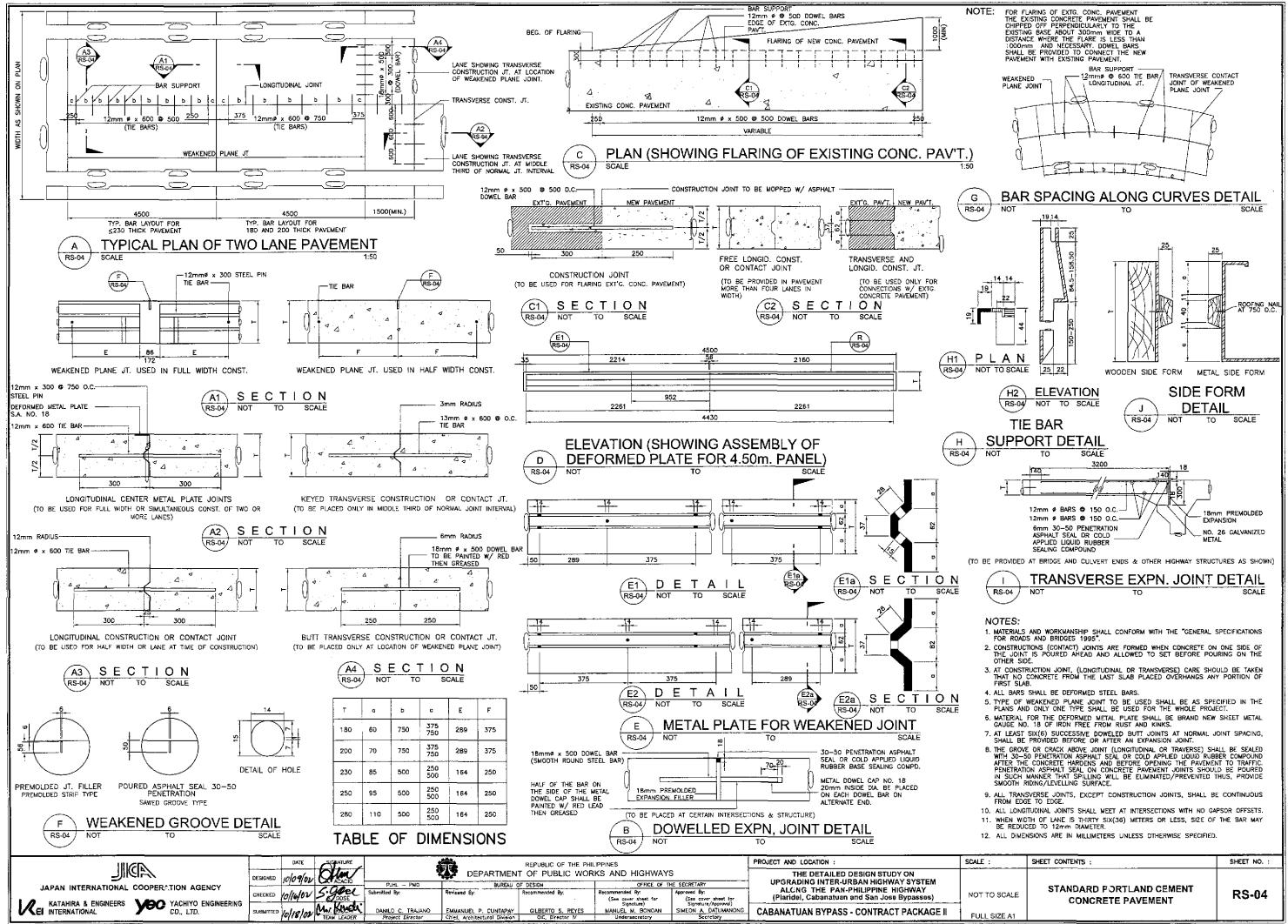
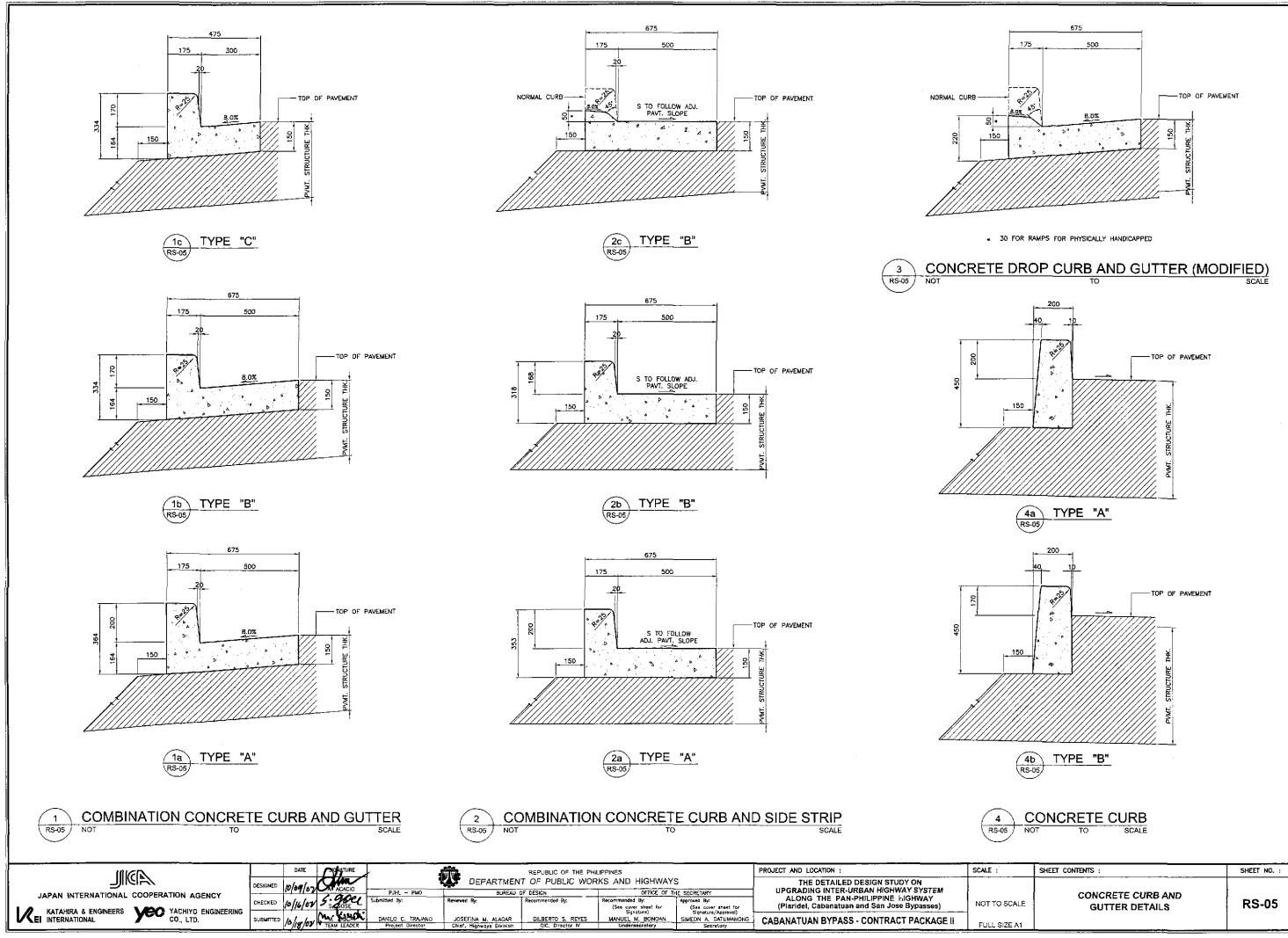
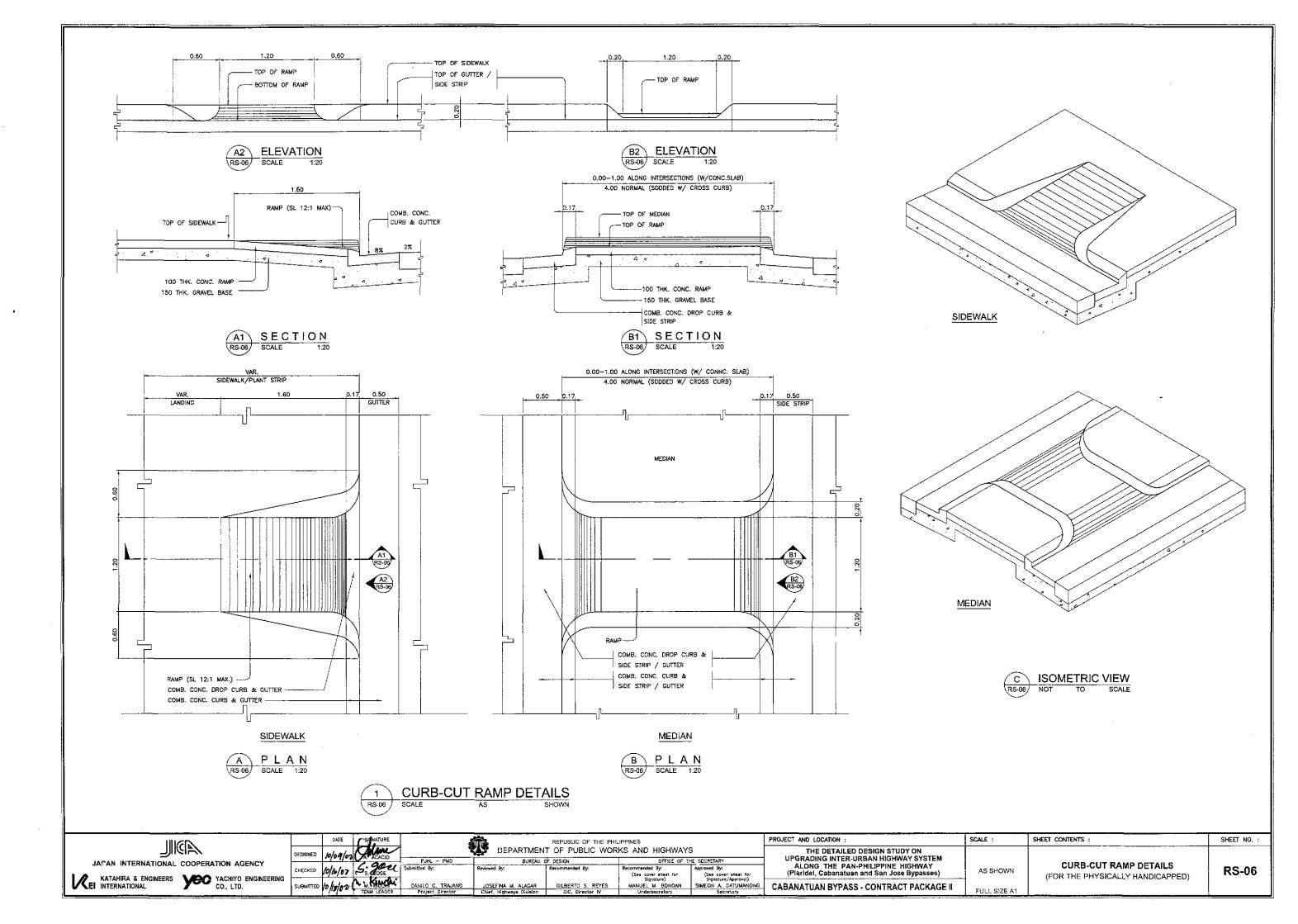


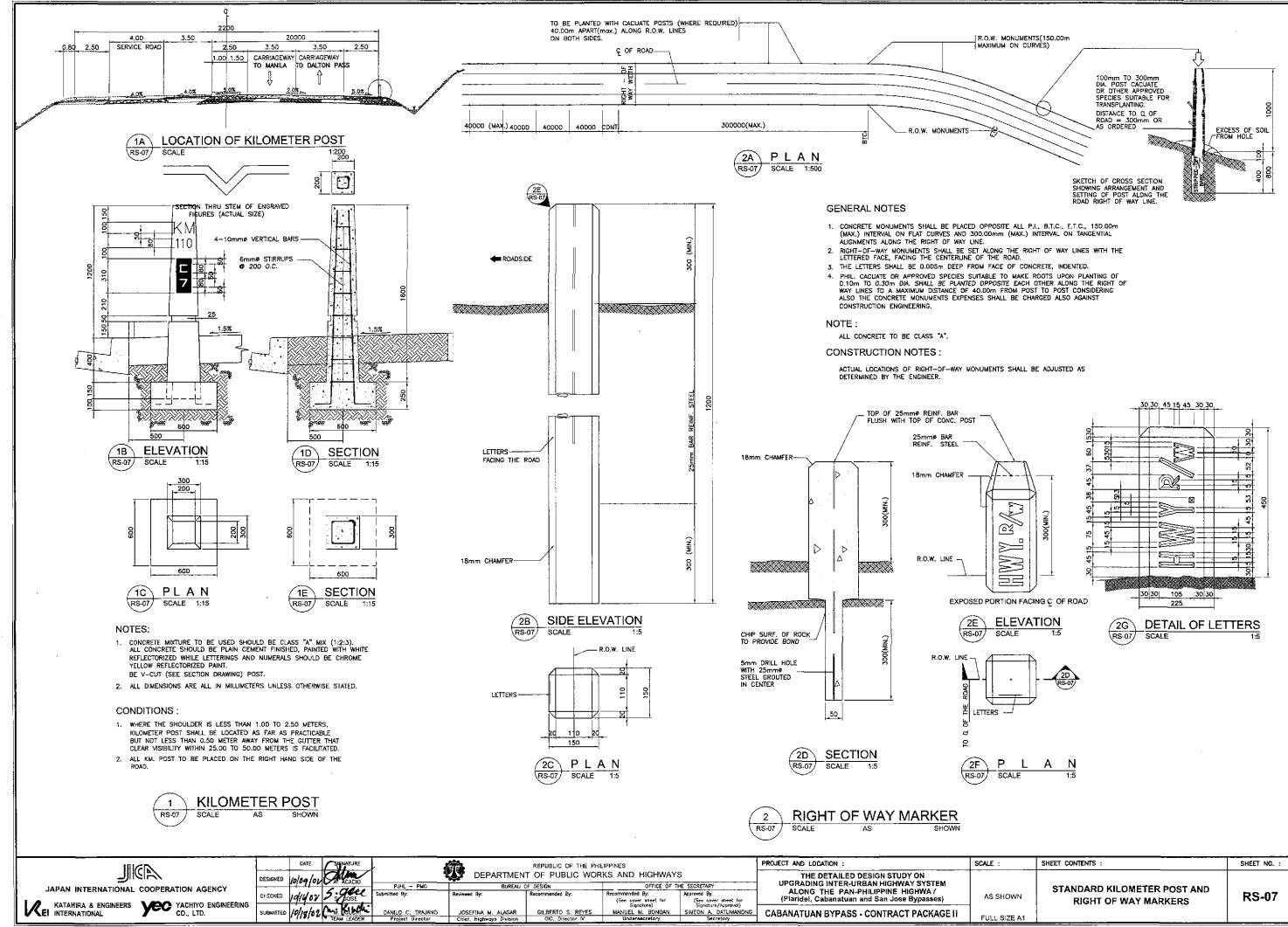
40 KPH	
sx≂ 0.070	
NC 0.003)	
NC 0.007)	
NC 0.010)	
RC I	
RC	
RC	
0.019) .022)	
0.024	
0.024 0.027 0.030 0.035	
0.035	
0.039	
0.047	
0.050	
0.054 0.057	
0.060	
0.062 0.065	
0.066	ł
0.068 0.069	
0.069	
0.070 0.070	
0.070	

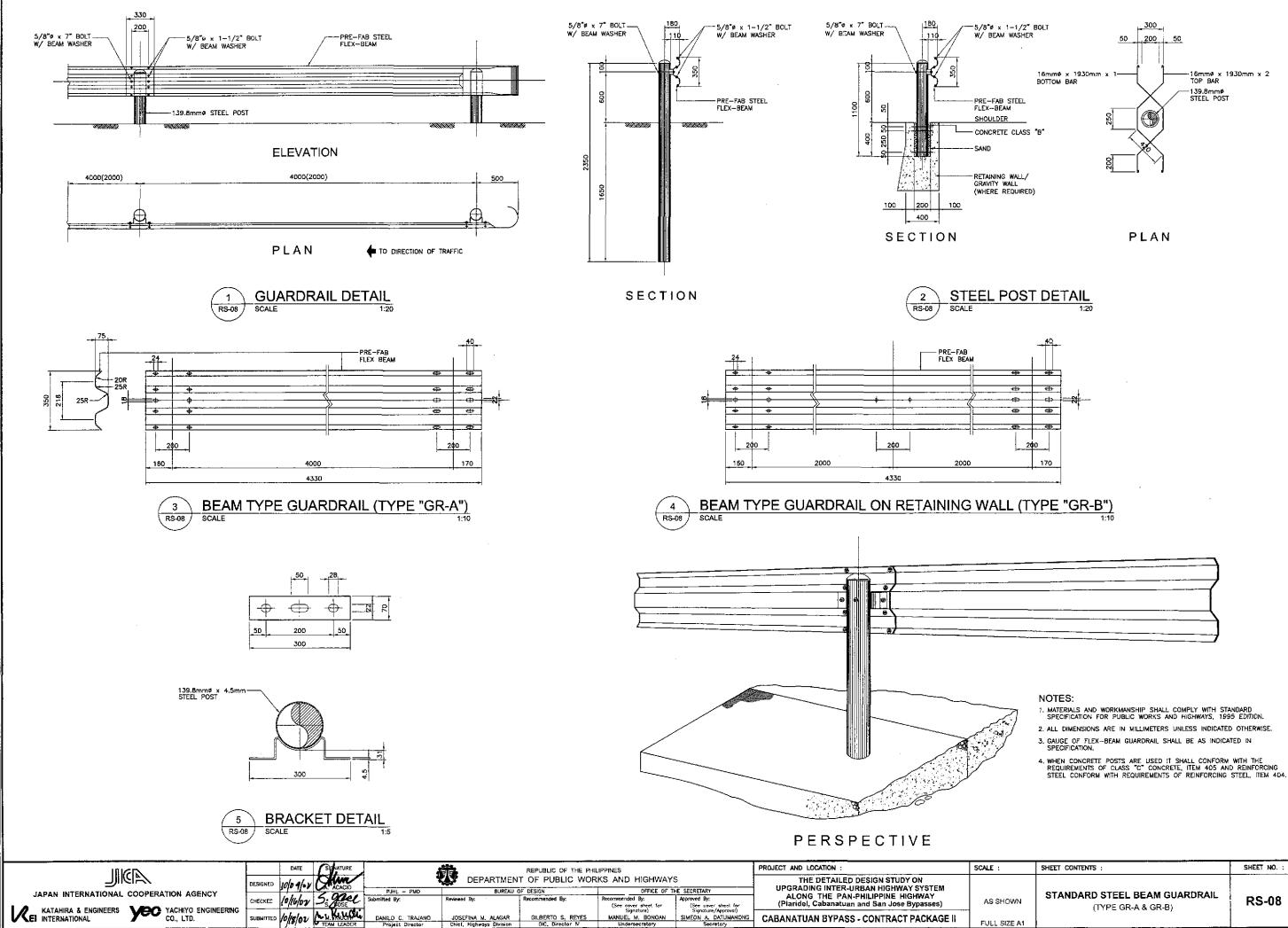
LE :	SHEET CONTENTS :	SHEET NO. :
OT TO SCALE	GEOMETRIC DESIGN STANDARD - 3 SUPERELEVATION ATTAINMENT/ DETAILS DIAGRAMATIC PROFILES/ SECTIONS	RS-03



