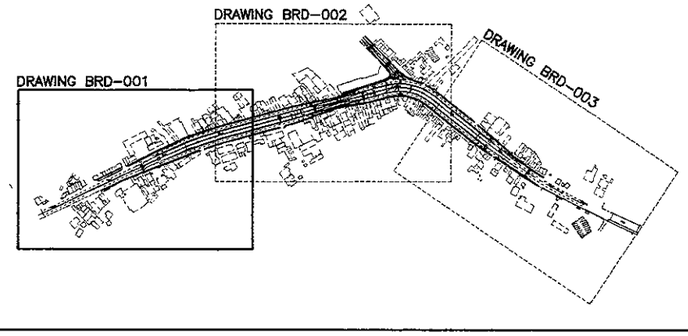
JAPAN INTERNATIONAL
COOPERATION AGENCY

DIRECTORATE GENERAL OF HIGHWAY
MINISTRY OF PUBLIC WORKS
REPUBLIC OF INDONESIA

ROADS

KATAHIRA & ENGINEERS INTERNATIONAL

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS		PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 1000 FULL SIZE A3	DRAWING TITLE : ROADWAY PLAN (FLYOVER) 1 OF 3	DRAWING NO : BRD-001 SHEET NO : 01 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY	ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	Sign Date		



KEY PLAN

1 / - ROADWAY PLAN (FLYOVER)
SCALE 1:1000

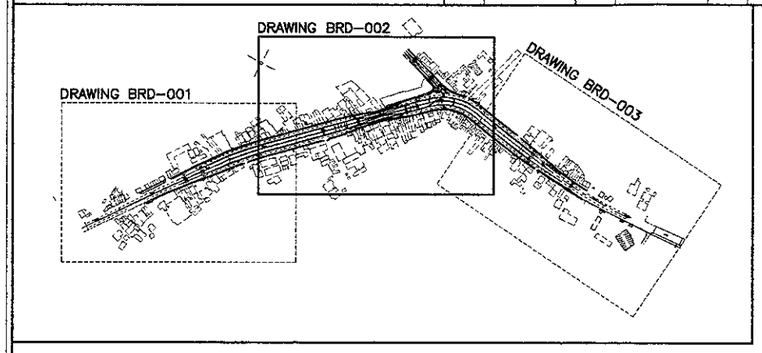
DATA	PI NO.-1	UNITS
PI STA.	STA. 0 + 255.558	
N	9315197.300	m
E	661598.698	m
V	40	km/h
Δ	8-37-21	° ' "
θs	–	° ' "
R	600	m
A	–	m
Ts	45.232	m
Es	1.703	m
Tc	–	m
Ls	–	m
Lc	90.294	m
L	90.294	m
e	2	%

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. BRD-019 TO BRD-024
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. BRD-012 TO BRD-016

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI	
	Sign		Sign		Sign		
	Date		Date		Date		

REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	APPROVED BY	Ir. HERRY VAZA M,Eng.Sc	Sign
		NIP. : 110038400	Date

PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 1000 FULL SIZE A3	ROADWAY PLAN (FLYOVER) 2 OF 3	BRD-002 SHEET NO : 02 / 56



KEY PLAN

2 - ROADWAY PLAN (FLYOVER)
SCALE 1:1000

DATA	PI NO. - 2	UNITS
PI STA.	STA. 0 + 621.898	
N	9315447.923	m
E	661866.127	m
V	40	km/h
Δ	54–25–00	° ' "
θs	16–32–49	° ' "
R	75	m
A	57	m
Ts	14.119	m
Es	10.500	m
Tc	–	m
Ls	43.320	m
Lc	27.911	m
L	114.551	m
e	5.7	%

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. BRD–019 TO BRD–024
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. BRD–012 TO BRD–016

JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

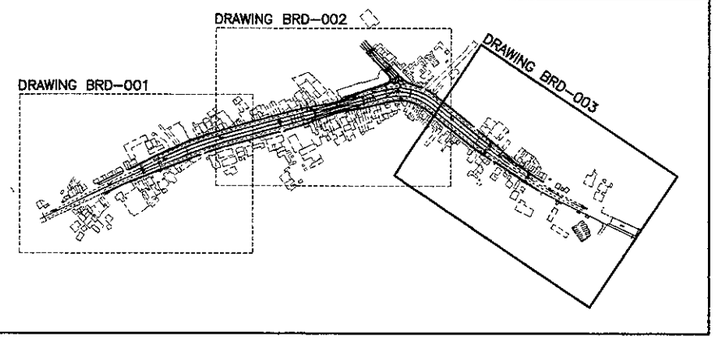
APPROVED BY | Ir. HERRY VAZA M,Eng.Sc | Sign | | NIP. : 110038400 | Date |

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE : 1 : 1000
FULL SIZE A3

DRAWING TITLE :
ROADWAY PLAN (FLYOVER) 3 OF 3

DRAWING NO : BRD-003
SHEET NO : 03 / 56



KEY PLAN

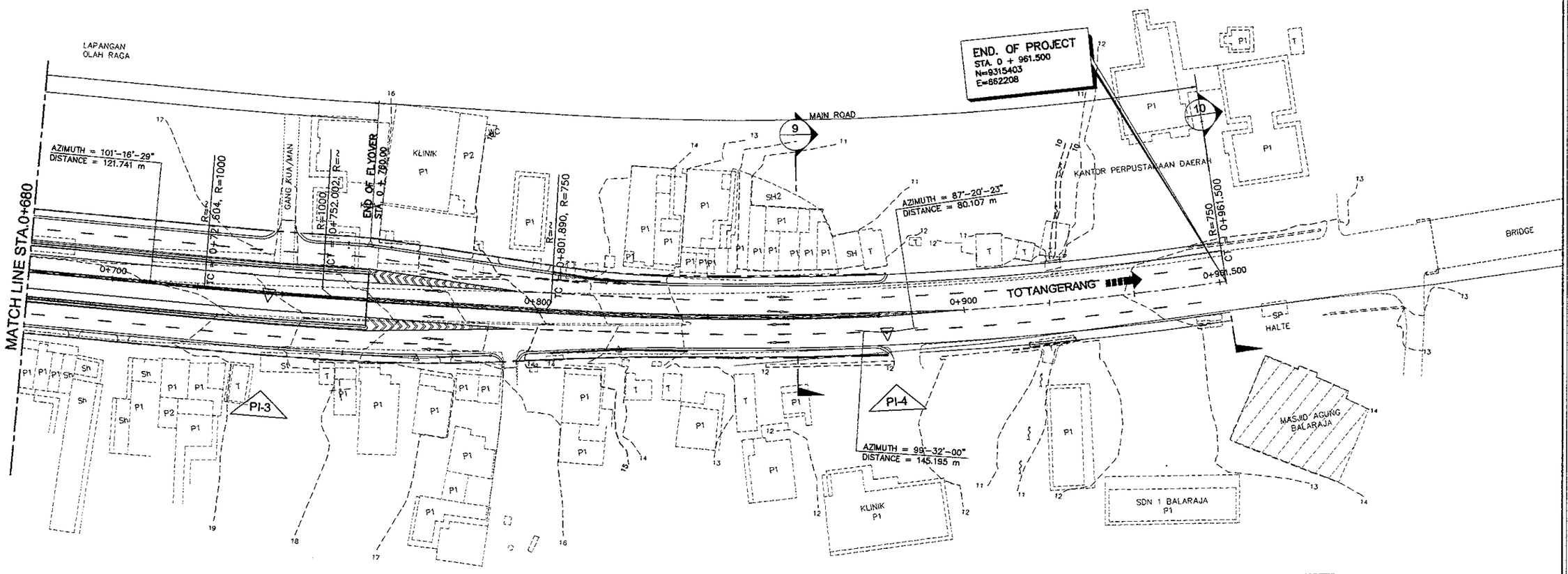
DATA	PI NO.-3	UNITS
Pi STA.	STA. 0 + 736.804	
N	9315424.121	m
E	661985.514	m
V	40	km/h
Δ	1-44-30	° ' "
θs	-	° ' "
R	1000	m
A	-	m
Ts	15.200	m
Es	0.116	m
Tc	-	m
Ls	-	m
Lc	30.398	m
L	30.398	m
e	NORMAL = 2	%

DATA	PI NO.-4	UNITS
Pi STA.	STA. 0 + 881.998	
N	9315400.074	m
E	662128.709	m
V	40	km/h
Δ	12-11-36	° ' "
θs	-	° ' "
R	750	m
A	-	m
Ts	80.107	m
Es	4.266	m
Tc	-	m
Ls	-	m
Lc	159.609	m
L	159.609	m
e	NORMAL = 2	%

N

E 662200
N 9315500

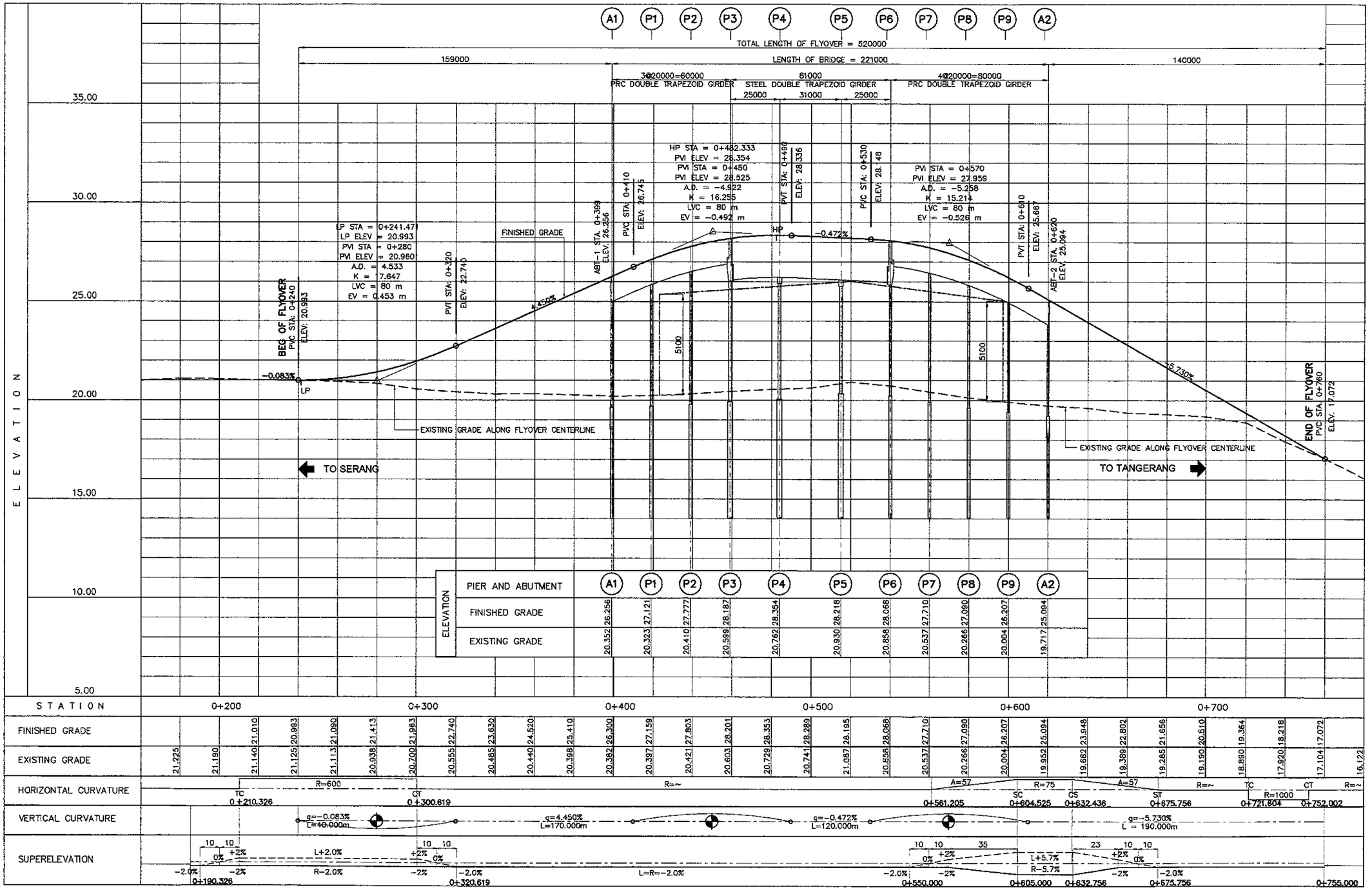
E 662000
N 9315500



3 - ROADWAY PLAN (FLYOVER)
SCALE 1:1000

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. BRD-019 TO BRD-024
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. BRD-012 TO BRD-016

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : H=1 : 2000 V=1 : 200 FULL SIZE A3	DRAWING TITLE : PROFILE OF FLYOVER	DRAWING NO : BRD-004 SHEET NO : 04 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY Ir. HERRY VAZA M,Eng.Sc Sign				
	Date		Date		Date		NIP. : 110038400 Date				



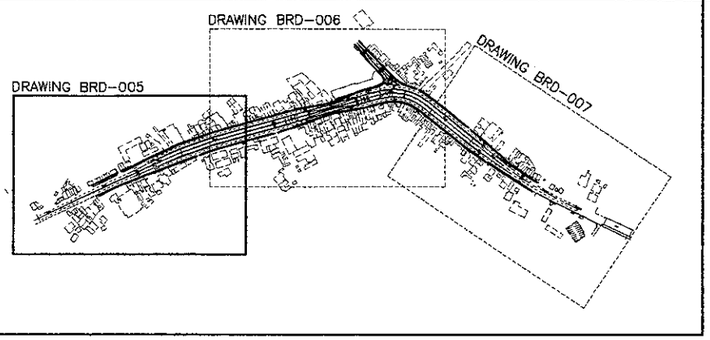
1 / - PROFILE OF FLYOVER
SCALE H = 1 : 2000 V = 1 : 200

NOTE:

EXISTING GRADE ELEVATIONS ARE TAKEN FROM CENTERLINE OF FLYOVER.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI	
	Sign		Sign		Sign		APPROVED BY: Ir. HERRY VAZA M,Eng.Sc (NIP. : 110038400) Sign Date
	Date		Date		Date		

PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 1000 FULL SIZE A3	ROADWAY PLAN (AT-GRADE) 1 OF 3	BRD-005 SHEET NO : 05 / 56



KEY PLAN

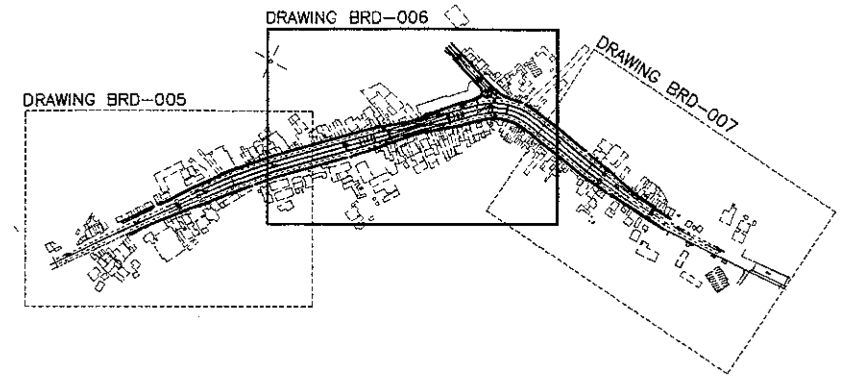
1 / - ROADWAY PLAN (AT GRADE)
SCALE 1:1000

DATA	PI NO. - 1	UNITS
PI STA.	STA. 0 + 255.558	
N	9315197.300	m
E	661598.698	m
V	40	km/h
Δ	8–37–21	° ' "
θs	–	° ' "
R	600	m
A	–	m
Ts	45.232	m
Es	1.703	m
Tc	–	m
Ls	–	m
Lc	90.294	m
L	90.294	m
e	2	%

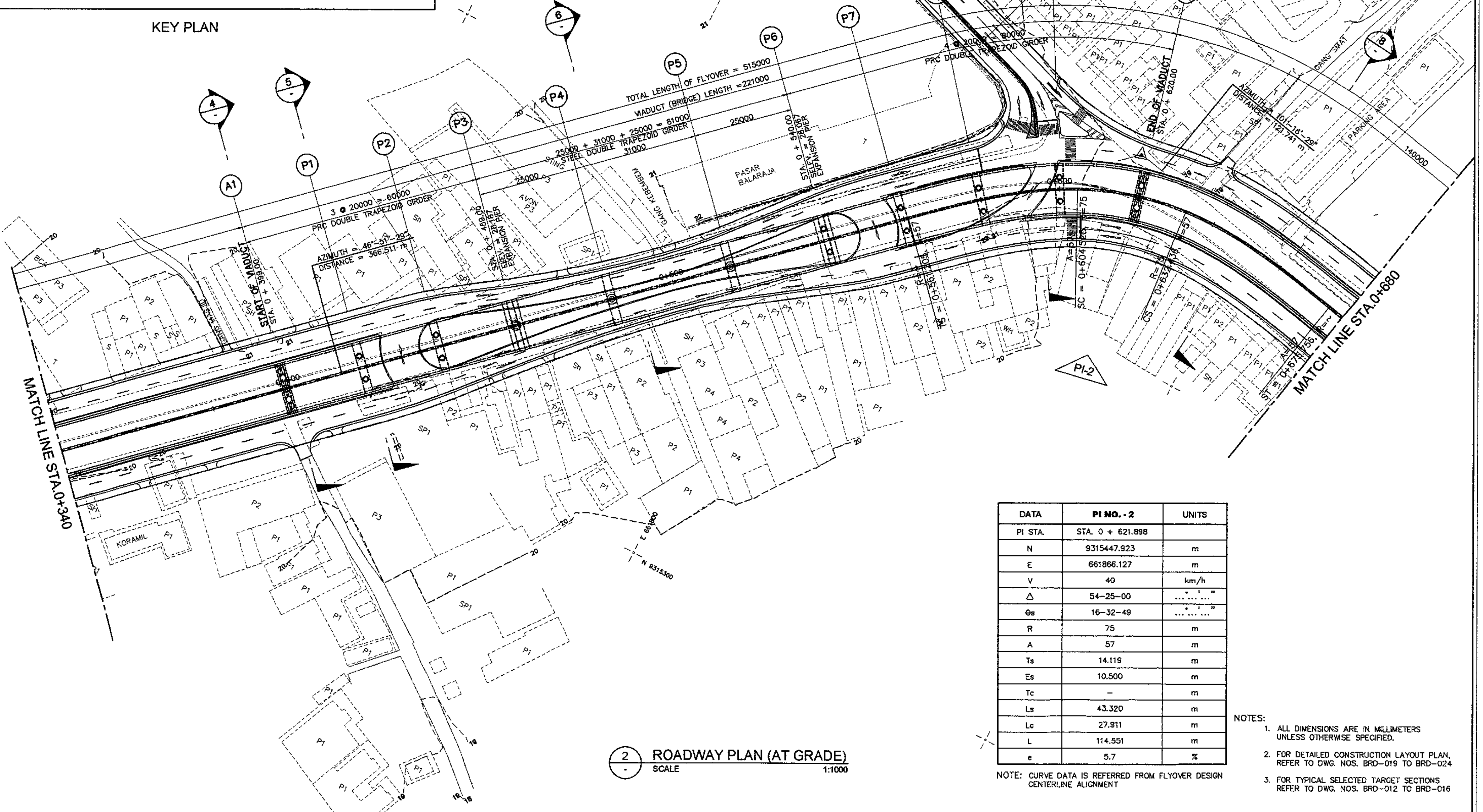
NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. BRD–019 TO BRD–024
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. BRD–012 TO BRD–016

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY Name: R. UENO Sign: Date:	CHECKED BY Name: T. OKUMURA Sign: Date:	SUBMITTED BY Name: M. KIUCHI Sign: Date:	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign: Date:	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 1000 FULL SIZE A3	DRAWING TITLE : ROADWAY PLAN (AT-GRADE) 2 OF 3
							DRAWING NO : BRD-006 SHEET NO : 06 / 56



KEY PLAN



DATA	PI NO. - 2	UNITS
PI STA.	STA. 0 + 621.898	
N	9315447.923	m
E	661866.127	m
V	40	km/h
Δ	54–25–00	° ' "
θs	16–32–49	° ' "
R	75	m
A	57	m
Ts	14.119	m
Es	10.500	m
Tc	–	m
Ls	43.320	m
Lc	27.911	m
L	114.551	m
e	5.7	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. BRD-019 TO BRD-024
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. BRD-012 TO BRD-016

2 ROADWAY PLAN (AT GRADE)
SCALE 1:1000

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
KEI KATAHIRA & ENGINEERS INTERNATIONAL

	DESIGNED BY	CHECKED BY	SUBMITTED BY
Name	R. UENO	T. OKUMURA	M. KIUCHI
Sign			
Date			

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

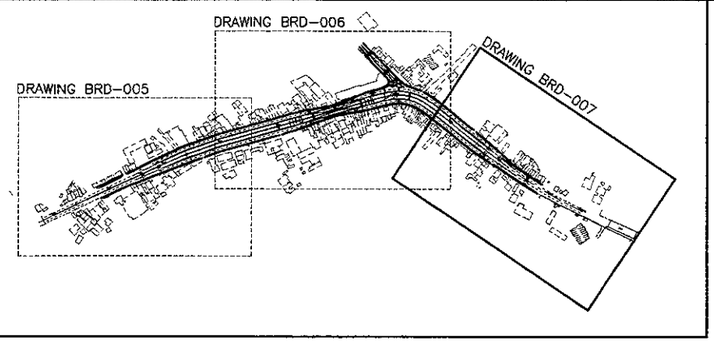
APPROVED BY | Ir. HERRY VAZA M,Eng.Sc | Sign
NIP. : 110038400 | Date

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE : 1 : 1000
FULL SIZE A3

DRAWING TITLE :
ROADWAY PLAN (AT-GRADE)
3 OF 3

DRAWING NO : BRD-007
SHEET NO : 07 / 56



KEY PLAN

DATA	PI NO. - 3	UNITS
PI STA.	STA. 0 + 736.804	
N	9315424.121	m
E	661985.514	m
V	40	km/h
Δ	1–44–30	° ' "
Θs	–	° ' "
R	1000	m
A	–	m
Ts	15.200	m
Es	0.116	m
Tc	–	m
Ls	–	m
Lc	30.398	m
L	30.398	m
e	NORMAL = 2	%

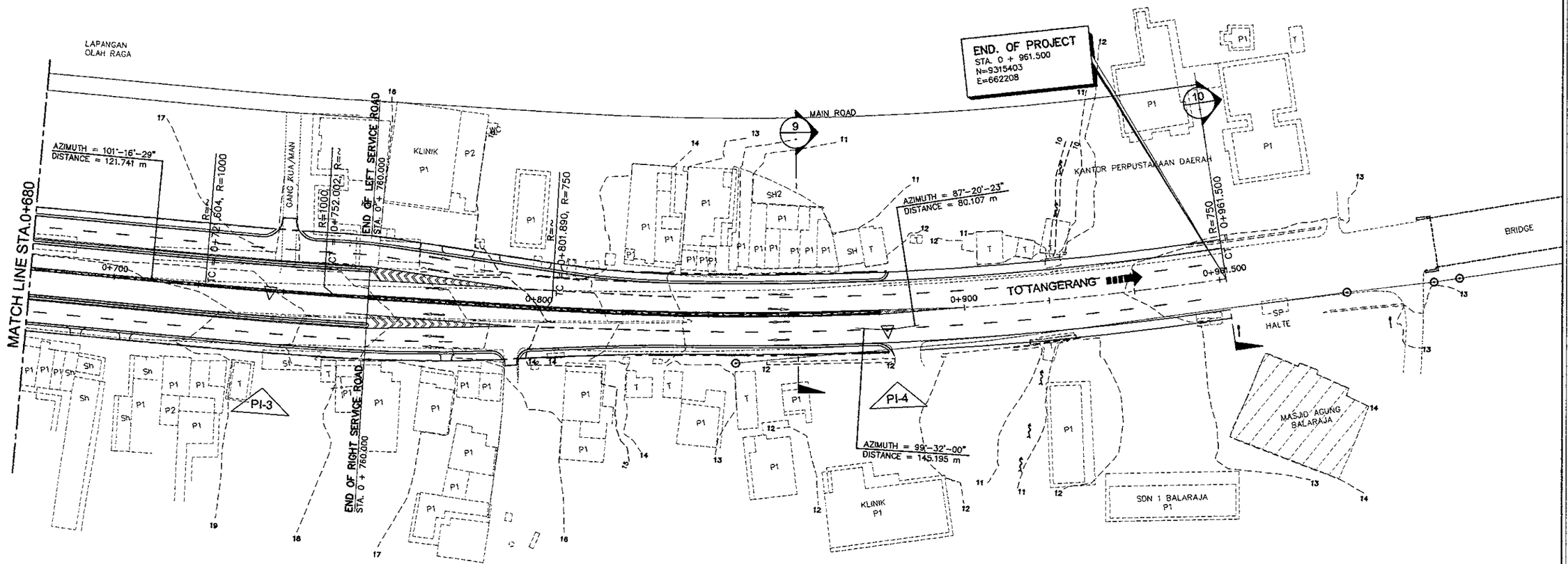
DATA	PI NO. - 4	UNITS
PI STA.	STA. 0 + 881.998	
N	9315400.074	m
E	662128.709	m
V	40	km/h
Δ	12–11–36	° ' "
Θs	–	° ' "
R	750	m
A	–	m
Ts	80.107	m
Es	4.266	m
Tc	–	m
Ls	–	m
Lc	159.609	m
L	159.609	m
e	NORMAL = 2	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

N

E 662200
N 9315500

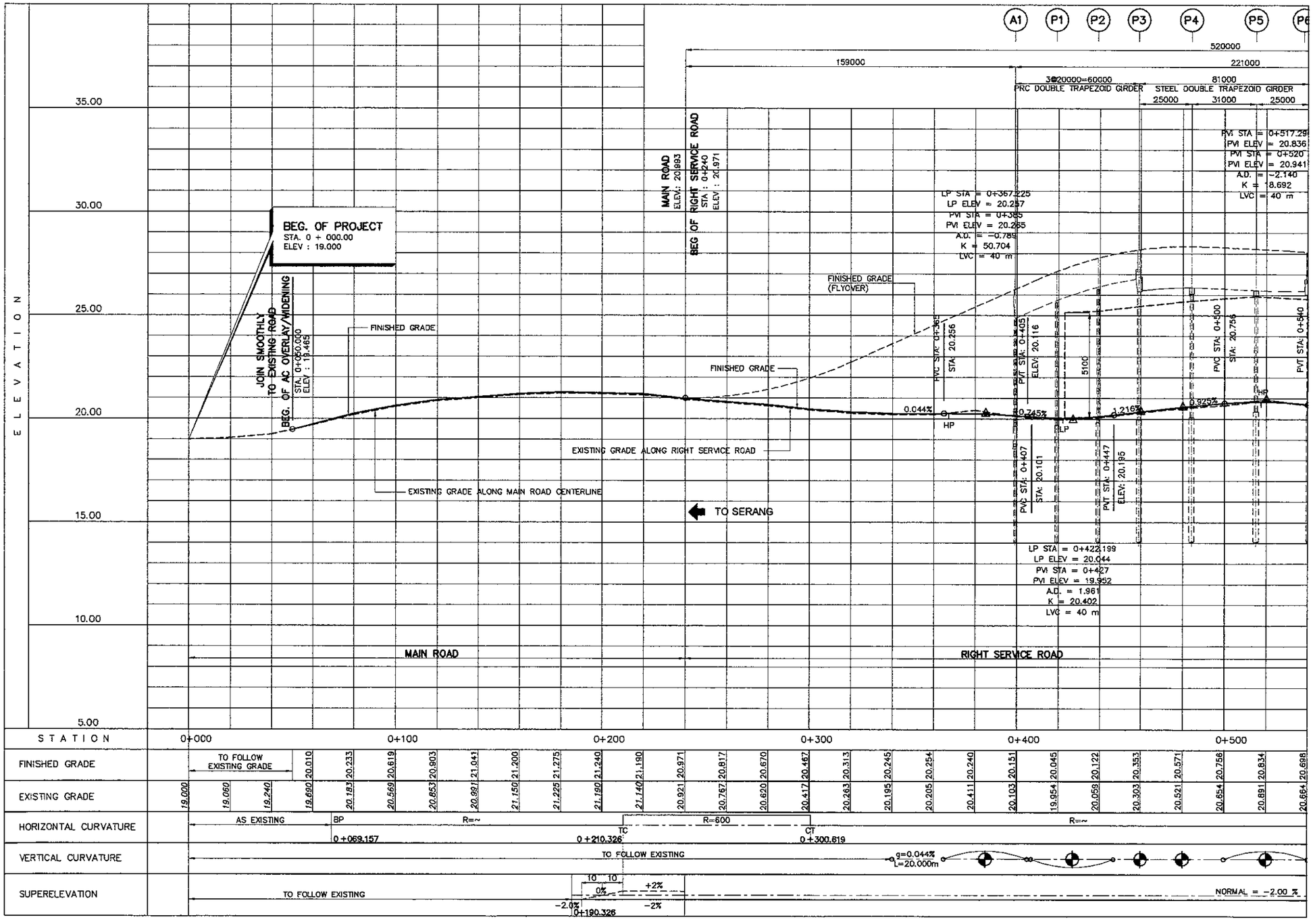
E 662000
N 9315500



3 / - ROADWAY PLAN (AT GRADE)
SCALE 1:1000

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. BRD–019 TO BRD–024
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. BRD–012 TO BRD–016

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	H=1 : 2000 V=1 : 200 FULL SIZE A3	PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD 1 OF 2	BRD-008
	Sign	Sign	Sign	APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO :
	Date	Date	Date	Sign / Date				08 / 56



1 / - PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD (1 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

NOTES:

1. EXISTING GRADE ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

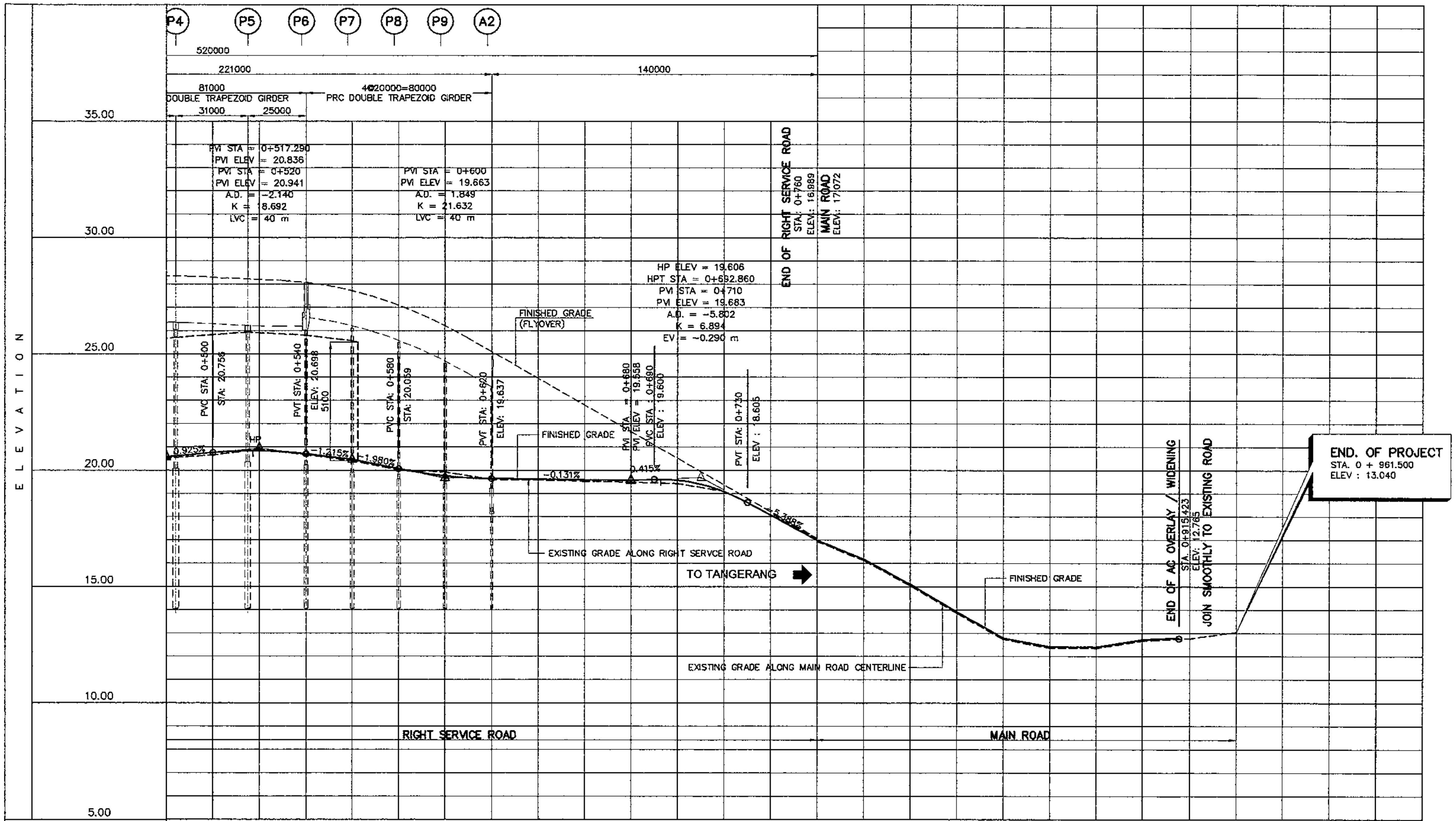
APPROVED BY	Ir. HERRY VAZA M,Eng.Sc	Sign	
	NIP. : 110038400	Date	

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE : H=1 : 2000 V=1 : 200
FULL SIZE A3

DRAWING TITLE :
PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD 2 OF 2

DRAWING NO : BRD-009
SHEET NO : 09 / 56



STATION	0+500					0+600					0+700					0+800					0+900		1+000
FINISHED GRADE	20.756	20.834	20.698	20.455	20.059	19.755	19.637	19.611	19.584	19.558	19.569	19.071	18.066	16.989	16.172	15.088	13.904	12.784	12.410	12.402	12.720	TO FOLLOW THE EXISTING GRADE	
EXISTING GRADE	20.654	20.891	20.664	20.405	20.009	19.919	19.595	19.572	19.521	19.485	19.422	19.094	18.016	16.939	16.122	15.038	13.854	12.734	12.360	12.352	12.670	12.774	13.040

HORIZONTAL CURVATURE: A=57, 0+561.205, SC 0+604.525, R=75, CS 0+632.436, A=57, ST 0+675.756, R=~, TC 0+721.604, R=1000, CT 0+752.002, R=~, TC 0+801.890, R=750, CT 0+961.500

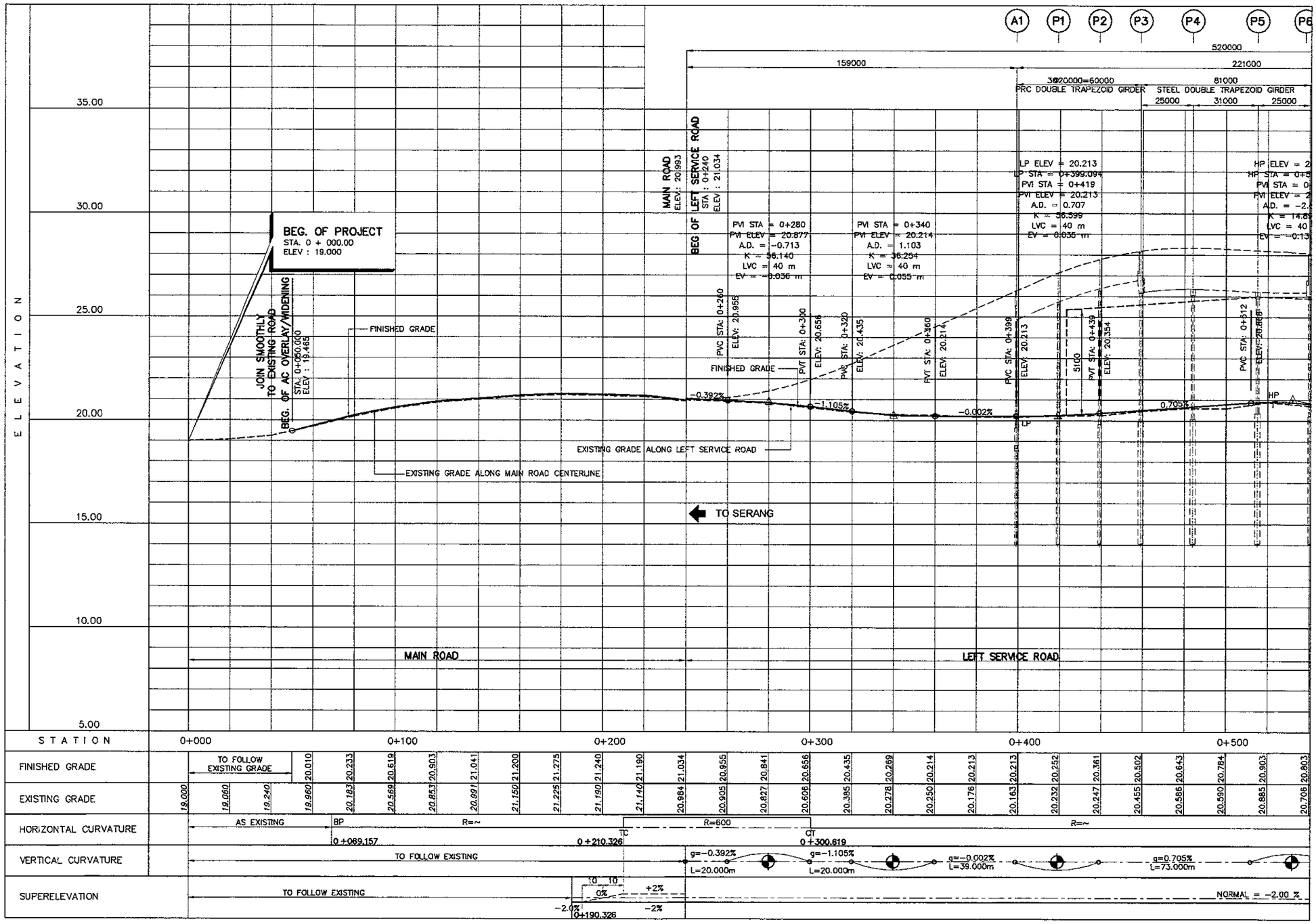
VERTICAL CURVATURE: g=-0.131% L=70.000m; g=-5.060% L=30.000m; TO FOLLOW EXISTING

SUPERELEVATION: NORMAL = -2.00 %; TO FOLLOW EXISTING

(2) PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD (2 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

NOTES:
1. EXISTING GRADE ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.

JAPAN INTERNATIONAL COOPERATION AGENCY / KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI	APPROVED BY: Ir. HERRY VAZA M.Eng.Sc NIP. : 110038400	DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	H=1 : 2000 V=1 : 200 FULL SIZE A3	PROFILE OF MAIN ROAD & LEFT SERVICE ROAD 1 OF 2	BRD-010 SHEET NO : 10 / 56
	Sign	Sign	Sign	Sign / Date				
	Date	Date	Date					

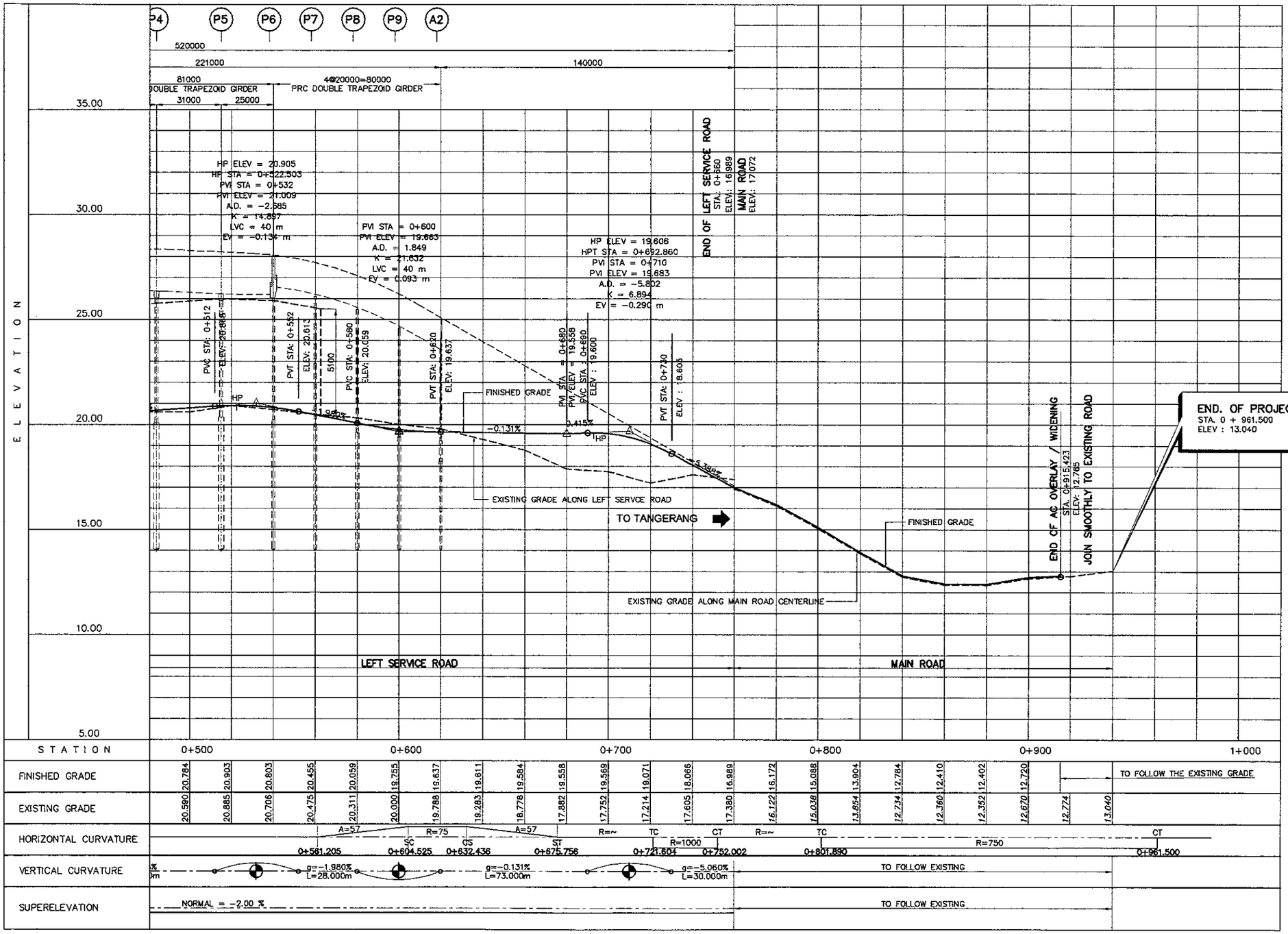


1 / - PROFILE OF MAIN ROAD & LEFT SERVICE ROAD (1 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

NOTES:

1. EXISTING GRADE ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : H=1 : 2000 V=1 : 200 FULL SIZE A3	DRAWING TITLE : PROFILE OF MAIN ROAD & LEFT SERVICE ROAD 2 OF 2	DRAWING NO : BRD-011 SHEET NO : 11 / 56
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI					
	Sign	Sign	Sign	APPROVED BY Ir. HERRY VAZA M,Eng.Sc Sign				
	Date	Date	Date	NIP. : 110038400 Date				



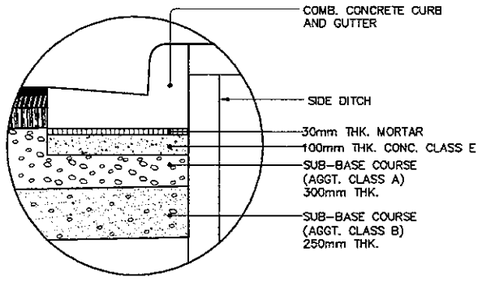
STATION	0+500					0+600						0+700						0+800						0+900						1+000
FINISHED GRADE	20.784	20.903	20.803	20.455	20.059	19.755	19.637	19.611	19.584	19.558	19.569	19.071	18.066	16.989	16.172	15.088	13.904	12.784	12.410	12.402	12.720	TO FOLLOW THE EXISTING GRADE							
EXISTING GRADE	20.580	20.885	20.706	20.475	20.311	20.000	19.788	19.283	19.778	17.882	17.752	17.214	17.605	17.380	16.122	15.038	13.654	12.734	12.360	12.352	12.670	12.774	13.040						
HORIZONTAL CURVATURE	A=57			R=75			A=57			R=~		TC	CT	R=~	TC	R=1000			R=750					CT					
	0+561.205			SC		GS			ST			0+721.604	0+752.002		0+801.890									0+961.500					
VERTICAL CURVATURE	g=-1.980% L=28.000m					g=-0.131% L=73.000m						g=-5.060% L=30.000m			TO FOLLOW EXISTING														
SUPERELEVATION	NORMAL = -2.00 %														TO FOLLOW EXISTING														

1 / - PROFILE OF MAIN ROAD & LEFT SERVICE ROAD (2 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

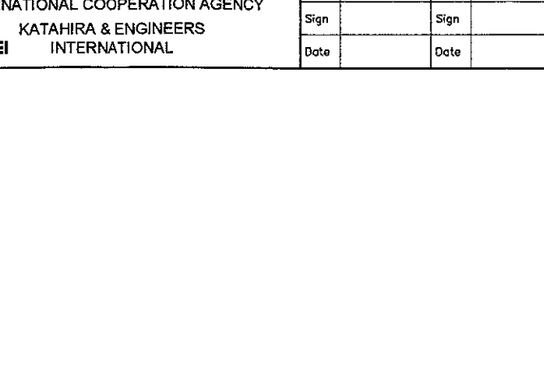
NOTES:

1. EXISTING GRADE ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.

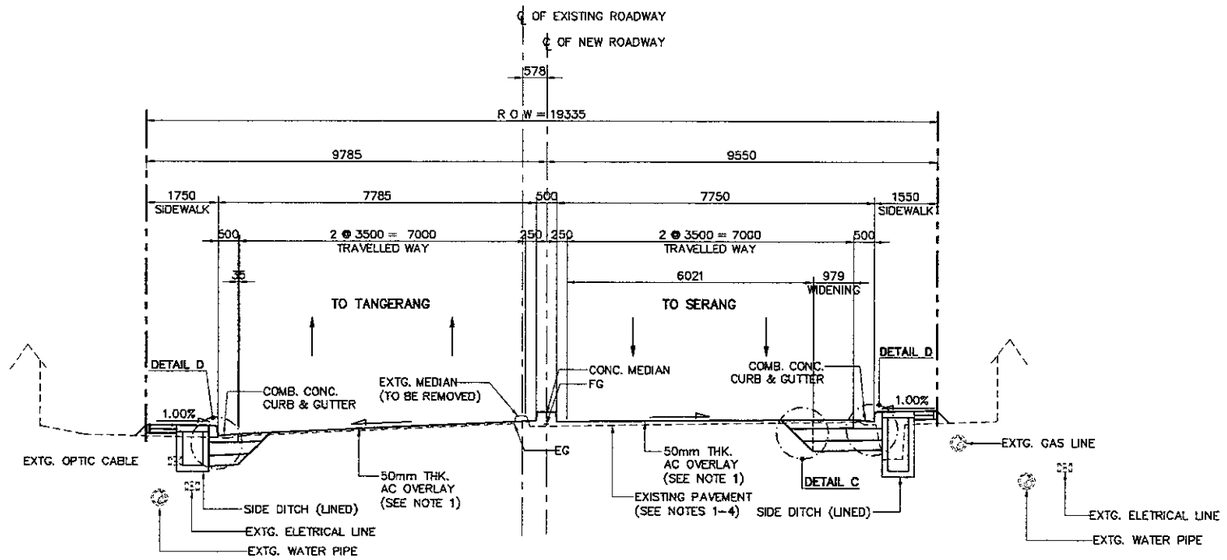
JICA JAPAN INTERNATIONAL COOPERATION AGENCY KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY: Name R. UENO; Sign; Date	CHECKED BY: Name T. OKUMURA; Sign; Date	SUBMITTED BY: Name M. KIUCHI; Sign; Date	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS APPROVED BY Ir. HERRY VAZA M,Eng.Sc; NIP. : 110038400; Sign; Date	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 150 FULL SIZE A3	DRAWING TITLE : TYPICAL ROAD CROSS SECTION (1 OF 5)	DRAWING NO : BRD-012 SHEET NO : 12 / 56



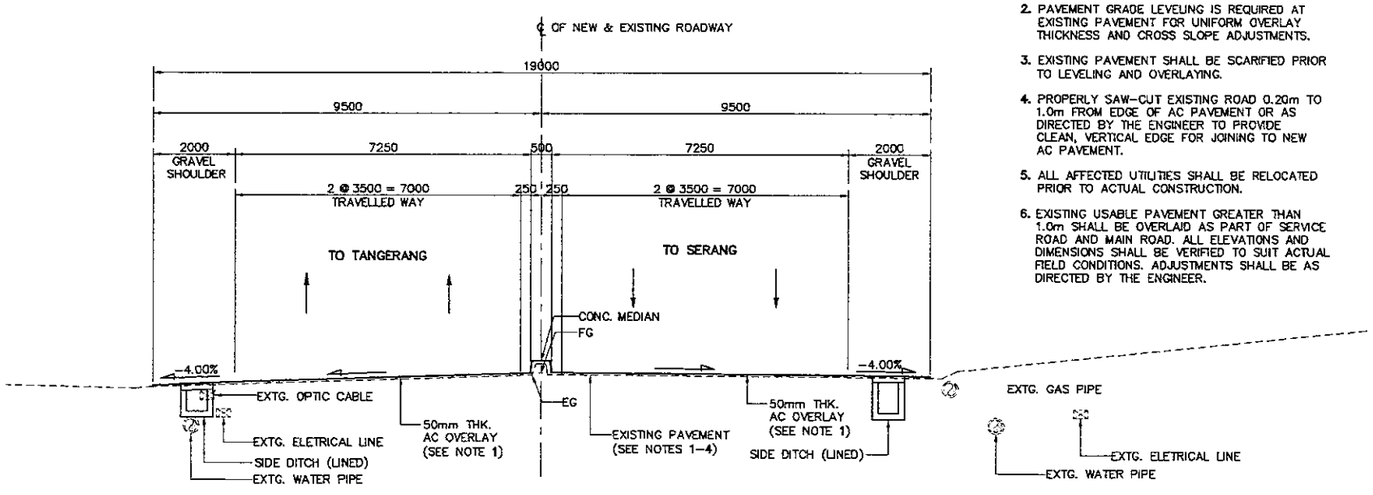
DETAIL D
SCALE 1:30



DETAIL C
SCALE 1:30



2 / - SECTION AT START OF ROAD WIDENING (STA. 0+090.000)
SCALE 1:150

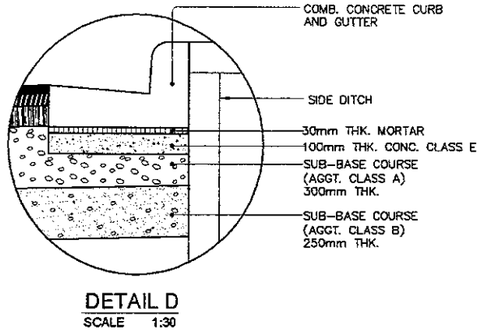


1 / - SECTION NEAR BEGINNING OF PROJECT (STA. 0+060.000)
SCALE 1:150

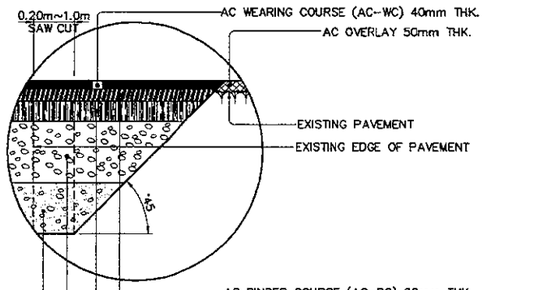
NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

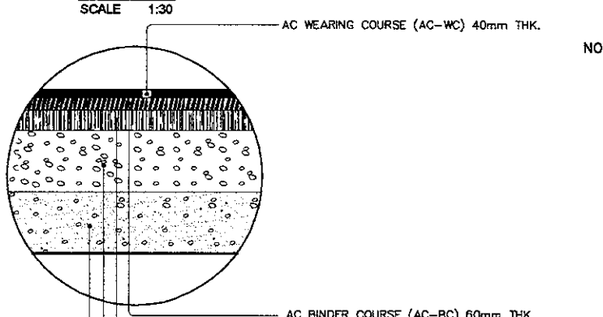
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 150 FULL SIZE A3	DRAWING TITLE : TYPICAL ROAD CROSS SECTION (2 OF 5)	DRAWING NO : BRD-013 SHEET NO : 13 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				



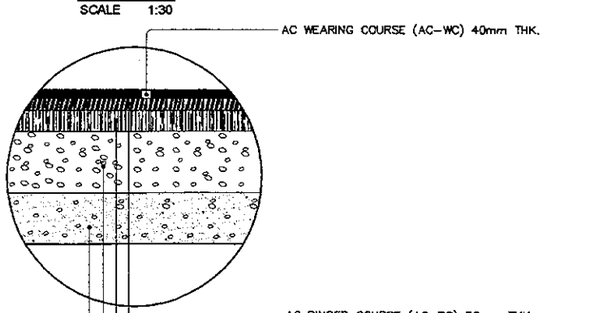
DETAIL D
SCALE 1:30



DETAIL C
SCALE 1:30



DETAIL B
SCALE 1:30



DETAIL A
SCALE 1:30

NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
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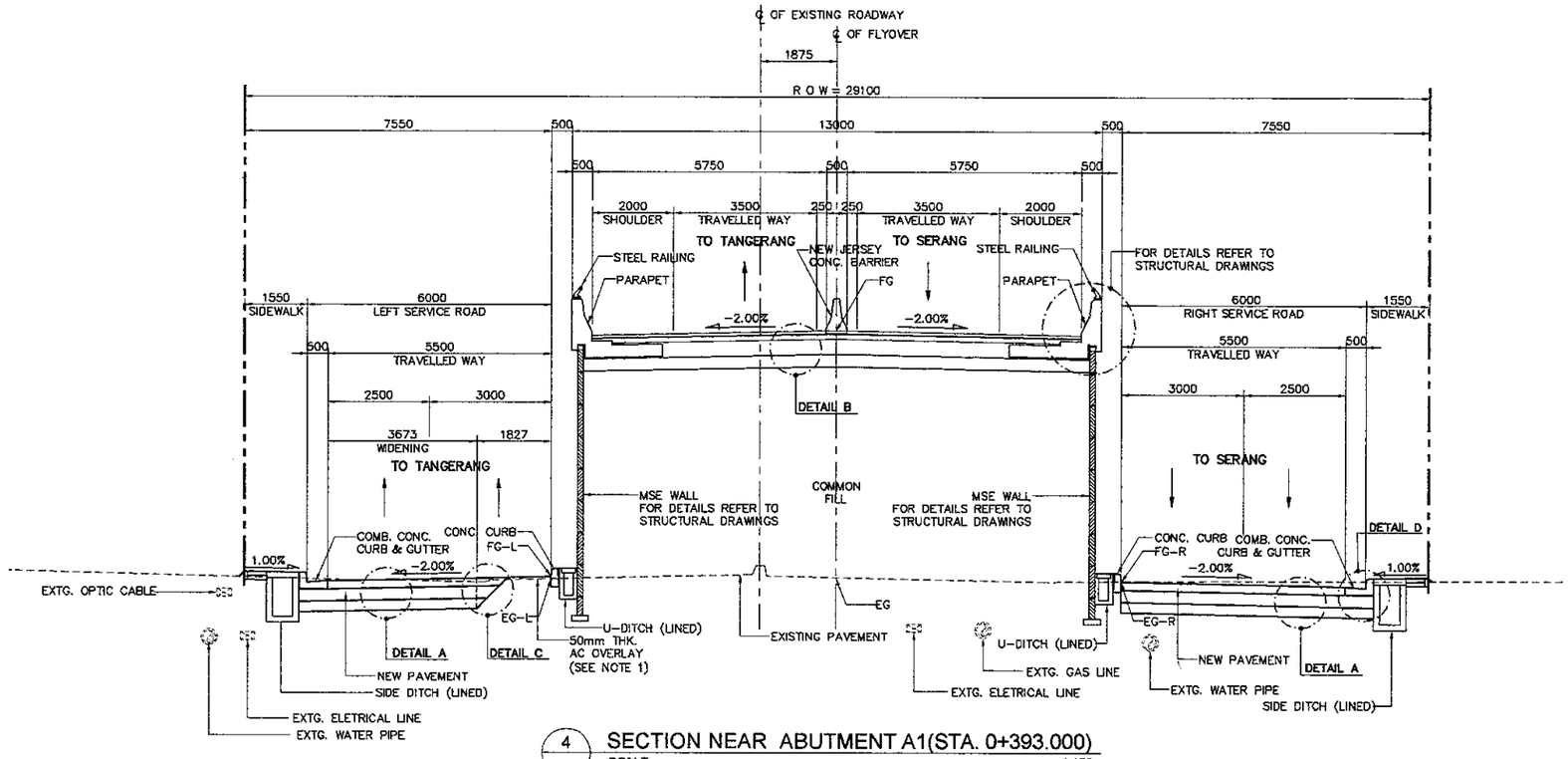
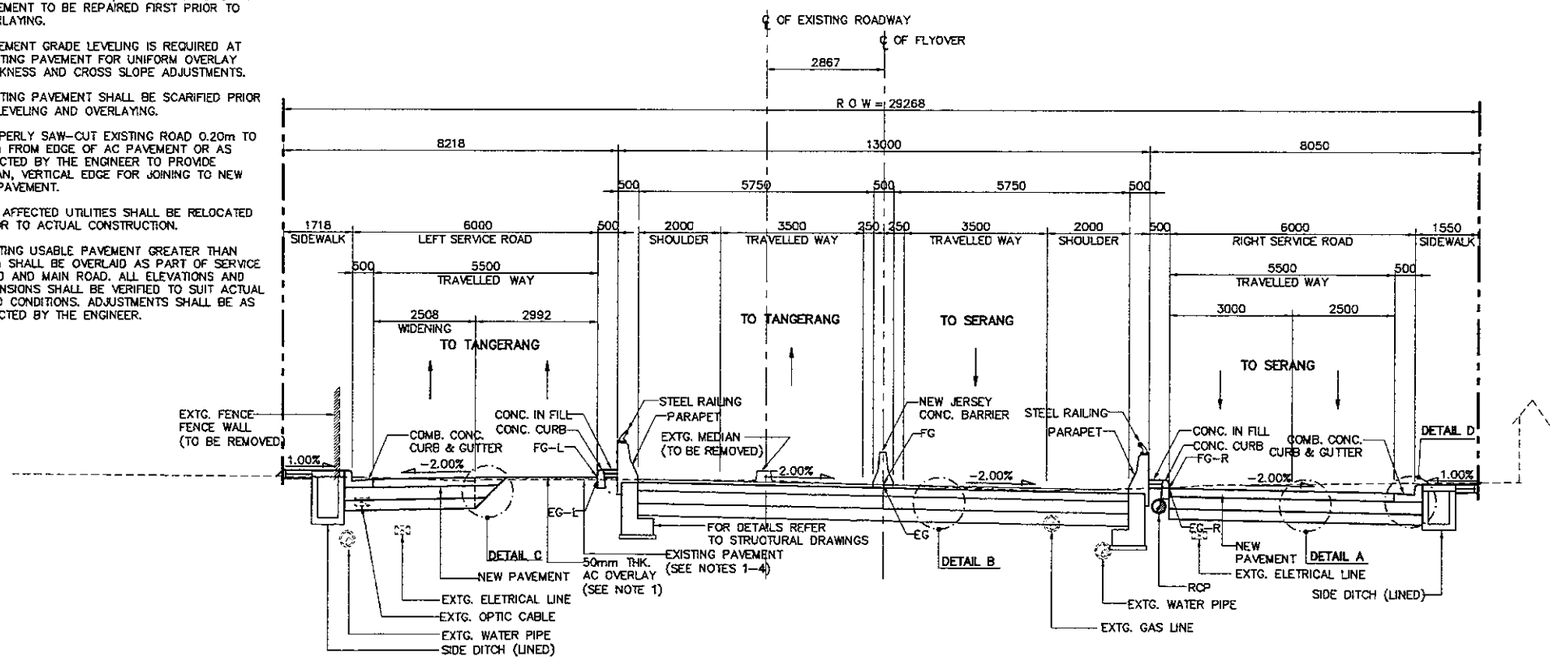
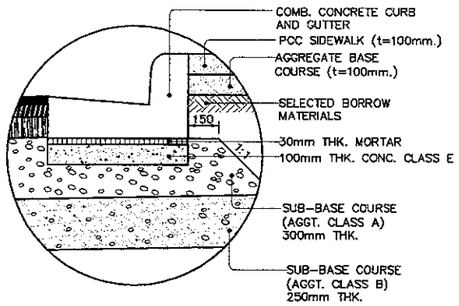


