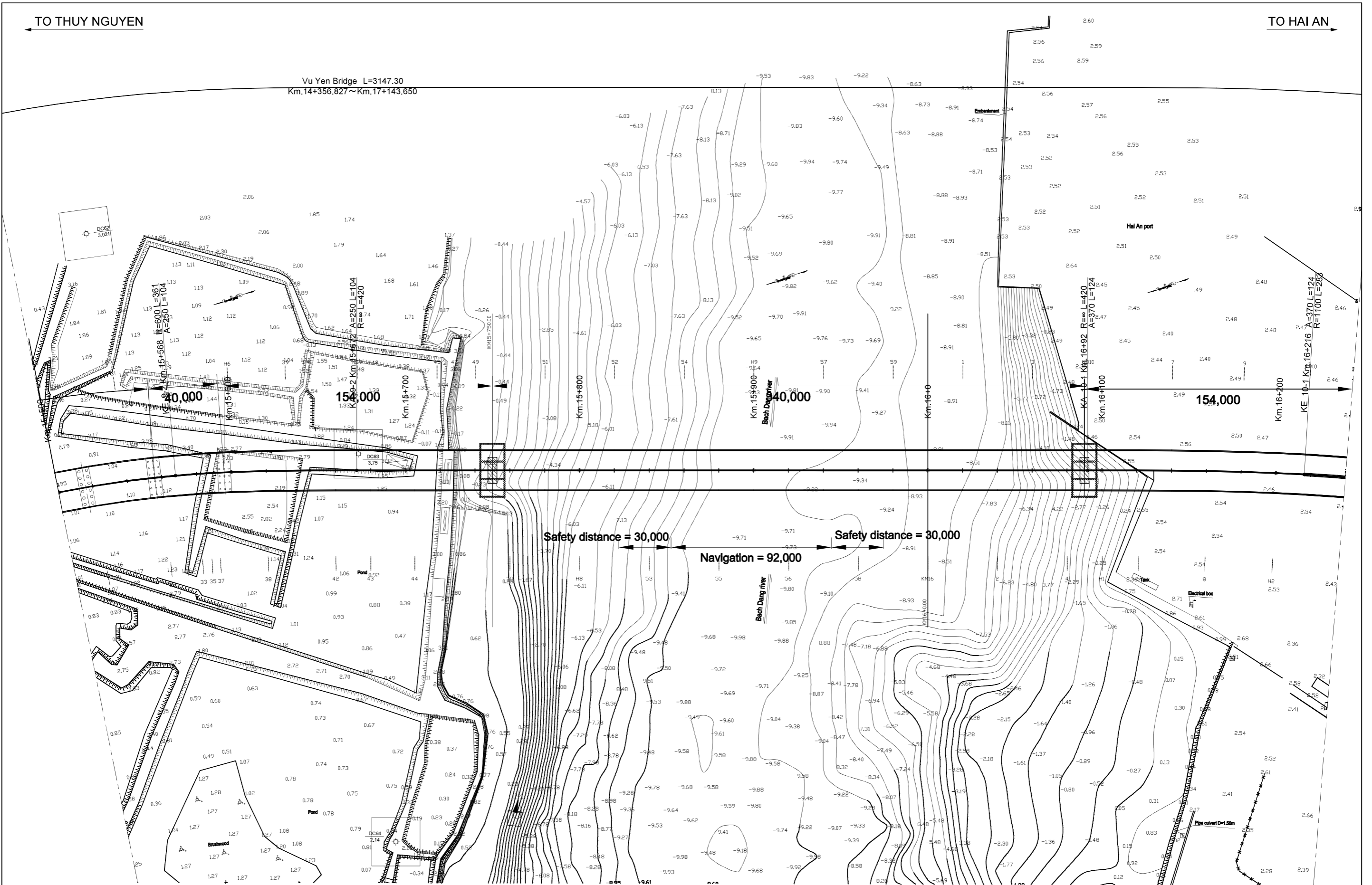
DRAWING No.	RR-RD-0022	SCALE	S=1:2000
-------------	------------	-------	----------

Rev No.

TO THUY NGUYEN

TO HAI AN

Vu Yen Bridge L=3147.30
Km.14+356.827~Km.17+143.650



PROJECT:
**PREPARATORY SURVEY
 ON
 HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT**



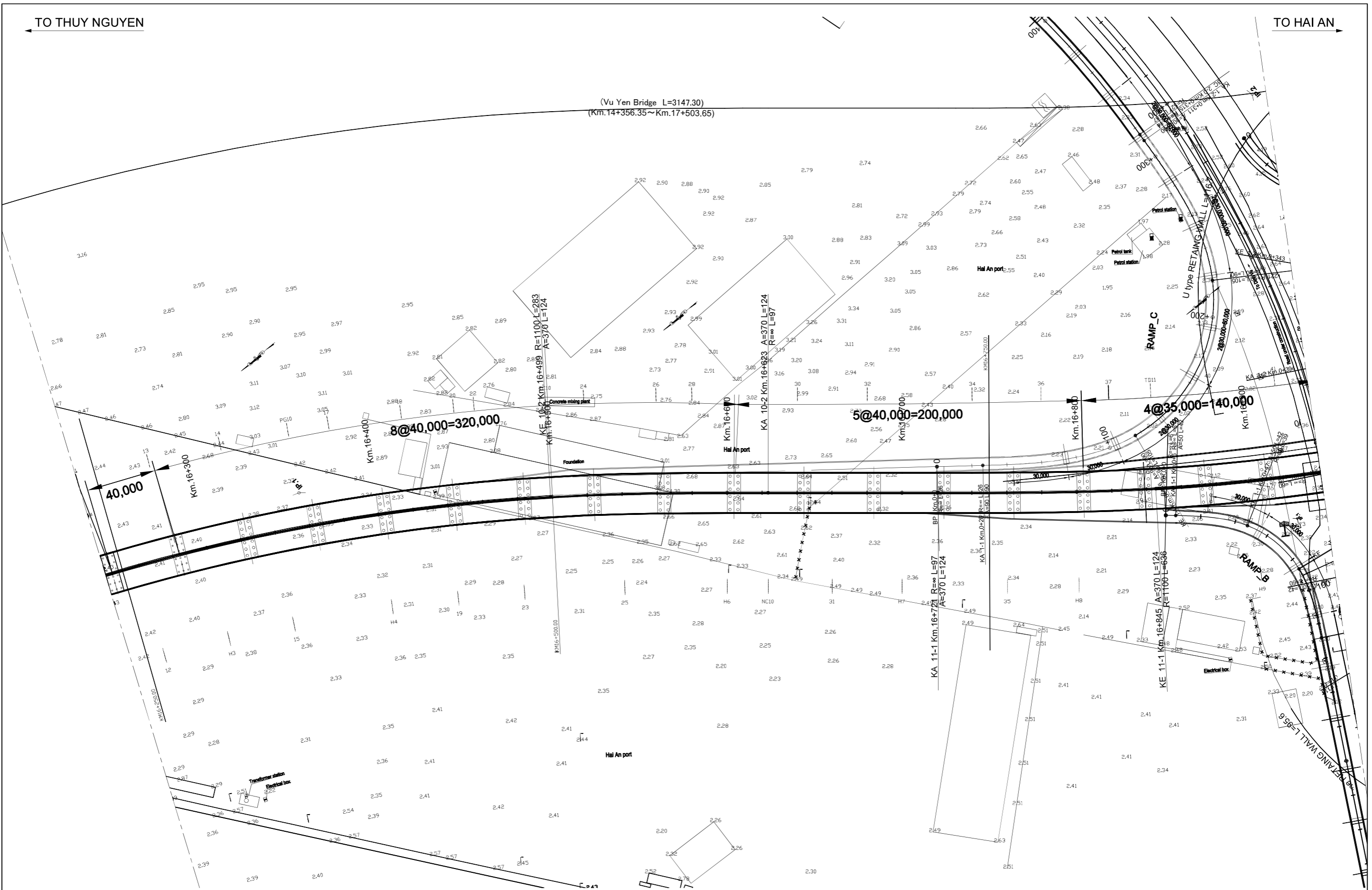
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS:
 JOINT VENTURE OF
 CHODAI CO.,LTD.
 ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
 ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(23)		Rev No.
DRAWING No.	RR-RD-0023	SCALE
		S=1:2000

TO THUY NGUYEN

TO HAI AN

(Vu Yen Bridge L=3147.30)
(Km.14+356.35~Km.17+503.65)



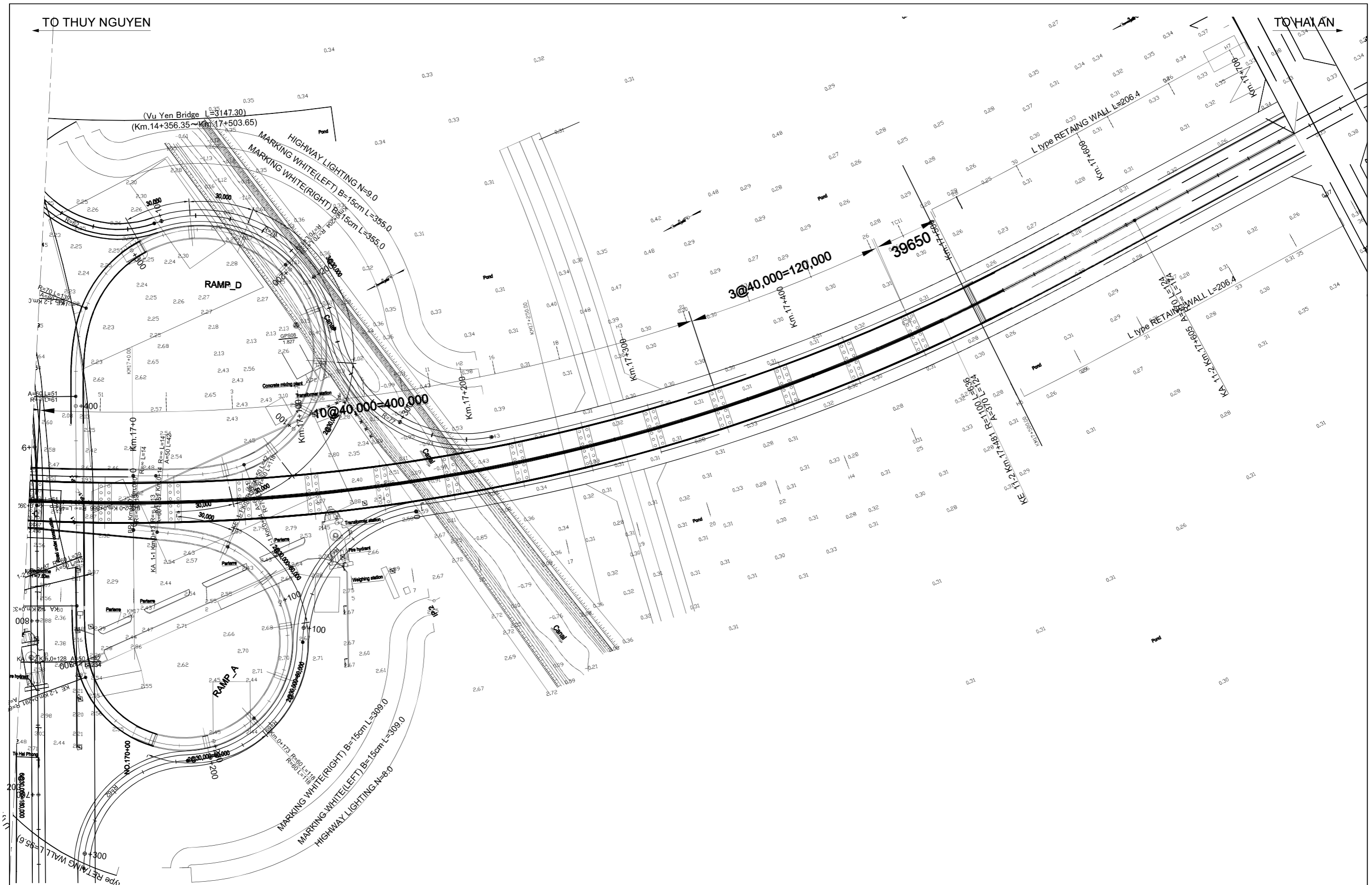
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PLAN(24)
DRAWING No. RR-RD-0024 SCALE S=1:2000

Rev No.



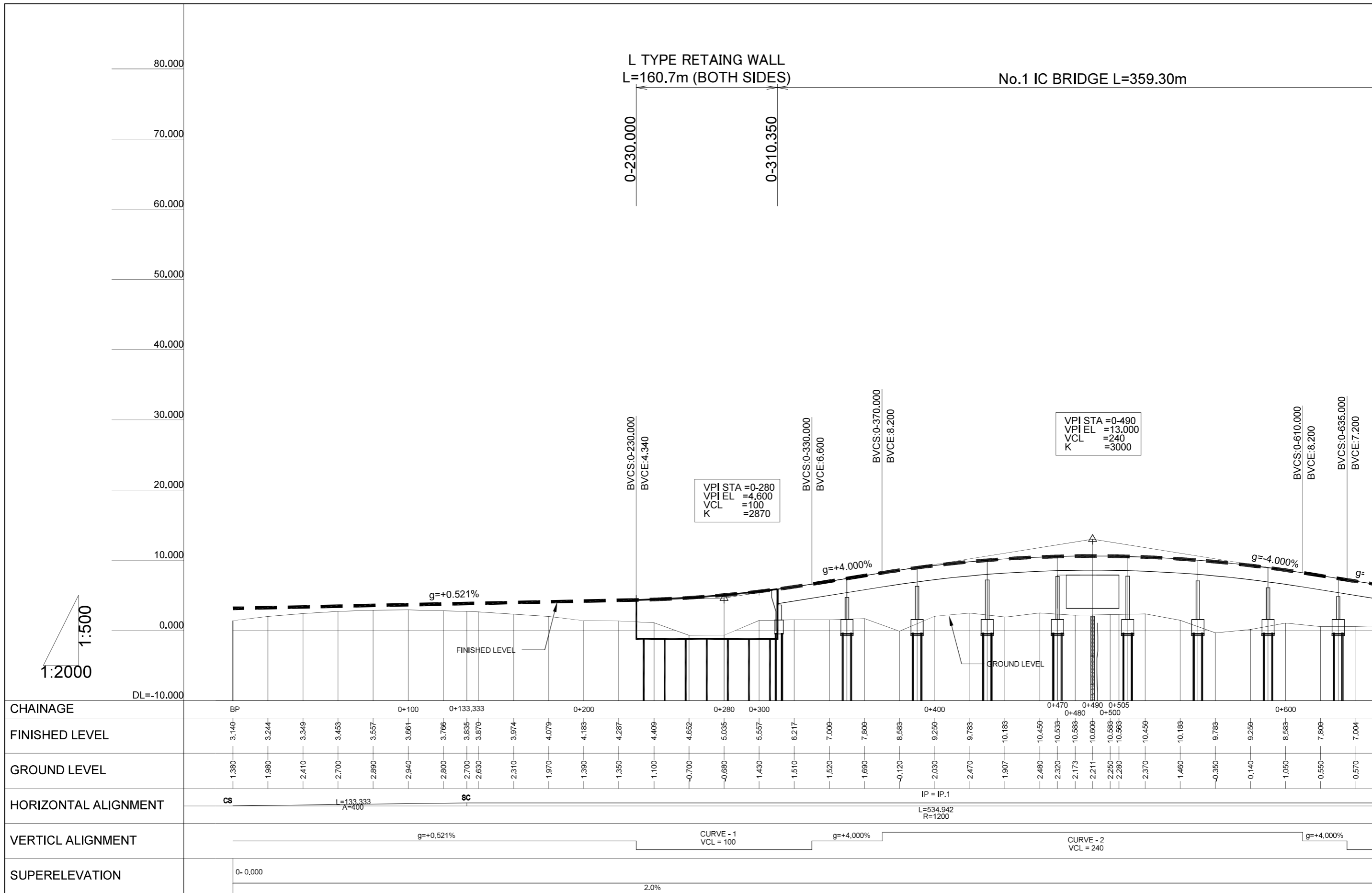
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT




JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

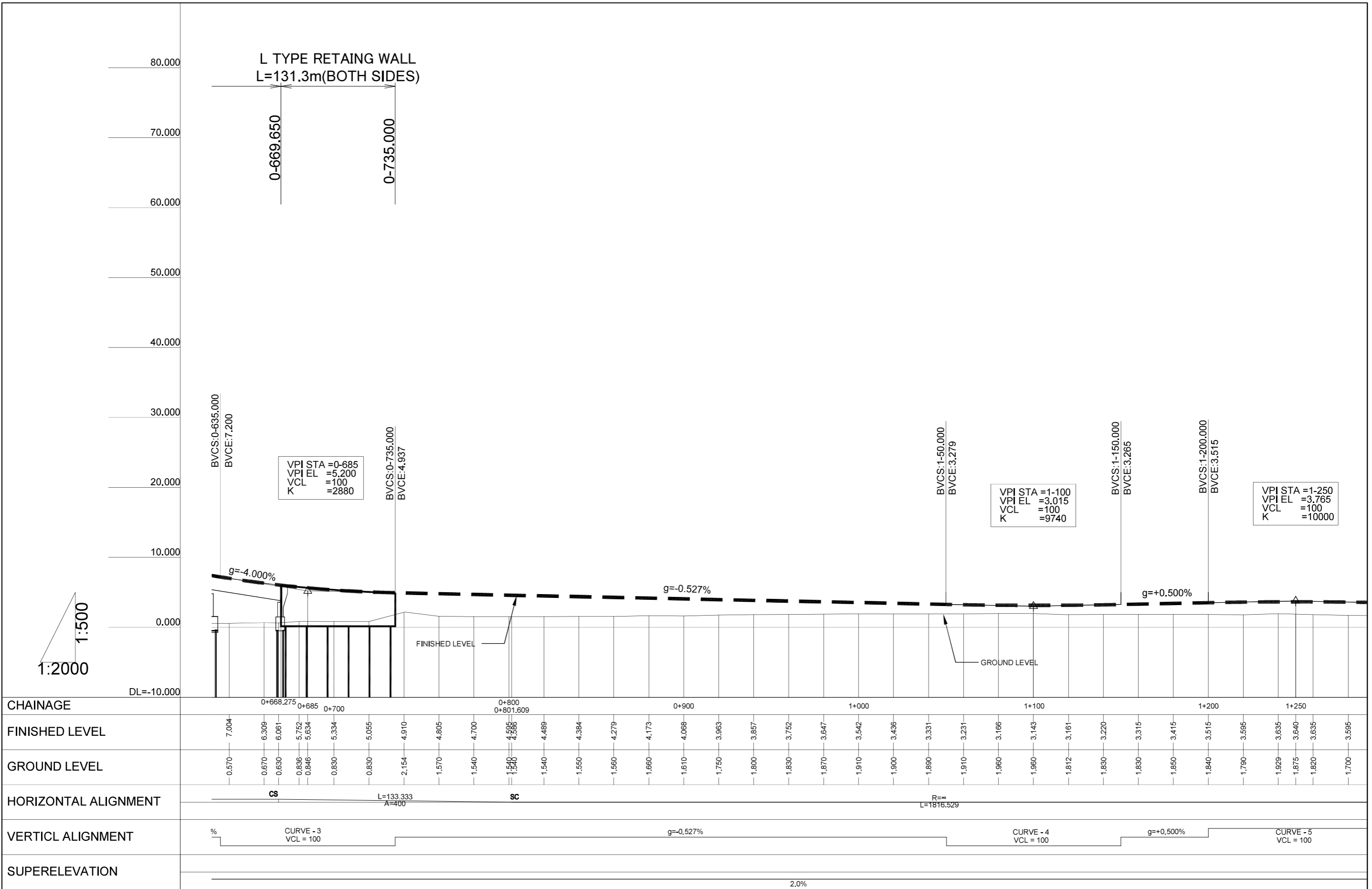
DRAWING TITLE: RING ROAD 3RD PLAN(25)
 DRAWING No. RR-RD-0025 SCALE S=1:2000

Rev No.



CHAINAGE	BP	0+100	0+133.333	0+200	0+280	0+300	0+400	0+470	0+480	0+490	0+505	0+600																									
FINISHED LEVEL	3.140	3.244	3.349	3.453	3.557	3.661	3.766	3.835	3.870	3.974	4.079	4.183	4.287	4.409	4.652	5.035	5.657	6.217	7.000	7.800	8.583	9.250	9.783	10.183	10.450	10.533	10.583	10.600	10.583	10.563	10.450	10.183	9.783	9.250	8.583	7.800	7.004
GROUND LEVEL	1.380	1.980	2.410	2.700	2.890	2.940	2.800	2.700	2.630	2.310	1.970	1.390	1.350	1.100	-0.700	-0.680	1.430	1.510	1.520	1.690	-0.120	2.030	2.470	1.907	2.480	2.320	2.173	2.211	2.250	2.280	2.370	1.460	-0.350	0.140	1.050	0.550	0.570
HORIZONTAL ALIGNMENT	CS		L=133.333 A=400		SC		IP = IP.1 L=534.942 R=1200																														
VERTICAL ALIGNMENT	g=+0.521%				CURVE - 1 VCL = 100				g=+4.000%				CURVE - 2 VCL = 240				g=-4.000%				g=																
SUPERELEVATION	0-0.000												2.0%																								

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(1)				Rev No.
			DRAWING No.	RR-RD-0101	SCALE	V=1:500 S=1:2000	



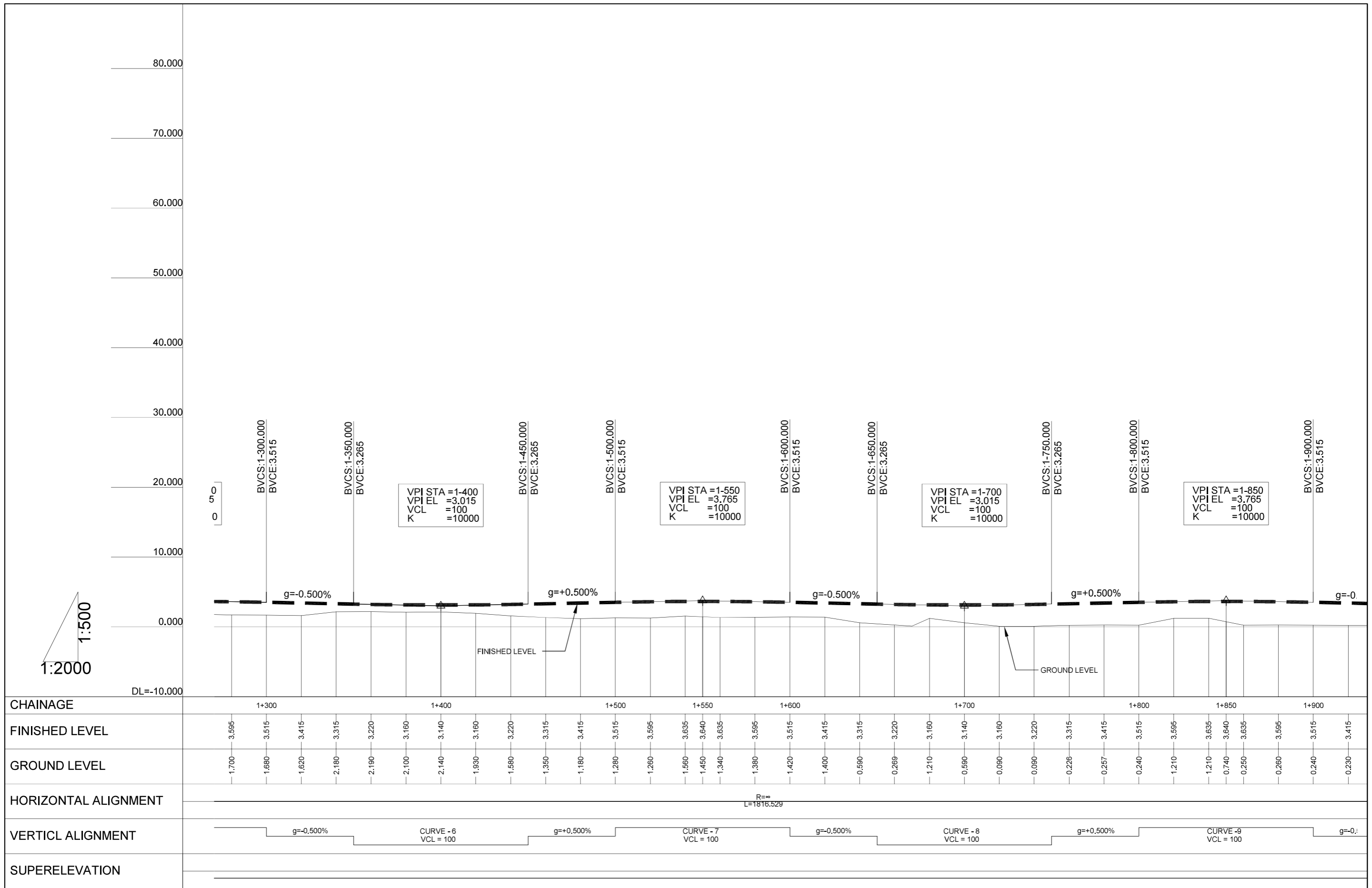
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT




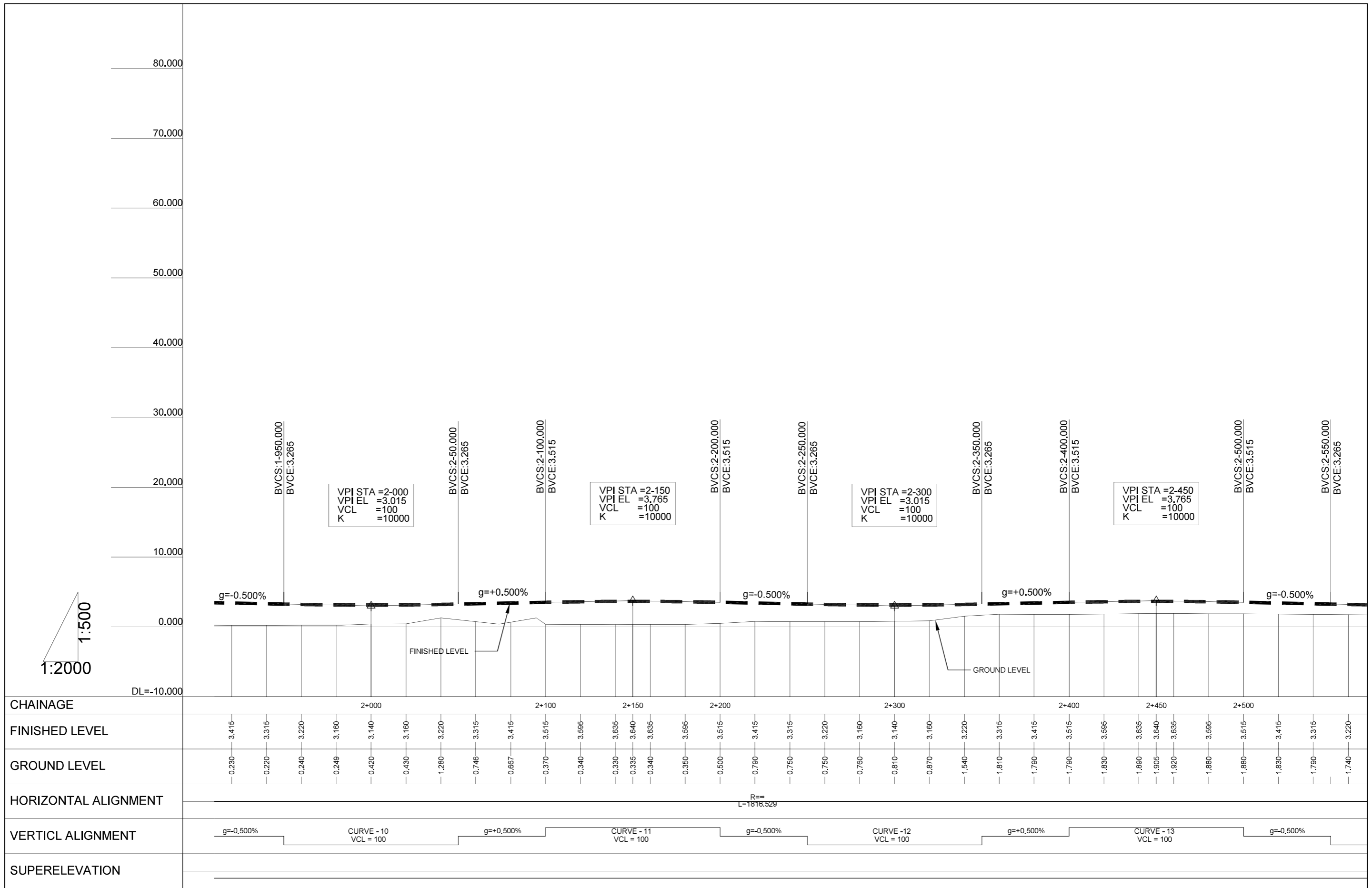
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.


DRAWING TITLE: RING ROAD 3RD PROFILE(2)
DRAWING No. RR-RD-0102 SCALE V=1:500 S=1:2000

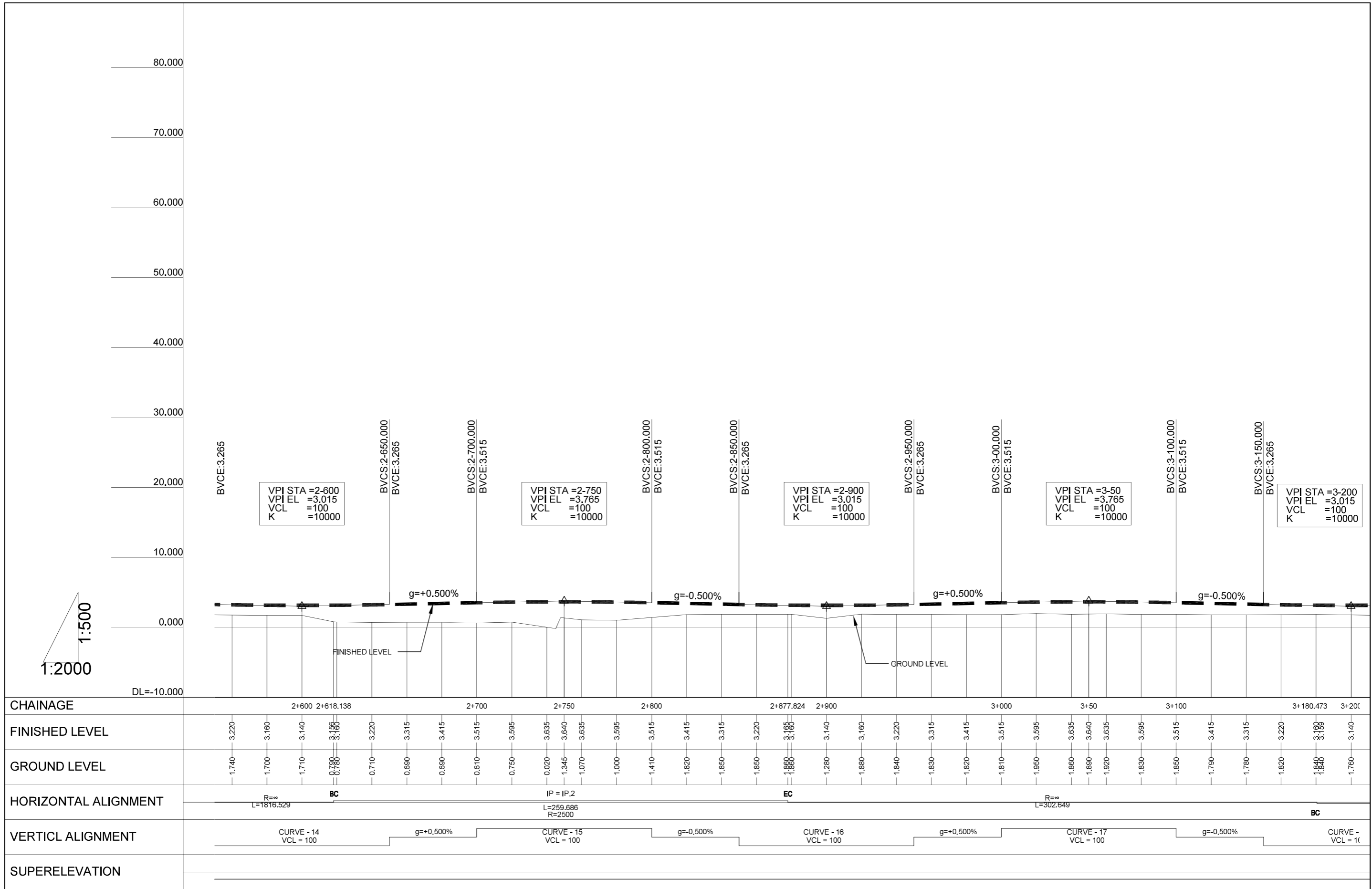
Rev No.




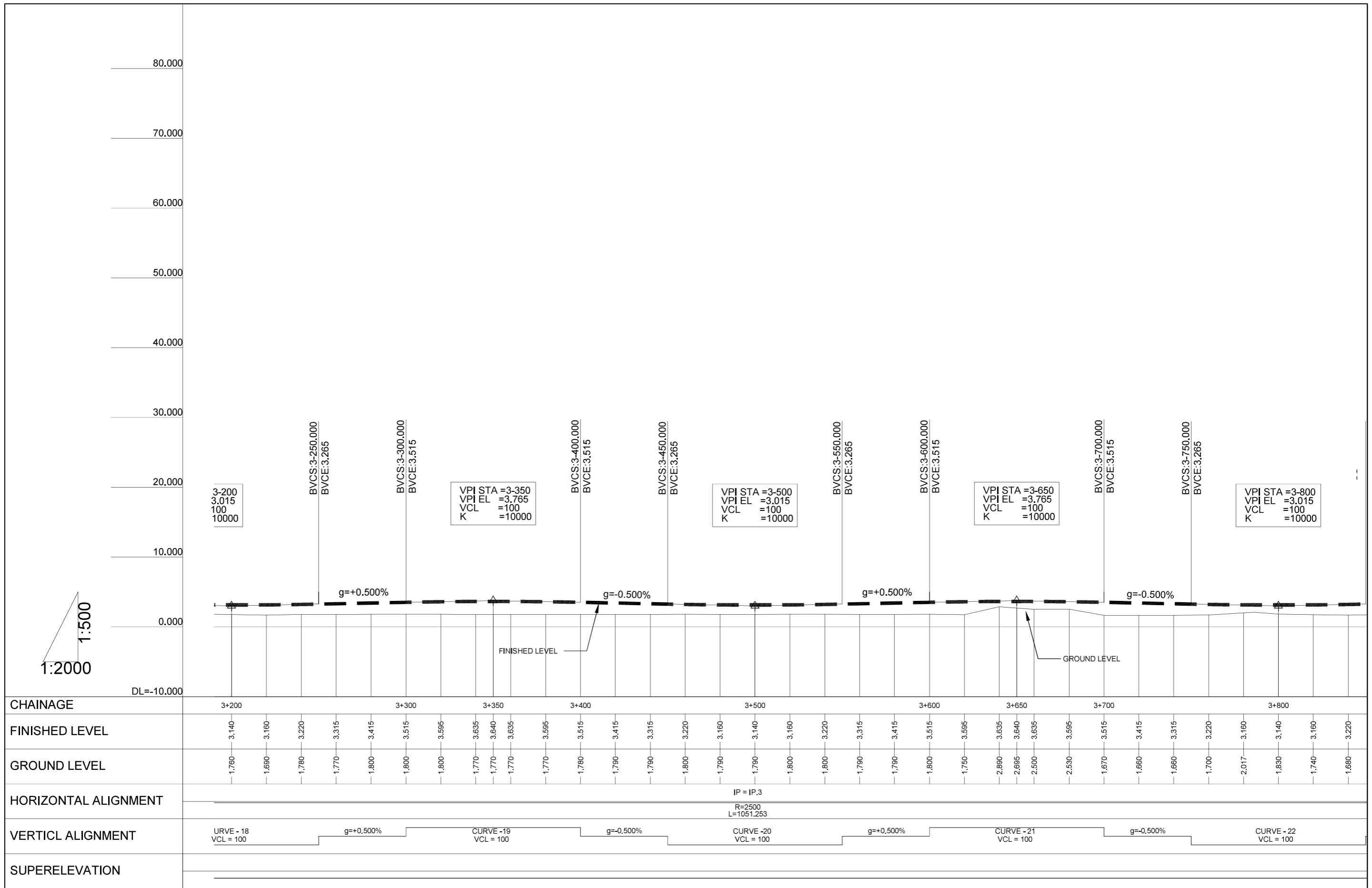
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(3)			Rev No.
			DRAWING No.	RR-RD-0103	SCALE	V=1:500 S=1:2000




PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(4)				Rev No.
			DRAWING No. RR-RD-0104	SCALE V=1:500 S=1:2000			

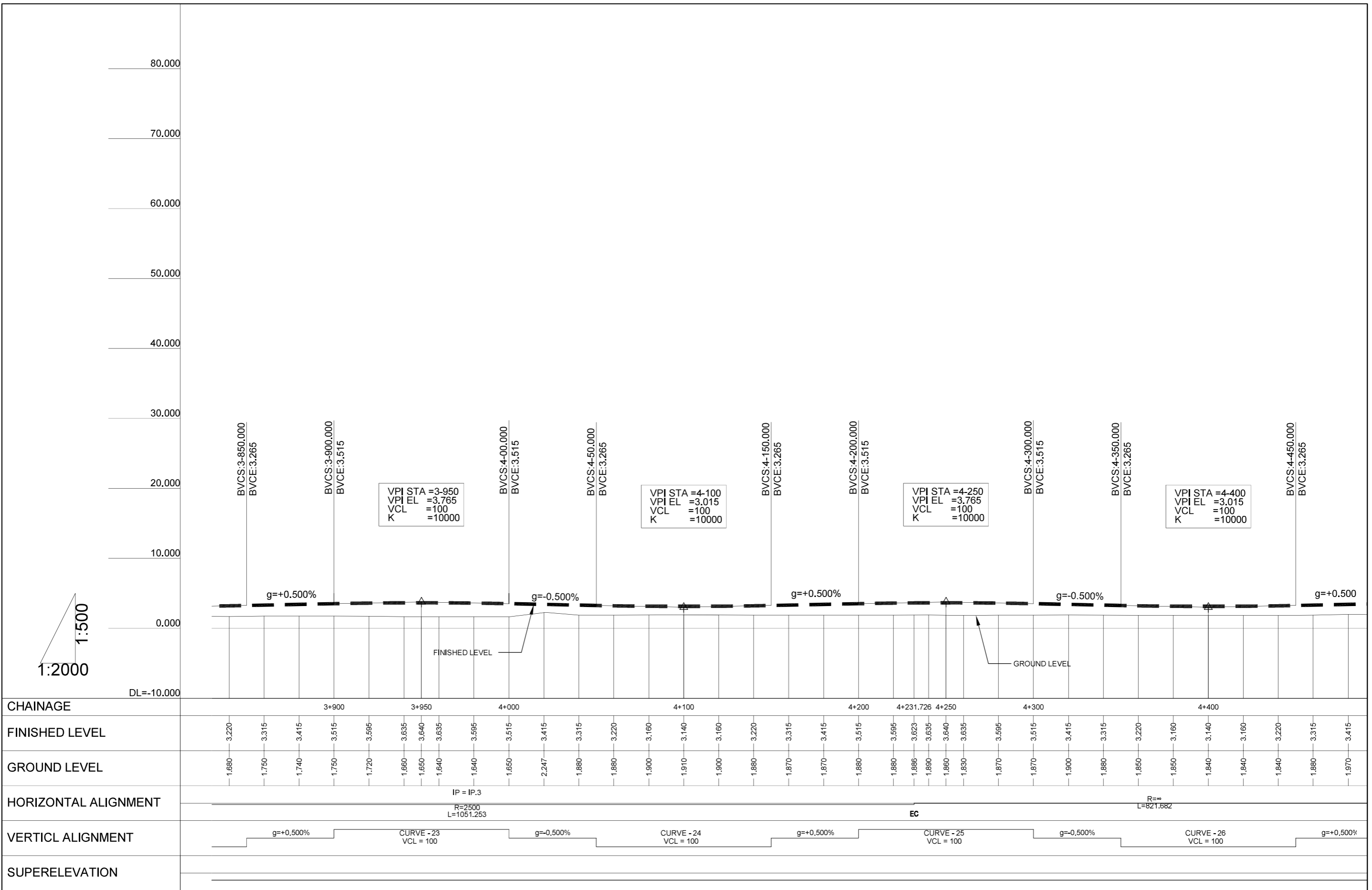



PROJECT:	PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT			JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.		DRAWING TITLE:			Rev No.
						RING ROAD 3RD PROFILE(5)			
DRAWING No.		RR-RD-0105	SCALE		V=1:500 S=1:2000				