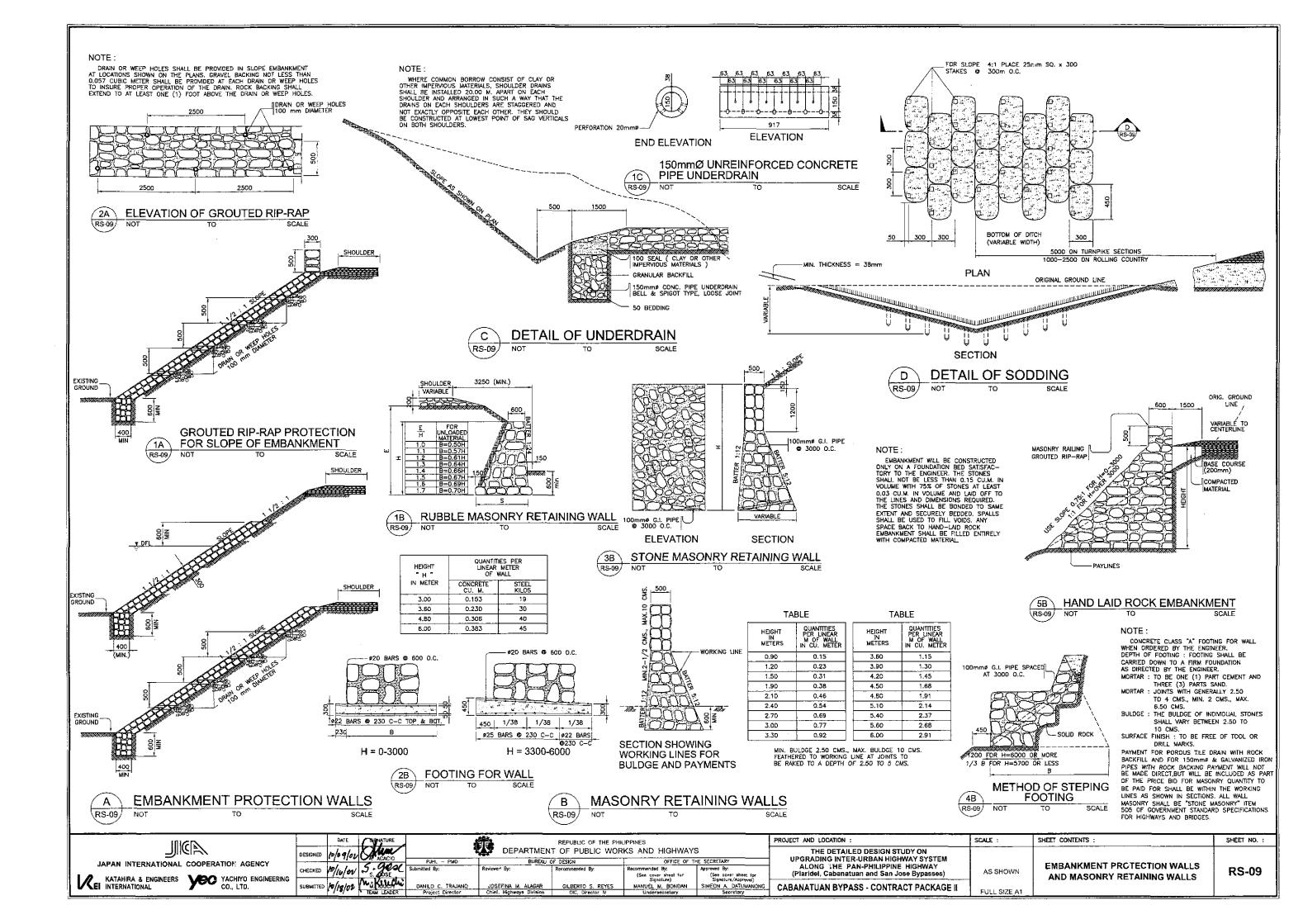


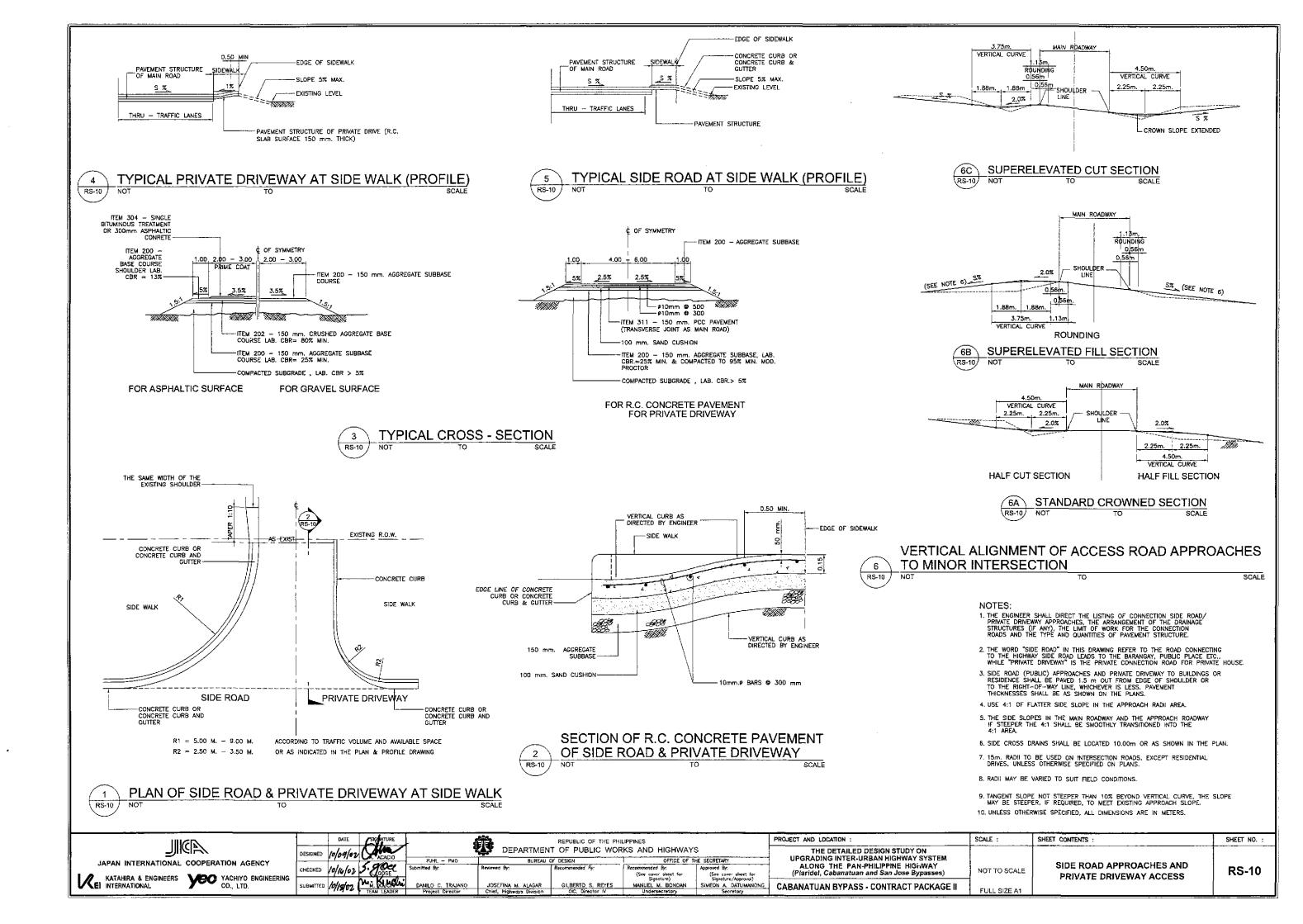


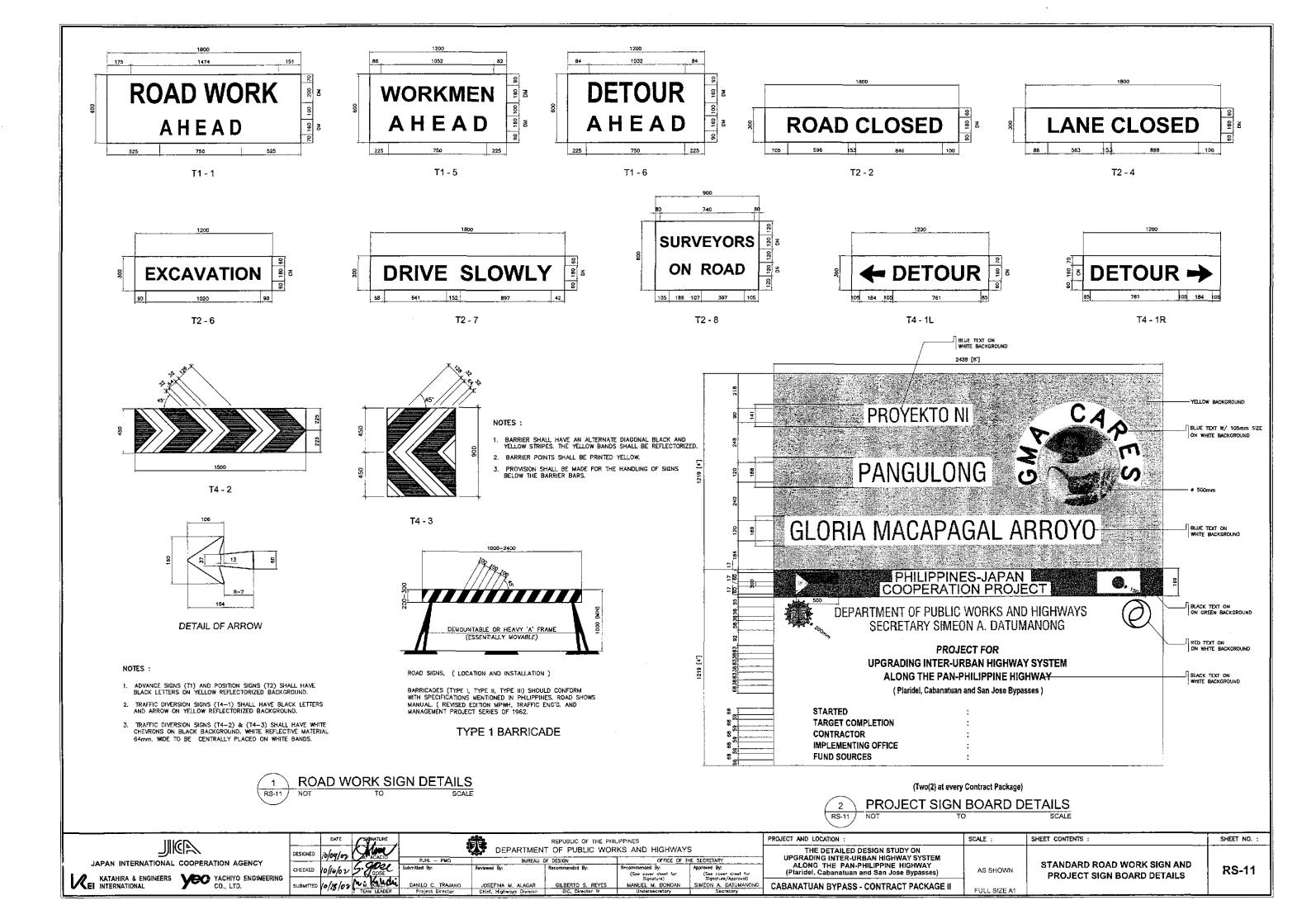


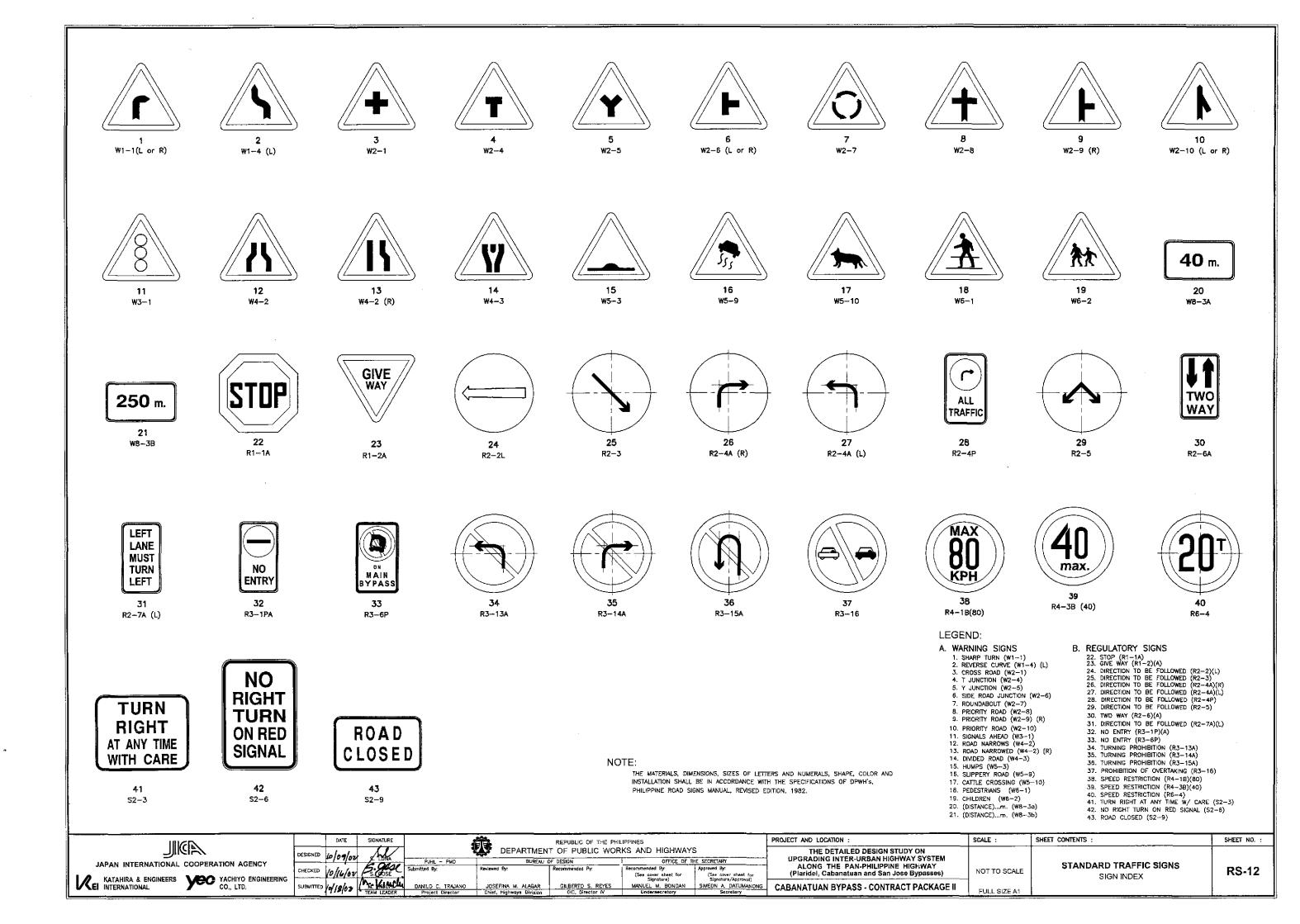


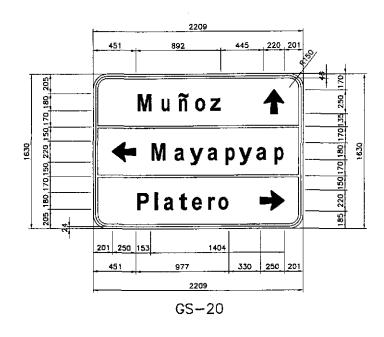
LE :	SHEET CONTENTS :	SHEET NO. :
AS SHOWN	STANDARD STEEL BEAM GUARDRAIL (TYPE GR-A & GR-B)	RS-08
JLL SIZE A1		