4 - SECTION NEAR ABUTMENT A1(STA. 0+393.000)
SCALE 1:150

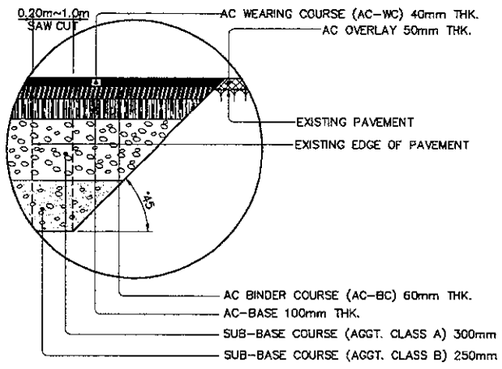


3 - SECTION AT BEG. OF FLYOVER APPROACH (STA. 0+240.000)
SCALE 1:150

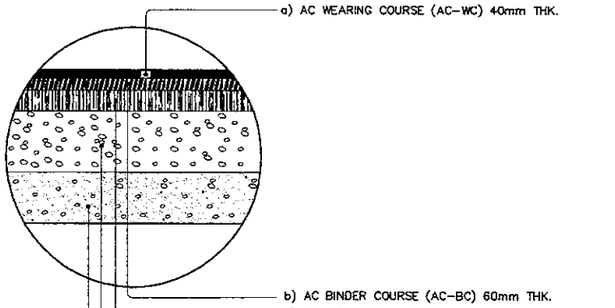
JICA JAPAN INTERNATIONAL COOPERATION AGENCY KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 150 FULL SIZE A3	TYPICAL ROAD CROSS SECTION (3 OF 5)	BRD-014 SHEET NO : 14 / 56
	Sign		Sign		Sign		APPROVED BY Ir. HERRY VAZA M.Eng.Sc NIP. : 110038400				
	Date		Date		Date		Sign / Date				



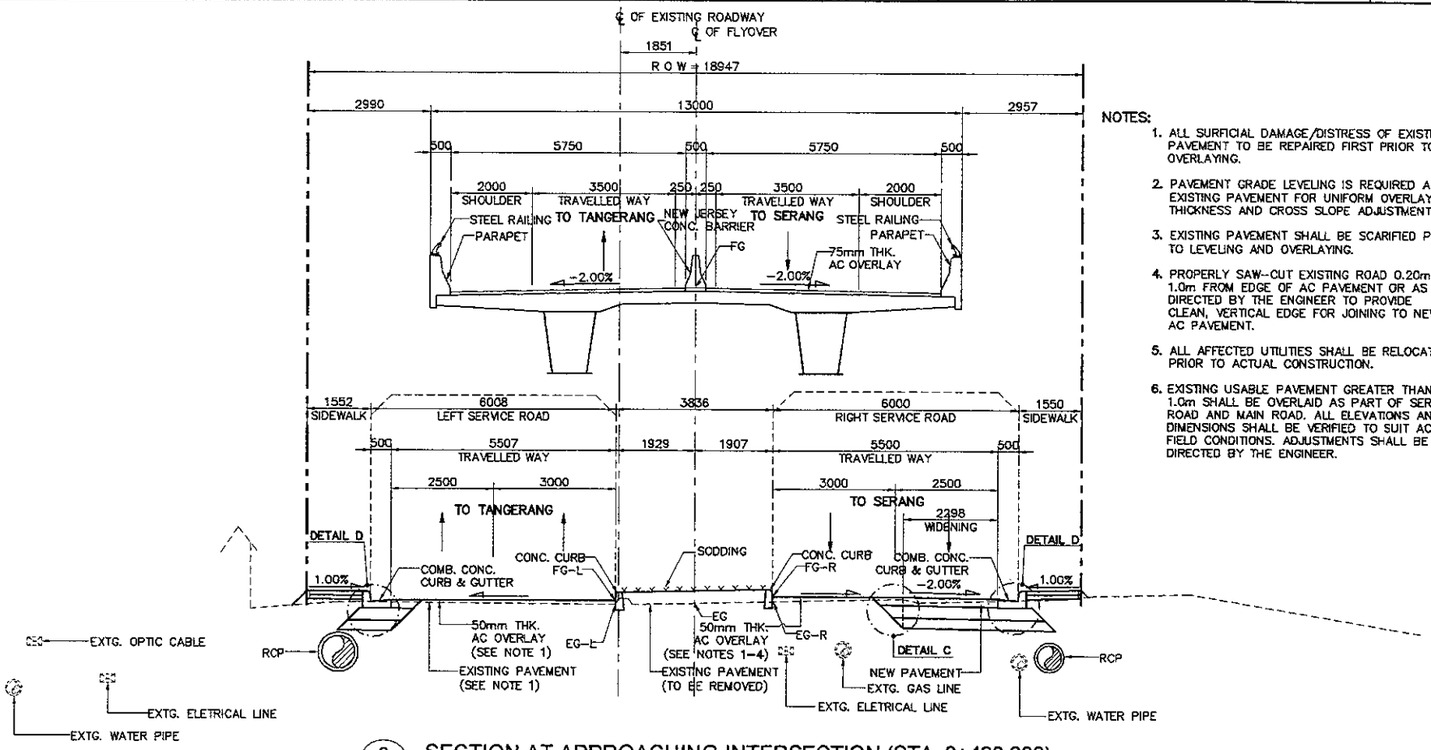
DETAIL D
SCALE 1:30



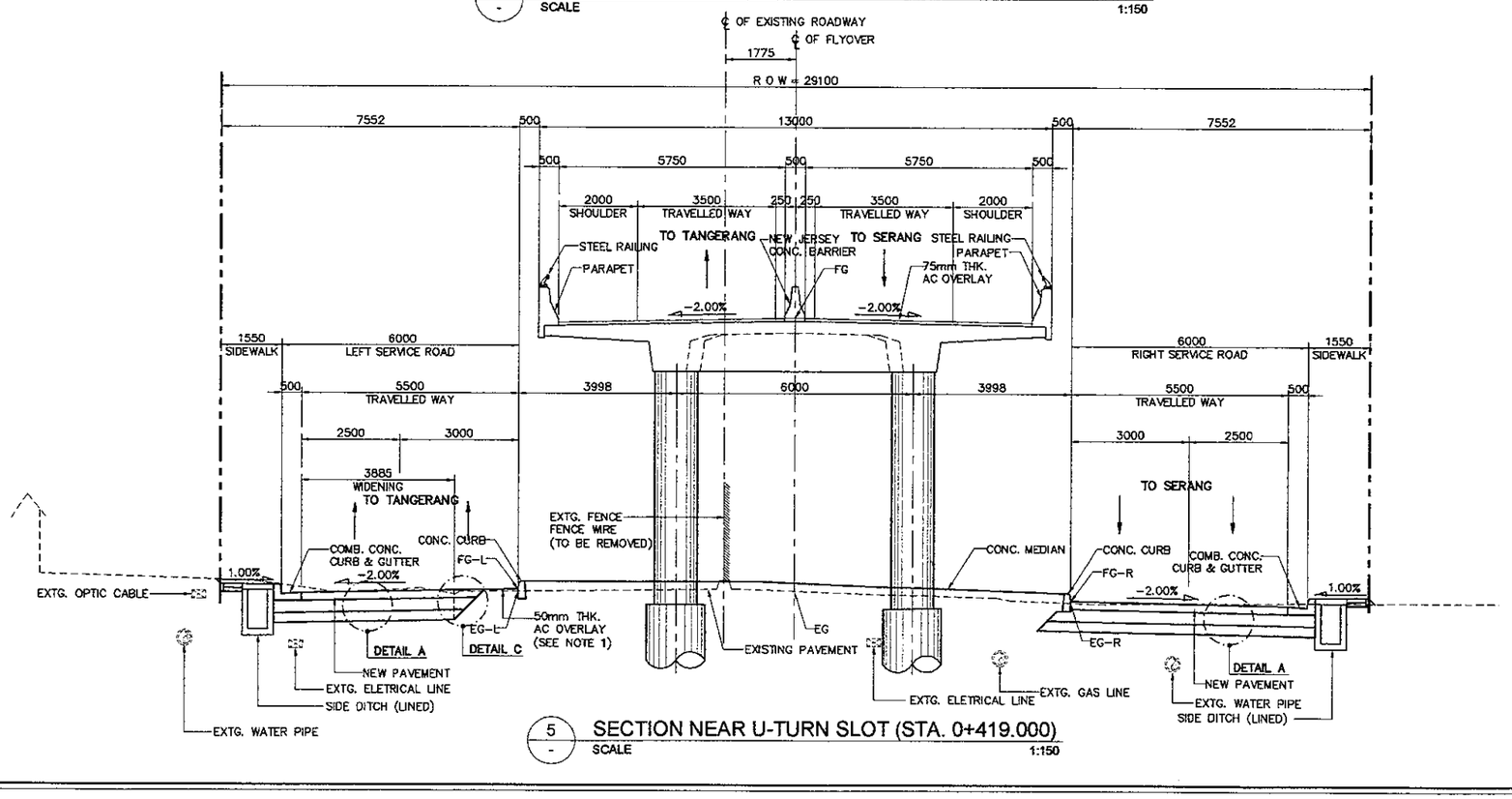
DETAIL C
SCALE 1:30



DETAIL A
SCALE 1:30



6 - SECTION AT APPROACHING INTERSECTION (STA. 0+490.000)
SCALE 1:150



5 - SECTION NEAR U-TURN SLOT (STA. 0+419.000)
SCALE 1:150

NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
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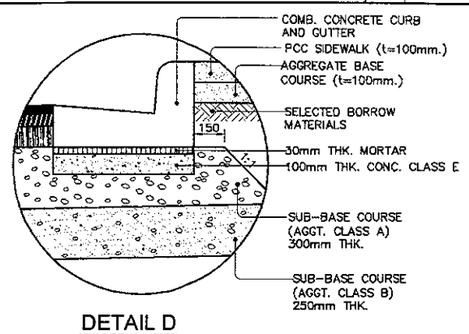
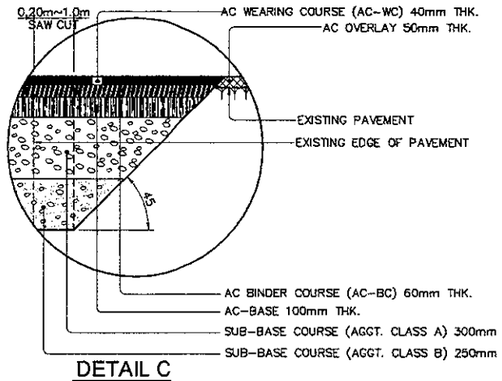
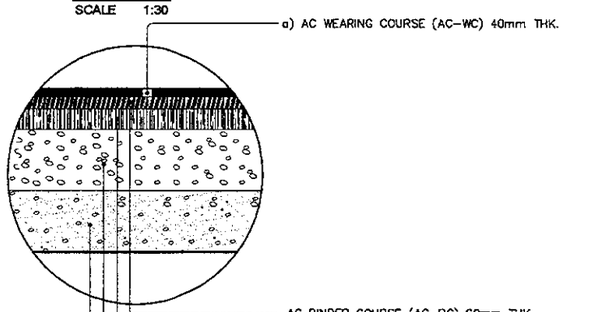
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 150 FULL SIZE A3	DRAWING TITLE : TYPICAL ROAD CROSS SECTION (4 OF 5)	DRAWING NO : BRD-015 SHEET NO : 15 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				
	Date		Date		Date						



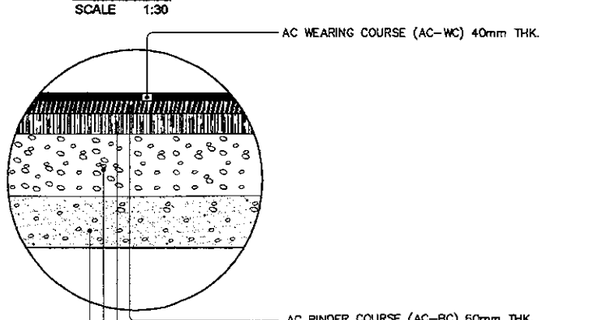
DETAIL D
SCALE 1:30



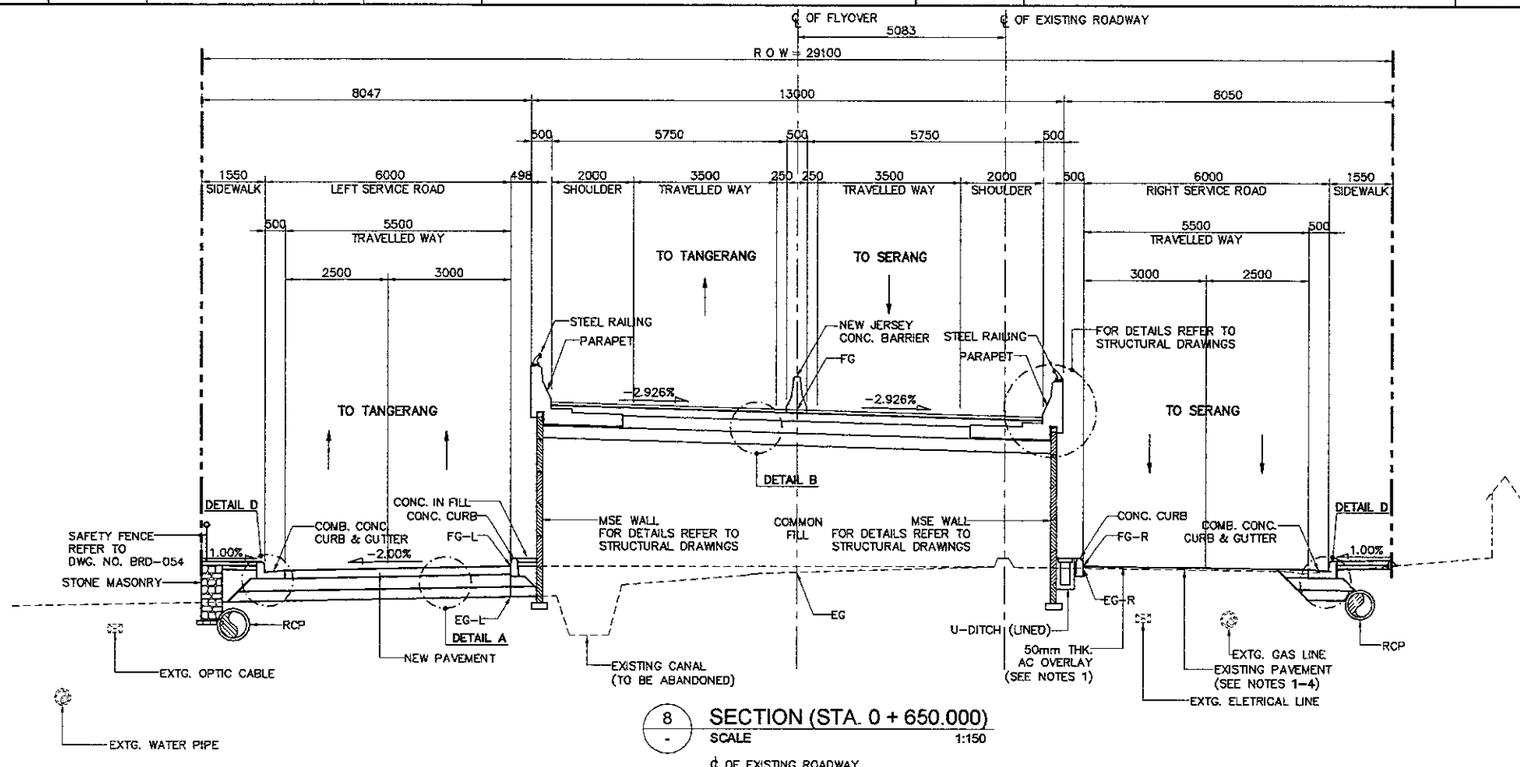
DETAIL C
SCALE 1:30



DETAIL B
SCALE 1:30



DETAIL A
SCALE 1:30



8 - SECTION (STA. 0 + 650.000)
SCALE 1:150

NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
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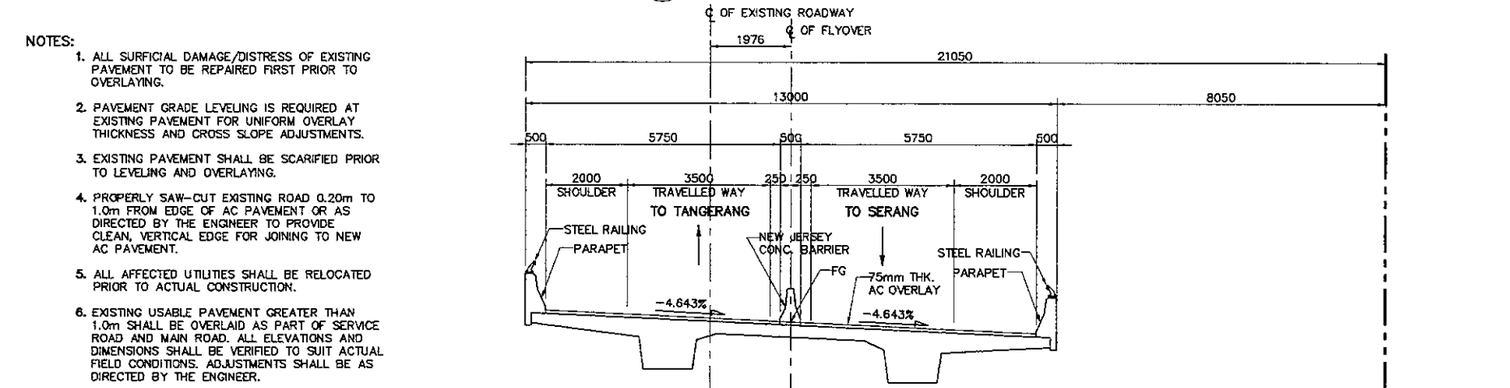
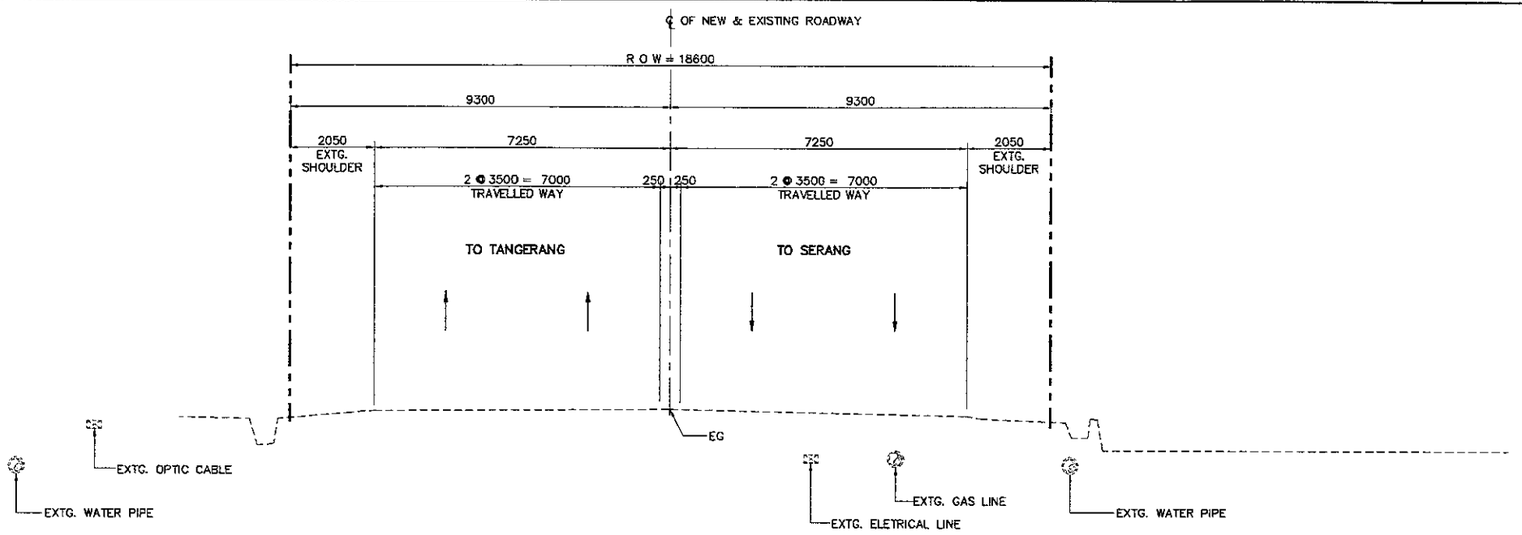
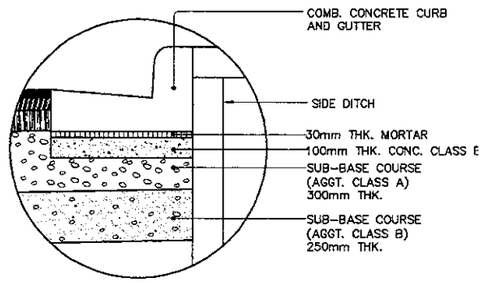


7 - SECTION AT INTERSECTION (STA. 0+595.000)
SCALE 1:150

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 150 FULL SIZE A3	DRAWING TITLE : TYPICAL ROAD CROSS SECTION (5 OF 5)	DRAWING NO : BRD-016 SHEET NO : 16 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY: Ir. HERRY VAZA M.Eng.Sc NIP. : 110038400				
	Date		Date		Date		Sign / Date				



10 / - SECTION AT END OF PROJECT (STA. 0+961.500)
SCALE 1:150



DETAIL D
SCALE 1:30

NOTES:
1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
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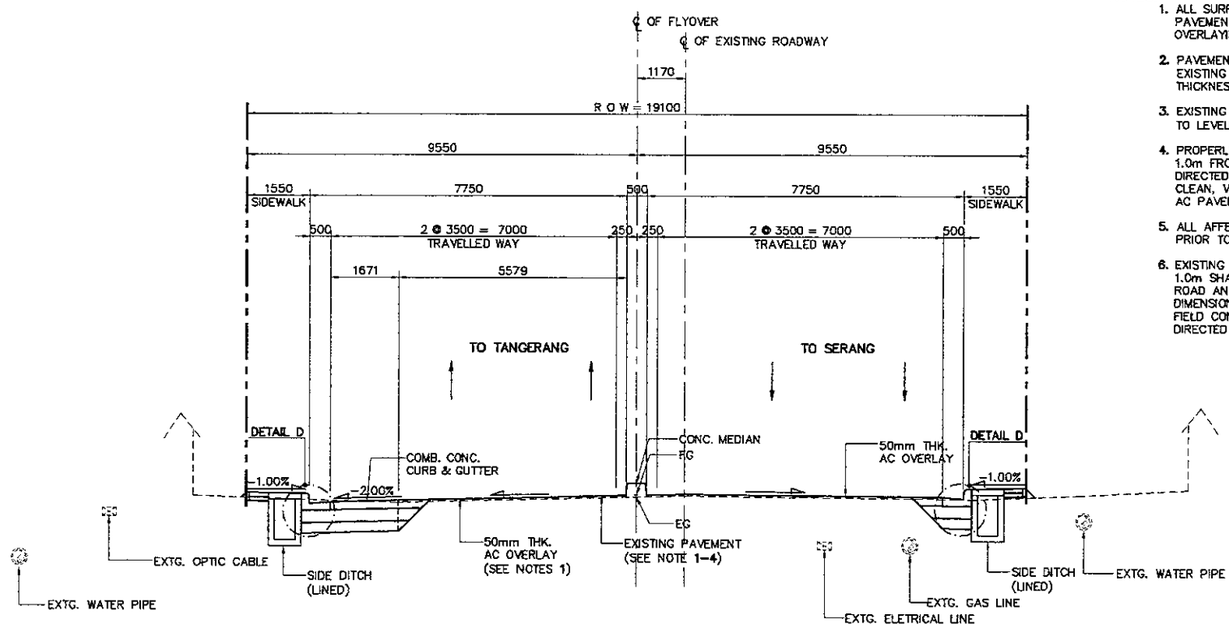
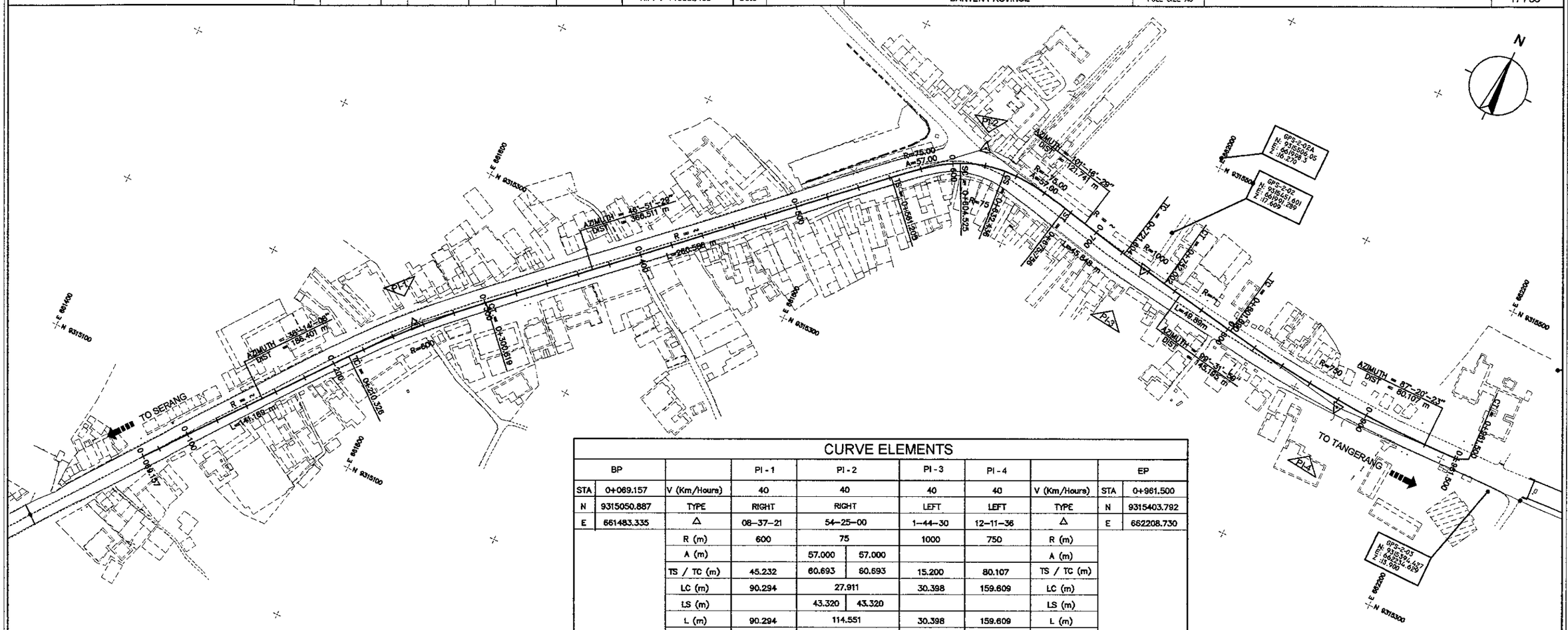


9 / - SECTION AT NEAR END OF PROJECT (STA. 0+860.000)
SCALE 1:150

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS		PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI			DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 2500 FULL SIZE A3	ALIGNMENT LAYOUT AND CURVE ELEMENTS	BRD-017 SHEET NO : 17 / 56
	Sign		Sign		Sign		APPROVED BY : Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	Sign / Date				
	Date		Date		Date							