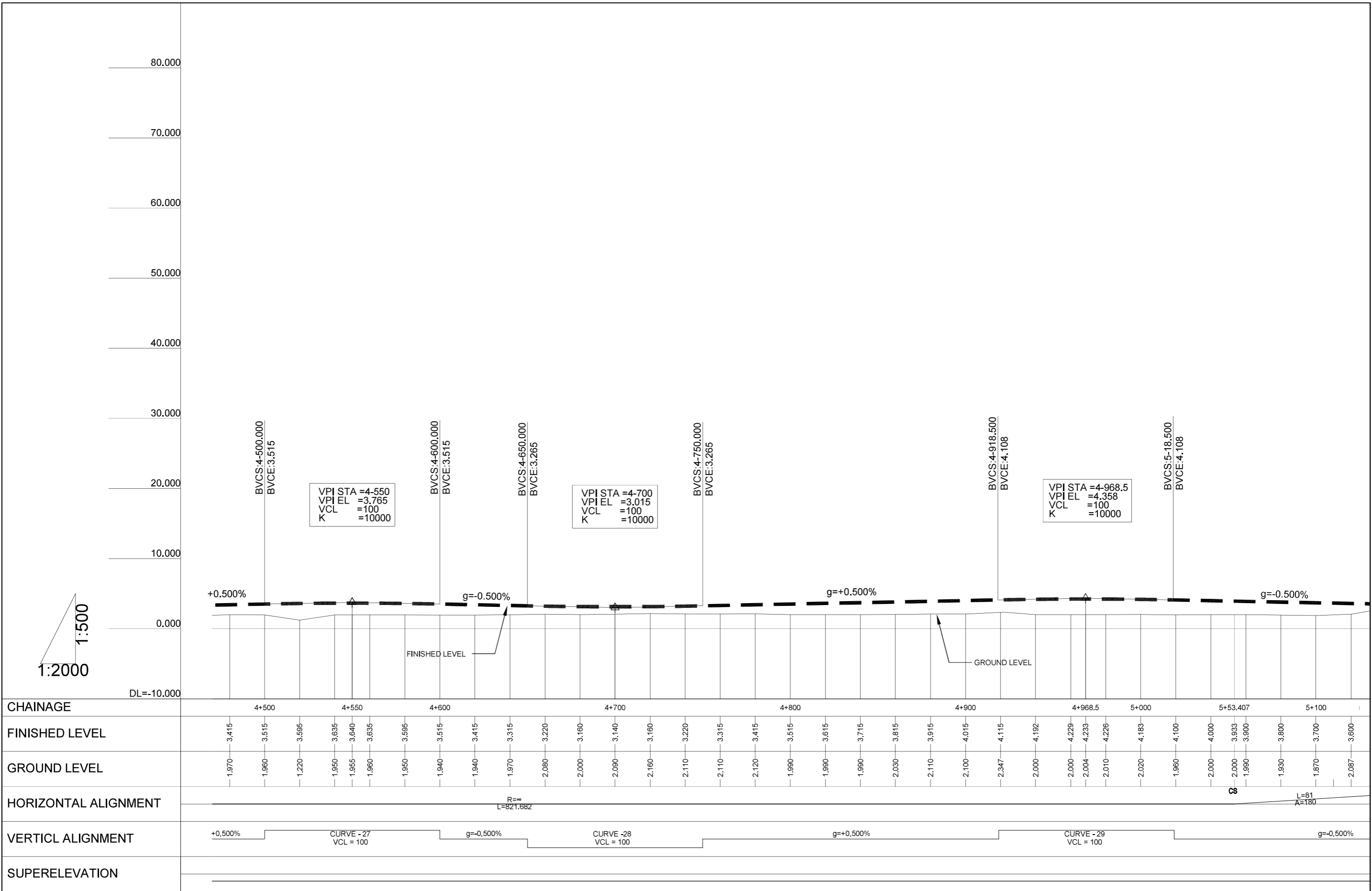



CHAINAGE	3+200	3+300	3+350	3+400	3+500	3+600	3+650	3+700	3+800																								
FINISHED LEVEL	3.140	3.160	3.220	3.315	3.415	3.515	3.595	3.635	3.640	3.635	3.595	3.515	3.415	3.315	3.220	3.160	3.140	3.160	3.220														
GROUND LEVEL	1.760	1.690	1.780	1.770	1.800	1.800	1.800	1.770	1.770	1.770	1.770	1.780	1.790	1.790	1.800	1.790	1.790	1.800	1.750	3.595	2.890	2.695	2.500	2.530	1.670	1.660	1.660	1.700	2.017	1.830	1.740	1.660	3.220
HORIZONTAL ALIGNMENT	IP = IP.3 R=2500 L=1051.253																																
VERTICAL ALIGNMENT	URVE - 18 VCL = 100		g=+0.500%			CURVE - 19 VCL = 100			g=-0.500%			CURVE - 20 VCL = 100			g=+0.500%			CURVE - 21 VCL = 100			g=-0.500%			CURVE - 22 VCL = 100									
SUPERELEVATION																																	

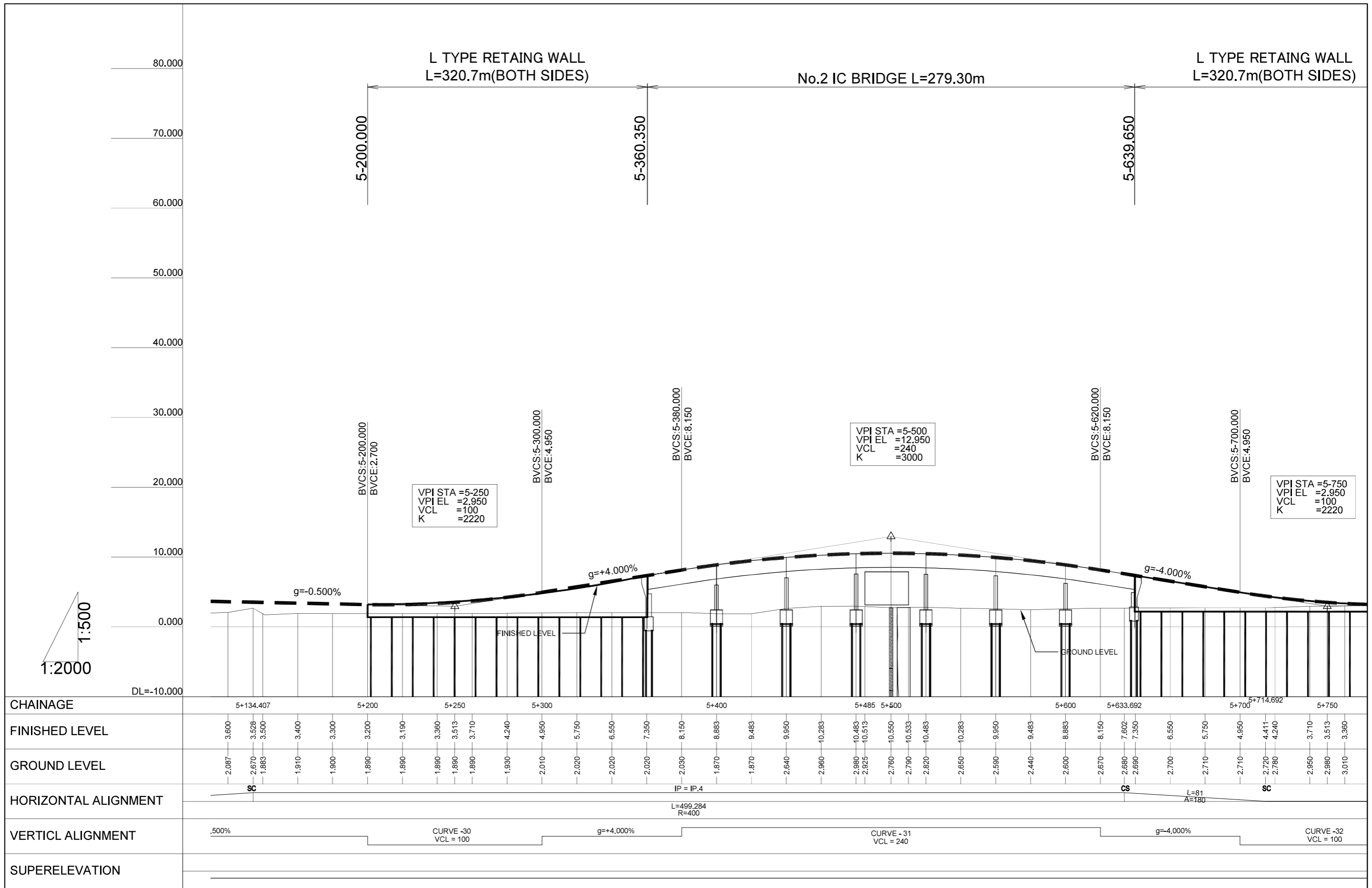
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(6)				Rev No.
			DRAWING No.	RR-RD-0106	SCALE	V=1:500 S=1:2000	




PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(7)			Rev No.
			DRAWING No.	RR-RD-0107	SCALE	

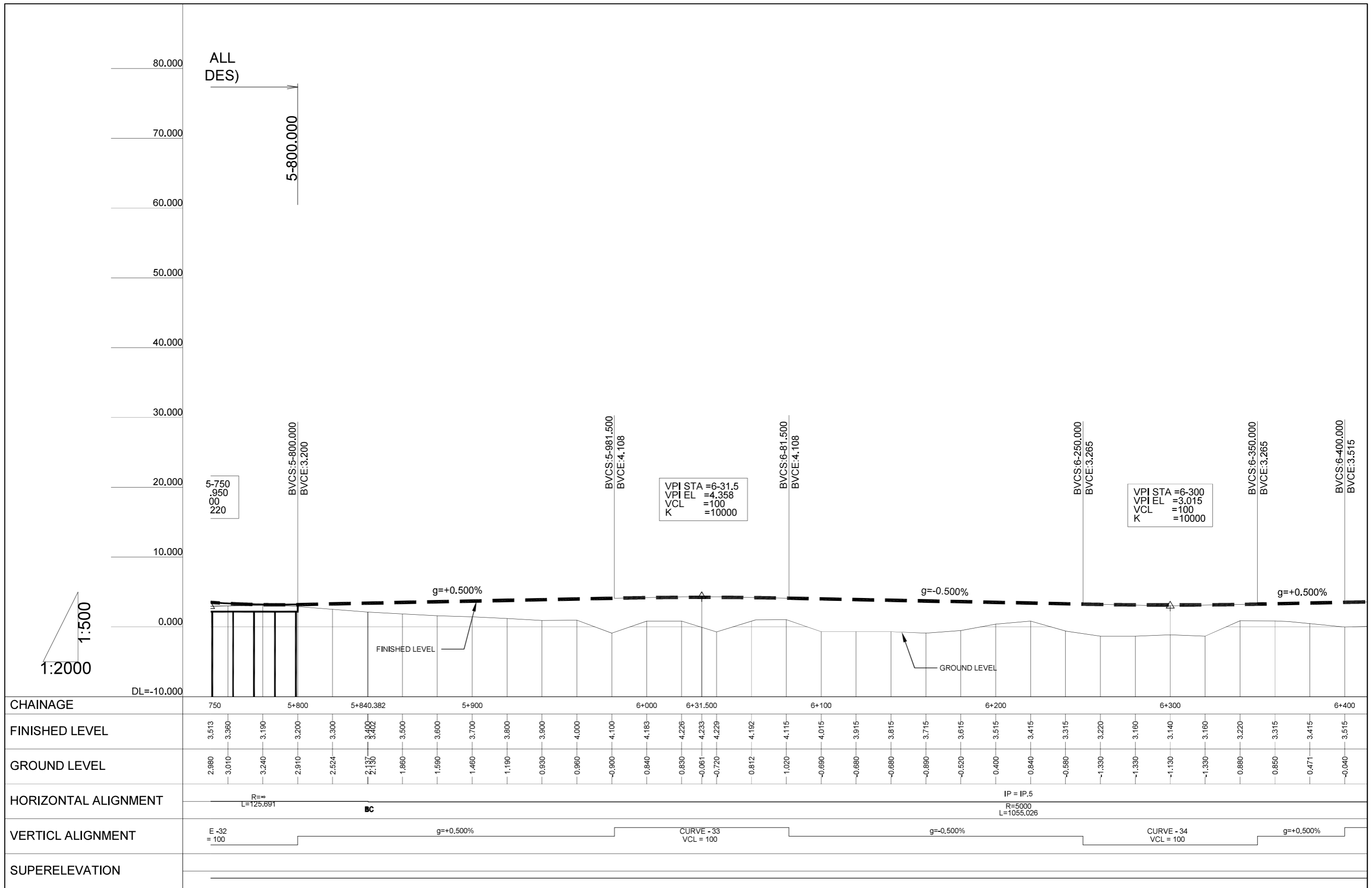



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(8)			Rev No.
			DRAWING No. RR-RD-0108	SCALE V=1:500 S=1:2000		

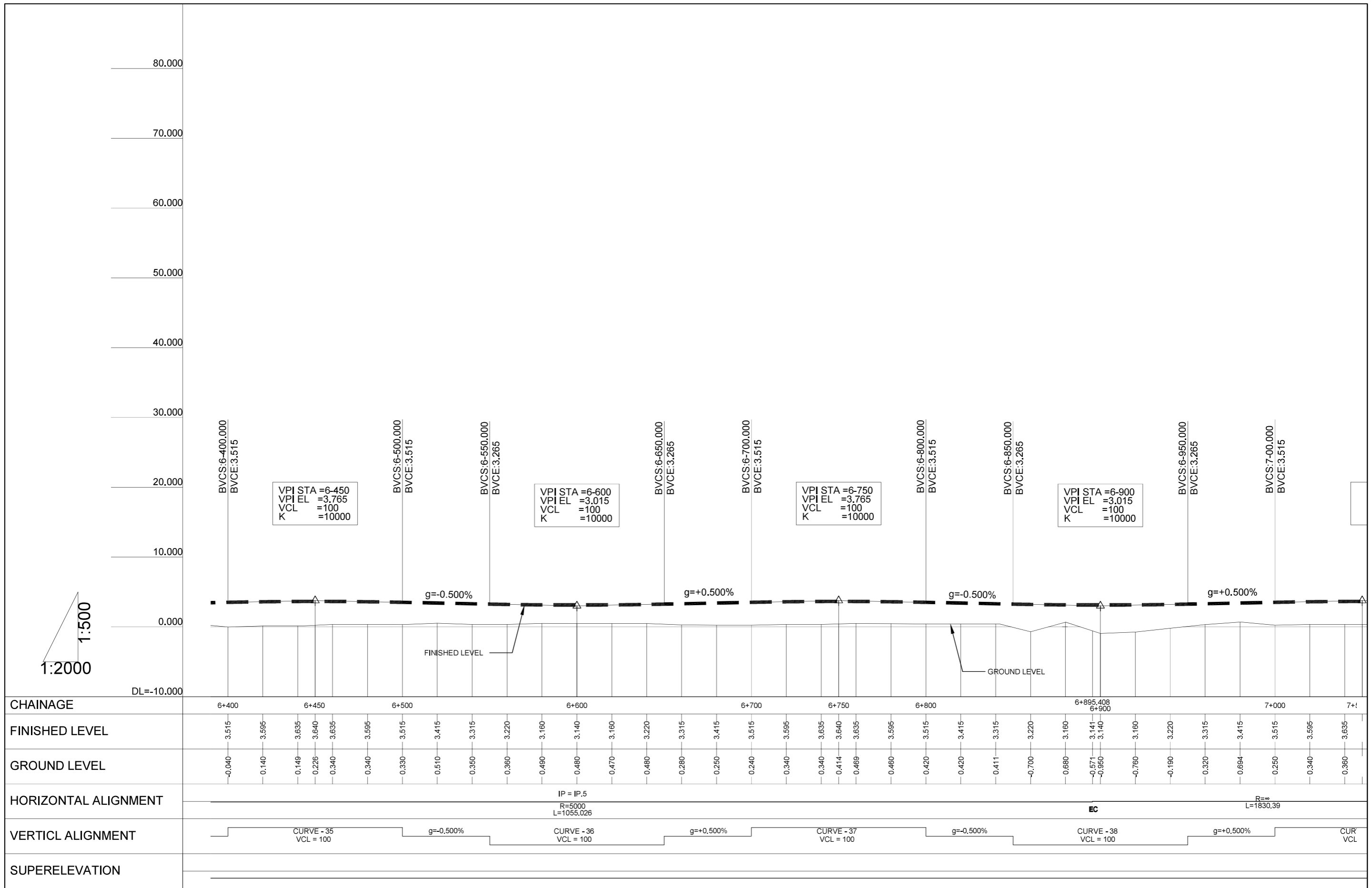



CHAINAGE	5+134.407	5+200	5+250	5+300	5+400	5+485	5+500	5+600	5+633.692	5+700	5+714.892	5+750																															
FINISHED LEVEL	3.600	3.528	3.500	3.400	3.300	3.200	3.190	3.360	3.513	3.710	4.240	4.950	5.750	6.550	7.350	8.150	8.883	9.483	9.950	10.283	10.483	10.513	10.550	10.533	10.483	10.283	9.950	9.483	8.883	8.150	7.602	7.350	6.550	5.750	4.950	4.411	4.240	3.710	3.513	3.360			
GROUND LEVEL	2.087	2.670	1.883	1.910	1.900	1.890	1.890	1.890	1.890	1.890	1.930	2.010	2.020	2.020	2.020	2.020	2.030	1.870	1.870	2.640	2.960	2.960	2.925	2.760	2.790	2.820	2.650	2.590	2.440	2.600	2.670	2.680	2.690	2.700	2.710	2.710	2.710	2.710	2.720	2.780	2.950	2.980	3.010
HORIZONTAL ALIGNMENT	SC												IP = IP.4 L=499.284 R=400						CS				SC				L=81 A=180																
VERTICAL ALIGNMENT	.500%		CURVE -30 VCL = 100						g=+4.000%						CURVE -31 VCL = 240						g=-4.000%				CURVE -32 VCL = 100																		
SUPERELEVATION																																											

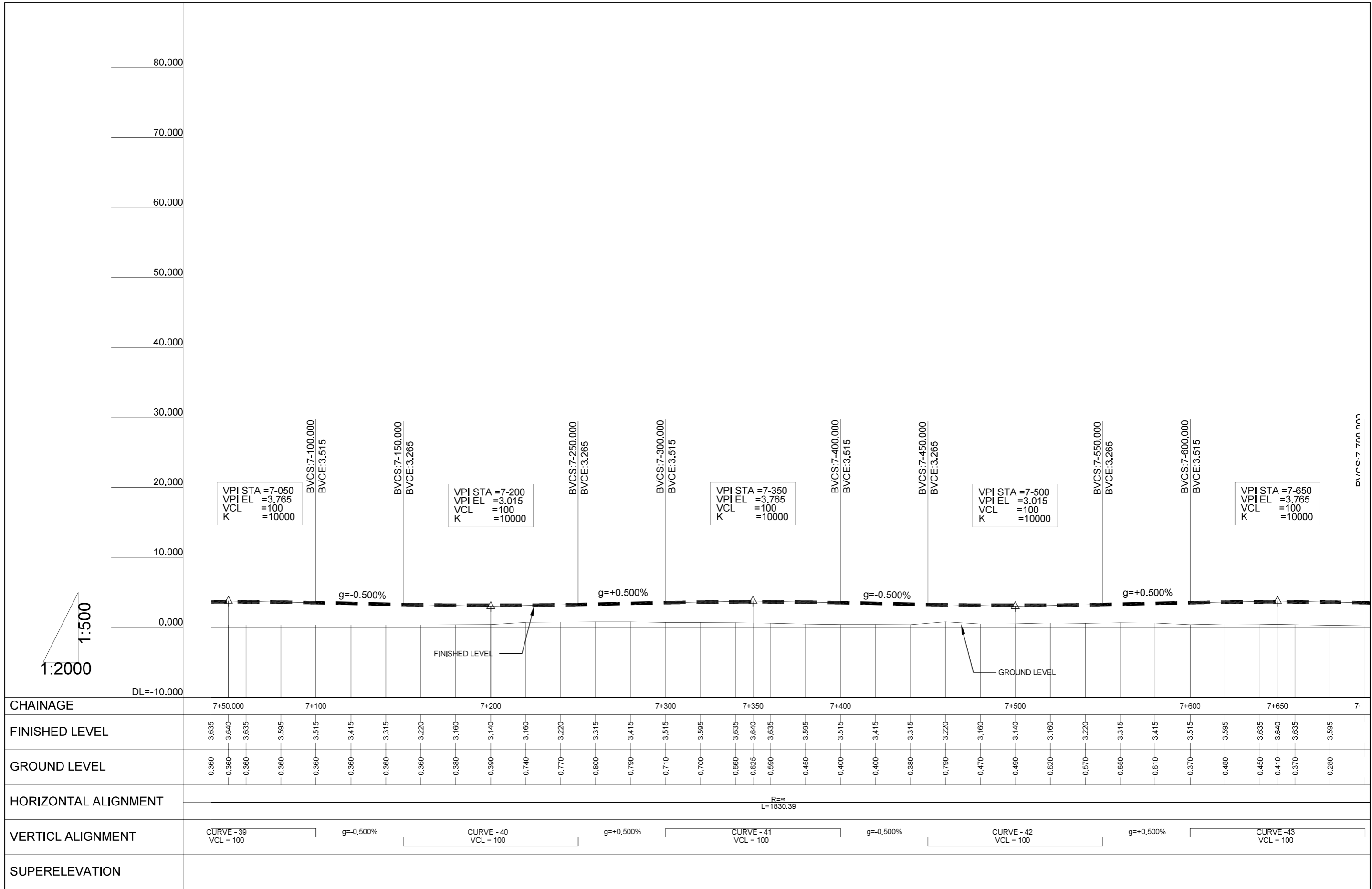
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(9)				Rev No.
			DRAWING No. RR-RD-0109	SCALE V=1:500 S=1:2000			




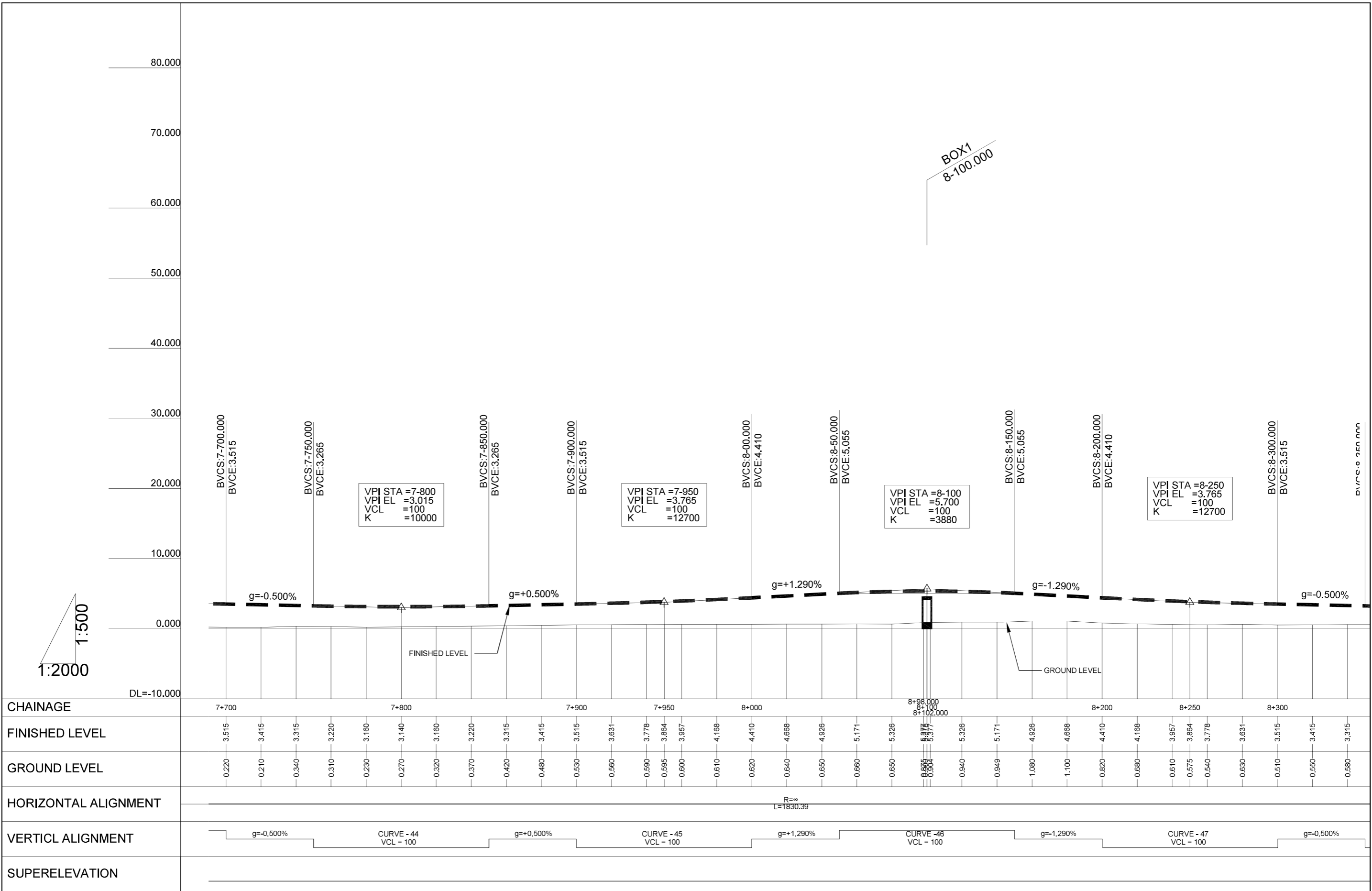
PROJECT:	PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(10)			Rev No.
				DRAWING No.	RR-RD-0110	SCALE	



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(11)			Rev No.
			DRAWING No. RR-RD-0111	SCALE V=1:500 S=1:2000		

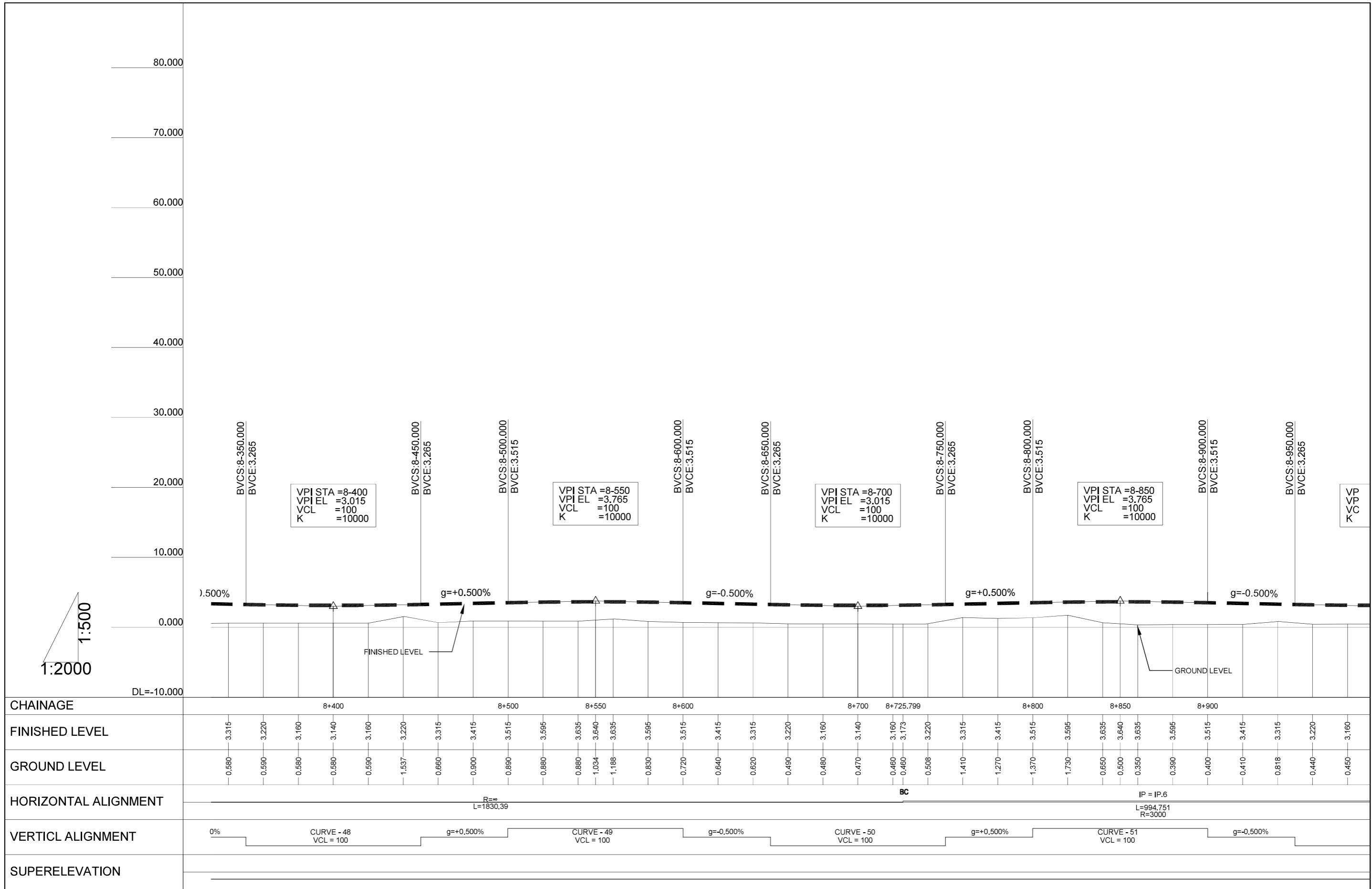



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(12)			Rev No.
			DRAWING No. RR-RD-0112	SCALE V=1:500 S=1:2000		

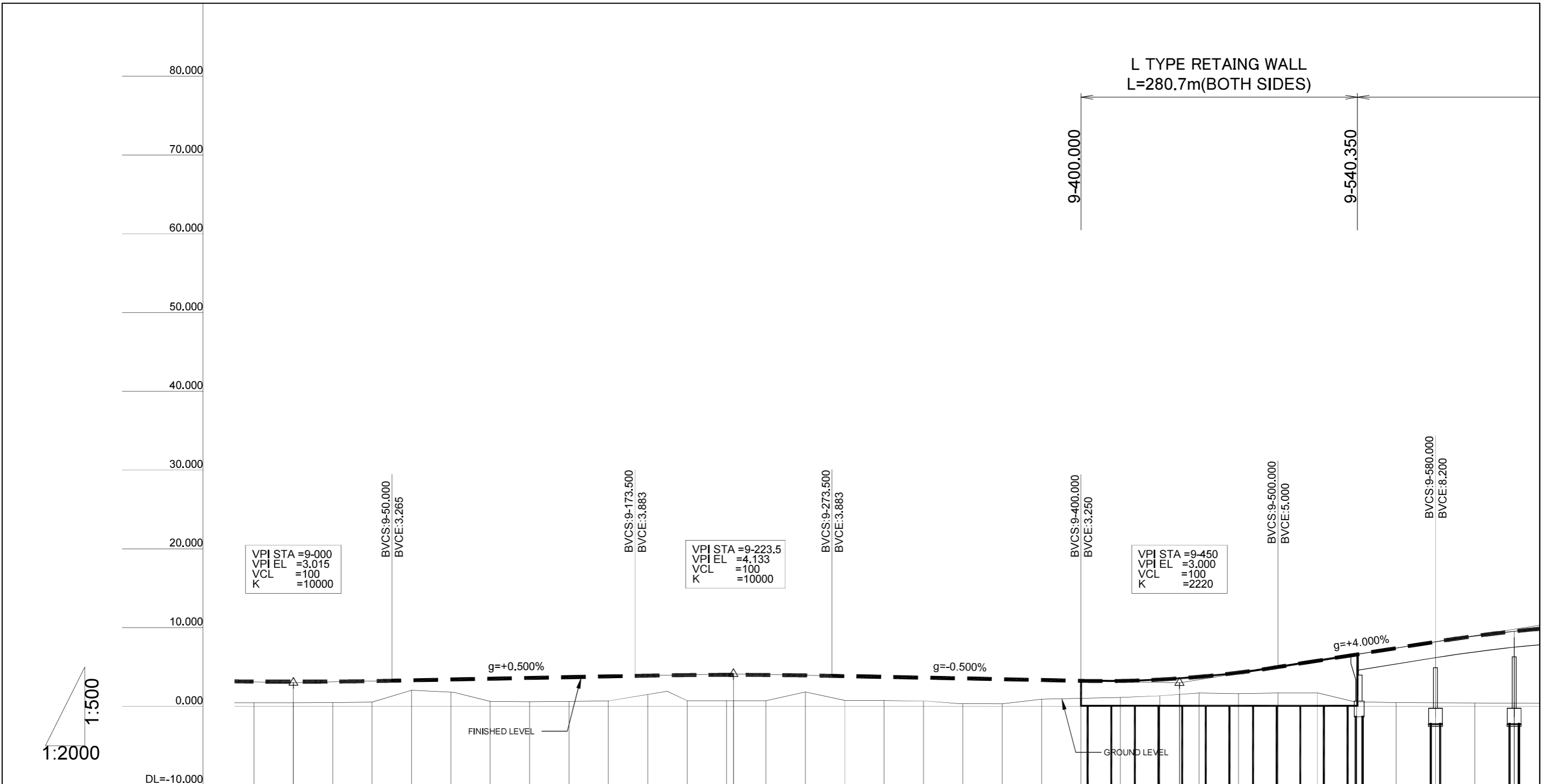


CHAINAGE	7+700	7+800	7+900	7+950	8+000	8+100.000	8+200	8+250	8+300																									
FINISHED LEVEL	3.515	3.415	3.315	3.220	3.160	3.140	3.160	3.220	3.315	3.415	3.515																							
GROUND LEVEL	0.220	0.210	0.340	0.310	0.230	0.270	0.320	0.370	0.420	0.480	0.530	0.560	0.590	0.595	0.600	0.610	0.620	0.640	0.650	0.660	0.650	0.940	0.949	1.080	1.100	0.820	0.680	0.610	0.575	0.540	0.630	0.510	0.550	0.580
HORIZONTAL ALIGNMENT	R=∞ L=1830.39																																	
VERTICAL ALIGNMENT	g=-0.500%		CURVE - 44 VCL = 100			g=+0.500%			CURVE - 45 VCL = 100			g=+1.290%			CURVE - 46 VCL = 100			g=-1.290%			CURVE - 47 VCL = 100			g=-0.500%										
SUPERELEVATION																																		


PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(13)			Rev No.
			DRAWING No. RR-RD-0113	SCALE V=1:500 S=1:2000		

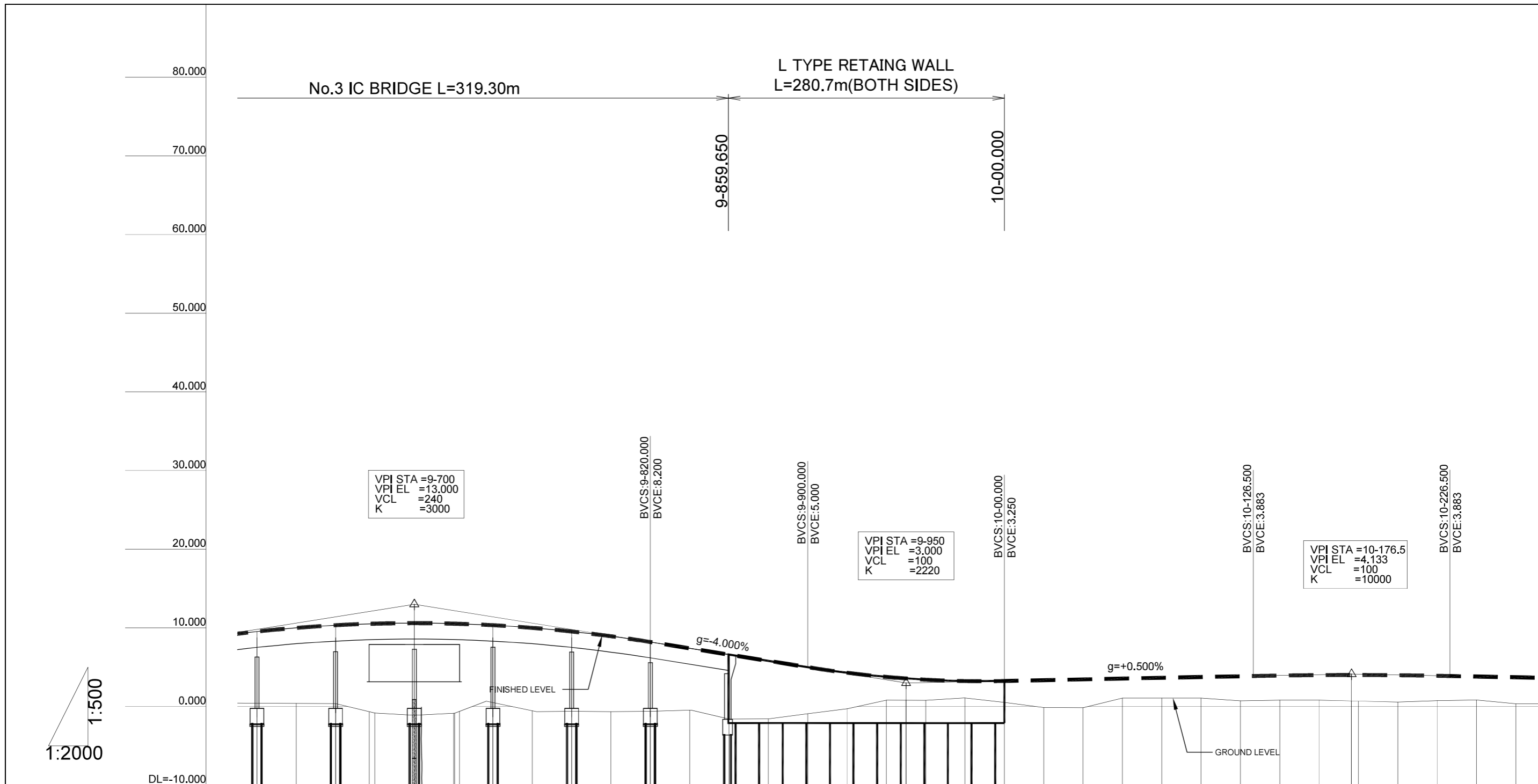


PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(14)			Rev No.
			DRAWING No. RR-RD-0114	SCALE V=1:500 S=1:2000		