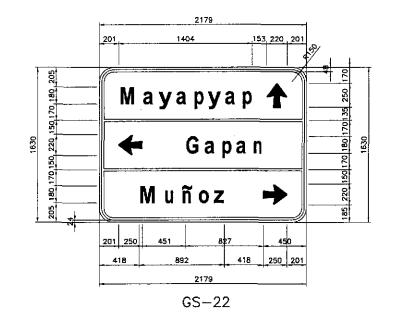


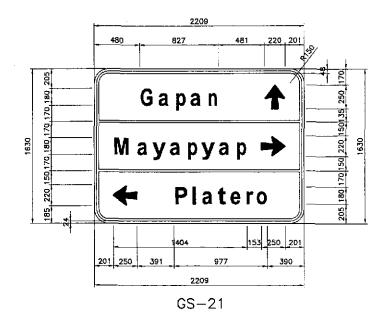


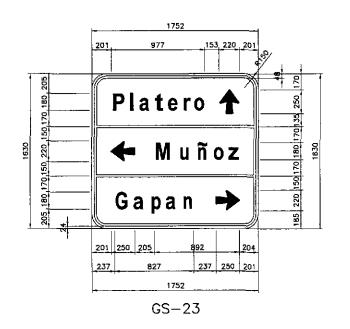




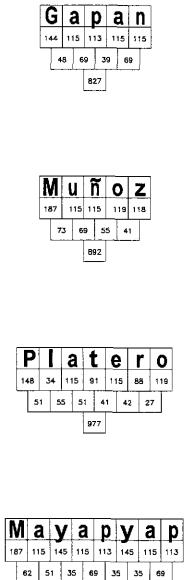


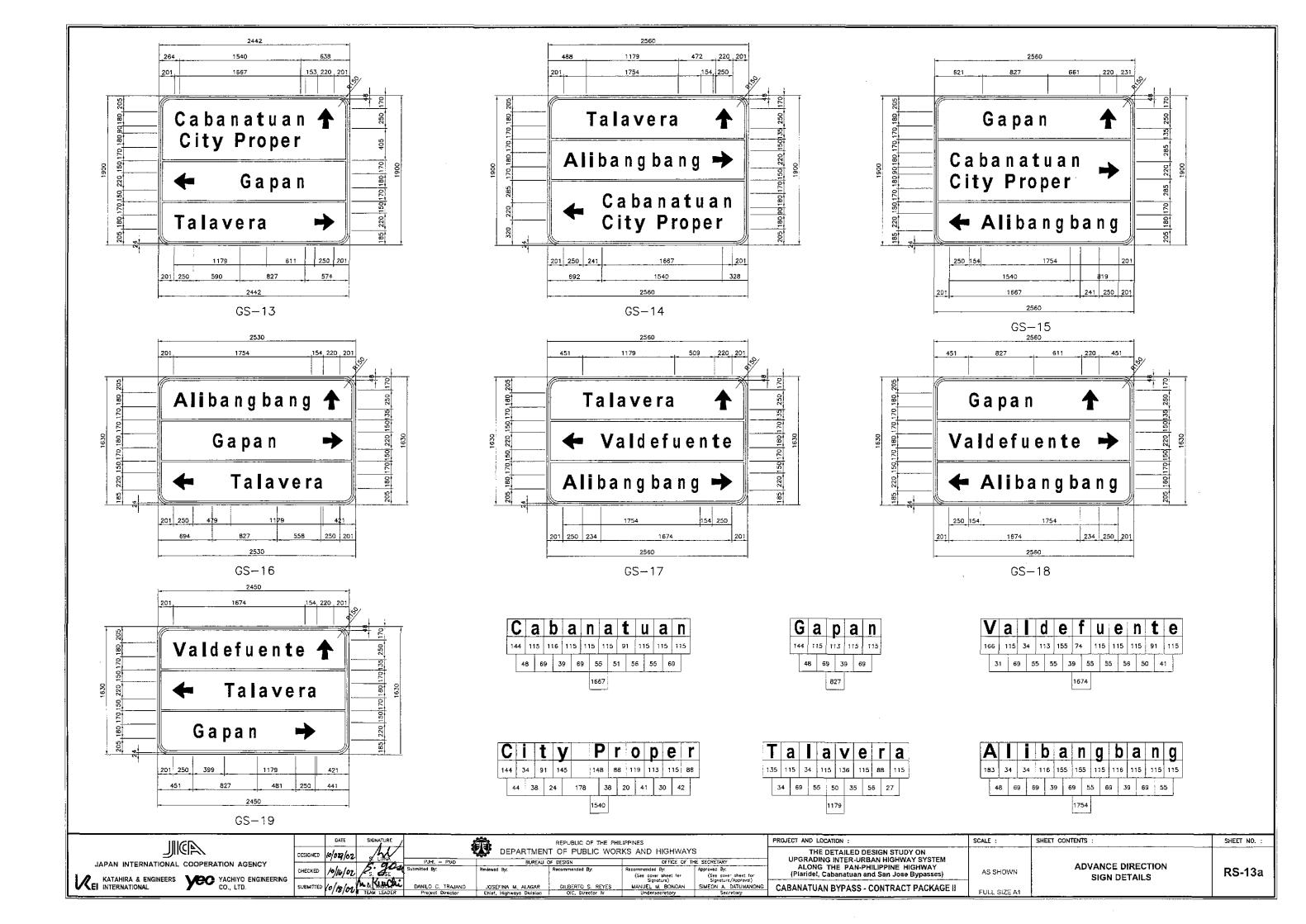






	DATE SIGNATURE	REPUBLIC OF THE PHILIPPINES	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL YEO YACHIYO ENGINEERING CO., LTD.	DESIGNED D/9/02 К	Reviewed By: Recommended By: Recommended By: (See cover sheet for Signature)	YS THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (See cover sheat for Signature/Agrovab) SIMEON A. DATUMANONG Secretary CABANATUAN BYPASS - CONTRACT PACKAGE II	AS SHOWN	ADVANCED DIRECTION SIGN DETAILS	RS-13





ROADSIDE SIGNS - MOUNTING SELECTION TABLE

SIGN SIZE WIDTH × DEPTH (mm)	NUMBER AND DIAMETER (mm) OF GALVANIZED PIPE POSTS
1200 x 600	2 x 65
1800 x 600	2 x 65
1800 × 1200	2 x 100
2400 x 600	2 x 100
2400 × 1200	2 x 125
2400 × 1800	2 x 125
3000 × 600	2 x 100
3000 × 1200	2 x 125
3000 × 1600	2 x 150
3000 × 2400	2 x 150
3700 × 600	2 x 100
3700 × 1200	2 x 125
3700 × 1800	2 x 150
3700 x 2400	3 x 150
4300 × 600	2 x 100
4300 × 1200	2 x 125
4300 × 1800	3 x 150
4900 × 600	3 x 100
4900 × 1200	3 x 125
4900 x 1800	3 x 150
5500 × 600	3 x 100
5500 × 1200	3 x 125
5500 × 1800	3 x 150
6100 × 600	3 x 100
5100 x 1200	3 x 125
6100 × 1800	

FOR INTERMEDIATE SIGN SIZES :

(c.) TAKE DIMENSIONS OF SIGN TO NEAREST 300mm.

(b.) FOR AN ODD DIMENSION TAKE THE NEAREST EVEN HIGHER DIMENSION IN TABLE E.G.:

NOTES:

- 1. THIS TABLE GIVES NUMBER AND SIZE OF GALVANIZED PIPE POSTS REQUIRED FOR SIGN SIZES SHOWN. ASSUMING UNDERSIDE OF SIGN IS 2.0m CLEAR ABOVE ROAD PAVEMENT. FOR SIGNS WITH CLEARANCES GREATER THAN 2.0m THE WIDTH USED IN THIS TABLE SHOULD BE THE ACTUAL WIDTH INCREASED BY A PERCENTAGE EQUAL TO THE PERCENTAGE INCREASE IN HEIGHT ABOVE 2.0m.
- 2. 12mm DIAMETER CADIUM PLATED BOLTS, NUTS AND WASHERS SHALL BE USED FOR ATTACHING SIGN TO POSTS.
- 3. TOP OF PIPE TO BE SUITABLY CAPPED AND PIPE BASES SHALL BE SEALED AGAINST MOISTURE.

•

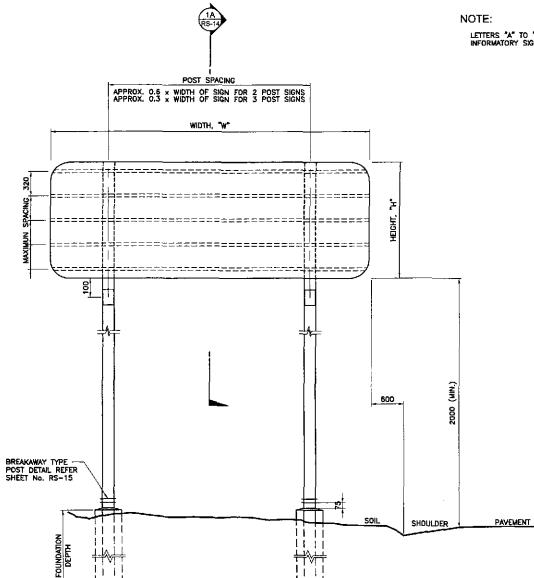
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

SIGN POST FOUNDATION TABLE

POST PROFILE # (mm)	FOUNDATION DIAMETER (mm)	FOUNDATION DEPTH (mm)				
<u><</u> 100	400	1000				
125	425	1200				
150	450	1500				

CLASSIFICATION FOR INFORMATORY SIGN

	H ≥ 900	ਸ ≤ 1500	H ≦ 2100	H > 2100
₩≦ 2100	A	B	в	-
₩ ≤ 2700	B	c	с	~
₩ <u>≤</u> 3350	в	С	D	D
₩ <u>≤</u> 4000	B	C	D	G
₩≤ 4600	8	c	G	G
₩ <u>≥</u> 4600	E	F	G	G