1 - ALIGNMENT LAYOUT AND CURVE ELEMENTS
SCALE 1:2500

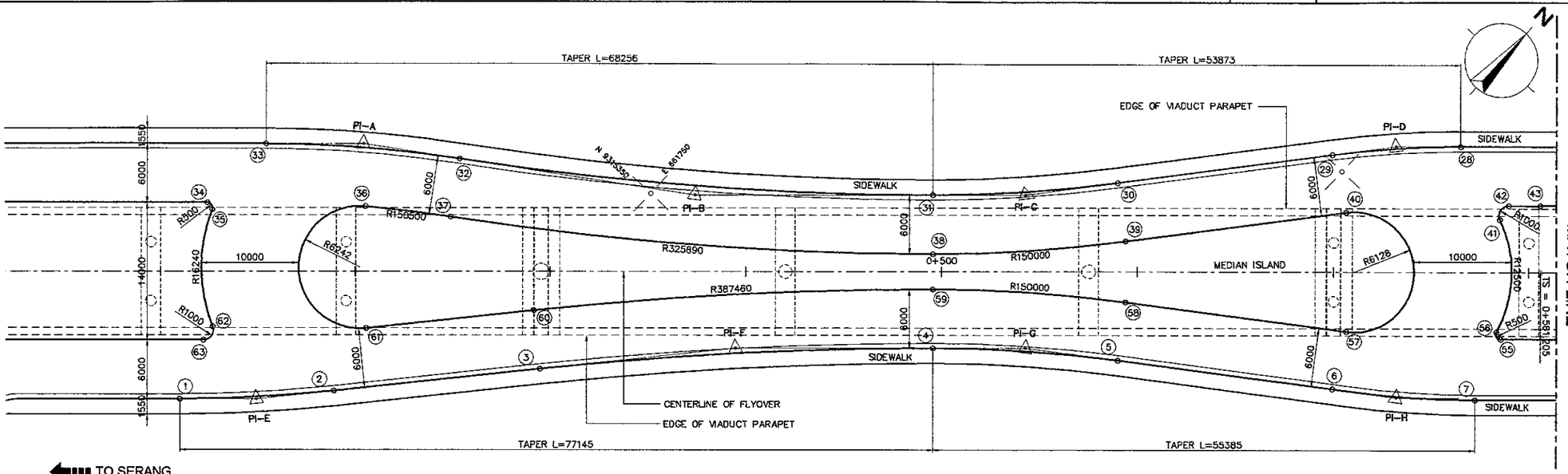
CURVE ELEMENTS

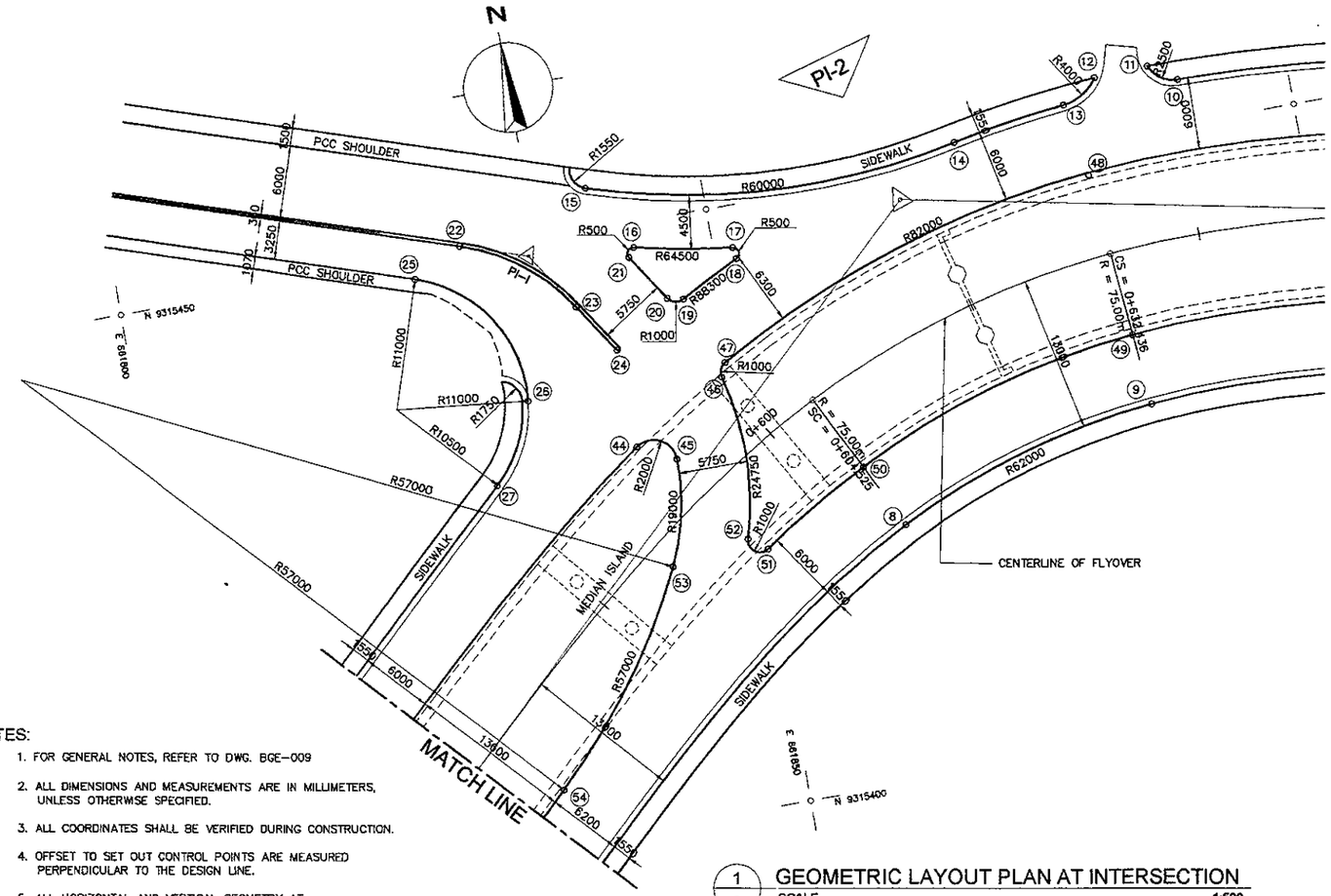
BP			PI - 1	PI - 2		PI - 3	PI - 4		EP	
STA	0+069.157	V (Km/Hours)	40	40		40	40	V (Km/Hours)	STA	0+961.500
N	9315050.887	TYPE	RIGHT	RIGHT		LEFT	LEFT	TYPE	N	9315403.792
E	661483.335	△	08–37–21	54–25–00		1–44–30	12–11–36	△	E	662208.730
		R (m)	600	75		1000	750	R (m)		
		A (m)		57.000	57.000			A (m)		
		TS / TC (m)	45.232	60.693	60.693	15.200	80.107	TS / TC (m)		
		LC (m)	90.294	27.911		30.398	159.609	LC (m)		
		LS (m)		43.320	43.320			LS (m)		
		L (m)	90.294	114.551		30.398	159.609	L (m)		
		e max (%)	2.0	5.7		Normal = 2	Normal = 2	e max (%)		
		PI STA	0+255.558	0+821.898		0+736.804	0+881.998	STA PI		
		PI N	9315197.300	9315447.923		9315424.121	9315400.074	N PI		
		PI E	661598.698	661866.127		661985.519	662128.709	E PI		
		TS/SS STA		0+561.205				STA TS/SS		
		TS/SS N		9315408.421				N TS/SS		
		TS/SS E		661821.842				E TS/SS		
		SC/TC /CC STA	0+210.326	0+804.525		0+721.604	0+801.890	STA SC/TC /CC		
		SC/TC /CC N	9315161.771	9315432.772		9315427.093	9315413.341	N SC/TC /CC		
		SC/TC /CC E	661570.704	661856.023		661970.612	662049.708	E SC/TC /CC		
		CS/CT /CC STA	0+300.619	0+632.436		0+752.002	0+961.500	STA CS/CT /CC		
		CS/CT /CC N	9315228.230	9315440.391		9315421.604	9315403.792	N CS/CT /CC		
		CS/CT /CC E	661631.702	661882.707		662000.509	662208.730	E CS/CT /CC		
		ST/SS STA		0+675.756				STA ST/SS		
		ST/SS N		9315436.057				N ST/SS		
		ST/SS E		661925.648				E ST/SS		
38–14–08		AZIMUTH	46–51–29	101–16–29		99–31–59	87–20–23	AZIMUTH	87–20–23	

REFERENCE PEGS LAYOUT

	GPS-2-01	GPS-2-01A	GPS-2-02A	GPS-2-02
N	9314849.475	9314894.752	9315506.05	9315451.60
E	661345.124	661478.528	661998.3	661991.289
Z	20.587	21.683	16.270	17.609

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY: Name R. UENO; Sign; Date	CHECKED BY: Name T. OKUMURA; Sign; Date	SUBMITTED BY: Name M. KIUCHI; Sign; Date	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS APPROVED BY: Ir. HERRY VAZA M,Eng.Sc; NIP. : 110038400; Sign; Date	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 500 FULL SIZE A3	DRAWING TITLE : GEOMETRIC LAYOUT PLAN AT INTERSECTION	DRAWING NO : BRD-018 SHEET NO : 18 / 56





NOTES:

1. FOR GENERAL NOTES, REFER TO DWG. BGE-009
2. ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
3. ALL COORDINATES SHALL BE VERIFIED DURING CONSTRUCTION.
4. OFFSET TO SET OUT CONTROL POINTS ARE MEASURED PERPENDICULAR TO THE DESIGN LINE.
5. ALL HORIZONTAL AND VERTICAL GEOMETRY AT CONNECTIONS/TIE-INS SHALL BE VERIFIED DURING CONSTRUCTION.

1 - GEOMETRIC LAYOUT PLAN AT INTERSECTION
SCALE 1:500

CURVE ELEMENTS

P.I.	I	R (m)	T (m)	Lc (m)	E (m)	COORDINATES NORTHINGS	COORDINATES EASTINGS
PI-A	8°-42'-47"	130.690	9.956	19.874	0.379	9315333.587	661725.113
PI-B	8°-42'-47"	317.886	24.370	48.646	0.927	9315352.9946	661753.4266
PI-C	7°-31'-59"	144.00	9.480	18.933	0.312	9315376.1417	661778.1258
PI-D	7°-31'-59"	100.00	6.584	13.148	0.217	9315405.6442	661802.2946
PI-E	6°-03'-02"	156.00	8.245	16.475	0.218	9315307.151	661734.926
PI-F	6°-03'-02"	381.458	20.161	40.284	0.532	9315344.4902	661767.1652
PI-G	7°-31'-59"	144.00	9.480	18.933	0.312	9315364.7590	661788.7932
PI-H	8°-42'-47"	100.00	6.584	13.148	0.217	9315386.9648	661819.8001
PI-I	38°-29'-07"	16.700	5.830	11.217	0.988	9315448.764	661834.646

NOTE: FOR CURVE ELEMENTS AT CENTERLINE OF FLYOVER, REFER TO DWG. BRD-017

TABLE OF COORDINATES

CONTROL POINTS	COORDINATE NORTHING	COORDINATE EASTING	CONTROL POINTS	COORDINATE NORTHING	COORDINATE EASTING	CONTROL POINTS	COORDINATE NORTHING	COORDINATE EASTING
①	9315301.730	661729.142	㉒	9315450.584	661829.108	㊸	9315411.383	661817.192
②	9315313.151	661740.107	㉓	9315443.894	661837.849	㊹	9315431.496	661840.791
③	9315329.230	661753.990	㉔	9315439.752	661840.573	㊺	9315429.907	661843.943
④	9315358.276	661781.876	㉕	9315448.521	661824.974	㊻	9315435.988	661848.826
⑤	9315370.279	661796.501	㉖	9315436.884	661832.476	㊼	9315437.122	661849.300
⑥	9315383.132	661814.448	㉗	9315430.383	661828.692	㊽	9315447.162	661882.083
⑦	9315392.355	661825.844	㉘	9315410.146	661807.098	㊾	9315433.420	661883.351
⑧	9315421.148	661861.843	㉙	9315400.551	661798.123	㊿	9315426.513	661859.157
⑨	9315427.446	661883.902	㉚	9315383.475	661784.134	㊿①	9315421.195	661850.156
⑩	9315453.726	661890.796	㉛	9315369.659	661771.208	㊿②	9315422.312	661848.638
⑪	9315455.262	661888.503	㉜	9315339.216	661733.325	㊿③	9315421.161	661842.031
⑫	9315455.083	661883.989	㉝	9315326.779	661717.848	㊿④	9315404.521	661829.759
⑬	9315453.290	661881.030	㉞	9315318.274	661717.547	㊿⑤	9315398.670	661823.516
⑭	9315451.816	661871.449	㉟	9315318.095	661718.353	㊿⑥	9315398.913	661822.689
⑮	9315453.523	661840.347	㊱	9315329.078	661729.602	㊿⑦	9315388.393	661811.489
⑯	9315447.942	661843.466	㊲	9315334.267	661736.718	㊿⑧	9315375.157	661793.007
⑰	9315446.455	661851.640	㊳	9315365.281	661775.311	㊿⑨	9315362.654	661777.773
⑱	9315445.507	661851.797	㊴	9315379.673	661788.775	㋀	9315333.151	661749.448
⑲	9315442.951	661846.816	㊵	9315397.258	661803.181	㋁	9315320.066	661738.150
⑳	9315443.276	661845.496	㊶	9315407.493	661815.133	㋂	9315309.422	661726.568
㉑	9315447.183	661842.927	㊷	9315409.154	661814.814	㋃	9315307.786	661726.830

JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY | ir. HERRY VAZA M,Eng.Sc | Sign | | NIP. : 110038400 | Date |

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

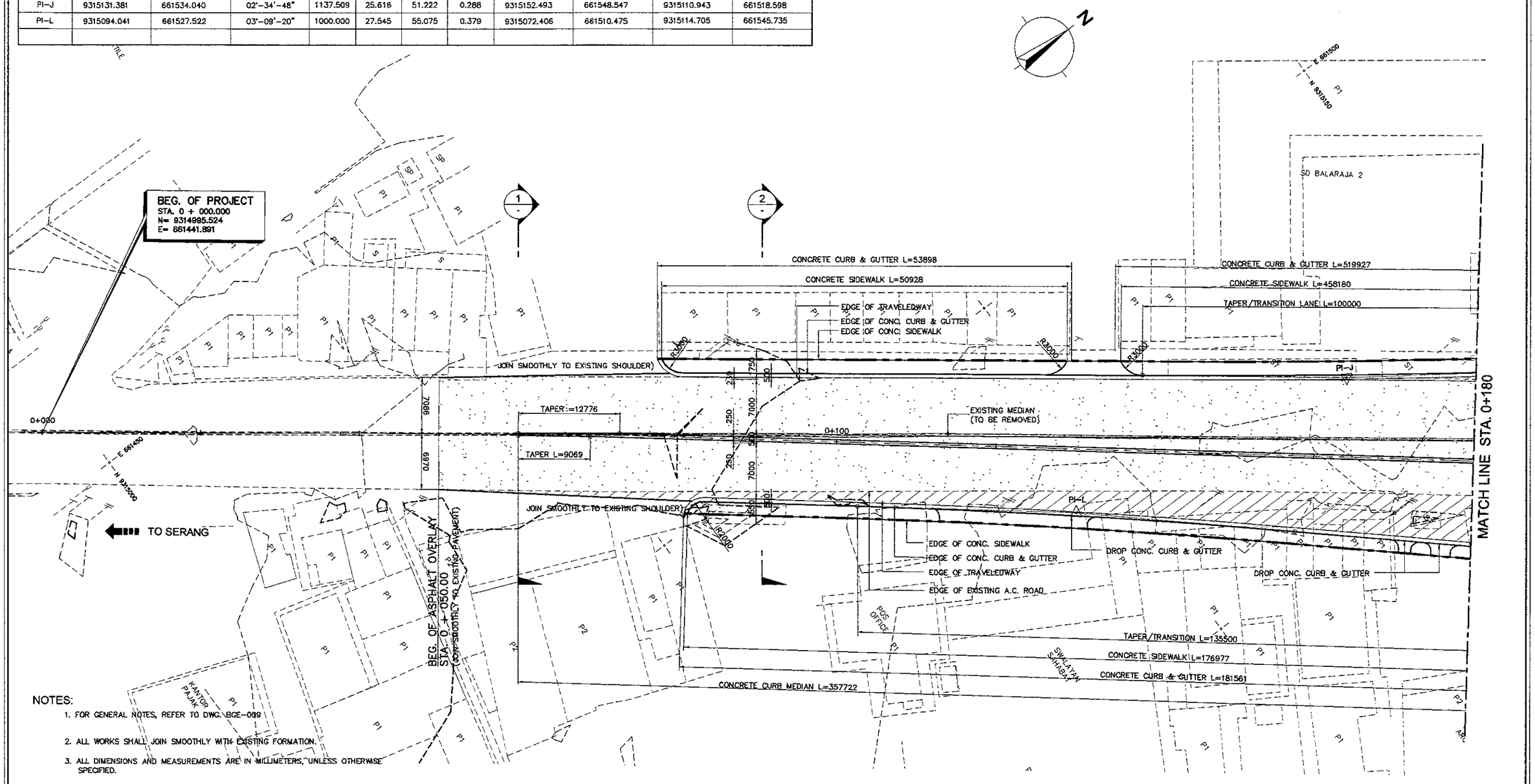
SCALE : 1 : 500
FULL SIZE A3

DRAWING TITLE :
DETAILED CONSTRUCTION LAYOUT PLAN 1 OF 6

DRAWING NO : BRD-019
SHEET NO : 19 / 56

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-J	9315131.381	661534.040	02°-34'-48"	1137.509	25.616	51.222	0.288	9315152.493	661548.547	9315110.943	661518.598
PI-L	9315094.041	661527.522	03°-09'-20"	1000.000	27.545	55.075	0.379	9315072.406	661510.475	9315114.705	661545.735



NOTES:

1. FOR GENERAL NOTES, REFER TO DWG. BGE-009
2. ALL WORKS SHALL JOIN SMOOTHLY WITH EXISTING FORMATION.
3. ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
4. FOR CURB AND GUTTER DETAILS, REFER TO DWG. BRD-051
5. FOR DRAINAGE LAYOUT, REFER TO DWGS. BDG-002 TO BDG-004
6. FOR STANDARD ASPHALT PAVEMENT DETAILS, REFER TO DWG. BRD-050
7. MOUNTABLE (DROP) CONC. CURB AND MOUNTABLE (DROP) COMBINATION CONC. CURB & GUTTER SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AT ALL DRIVEWAYS AND ENTRANCES AFFECTED BY WIDENING AND/OR AT-GRADE IMPROVEMENT OR AS SPECIFIED IN THIS DRAWING.
8. FOR CURVE ELEMENTS OF FLYOVER CENTERLINE ALIGNMENT, REFER TO DWG. BRD-017
9. ALL HORIZONTAL AND VERTICAL GEOMETRY AT CONNECTIONS/TIE-INS SHALL BE VERIFIED ON SITE BEFORE CONSTRUCTION.
10. FOR GEOMETRIC LAYOUT AT INTERSECTION, REFER TO DWG. BRD-018

1 - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING -NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY | Ir. HERRY VAZA M,Eng.Sc | Sign |
NIP. : 110038400 | Date |

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

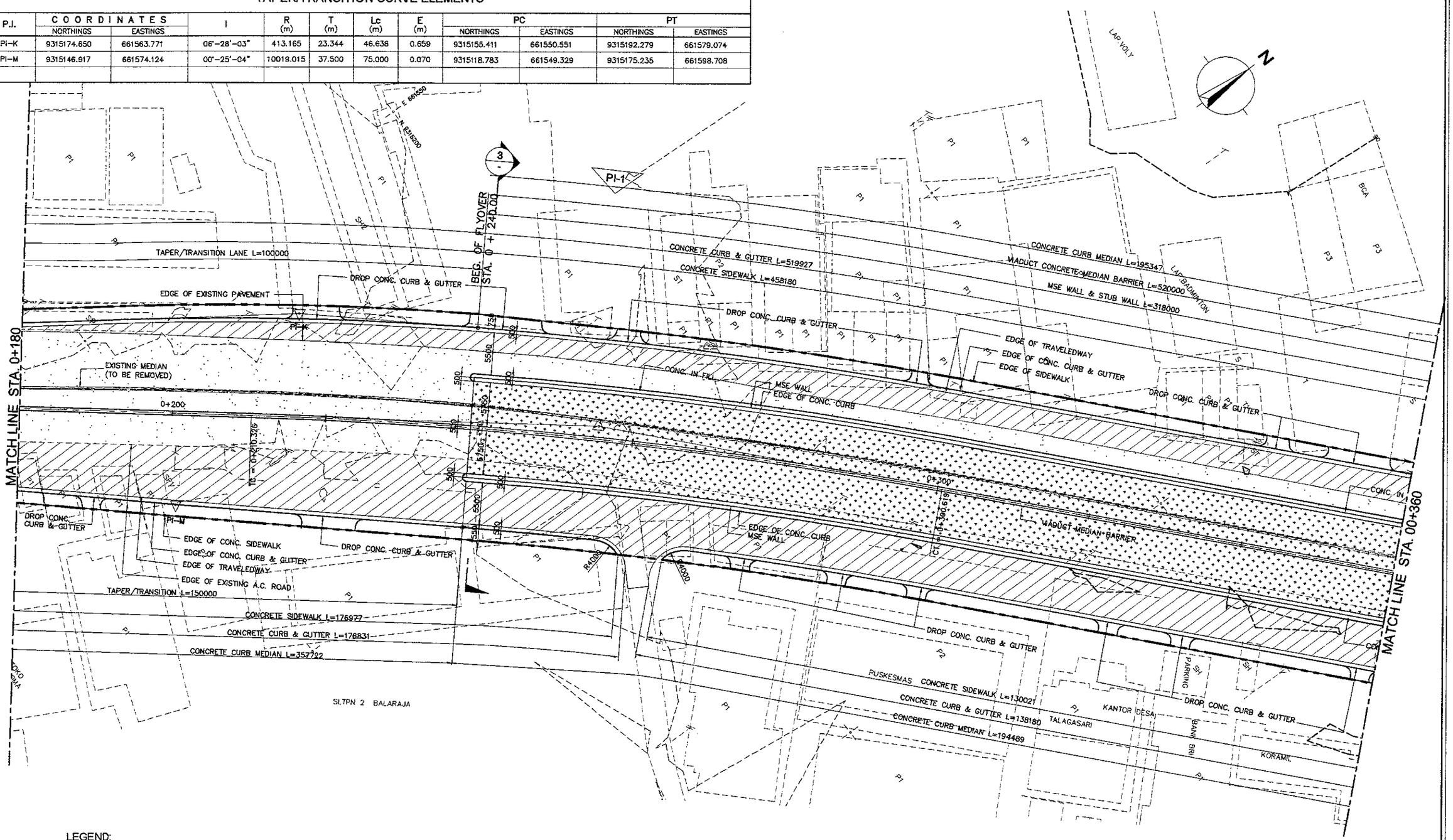
SCALE : 1 : 500
FULL SIZE A3

DRAWING TITLE :
DETAILED CONSTRUCTION LAYOUT PLAN 2 OF 6

DRAWING NO : BRD-020
SHEET NO : 20 / 56

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-K	9315174.650	661563.771	06°-28'-03"	413.165	23.344	46.638	0.659	9315155.411	661550.551	9315192.279	661579.074
PI-M	9315146.917	661574.124	00°-25'-04"	10019.015	37.500	75.000	0.070	9315118.783	661549.329	9315175.235	661598.708



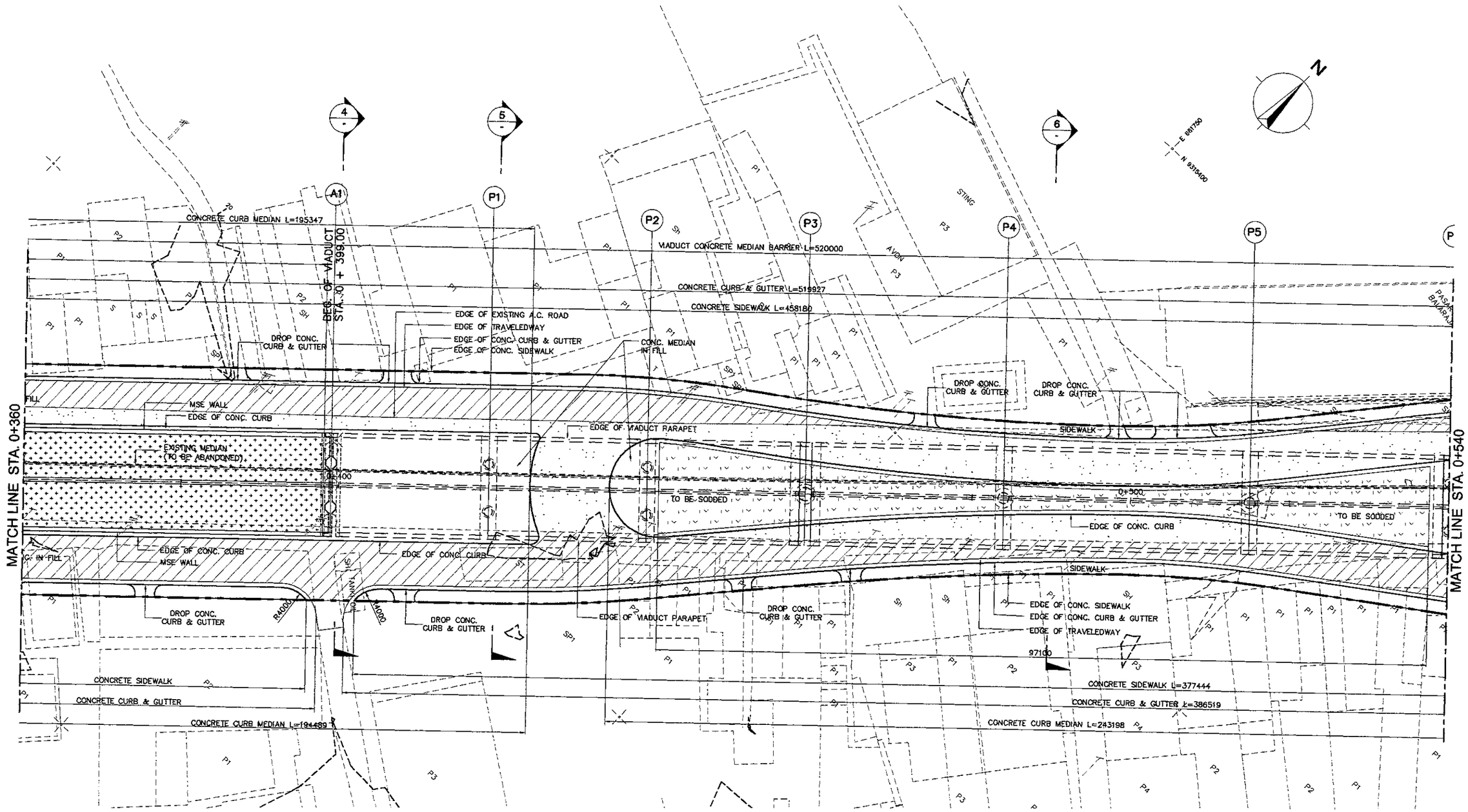
LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING ~NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:
1. FOR SPECIFIC NOTES, REFER TO DWG. BRD-019

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 500 FULL SIZE A3	DRAWING TITLE : DETAILED CONSTRUCTION LAYOUT PLAN 3 OF 6	DRAWING NO : BRD-021 SHEET NO : 21 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				



LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING –NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:
1. FOR SPECIFIC NOTES, REFER TO DWG. BRD-019

JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

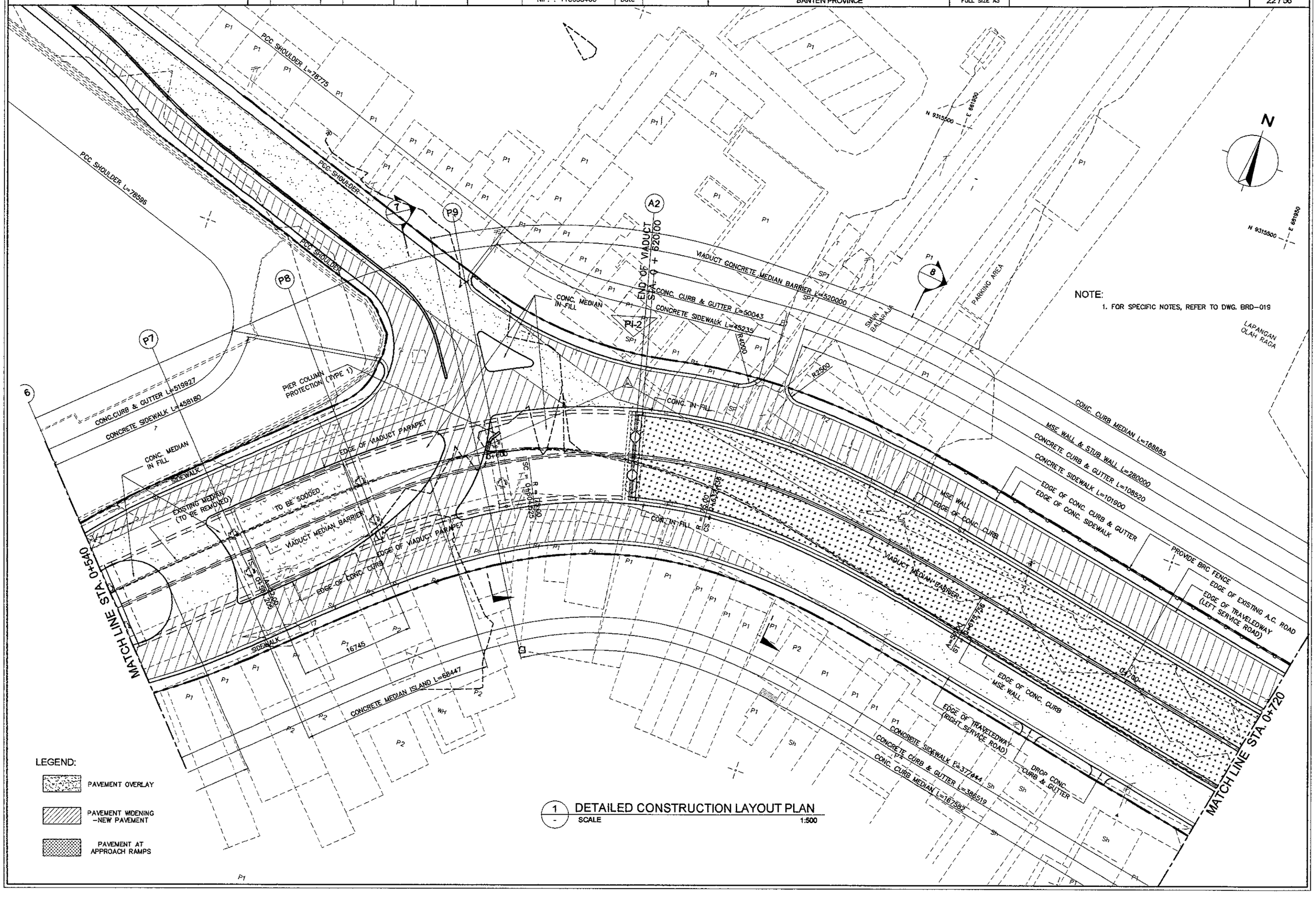
APPROVED BY | Ir. HERRY VAZA M,Eng.Sc | Sign
NIP. : 110038400 | Date