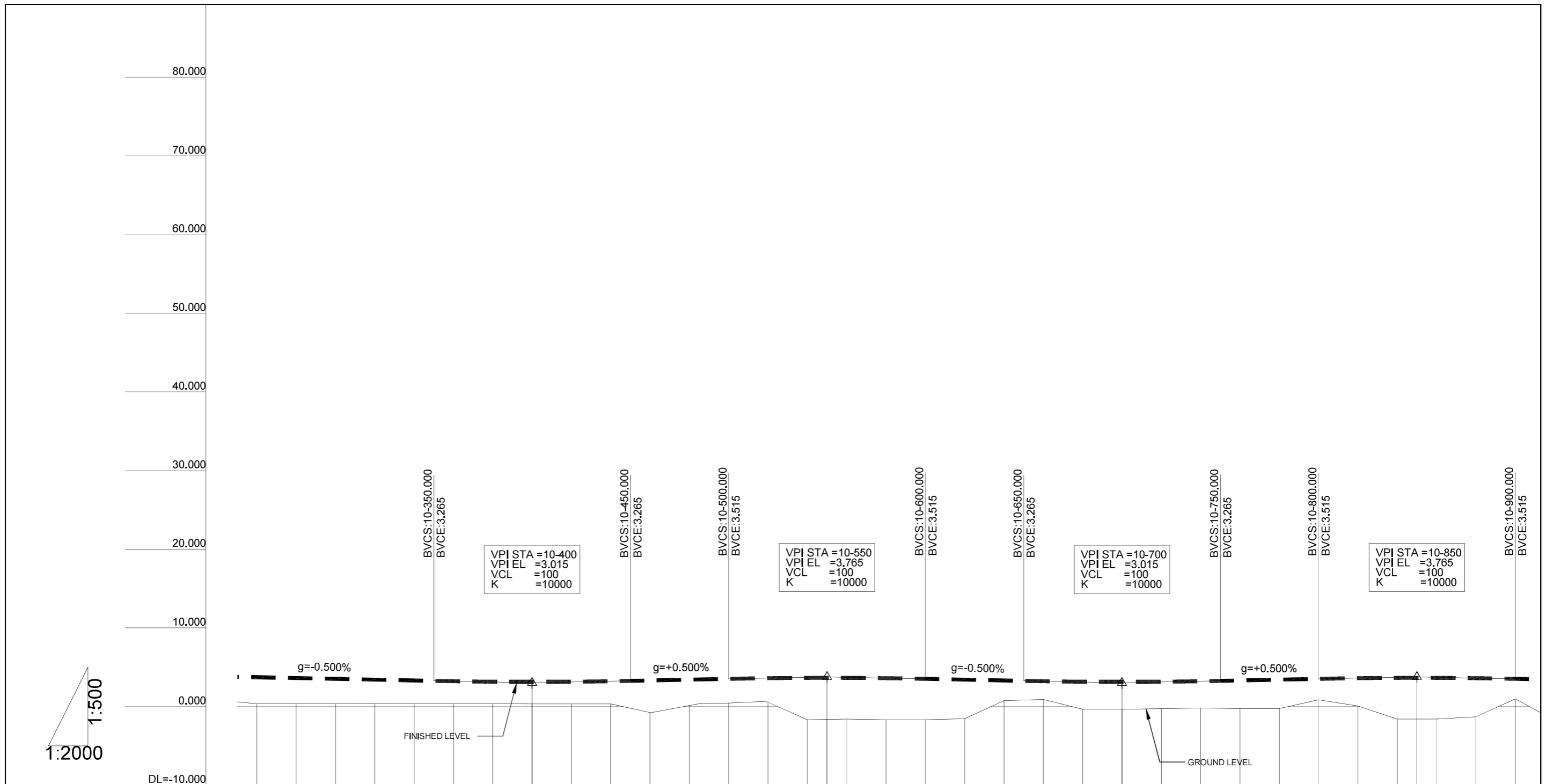
CHAINAGE	9+000	9+100	9+200	9+223.500	9+300	9+400	9+450	9+500	9+600																										
FINISHED LEVEL	3.160	3.140	3.180	3.220	3.315	3.415	3.515	3.615	3.715	3.815	3.913	3.980	4.007	4.008	3.994	3.941	3.850	3.750	3.650	3.550	3.450	3.350	3.250	3.240	3.410	3.563	3.760	4.290	5.000	5.800	6.600	7.400	8.200	8.933	9.533
GROUND LEVEL	0.450	0.450	0.470	0.530	2.060	1.808	0.630	0.580	0.630	0.719	1.512	0.730	0.730	0.730	0.740	1.840	0.780	0.760	0.670	0.347	0.320	0.930	1.030	1.140	1.340	1.520	1.700	1.624	1.710	1.710	0.574	0.470	0.450	0.430	0.420
HORIZONTAL ALIGNMENT	IP = IP.6										L=994.751 R=3000																								
VERTICAL ALIGNMENT	CURVE - 52 VCL = 100			g=+0.500%			CURVE - 53 VCL = 100			g=-0.500%			CURVE - 54 VCL = 100			g=+4.000%																			
SUPERELEVATION																																			

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(15)			Rev No.
			DRAWING No.	RR-RD-0115	SCALE	V=1:500 S=1:2000




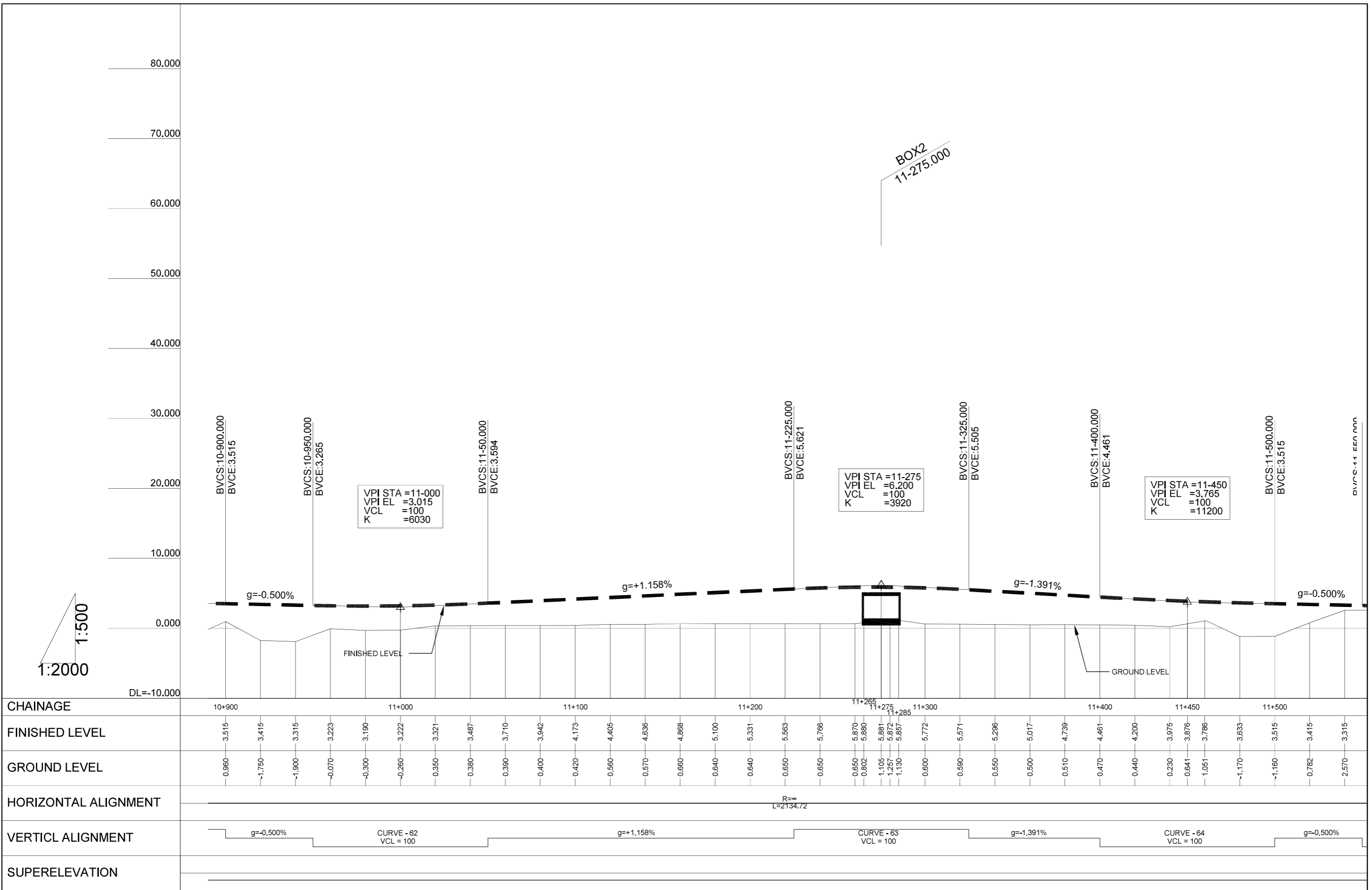
CHAINAGE	9+677	9+700	9+720.549 9+723	9+800	9+900	9+950	10+000	10+100	10+176.500	10+200	
FINISHED LEVEL	9.533	10.000	10.333	10.512	10.533	10.600	10.533	10.333	10.000	9.533	
GROUND LEVEL	-0.420	-0.390	-0.370	-0.856	-0.856	-1.120	-0.856	0.514	-0.537	-0.610	
HORIZONTAL ALIGNMENT	IP = IP.6 L=994.751 R=3000			EC			R=∞ L=2134.72				
VERTICAL ALIGNMENT	CURVE - 55 VCL = 240			g = -4.000%			CURVE - 56 VCL = 100		g = +0.500%		CURVE - 57 VCL = 100
SUPERELEVATION											

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(16)				Rev No.
			DRAWING No.	RR-RD-0116	SCALE	V=1:500 S=1:2000	



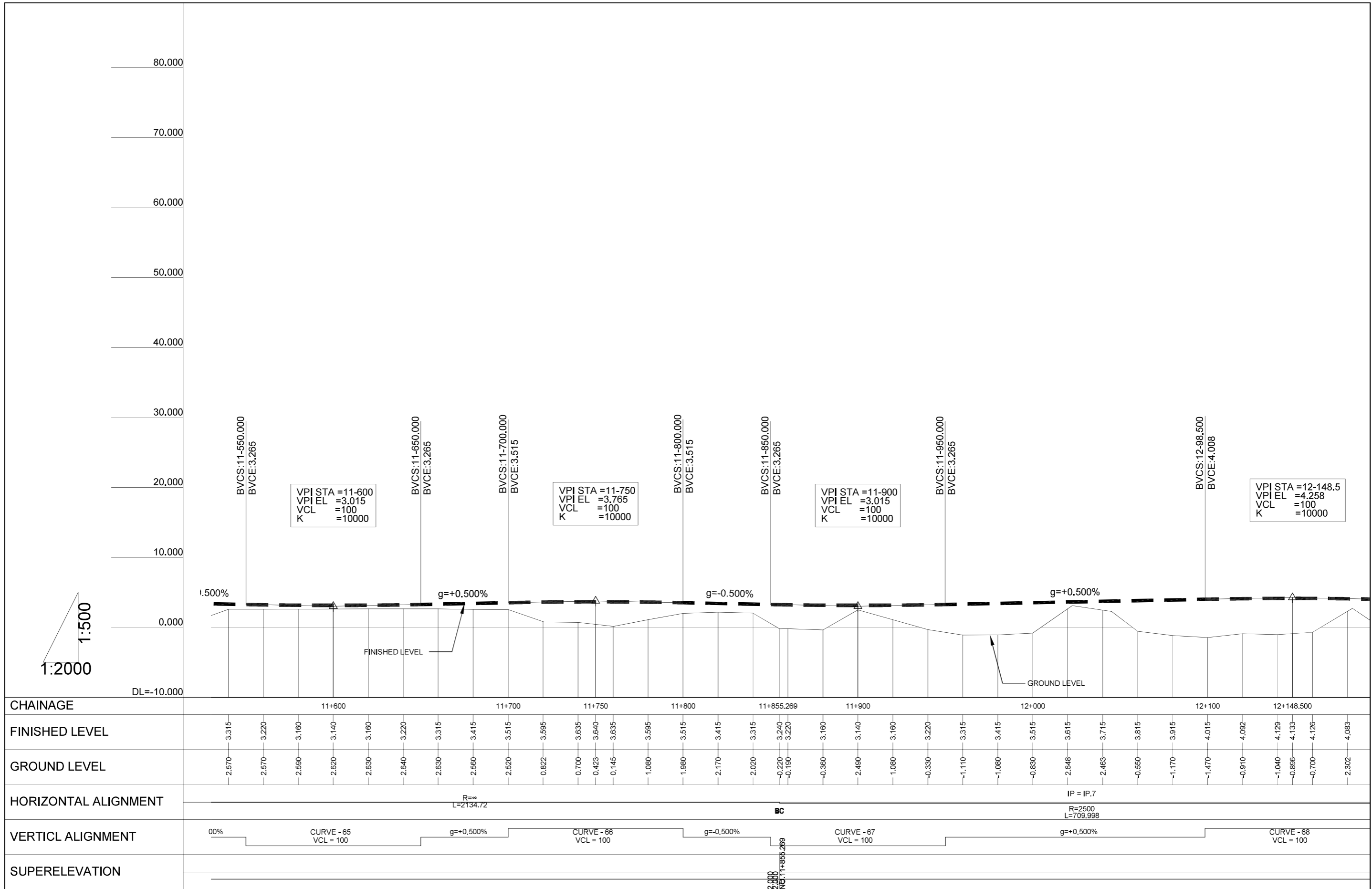
CHAINAGE	10+300	10+400	10+500	10+550	10+600	10+700	10+800	10+850	10+900	
FINISHED LEVEL	3.715	3.615	3.515	3.415	3.315	3.220	3.160	3.140	3.160	
GROUND LEVEL	-0.340	-0.350	-0.360	-0.370	-0.350	-0.340	-0.340	-0.330	-0.320	
HORIZONTAL ALIGNMENT	R=∞ L=2134.72									
VERTICAL ALIGNMENT	g=-0.500%		CURVE - 58 VCL = 100		g=+0.500%		CURVE - 59 VCL = 100		g=-0.500%	
SUPERELEVATION										

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(17)			Rev No.
			DRAWING No.	RR-RD-0117	SCALE	V=1:500 S=1:2000




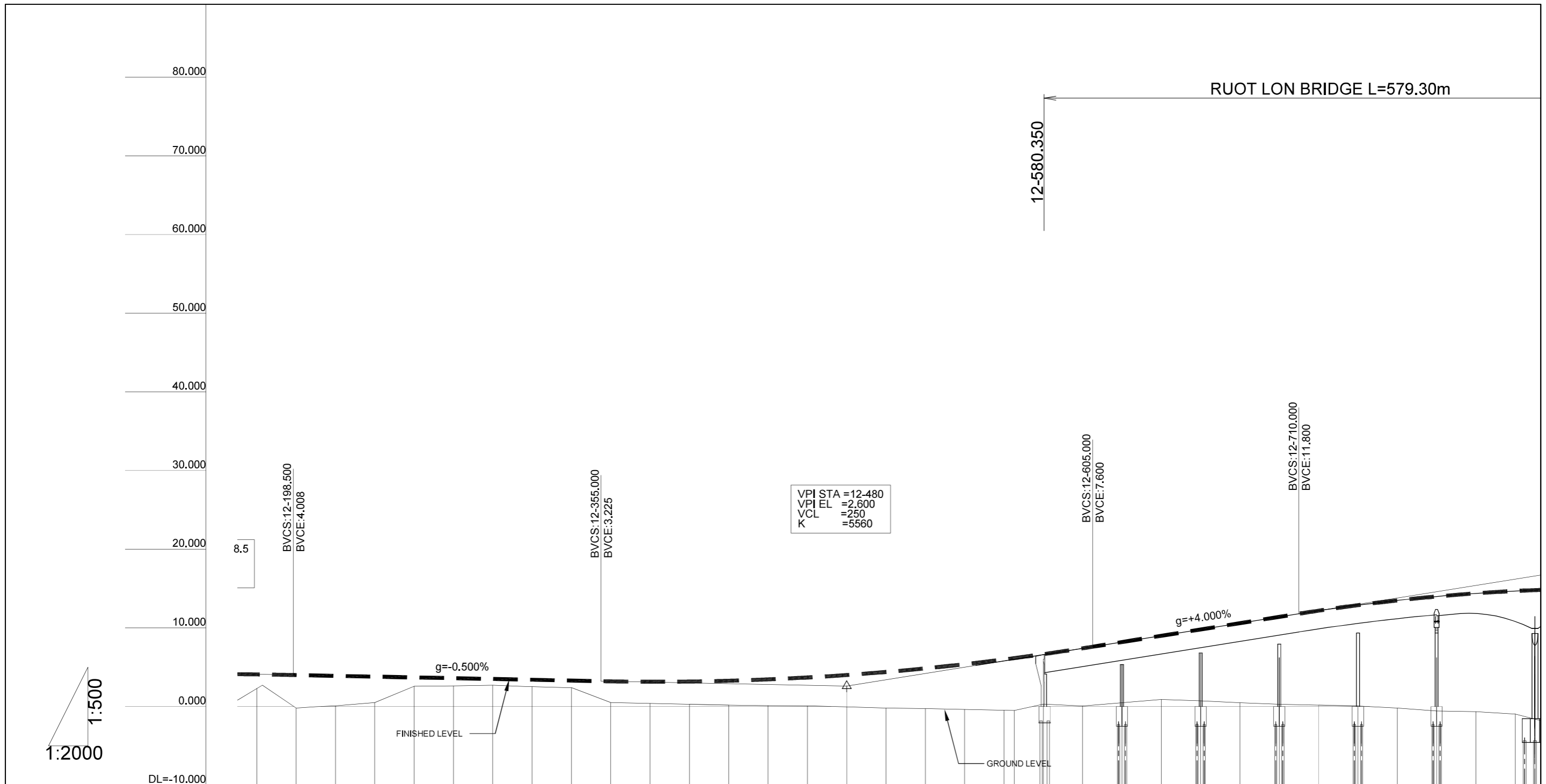
CHAINAGE	10+900	11+000	11+100	11+200	11+300	11+400	11+500																															
FINISHED LEVEL	3.515	3.415	3.315	3.223	3.190	3.222	3.321	3.487	3.710	3.942	4.173	4.405	4.636	4.868	5.100	5.331	5.563	5.766	5.870	5.880	5.881	5.872	5.857	5.772	5.571	5.296	5.017	4.739	4.461	4.200	3.975	3.876	3.786	3.633	3.515	3.415	3.315	
GROUND LEVEL	-0.960	-1.750	-1.900	-0.070	-0.300	-0.260	0.350	0.380	0.390	0.400	0.420	0.560	0.570	0.660	0.640	0.640	0.650	0.650	0.650	0.650	0.802	1.105	1.257	1.130	0.600	0.590	0.550	0.500	0.510	0.470	0.440	0.230	0.641	1.051	-1.170	-1.160	-0.782	-2.570
HORIZONTAL ALIGNMENT	R=∞ L=2134.72																																					
VERTICAL ALIGNMENT	g=-0.500%		CURVE - 62 VCL = 100				g=+1.158%				CURVE - 63 VCL = 100				g=-1.391%				CURVE - 64 VCL = 100				g=-0.500%															
SUPERELEVATION																																						

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(18)			Rev No.
			DRAWING No. RR-RD-0118	SCALE V=1:500 S=1:2000		




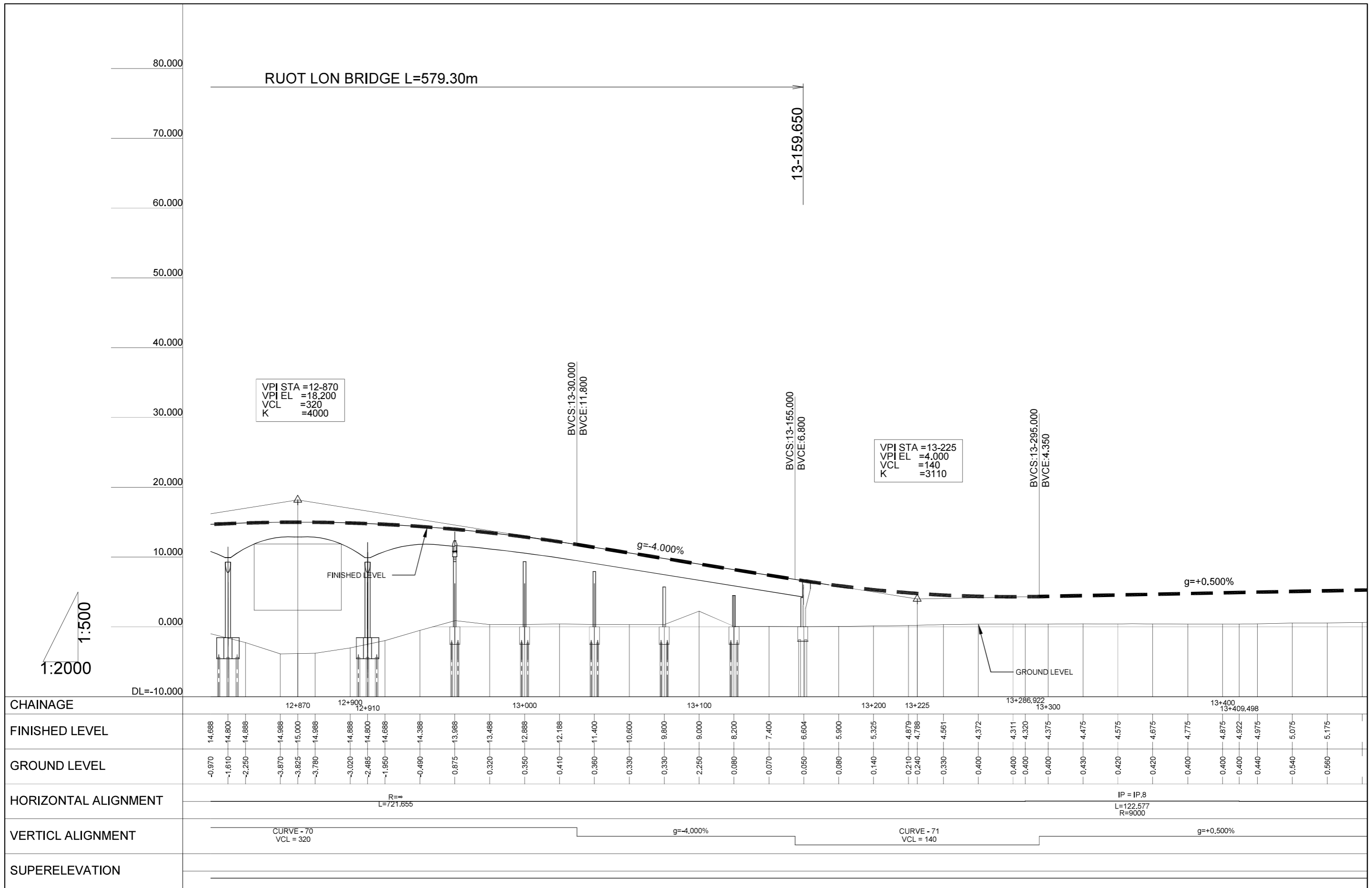
CHAINAGE	11+550.000	11+600	11+700	11+750	11+800	11+855.269	11+900	12+000	12+100	12+148.500																										
FINISHED LEVEL	3.315	3.220	3.180	3.140	3.160	3.220	3.315	3.415	3.515	3.615	3.715	3.815	3.915	4.015	4.092	4.129	4.133	4.126	4.083																	
GROUND LEVEL	-2.570	-2.570	-2.590	-2.620	-2.630	-2.640	-2.630	-2.560	-2.520	-0.822	-0.700	-0.423	-0.145	-1.080	-1.980	-2.170	-2.020	-0.220	-0.190	-0.360	-2.490	-1.080	-0.330	-1.110	-1.080	-0.830	-2.648	-2.463	-0.550	-1.170	-1.470	-0.910	-1.040	-0.896	-0.700	-2.302
HORIZONTAL ALIGNMENT	R=∞ L=2134.72										BC	IP = IP.7 R=2500 L=709.998																								
VERTICAL ALIGNMENT	00%		CURVE - 65 VCL = 100		g=+0.500%		CURVE - 66 VCL = 100		g=-0.500%		CURVE - 67 VCL = 100		g=+0.500%		CURVE - 68 VCL = 100																					
SUPERELEVATION																																				

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		DRAWING TITLE: RING ROAD 3RD PROFILE(19)				Rev No.
		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.		DRAWING No.	RR-RD-0119	SCALE	V=1:500 S=1:2000	



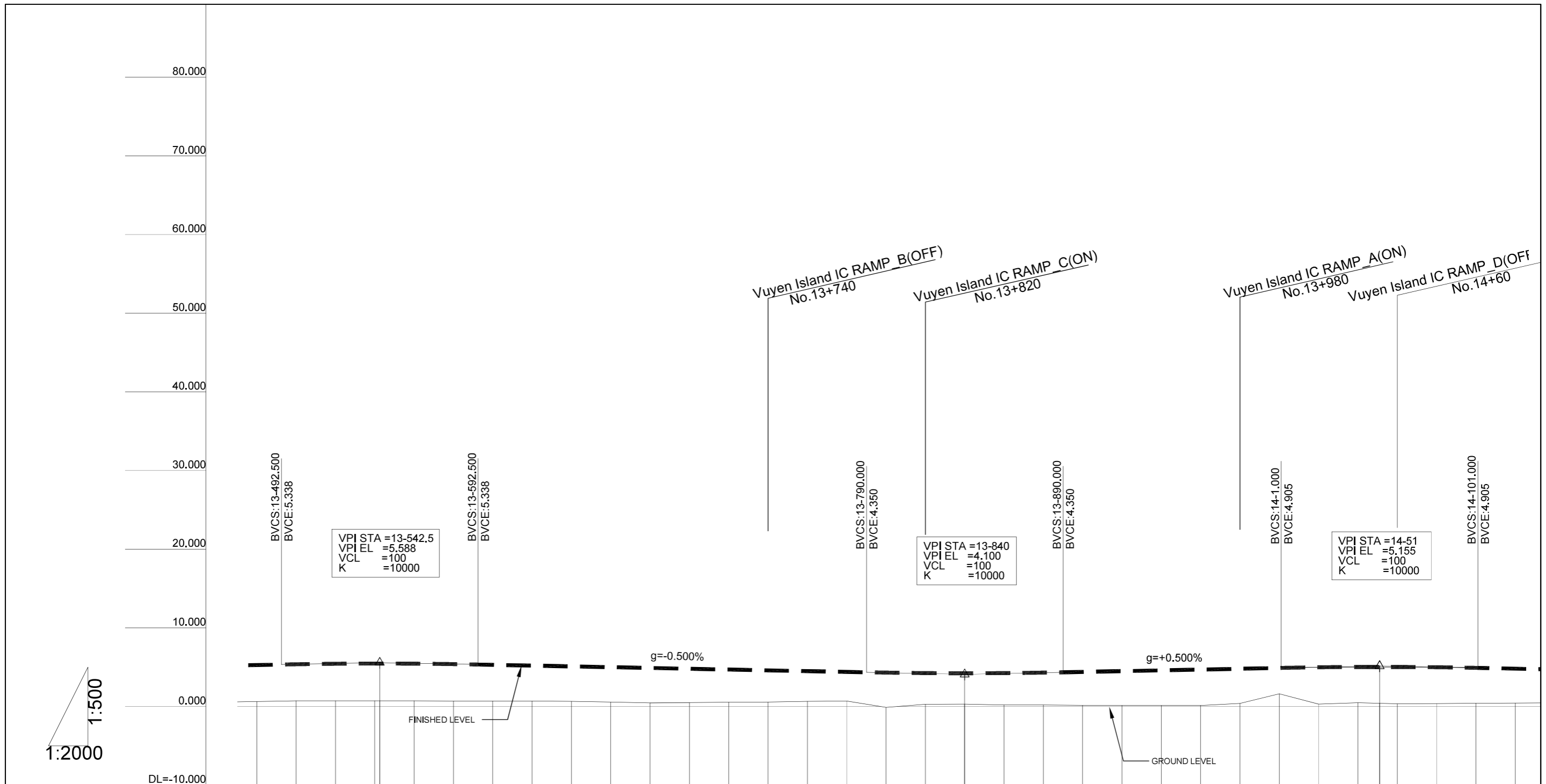
CHAINAGE	12+200	12+300	12+400	12+480	12+500	12+565.267	12+600	12+700	12+800																													
FINISHED LEVEL	4.083	4.000	3.900	3.800	3.700	3.600	3.500	3.400	3.300	3.202	3.156	3.182	3.280	3.450	3.692	4.008	4.392	4.850	5.380	5.982	6.153	6.656	7.402	8.200	9.000	9.800	10.600	11.400	12.188	12.888	13.488	13.988	14.388	14.888				
GROUND LEVEL	-2.302	-0.210	0.100	0.490	2.570	2.620	2.700	2.520	2.392	0.500	0.400	0.290	0.190	0.120	0.090	-0.080	-0.210	-0.260	-0.380	-0.475	-0.500	0.310	0.080	0.490	0.900	0.740	0.470	0.290	0.170	0.080	-0.190	-0.550	-0.640	-0.970				
HORIZONTAL ALIGNMENT	IP = IP.7 R=2500 L=709.998										EC R=∞ L=721.655																											
VERTICAL ALIGNMENT	g=-0.500%										CURVE - 69 VCL = 250 g=+4.000%																											
SUPERELEVATION																																						

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(20)				Rev No.
			DRAWING No.	RR-RD-0120	SCALE	V=1:500 S=1:2000	




CHAINAGE		12+870	12+900	12+910		13+000		13+900		13+100		13+200	13+225		13+286.922	13+300		13+400	13+409.498																							
FINISHED LEVEL		14.688	14.800	14.888		14.988	15.000	14.988		14.888	14.800	14.688	14.388	13.988	13.488	12.988	11.400	10.600	9.800	9.000	8.200	7.400	6.604	5.900	5.325	4.879	4.788	4.561	4.372	4.311	4.320	4.375	4.475	4.575	4.675	4.775	4.875	4.922	4.975	5.075	5.175	
GROUND LEVEL		-0.970	-1.610	-2.250		-3.870	-3.825	-3.780		-3.020	-2.485	-1.950	-0.490	0.875	0.320	0.350	0.410	0.360	0.330	0.330	2.250	0.080	0.070	0.050	0.080	0.140	0.210	0.240	0.330	0.400	0.400	0.400	0.400	0.430	0.420	0.420	0.400	0.400	0.400	0.440	0.540	0.560
HORIZONTAL ALIGNMENT		R=∞, L=721.655																		IP = IP.8, L=122.577, R=9000																						
VERTICAL ALIGNMENT		CURVE - 70, VCL = 320			g = -4.000%												CURVE - 71, VCL = 140			g = +0.500%																						
SUPERELEVATION																																										

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(21)				Rev No.
			DRAWING No.	RR-RD-0121	SCALE	V=1:500 S=1:2000	



CHAINAGE	13+500	13+542.500	13+600	13+700	13+800	13+900	14+000	14+51.000	14+100																													
FINISHED LEVEL	5.275	5.372	5.437	5.463	5.447	5.392	5.300	5.200	5.100	5.000	4.900	4.800	4.700	4.600	4.500	4.400	4.305	4.245	4.225	4.245	4.305	4.400	4.500	4.600	4.700	4.800	4.900	4.982	5.024	5.030	5.026	4.988	4.910	4.810				
GROUND LEVEL	-0.620	0.740	0.740	0.740	0.730	0.720	0.710	0.700	0.640	0.560	0.460	0.500	0.530	0.560	0.640	0.700	-0.110	0.280	0.300	0.200	0.210	0.160	0.130	0.130	0.130	0.390	1.620	0.300	0.480	0.414	0.360	0.380	0.420	0.440				
HORIZONTAL ALIGNMENT	R=∞ L=1693.531																																					
VERTICAL ALIGNMENT	CURVE - 72 VCL = 100			g=-0.500%						CURVE - 73 VCL = 100						g=+0.500%				CURVE - 74 VCL = 100																		
SUPERELEVATION																																						

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(22)			Rev No.
			DRAWING No. RR-RD-0122	SCALE V=1:500 S=1:2000		

VU YEN BRIDGE L=3147.30m

14-356.350

D(OFF)
+60

1:500
1:2000

DL=-10.000

VPI STA = 14-280
VPI EL = 4.010
VCL = 100
K = 3330

BVCS: 14-230.000
BVCE: 4.260

BVCS: 14-330.000
BVCE: 5.260

g=-0.500%

g=+2.500%

FINISHED LEVEL

GROUND LEVEL

CHAINAGE	14+200																												14+280		14+300		14+400						14+500						14+600						14+700					
FINISHED LEVEL	4.810	4.710	4.610	4.510	4.410	4.310	4.225	4.245	4.385	4.645	5.025	5.510	6.010	6.510	7.010	7.510	8.010	8.510	9.010	9.510	10.010	10.510	11.010	11.510	12.010	12.510	13.010	13.510	14.010	14.510	15.010	15.510	16.010																							
GROUND LEVEL	0.440	0.480	0.460	0.380	0.420	0.510	0.530	0.410	0.460	0.590	0.700	0.770	0.780	0.790	0.800	0.810	0.820	0.830	0.850	0.870	0.900	0.920	0.929	0.720	0.570	0.560	0.520	0.520	0.510	0.520	0.550	0.570	0.610																							
HORIZONTAL ALIGNMENT	R=∞ L=1693.631																																																							
VERTICAL ALIGNMENT	g=-0.500%								CURVE - 75 VCL = 100												g=+2.500%																																			
SUPERELEVATION																																																								

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

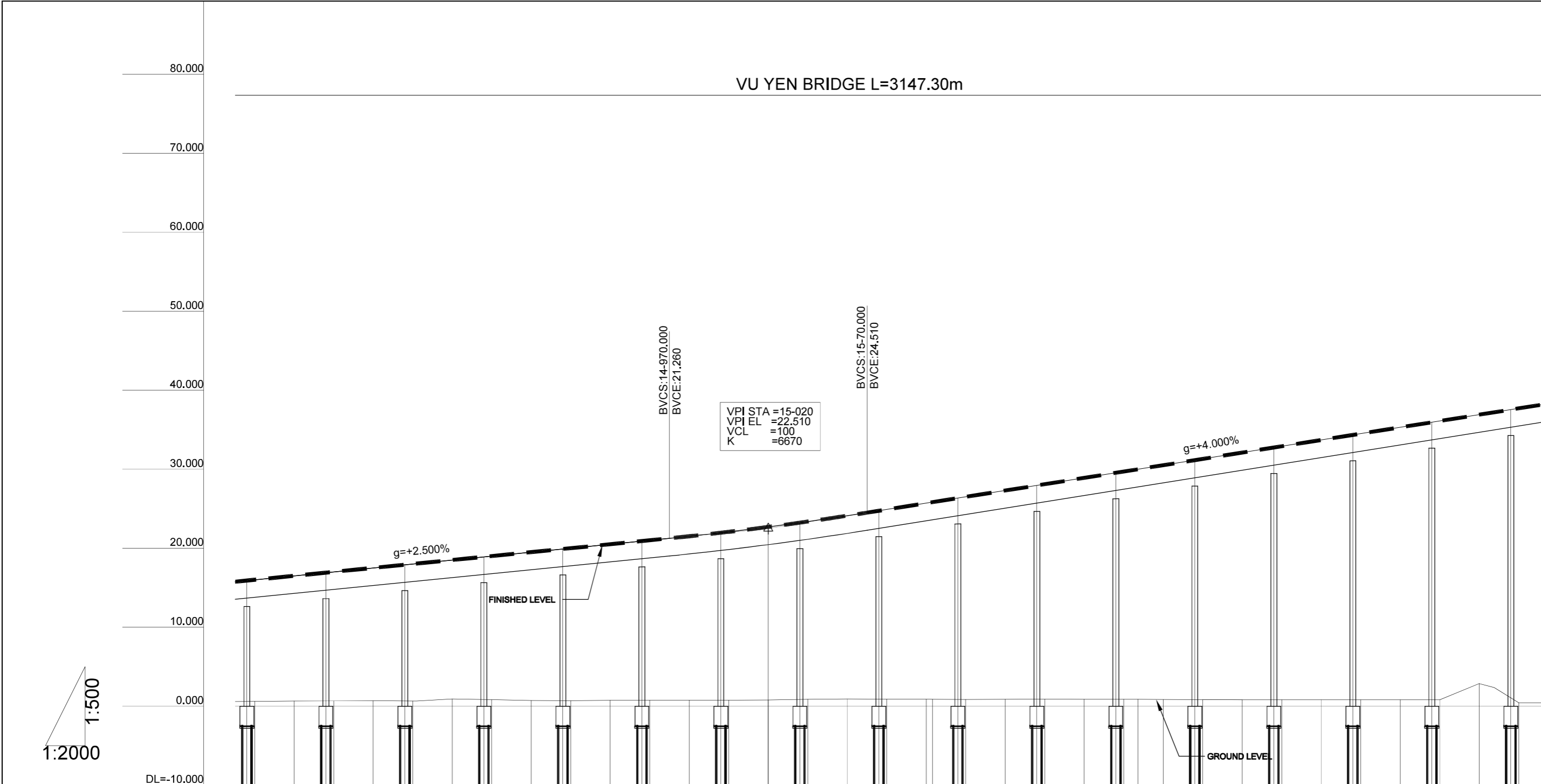


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.


DRAWING TITLE: RING ROAD 3RD PROFILE(23)
DRAWING No. RR-RD-0123 SCALE V=1:500 S=1:2000

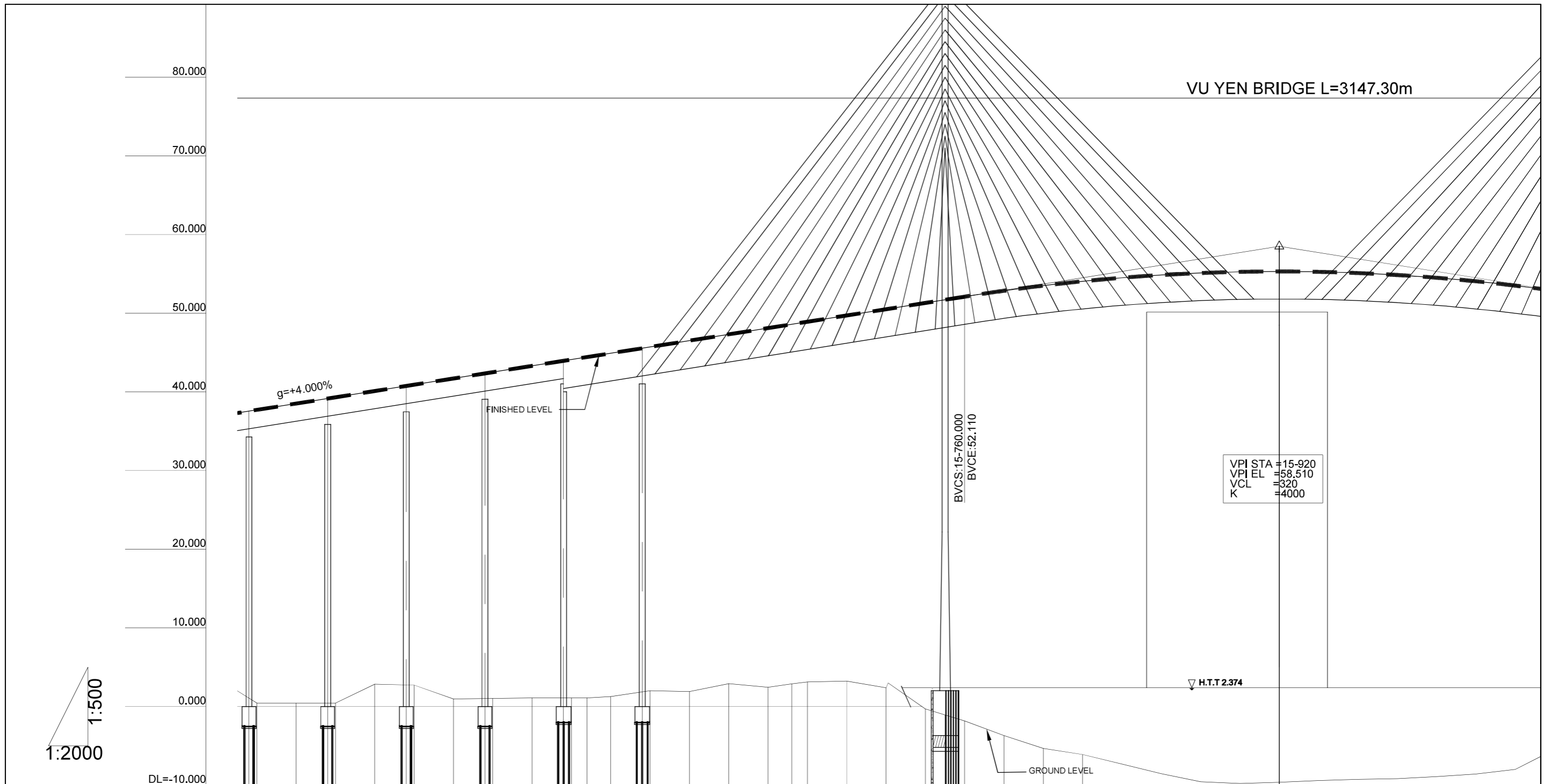
Rev No.