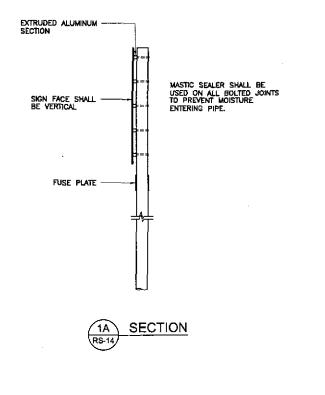


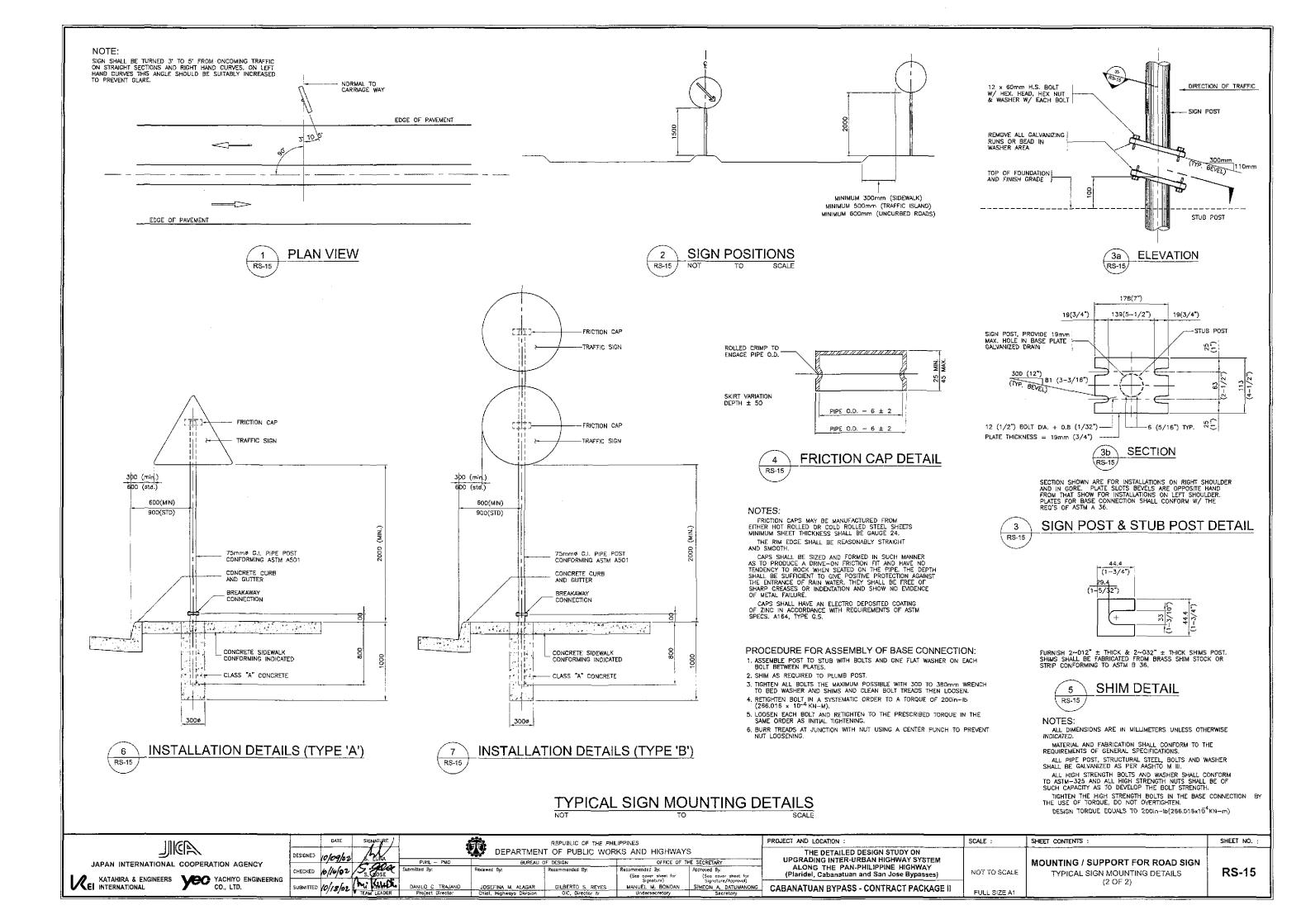
L____

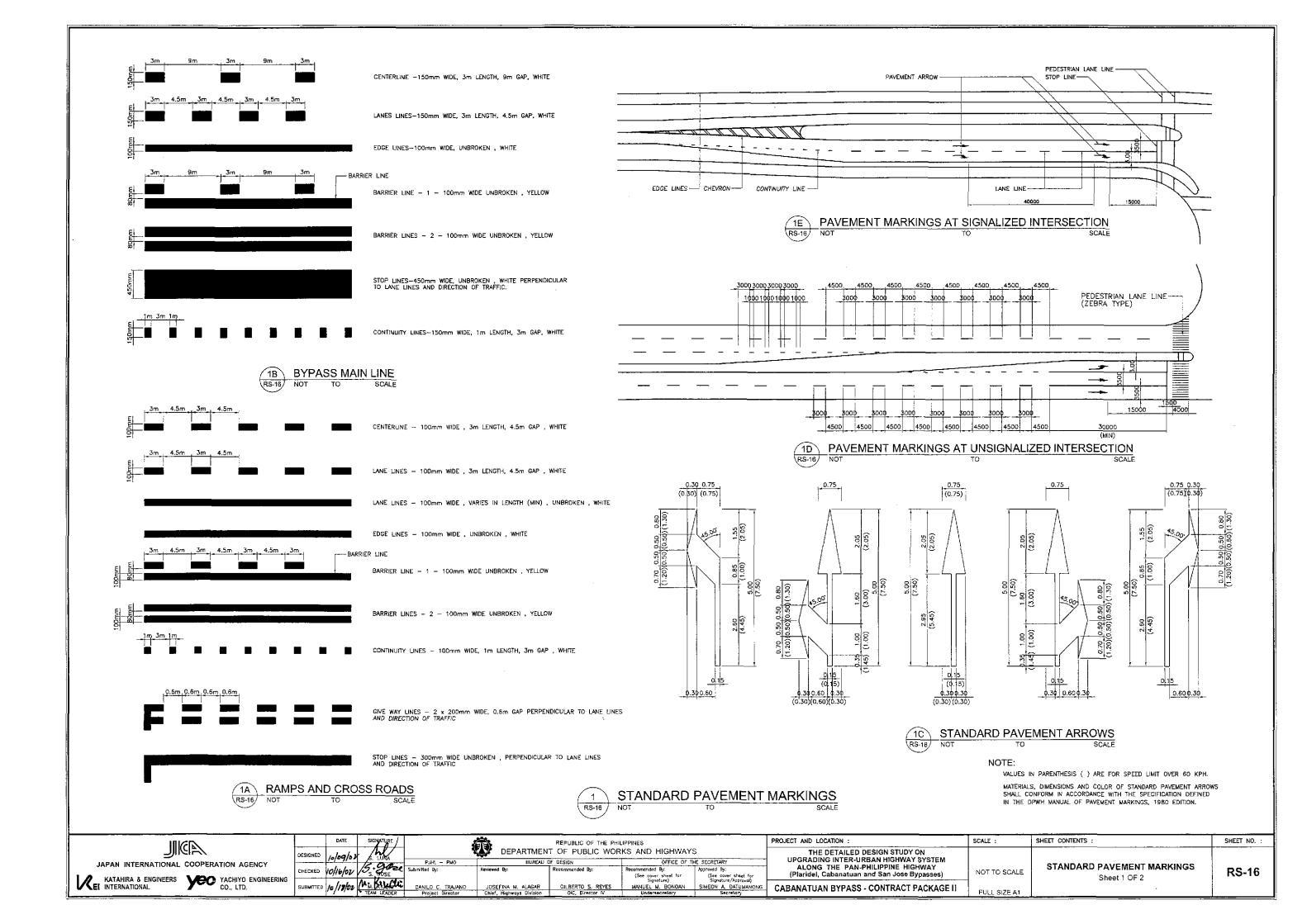


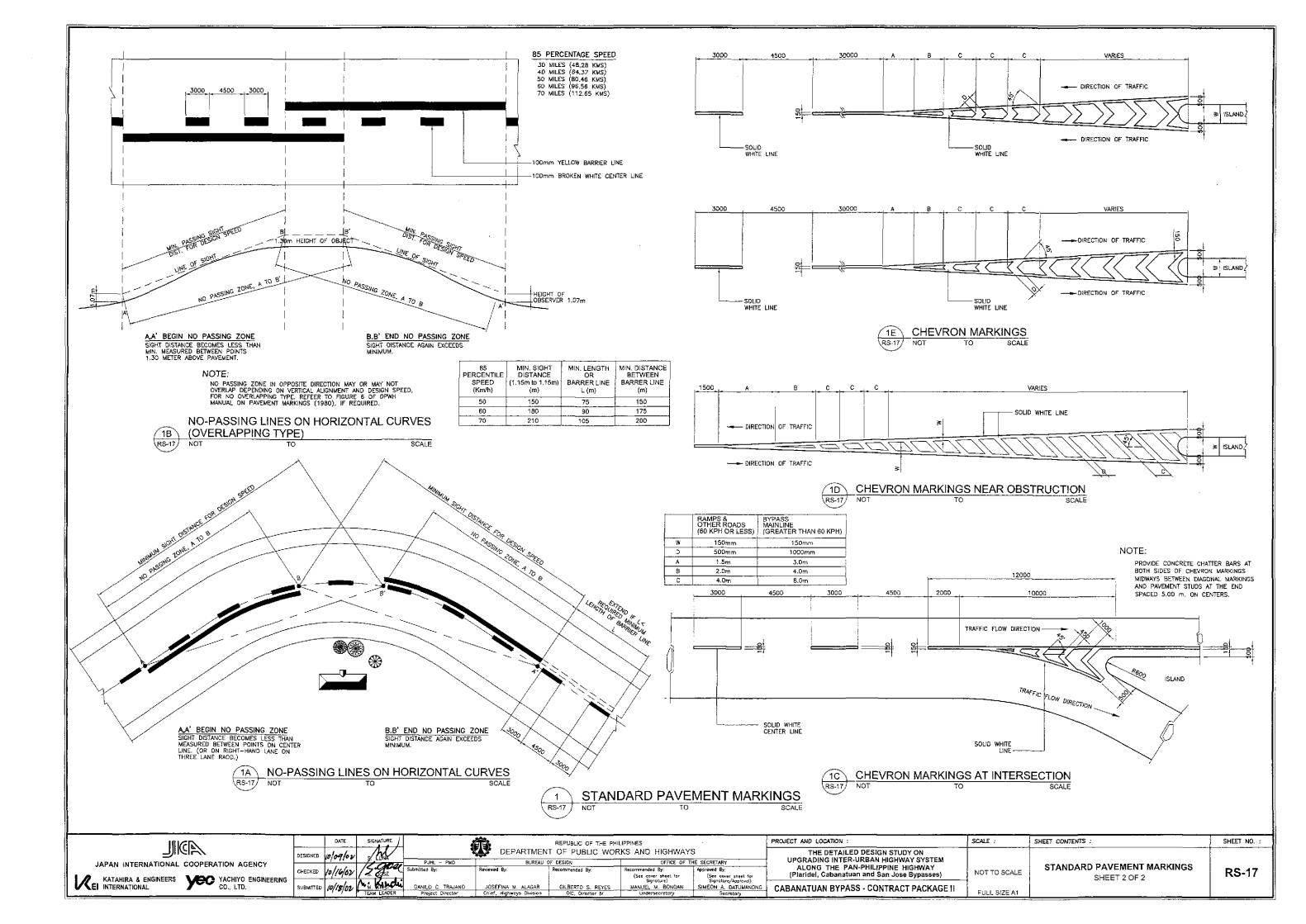
	DATE SIGNATURE		REPUBLIC OF THE PHILIPPINES		PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. ;
	DESIGNED 10/9/02 Stunia	PJHL - PMO BUREA	NT OF PUBLIC WORKS AND HIGHWAYS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM		MOUNTING/SUPPORT FOR ROAD SIGN	
	CHECKED 10/10/62/S COSE	Submitted By: Reviewed By:	Recommended By: A((See cover sheet for Signeture)	(See cover sheet for Signature/Approval)	ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	NOT TO SCALE	TYPICAL SIGN MOUNTING DETAILS	RS-14
CO., LTD.	SUBNITTED 10 180 TEAM LEADER	DANILO C. TRAJANO JOSEFINA M. ALAGAR Project Director Chief, Highways Division	GILBERTO S. REVES MANUEL M. BONGAN S		CABANATUAN BYPASS - CONTRACT PACKAGE II	FULL SIZE A1	(1 OF 2)	

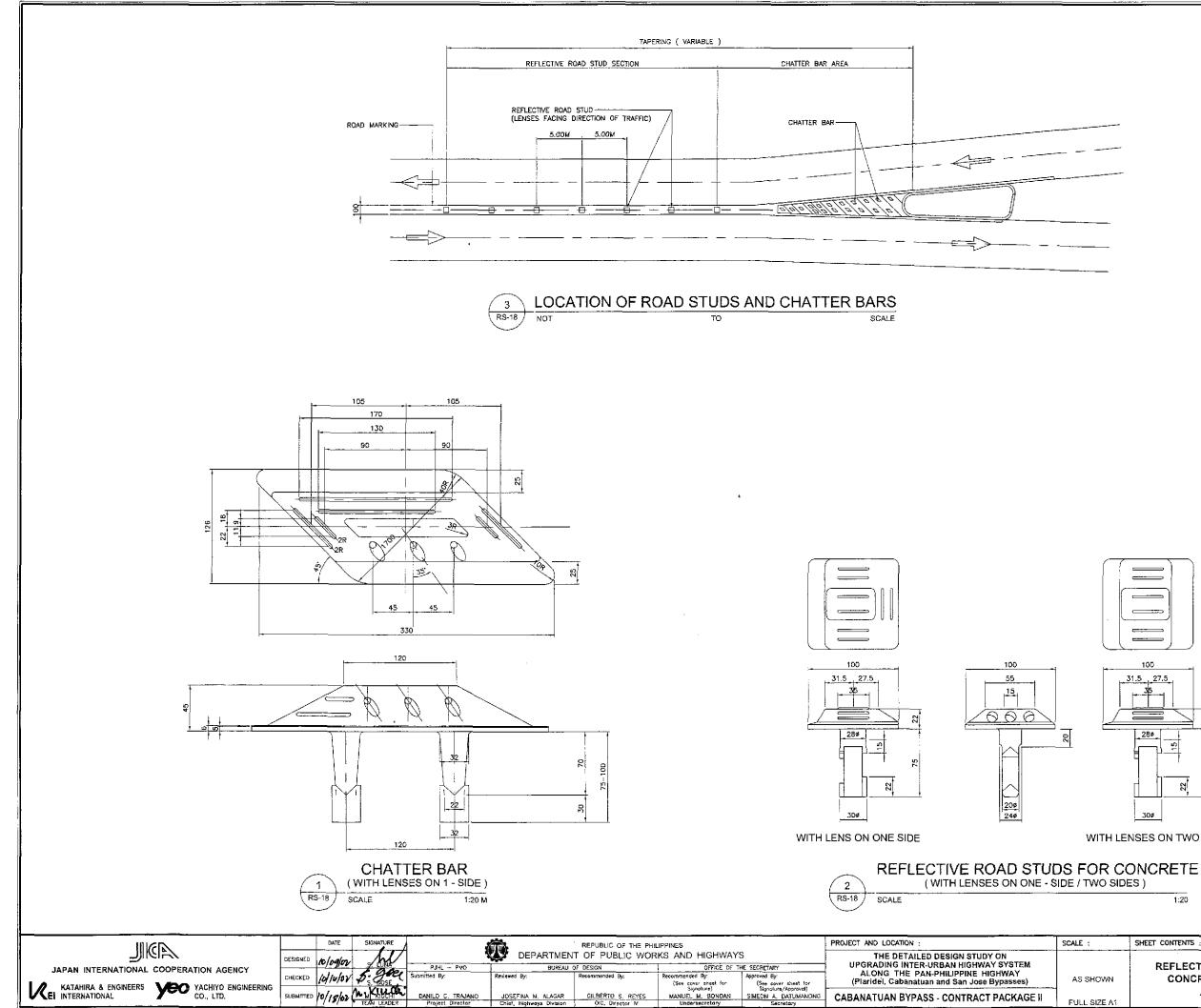
letters "A" to "G" indicates the size classification for informatory signs schedule,











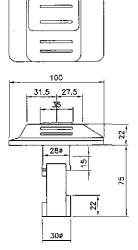
L	SIZE	A٦

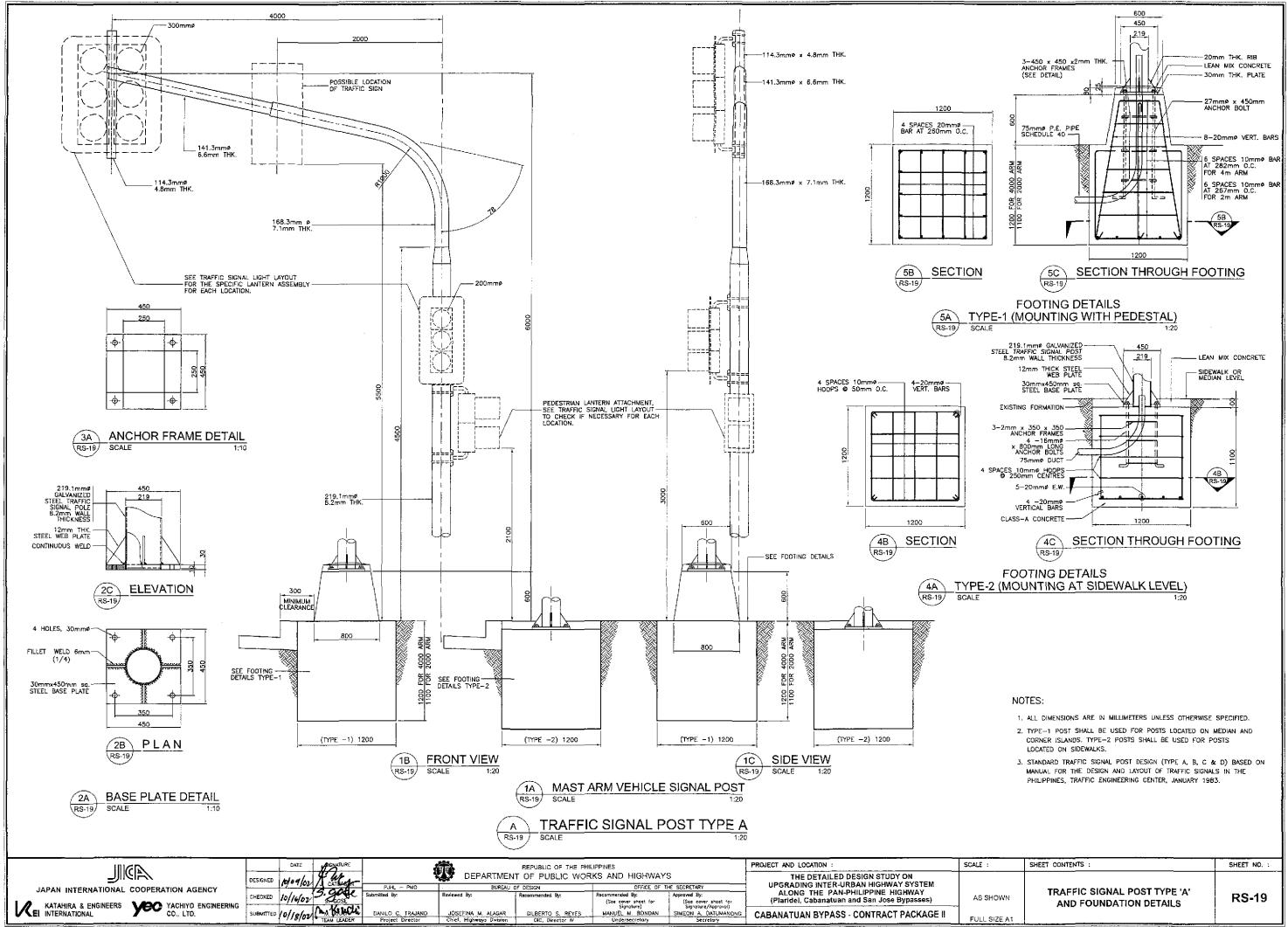
SHEET NO. :

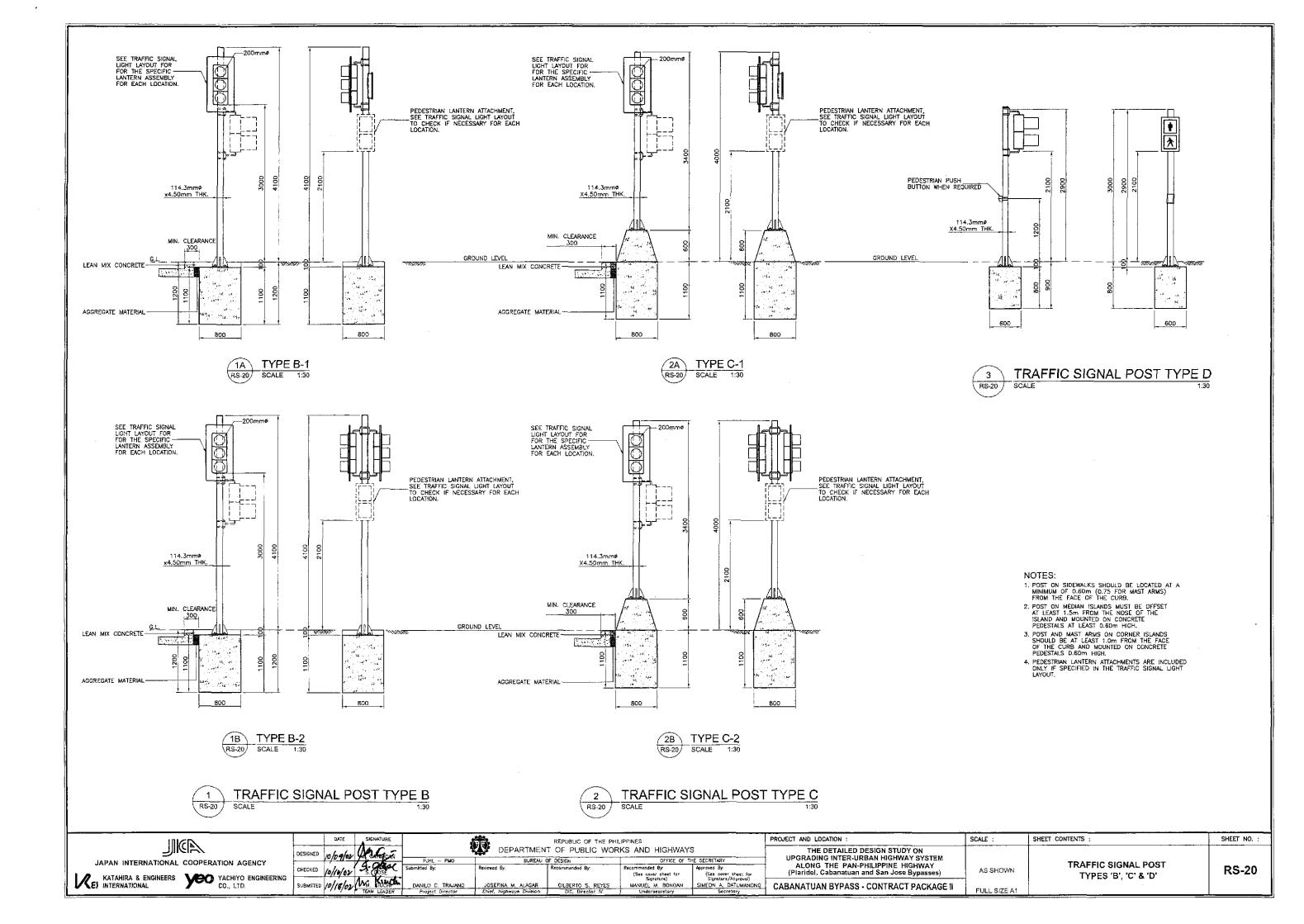
1:20

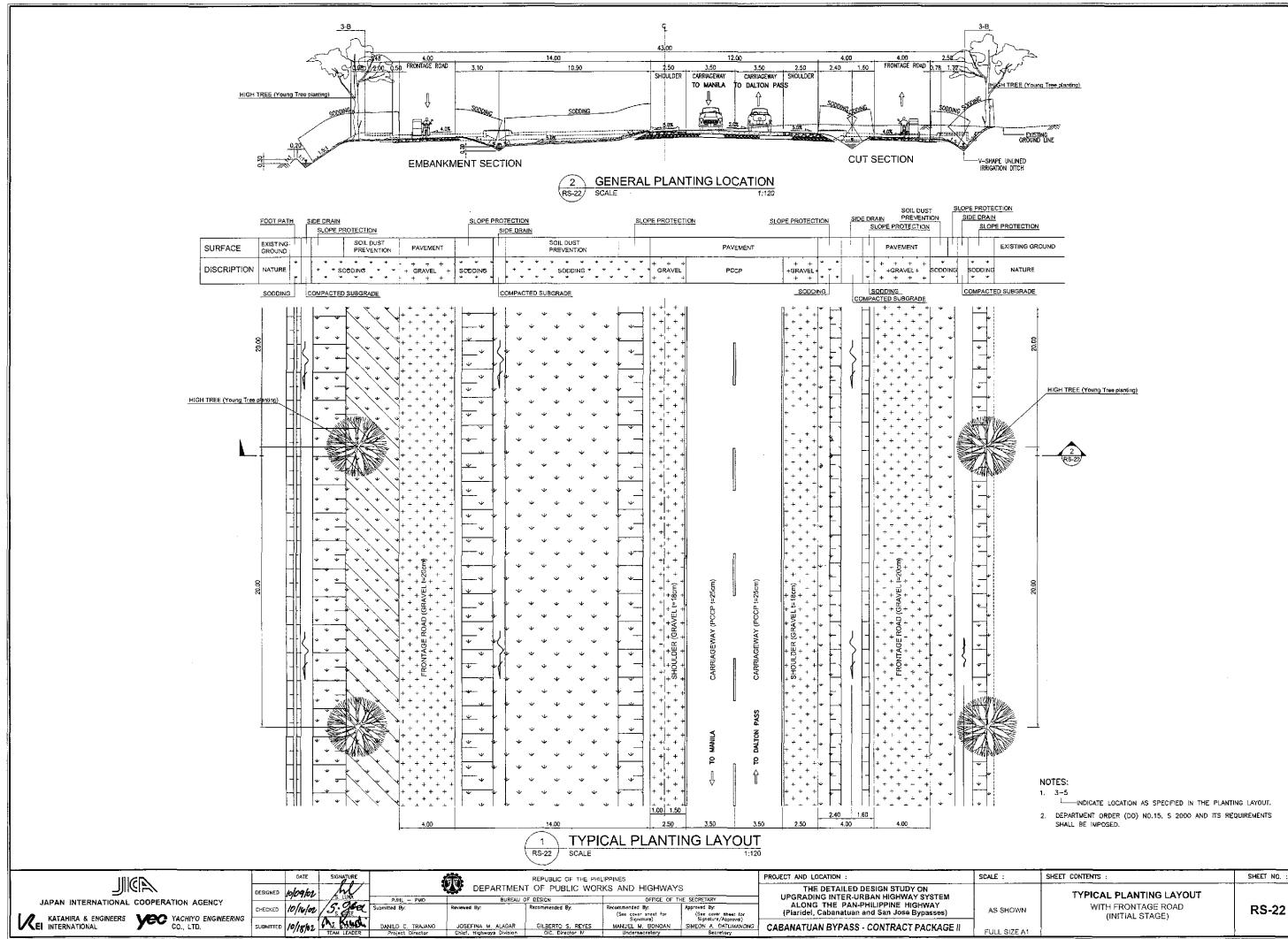
SHEET CONTENTS :