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE : 1 : 500
FULL SIZE A3

DRAWING TITLE :
DETAILED CONSTRUCTION LAYOUT PLAN
4 OF 6

DRAWING NO : BRD-022
SHEET NO : 22 / 56

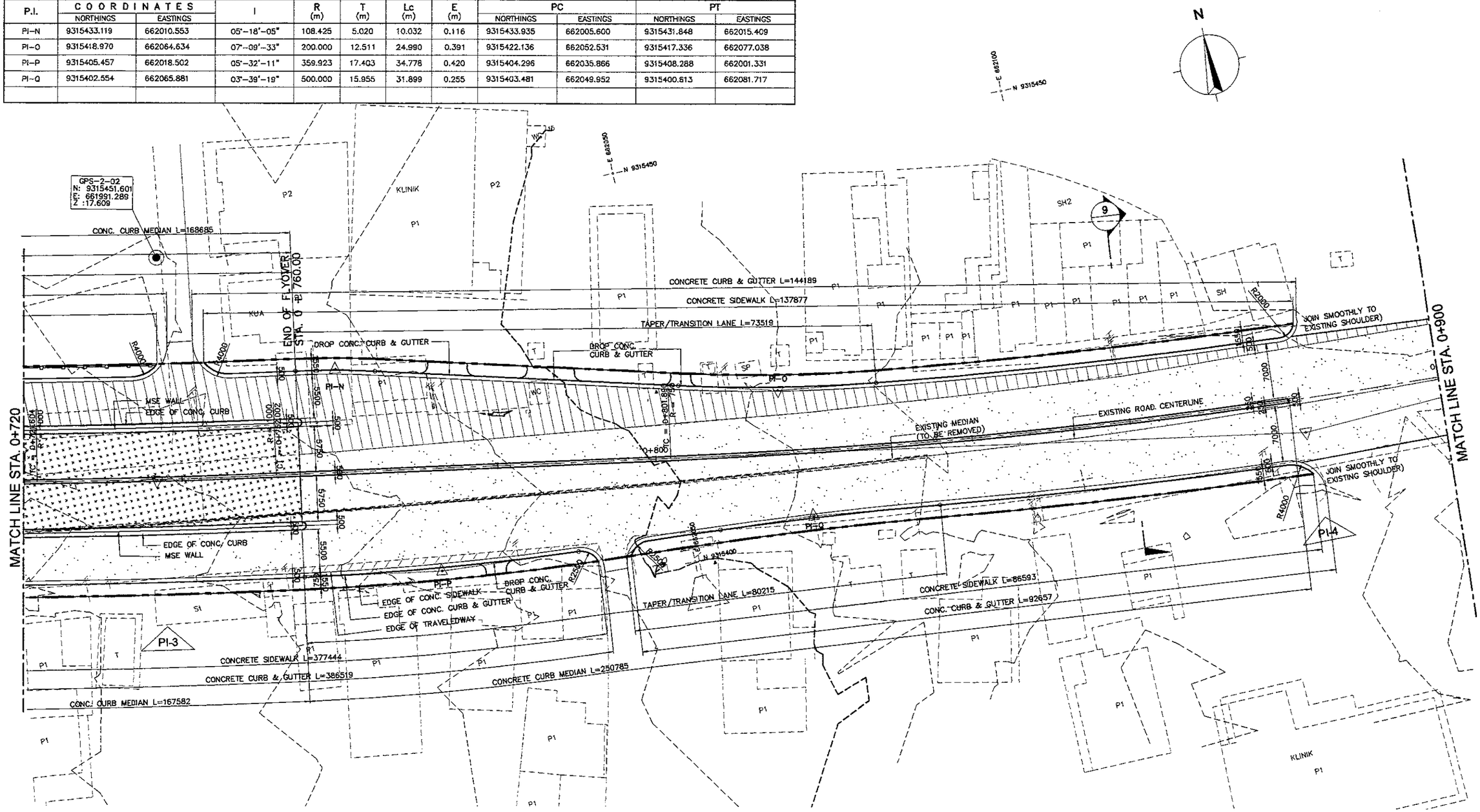


1 - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 500 FULL SIZE A3	DRAWING TITLE : DETAILED CONSTRUCTION LAYOUT PLAN 5 OF 6	DRAWING NO : BRD-023 SHEET NO : 23 / 56
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI					
	Sign	Sign	Sign	APPROVED BY Ir. HERRY VAZA M,Eng.Sc	Sign			
	Date	Date	Date	NIP. : 110038400	Date			

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-N	9315433.119	662010.553	05°-18'-05"	108.425	5.020	10.032	0.116	9315433.935	662005.600	9315431.848	662015.409
PI-O	9315418.970	662064.634	07°-09'-33"	200.000	12.511	24.990	0.391	9315422.136	662052.531	9315417.336	662077.038
PI-P	9315405.457	662018.502	05°-32'-11"	359.923	17.403	34.778	0.420	9315404.296	662035.866	9315408.288	662001.331
PI-Q	9315402.554	662065.881	03°-39'-19"	500.000	15.955	31.899	0.255	9315403.481	662049.952	9315400.613	662081.717



LEGEND:

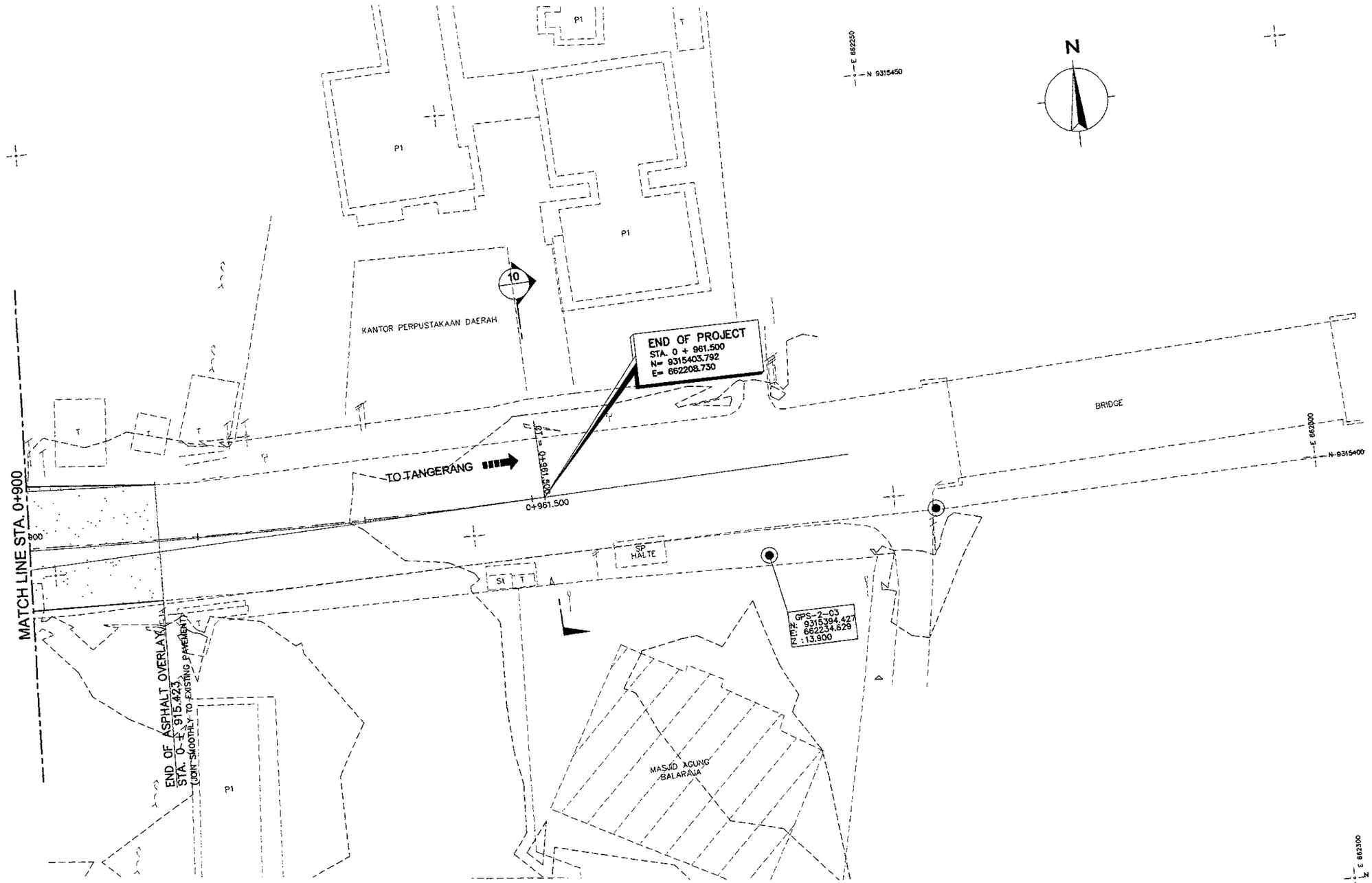
- PAVEMENT OVERLAY
- PAVEMENT WIDENING —NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:

1. FOR SPECIFIC NOTES, REFER TO DWG. BRD-019

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS		PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 500 FULL SIZE A3	DRAWING TITLE : DETAILED CONSTRUCTION LAYOUT PLAN 6 OF 6	DRAWING NO : BRD-024 SHEET NO : 24 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY	Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	Sign Date		



LEGEND:

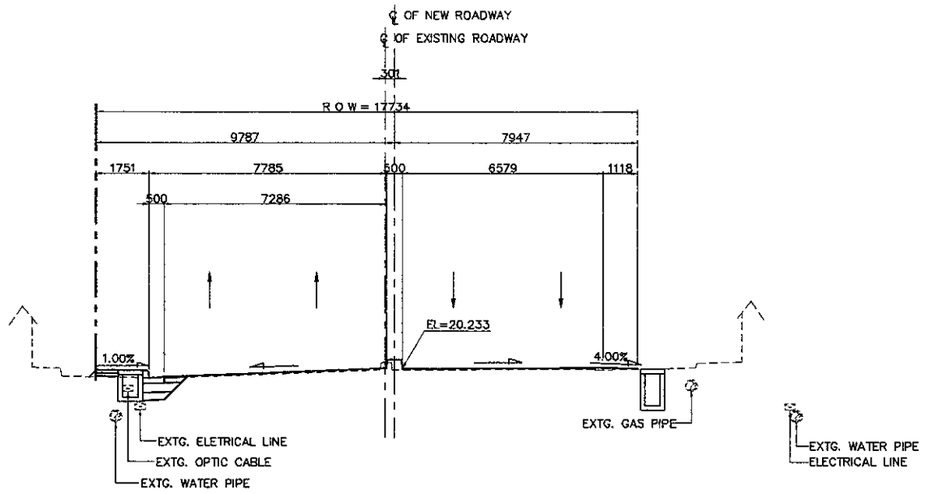
- PAVEMENT OVERLAY
- PAVEMENT WIDENING -NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

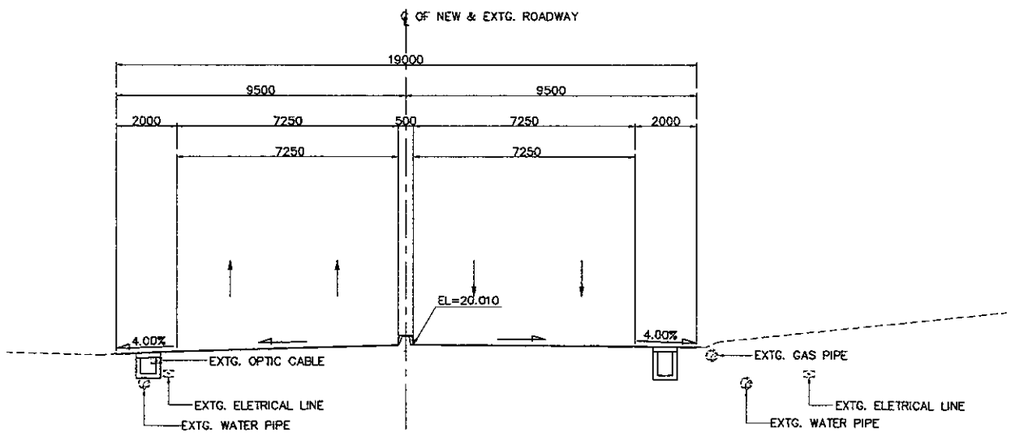
NOTE:

1. FOR SPECIFIC NOTES, REFER TO DWG. BRD-019

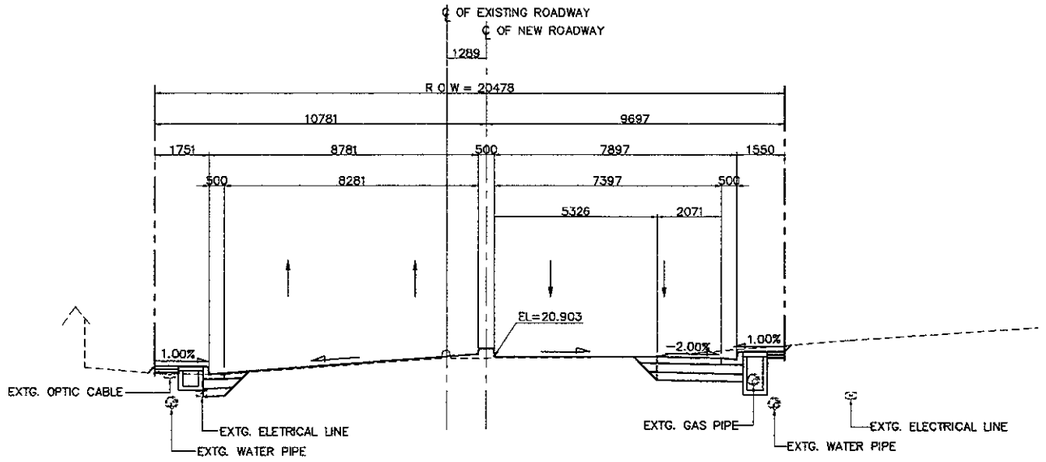
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 060.000 - STA. 0 + 120.000 (1 OF 11)	DRAWING NO : BRD-025 SHEET NO : 25 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				



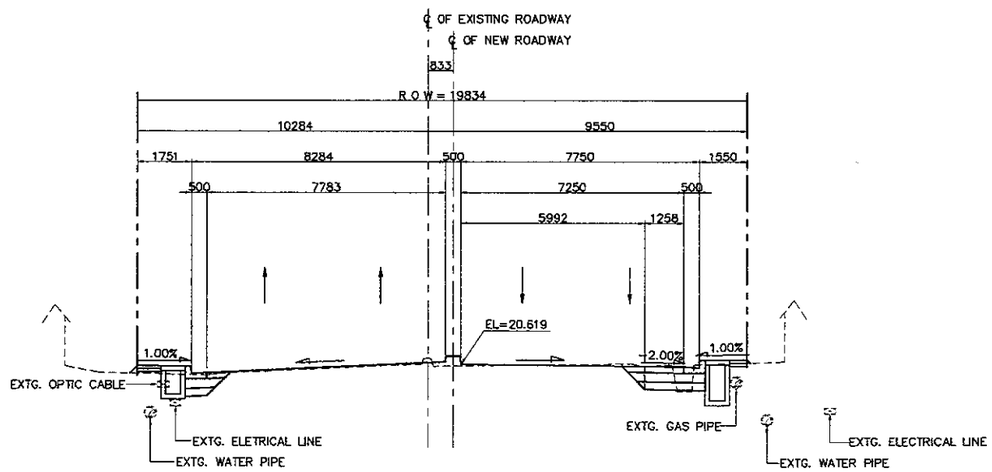
2 SECTION (STA. 0 + 080.000)
SCALE 1:200



1 SECTION (STA. 0 + 060.000)
SCALE 1:200



4 SECTION (STA. 0 + 120.000)
SCALE 1:200

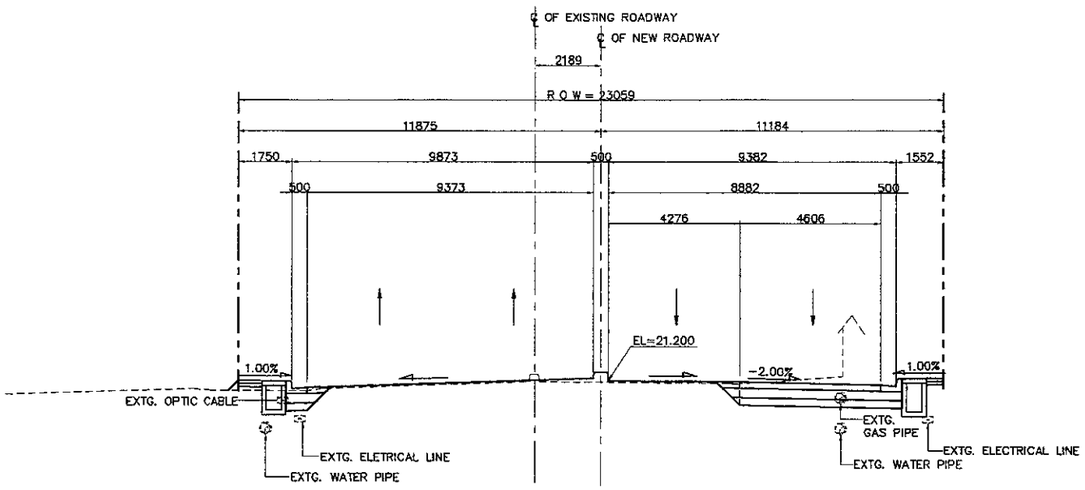


3 SECTION (STA. 0 + 100.000)
SCALE 1:200

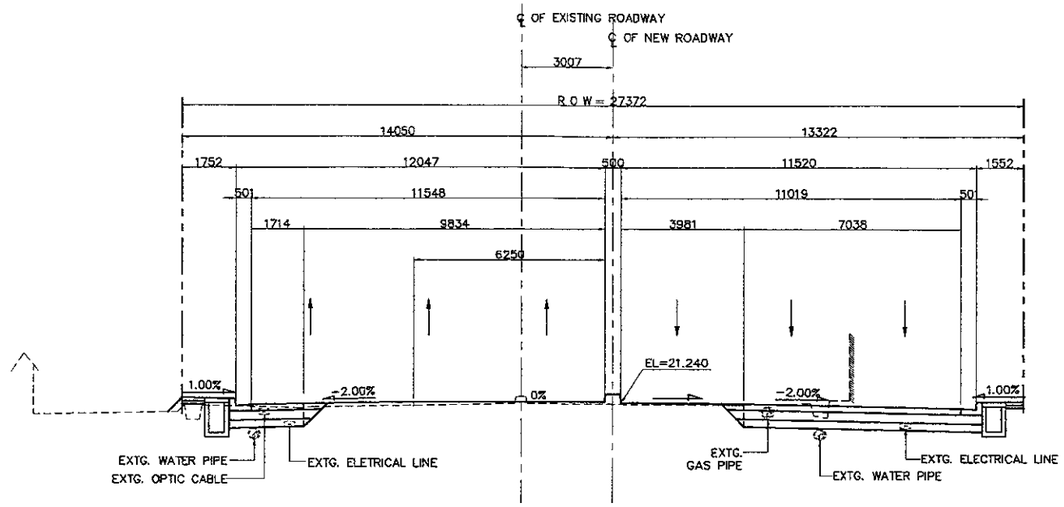
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

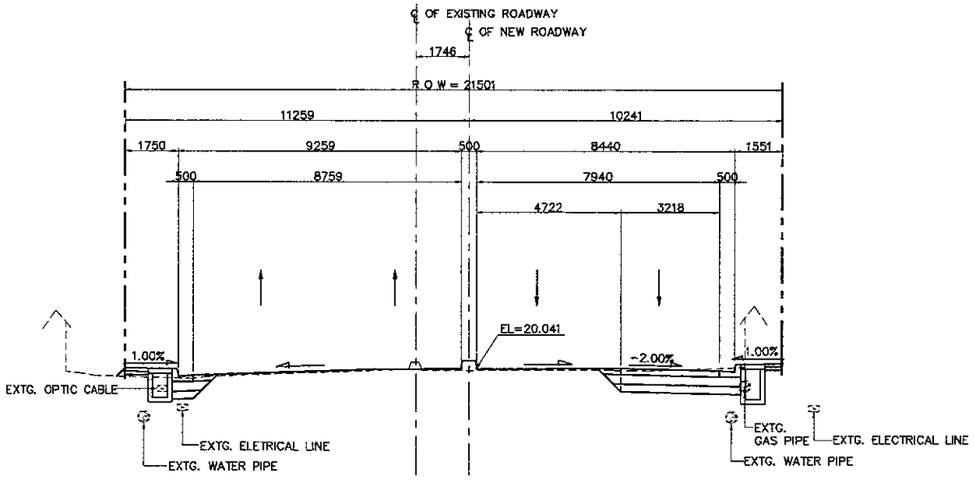
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 140.000 - STA. 0 + 200.000 (2 OF 11)	DRAWING NO : BRD-026 SHEET NO : 26 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY: Ir. HERRY VAZA M,Eng.Sc (NIP. : 110038400) Sign / Date				



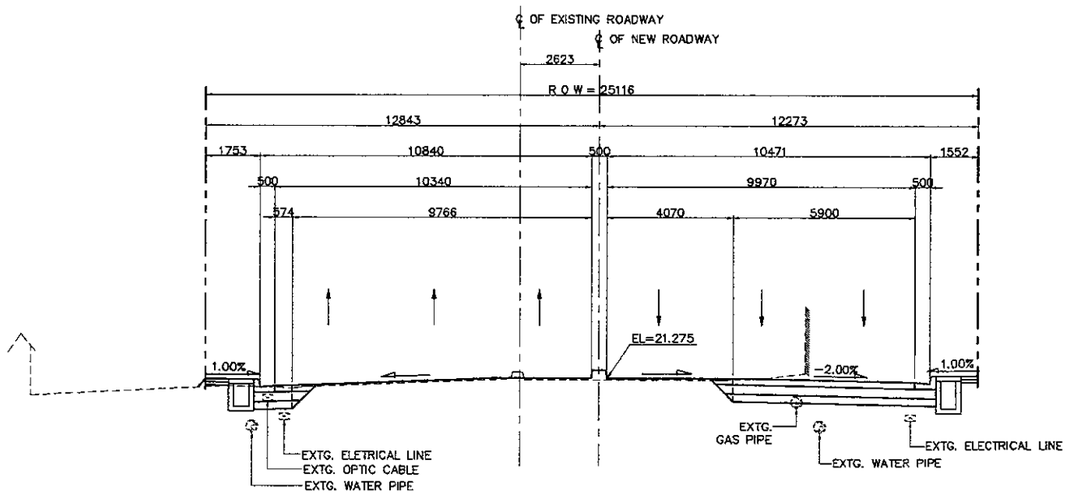
2 - SECTION (STA. 0 + 160.000)
SCALE 1:200



4 - SECTION (STA. 0 + 200.000)
SCALE 1:200



1 - SECTION (STA. 0 + 140.000)
SCALE 1:200

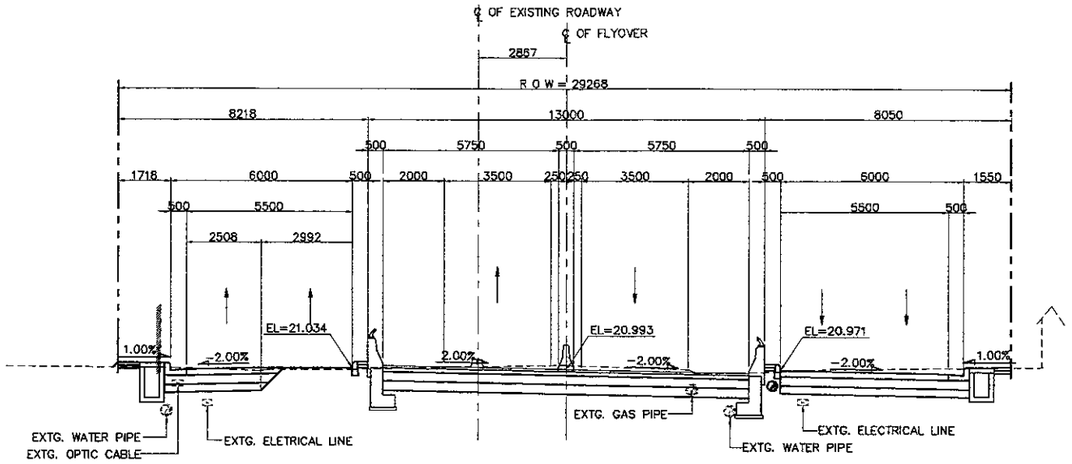


3 - SECTION (STA. 0 + 180.000)
SCALE 1:200

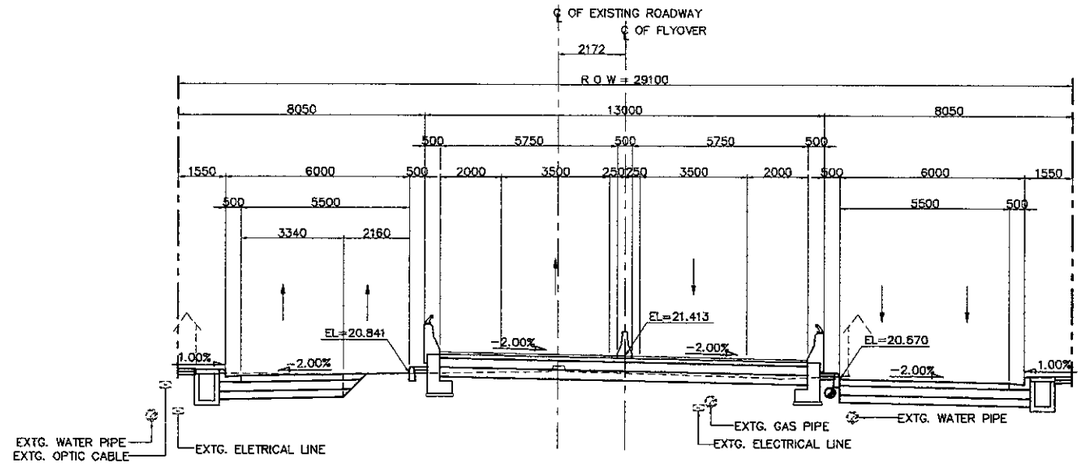
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

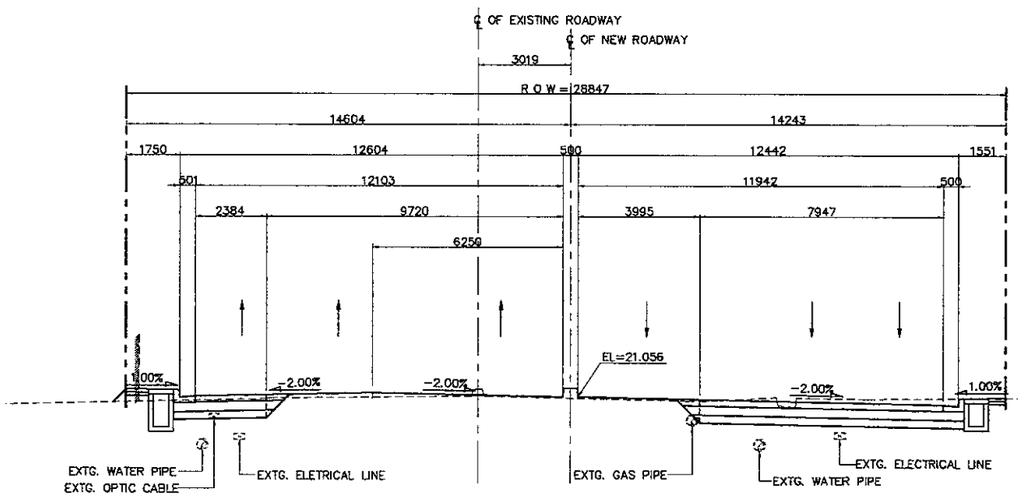
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 220.000 - STA. 0 + 280.000 (3 OF 11)	DRAWING NO : BRD-027 SHEET NO : 27 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY : Ir. HERRY VAZA M,Eng.Sc (NIP. : 110038400) Sign / Date				
	Date		Date		Date						