VU YEN BRIDGE L=3147.30m



CHAINAGE		14+800		14+900		15+000	15+20		15+103.120 15+100		15+200		15+300		15+400																							
FINISHED LEVEL		16.010	16.510	17.010	17.510	18.010	18.510	19.010	19.510	20.010	20.510	21.010	21.518	22.078	22.698	23.378	24.118	24.910	25.710	25.835	26.510	27.310	28.110	28.910	29.710	30.002	30.510	31.310	32.110	32.910	33.710	34.510	35.310	36.110	36.910	37.710		
GROUND LEVEL		0.610	0.640	0.660	0.700	0.655	0.920	0.830	0.740	0.710	0.750	0.760	0.770	0.780	0.800	0.870	0.930	0.910	0.880	0.880	0.860	0.870	0.870	0.890	0.880	0.880	0.870	0.850	0.830	0.820	0.820	0.820	0.820	0.820	0.820	0.820	2.878	0.440
HORIZONTAL ALIGNMENT		R=∞ L=1693.631										L=104.167 A=250										IP = IP,9 L=360.574 R=600																
VERTICAL ALIGNMENT		CURVE - 76 VCL = 100																																				
SUPERELEVATION																																						

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(24)				Rev No.
			DRAWING No.	RR-RD-0124	SCALE	V=1:500 S=1:2000	



CHAINAGE	15+400	15+500	15+567.871	15+600	15+672.038	15+700	15+750	15+800	15+900	15+920	16+000																									
FINISHED LEVEL	-37.710	-36.510	-38.310	-40.110	-40.910	-41.710	-42.510	-43.310	-44.110	-44.425	-44.910	-45.710	-46.510	-47.310	-48.110	-48.592	-48.910	-49.710	-50.510	-51.310	-51.710	-52.110	-52.860	-53.510	-54.060	-54.510	-54.860	-55.110	-55.260	-55.310	-55.260	-55.110	-54.860	-54.510	-54.060	-53.510
GROUND LEVEL	0.440	0.440	0.440	2.850	2.730	0.970	1.020	1.080	1.090	1.100	1.250	2.010	1.900	2.900	2.440	2.880	3.130	3.230	2.380	-0.300	-1.065	-1.830	-3.690	-5.330	-6.110	-7.310	-8.530	-9.570	-9.780	-9.630	-9.400	-9.250	-9.180	-8.910	-8.590	-7.990
HORIZONTAL ALIGNMENT	IP = IP.9 L=360.574 R=600										L=104.167 A=250										R=∞ L=419.82															
VERTICAL ALIGNMENT	g=+4.000%																				CURVE - 77 VCL = 320															
SUPERELEVATION																																				

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

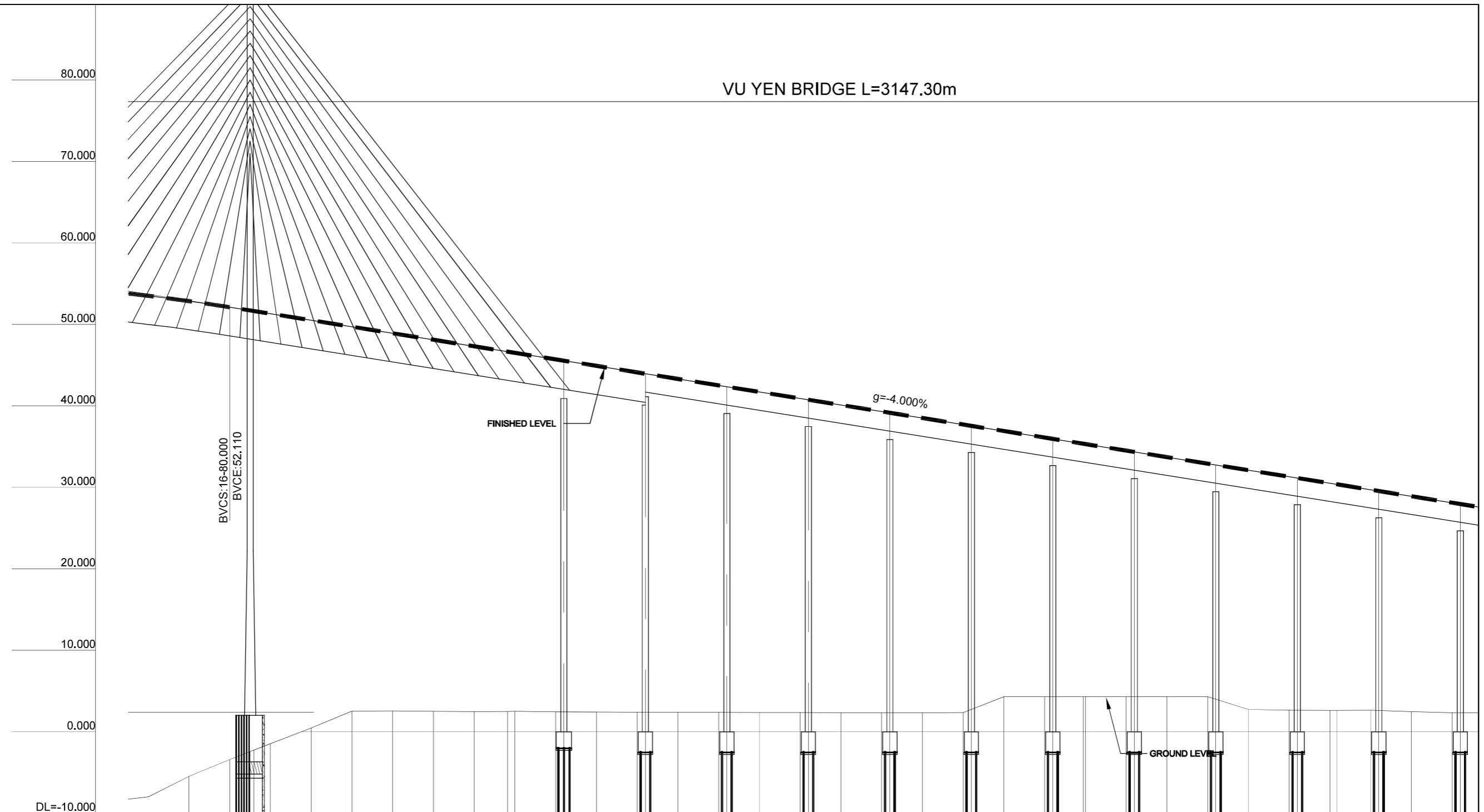


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PROFILE(25)
DRAWING No. RR-RD-0125 SCALE V=1:500 S=1:2000

Rev No.

VU YEN BRIDGE L=3147.30m



CHAINAGE	16+900 16+91.857 16+100	16+200 16+216.312	16+300	16+400	16+500 16+498.984	16+600	16+623.439
FINISHED LEVEL	-53.510 -52.860 -52.110 -51.636 -51.310	-50.510 -49.710 -48.910 -48.110 -47.310	-46.568 -46.510 -45.710 -44.910 -44.110	-43.310 -42.510 -41.710 -40.910 -40.110	-39.310 -38.510 -37.710 -36.910 -36.110	-35.351 -34.510 -33.710 -32.910 -32.110	-31.310 -30.510 -30.312 -29.710 -28.910 -28.110
GROUND LEVEL	-7.980 -5.480 -3.410 -2.482 -1.460	0.459 2.540 2.550 2.510 2.460	2.490 2.500 2.440 2.420 2.410	2.390 2.380 2.370 2.360 2.340	2.330 2.320 2.370 4.300 4.300	4.300 4.300 4.300 4.300 2.740	2.640 2.610 2.610 2.630 2.470 2.340
HORIZONTAL ALIGNMENT	CS	SC L=124.455 A=370	IP = IP.10 L=282.672 R=1100	CS	SC L=124.455 A=370	SC L=97.345 R=∞	
VERTICAL ALIGNMENT							g=-4.000%
SUPERELEVATION							

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

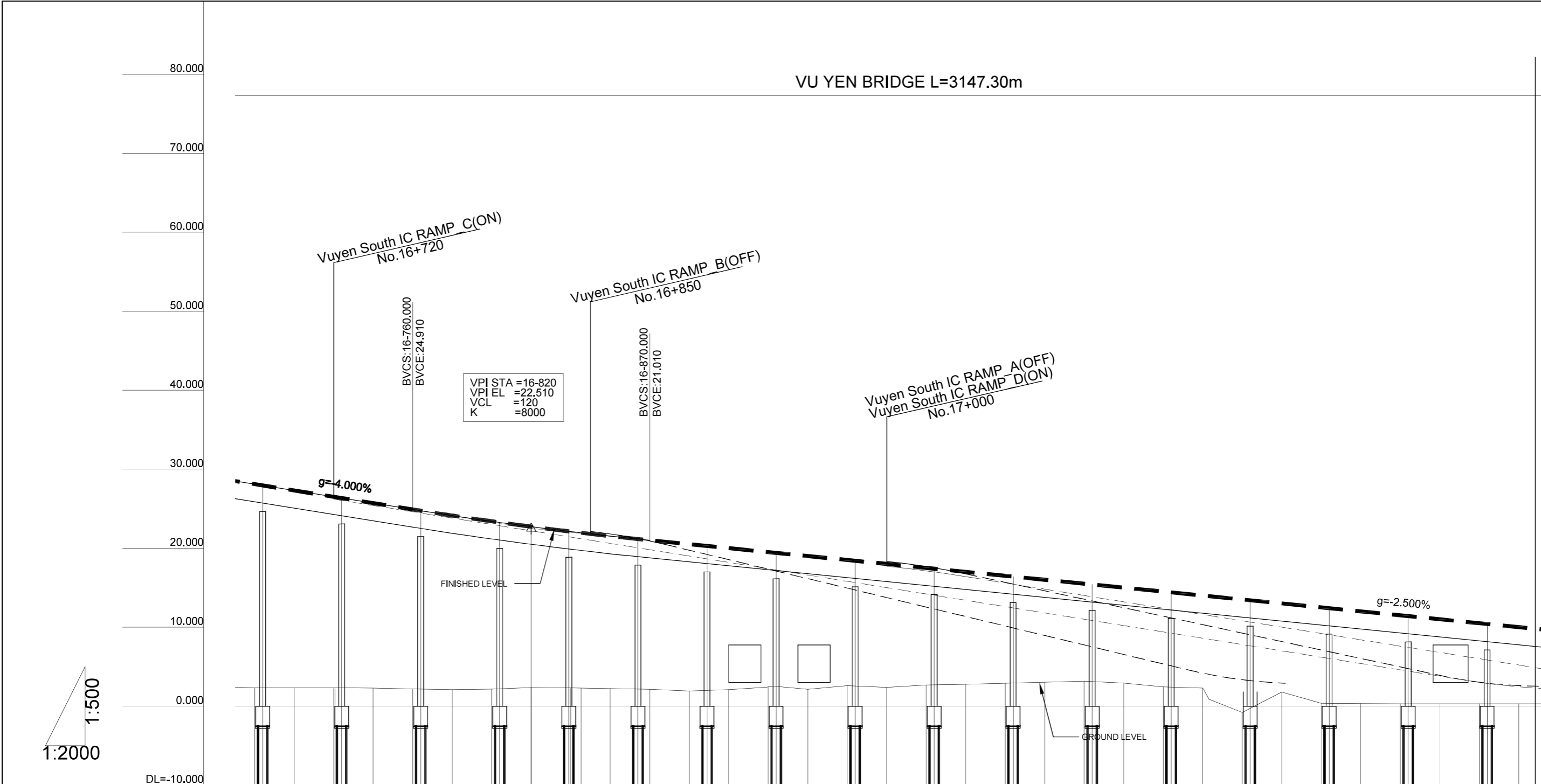


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PROFILE(26)
DRAWING No. RR-RD-0126 SCALE V=1:500 S=1:2000

Rev No.

VU YEN BRIDGE L=3147.30m



CHAINAGE	DL=-10.000	16+700	16+720.783	16+800	16+845.238	16+900	17+000	17+100	17+200	17+300																											
FINISHED LEVEL		-28.110	-27.310	-26.510	-25.710	-24.910	-24.135	-23.410	-22.735	-22.110	-21.965	-21.535	-21.010	-20.510	-20.010	-19.510	-19.010	-18.510	-18.010	-17.510	-17.010	-16.510	-16.010	-15.510	-15.010	-14.510	-14.010	-13.510	-13.010	-12.510	-12.010	-11.510	-11.010	-10.510	-10.010		
GROUND LEVEL		-2.340	-2.330	-2.340	-2.290	-2.190	-2.110	-2.160	-2.370	-2.310	-2.290	-2.240	-2.150	-1.910	-2.100	-2.438	-2.140	-2.590	-2.390	-2.670	-2.790	-2.910	-3.030	-3.160	-2.990	-2.440	-2.290	-0.800	-1.790	-0.370	-0.320	-0.310	-0.310	-0.310	-0.310		
HORIZONTAL ALIGNMENT		$R=\infty$ 97.345															$A=370$ $L=124.455$										$R=1100$ $L=635.762$										
VERTICAL ALIGNMENT		CS															SC										$g=-2.500\%$										
SUPERELEVATION																																					

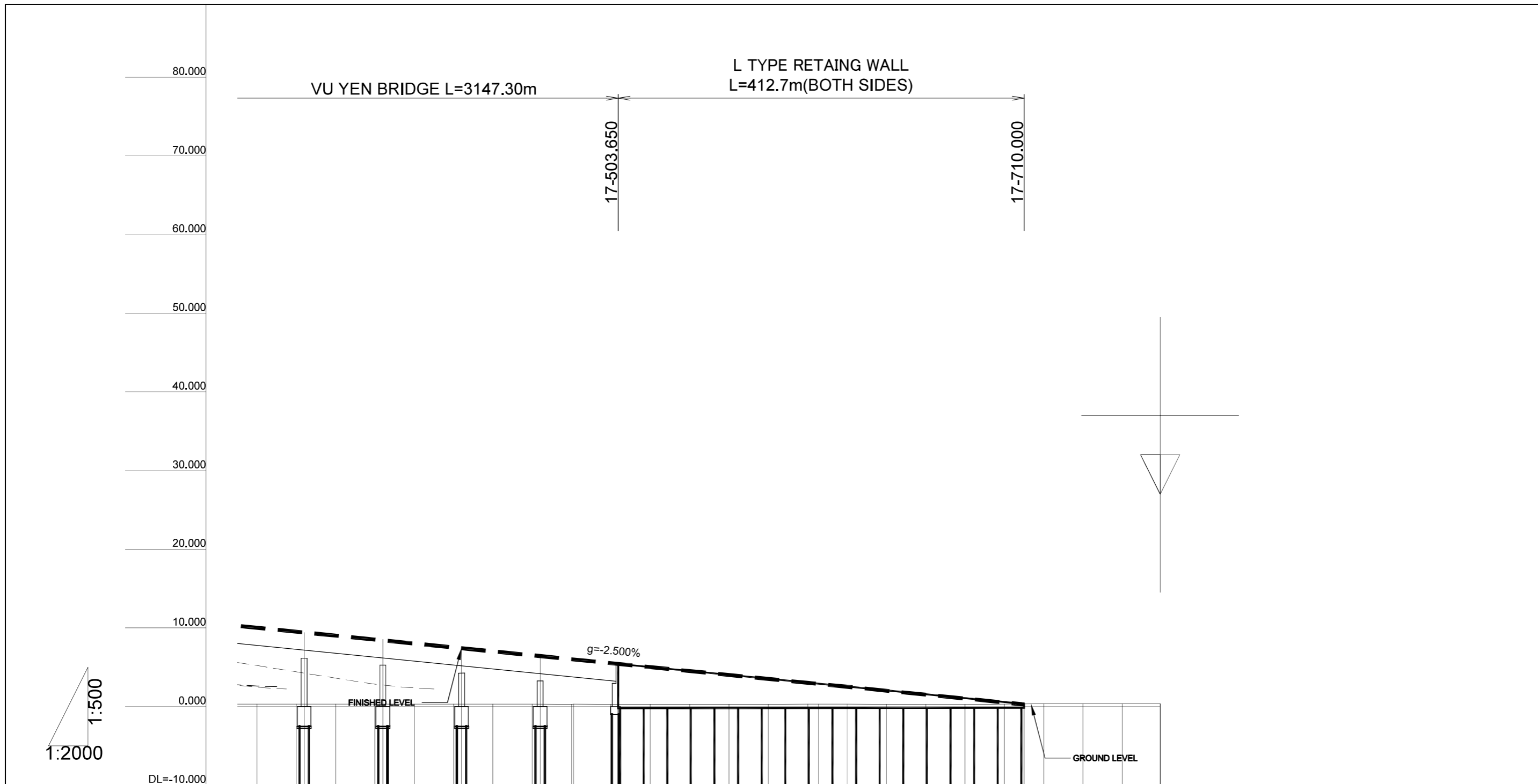
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT




JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD PROFILE(27)
 DRAWING No. RR-RD-0127 SCALE V=1:500 S=1:2000

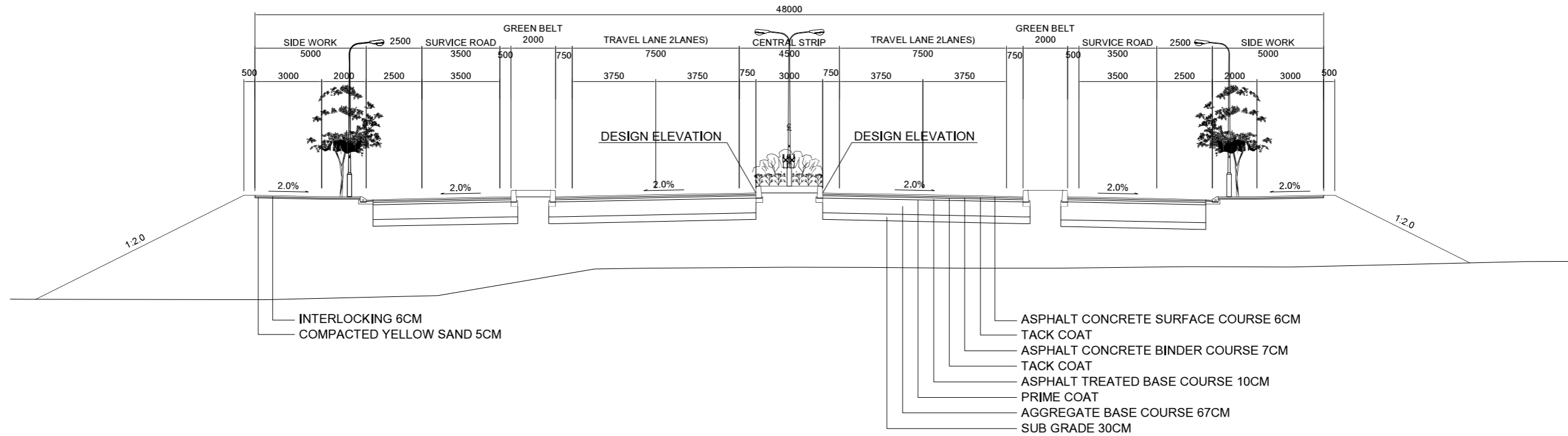
Rev No.



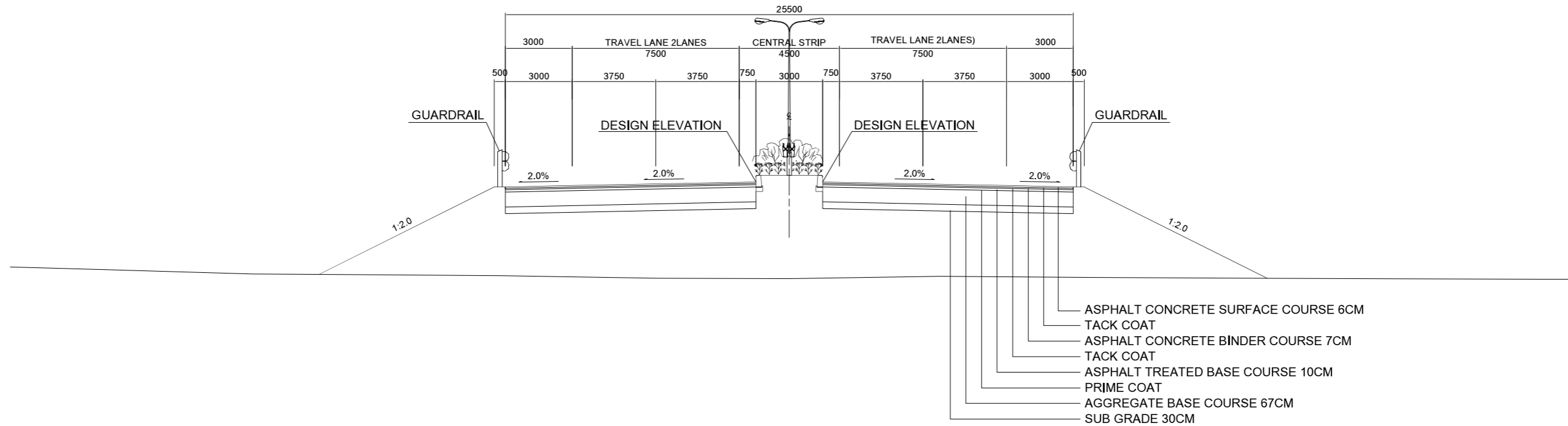
CHAINAGE	DL=-10.000	17+400	17+481.000	17+500	17+600	17+605.454	17+700	17+710	+779.199																		
FINISHED LEVEL	-10.010	9.510	9.010	8.510	8.010	7.510	7.010	6.510	6.010	5.510	5.010	4.510	4.010	3.510	3.010	2.874	2.510	2.010	1.510	1.010	0.510	0.280	0.010	-0.480	-0.980	-1.470	
GROUND LEVEL	-0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.280	0.280	0.280	0.290	0.290	0.290	0.300	0.300	0.310	0.290	0.270	0.270	0.310	0.330	0.350	0.360	0.350	0.360
HORIZONTAL ALIGNMENT																											
VERTICAL ALIGNMENT																											
SUPERELEVATION																											

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD PROFILE(28)				Rev No.
			DRAWING No.	RR-RD-0128	SCALE	V=1:500 S=1:2000	

TYPICAL CROSS SECTION-1
RING ROAD No.3 URBAN AREA-ACCESS CONTROL SECTION



RING ROAD No.3 NON URBAN AREA-NON ACCESS CONTROL SECTION



PROJECT: PREPARATORY SURVEY
 ON
 HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

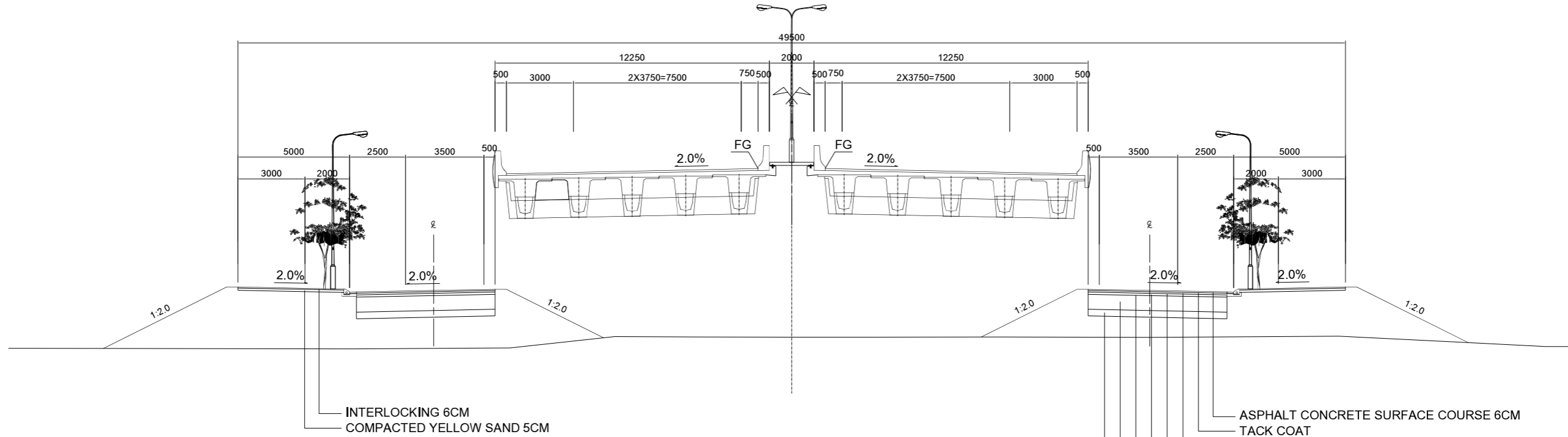


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF
 CHODAI CO.,LTD.
 ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
 ALMEC VPI CO.,LTD.

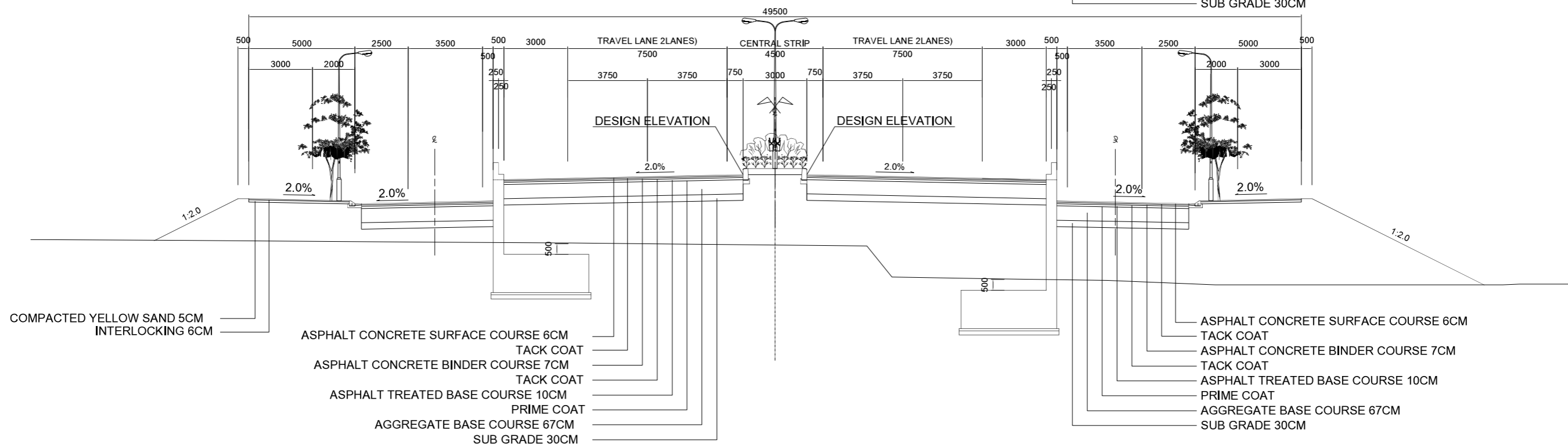
DRAWING TITLE: RING ROAD 3RD TYPICAL CROSS SECTION (1)				Rev No.
DRAWING No.	RR-RD-0201	SCALE	S=1:200	

TYPICAL CROSS SECTION-2

No.1 IC
SECTION AT PIER



SECTION AT RETAINING WALL



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

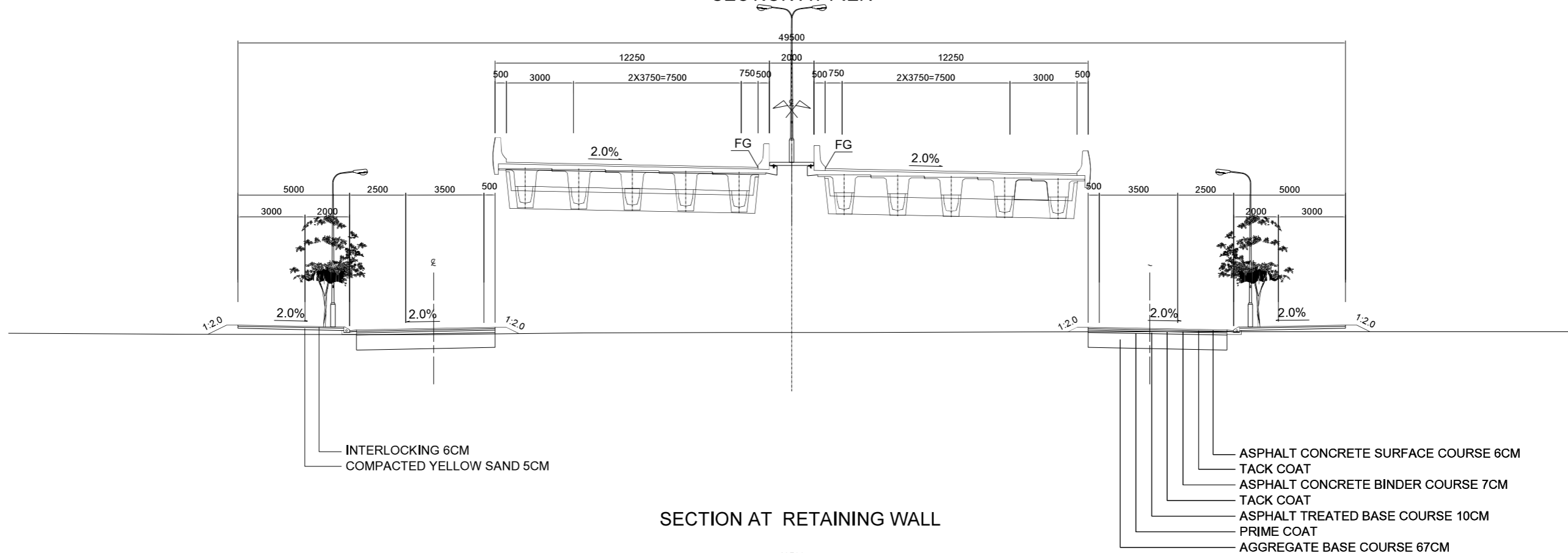
DRAWING TITLE: RING ROAD 3RD
TYPICAL CROSS SECTION (2)

Rev No.

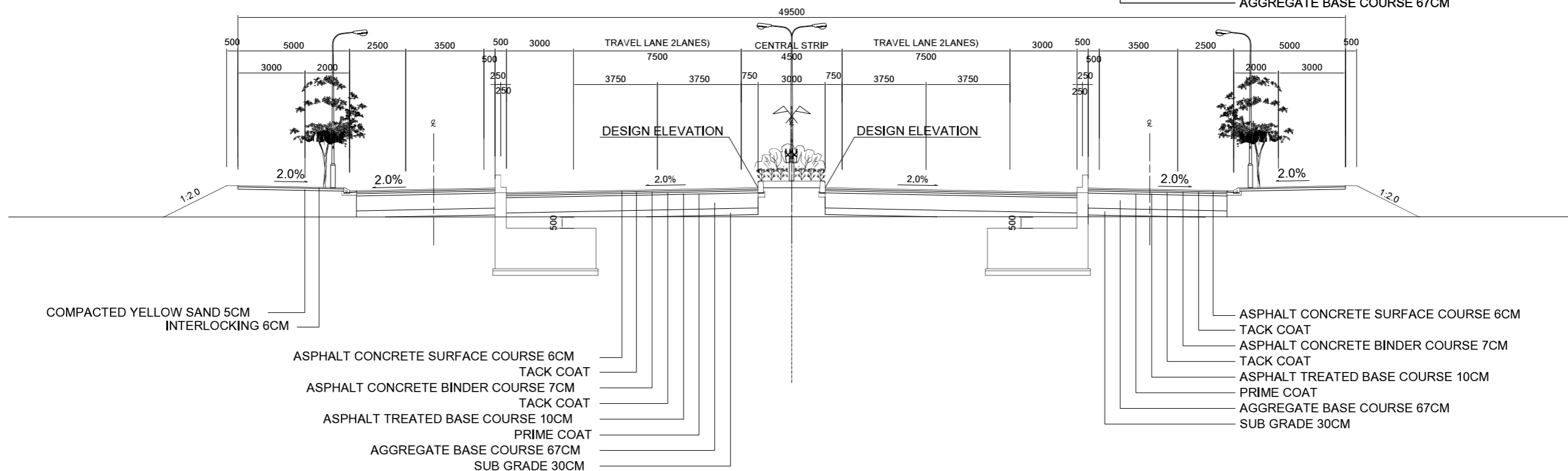
DRAWING No.	RR-RD-0202	SCALE	S=1:200
-------------	------------	-------	---------


TYPICAL CROSS SECTION-3

No.2 IC
SECTION AT PIER



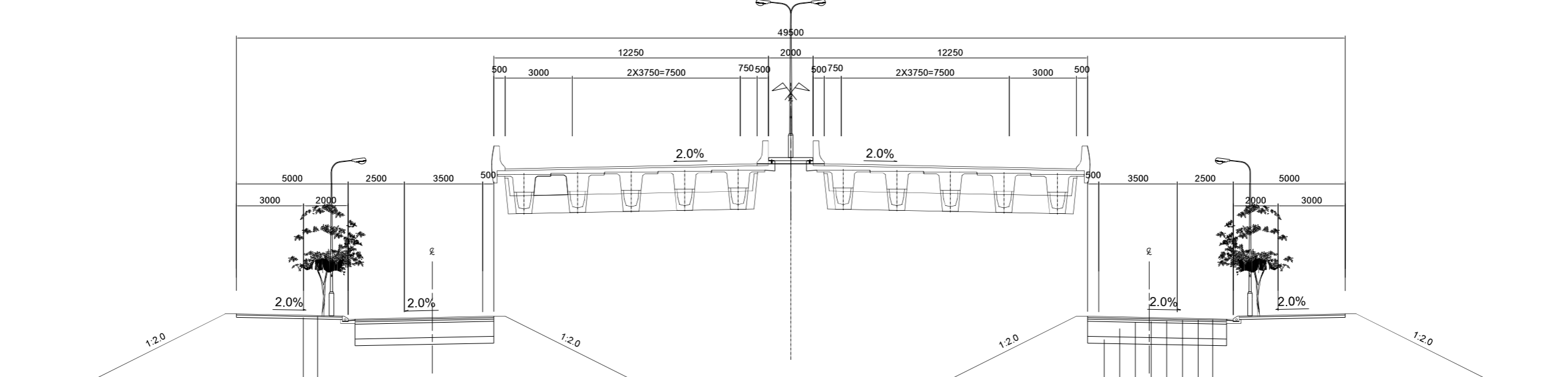
SECTION AT RETAINING WALL



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD TYPICAL CROSS SECTION (3)			Rev No.
			DRAWING No.	RR-RD-0203	SCALE	S=1:200

TYPICAL CROSS SECTION-4

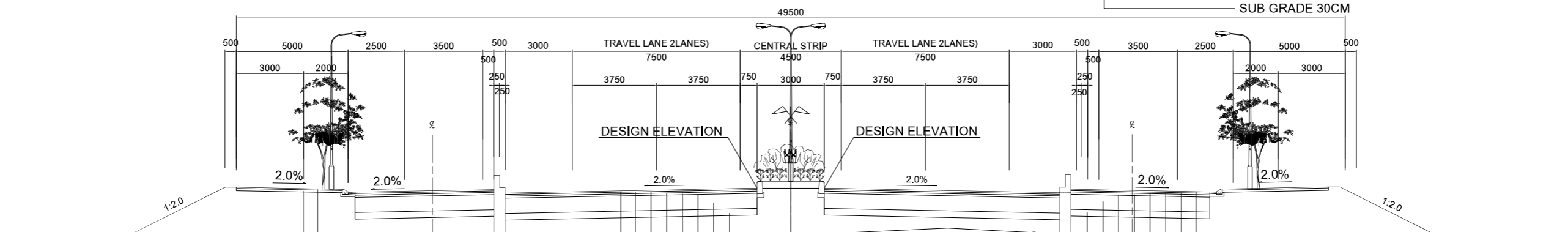
No.3 IC
SECTION AT PIER



INTERLOCKING 6CM
COMPACTED YELLOW SAND 5CM

ASPHALT CONCRETE SURFACE COURSE 6CM
TACK COAT
ASPHALT CONCRETE BINDER COURSE 7CM
TACK COAT
ASPHALT TREATED BASE COURSE 10CM
PRIME COAT
AGGREGATE BASE COURSE 67CM
SUB GRADE 30CM

SECTION AT RETAINING WALL



COMPACTED YELLOW SAND 5CM
INTERLOCKING 6CM

ASPHALT CONCRETE SURFACE COURSE 6CM
TACK COAT
ASPHALT CONCRETE BINDER COURSE 7CM
TACK COAT
ASPHALT TREATED BASE COURSE 10CM
PRIME COAT
AGGREGATE BASE COURSE 67CM
SUB GRADE 30CM

ASPHALT CONCRETE SURFACE COURSE 6CM
TACK COAT
ASPHALT CONCRETE BINDER COURSE 7CM
TACK COAT
ASPHALT TREATED BASE COURSE 10CM
PRIME COAT
AGGREGATE BASE COURSE 67CM
SUB GRADE 30CM

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



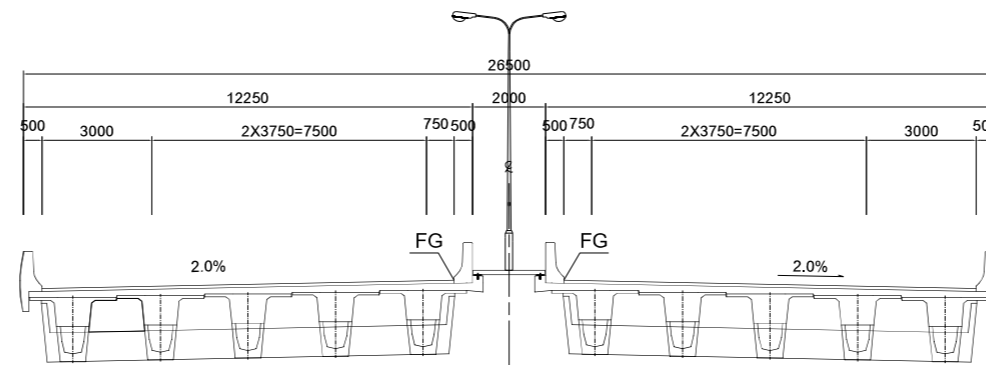
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
TYPICAL CROSS SECTION (4)

Rev No.

DRAWING No.	RR-RD-0204	SCALE	S=1:200
-------------	------------	-------	---------

TYPICAL CROSS SECTION-5
 RUOT LON BRIDGE
 SECTION OF APPROACH BRIDGE



DL=-1.0

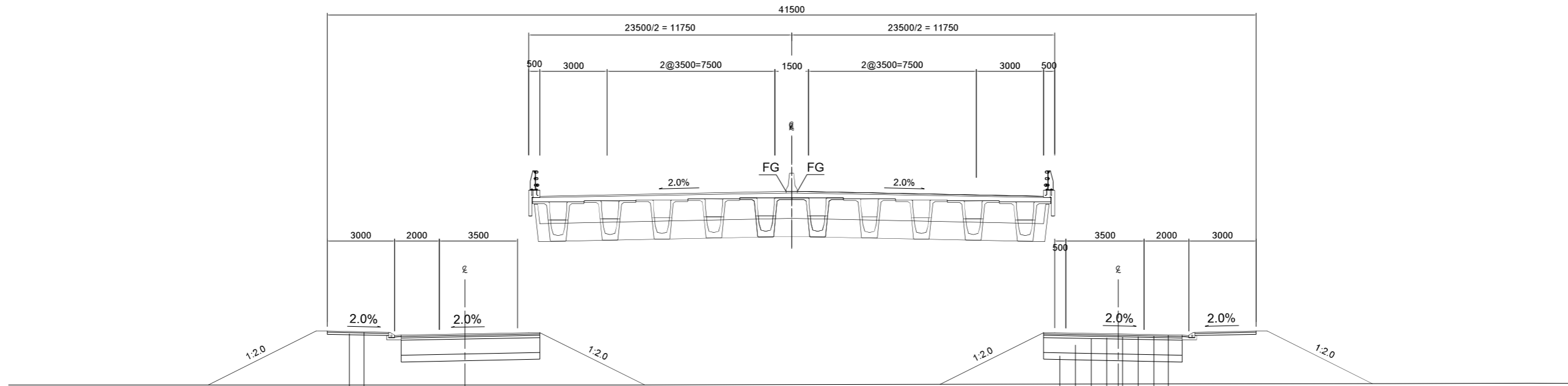
PROJECT: PREPARATORY SURVEY
 ON
 HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF
 CHODAI CO.,LTD.
 ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
 ALMEC VPI CO.,LTD.