WITH LENSES ON TWO SIDES

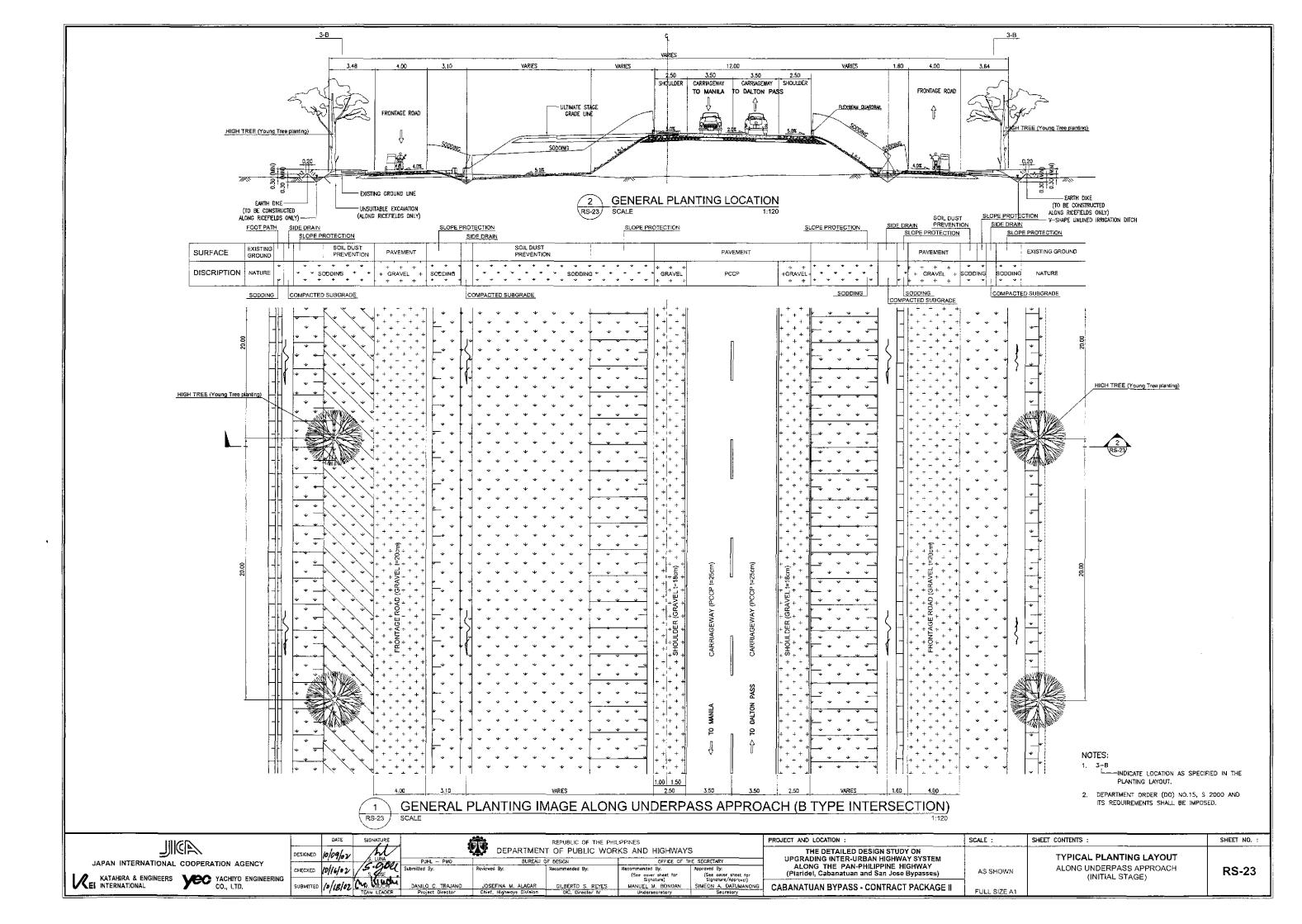


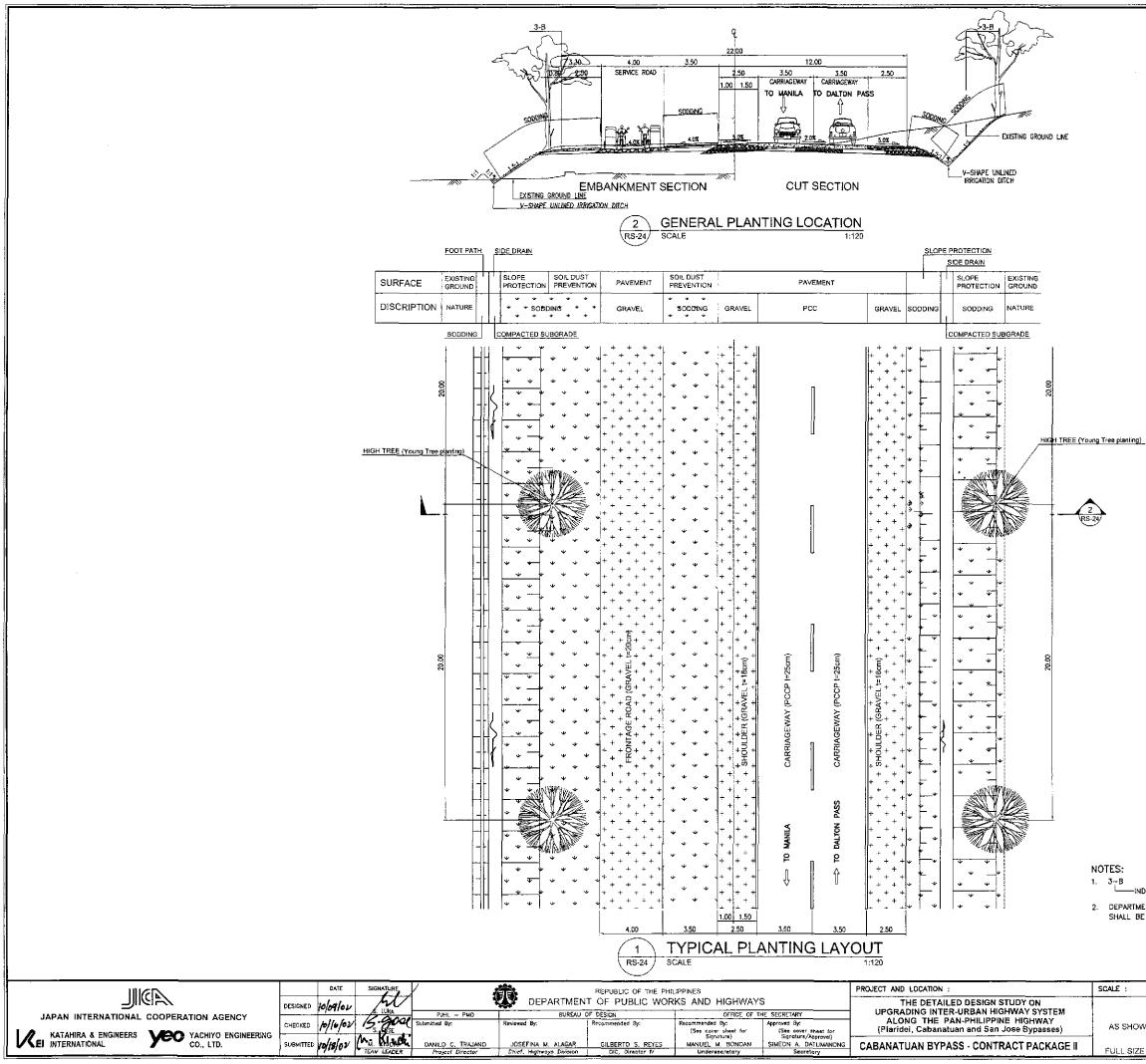








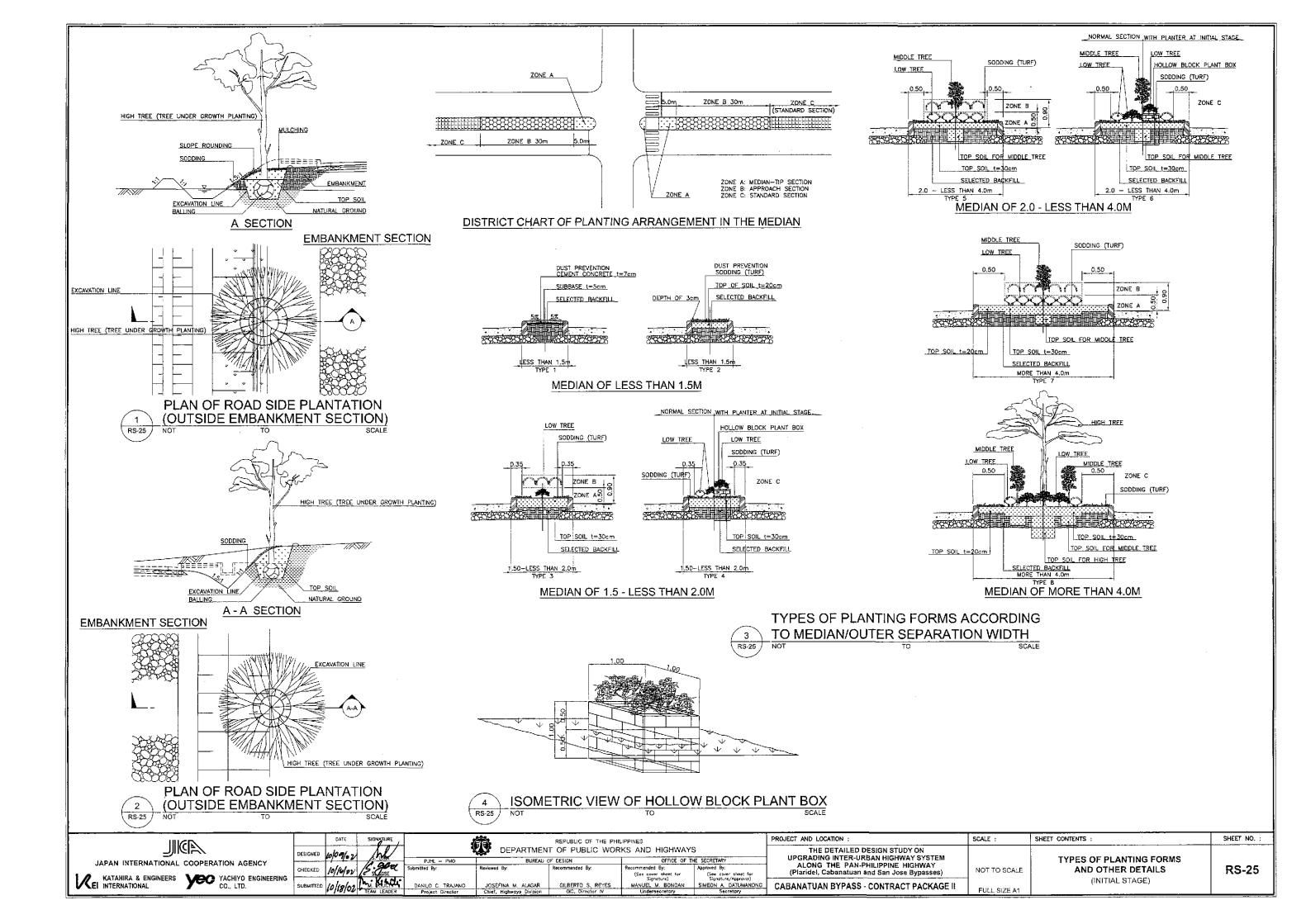


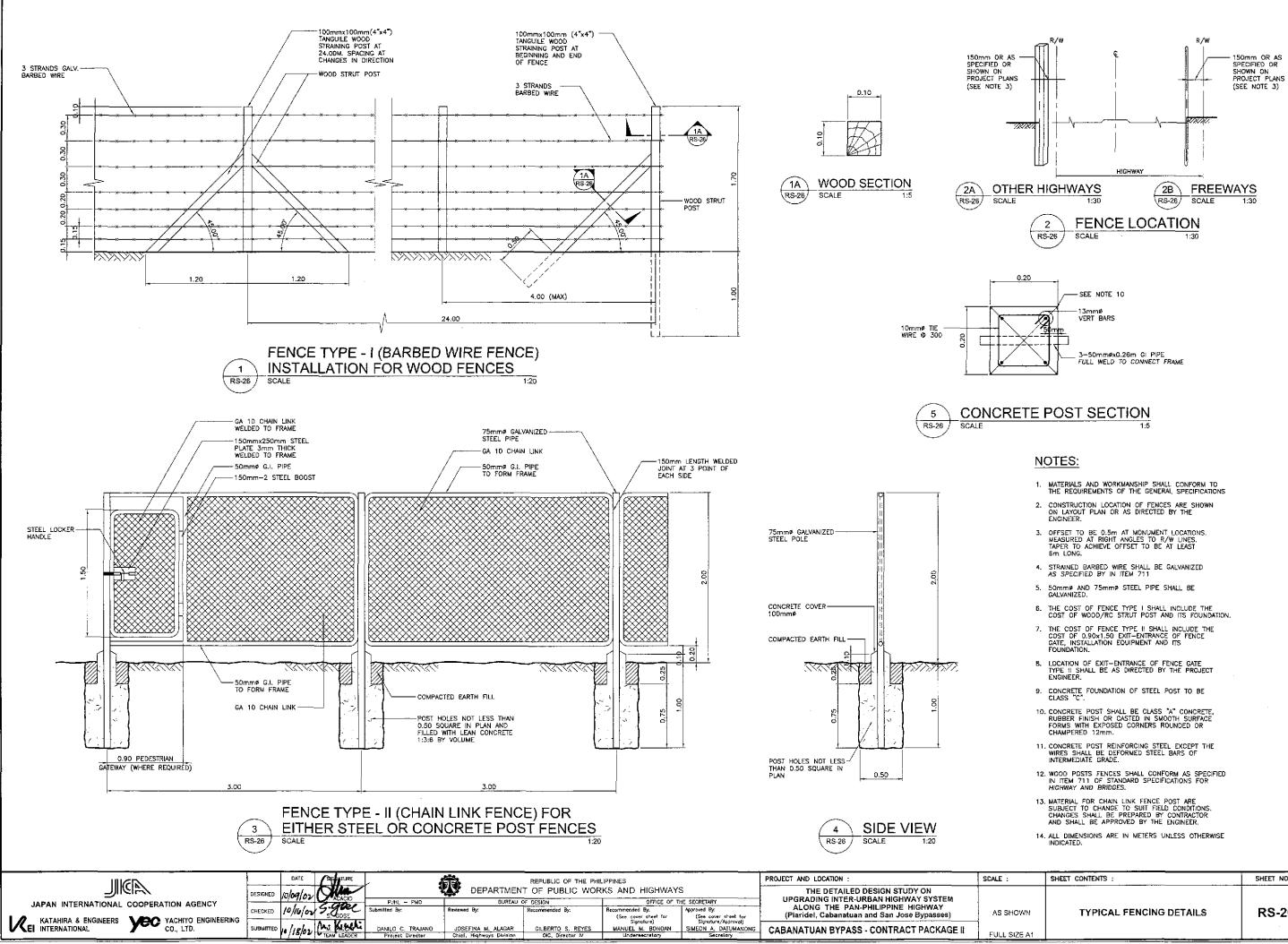


: : 	SHEET CONTENTS :	SHEET NO. :
SHOWN	TYPICAL PLANTING LAYOUT WITHOUT FRONTAGE ROAD (INITIAL STAGE)	RS-24
L SIZE A1		

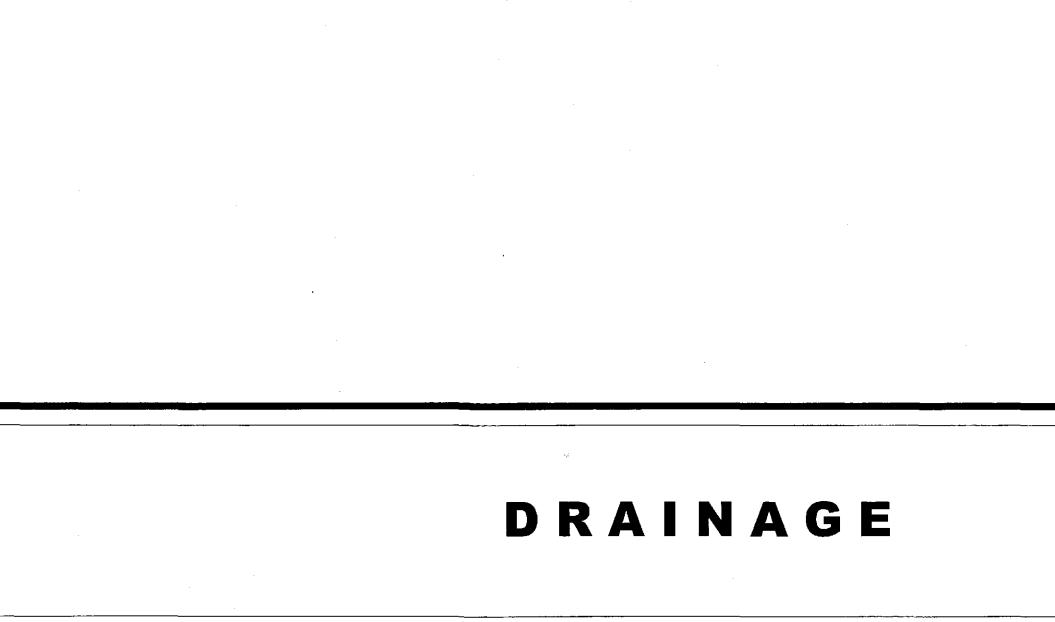
2. DEPARTMENT ORDER (DO) NO.15, S 2000 AND ITS REQUIREMENTS SHALL BE IMPOSED.