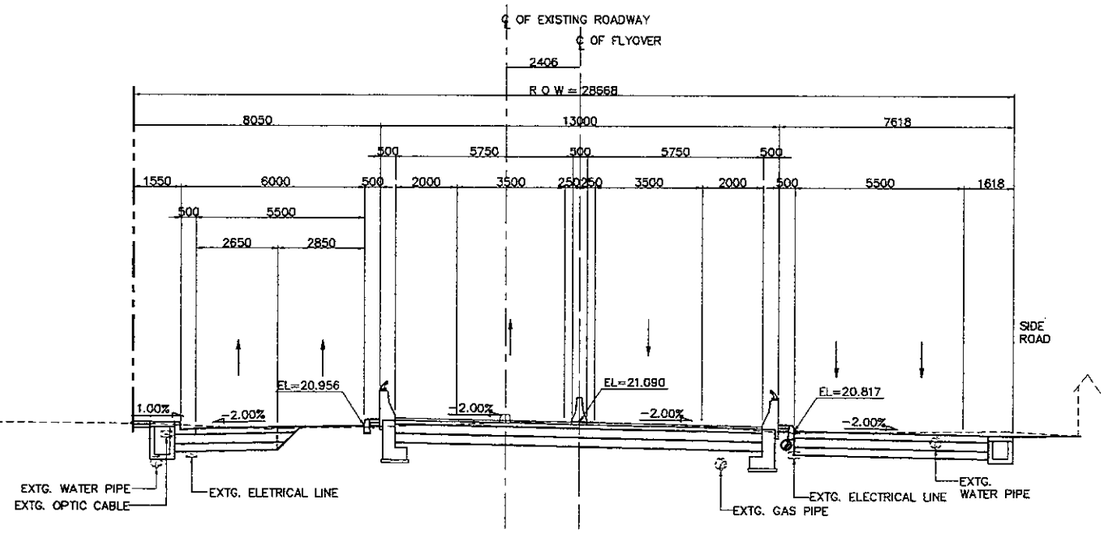
1 SECTION (STA. 0 + 220.000)
SCALE 1:200



2 SECTION (STA. 0 + 240.000)
SCALE 1:200



3 SECTION (STA. 0 + 260.000)
SCALE 1:200

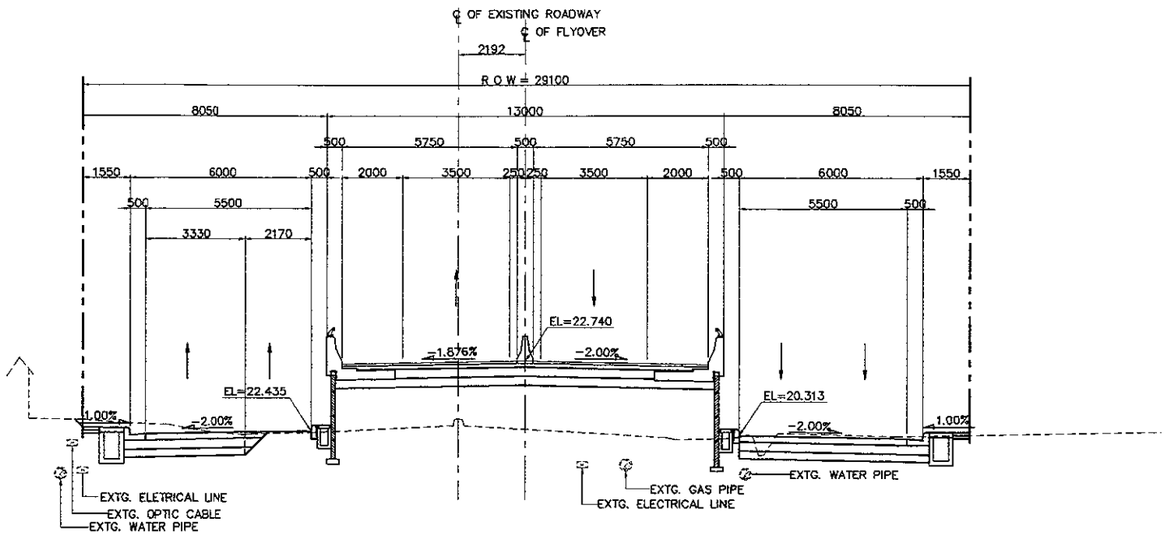


4 SECTION (STA. 0 + 280.000)
SCALE 1:200

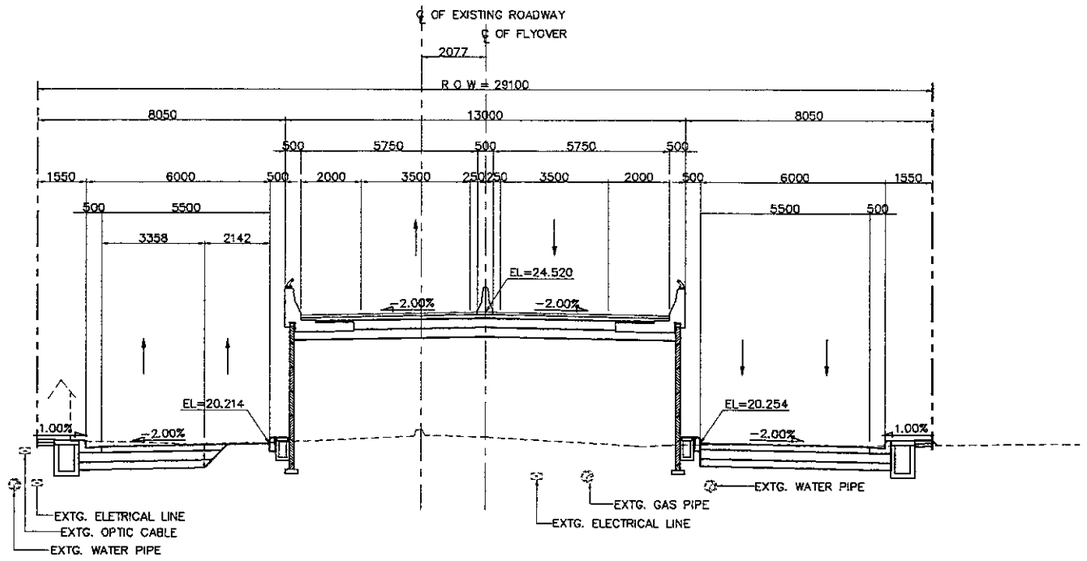
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

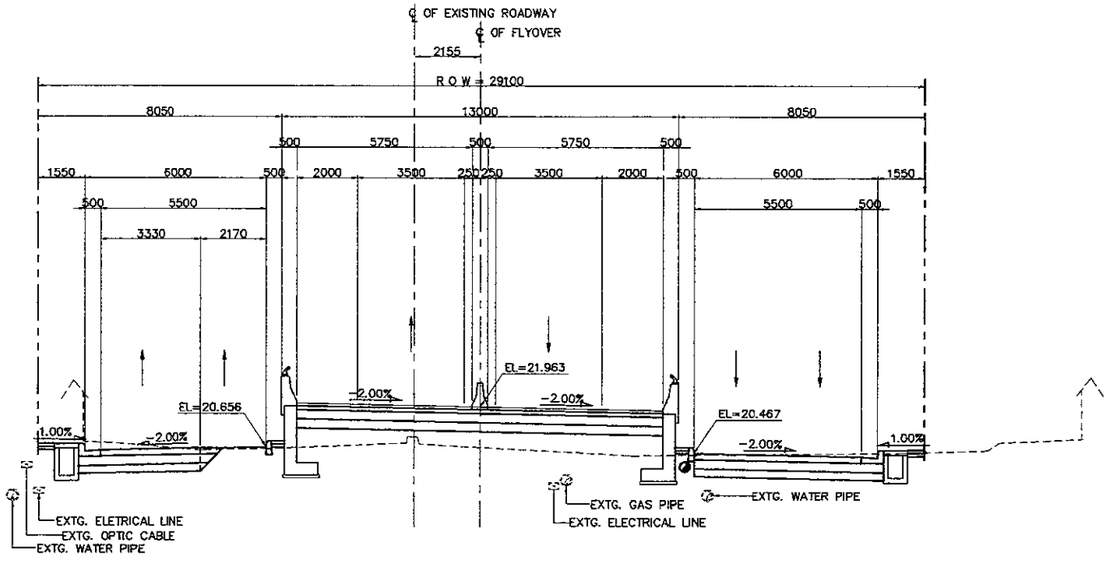
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 300.000 - STA. 0 + 360.000 (4 OF 11)	DRAWING NO : BRD-028 SHEET NO : 28 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY	Ir. HERRY VAZA M,Eng.Sc	Sign		
	Date		Date		Date			NIP. : 110038400	Date		



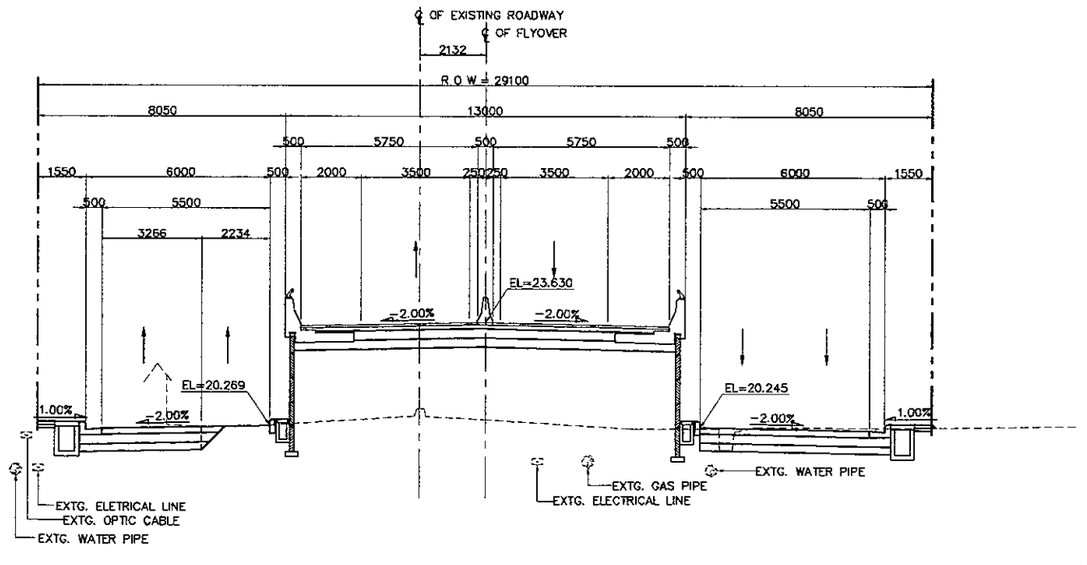
2 - SECTION (STA. 0 + 320.000)
SCALE 1:200



4 - SECTION (STA. 0 + 360.000)
SCALE 1:200



1 - SECTION (STA. 0 + 300.000)
SCALE 1:200

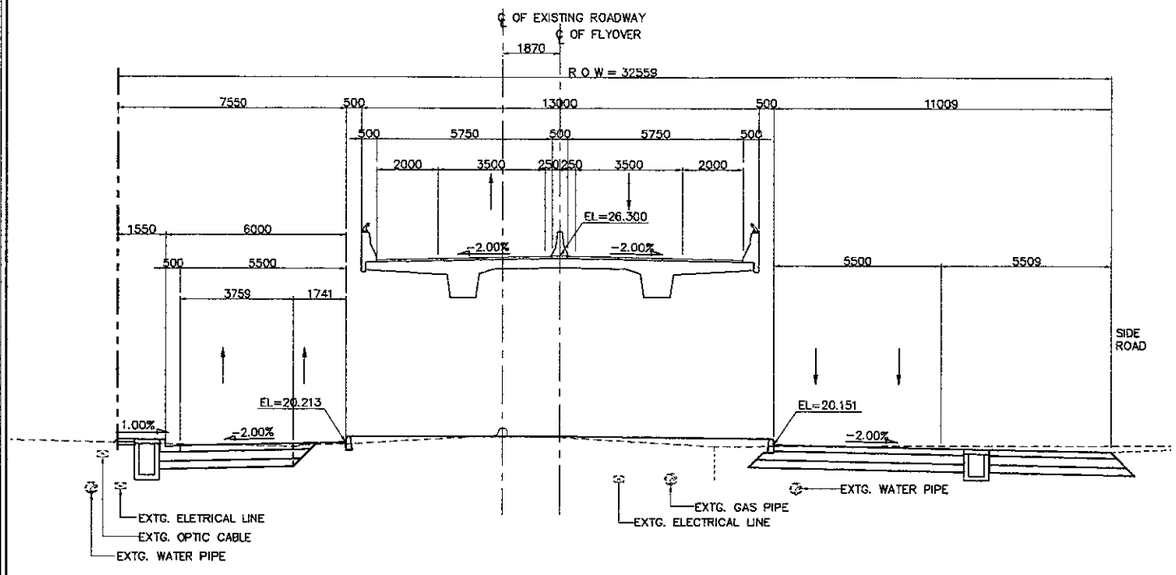


3 - SECTION (STA. 0 + 340.000)
SCALE 1:200

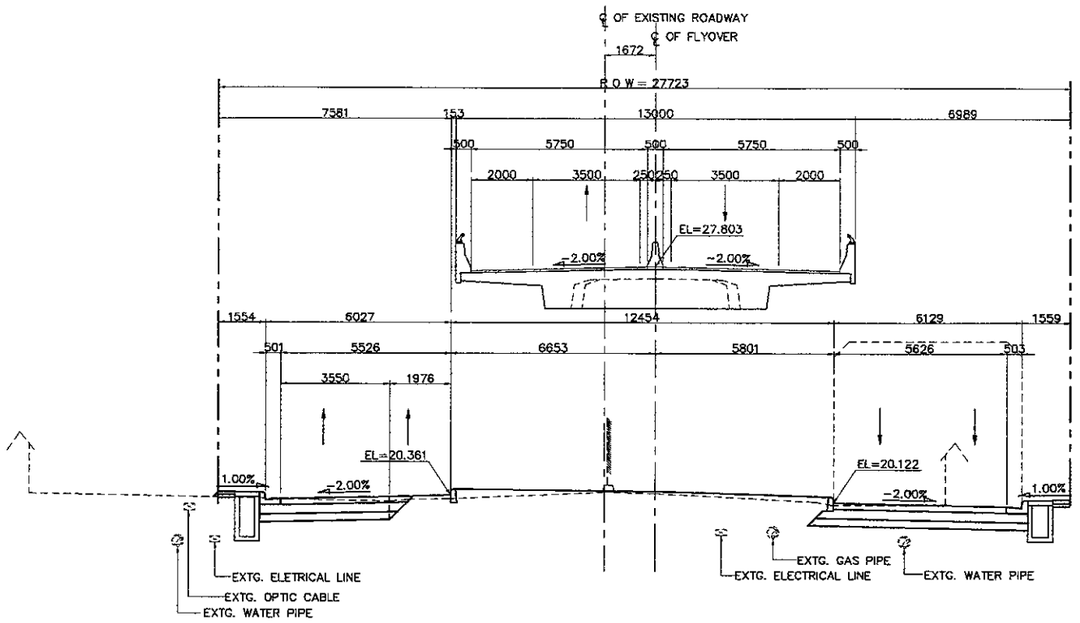
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

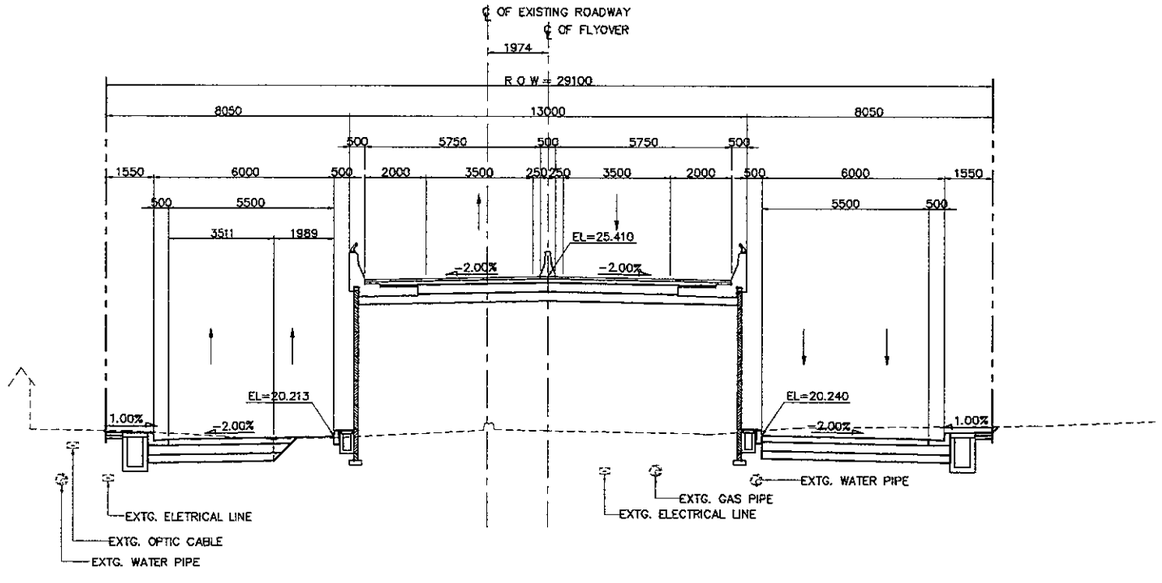
JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS		PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 380.000 - STA. 0 + 440.000 (5 OF 11)	DRAWING NO : BRD-029 SHEET NO : 29 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY	Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	Sign Date		
	Date		Date		Date						



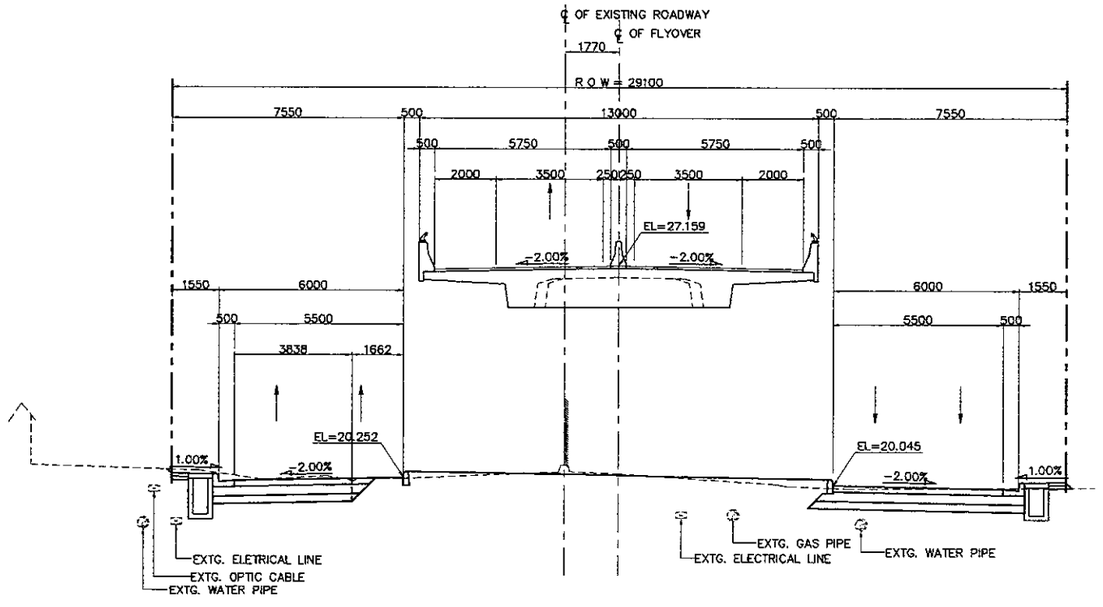
2 - SECTION (STA. 0 + 400.000)
SCALE 1:200



4 - SECTION (STA. 0 + 440.000)
SCALE 1:200



1 - SECTION (STA. 0 + 380.000)
SCALE 1:200

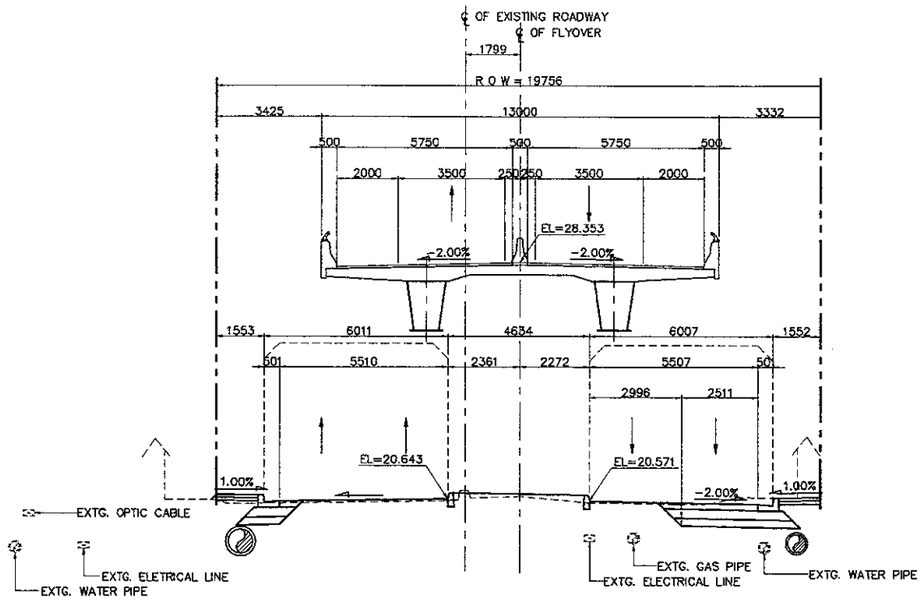


3 - SECTION (STA. 0 + 420.000)
SCALE 1:200

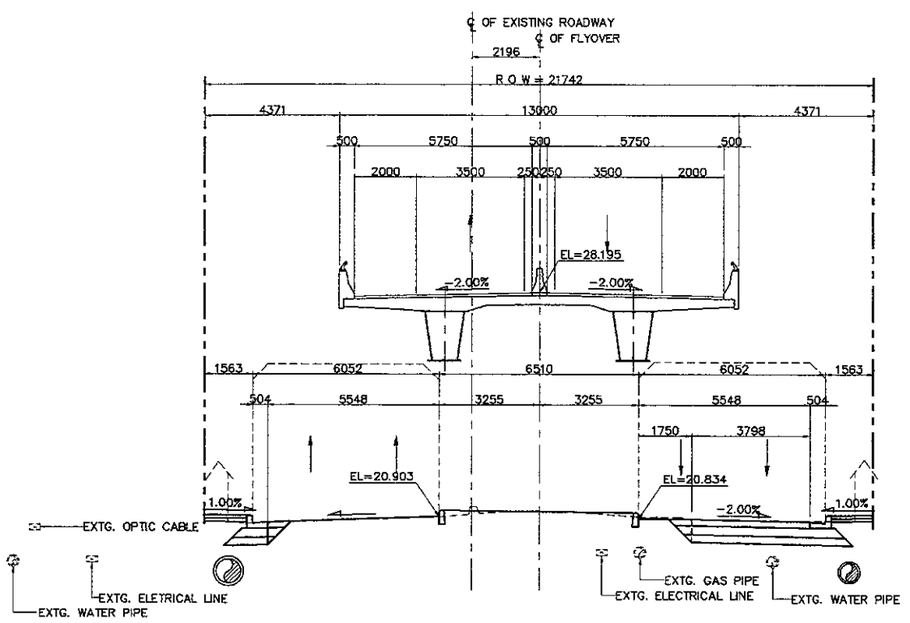
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

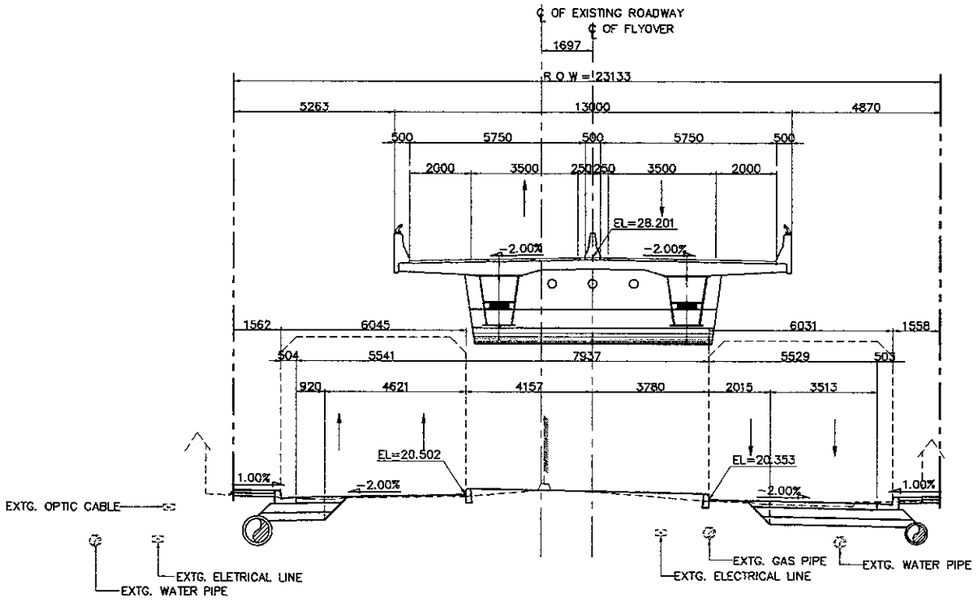
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 460.000 - STA. 0 + 520.000 (6 OF 11)	DRAWING NO : BRD-030 SHEET NO : 30 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				
	Date		Date		Date		Sign / Date				



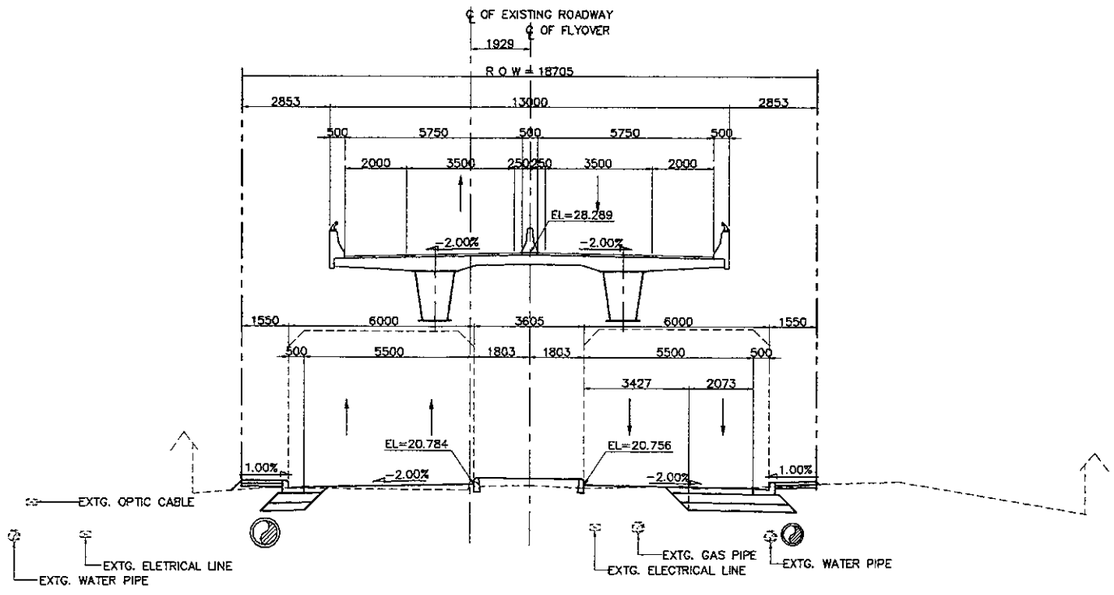
2 - SECTION (STA. 0 + 480.000)
SCALE 1:200



4 - SECTION (STA. 0 + 520.000)
SCALE 1:200



1 - SECTION (STA. 0 + 460.000)
SCALE 1:200



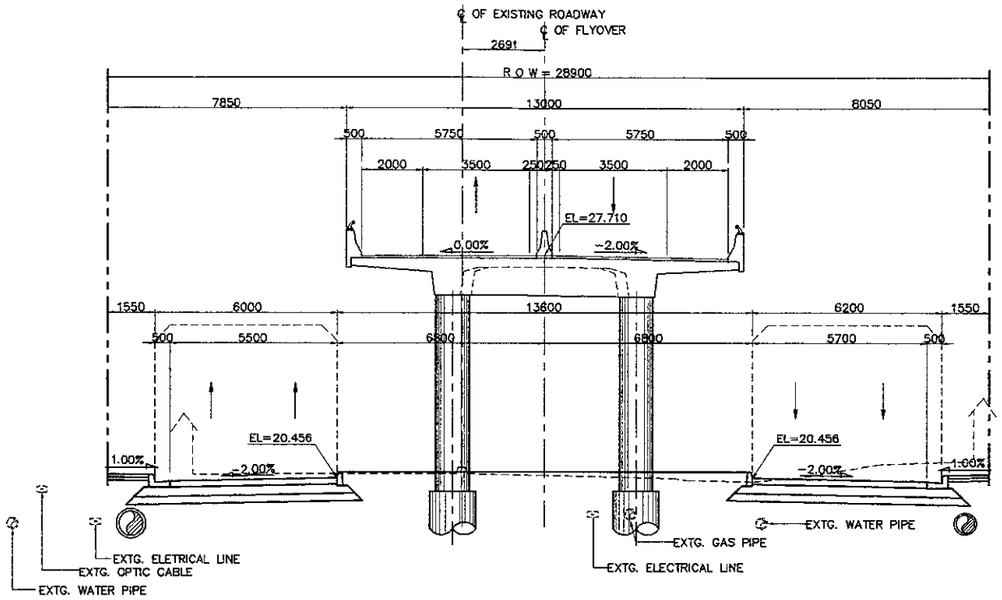
3 - SECTION (STA. 0 + 500.000)
SCALE 1:200

NOTES:

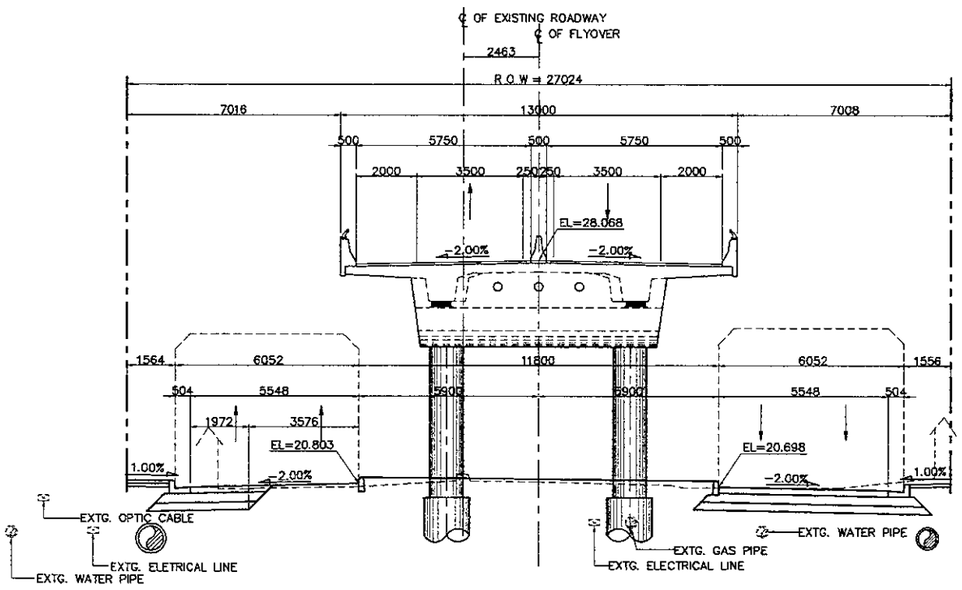
1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI	
	Sign		Sign		Sign		APPROVED BY: Ir. HERRY VAZA M,Eng.Sc (Sign) — NIP. : 110038400 (Date)
	Date		Date		Date		

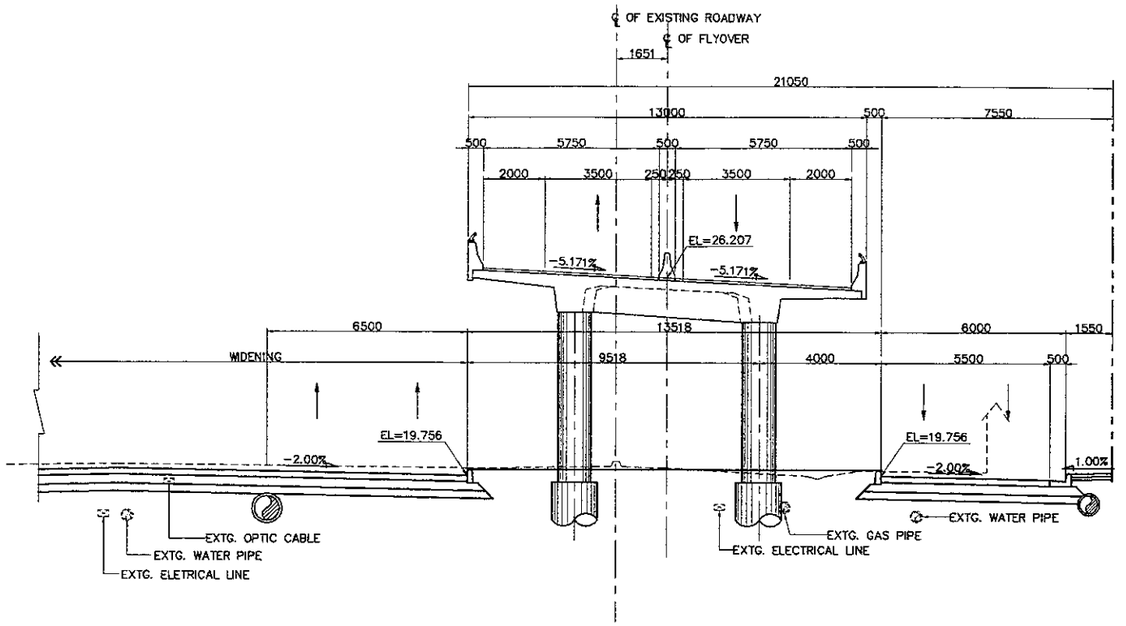
PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 200 FULL SIZE A3	CROSS SECTION STA. 0 + 540.000 - STA. 0 + 600.000 (7 OF 11)	BRD-031 SHEET NO : 31 / 56



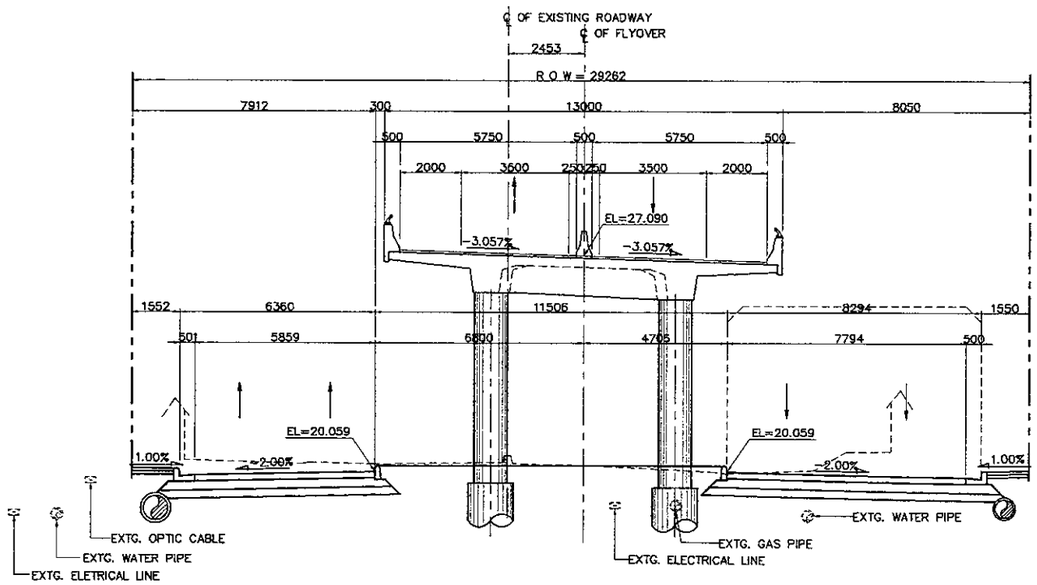
2 - SECTION (STA. 0 + 560.000)
SCALE 1:200



1 - SECTION (STA. 0 + 540.000)
SCALE 1:200



4 - SECTION (STA. 0 + 600.000)
SCALE 1:200

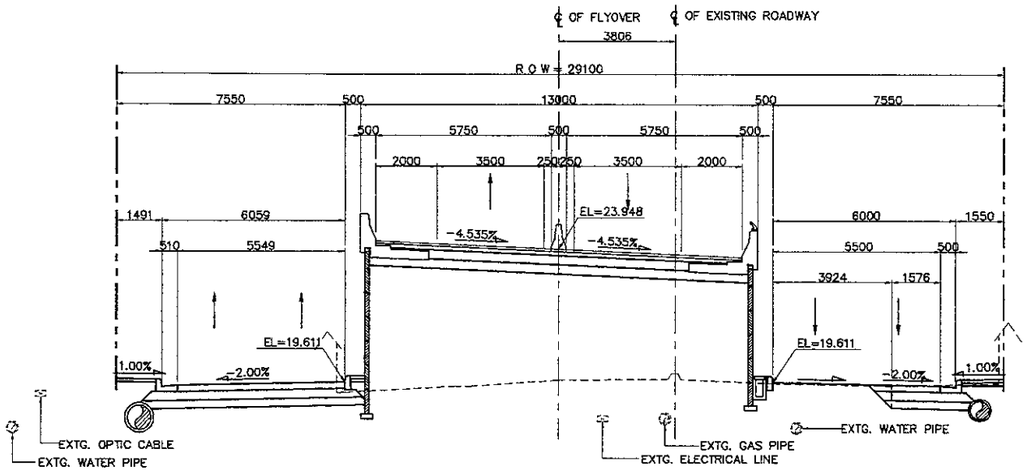


3 - SECTION (STA. 0 + 580.000)
SCALE 1:200

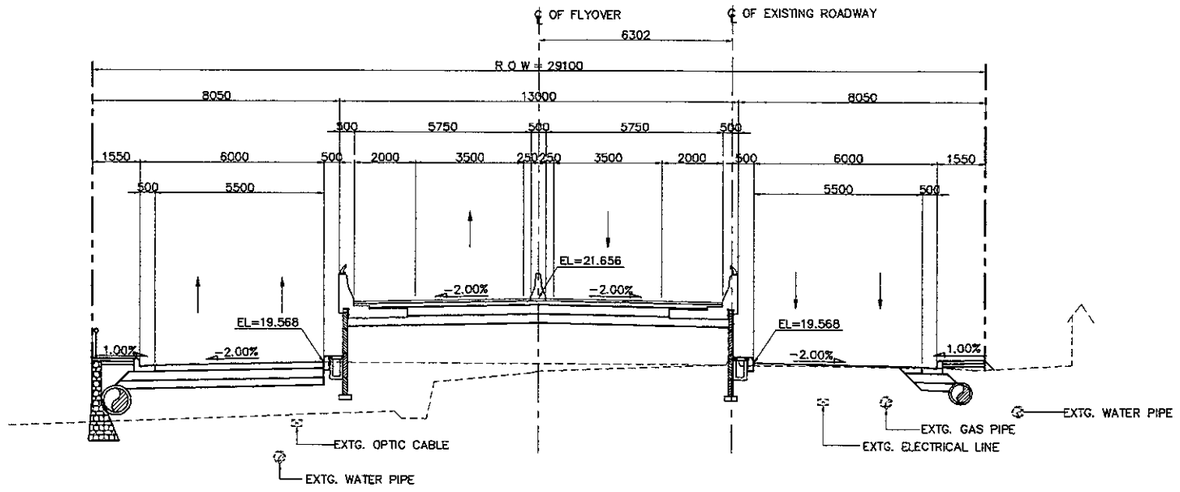
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

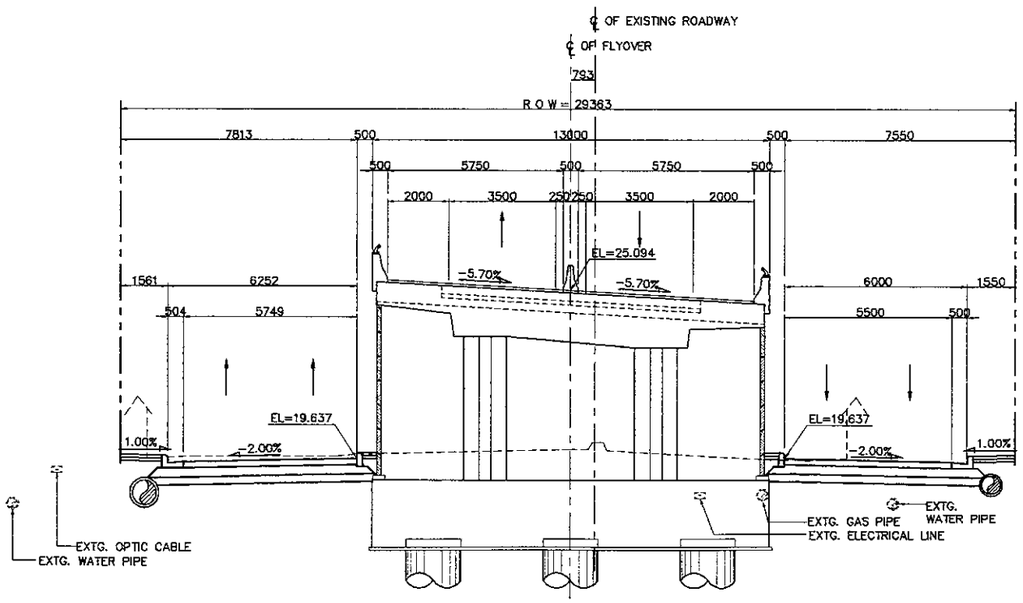
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 620.000 - STA. 0 + 680.000 (8 OF 11)	DRAWING NO : BRD-032 SHEET NO : 32 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				



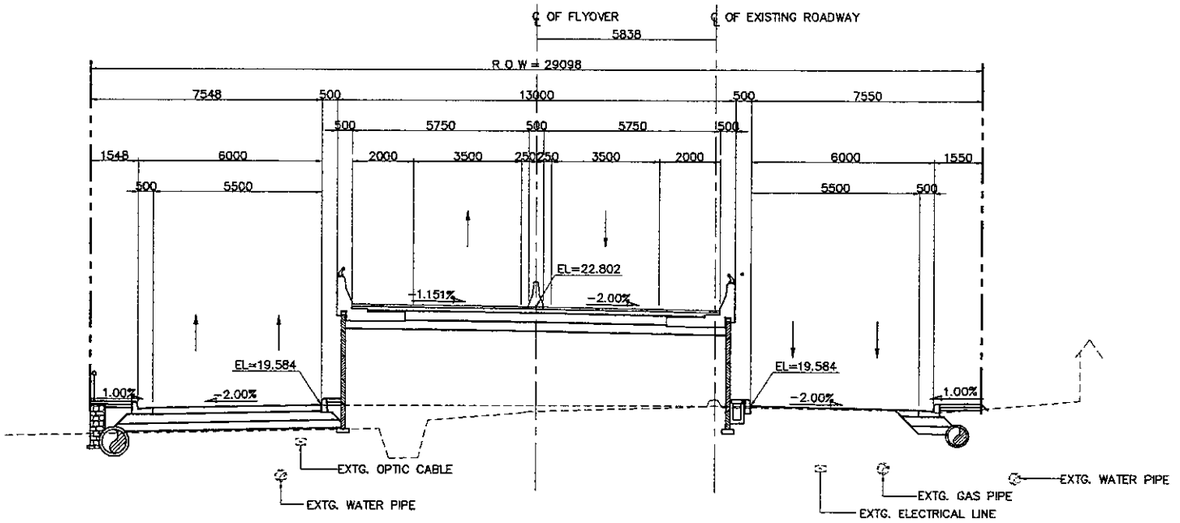
2 - SECTION (STA. 0 + 640.000)
SCALE 1:200



4 - SECTION (STA. 0 + 680.000)
SCALE 1:200



1 - SECTION (STA. 0 + 620.000)
SCALE 1:200

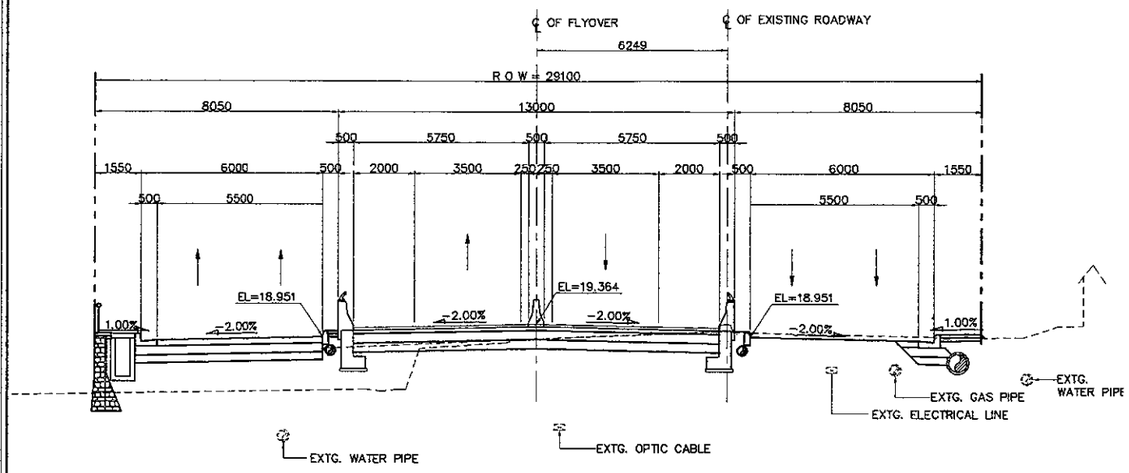


3 - SECTION (STA. 0 + 660.000)
SCALE 1:200

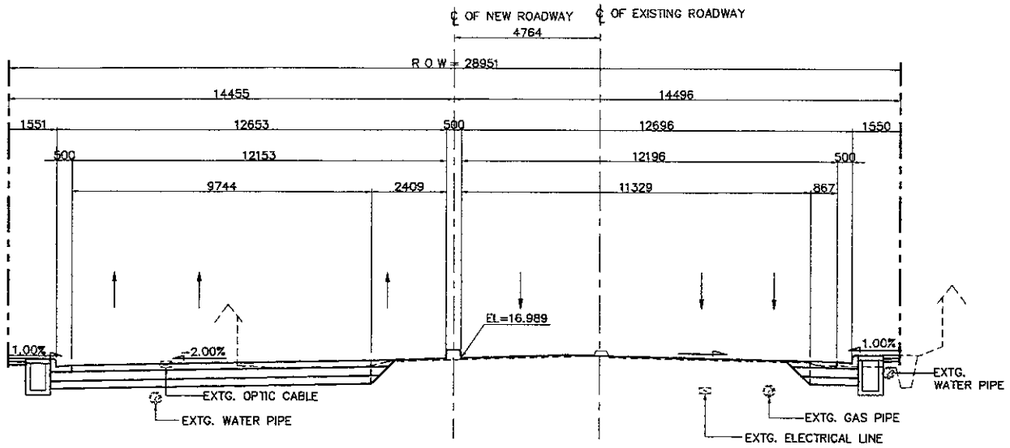
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

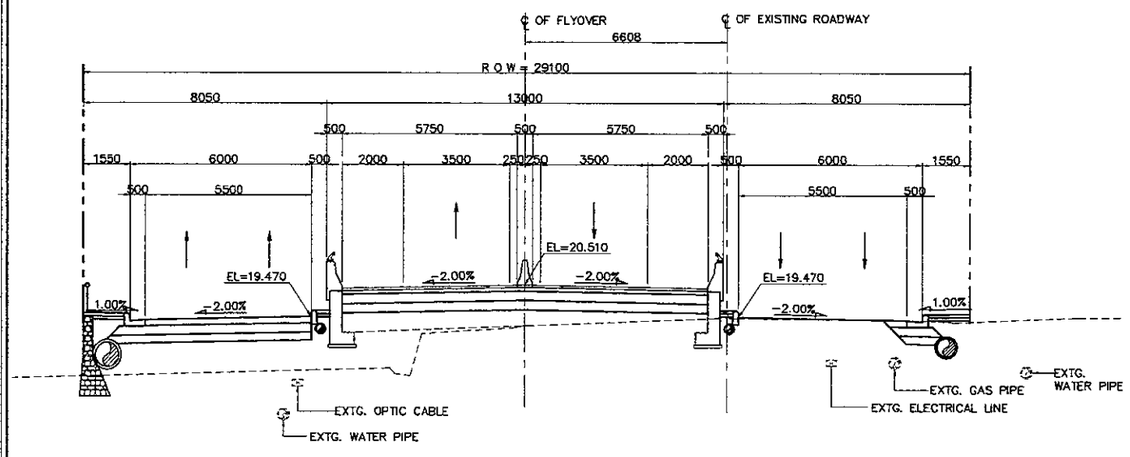
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 700.000 - STA. 0 + 760.000 (9 OF 11)	DRAWING NO : BRD-033 SHEET NO : 33 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY : Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				



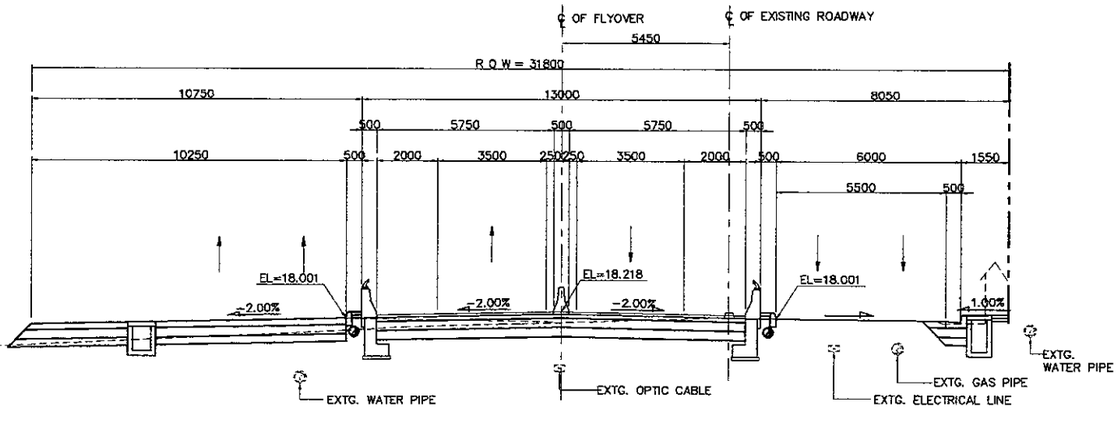
2 - SECTION (STA. 0 + 720.000)
SCALE 1:200



4 - SECTION (STA. 0 + 760.000)
SCALE 1:200



1 - SECTION (STA. 0 + 700.000)
SCALE 1:200

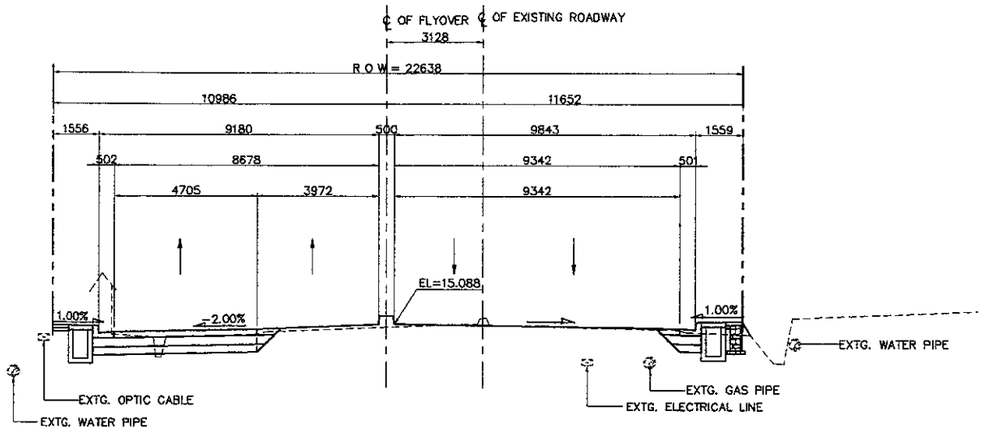


3 - SECTION (STA. 0 + 740.000)
SCALE 1:200

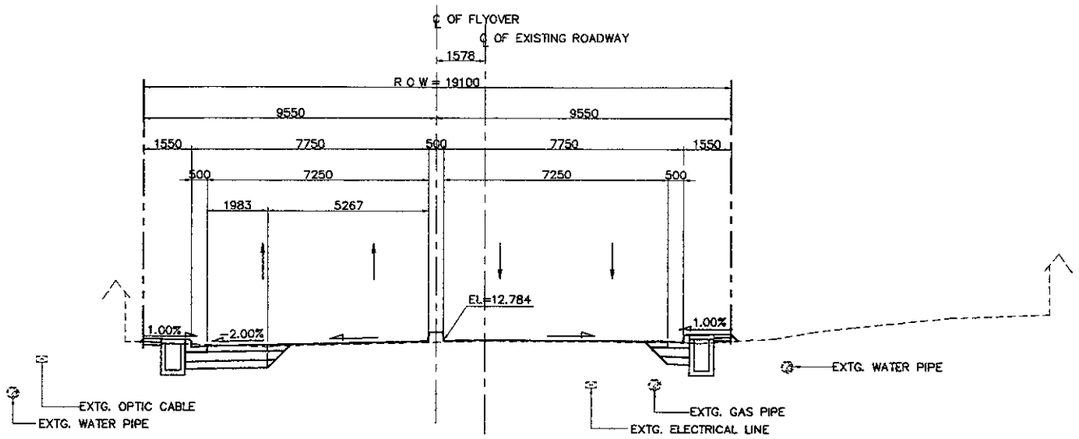
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

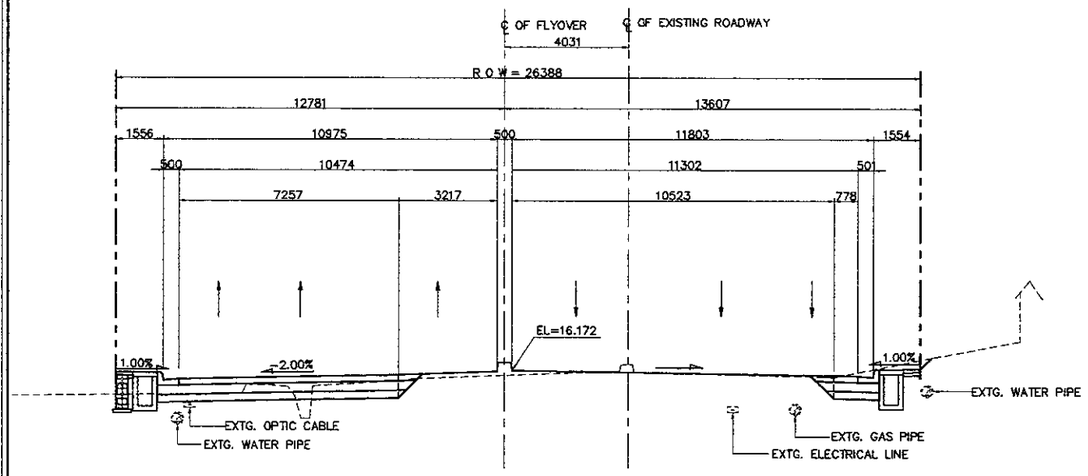
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 780.000 - STA. 0 + 840.000 (10 OF 11)	DRAWING NO : BRD-034 SHEET NO : 34 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110036400 Sign Date				



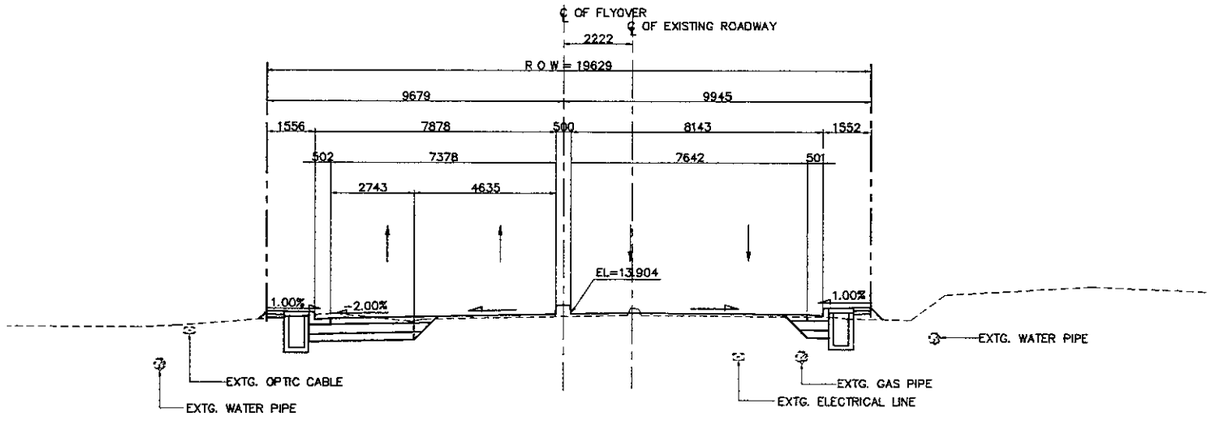
2 - SECTION (STA. 0 + 800.000)
SCALE 1:200



4 - SECTION (STA. 0 + 840.000)
SCALE 1:200



1 - SECTION (STA. 0 + 780.000)
SCALE 1:200

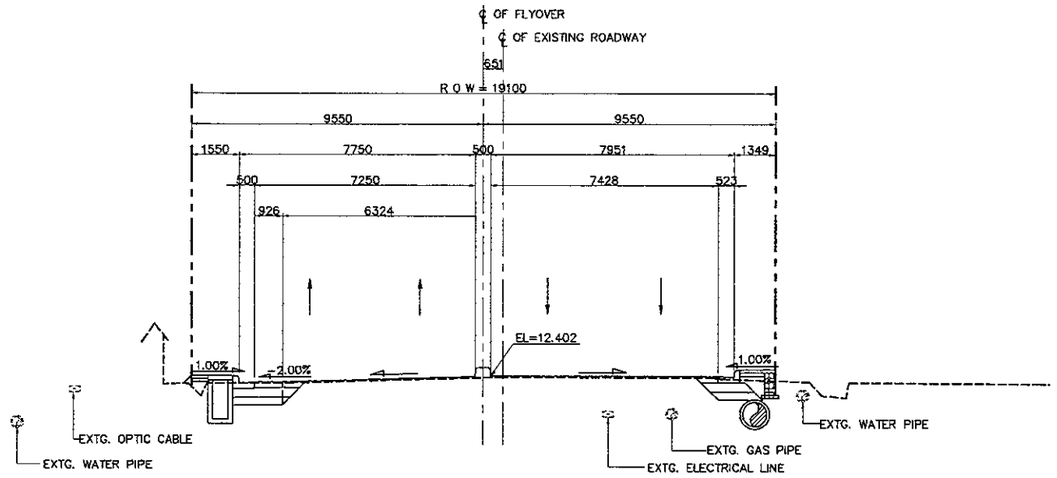


3 - SECTION (STA. 0 + 820.000)
SCALE 1:200

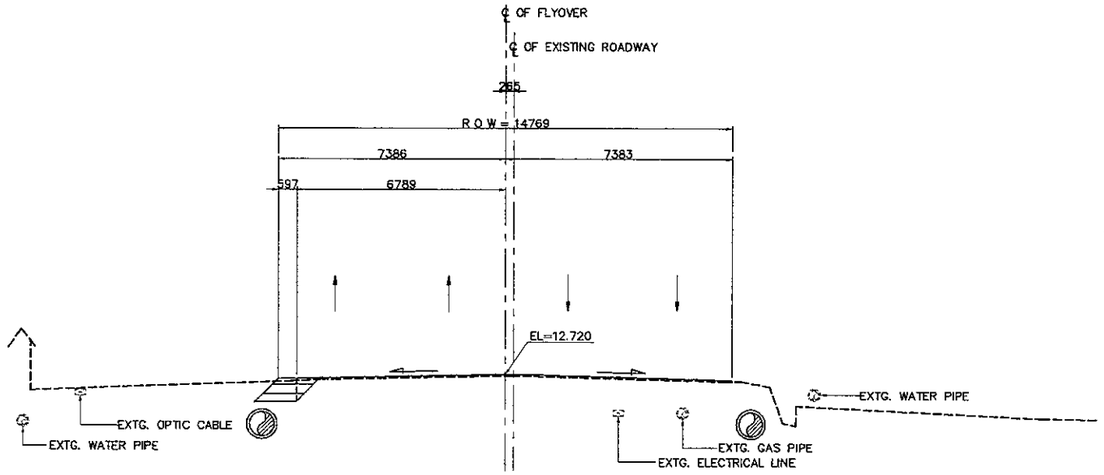
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