DRAWING TITLE:				Rev No.
RING ROAD 3RD TYPICAL CROSS SECTION (5)				
DRAWING No.	RR-RD-0205	SCALE	S=1:200	

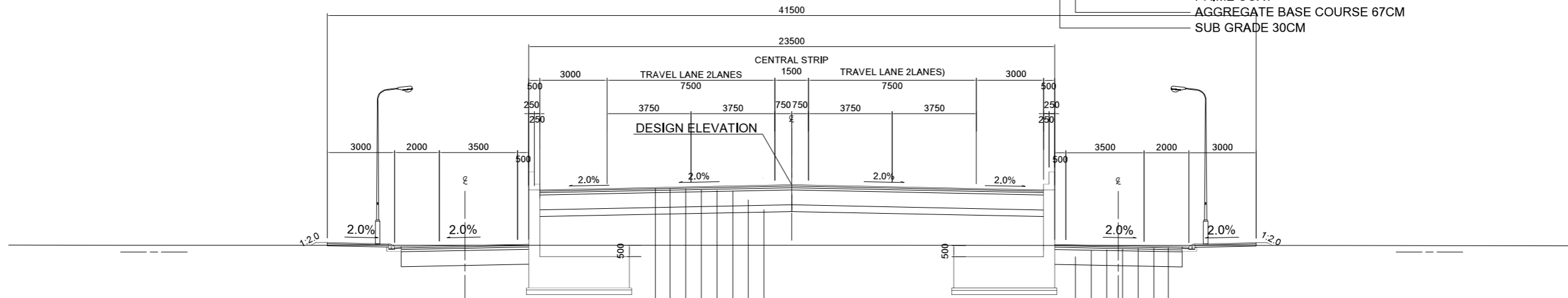
TYPICAL CROSS SECTION-6
VUYEN BRIDGE
CROSS SECTION VIADUCT



INTERLOCKING 6CM
COMPACTED YELLOW SAND 5CM

SECTION AT RETAINING WALL

ASPHALT CONCRETE SURFACE COURSE 6CM
TACK COAT
ASPHALT CONCRETE BINDER COURSE 7CM
TACK COAT
ASPHALT TREATED BASE COURSE 10CM
PRIME COAT
AGGREGATE BASE COURSE 67CM
SUB GRADE 30CM



ASPHALT CONCRETE SURFACE COURSE 6CM
TACK COAT
ASPHALT CONCRETE BINDER COURSE 7CM
TACK COAT
ASPHALT TREATED BASE COURSE 10CM
PRIME COAT
AGGREGATE BASE COURSE 67CM
SUB GRADE 30CM

ASPHALT CONCRETE SURFACE COURSE 6CM
TACK COAT
ASPHALT CONCRETE BINDER COURSE 7CM
TACK COAT
ASPHALT TREATED BASE COURSE 10CM
PRIME COAT
AGGREGATE BASE COURSE 67CM

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

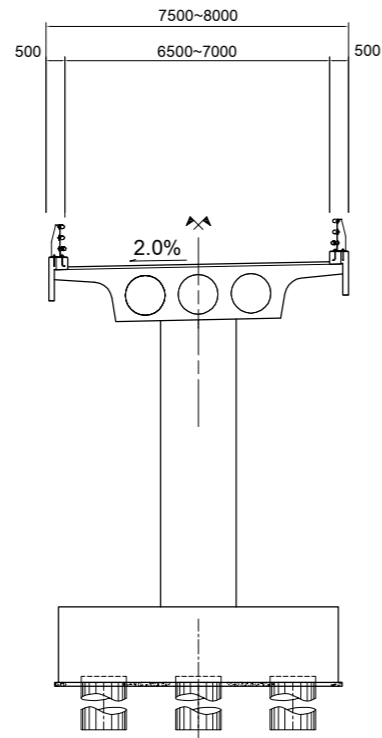


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

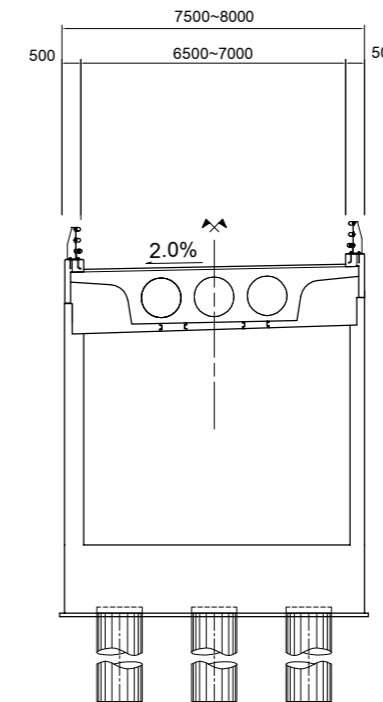
DRAWING TITLE: RING ROAD 3RD TYPICAL CROSS SECTION (6)				Rev No.
DRAWING No.	RR-RD-0206	SCALE	S=1:200	

TYPICAL CROSS SECTION-7
VUYEN SOUTH IC RAMP

TYPICAL CROSS SECTION AT PIERS



CROSS SECTION AT ABUTMENT



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

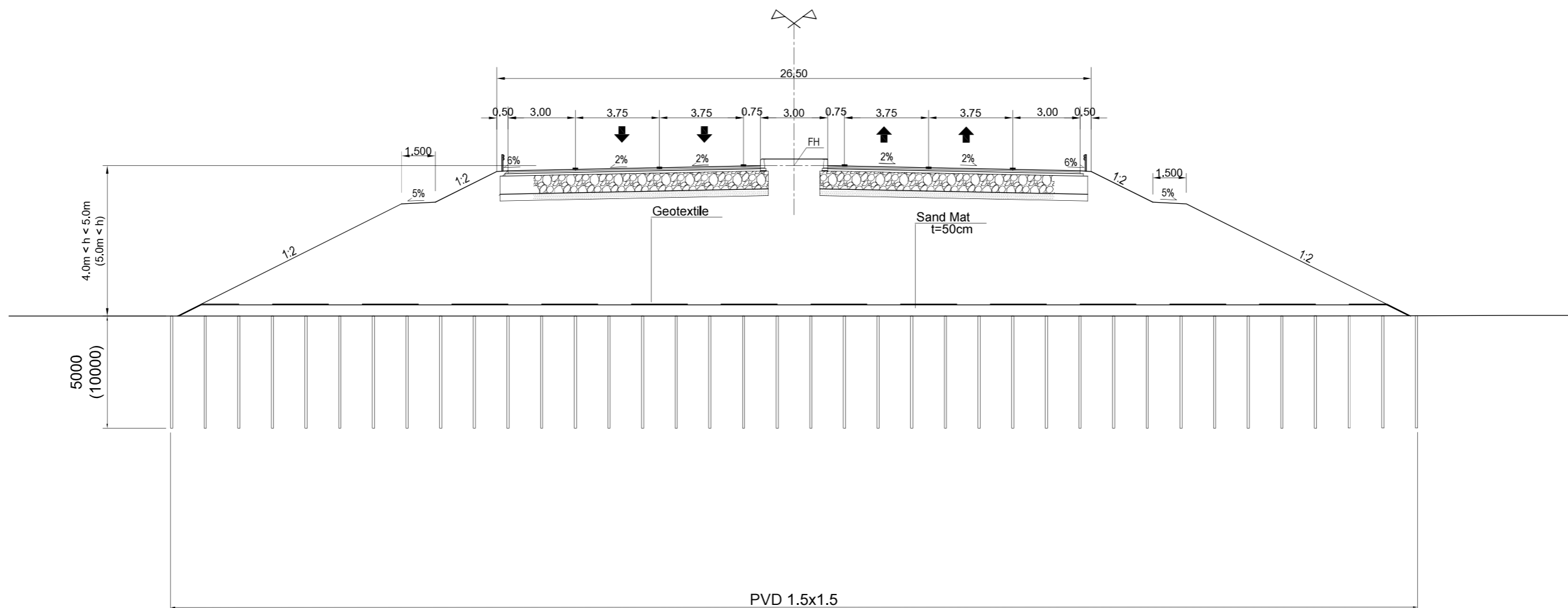


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD TYPICAL CROSS SECTION (7)				Rev No.
DRAWING No.	RR-RD-0207	SCALE	S=1:200	

Location of PVD

	Main Location	Area	Length	Pitch PVD	Depth Height	
1	Box1	No 80+17.000	No 81+50.000	133.000 m	1.5m x 1.5m 5m	4m<h<5m
2	Box2	No 111+34.000	No 114+00.000	266.000 m	1.5m x 1.5m 5m	4m<h<5m
3	Ruot Lon Br	No 124+75.000	No 125+15.000	40.000 m	1.5m x 1.5m 5m	4m<h<5m
		No 125+15.000	No 125+80.350	65.350 m	1.5m x 1.5m 10m	5m<h
		No 131+59.650	No 132+06.660	47.010 m	1.5m x 1.5m 10m	5m<h
		No 132+06.660	No 132+55.000	48.340 m	1.5m x 1.5m 5m	4m<h<5m
4	Vu Yen Island	No 132+55.000	No 143+56.500	1,101.500 m	1.5m x 1.5m 5m	4m<h<5m



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
TYPICAL CROSS SECTION(8)
FOR SOFT GROUND TREATMENT

Rev No.

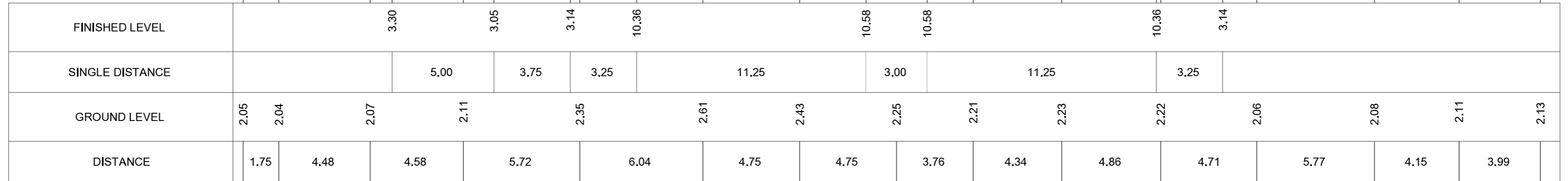
DRAWING No. RR-RD-0208 SCALE 1/200 ; 1/200

KM:0+500.00

C	M3/M	0.0
B1	M3/M	65.9
B2	M3/M	4.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	11.1
B RL	M2/M	10.4

KM:0+500.00
GH=2.25
FH=10.583

DL=0.0

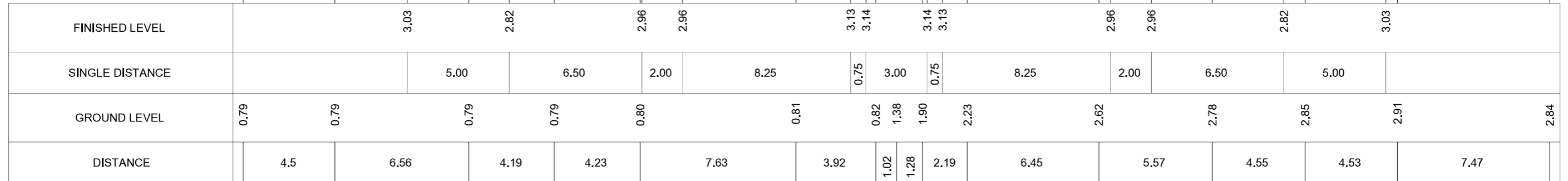


KM:00+0.00

C	M3/M	8.3
B1	M3/M	39.9
B2	M3/M	5.5
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	5.0
B RL	M2/M	0.3

KM:00+0.00
GH=1.38
FH=3.140

DL=-1.0



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



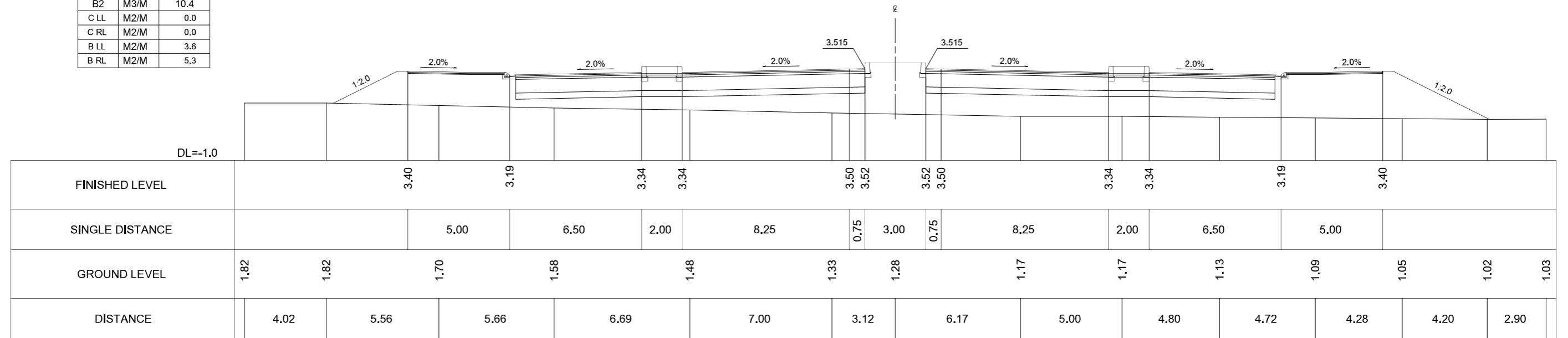
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(1)
DRAWING No. RR-RD-0301 SCALE S=1:200 Rev No.

KM:1+500.00

C	M3/M	0.0
B1	M3/M	65.9
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	3.6
B RL	M2/M	5.3

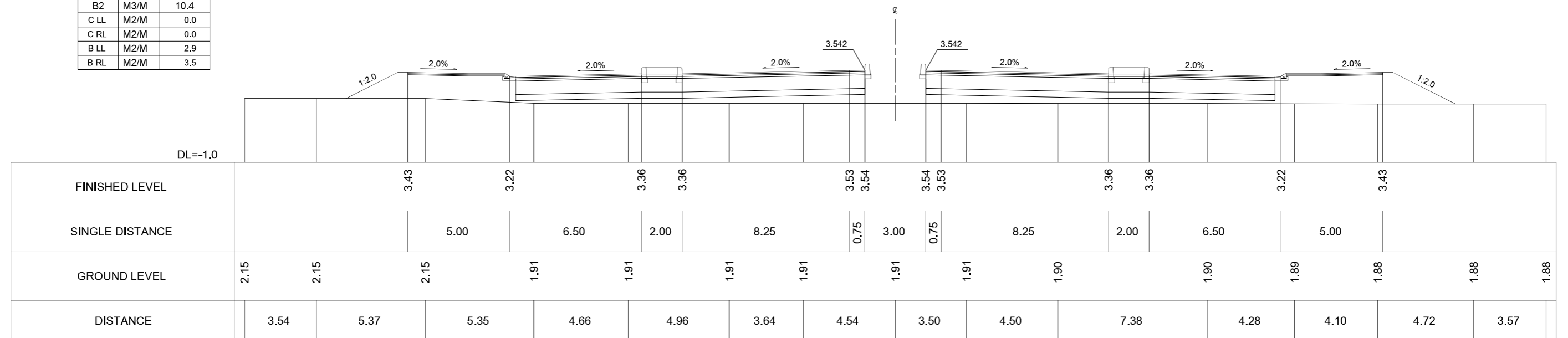
KM:1+500.00
GH=1.28
FH=3.515



KM:1+0.00

C	M3/M	0.0
B1	M3/M	34.0
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	2.9
B RL	M2/M	3.5

KM:1+0.00
GH=1.91
FH=3.542



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



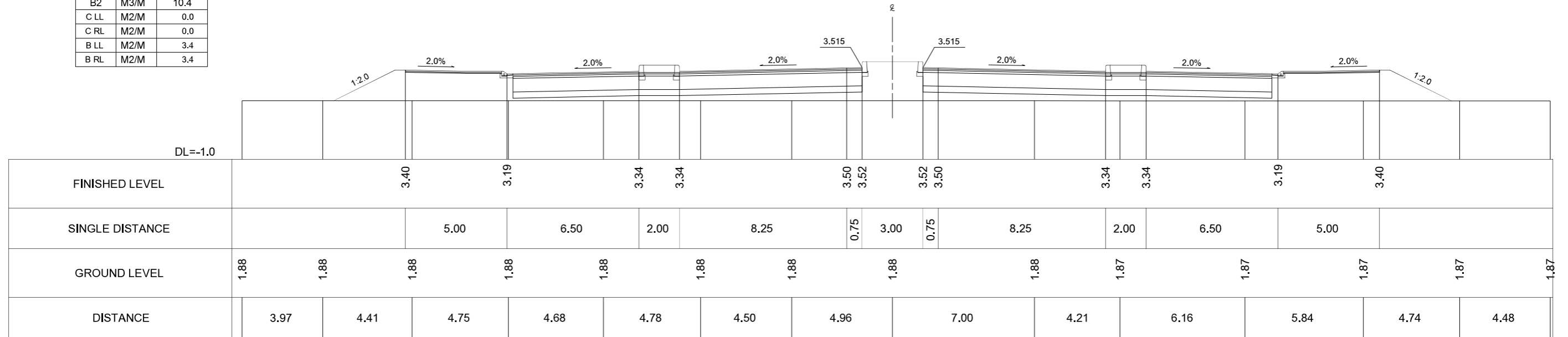
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(2)
DRAWING No. RR-RD-0302 SCALE S=1:200 Rev No.

KM:2+500.00

C	M3/M	0.0
B1	M3/M	35.6
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	3.4
B RL	M2/M	3.4

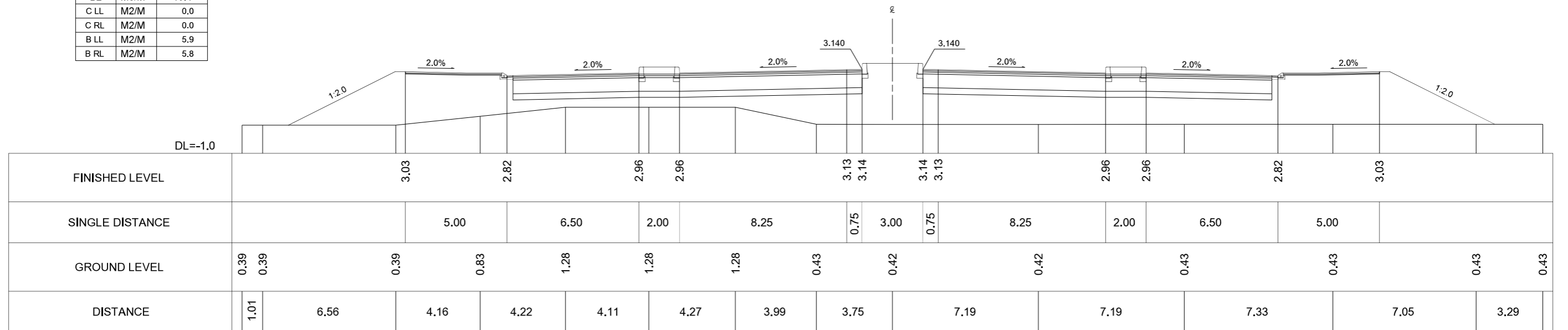
KM:2+500.00
GH=1.88
FH=3.515



KM:2+0.00

C	M3/M	0.0
B1	M3/M	85.1
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	5.9
B RL	M2/M	5.8

KM:2+0.00
GH=0.42
FH=3.140



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



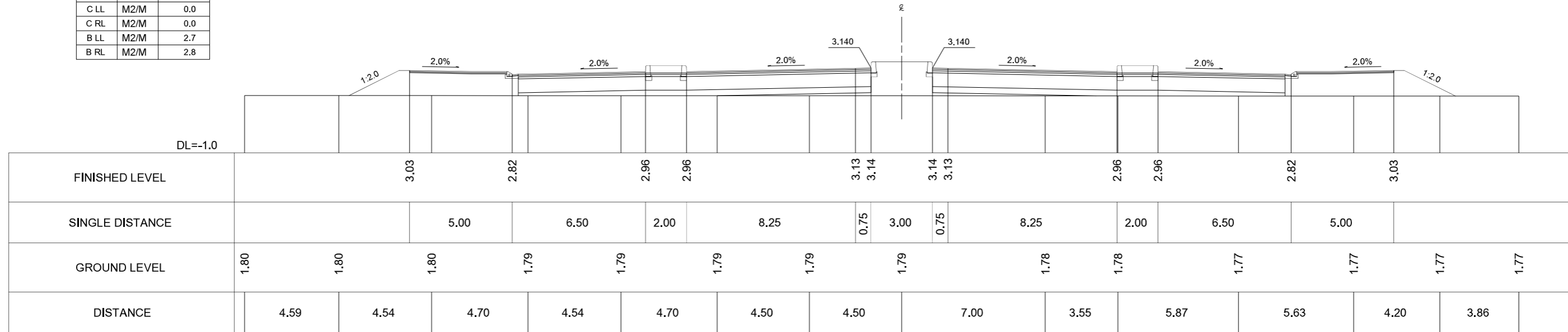
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD CROSS SECTION(3)
DRAWING No. RR-RD-0303 SCALE S=1:200 Rev No.

KM:3+500.00

C	M3/M	0.0
B1	M3/M	21.4
B2	M3/M	9.1
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	2.7
B RL	M2/M	2.8

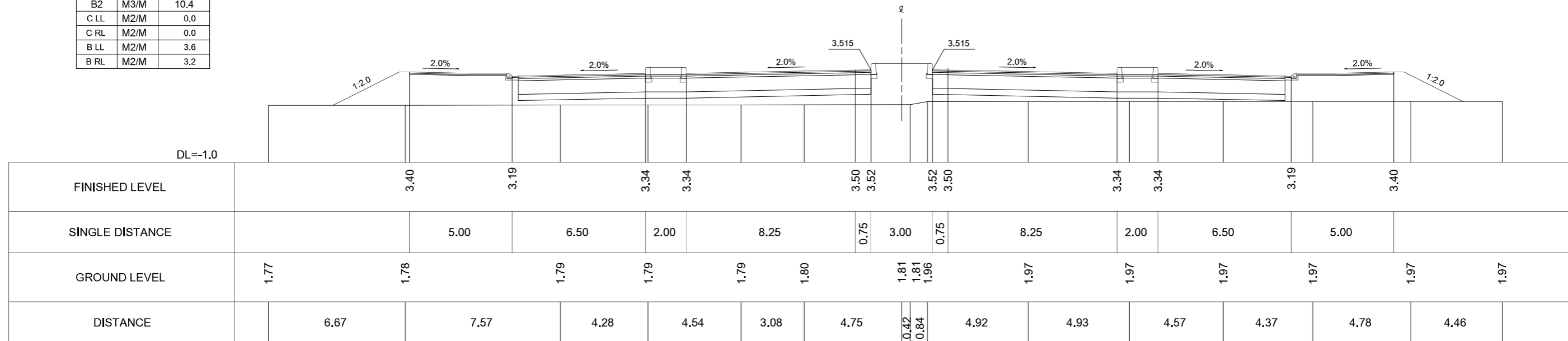
KM:3+500.00
GH=1.79
FH=3.140



KM:3+0.00

C	M3/M	0.0
B1	M3/M	35.6
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	3.6
B RL	M2/M	3.2

KM:3+0.00
GH=1.81
FH=3.515



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE:
RING ROAD 3RD
CROSS SECTION(4)

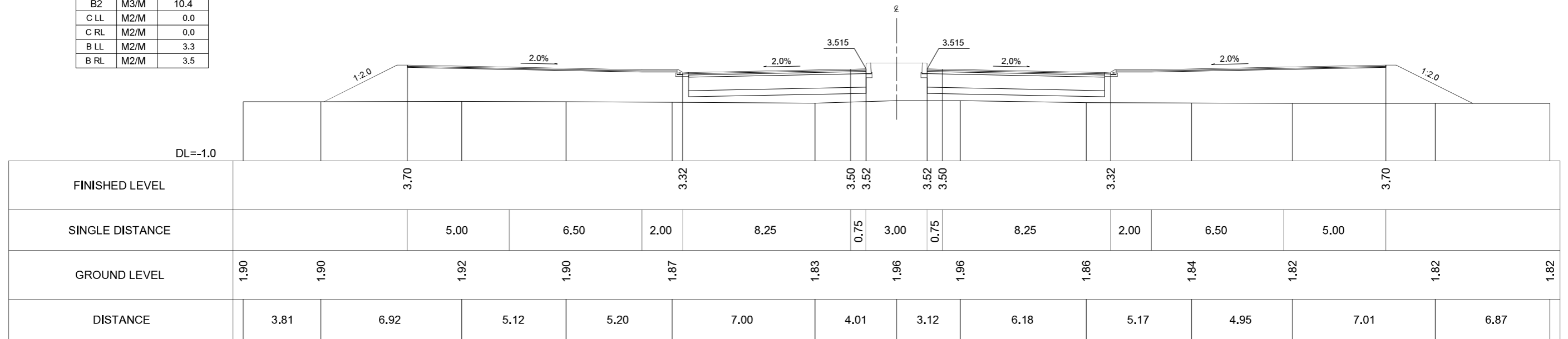
DRAWING No. RR-RD-0304 SCALE S=1:200

Rev No.

KM:4+500.00

C	M3/M	0.0
B1	M3/M	35.7
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	3.3
B RL	M2/M	3.5

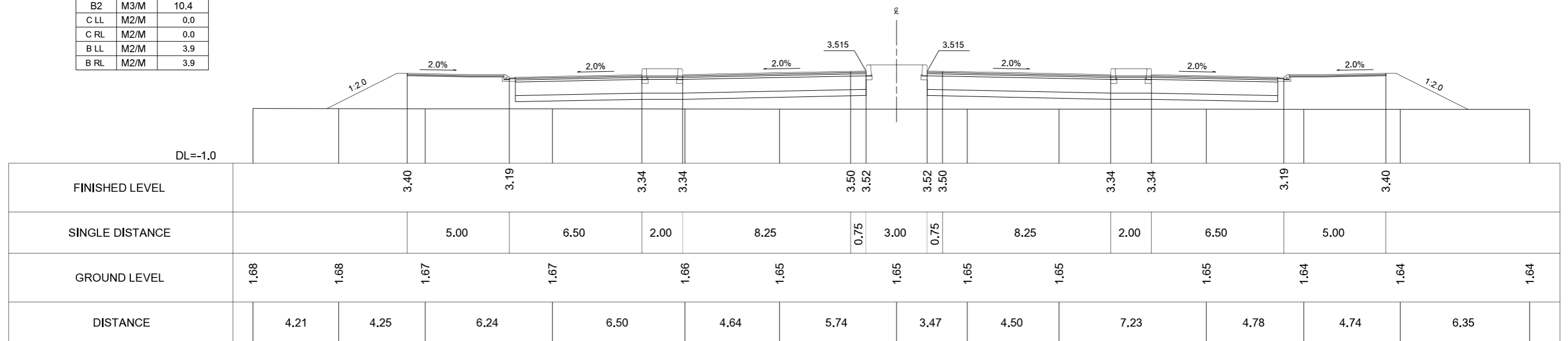
KM:4+500.00
GH=1.96
FH=3.515



KM:4+0.00

C	M3/M	0.0
B1	M3/M	47.9
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	3.9
B RL	M2/M	3.9

KM:4+0.00
GH=1.65
FH=3.515



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



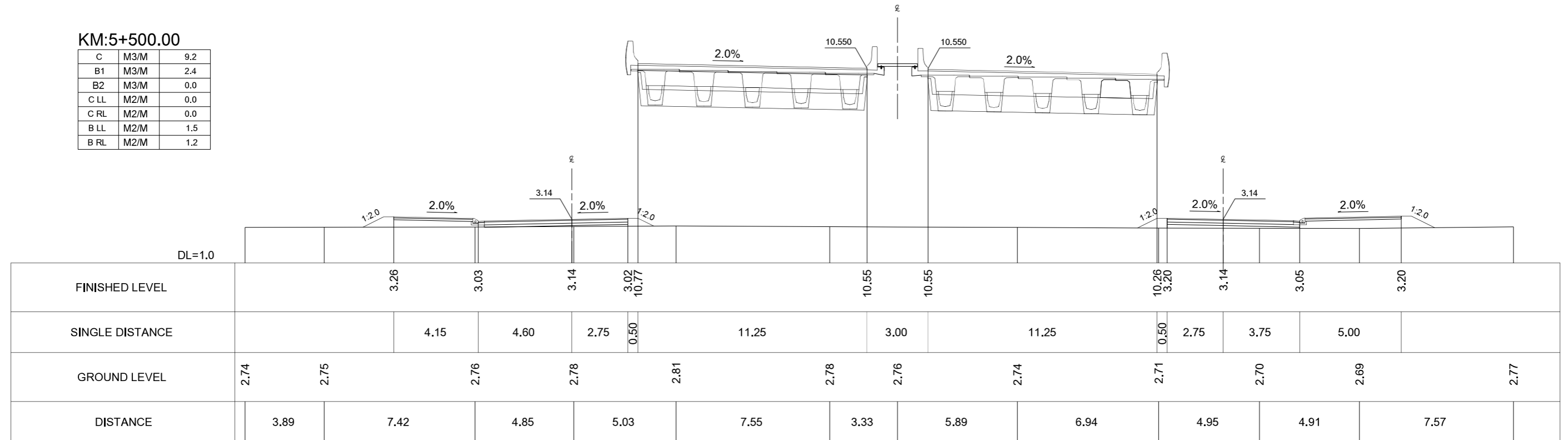
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD CROSS SECTION(5)
DRAWING No. RR-RD-0305 SCALE S=1:200 Rev No.

KM:5+500.00

C	M3/M	9.2
B1	M3/M	2.4
B2	M3/M	0.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	1.5
B RL	M2/M	1.2

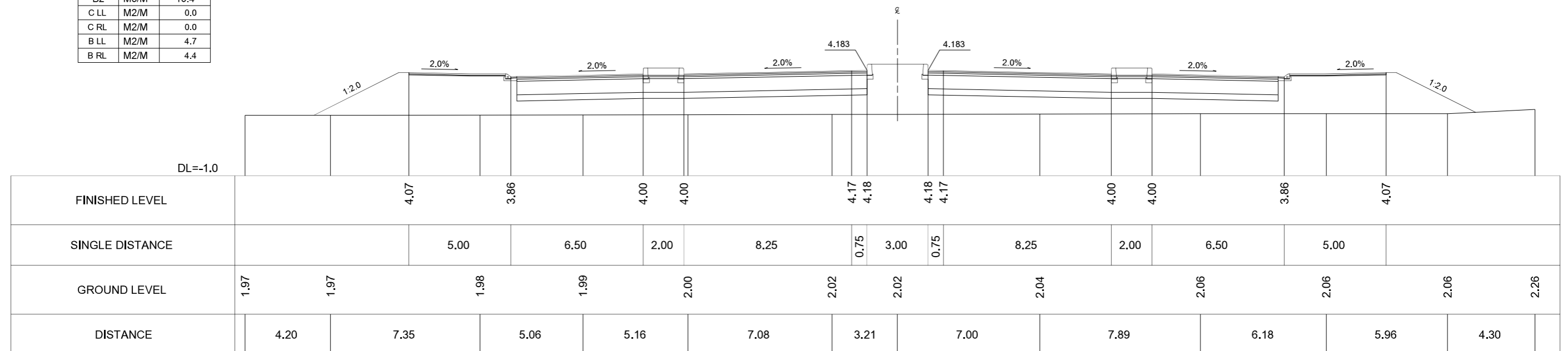
KM:5+500.00
GH=2.76
FH=10.550



KM:5+0.00

C	M3/M	0.0
B1	M3/M	64.9
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	4.7
B RL	M2/M	4.4

KM:5+0.00
GH=2.02
FH=4.183



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



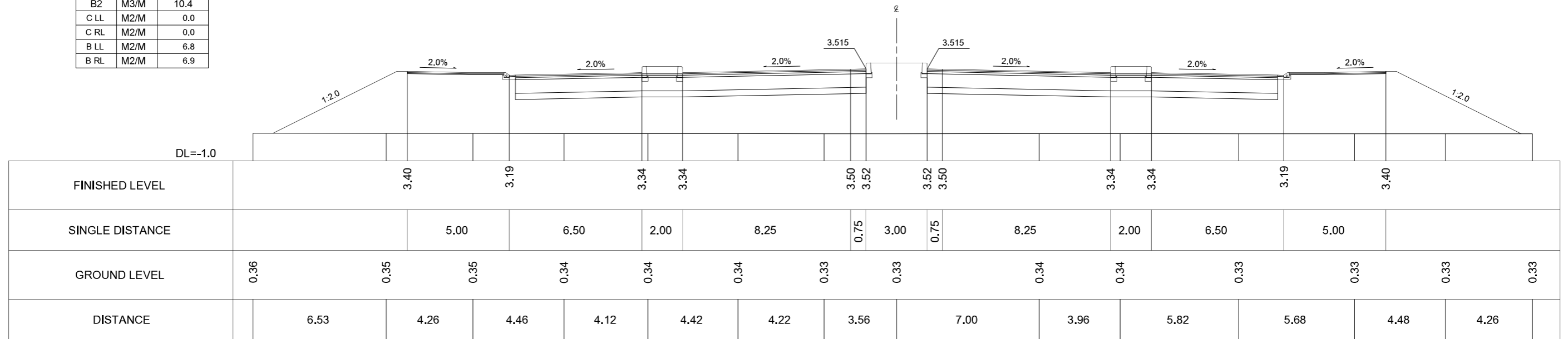
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD CROSS SECTION(6)
DRAWING No. RR-RD-0306 SCALE S=1:200 Rev No.

KM:6+500.00

C	M3/M	0.0
B1	M3/M	125.1
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	6.8
B RL	M2/M	6.9

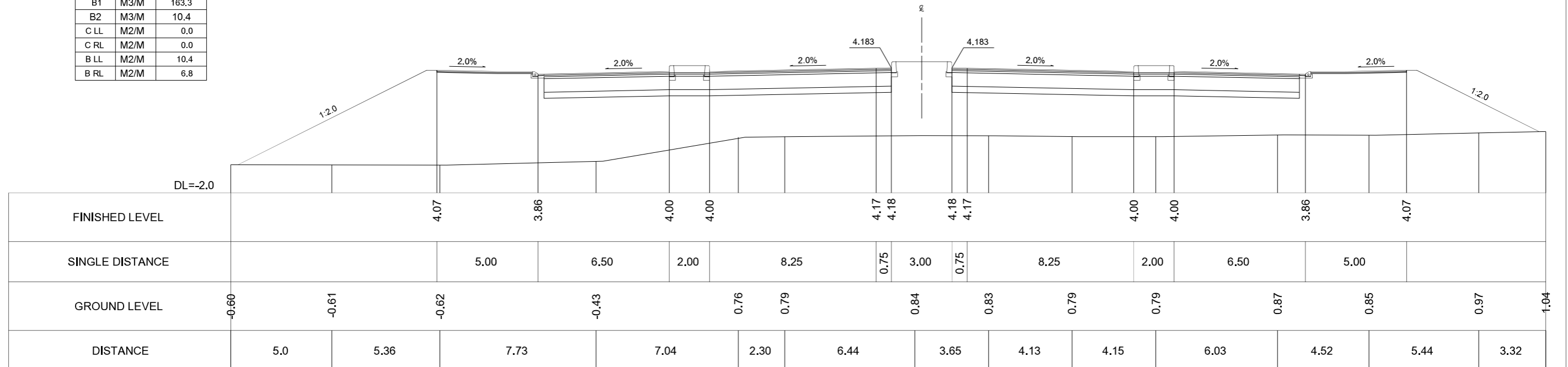
KM:6+500.00
GH=0.33
FH=3.515



KM:6+0.00

C	M3/M	0.0
B1	M3/M	163.3
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	10.4
B RL	M2/M	6.8

KM:6+0.00
GH=0.84
FH=4.183



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



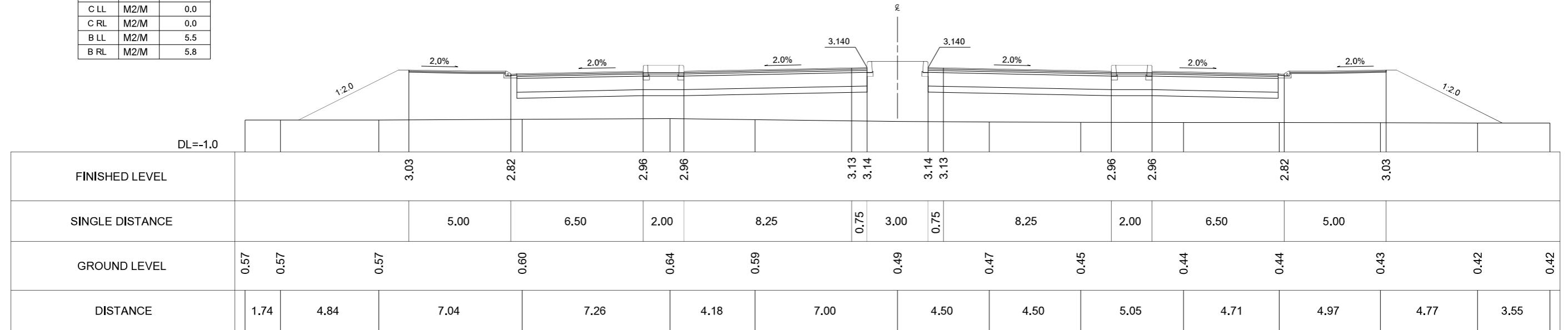
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(7)
DRAWING No. RR-RD-0307 SCALE S=1:200
Rev No.