-INDICATE LOCATION AS SPECIFIED IN THE PLANTING LAYOUT.

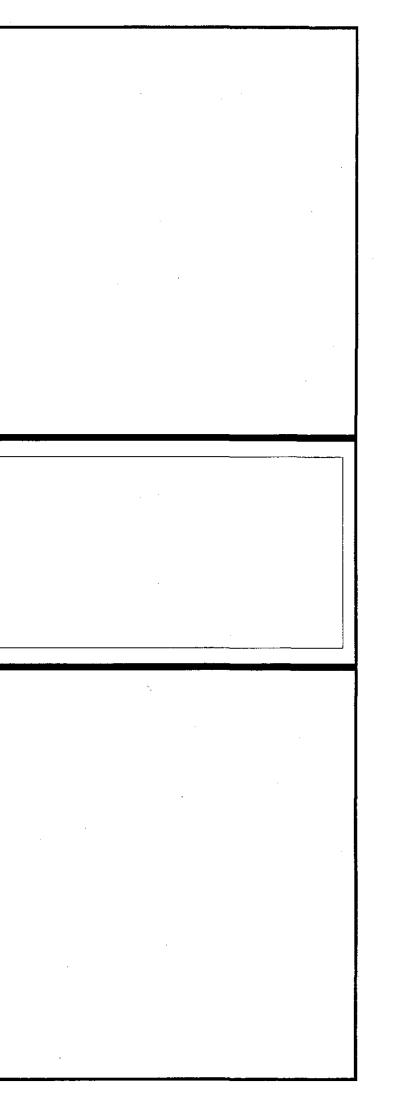




LE:	SHEET CONTENTS :	SHEET NO. :
AS SHOWN	TYPICAL FENCING DETAILS	RS-26
JLL SIZE A1		
	······································	



. .



		LEFT	T SIDE		RIGHT SIDE									RIGHT SIDE LEFT SIDE						RIGHT SIDE			
STA	TION	TION	LENGTH	TYPE OF STRUCTURE	STA	TION	TION	LENGTH	TYPE OF STRUCTURE	STAT	TION	TION	LENGTH	TYPE OF STRUCTURE	STA	TION	NOIL	LENGTH	TYPE OF STRUCTURE				
ROM	то	1 8	(m)	· · · · · · · · · · · · · · · · · · ·	FROM	TO	1 5	(m)		FROM	то	1 S	(m)		FROM	TO] ស្ត្រ[(m)					
CIM	CIM	1 2			CIM	CIM	1 9 [CIM	CIM	<u> </u>			CIM	CIM	1 9 [
0+064	Ð	ISTING 1-2.	40 × 1.80m≢ F	RCBC x 28.0m.	110+054	EX EX	ISTING 1-2.4	io x 1.80m≉ f	RCBC x 28.0m.	111+880		0 & S		CIM	111+890		OTOS	6	450 mm 🕫 R				
0+194		EXISTING 1	-910mm# RCP	C x 36.0m.	110+194		EXISTING 1-	-910mmé RCP	C x 36.0m.	111+900		EXISTING	1-910m# RCPC	x 66.0m.	111+890	111+920	S	30	610 mm # F				
10+284		EXISTING 1	-910mm# RCP	C x 2B.Dm.	110+284		EXISTING 1-	-910mm# RCP	C x 28.0m.	111+980		EXISTING 1	~1070m# RCP	C x 63.0m.	111+900		EXISTING 1	-910m# RCPC	x 66.0m.				
10+590		EXISTING 1-	1220mm# RCF	°C x 31.0m.	110+590		EXISTING 1-	1220mm# RCF	PC x 31.0m.	112+000		0&5		CIM	111+920		0 & S		CIM				
10+920		EXISTING1-	910mm# RCPC	x 27.0m.	110+920		EXISTING 1-	910mm# RCPC	x 27.0m.	112+000	112+040	S	40	610 mm # RCPC	111+975		0 & S		CIM				
10+086		EXISTING 2-	1070mm# RCF	°C x 53.0m.	110+086		EXISTING 2-	1070mm# RCF	°C x 53.0m.	112+040		0 & 5		CIM	111+975	112+000	S	25	610 mm 🖸 l				
11+140	<u> </u>	1 1	-910m# RCPC		11+140		<u>+</u> r	-910m# RCPC		112+040		0 10 5	6	460 mm # RCPC	111+980		· • • •	-1070m# RCPC					
11+140		0 & 5		CIM	111+140		0&5		CIM	112+040	112+080	S	40	610 mm Ø RCPC	112+000	ļ	0 & S		Cim				
11+140		OTOS	6	460 mm # RCPC	111+185		0 & 5		CIM	112+080		0 & S		CIM	112+000		OTOS	<u>6</u>	460 mm ⊄ f				
11+140	111+180	5	40	610 mm # RCPC	111+185	111+220	S	35	610 mm Ø RCPC	112+080		OTDS	6	460 mm # RCPC	112+000	112+040	S	40	610 mm 🕫 F				
11+1BD	l	S		CIM	111+204	· · · · ·	· · · · · · · · · · · · · · · · · · ·	-910m# RCPC		112+165	·····	5	l	CIM	112+D40		045		CIM				
11+204	┣━━━━━	EXISTING 1	-910m# RCPC	1	111+220		045			112+160	J		1-910m# RCPC		112+040	+10.000	O TO S	6	460 mm # F				
11+220		5			111+220	111.000	O TO S	6	460 mm # RCPC	112+204			2-910m# RCPC		112+040	112+080	S O A S	40	610 mm ∉ l				
11+220	111+260	S	40	610 mm ≠ RCPC	111+220	111+260	S	40	610 mm 4 RCPC CIM	112+220	112+250	O TO S	6 30	460 mm CIM# RCPC	112+080	+	0&S 0T0S	6	CIM 460 mm # F				
11+260	111+000	S S		CIM 610 mm # RCPC	111+260		0 & 5 0 T0 S	6	460 mm # RCPC	112+220	112+230	5 0&s		610 mm # RCPC	112+080	<u> </u>	s		460 mm # P				
11+260 11+290	111+290	5 		CIM	111+260		0 4 5	<u> </u>		112+250		0 ac s	5	460 mm # RCPC	112+160	112+195	5	35	610 mm # F				
1+304	+		-910mø RCPC		111+304			-910m# RCPC		112+250	112+285	s	35	610 mm # RCPC	112+180	1121180		-910m# RCPC					
1+325		0 & 5		CIM	111+380		D&S		CIM	112+260			1-910m# RCPC		112+195				CIM				
11+380	<u> </u>	0 & 5		CIM	111+380	·	O TO S	6	460 mm # RCPC	112+285		0 & 5		Сім	112+204			-910m# RCPC					
1+380		0 TO S	6	450 mm # RCPC	111+380	111+420	s	40	610 mm # RCPC	112+285	112+320	s	35	610 mm # RCPC	112+235		0 & 5		CIM				
1+380	111+420	S S	40	510 mm # RCPC	111+420		0 & 5		CIM	112+320		0 & 5		CIM	112+235	112+280	s	45	610 mm # F				
1+420	<u></u>	0 & 5		CIM	111+420		O TO S	6	460 mm Ø RCPC	112+320		0 TO S	6	460 mm # RCPC	112+260			-910m# RCPC					
11+420		O TO S	6	460 mm Ø RCPC	111+420	111+460	s	40	610 mm # RCPC	112+320	112+360	s	40	610 mm # RCPC	112+280		0 & 5		CIM				
11+420	111+460	S	40	610 mm # RCPC	111+460		0 & 5		CIM	112+360		0 & 5		CIM	112+280		0 10 5	6	450 mm 🖻 l				
11+460		045		CIM	111+460		O TO S	5	460 mm Ø RCPC	112+360		0 TO S	6	460 mm # RCPC	112+280	112+320	s	40	610 mm # F				
11+460		O TO S	6	460 mm # RCPC	111+460	111+500	s	40	610 mm # RCPC	112+400		0 & 5		CIM	112+320		0 & 5		CIM				
11+460	111+490	S	30	610 mm # RCPC	111+500		0 & S		CIM	112+400	· · · ·	O TO S	6	460 mm # RCPC	112+320	1	O TO S	6	450 mm 🗰 1				
111+490	1	045	·	СІМ	111+500		OTOS	6	450 mm # RCPC	112+400	112+440	5	40	610 mm # RCPC	112+320	112+360	s	40	610 mm # R				
11+490		ото с	6	460 mm # RCPC	111+500	111+530	5	30	610 mm # RCPC	112+440		0 & 5		CIM	112+360		0 & 5		CIM				
11+490	111+510	s	20	610 mm # RCPC	111+530		0 & 5		CIM	112+440		OTOS	6	460 mm # RCPC	112+350		O TO S	6	460 mm # F				
11+510		045		CIM	111+530		O TO S	6	460 mm # RCPC	112+440	112+480	s	40	610 mm # RCPC	112+400		0&5		CIM				
11+510	111+540	S	30	610 mm # RCPC	111+530	111+560	S	30	610 mm # RCPC	112+480		0 & 5		CIM	112+400		0 10 5	5	460 mm 🖸 F				
11+534		EXISTING	1-910m# RCP0	ск 71.0m.	111+534		EXISTING 1	-910m# RCPC	C x 71.0m.	112+480		O TO S	6	460 mm ≠ RCPC	112+400	112+440	s	40	610 mm 🕈 F				
11+540		0 & S		CIM	111 +5 6D		0 & \$		CIM	112+560		EXISTING	1—910m≢ RCPC	x 49.Dm.	112+440		0 & 5		CIM				
11+540	<u> </u>	O TO S	5	450 mm @ RCPC	111+560	111+590	S	30	510 mm # RCPC	112+560		S		CIM	112+440		0 TO S	6	460 mm 🗰 F				
11+540	111+580	s	40	610 mm # RCPC	111+590		0 & 5		CIM	112+560	112+600	S	40	610 mm # RCPC	112+440	112+480	s	40	610 mm # F				
11+580		0 & S		Сім	111+590		OTOS	6	460 mm Ø RCPC	112+600		0 & 5		CIM	112+480	<u> </u>	0 & 5		CIM				
11+580	_	O TO S	6	460 mm Ø RCPC	111+590	111+620	S	30	510 mm Ø RCPC	112+600		0 TO S	6	460 mm # RCPC	112+480	ļ	0 10 5	6	460 mm 🗰 i				
11+580	111+620	S	40	610 mm # RCPC	111+620		045		CIM	112+600	112+640	S	40	610 mm Ø RCPC	112+480	112+520	S	40	610 mm # F				
11+620	 	0 & S	<u> </u>	CIM	111+620		OTOS	6	460 mm # RCPC	112+640		045	Į	CIM	112+520	<u> </u>	0 & S		CIM				
11+620	+	O TO S	6	460 mm # RCPC	111+620	111+660	S	40	610 mm # RCPC	112+640		OTOS	6	460 mm # RCPC	112+520	J	OTOS	6	460 mm #				
11+620	111+660	5	40	610 mm # RCPC	111+660	<u> </u>	0 & 5			112+640	112+670	5	30	610 mm ¢ RCPC	112+560			-910m# RCPC					
1+660	<u> </u>	0 & S			111+660	·	O TO S	- 6	460 mm # RCPC	112+670		0 & S			112+560	110.000	0 & S		CIM				
1+660	+	O TO S	6	450 mm Ø RCPC	111+700	111-17-0	S	40		112+670	<u> </u>	O TO S	6 1_010m4_BCB0	450 mm # RCPC	112+560	112+600	2	40	610 mm Ø				
1+700	111+740	5 S	40	CIM 610 mm # RCPC	111+700	111+740	S	40	610 mm # RCPC CIM	112+735		O & S	1-910m# RCPC	CIM	112+600 112+600		0 & S 0 T0 S		CiM 460 mm #				
11+740	1117/40	s	<u> </u>		111+740	111+780	S	40	610 mm # RCPC	112+740	 	0 ac s	<u> </u>	460 mm # RCPC	112+600	112+640	s	40	450 mm ♥ 610 mm ♥				
11+740	111+780	5	40	610 mm # RCPC	111+780		S S			112+740	112+780	5 S	ь 40	610 mm # RCPC	112+640		0 & S		610 mm 9 CIM				
11+780		5	······································		111+780	111+B20	s s	40	510 mm # RCPC	112+780	1127700	0 & 5		CIM CIU M	112+640	1	0 az s	6	450 mm #				
11+780	111+820	\$	40	B10 mm ≠ RCPC	111+820		5		CM	112+780		0 22 5	6	460 mm ¢ RCPC	112+640	112+670	s	30	450 mm ♥				
11+B20		s			111+820	111+B6Q	5	40	610 mm Ø RCPC	112+780	112+820	5	40	610 mm Ø RCPC	112+670		s		CIM				
11+B20	111+860	s	40	510 mm ≱ RCPC	111+850		5 0&S	-70	CIM	112+820	,,	045	+ ·····	CIM	112+870	<u> </u>		-910m# RCPC					
11+860		0 & 5	<u>├</u> ───	CIM	111+850	<u> </u>	0 ac s	6	460 mm # RCPC	112+820		O TO S	6	460 mm # RCPC	112+740		S S		x 50.0m. CIM				
111+860		O TO S	В	460 mm # RCPC	111+890	+	0 & S					s	35		112+740	112+780	s	40	610 mm # R				

M — Center Median S — Sidewalk CiM — Catch Inlet Monhole

0 - Outer Separator RCPC - Reinforced Concrete Pipe Culvert MH - Manhole

		DATE	SIGNATURE			REPUBLIC OF THE PHI	LIPPINES		PROJECT	AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
<u>A</u> ML	DESIGNED	10/09/02	VPP Street	PJHL - PMO -		T OF PUBLIC WOR		'S The secretary	UP	THE DETAILED DESIGN STUDY ON GRADING INTER-URBAN HIGHWAY SYSTEM			
JAPAN INTERNATIONAL COOPERATION AGENCY	CHECKED	14/10/07/	Halen			Recommended By:	Recommended By: (See cover sheet for	Approved By: (See cover sheet for		ALONG THE PAN-PHILIPPINE HIGHWAY aridel, Cabanatuan and San Jose Bypasses)		SCHEDULE OF SURFACE DRAINAGE	DG-01
KATAHIRA & ENGINEERS YOO YACHIYO ENGINEERING INTERNATIONAL YOO CO., LTD.	SUBMITTE	1.1	n in Kisselfe	DANILO C. TRAJANO	JOSEFINA M. ALAGAR	GILBERTO S. REYES	Signature) MANUEL M. BONDAN	Signature/Approval) SIMEON A. DATUMANONG	CABAN	NATUAN BYPASS - CONTRACT PACKAGE II		SURFACE DRAINAGE	
		91000	TEAM LEADER	Project Director	Chief, Highwaya Division	OIC, Director N	Undersocretary	Secretary			FULL SIZE A1		