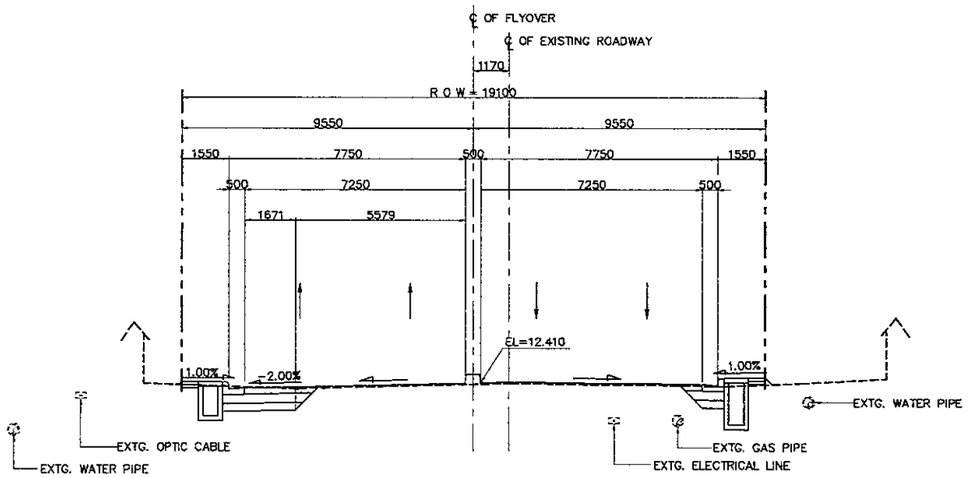
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION STA. 0 + 860.000 - STA. 0 + 900.000 (11 OF 11)	DRAWING NO : BRD-035 SHEET NO : 35 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign						
	Date		Date		Date		APPROVED BY Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign Date				



2 - SECTION (STA. 0 + 880.000)
SCALE 1:200



3 - SECTION (STA. 0 + 900.000)
SCALE 1:200

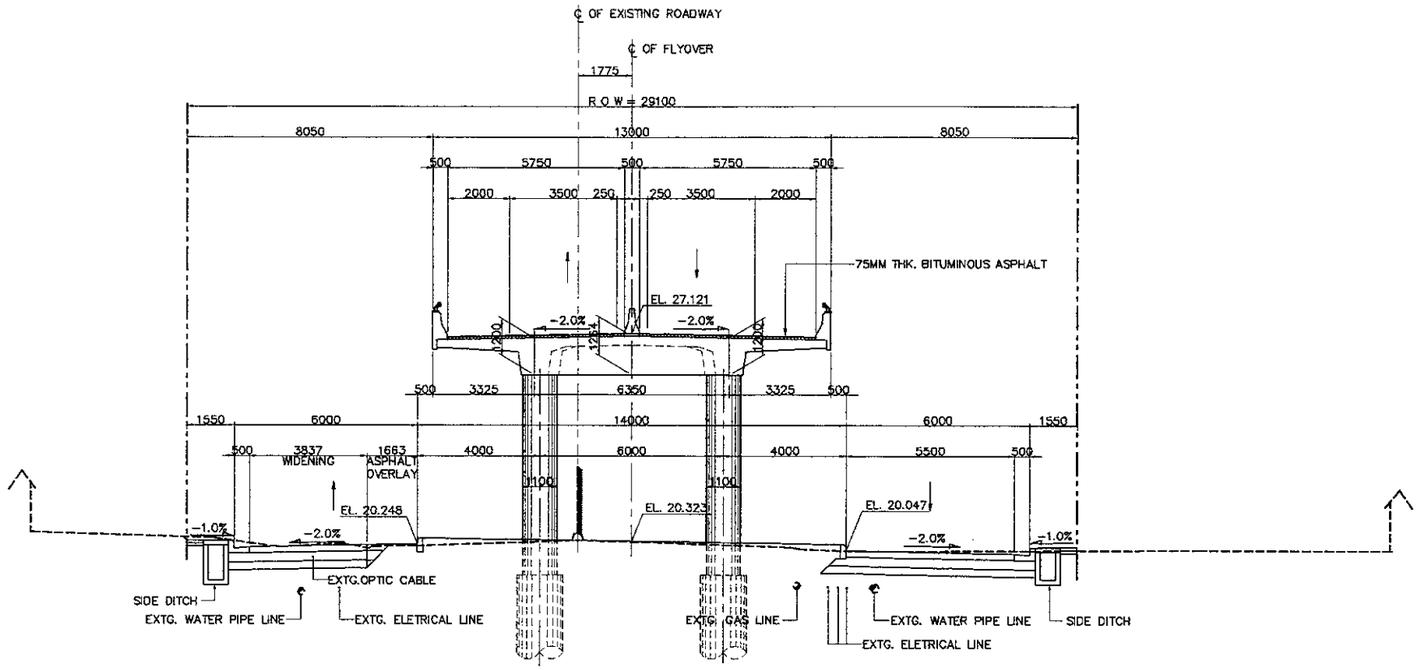


1 - SECTION (STA. 0 + 860.000)
SCALE 1:200

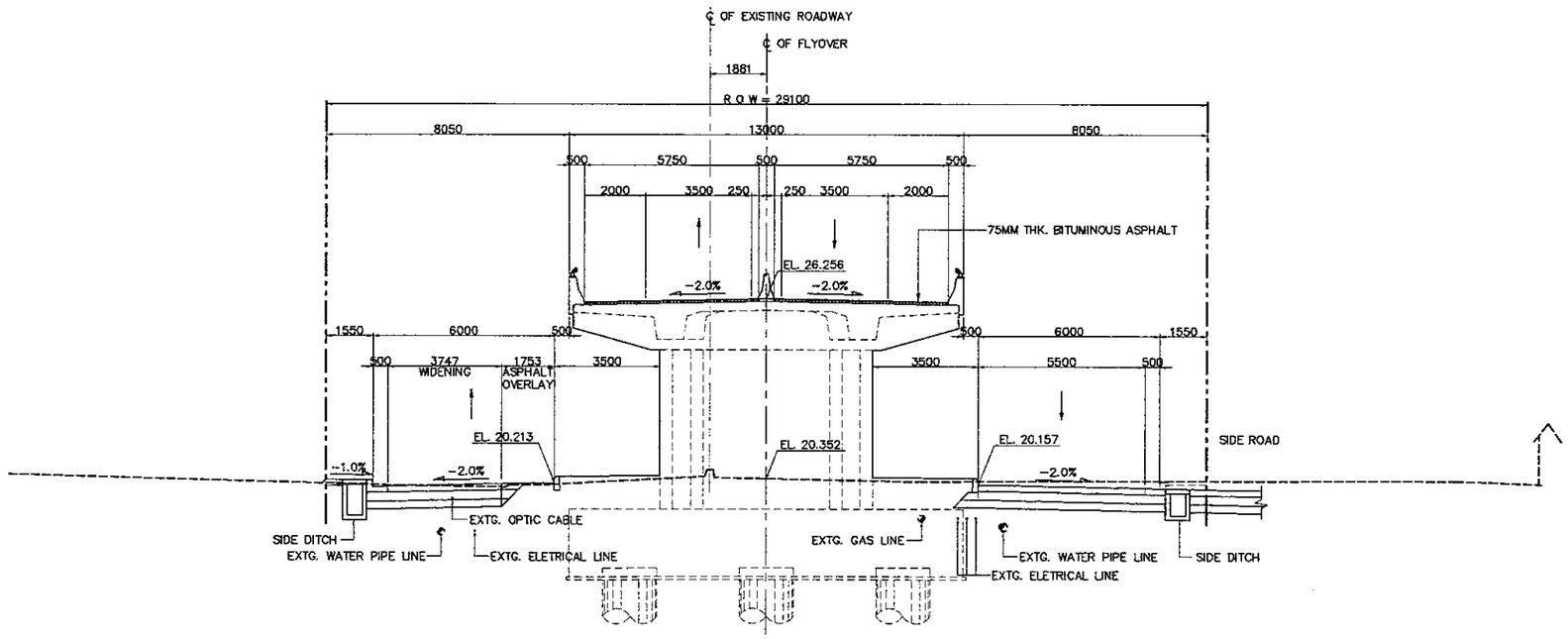
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION AT ABUTMENT AND PIER LOCATION (1 OF 6)	DRAWING NO : BRD-036 SHEET NO : 36 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign / Date				
	Date		Date		Date						



2 - P1 SECTION (STA. 0 + 419.00)
SCALE 1:200

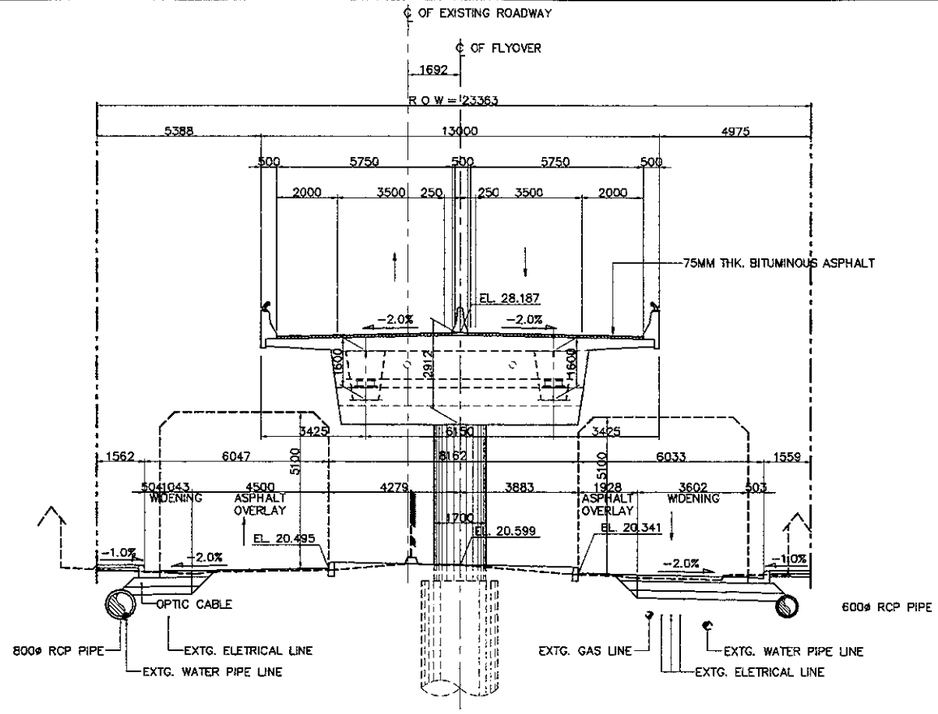


1 - A1 SECTION (STA. 0 + 399.00)
SCALE 1:200

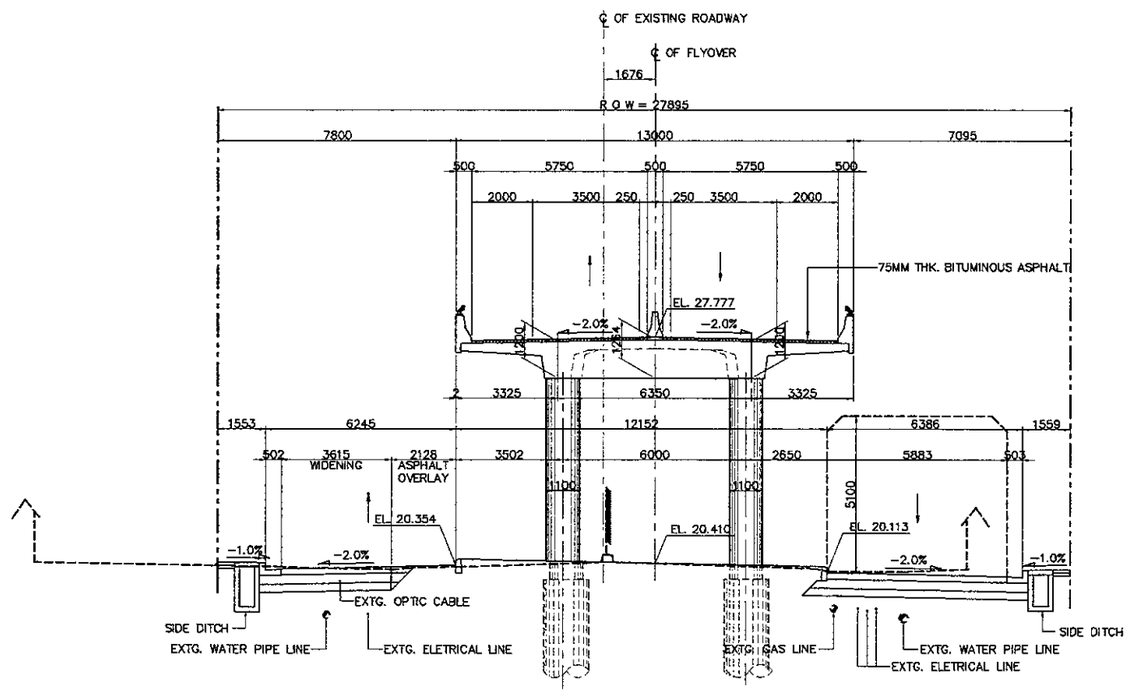
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION AT ABUTMENT AND PIER LOCATION (2 OF 6)	DRAWING NO : BRD-037 SHEET NO : 37 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY Ir. HERRY VAZA M,Eng.Sc				
	Date		Date		Date		NIP. : 110038400	Sign / Date			



2 P3 SECTION (STA. 0 + 459.00)
1:200

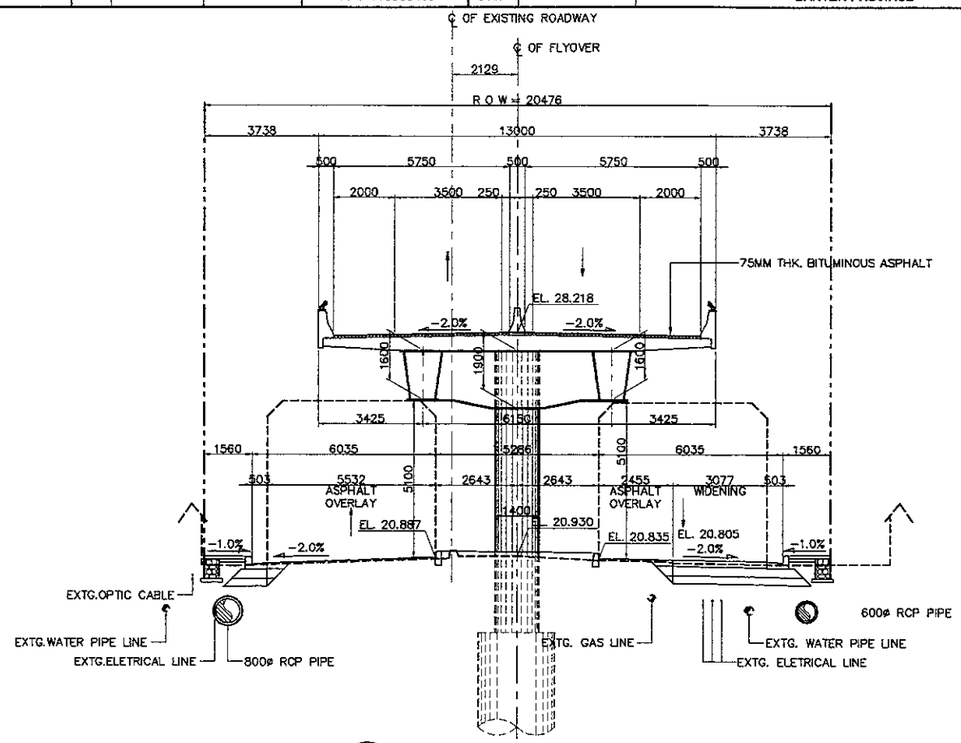


1 P2 SECTION (STA. 0 + 439.00)
SCALE 1:200

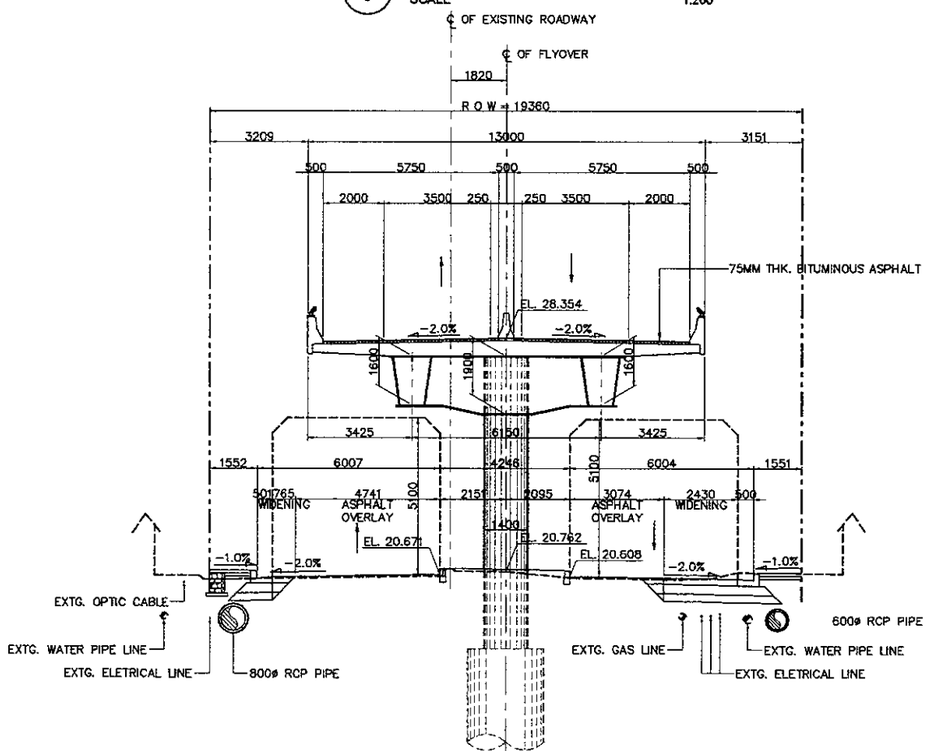
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION AT ABUTMENT AND PIER LOCATION (3 OF 6)	DRAWING NO : BRD-038 SHEET NO : 38 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign / Date				
	Date		Date		Date						



2 - P5 SECTION (STA. 0 + 515.00)
SCALE 1:200

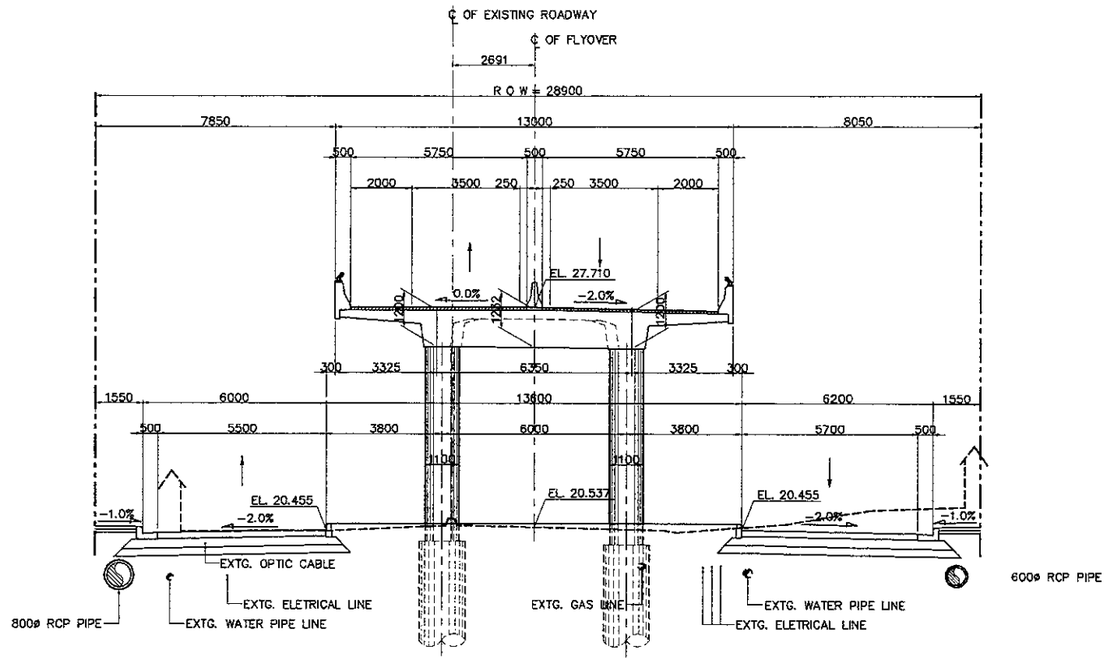


1 - P4 SECTION (STA. 0 + 484.00)
SCALE 1:200

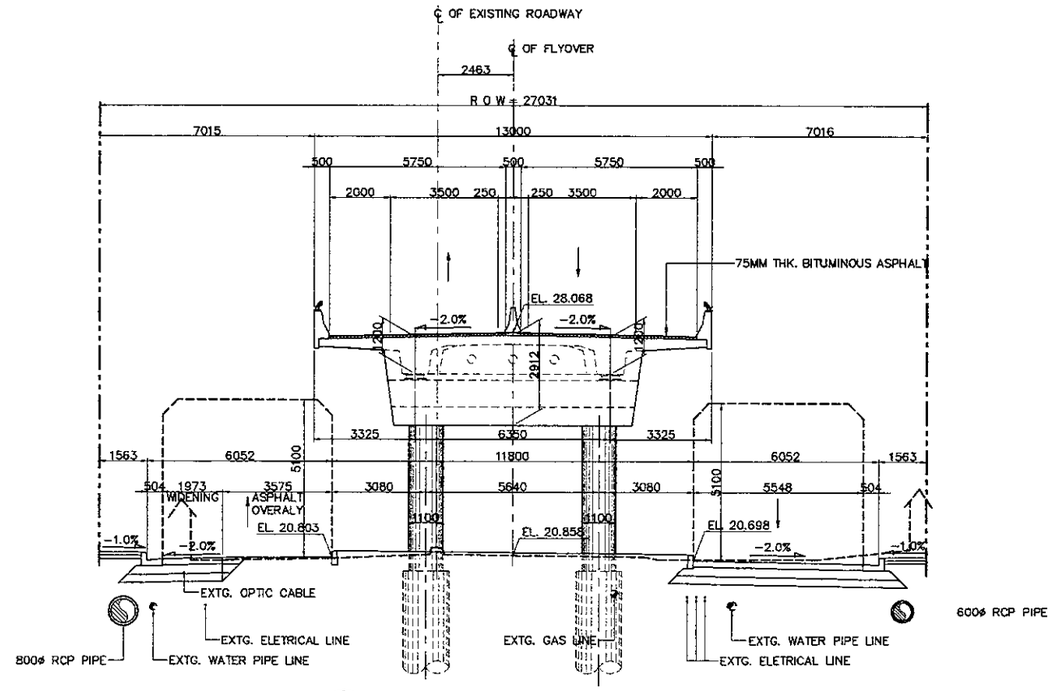
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS		PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI			DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 200 FULL SIZE A3	CROSS SECTION AT ABUTMENT AND PIER LOCATION (4 OF 6)	BRD-039 SHEET NO : 39 / 56
	Sign		Sign		Sign		APPROVED BY : Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	Sign / Date				
	Date		Date		Date							



2 - P7 SECTION (STA. 0 + 560.00)
1:200

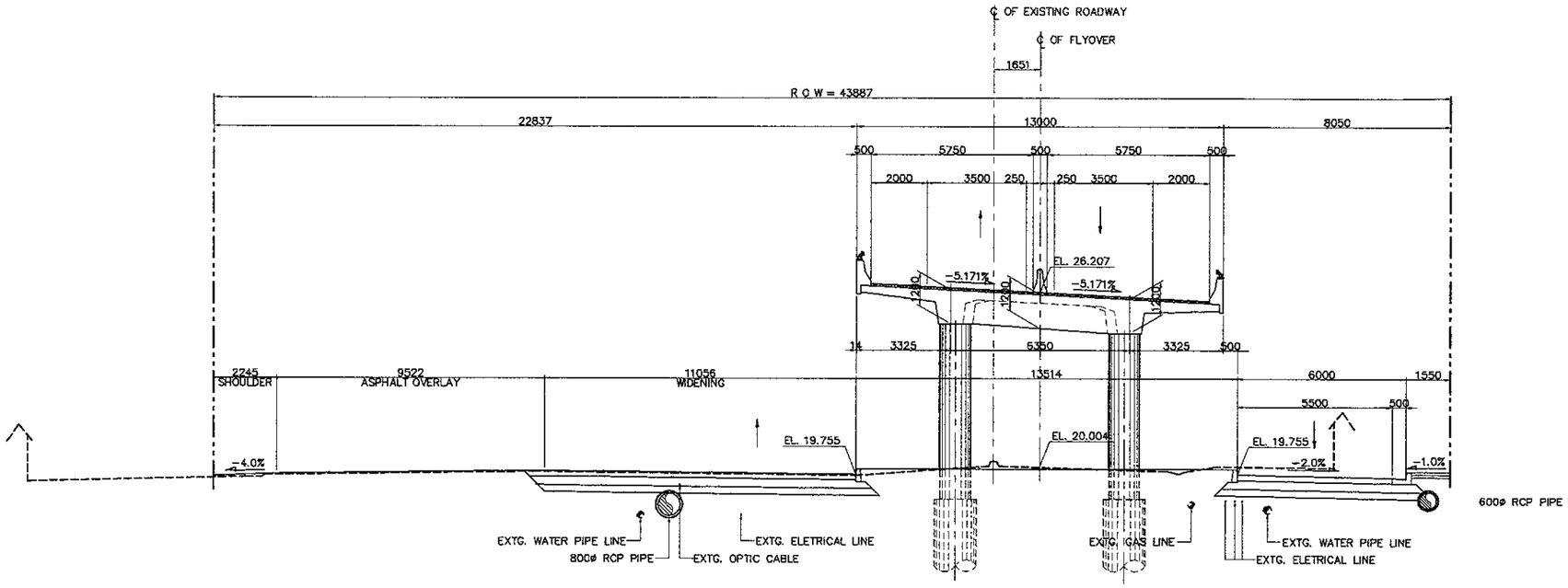


1 - P6 SECTION (STA. 0 + 540.00)
SCALE 1:200

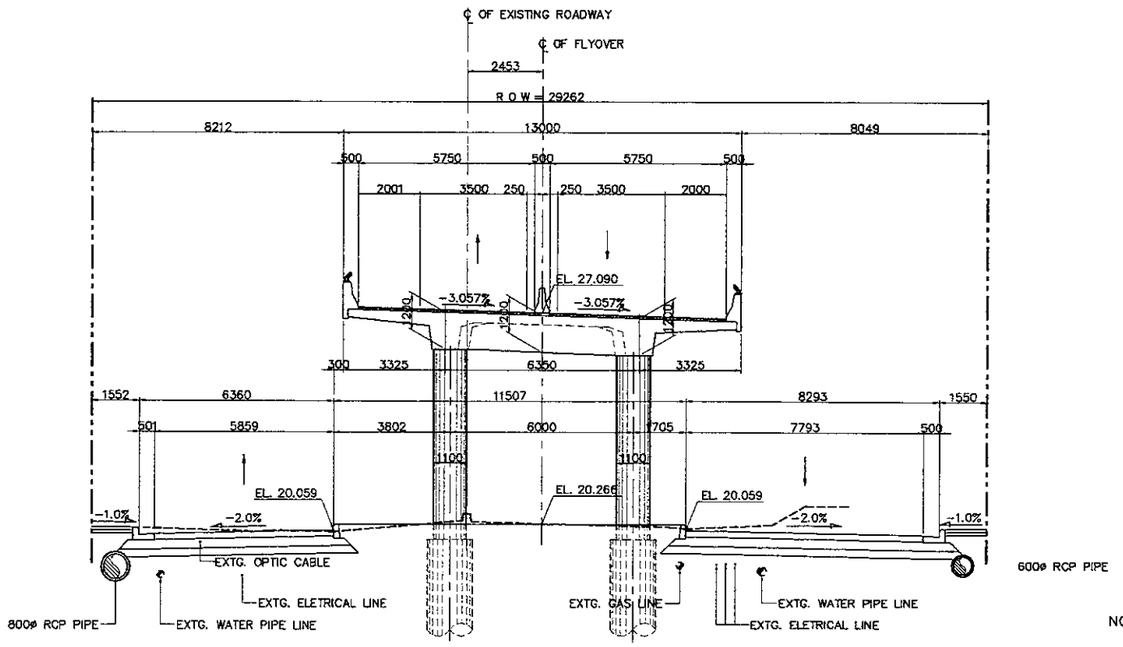
NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION : DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	SCALE : 1 : 200 FULL SIZE A3	DRAWING TITLE : CROSS SECTION AT ABUTMENT AND PIER LOCATION (5 OF 6)	DRAWING NO : BRD-040 SHEET NO : 40 / 56
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					
	Sign		Sign		Sign		APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				
	Date		Date		Date		Sign / Date				



2 - P9 SECTION (STA. 0 + 600.00)
SCALE 1:200



1 - P8 SECTION (STA. 0 + 580. 00)
SCALE 1:200

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. FOR LOCATION AND INVERT ELEVATIONS OF DRAINAGE SYSTEM (DITCH AND RCP) REFER TO DRAINAGE DRAWINGS.