KM:7+500.00

C	M3/M	0.0
B1	M3/M	91.8
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	5.5
B RL	M2/M	5.8

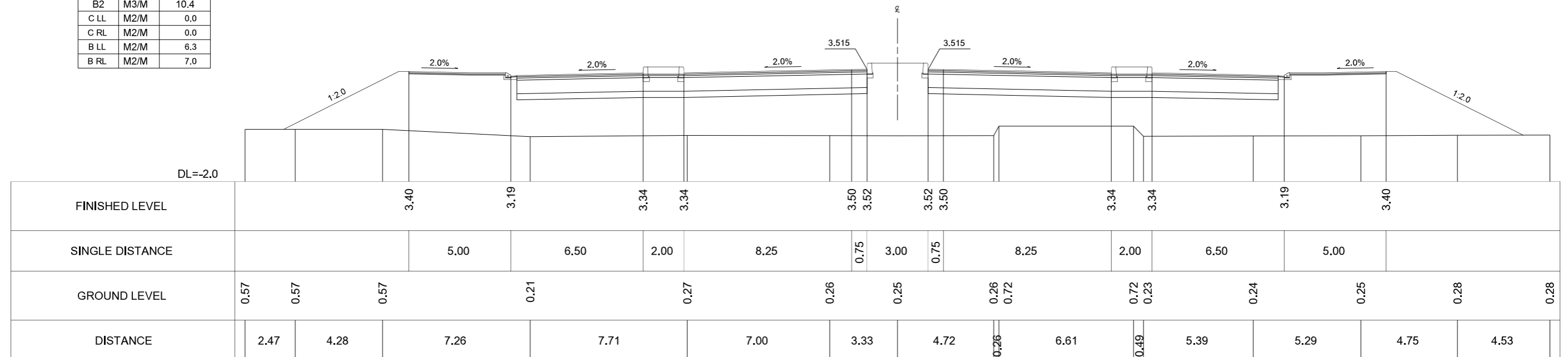
KM:7+500.00
GH=0.49
FH=3.140



KM:7+0.00

C	M3/M	0.0
B1	M3/M	124.4
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	6.3
B RL	M2/M	7.0

KM:7+0.00
GH=0.25
FH=3.515



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



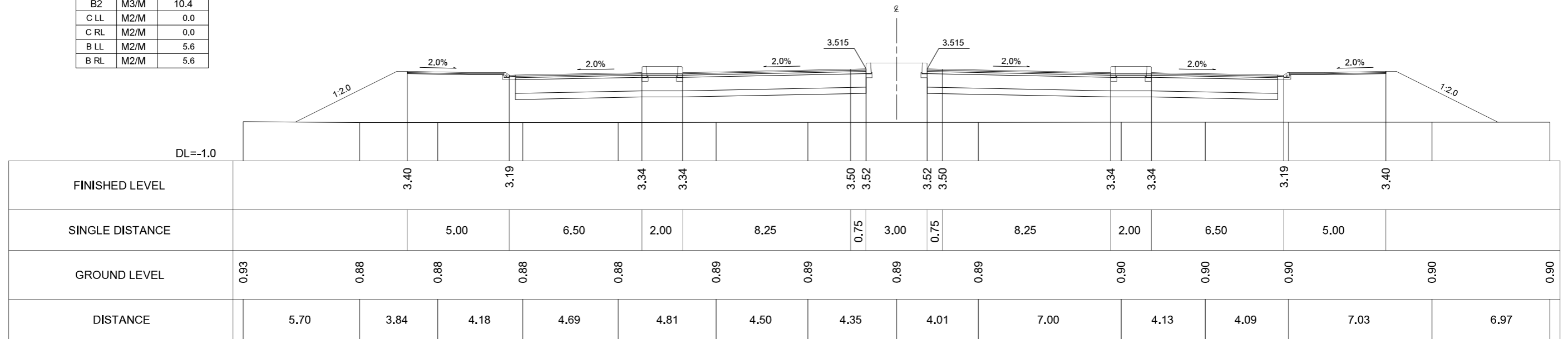
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(8)
DRAWING No. RR-RD-0308 SCALE S=1:200
Rev No.

KM:8+500.00

C	M3/M	0.0
B1	M3/M	91.8
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	5.6
B RL	M2/M	5.6

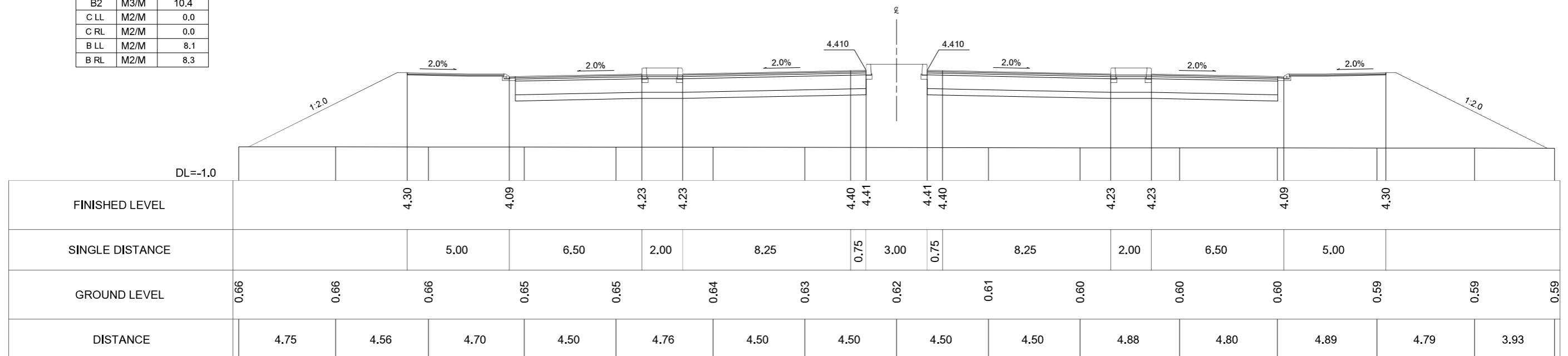
KM:8+500.00
GH=0.89
FH=3.515



KM:8+0.00

C	M3/M	0.0
B1	M3/M	163.2
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	8.1
B RL	M2/M	8.3

KM:8+0.00
GH=0.62
FH=4.410



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



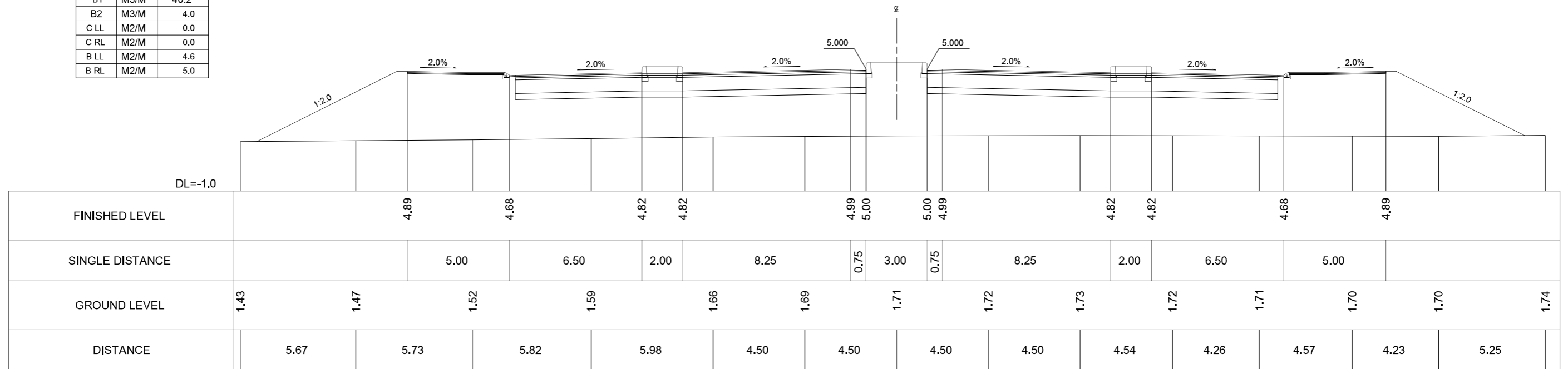
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(9)
DRAWING No. RR-RD-0309 SCALE S=1:200
Rev No.

KM:9+500.00

C	M3/M	0.0
B1	M3/M	40.2
B2	M3/M	4.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	4.6
B RL	M2/M	5.0

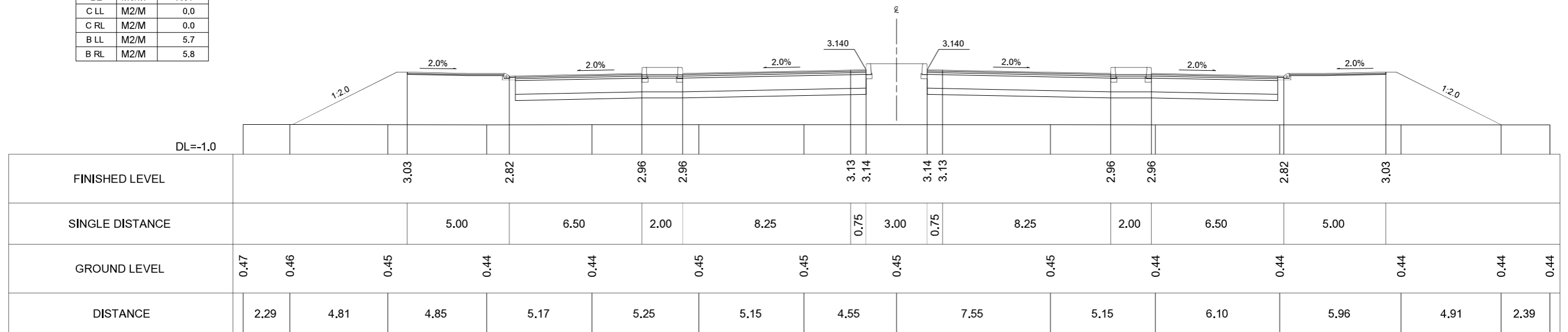
KM:9+500.00
GH=1.71
FH=5.000



KM:9+0.00

C	M3/M	0.0
B1	M3/M	96.0
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	5.7
B RL	M2/M	5.8

KM:9+0.00
GH=0.45
FH=3.140



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



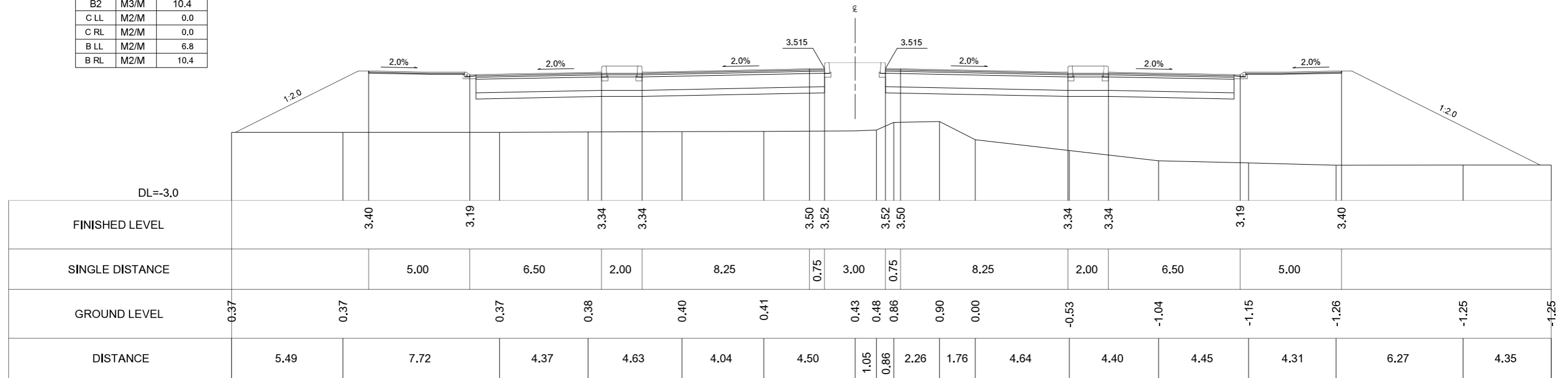
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(10)
DRAWING No. RR-RD-0310 SCALE S=1:200
Rev No.

KM:10+500.00

C	M3/M	0.0
B1	M3/M	156.1
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	6.8
B RL	M2/M	10.4

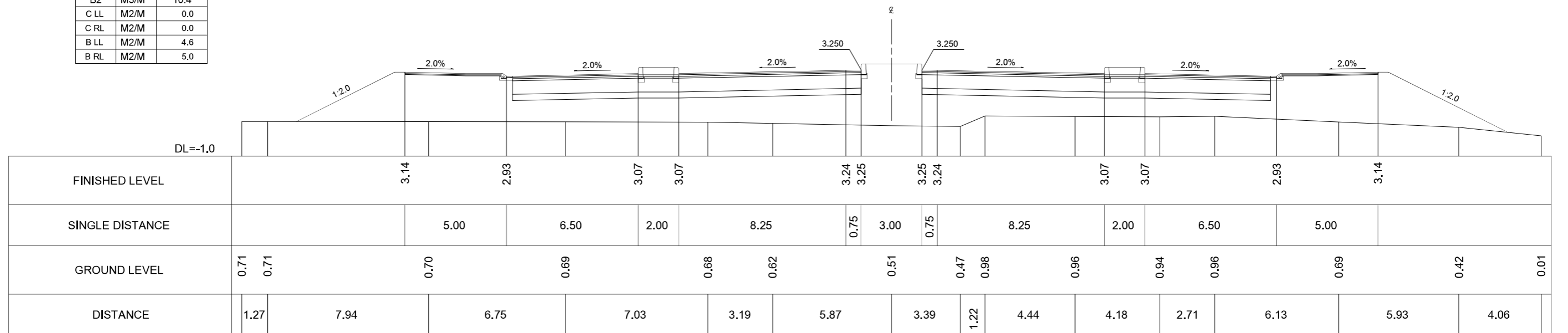
KM:10+500.00
GH=0.43
FH=3.515



KM:10+0.00

C	M3/M	0.0
B1	M3/M	40.2
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	4.6
B RL	M2/M	5.0

KM:10+0.00
GH=0.51
FH=3.250



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



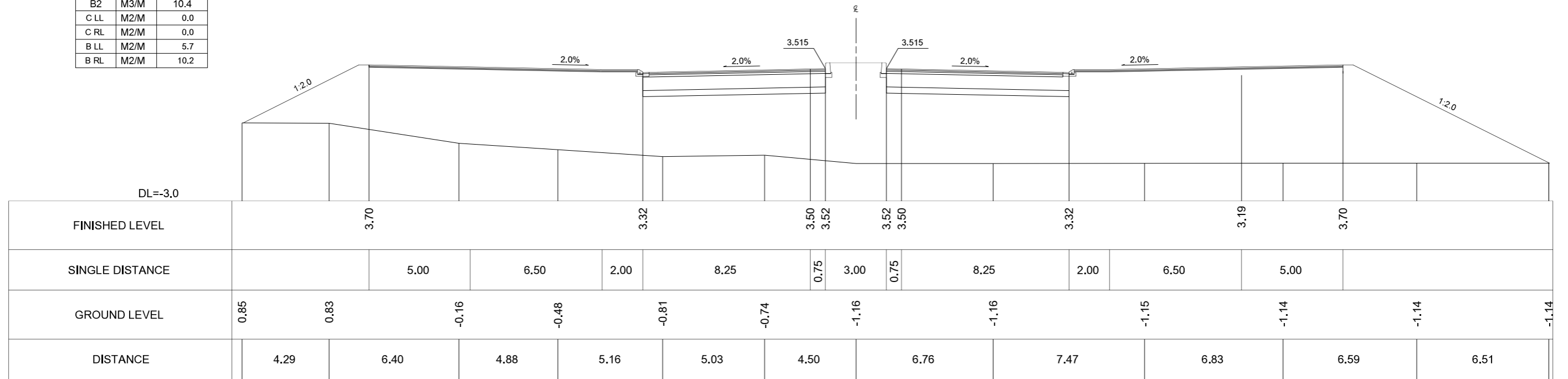
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD CROSS SECTION(11)
DRAWING No. RR-RD-0311 SCALE S=1:200
Rev No.

KM:11+500.00

C	M3/M	0.0
B1	M3/M	190.5
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	5.7
B RL	M2/M	10.2

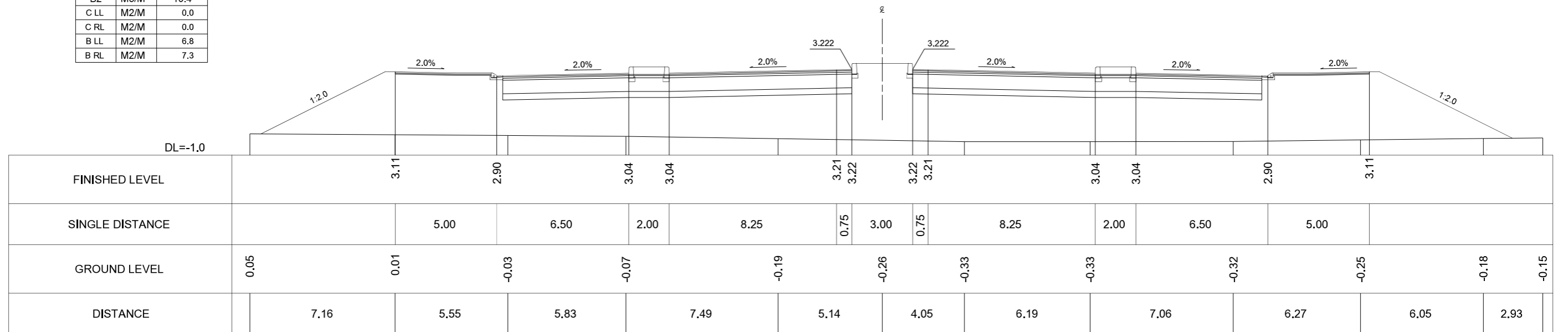
KM:11+500.00
GH=-1.16
FH= 3.515



KM:11+0.00

C	M3/M	0.0
B1	M3/M	139.0
B2	M3/M	10.4
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	6.8
B RL	M2/M	7.3

KM:11+0.00
GH=-0.26
FH= 3.222



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



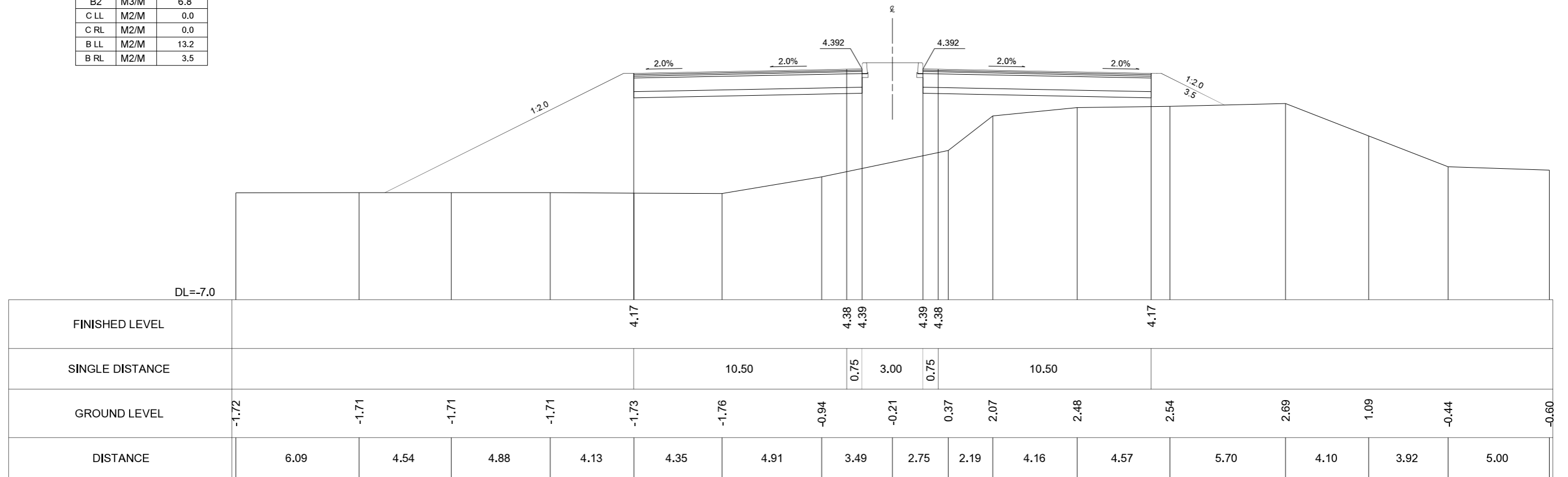
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(12)
DRAWING No. RR-RD-0312 SCALE S=1:200 Rev No.

KM:12+500.00

C	M3/M	0.0
B1	M3/M	118.9
B2	M3/M	6.8
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	13.2
B RL	M2/M	3.5

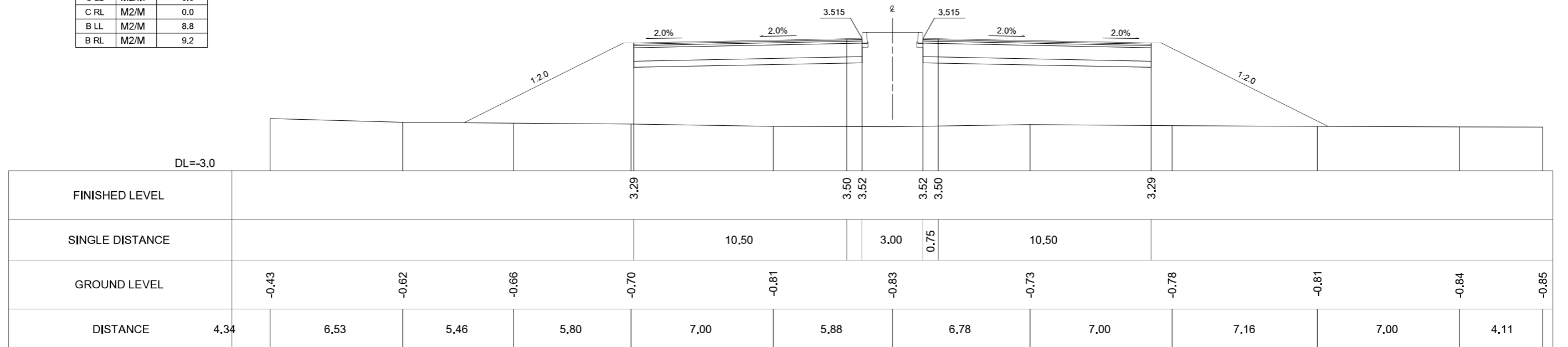
KM:12+500.00
GH=-0.21
FH= 4.392



KM:12+0.00

C	M3/M	0.0
B1	M3/M	116.8
B2	M3/M	6.8
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	8.8
B RL	M2/M	9.2

KM:12+0.00
GH=-0.83
FH= 3.515



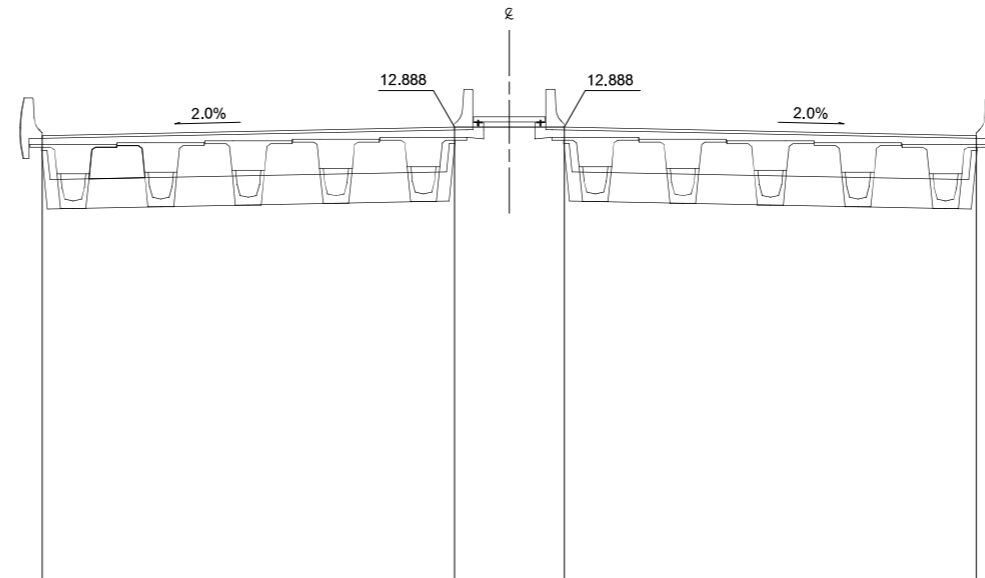
PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(13)
DRAWING No. RR-RD-0313 SCALE S=1:200
Rev No.

KM:13+0.00
GH= 0.35
FH=12.888



KM:13+0.00

C	M3/M	0.0
B1	M3/M	0.0
B2	M3/M	0.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	0.0
B RL	M2/M	0.0

	DL=-3.0														
FINISHED LEVEL	12.66 12.89 12.89 12.66														
SINGLE DISTANCE	11.25 3.00 11.25														
GROUND LEVEL	0.32	0.32	0.32	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.38
DISTANCE	4.68	4.78	4.80	3.96	4.28	5.07	4.50	4.50	4.50	4.96	4.94	5.10	4.80	3.25	

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



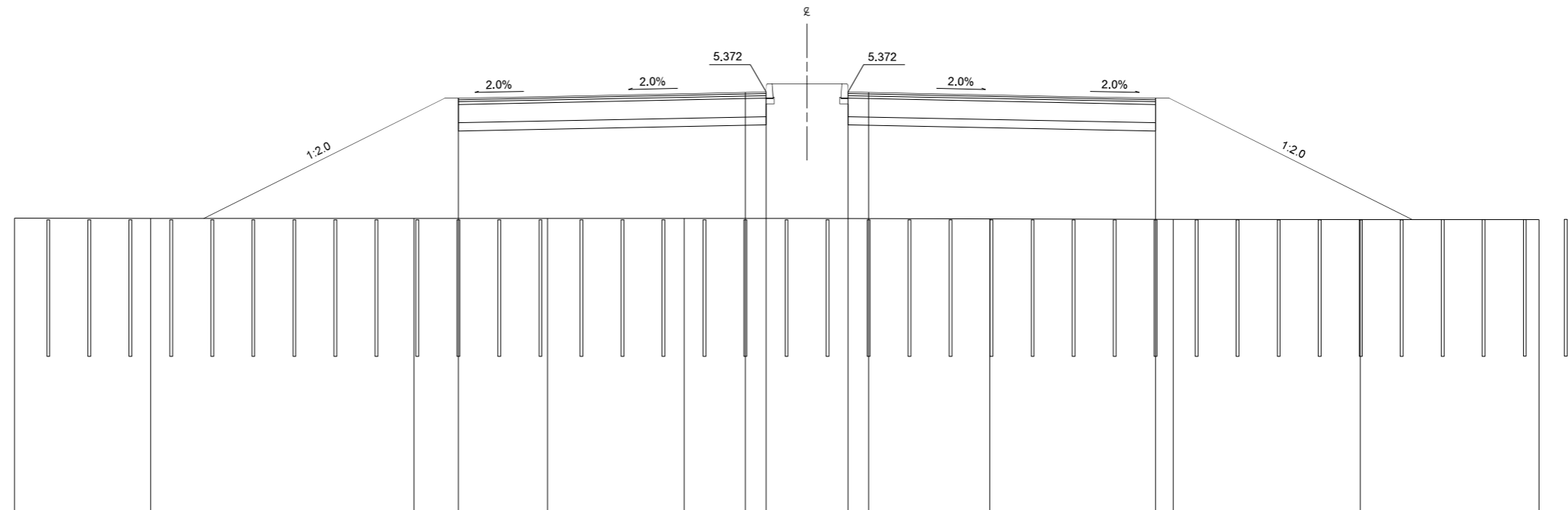
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD CROSS SECTION(14)				Rev No.
DRAWING No.	RR-RD-0314	SCALE	S=1:200	

KM:13+500.00

C	M3/M	0.0
B1	M3/M	132.8
B2	M3/M	6.8
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	9.8
B RL	M2/M	9.9

KM:13+500.00
GH=0.74
FH=5.372



FINISHED LEVEL	5.15													
SINGLE DISTANCE	10.5				0.75	3.00	0.75	10.5						
GROUND LEVEL	0.75	0.75	0.74	0.74	0.74	0.74	0.74	0.74	0.73	0.71	0.70	0.70		
DISTANCE		4.98	5.02	4.61	4.89	5.00	4.49	6.69	6.70	6.84	6.54			

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(15)

DRAWING No. RR-RD-0315 SCALE S=1:200

Rev No.

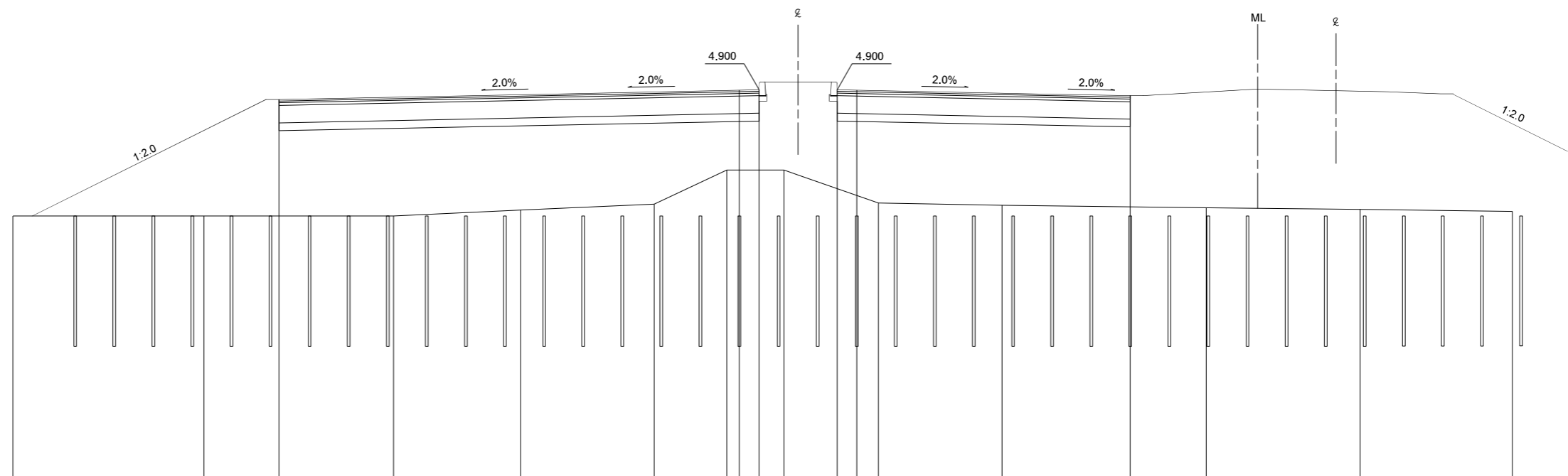
KM:14+00.00

C	M3/M	0.0
B1	M3/M	121.7
B2	M3/M	6.8
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	10.3
B RL	M2/M	9.8

KM:14+00.00
GH=1.62
FH=4.900

RAMP_D

DL=-10.0



FINISHED LEVEL	4.53		4.89		4.90		4.90		4.89		4.68		
SINGLE DISTANCE	17.68		0.75		3.00		0.75		10.50				
GROUND LEVEL	0.04	0.05	0.06	0.28	0.51	1.82	1.82	1.62	0.55	0.46	0.37	0.30	0.23
DISTANCE	7.34	7.28	4.88	5.14	2.78	2.20	0.54	3.08	4.75	7.83	5.92	5.84	

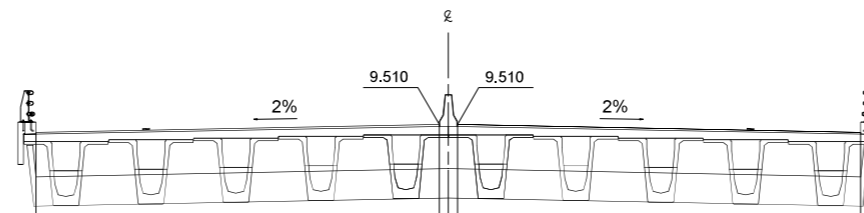
PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE:				Rev No.
RING ROAD 3RD CROSS SECTION(16)				
DRAWING No.	RR-RD-0316	SCALE	S=1:200	

KM:14+500.00
GH=0.87
FH=9.510



KM:14+500.00

C	M3/M	0.0
B1	M3/M	0.0
B2	M3/M	0.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	0.0
B RL	M2/M	0.0

DL=-3.0

FINISHED LEVEL	9.29												9.51	9.51	9.29
SINGLE DISTANCE					11.00				0.50	11.00					
GROUND LEVEL	0.86	0.86	0.86	0.86	0.86	0.86	0.87	0.88	0.89	0.90	0.91	0.92			
DISTANCE		5.10	6.11	6.29	5.00	7.39	4.50	4.50	5.90	5.82	6.24				

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



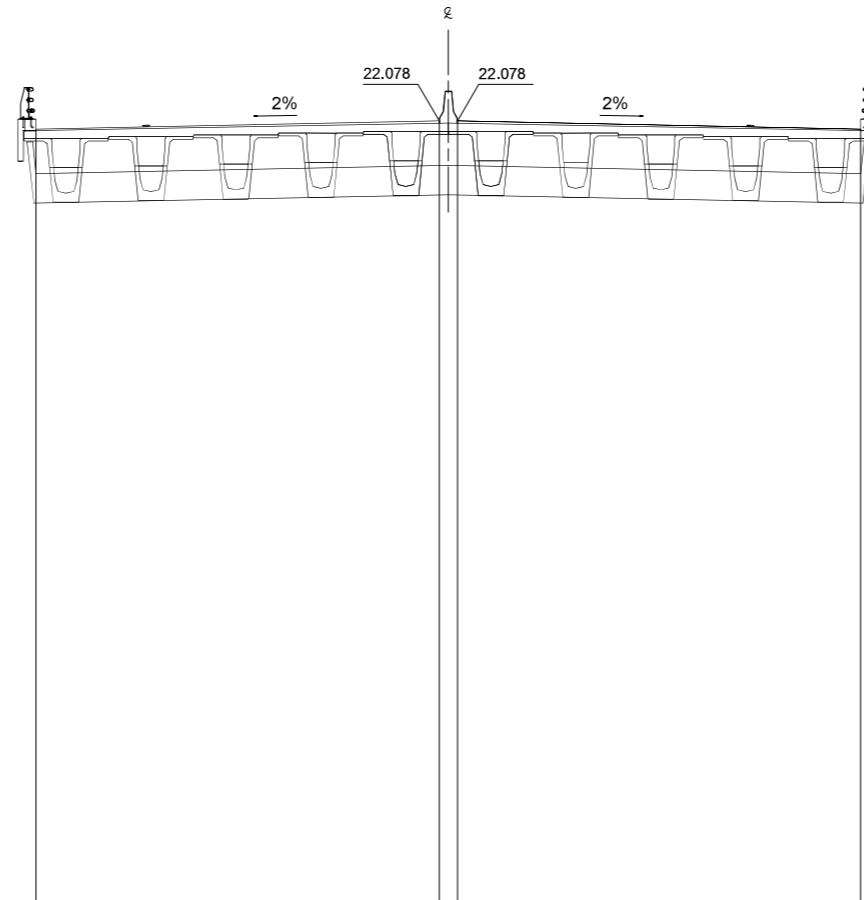
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(17)

DRAWING No. RR-RD-0317 SCALE S=1:200

Rev No.

KM:15+0.00
GH= 0.78
FH=22.078



KM:15+0.00

C	M3/M	0.0
B1	M3/M	0.0
B2	M3/M	0.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	0.0
B RL	M2/M	0.0

	DL=-3.0											
FINISHED LEVEL				21.86				22.08 22.08				21.86
SINGLE DISTANCE					11.00			0.50	11.00			
GROUND LEVEL	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.76	0.75		
DISTANCE	5.50	5.42	5.52	6.57	7.00	3.13	7.00	7.53	7.29	7.23		

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

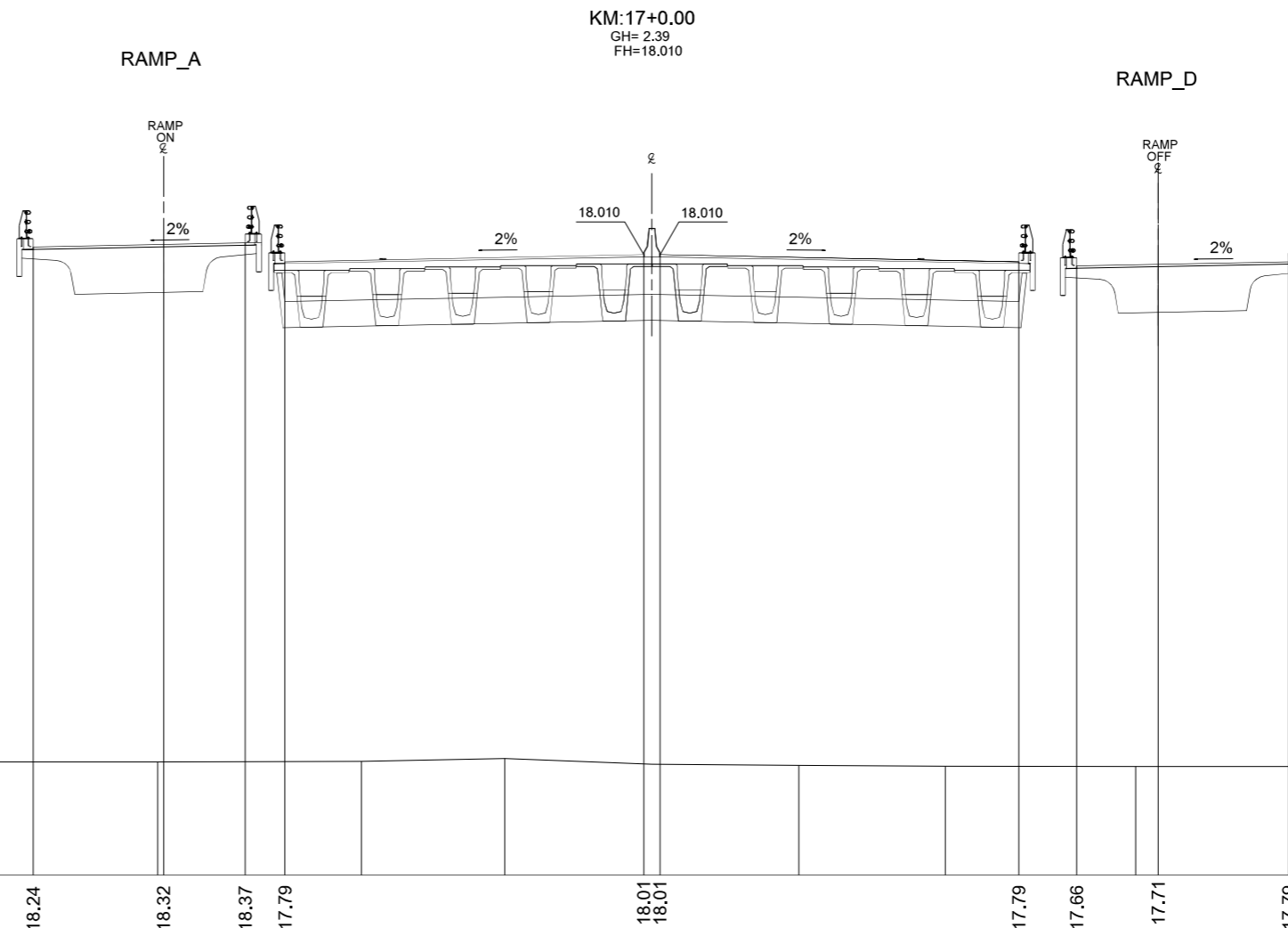
DRAWING TITLE: RING ROAD 3RD
CROSS SECTION(18)

DRAWING No.	RR-RD-0318	SCALE	S=1:200
-------------	------------	-------	---------

Rev No.

KM:17+0.00

C	M3/M	0.0
B1	M3/M	0.0
B2	M3/M	0.0
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	0.0
B RL	M2/M	0.0



FINISHED LEVEL	18.24 18.32 18.37 17.79 18.01 18.01 17.79 17.66 17.71 17.79													
SINGLE DISTANCE	4.00 2.50 1.22			11.00				0.50		11.00			1.78 2.50 4.00	
GROUND LEVEL	2.48	2.47	2.46	2.47	2.48	2.57	2.39	2.36	2.33	2.32	2.32	2.31	2.31	
DISTANCE	5.13	5.77	5.99	6.25	4.40	4.51	4.50	4.50	5.84	5.66	5.81	5.69		

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

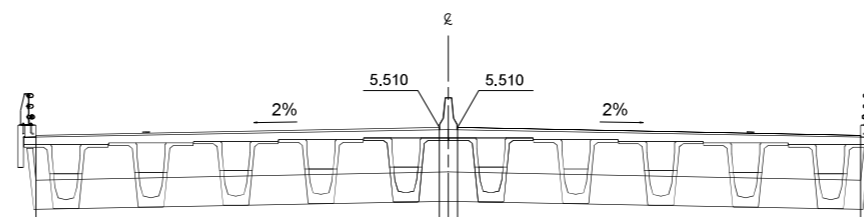
DRAWING TITLE: RING ROAD 3RD CROSS SECTION(19)
 DRAWING No. RR-RD-0319 SCALE S=1:200

Rev No.