		LEF	TSIDE				RIGI	IT SIDE				LEF	T SIDE				RIGH	IT SIDE	
STA	TION	NOL	LENGTH	TYPE OF STRUCTURE	STA	TION	lion	LENGTH	TYPE OF STRUCTURE	STA	TION	lon	LENGTH	TYPE OF STRUCTURE	STA	TION	lion	LENGTH	TYPE OF STRUCTURE
FROM	то	5	(m)		FROM	то	1 3	(m)		FROM	то	8	(m)		FROM	то		(m)	
CIM	CIM	- Š			CIM	CIM	1 3	<u>_</u>	1	CIM	CIM	2	, <i>, ,</i>		CIM	CIM	1 2		
12+854		EXISTING	1-910m# RCPC	x 48.0m.	112+780		0 & S		CIM	113+740		0 TO S	6	460 mm # RCPC	113+660	<u> </u>	EXISTING 1	-1070m# RCPC	× 47.0m.
12+854		045	<u> </u>	CIM	112+780		O TO S	6	450 mm # RCPC	113+810	<u> </u>	0 & 5		CIM	113+660		0 & 5		CIM
112+865	<u> </u>	EXISTING	1-910m# RCPC	x 48.0m.	112+780	112+820	5	40	610 mm Ø RCPC	113+810	{ =	OTOS	6	460 mm # RCPC	113+660	113+700	s	40	
112+890			1-910m# RCPC	· · · · · · · · · · · · · · · · · · ·	112+820		0 & 5	<u> </u>	CIM	113+810	113+850	S	40	610 mm # RCPC	113+700		0 & 5		CIM
112+920		045		CIM	112+820		O TO S	6	460 mm # RCPC	113+850		0&5		CIM	113+700	· · · · · · · · · · · · · · · · · · ·	ото в	6	450 mm # RCF
112+920		OTOS	6	460 mm Ø RCPC	112+820	112+854	s	35	610 mm # RCPC	113+850		0 TO S	6	460 mm # RCPC	113+700	113+740	5	40	610 mm # RC
112+920	112+960	5	40	610 mm ≠ RCPC	112+854		EXISTING	1-910m¢ RCPC	x 48.0m.	113+850	113+880	s	30	610 mm # RCPC	113+740		045		CIM
112+960	<u> </u>	045		CIM	112+854		0 & 5	1	CIM	113+880		EXISTING 1	-1070m# RCPC	x 47.0m.	113+740		OTOS	6	
112+960	F	O TO S	6	460 mm @ RCPC	112+865		EXISTING	1-910m# RCP0	x 48.0m.	113+880		0 & 5		CIM	113+810		0 & 5		CIM
112+960	112+990	S	30	610 mm # RCPC	112+890		EXISTING	1-910m# RCP0	x 48.0m.	113+880	113+900	5	20	610 mm # RCPC	113+810		o to s	6	460 mm # RCI
112+990		5		CIM	112+920		0 & 5		CIM	113+900		0 & 5		CIM	113+810	113+850	s	40	610 mm Ø RCI
112+990	113+020	s	30	610 mm # RCPC	112+920		O TO S	6	460 mm ¢ RCPC	113+900	<u> ·</u>	O TO S	6	460 mm # RCPC	113+850		0 & 5		CIM
113+020	+	s	<u>├─</u> ─	CIM	112+920	112+960	s	40	610 mm Ø RCPC	113+900	113+940	S	40	610 mm # RCPC	113+850		0 TO S	6	460 mm Ø RCF
113+020	113+060	5	40	510 mm # RCPC	112+960		0 & 5	<u> </u>	CIM	113+940		0 & 5		CIM	113+850	113+880	5	30	610 mm # RC
113+050		S	<u>├──</u> ──-		112+960	<u> </u>	O TO S	6	460 mm # RCPC	113+940		O TO S	6	460 mm # RCPC	113+880				·
113+060	113+100	s	40	610 mm € RCPC	112+960	112+990	s	30	610 mm # RCPC	113+940	113+980	s	40	510 mm Ø RCPC	113+580	<u> </u>	OAS		CIM
113+100		0 & 5	<u>├</u>		112+990		0 & 5	<u> </u>		113+980		0 & 5			113+880	113+900	5	20	610 mm Ø RC
113+100	<u> </u>	O TO S	6	460 mm # RCPC	112+990	<u> </u>	0 10 5	5	460 mm # RCPC	113+980	<u> </u>	O TO S	6	460 mm # RCPC	113+900	1	0 & 5		CIM
113+100	113+140	s	40	610 mm # RCPC	112+990	113+020	5	30	610 mm # RCPC	113+980	114+020	s	40	610 mm # RCPC	113+900		O TO S	5	460 mm # RCI
113+140	1137140	0 & S			113+020	1101020	0 & 5		CIM	114+020		0 & 5	- 10	CIM	113+900	113+940	s	40	610 mm # RCF
	<u>+</u>	O TO S		460 mm Ø RCPC	113+020		O TO S	6	460 mm # RCPC	114+020	<u> </u>	0 TO S		460 mm # RCPC	-	1134840	0 & 5		
113+140	+		6			117.000							- 6		113+940			6	CIM
113+260		S		CiM	113+020	113+060	5	40	610 mm ∳ RCPC	114+050		0 & S			113+940		OTOS	<u> </u>	460 mm # RCF
113+260	113+295	S	35	610 mm Ø RCPC	113+060		0 & S		CIM	114+060		OTOS	6	460 mm # RCPC	113+940	113+980	S	40	610 mm # RCF
113+295	<u> </u>	\$		CIM	113+060		O TO S	6	460 mm # RCPC	114+160	114+200	S	40	610 mm # RCPC	113+980		0 & 5		CIM
113+300	+	+	1-910m# RCPC		113+060	113+100	S	40	610 mm ≠ RCPC	114+200	<u> </u>	0 & 5			113+980		OTOS	6	460 mm ≉ RCl
113+325		S		CIM	113+100		0 & 5	·	CIM	114+200		OTOS	6	460 mm # RCPC	113+980	114+020	2	40	610 mm # RCF
113+325	113+360	5	35	610 mm # RCPC	113+100		O TO S	6	460 mm Ø RCPC	114+200	114+240	S	40	610 mm # RCPC	114+020		045		CIM
113+354		1	1-910m# RCPC		113+100	113+140	S	40	610 mm # RCPC	114+240	l	0 & S		CIM	114+020		OTOS	6	460 mm 🕈 RC
113+360	<u> </u>	<u> </u>			113+140		O≰S		CIM	114+240		DTOS	6	460 mm # RCPC	114+160		0 & 5		CIM
113+360	113+380	S	20	610 mm # RCPC	113+140		0 TO S	Б	460 mm # RCPC	114+240	114+270	S	30	610 mm Ø RCPC	114+160		0 TO S	6	460 mm 🕈 RC
113+380		5		<u>Čim</u>	113+260		5		610 mm ∉ RCPC	114+270	l	0 & 5		Cim	114+160	114+200	s	40	610 mm # RCF
113+410		5		CIM	113+260	113+305	S	45	610 mm # RCPC	114+270	114+310	S	40	610 mm # RCPC	114+200		0 & 5		CIM
113+410	113+440	S	30	610 mm Ø RCPC	113+300		1	1-910m# RCP0	······································	114+275		1	1-910m# RCPC	· · · · · · · · · · · · · · · · · · ·	114+200		O TO S	6	460 mm Ø RC
113+440		04:5		CIM	113+305		5	· · · · · · · · ·	CIM	114+310		0&5		CIM	114+200	114+240	S	40	610 mm 🔌 RCF
113+440	<u> </u>	OTOS	6	460 mm ¢ RCPC	113+330		s	<u> </u>	СІМ	114+310		OTOS	6	450 mm # RCPC	114+240		0 & S		CIM
113+460	I	0 & S		CIM	113+330	113+370	s	40	S1D mm # RCPC	114+310	114+340	S	30	610 mm # RCPC	114+240		OTOS	6	460 mm ≉ RC
113+460	ļ	0 TO S	6	460 mm # RCPC	113+354		EXISTING	1-910m# RCP0	c x 77.0m.	114+340		0 & 5		CIM	114+240	114+280	S	40	610 mm # RCF
113+460	113+490	S		610 mm # RCPC	113+370		5		СІМ	114+340	ļ	DTOS	6	460 mm # RCPC	114+275		· · · · · ·	1-910m# RCPC	x 49.0m.
113+490		s		CIM	113+370	113+410	S	40	610 mm Ø RCPC	114+340	114+380	5	40	610 mm # RCPC	11 4+280		0 & 5		CIM
113+490	113+520	S	30	610 mm • RCPC	113+410		5		CIM	114+380		0 & 5		CIM	114+280	114+310	S	30	610 mm ø RCF
113+520		5	I	CIM	113+410	113+440	5	30	610 mm # RCPC	114+380		OTOS	6	460 mm # RCPC	114+310		045		CIM
113+520	113+560	S	40	610 mm # RCPC	113+440		s		CIM	114+380	114+420	S	40	610 mm # RCPC	114+310		0 10 5	6	460 mm 🕈 RC
113+560		s			113+440	113+460	s	20	610 mm # RCPC	114+420		0 & 5			114+310	114+340	s	30	610 mm \$ RC
113+560	113+590	5	30	610 mm # RCPC	113+460		0 & 5		CIM	114+420		OTOS	6	460 mm # RCPC	114+340		0 & 5		CIM
113+590		5		CIM	113+460		O TO S	6	460 mm # RCPC	114+450		0 & S		CIM	114+340		O TO S	6	460 mm # RC
113+620		045			113+480		0 & S		CIM	114+450	114+500	S	50	610 mm e RCPC	114+340	114+380	s	40	610 mm 🔌 RCI
113+620		0 TO S	6	460 mm # RCPC	113+480		O TO S	6	460 mm # RCPC	114+460		EXISTING	1-910m# RCPC	x 53.0m.	114+380		S		CIM
113+620	113+660	5	40	610 mm # RCPC	113+480	113+520	5	40	\$10 mm ₱ RCPC	114+500		045		CIM	114+380	114+420	Ŝ	40	610 mm Ø RCI
113+660		EXISTING	-1070m# RCPC	x 47.0m.	113+520		s		CIM	114+500		0 TO S	6	460 mm # RCPC	114+420		s		CIM
11 3+66 0		0 & 5		CIM	113+520	113+560	s	40	610 mm # RCPC	114+580		0 & 5		CIM	114+460		EXISTING	1-910m# RCPC	x 53.0m.
113+560	113+700	5	40	610 mm # RCPC	113+56D		s	I	СІМ	114+580		O TO S	6	460 mm # RCPC	114+470	1	s	Г	СМ
113+700	1	0 & 5		CIM	113+560	113+620	5	60	610 mm # RCPC	114+580	114+609	s	30	610 mm # RCPC	114+470	114+500	s	30	610 mm 🕫 RC
113+700	1	O TO S	6	460 mm Ø RCPC	113+620		0 & 5	1	CIM	114+609	1	EXISTING	I−1070mø RCPC	x 57.0m.	114+500	<u> </u>	5		CIM
113+700	113+740	s	40	610 mm # RCPC	113+620	<u> -</u>	O TO S	6	450 mm # RCPC	114+609	1	s		610 mm # RCPC	114+580	1	0 & 5	┢────┤	CIM
			4		1		A			1 B			•		r	1			

M – Canter Median S – Sidewalk CIM – Catch Inlet Manhole

4

0 — Duter Separator RCPC — Reinforced Concrete Pipe Cuivert MH — Manhole

		DATE	SIGNATURE			REPUBLIC OF THE PH			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED	10/09/02	lever				RKS AND HIGHWAY	S He secretary	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM			
JAPAN INTERNATIONAL COOPERATION AGENCY	CHECKED	10/10/02	Halam	Submitted By:	Reviewed By:	Recommended By:	Recommended By: (See cover sheet for	Approved By: {See cover sheet for	ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)		SCHEDULE OF SURFACE DRAINAGE	DG-02
KATAHIRA & ENGINEERS YOO YACHIYO ENGINEERING INTERNATIONAL CO., LTD.	SUBMITTED	Voligion	Mr. Kuchi	DANILO C. TRAJANO	JOSEFINA M. ALAGAR	Gilberto S. Reyes	Signature) MANUEL M. BONOAN	Signature/Approval) SIMEON A. DATUMANONG	CABANATUAN BYPASS - CONTRACT PACKAGE II		SURFACE DRAINAGE	
		10,00	TEAM LEADER	Project Director	Chief, Highways Division	QiC, Director N	Undersecratory	Secretary		FULL SIZE A1		l

	· · · · · · · · · · · · · · · · · · ·	1 66			r		PIC					1 6 61	T SIDE		1		PICH	IT SIDE	
				TYPE OF	·				TYPE OF				SIDE	TYPE OF	h				TYPE OF
STAT	10N		LENGTH	STRUCTURE	STA	TION		LENGTH	STRUCTURE	STAT		VIION	LENGTH	STRUCTURE	STA	TION	VTIOI	LENGTH	STRUCTURE
FROM	то	l 22	(m)		FROM	то	Ŋ	(m)		FROM	<u> </u>	DCAT	(m)		FROM	то		(m)	
CIM		Ц Ц			CIM	CIM	<u> </u>					Ĕ			CIM	CIM	Ц		
114+660	· · · · · · · · · · · · · · · · · · ·	EXISTING 1	-910me RCPC		114+580	114+609	s	30	510 mm ¢ RCPC	115+560		OTOS	6	460 mm # RCPC	115+380	115+420	S	40	610 mm # RCPC
114+680		0 & 5		CIM	114+609		EXISTING 1	-1070m# RCPC		115+600		OLES		CIM	115+420		0 & 5		CIM
114+680	114+700	S	20	610 mm # RCPC	114+609		S		CIM	^{‡15+600}		OTOS	6	460 mm # REPC	115+420		OTOS	6	460 mm # RCPC
114+700		0 & S		CIM	114+625			1-910m# RCP0		115+600	115+530	S	30	610 mm # RCPC	115+420	115+460	5	40	610 mm # RCPC
114+700		OTOS	6	460 mm # RCPC	114+640		0 & 5		CIM	115+630		0 & 5			115+460		0 & S		CIM
114+700		S	40	610 mm # RCPC	114+640	114+670	S	30	610 mm # RCPC	115+630	115+680	S	50	610 mm # RCPC	115+460	1	OTOS	6	460 mm # RCPC
114+740	1441010	S		CIM	114+660		·	1-910m# RCPC		115+640		<u> </u>	-910m# RCPC		115+460	115+500	S	40	510 mm ₱ RCPC
114+780	114+810	S	30	610 mm # RCPC	114+670		045		CIM	115+680		0 & 5	-		115+494	<u> </u>		-1070m# RCPC	
114+810	444.040	\$		CIM	114+670	114.70	OTOS	6	460 mm Ø RCPC	115+680		OTOS	6	460 mm # RCPC	115+500		0 & S		CIM
114+810	114+84D	S		610 mm # RCPC	114+670	114+700	5	30	610 mm # RCPC	115+680	115+720	s	40	610 mm # RCPC	115+500	115+530	S		610 mm ¢ RCPC
114+840 114+840	114+880	5			114+700 114+700		045		CIM	115+720	<u> </u>	04:5		CIM	115+530		0 & 5		CIM
114+880		5	40	610 mm # RCPC	114+700	114+740	O TO S	6	460 mm # RCPC	115+720		0 TO S	6	460 mm # RCPC	115+530		O TO S	6	460 mm # RCPC
114+880			<u> </u>	CIM 460 mm # RCPC	114+740		S O # S	40	610 mm Ø RCPC	115+720	115+760	S	40	610 mm # RCPC	115+530	115+560	S 0 # S	30	610 mm ¢ RCPC
114+880	114+960	0 TO S	5 40	610 mm # RCPC	114+740		0 & S	6	CIM 460 mm # RCPC	115+760	<u> </u>	0&5	e		115+560		0 & S	┝── _─ ──┤	
114+960		5 0 & S			114+780	<u> </u>	0 TO S 0 & S	· · · · ·	460 mm # KCPC CIM	115+760 115+850		0 TO 5 0 & 5	5	460 mm # RCPC CIM	115+560 115+600		0 TO S 0 & S	6	460 mm # RCPC
114+960		0 ac s 0 TO S	6	450 mm Ø RCPC	114+780		0 acs	6	460 mm 4 RCPC	115+850	·····	0 46 5	6	450 mm # RCPC			0 A2 S	6	CIM 460 mm # RCPC
114+960	115+000	s s	40	610 mm # RCPC	114+780	114+810	s 10 5	30	610 mm Ø RCPC	115+850	115+890	5 10 5	40	610 mm # RCPC	115+600 115+640	<u> </u>		1-910m# RCPC	
115+000		045			114+B10		0 & 5		CIM	115+890		5	70		115+640		O & S		X 55.0m. CiM
115+000		O TO S	6	460 mm # RCPC	114+810		O TO S	В	460 mm # RCPC	115+890	115+930	s s	40	610 mm ø RCPC	115+650	115+680	5 8 3	30	610 mm # RCPC
115+000	115+040	5	40	610 mm # RCPC	114+810	114+840	s	30	61D mm # RCPC	115+930	(137930	s			115+680	113+060	3 0&5		
115+040		0 & S			114+840		045		CIM	115+930	115+970	s	40	610 mm # RCPC	115+680		O TO S	5	450 mm # RCPC
115+040	, , <u></u>	O TO S	6	460 mm # RCPC	114+840	<u> </u>	O TO S	6	460 mm ≠ RCPC	115+965	1,04970		-910m# RCPC	_,	115+680	115+720	s	40	610 mm # RCPC
115+070		5		CIM	114+840	114+880	5	40	610 mm # RCPC	115+970		s		CIM	115+720	1101720	0 & 5		CIM
115+070	115+100	s	30	610 mm Ø RCPC	114+880		0 & S		CIM	115+995			-910m# RCPC		115+720		0 TO S	-6	460 mm Ø RCPC
115+100		· · · · · · · · · · · · · · · · · · ·	1-910m# RCPC		114+880		O TO S	6	460 mm # RCPC	116+050			-910m¢ RCPC		115+72D	115+760	5	40	610 mm # RCPC
115+100		s		CIM	114+88D	114+920	S	40	610 mm ≉ RCPC	116+050		0 & 5		CIM	115+760		045		CIM
115+130		s		CIM	114+920		0 & 5		CIM	116+050	116+090	s	40	610 mm # RCPC	115+760		OTOS	6	460 mm # RCPC
115+130	115+150	5	20	610 mm # RCPC	114+920		O TO S	6	460 mm Ø RCPC	116+090		0 & 5		CIM	115+850		0 & 5		CIM
115+150		0 & 5		CIM	114+960		0 & 5		CIM	116+090	· · · · · · · · · · · · · · · · · · ·	OTDS	6	450 mm # RCPC	115+850		ото с	6	460 mm # RCPC
115+150		O TO S	6	460 mm ¢ RCPC	114+960		ото с	6	450 mm # RCPC	116+160	<u> </u>	. 5		CIM	115+B50	115+890	S	40	610 mm # RCPC
115+170		0 & 5		CIM	114+960	115+000	s	40	610 mm # RCPC	116+160	116+190	s	30	610 mm # RCPC	115+890		s		610 mm # RCPC
115+170		O TO S	6	460 mm ₱ RCPC	115+000		0 & 5		CIM	t16+190		s		CIM	115+690	115+930	S	40	610 mm Ø RCPC
115+170	115+200	S	30	610 mm Ø RCPC	115+000		OTOS	6	460 mm # RCPC	116+190	116+220	S	30	610 mm # RCPC	115+930		5		CIM
115+200		5		CIM	115+000	115+D40	s	40	610 mm ≉ RCPC	116+220		\$		CIM	115+930	115+965	s	35	610 mm # RCPC
115+200	115+240	s	40	610 mm # RCPC	115+040		0 & 5		CIM	116+220	116+260	\$	40	610 mm # RCPC	115+965		EXISTING	1-910m# RCPC	x 50.0m.
115+240		S		CIM	115+040		OTOS	6	460 mm # RCPC	116+260		0&5		CIM	115+965		S		CIM
115+240	115+280	5	40	610 mm # RCPC	115+070		5		CIM	116+260		OTOS	6	460 mm # RCPC	115+995		EXISTING	1-910m# RCPC	x 58.0m.
115+280		s		CIM	115+070	115+100	5	30	610 mm 🕈 RCPC	116+260	116+300	s	40	610 mm # RCPC	116+050	1	EXISTING 1	1-910m# RCPC	x 48.0m.
115+380	<u> </u>	0 & 5		CIM	115+100		EXISTING	1-910m# RCPC	x 50.0m.	116+300		0&5		CIM	116+050		0&5		CIM
115+380		OTOS	6	460 mm Ø RCPC	115+100	1	S		CIM	116+300	<u>_</u>	0 TO S	6	450 mm # RCPC	116+05Ô	116+090	s	40	610 mm # RCPC
115+380	115+420	S	40	610 mm # RCPC	115+130	ļ	5	_	СІМ	116+340	L	····· 1	-910m# RCPC		116+090		0 & S		CIM
115+420		0 & S		CIM	115+130	115+150	\$	20	610 mm # RCPC	116+340		0 & S		CIM	116+090		O TO S	6	460 mm # RCPC
115+420		OTOS	6	460 mm # RCPC	115+150		0 & S		ĊIM	116+340	116+370	s	30	610 mm # RCPC	116+160		5		CIM
115+420	115+460	S	40	510 mm # RCPC	115+150	<u> </u>	OTOS	6	460 mm ≉ RCPC	116+370	 	0&5		CIM	116+160	116+190	S	30	510 mm ¢ RCPC
115+460		0 & S		<u>ĆIM</u>	115+170		0 & 5		CIM	116+370		OTOS	6	460 mm ≉ RCPC	116+190		ŝ	l	CIM
115+460		OTOS	6	460 mm # RCPC	115+170		O TO S	6	460 mm # RCPC	116+370	116+400	s	30	610 mm Ø RCPC	116+190	116+220	S	30	610 mm # RCPC
115+460	115+490	S	30	610 mm # RCPC	115+170	115+200	s	30	510 mm # RCPC	116+400	┣	0&5		CIM	116+220	ļ	5	L	CIM
115+490		0 & 5		CIM	115+200	ļ	5		СІМ	116+400	Į	ото с	5	460 mm ¢ RCPC	116+220	116+260	s	40	610 mm # RCPC
115+490	115+530	5	40	610 mm # RCPC	115+200	115+240	5	40	610 mm # RCPC	116+540	l	0 & S			115+260	1	0 & S	L	CIM
115+494		-	-1070m# RCPC	· · · · · · · · · · · · · · · · · · ·	115+240		s		CIM	116+540	<u> </u>	0 TO S	6	450 mm # RCPC	116+260	ļ	OTOS	5	460 mm # RCPC
115+530		0 & S		CIM	115+240	115+280	s	40	610 mm Ø RCPC	116+540	116+550	S	10	610 mm Ø RCPC	116+260	116+300	\$	40	610 mm ₱ RCPC
115+530		O TO S	6	460 mm # RCPC	115+280		5		СІМ	116+550		0 & 5		CIM	116+300		0 & S	<u> </u>	CIM
			1 70	840 4 DODO	115+380	1	0 & 5	1	. CIM	116+550	116+580	s	30	610 mm Ø RCPC	116+300	1	OTOS	6	460 mm Ø RCPC
115+530 115+560	115+560	S 0 & S	30	610 mm ≉ RCPC CIM	115+380		O TO S		460 mm Ø RCPC	116+574	1107080		-1220m# RCPC		116+340	l '		1-910m# RCPC	