KM:17+500.00

C	M3/M	0.0
B1	M3/M	77.6
B2	M3/M	3.6
C LL	M2/M	0.0
C RL	M2/M	0.0
B LL	M2/M	13.2
B RL	M2/M	13.2

KM:17+500.00
GH=0.28
FH=5.510



	DL=-3.0											
FINISHED LEVEL	5.29 5.51 5.51 5.29											
SINGLE DISTANCE	11.00 0.50 11.00											
GROUND LEVEL	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
DISTANCE	5.62	5.88	5.39	5.67	4.50	4.50	7.47	7.00	7.46	7.20		

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

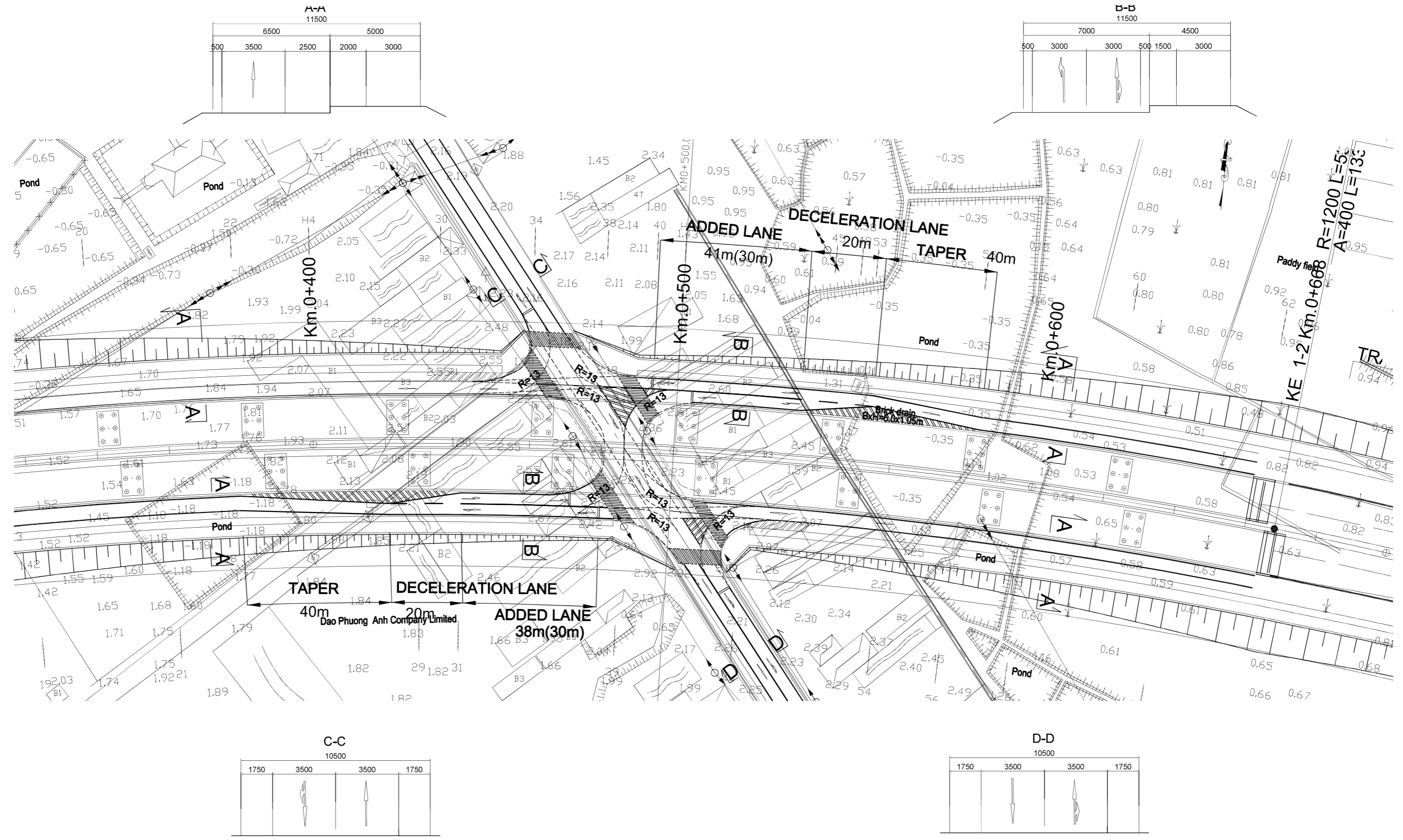


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD CROSS SECTION(20)				Rev No.
DRAWING No.	RR-RD-0320	SCALE	S=1:200	

TO THUY NGUYEN

TO HAI AN



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

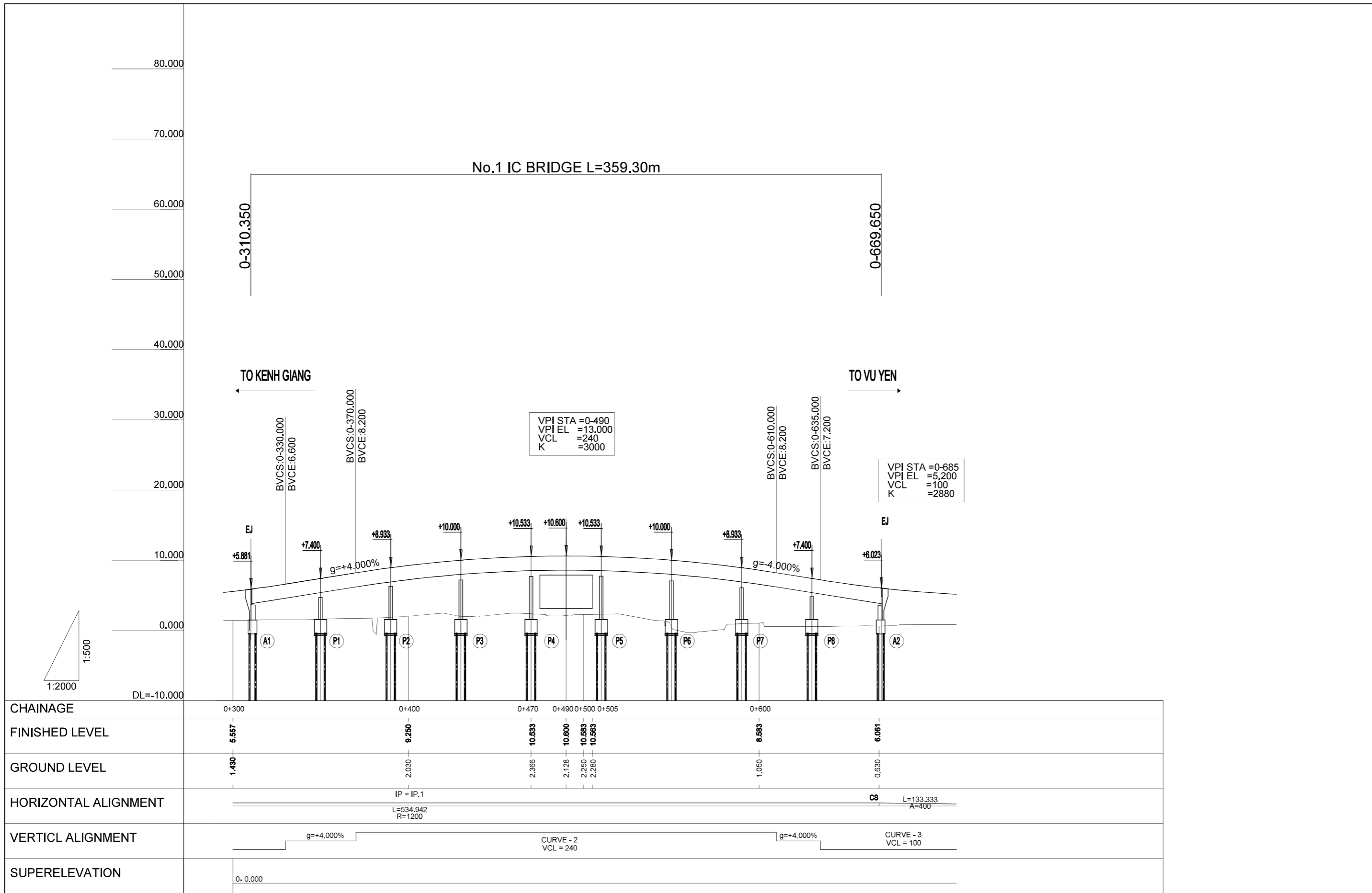


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.


DRAWING TITLE: RING ROAD 3RD NO.1 IC INTERSECTION PLAN

Rev No.

DRAWING No.	RD-RR-0401	SCALE	S=1:1000
-------------	------------	-------	----------

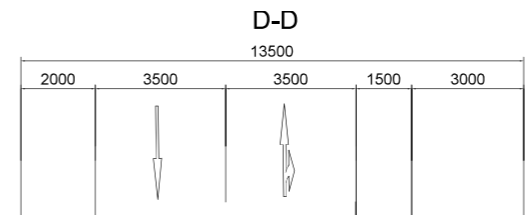
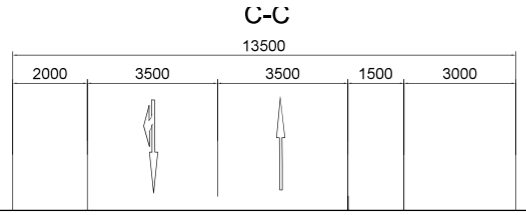
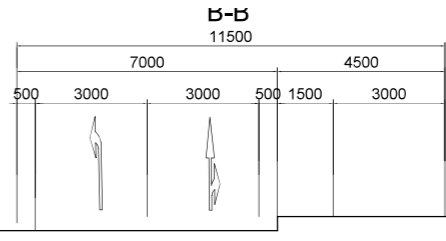
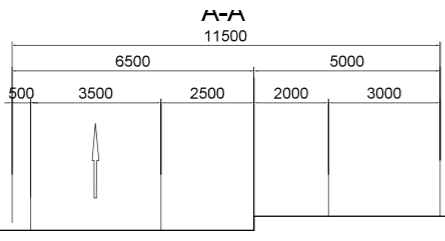
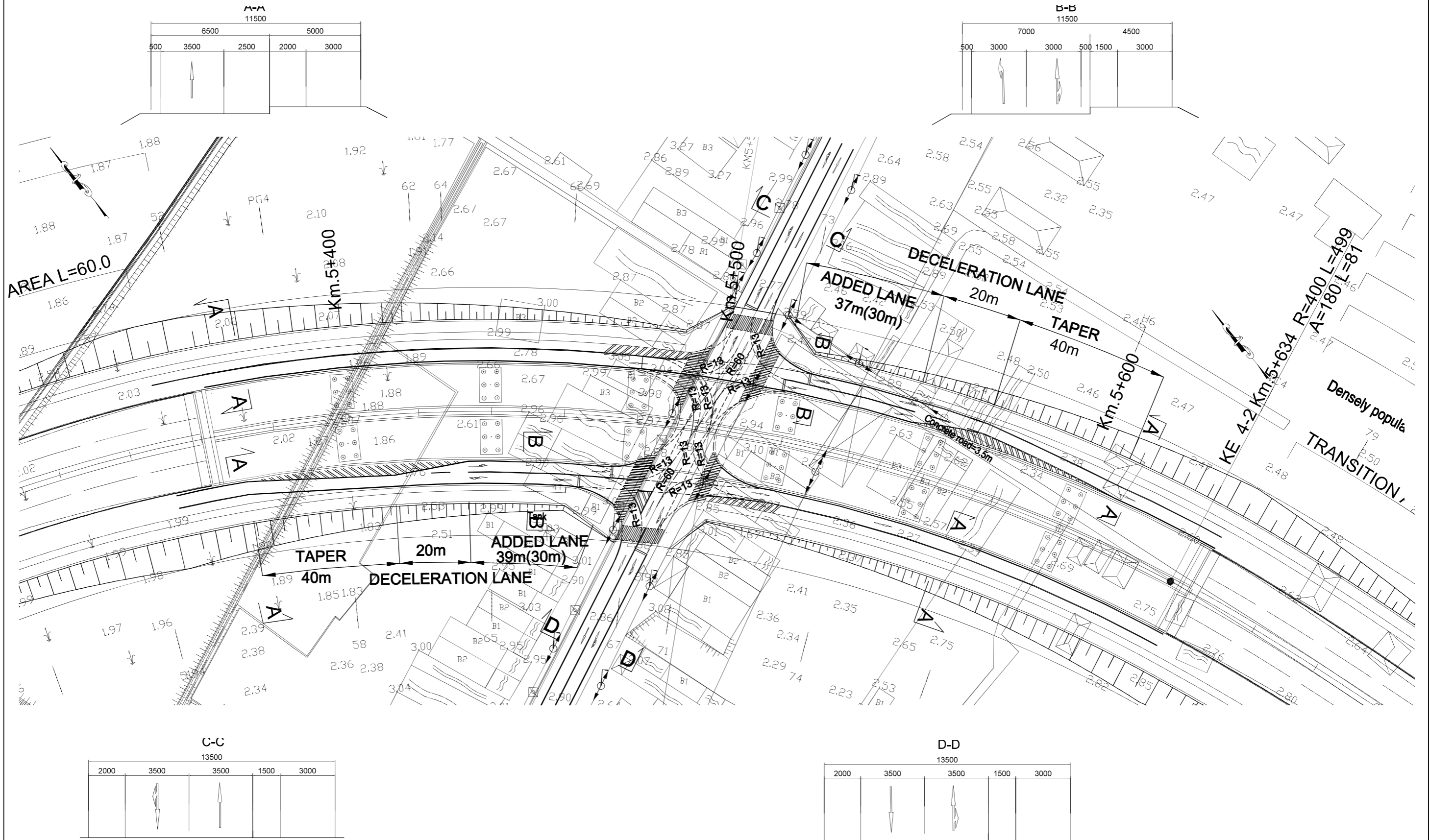


CHAINAGE	0+300	0+400	0+470	0+490+500	0+505	0+600	0+661	
FINISHED LEVEL	5.557	9.250	10.533	10.600	10.563	8.583	6.061	
GROUND LEVEL	1.430	2.030	2.366	2.128	2.250	2.280	0.630	
HORIZONTAL ALIGNMENT	IP = IP.1 L=534.942 R=1200						CS	L=133.333 A=400
VERTICAL ALIGNMENT	g=+4.000%		CURVE - 2 VCL = 240			g=+4.000% CURVE - 3 VCL = 100		
SUPERELEVATION	0-0.000							

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD No.1 IC PROFILE			Rev No.
			DRAWING No.	RR-RD-0402	SCALE	V=1:500 S=1:2000

TO THUY NGUYEN

TO HAI AN

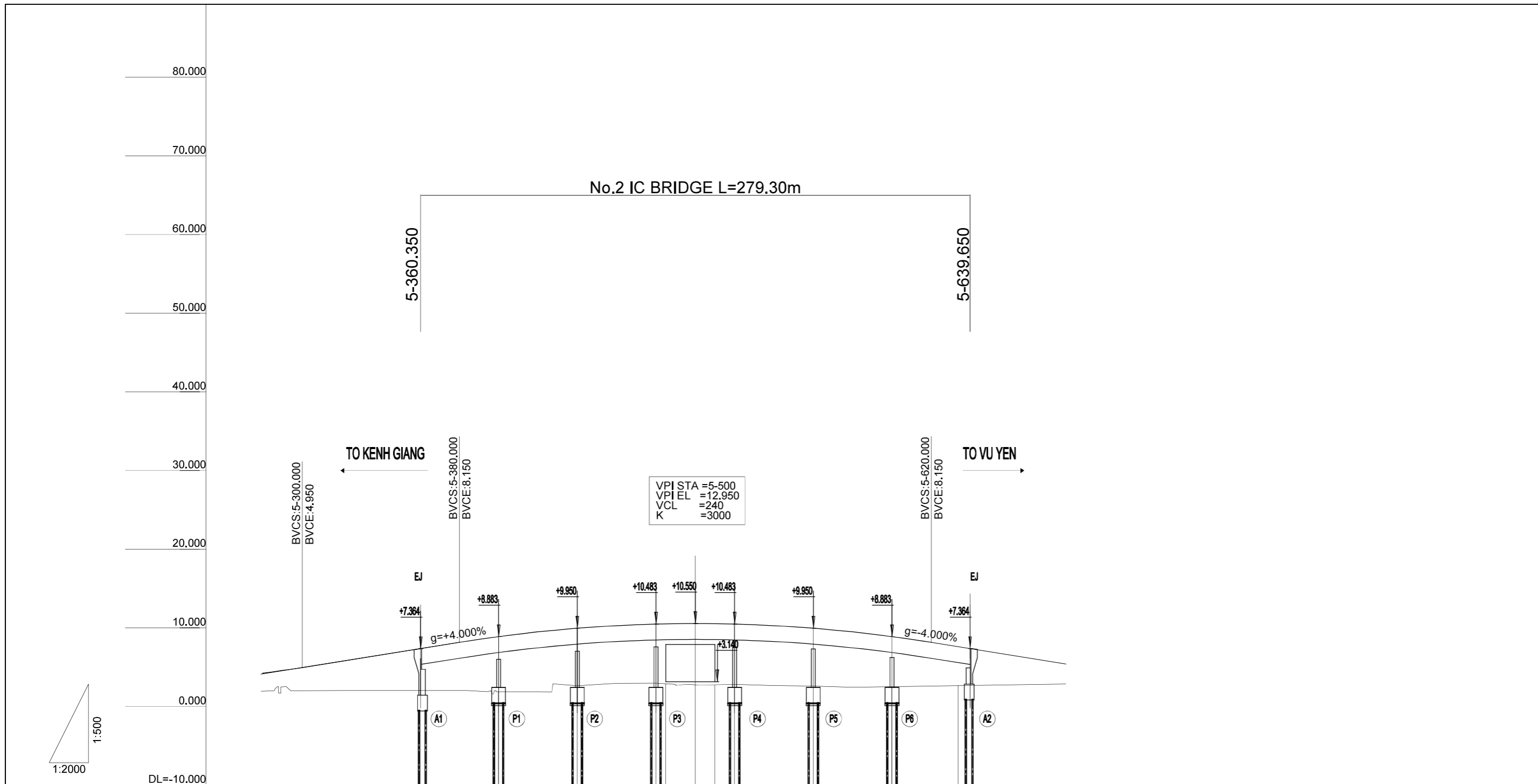


PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD NO.2 IC INTERSECTION PLAN				Rev No.
DRAWING No.	RD-RR-0403	SCALE	S=1:1000	



CHAINAGE	5+400	5+485.000	5+500	5+510.000	5+600	5+633.691
FINISHED LEVEL	8.883	10.513	10.550	10.533	8.883	7.602
GROUND LEVEL	1.870	2.904	2.760	2.770	2.520	2.655
HORIZONTAL ALIGNMENT	IP = IP.4 L=499.284 R=400		R=∞		CS L=81 A=180	
VERTICAL ALIGNMENT	CURVE -30 VCL = 100 g=+4.000%		CURVE -31 VCL = 240		g=-4.000%	
SUPERELEVATION	0-0.000					

PROJECT:
**PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT**



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS:
JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

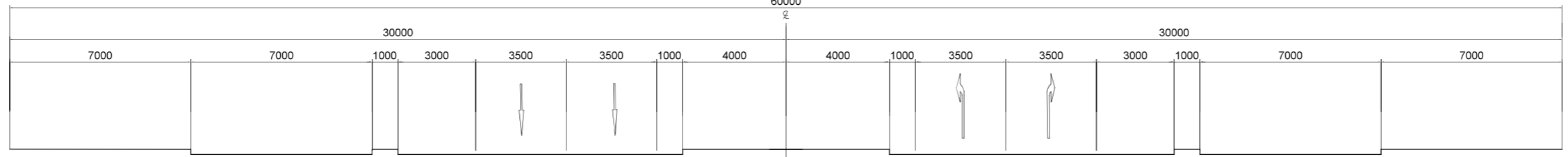
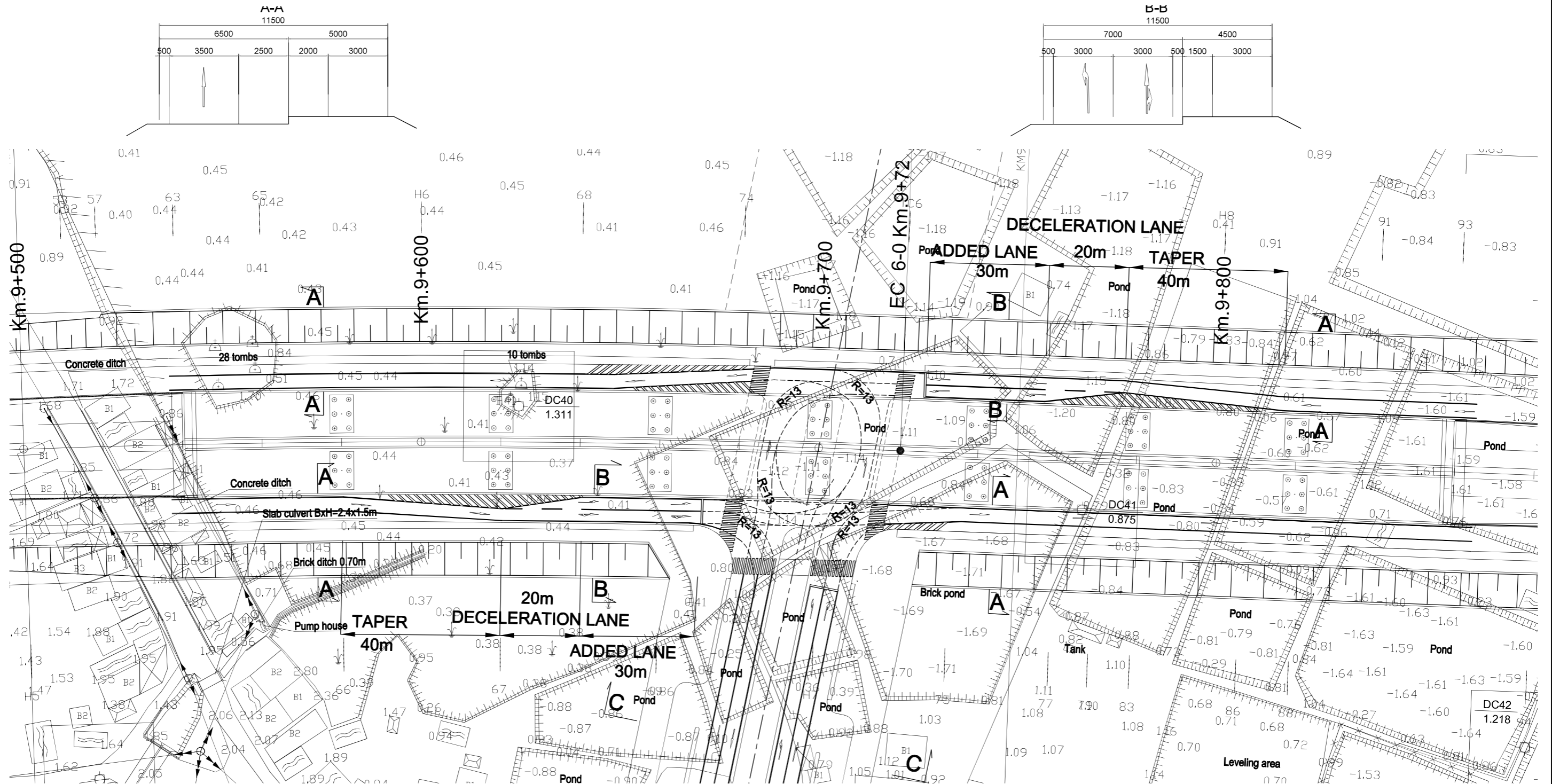
DRAWING TITLE:
**RING ROAD 3RD
No.2 IC PROFILE**

DRAWING No.	RR-RD-0404	SCALE	V=1:500 S=1:2000
-------------	------------	-------	------------------

Rev No.

TO THUY NGUYEN

TO HAI AN



PROJECT: **PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT**

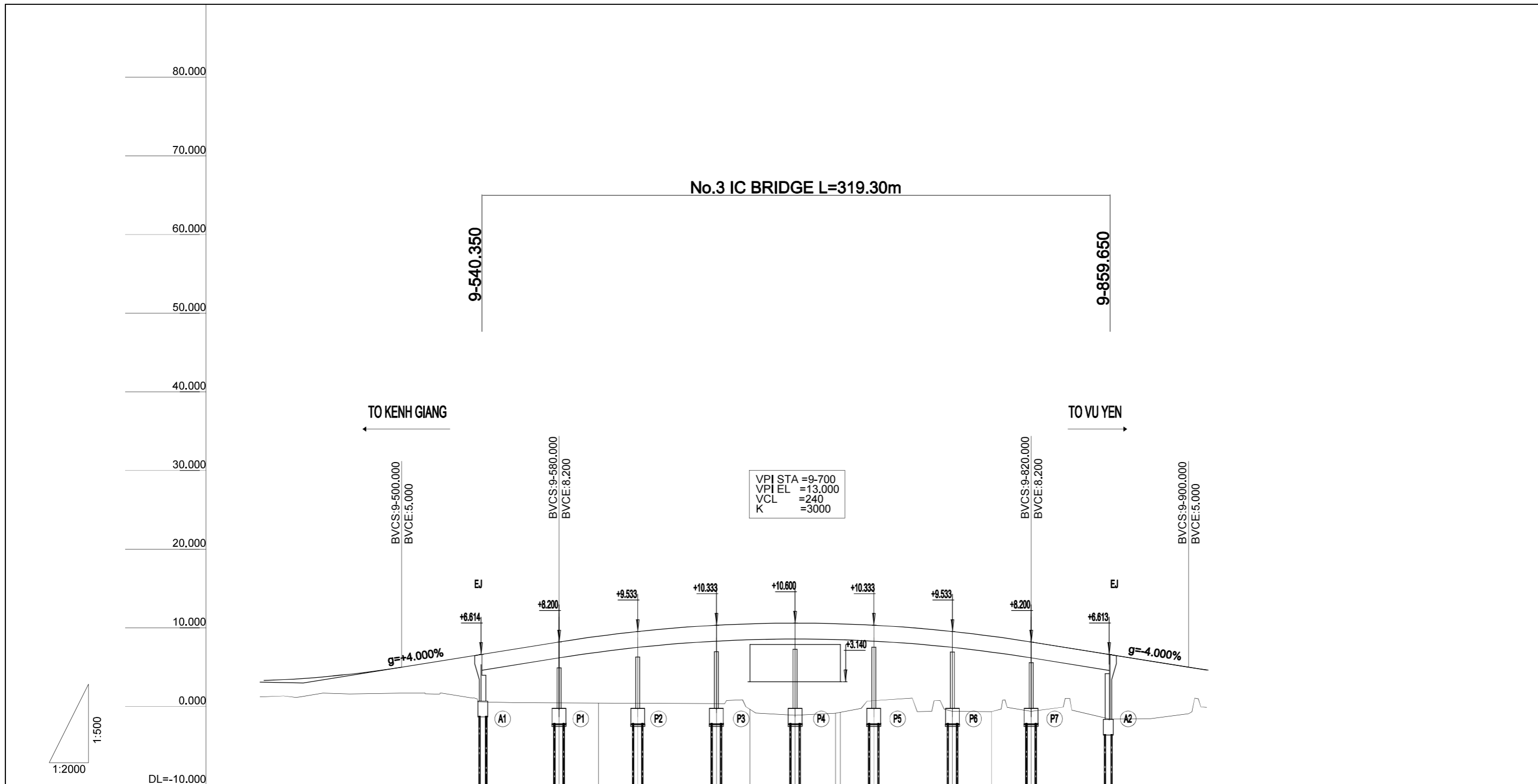


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: **JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.**

DRAWING TITLE: **RING ROAD 3RD NO.3 IC INTERSECTION PLAN**

DRAWING No.	RD-RR-0405	SCALE	S=1:1000
-------------	------------	-------	----------

Rev No.



CHAINAGE	9+600	9+677.000	9+700	9+720.549	9+723.000	9+800
FINISHED LEVEL	8.933	10.512	10.600	10.530	10.512	8.933
GROUND LEVEL	0.430	-0.352	-1.120	-0.850	-0.737	-0.650
HORIZONTAL ALIGNMENT	IP = IP.6 L=994.751 R=3000			EC	R=∞ L=2134.72	
VERTICAL ALIGNMENT	CURVE - 54 VCL = 100		CURVE - 55 VCL = 240		g=-4.000%	
SUPERELEVATION	0-0.000					

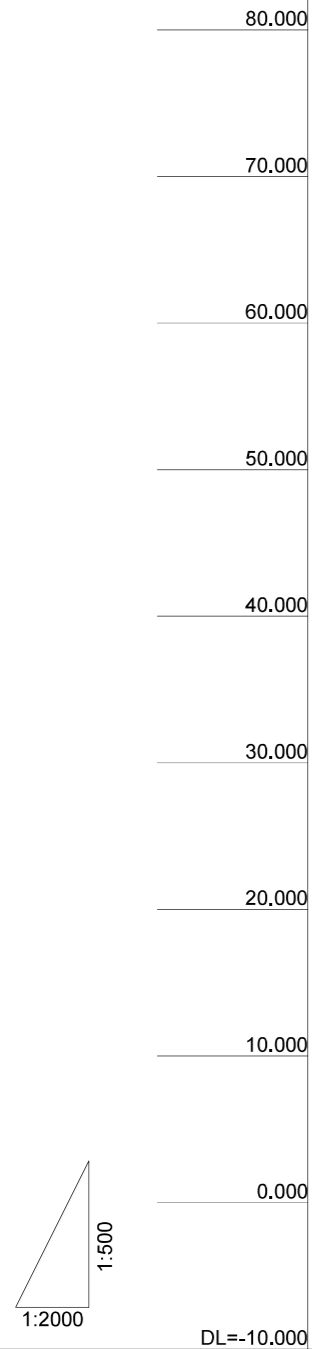
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD No.3 IC PROFILE
DRAWING No. RR-RD-0406 SCALE V=1:500 S=1:2000

Rev No.



MERGING NOSE: 0-0.00
RR3: 13-980.000

INTERSECTION: 0-120.041
Ramp_B: 0-120.216

CHAINAGE	BP					0+100	0+120.041
FINISHED LEVEL	4.471	4.255	4.250	4.350	4.450	4.550	4.650
GROUND LEVEL	0.120	-0.200	0.120	0.170	0.230	0.290	0.350
HORIZONTAL ALIGNMENT							
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40		g=+0.500%				
SUPERELEVATION	0-0.000						

PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

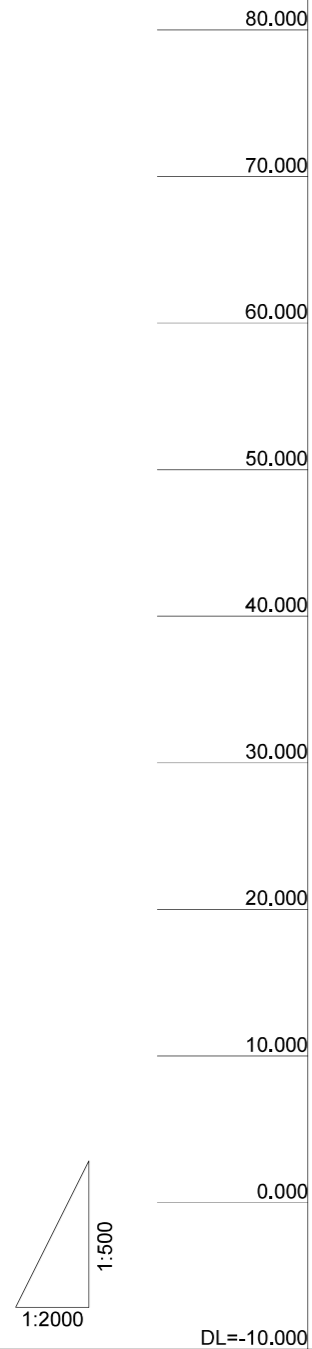


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
VUYEN ISLAND IC RAMP_A PROFILE

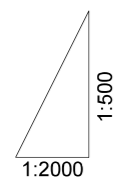
Rev No.

DRAWING No.	RR-RD-0501	SCALE	V=1:500 S=1:2000
-------------	------------	-------	------------------



DIVERGING NOSE: 0-0.00
RR3: 13-740.000

INTERSECTION: 0-120.216
Ramp_A: 0-120.041



DL=-10.000

CHAINAGE	BP					0+100
FINISHED LEVEL	4.259	4.216	4.288	4.416	4.545	4.641
GROUND LEVEL	0.525	0.496	0.467	0.438	0.409	0.379
HORIZONTAL ALIGNMENT	R= ∞ L=120.216					
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40		g=+0.643%		CURVE - 2 VCL = 40	
SUPERELEVATION	0-0.000					

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

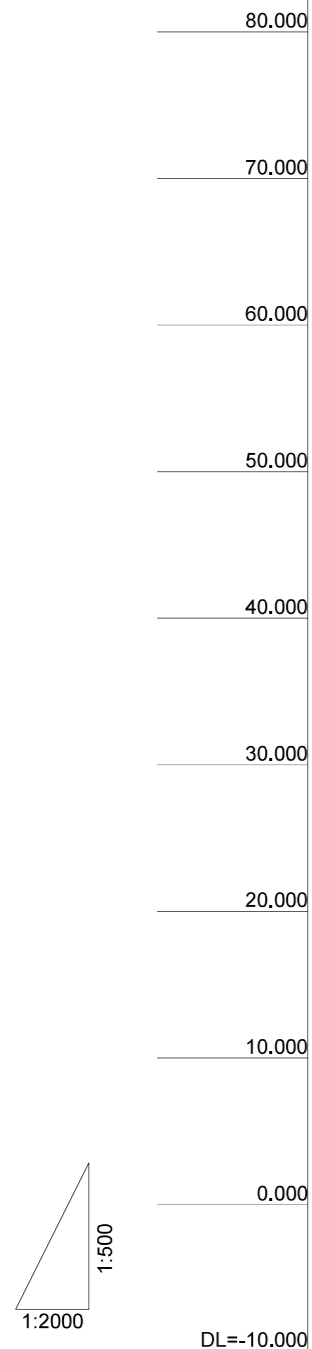


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD VUYEN ISLAND IC RAMP_B PROFILE

DRAWING No.	RR-RD-0502	SCALE	V=1:500 S=1:2000
-------------	------------	-------	------------------

Rev No.



MERGING NOSE: 0-0.00
RR3: 13-820.000

INTERSECTION: 0-120.041
Ramp_D: 0-120.219

CHAINAGE	BP				0+100		0+120.041
FINISHED LEVEL	3.916	3.959	4.168	4.460	4.752	4.996	5.144 5.144
GROUND LEVEL	0.150	0.132	0.114	0.096	0.078	0.060	0.150 0.150
HORIZONTAL ALIGNMENT	R= ∞ L=120.041						
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40 g=+1.460% CURVE - 2 VCL = 40 g=+0.500%						
SUPERELEVATION	0-0.000						

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT

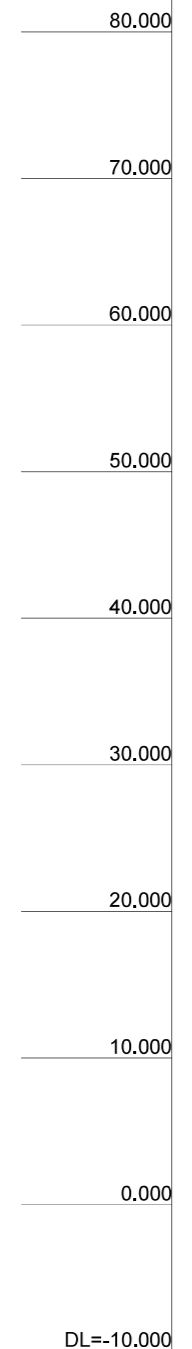


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD VUYEN ISLAND IC RAMP_C PROFILE

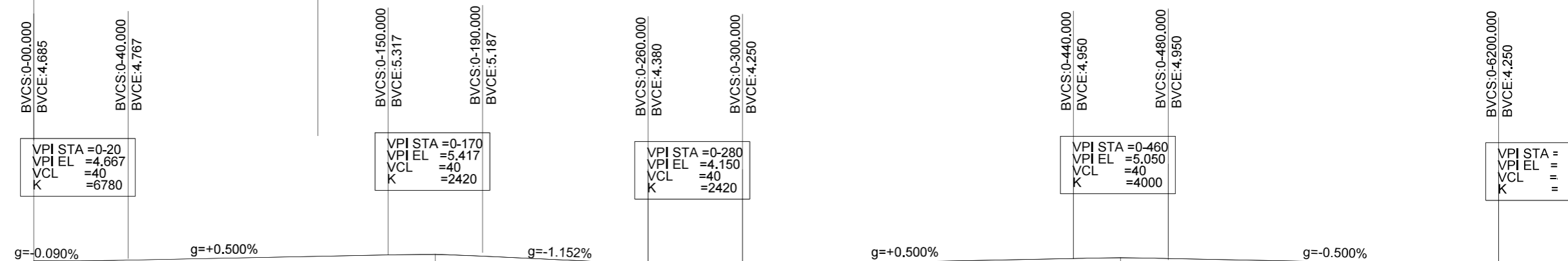
DRAWING No.	RR-RD-0503	SCALE	V=1:500 S=1:2000
-------------	------------	-------	------------------

Rev No.



DIVERGING NOSE: 0-0.00
RR3: 0-140.600

INTERSECTION: 0-120.219
Ramp_C: 0-120.041



CHAINAGE	BP	0+100	0+120.219	0+170	0+200	0+300	0+400	0+500	0+600																													
FINISHED LEVEL	4.685	4.697	4.767	4.867	4.967	5.067	5.167	5.188	5.267	5.346	5.334	5.281	5.274	5.071	4.841	4.611	4.380	4.233	4.250	4.350	4.450	4.550	4.650	4.750	4.850	4.950	5.000	4.950	4.850	4.750	4.650	4.550	4.450	4.350	4.250	4.200		
GROUND LEVEL	0.360	0.648	0.936	1.224	1.512	1.800	1.611	1.609	1.423	1.234	1.140	1.046	1.037	0.857	0.669	0.480	0.480	0.480	0.480	0.479	0.475	0.471	0.464	0.457	0.457	0.450	0.442	0.435	0.428	0.420	0.420	0.413	0.408	0.400	0.400	0.400	0.384	0.354
HORIZONTAL ALIGNMENT																				IP=IP.1 R=140 L=219.911											R=∞ L=475.92							
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40		g=+0.500%				CURVE - 2 VCL = 40		g=+0.521%		CURVE - 3 VCL = 40		g=+0.500%				CURVE - 4 VCL = 40		g=-0.500%				CURVE VCL = .															
SUPERELEVATION	0-0.000																																					

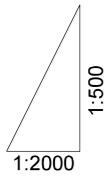
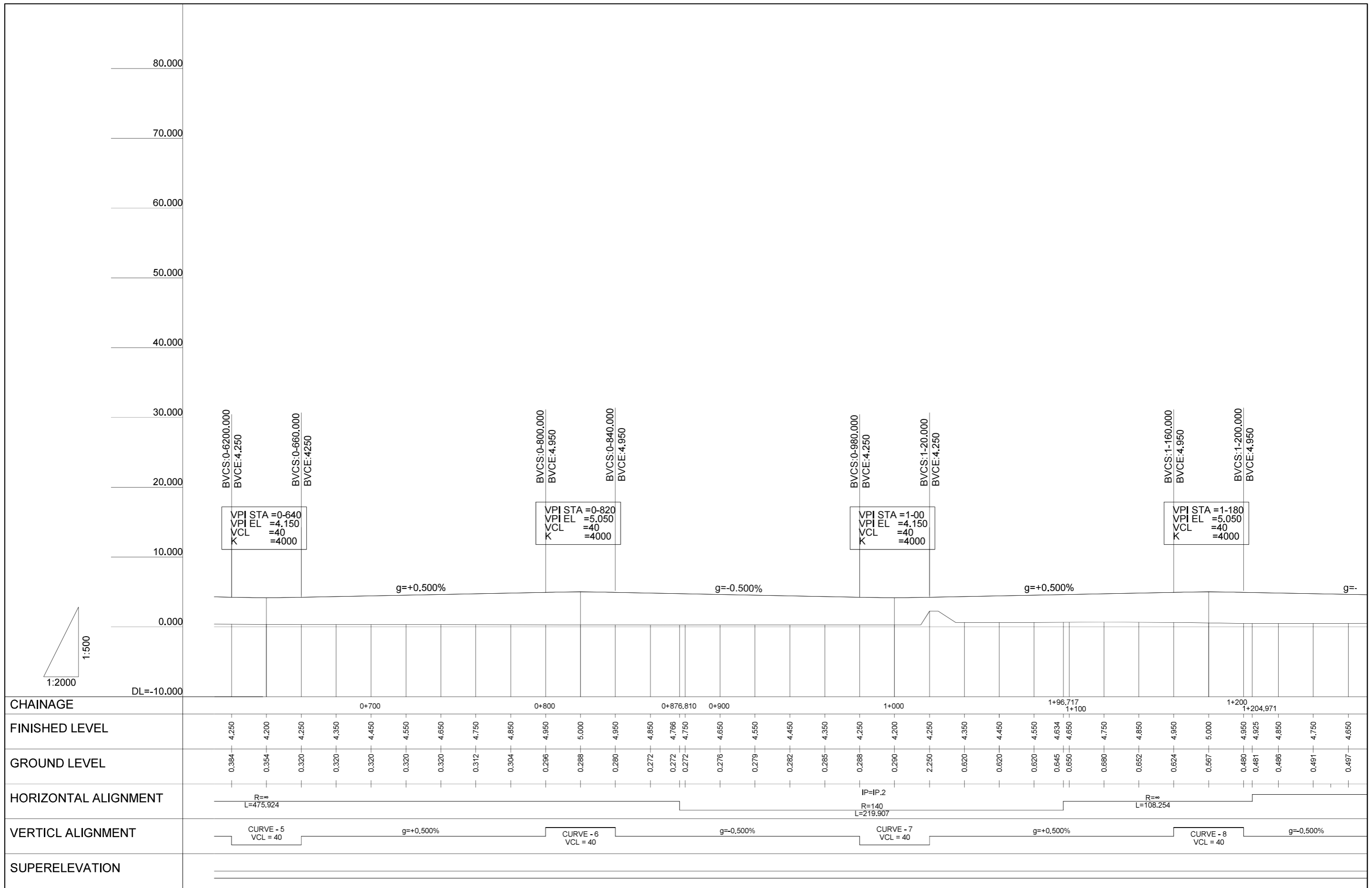
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT




JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

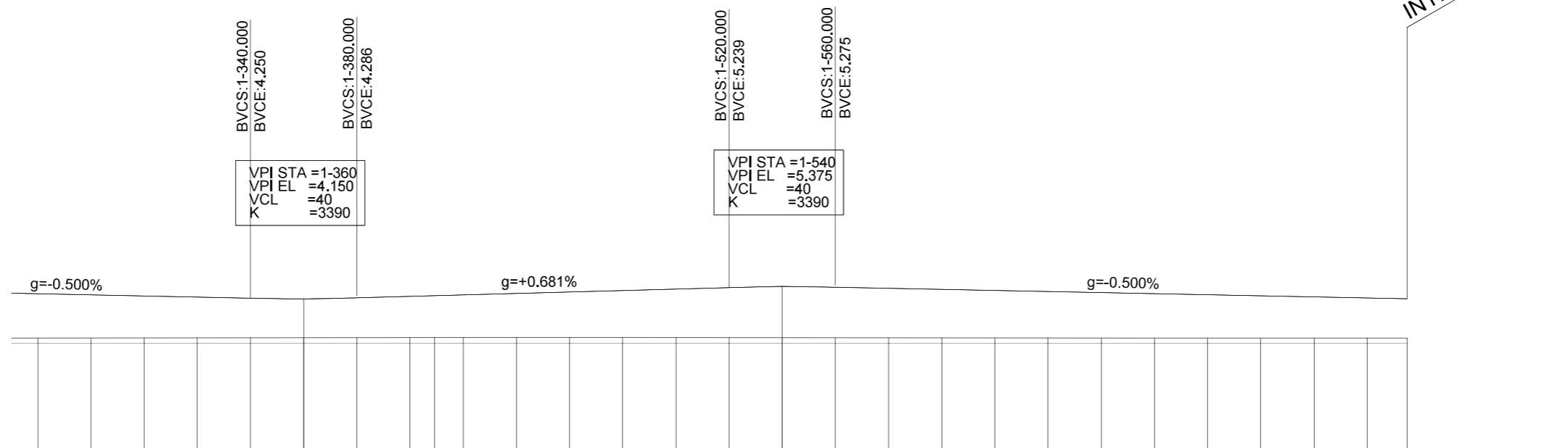
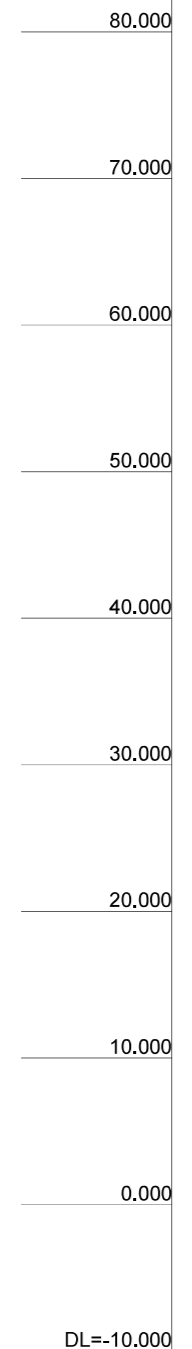
DRAWING TITLE: RING ROAD 3RD VUYEN ISLAND IC RAMP_D PROFILE(1)
DRAWING No. RR-RD-0504 SCALE V=1:500 S=1:2000

Rev No.



PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD VUYEN ISLAND IC RAMP_D PROFILE(2)		Rev No.
			DRAWING No. RR-RD-0505	SCALE V=1:500 S=1:2000	

INTERSECTION: 1-775.000
Vu Yen Road



CHAINAGE	1+300	1+400	1+409.309	1+500	1+600	1+700	1+775.000																							
FINISHED LEVEL	4.650	4.550	4.450	4.350	4.250	4.209	4.286	4.422	4.486	4.568	4.694	4.831	4.967	5.103	5.239	5.316	5.275	5.175	5.075	4.975	4.875	4.775	4.675	4.575	4.475	4.375	4.275	4.200		
GROUND LEVEL	0.497	0.502	0.508	0.514	0.519	0.525	0.530	0.536	0.539	0.542	0.547	0.548	0.543	0.539	0.535	0.530	0.528	0.522	0.517	0.513	0.509	0.504	0.500	0.500	0.500	0.500	0.500	0.500		
HORIZONTAL ALIGNMENT	IP=IP.3 R=600 L=204.338										IP=IP.4 R=600 L=365.692																			
VERTICAL ALIGNMENT	g=-0.500%		CURVE - 9 VCL = 40		g=+0.681%										CURVE - 10 VCL = 40		g=-0.500%													
SUPERELEVATION																														

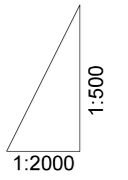
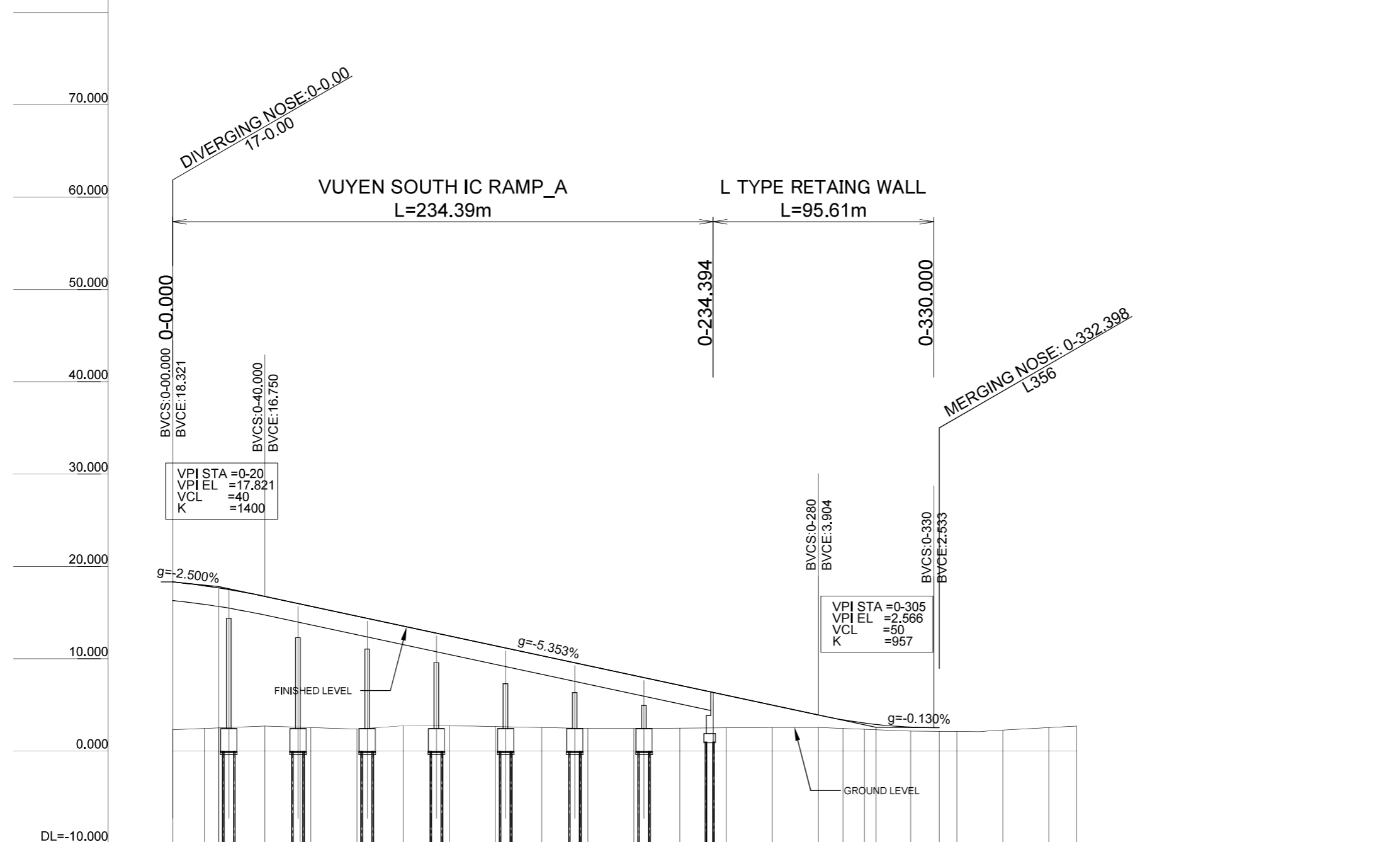
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD VUYEN ISLAND IC RAMP_D PROFILE(3)
DRAWING No. RR-RD-0506 SCALE V=1:500 S=1:2000

Rev No.



CHAINAGE	BP	0+13.739	0+55.406	0+100	0+200	0+290.732	0+305.000	0+332.398	0+391.973																			
FINISHED LEVEL	18.321	17.910	17.678	16.750	15.926	15.680	14.609	13.639	12.468	11.398	10.327	9.257	8.186	7.115	6.045	4.974	3.904	3.390	3.042	2.882	2.598	2.530	2.520	2.494	2.468	2.453		
GROUND LEVEL	2.320	2.451	2.510	2.700	2.581	2.545	2.390	2.740	2.713	2.648	2.544	2.440	2.450	2.483	2.517	2.550	2.550	2.451	2.365	2.319	2.180	2.151	2.133	2.285	2.545	2.700		
HORIZONTAL ALIGNMENT	R=∞ L=13.739 CS		L=41.667 A=50 SC		IP = IP,1 L=235.326 R=60		L=41.667 A=50 SC		CS		R=∞ L=59.575																	
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40		g=-5.353%										CURVE - 2 VCL = 40		g=-0.130%													
SUPERELEVATION	0-0.000																											

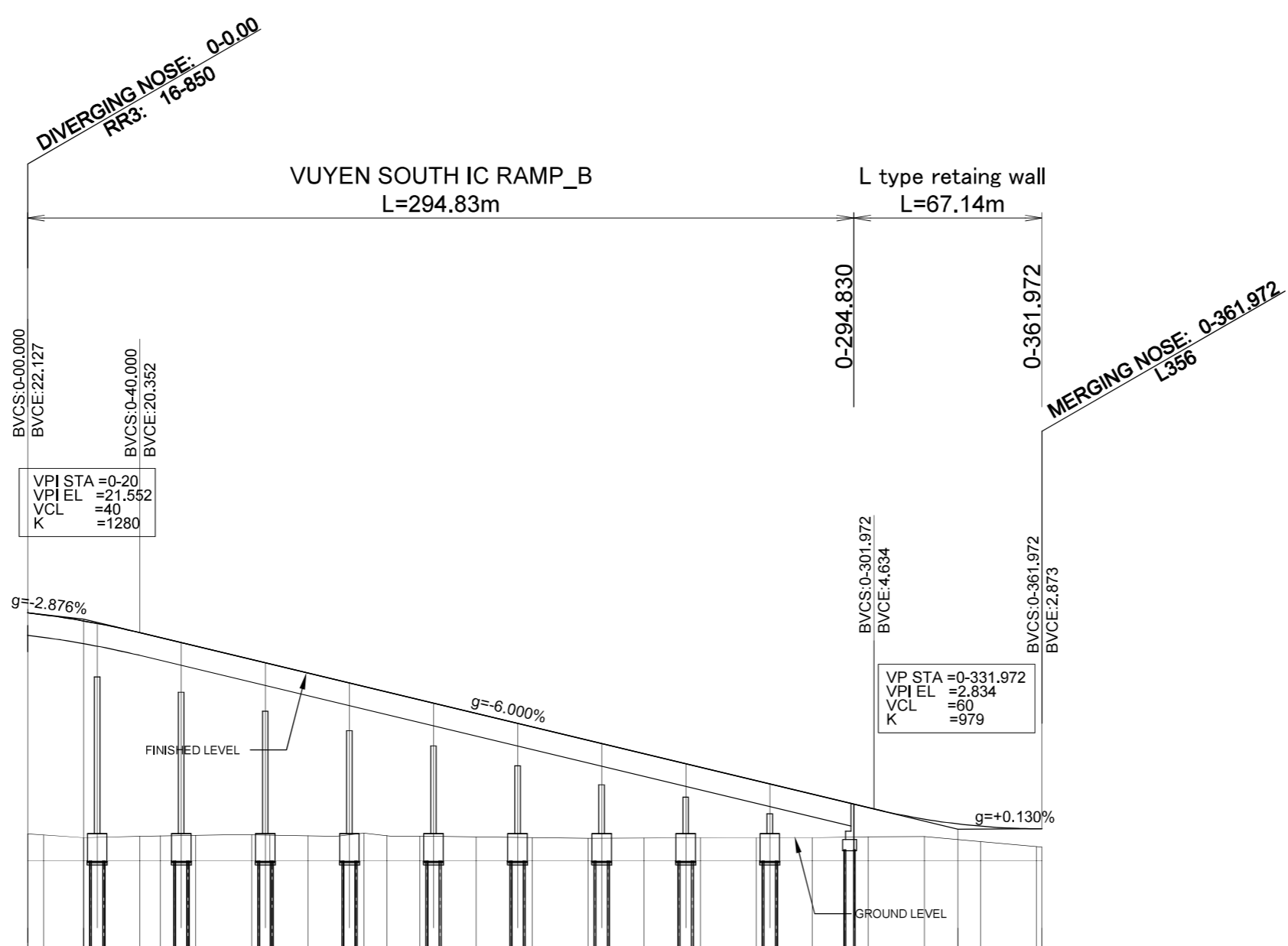
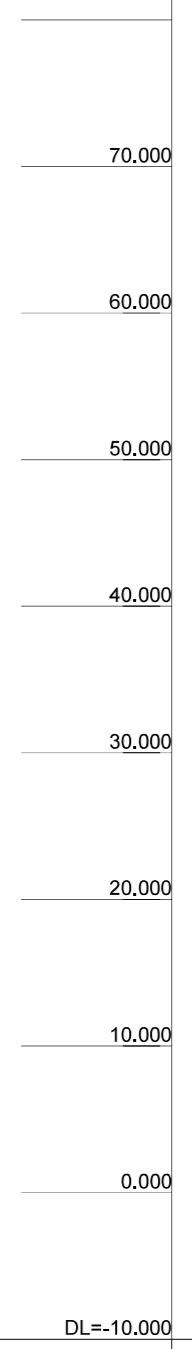
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD VUYEN SOUTH IC RAMP_A PROFILE
 DRAWING No. RR-RD-0601 SCALE V=1:500 S=1:2000

Rev No.



CHAINAGE	BP 0+5.686	0+47.353	0+86.504 0+100	0+128.170	0+200	0+300	0+331.972	0+361.972																		
FINISHED LEVEL	22.127	21.951	21.396	20.352	19.911	19.152	17.952	17.562	16.752	15.552	15.062	14.352	13.152	11.952	10.752	9.552	8.352	7.152	5.952	4.752	3.718	3.294	3.091	2.872	2.873	
GROUND LEVEL	2.400	2.303	2.060	2.200	2.227	2.274	2.311	2.287	2.237	2.460	2.248	2.193	2.138	2.069	2.000	2.028	2.056	2.070	2.070	2.140	2.160	1.889	1.708	1.255	1.210	
HORIZONTAL ALIGNMENT	$R=\infty$ $L=5.686$ CS $L=41.667$ A=50 SC $L=39.151$ R=60 SC $L=41.667$ A=50 CS $R=\infty$ L=233.802																									
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40 $g=-6.000\%$ CURVE - 2 VCL = 60 $g=+0.130\%$																									
SUPERELEVATION	0-0.000																									

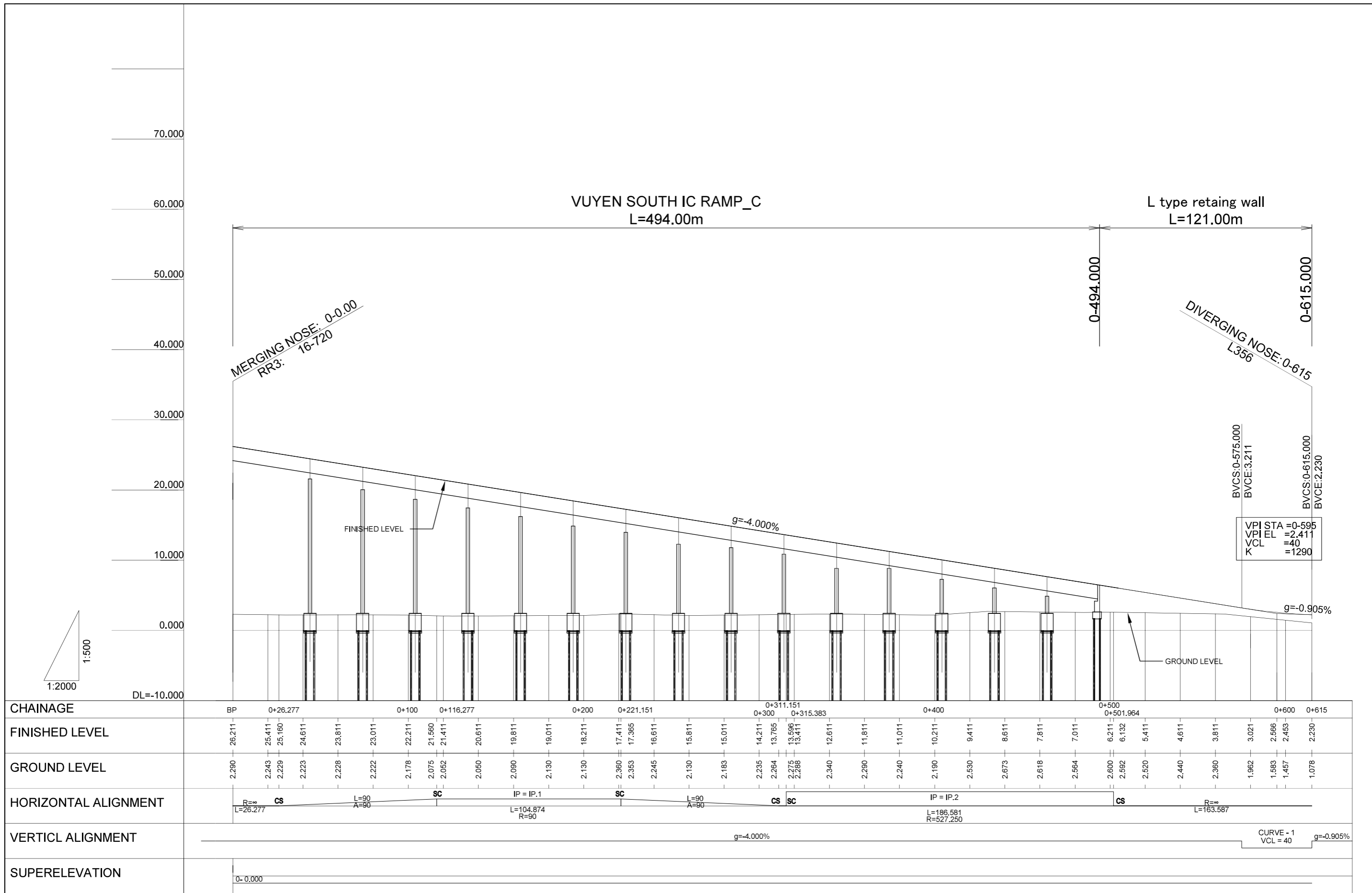
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT




JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

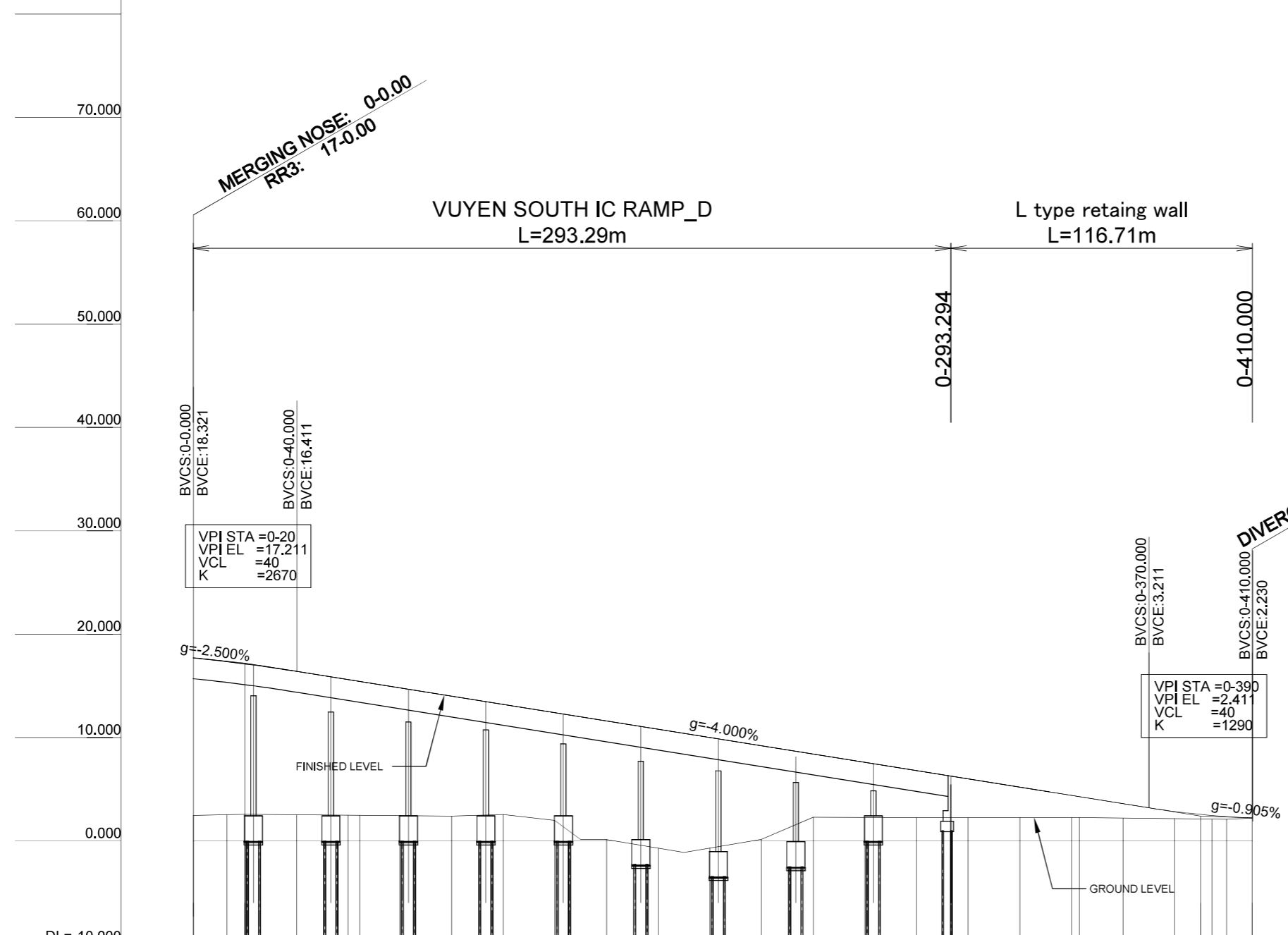
DRAWING TITLE: RING ROAD 3RD VUYEN SOUTH IC RAMP_B PROFILE
 DRAWING No. RR-RD-0602 SCALE V=1:500 S=1:2000

Rev No.



CHAINAGE	BP	0+26.277		0+100	0+116.277		0+200	0+221.151		0+300	0+311.151 0+315.383		0+400		0+500	0+501.964		0+600	0+615																				
FINISHED LEVEL	26.211	25.411	25.160	24.611	23.811	23.011	22.211	21.560	21.411	20.611	19.811	19.011	18.211	17.411	17.365	16.611	15.811	15.011	14.211	13.765	13.596	13.411	12.611	11.811	11.011	10.211	9.411	8.611	7.811	7.011	6.211	6.132	5.411	4.611	3.811	3.021	2.566	2.453	2.230
GROUND LEVEL	2.290	2.243	2.229	2.223	2.228	2.222	2.178	2.075	2.052	2.050	2.090	2.130	2.130	2.360	2.353	2.245	2.130	2.183	2.235	2.264	2.275	2.288	2.340	2.290	2.240	2.190	2.530	2.673	2.618	2.564	2.600	2.592	2.520	2.440	2.360	1.962	1.583	1.457	1.078
HORIZONTAL ALIGNMENT	$R=\infty$ CS L=26.277 $L=90$ SC A=90 $L=104.874$ IP = IP.1 R=90 $L=90$ SC A=90 $L=186.581$ IP = IP.2 R=527.250 $L=163.587$ CS $R=\infty$ CURVE - 1 VCL = 40																																						
VERTICAL ALIGNMENT	g=-4.000%																																						
SUPERELEVATION	0-0.000																																						

PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT		CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.	DRAWING TITLE: RING ROAD 3RD VUYEN SOUTH IC RAMP_C PROFILE				Rev No.
			DRAWING No.	RR-RD-0603	SCALE	V=1:500 S=1:2000	



CHAINAGE	BP	0+13.033	0+64.462	0+100	0+200	0+300	0+403.042	0+390	0+400	0+394.472																		
FINISHED LEVEL	17.711	17.353	17.136	16.411	15.611	15.433	14.811	14.011	13.211	12.411	11.611	10.811	10.011	9.211	8.411	7.611	6.811	6.011	5.211	4.411	4.289	3.611	2.850	2.566	2.464	2.359	2.230	
GROUND LEVEL	2.460	2.532	2.570	2.528	2.485	2.476	2.443	2.400	2.560	1.980	0.140	-0.687	-0.683	0.150	2.290	2.270	2.250	2.260	2.270	2.280	2.271	2.220	2.160	2.130	2.117	2.100	2.208	
HORIZONTAL ALIGNMENT	R=∞ CS L=13.033		L=51.429 SC A=70		IP = IP.1 L=278.581 R=70										SC L=51.429 A=70		CS R=∞ L=60.885											
VERTICAL ALIGNMENT	CURVE - 1 VCL = 40		g = -4.000%										CURVE - 2 VCL = 40		g = -0.905%													
SUPERELEVATION	0-0.000																											

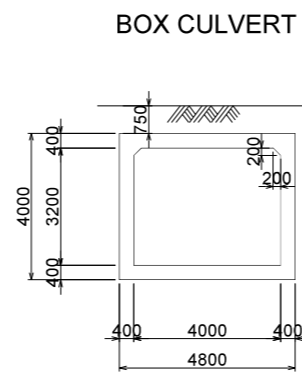
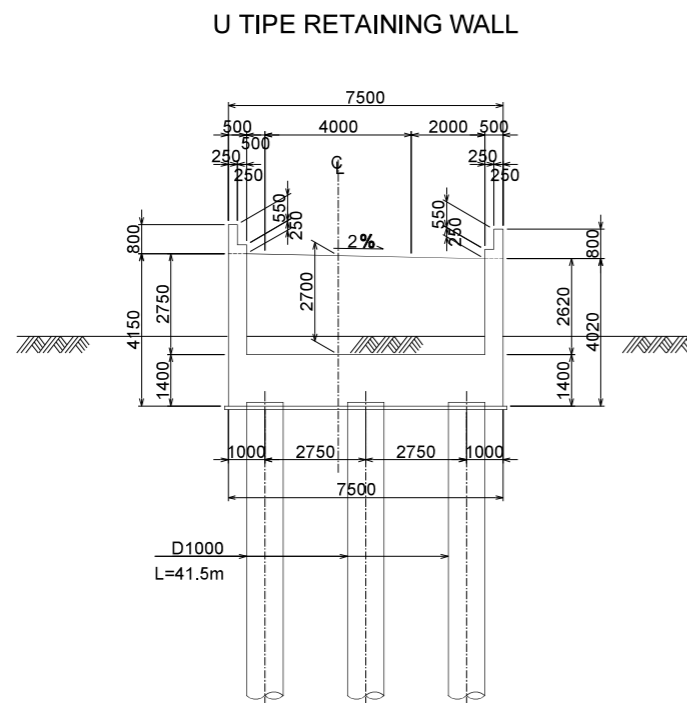
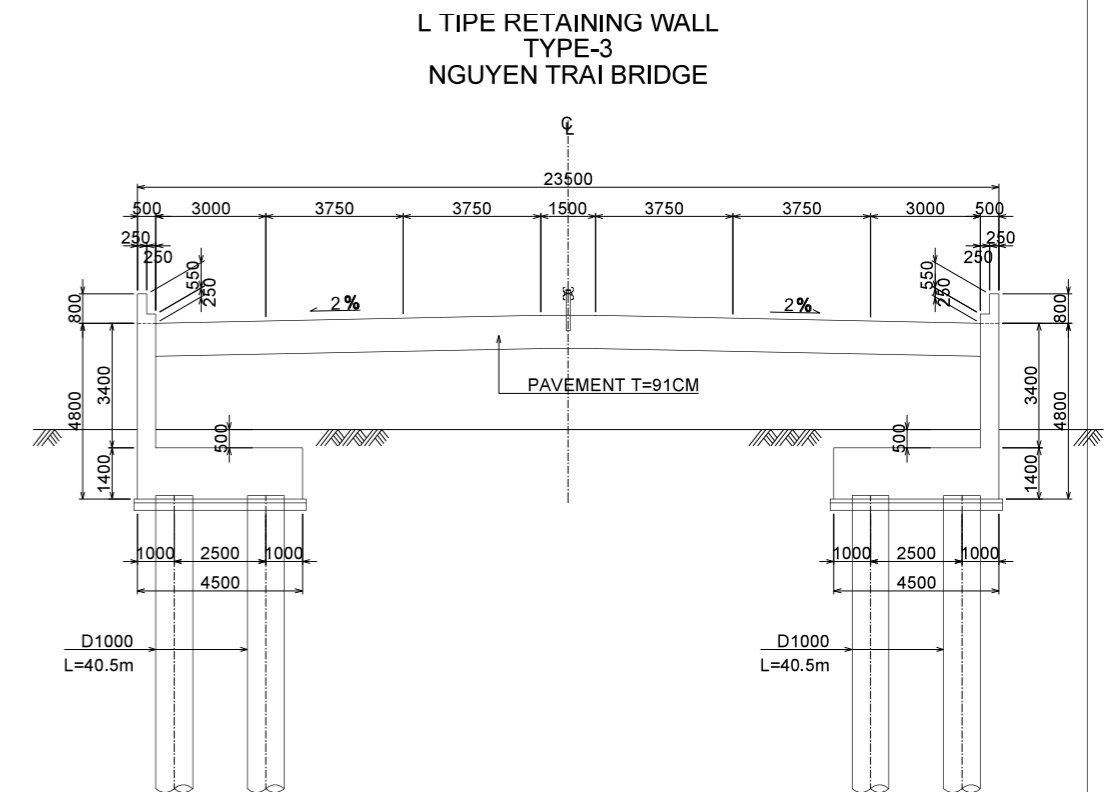
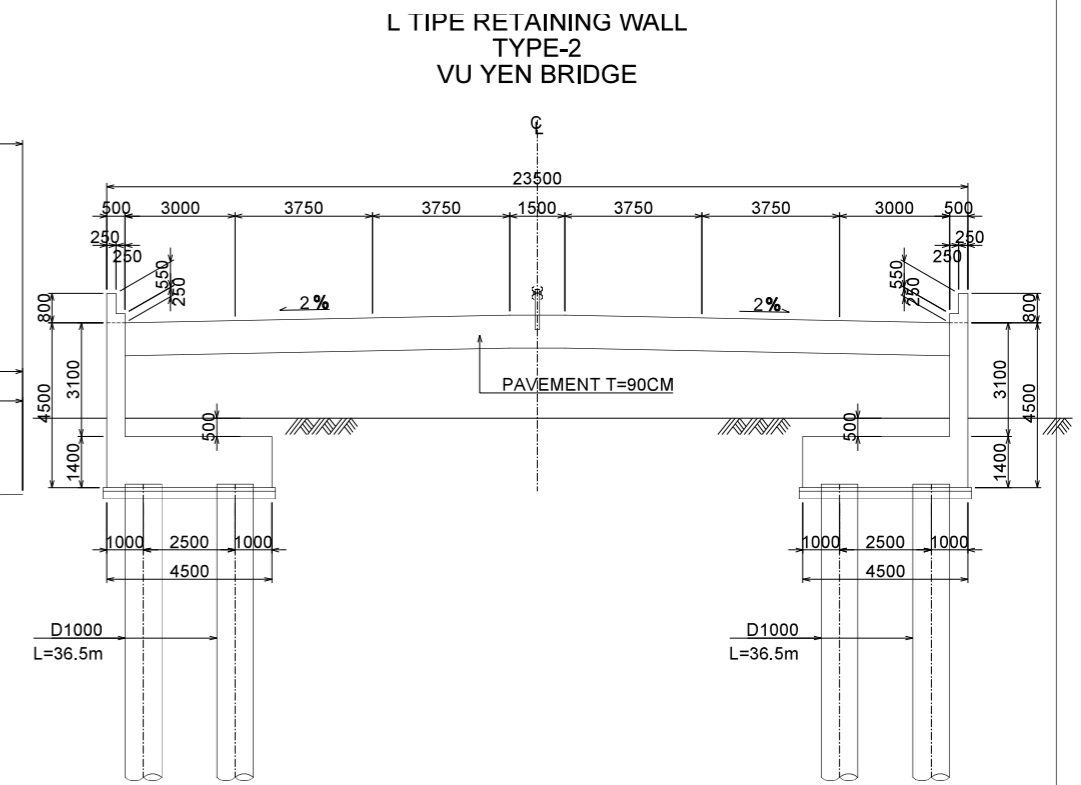
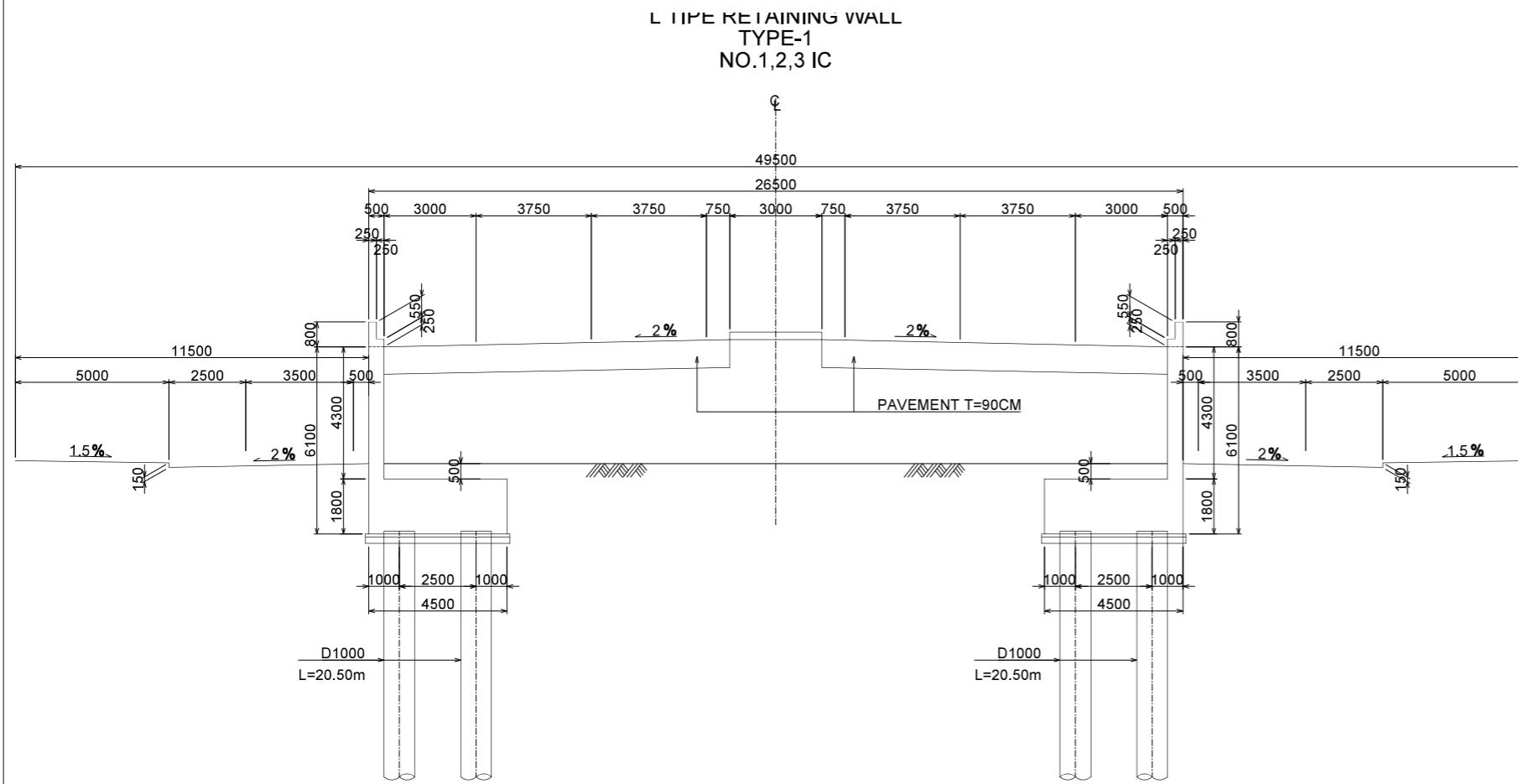
PROJECT: PREPARATORY SURVEY ON HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 CONSULTANTS: JOINT VENTURE OF CHODAI CO.,LTD. ORIENTAL CONSULTANTS GLOBAL CO.,LTD. ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD VUYEN SOUTH IC RAMP_D PROFILE
 DRAWING No. RR-RD-0604 SCALE V=1:500 S=1:2000

Rev No.



PROJECT: PREPARATORY SURVEY
ON
HAI PHONG ARTERIAL ROAD CONSTRUCTION PROJECT



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CONSULTANTS: JOINT VENTURE OF
CHODAI CO.,LTD.
ORIENTAL CONSULTANTS GLOBAL CO.,LTD.
ALMEC VPI CO.,LTD.

DRAWING TITLE: RING ROAD 3RD
RETAINING WALL

DRAWING No.	RR-RD-0701	SCALE	S=1:200
-------------	------------	-------	---------

Rev No.