M – Center Medicn S – Sidewolk CIM – Catch Inlet Manhole

0 — Outer Separator RCPC — Reinforced Concrete Pipe Culvert MH — Manhole

			DATE	SIGNATURE		<pre>Alia</pre>		'HE PHILIPPINES		PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	JAPAN INTERNATIONAL COOPERATION AGENCY	DESIGNED	10/09/02	Veres fund over	PJHL - PWO		BUREAU OF DESIGN	WORKS AND HIGHW	OF THE SECRETARY	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY		SCHEDULE OF	
l	KATAHIRA & ENGINEERS YOC YACHIYO ENGINEERING	SUBMITTED	10/16/02	M. Kyechi	Submitted By: DANILO C. TRAJANO	JOSEFINA M. /		(See cover sheet fo Signature) EYES MANUEL M. BONG	Approved By: (See cover sheet for Signature/Approval) N SIMEON A. DATUMANONG	(Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE II		SURFACE DRAINAGE	DG-03
			1101-2	TEAM LEADER	Project Director	Chief, Highways	Division OIC, Director	N Undersecratory	Secretary		FULL SIZE A1	l	

·····		LEF	T SIDE				RIGH	T SIDE				LEF	T SIDE				RIGH	T SIDE	
STA	TION	NOL	LENGTH	TYPE OF STRUCTURE	STA	TION	ATION	LENGTH	TYPE OF STRUCTURE	STA		lion	LENGTH	TYPE OF STRUCTURE	STA	TION	lion	LENGTH	TYPE OF STRUCTURE
FROM	То	1 5	(m)	<u></u>	FROM	то	- E	(m)		FROM	то	OCAT	(m)		FROM	то	OCAT	(m)	
CIM	СІМ	l Š	<u> </u>	······································	СІМ	CIM	ğ			CIM	CIM	ě			CIM	CIM	- <u>s</u>		· · ·
16+5BD		0&5	┟─────┼	Сім	116+340		0 & 5		CIM	117+420		0 & S		CIM	117+210	117+240	s	30	510 mm # R
16+580		O TO S	6	450 mm @ RCPC	116+340	116+370	s	40	610 mm # RCPC	117+420	· · · -	0 TO S	6	460 mm ∉ RCPC	117+240		C.0.5		CIM
16+580	116+615	s	35	610 mm # RCPC	116+370		045		CIM	117+420	117+450	s	30		117+240		C TO O	10	460 mm # F
16+615	(101010	0 & 5		CiM	116+370		ото ѕ	6	460 mm # RCPC	117+450		0 & 5		CIM	117+240		OTOS	6	460 mm # F
16+615		0 10 5	6	460 mm ≇ RCPC	116+370	115+400	5		610 mm # RCPC	117+454		· · · · · · · · · · · · · · · · · · ·	-1220m# RCPC		117+270		c,o,s		CIM
	116+655	+		610 mm # RCPC	116+400	1104400	0 & 5		CIM	117+520		· · · · ·		CIM	··· ·· ·		СТОО	10	450 mm # I
116+615		<u> </u>	40				O TO S	6	460 mm # RCPC	117+520		O & S O TO S		460 mm # RCPC	117+270		OTOS		
116+655		s		CIM	115+400	· · · · · · · · · · · · · · · · · · ·		<u> </u>			1171500		6	· · · · · · · · · · · · · · · · · · ·	117+270	447.700	-{·	6	460 mm # 1
116+700		5		CIM	116+540	····	045		CIM	117+520	117+560	S	40	610 mm # RCPC	117+270	117+300	S	30	610 mm 🖸 i
116+700	116+740	5	40	610 mm # RCPC	116+54D		OTOS	6	460 mm # RCPC	117+560		045		CIM	117+300		C,D,S		CIM
116+740	ļ	S			116+54D	116+570	5	30	610 mm Ø RCPC	117+560		OTOS	6	450 mm # RCPC	117+300		СТОО	10	460 mm 🕈 f
116+740	116+780	s	40	610 mm # RCPC	116+570		0 & 5		CIM	117+560	117+600	5	40	610 mm # RCPC	117+300		OTOS	5	460 mm 🖸 F
116+780		5		CIM	116+570		0 TO 5	6	460 mm # RCPC	117+600		0 & 5		CIM	117+300	117+340	S	40	610 mm # F
116+780	116+820	s	40	610 mm # RCPC	116+570	116+600	5	30	610 mm # RCPC	117+600	. .	OTOS	6	450 mm Ø RCPC	117+340		O TO S	6	460 mm ₱ f
16+820		0 & S			116+574		EXISTING 1	-1220m# RCP(x 79.0m.	117+600	117+630	s	30	610 mm ∉ RCPC	117+340		СТОО	10	460 mm 🖉 I
16+820		0 TO S	6	460 mm ≠ RCPC	116+600		0 & 5		ÇIM	117+630		0 & 5		CIM	117+340		O TO S	6	460 mm ¢ l
116+834	1	EXISTING 1	-1520m# RCPC	x 68.0m.	116+600		otos	6	460 mm # RCPC	117+630		O TO S	6	460 mm # RCPC	117+340	117+380	S	40	610 mm 🗰 i
116+845		0 & 5		CIM	116+600	116+615	s	15	610 mm # RCPC	117+630	117+660	S	30	610 mm # RCPC	117+380		C,O,S		CIM
116+845	116+880	5	35	810 mm # RCPD	116+615		s		CIM	117+660		0 & 5		CIM	117+380		СТОО	10	460 mm ≠ 1
116+880		s		CIM	116+700		5		CIM	117+660		OTOS	6	460 mm # RCPC	117+380		O TO S	6	460 mm ≇ 1
16+880	116+920	S	40	610 mm # RCPC	116+700	116+740	S	40	610 mm # RCPC	117+710		EXISTING	1-910md RCPC	x 48.0m.	117+420		C,0,5		CIM
16+920		s		CIM	116+740		s		CIM	117+710		0 & 5		CIM	117+420		стоо	10	460 mm 🖸 1
116+955	<u> </u>	EXISTING 1	-1220me RCPC	x 55.0m.	116+740	116+780	s	40	610 mm # RCPC	117+710	117+760	5	50	B10 mm ≠ RCPC	117+420		ото с	6	460 mm ¢ F
16+955		s		CIM	116+780		0 & 5		CIM	117+760		s		CIM	117+420	117+460	S	40	610 mm # F
116+955	116+990	s	32	510 mm # RCPC	116+780		O TO S	6	460 mm # RCPC	117+760	117+800	s	40	510 mm # RCPC	117+454		·	-1220m# RCPC	
116+990		0 & 5		CIM	116+820		0 2 5		CIM	117+800		s			117+450		C,0,5		CIM
116+990	<u> </u>	0 10 5	6		115+820		O TO S		450 mm # RCPC	117+800	117+840	5	40	610 mm # RCPC	117+520		C.0.5		CIM
117+031	<u> </u>	0 & 5		CIM		116+850		30	510 mm # RCPC	117+B40	117 +0+0	s		CIM			С ТО О	10	460 mm # F
		+		460 mm # RCPC	116+820	110+630	5				1.17.000		40	610 mm ø RCPC	117+520			6	
117+031	117.000	0 TO 5	6		116+834		1	-1520m# RCPC		117+840	117+880	s	+0		117+520	447.500	OTOS		460 mm # F
117+031	117+060	5	29	610 mm # RCPC	116+850		S		CIM	117+880		S		CIM	117+520	117+560	5	40	610 mm 🔌 f
117+060	ļ	045		CIM	116+850	116+89D	<u> </u>	30	610 mm # RCPC	117+920		0&5		CIM	117+560		C,D,S		CIM
117+060		OTOS	6	460 mm # RCPC	116+880	····-	C & S		CIM	117+920		OTOS	6	460 mm # RCPC	117+560		C TO O	10	460 mm # F
117+060	117+080	<u> </u>	20	610 mm # RCPC	116+880		<u> </u>	15	460 mm # RCPC	117+920	117+965	S	40	610 mm # RCPC	117+560		OTOS	6	460 mm ≢ R
117+080	· · · · · · · · · · · · · · · · · · ·	0 & S			116+880	116+920	\$	40	610 mm # RCPC	117+958		EXISTING 2	2-1220m# RCP1	2 x 53.0m.	117+560	117+600	S	40	610 mm Ø F
117+080	117+110	S	30	610 mm # RCPC	116+920		C&S		CIM	118+082		EXISTING 1	1-1070m# RCP0	x 59.0m.	117+600		C.O.S	· · ·	CIM
117+090		EXISTING 1	1-1070m# RCPC	x 52.0m.	116+920		СТОО	15	460 mm # RCPC	118+204		EXISTING	1-910m# RCPC	x 32.0m.	117+600		СТОО	10	460 mm 🖸 🕈
117+110		<u> </u>		CIM	116+955		EXISTING 1	-1220m# RCP0	x 55.0m.	· · · · · · · · · · · · · · · · · · ·					117+600		0 10 5	5	460 mm 🕈 i
117+1B0		045		CIM	116+955		C,0,S		CIM	118+395		EXISTING	1-910m# RCPC	x 32.0m.	117+600	117+630	S	30	610 mm 🐠 F
117+180		O TO S	6	460 mm # RCPC	116+955	116+990	5	32	610 mm # RCPC	118+785		EXISTING	1-910m# RCPC	x 45.0m.	117+630		C,0,S		CIM
117+180	117+225	5	45	610 mm # RCPC	116+990	1	C,0,S		CIM	118+900		EXISTING	1-910m≢ RCPC	x 47.0m.	117+630		C TO O	10	460 mm 🕫 R
117+204		EXISTING 1	-1220m# RCPC	× 66.0m.	116+990		стоо	10	460 mm 👂 RCPC	_					117+630		OTOS	6	460 mm 🗰 R
17+225		0 & 5		CIM	116+990	1	O TO S	5	460 mm 🗰 RCPC						117+630	117+660	s	30	510 mm 🖸 i
117+225	117+240	5	40	610 mm # RCPC	117+030		C,0,5		CIM	 					117+660		C,0,S	ł	CIM
117+240	1	0 & 5		CIM	117+030		СТОО	10	450 mm Ø RCPC					· •· · · · · · · · · · · · · · · · · ·	117+660		СТОО	10	460 mm 🖻 I
117+240		O TO S	6	460 mm # RCPC	117+030	<u> </u>	OTOS	6	460 mm # RCPC	······				· · · · · · · · · · · · · · · · · · ·	117+66D		O TO S	6	450 mm 🖸 I
117+240	117+270	5		610 mm # RCPC	117+030	117+060	5	30	610 mm # RCPC						117+710			I-910m# RCPC	
17+270	+	0 & 5		CIM	117+06D		C,D,S		CIM		<u> </u>				117+710		C,0,5		CIM
17+270		O TO S	6	460 mm Ø RCPC	117+06D	 	C TO O	10	460 mm # RCPC					·····	117+710		СТОО	10	460 mm #
17+300		0 & 5	<u>├</u> ──- ┤	CIM	117+060	<u> </u>	O TO S	6	460 mm # RCPC		<u> </u>			<u> </u>	117+710		OTOS	6	460 mm #
17+300	<u> </u>	O TO S	6	460 mm # RCPC	117+060	117+100	-	40			 					117+760			· · · · · · · · · · · · · · · · ·
	1					17+100	5		610 mm # RCPC	[117+710	11/+/60	S C D C	50	610 mm # I
117+300	117+340	S	40	610 mm # RCPC	117+090		1	-1070m#_RCP(····-		117+760		C & S		CIM
117+340	+	0 & 5	↓	CIM	117+100	 	0 & S	ļ	CIM	·					117+760		CTOS	16,5	460 mm 🕫
17+340	 	O TO S	6	460 mm Ø RCPC	117+180		C,0,S		CIM		├ ── - ···				117+760	117+800	S	40	610 mm 🖸
117+380		0 & S	<u> </u>	CIM	117+180	117+210	S	30	610 mm # RCPC						117+800		C & S	 	CIM
117+380		O TO S	6	460 mm Ø RCPC	117+204	<u> </u>	EXISTING 1	-1220m# RCP0	x 66.0m.	<u> </u>					117+800	<u> </u>	CTOS	18.5	460 mm 🔌 l
	117+420	S	40	610 mm # RCPC	117+210		S		CIM		1				117+800	117+840	s	40	610 mm 🗳

M - Center Median S - Sidewalk CIM ~ Catch Inlet Manhole

0 — Outer Separator — RCPC — Reinforced Concrete Pipe Culvert MH — Manhole

	DATE SIGNATURE		NES	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED 10/09/000000000000000000000000000000000	DEPARTMENT OF PUBLIC WORKS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM			
JAPAN INTERNATIONAL COOPERATION AGENCY	CHECKED 10/14/17 TOA CA WAS Submitted By:	· · · · · · · · · · · · · · · · · · ·	OFFICE OF THE SECRETARY	ALONG THE PAN-PHILIPPINE HIGHWAY		SCHEDULE OF	DG-04
KATAHIRA & ENGINEERS YEE YACHIYO ENGINEER CD., LTD.			(See cover sheet for Signeture) Signeture/Approvel)	(Plaridel, Cabanatuan and San Jose Bypasses)		SURFACE DRAINAGE	00-04
CD., LTD.	SUBMITTED 10/18/02 TEAM LEADER Project Birecto	NO JOSEFINA M. ALAGAR GILBERTO S. REYES M Chief, Highweya Division DIC, Director W	MANUEL M. BONDAN SIMEON A. DATUMANONG Undersecretory Secretory	CABANATUAN BYPASS - CONTRACT PACKAGE II	FULL SIZE A1		

		LEF	T SIDE	<u> </u>			RIG	IT SIDE					LE	FT SIDE		
STA	TION	LOCATION	LENGTH	TYPE OF STRUCTURE	STA	TION	LOCATION	LENGTH	TYPE OF STRUCTURE		STAT	ION	LOCATION	LENGTH	TYPE OF STRUCTURE	
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IM	СІМ				CIM	CIM	<u> </u>				CIM	CIM				
					117+84D		C&S		CIM							
					117+840		C TO S	18.5	460 mm # R0					-	<u> </u>	
		-			117+840	117+880	S C&S	40	610 mm # RC CIM							
	+	-	· · · ·		117+880		C TO S	18.5	460 mm # RC	PC						
					117+920		CkS		CIM					····		
			[117+920	1	C 70 S	18.5	460 mm ¢ R0	2PC						
					117+920	117+955	S	35	610 mm ≇ RC	PC						
_	1				117+958		·	2-1220m# RCP	+- · · · · · · · · · · · · · · · · · · ·							
					117+955		0 & S		CIM			· • · • · · · · ·	··· ···		-	
			·		118+060		C&S CTOS	10.5	CIM 460 mm # RC					-		·
				··	118+082		EXISTING	1-1070m# RCP	·····	<u> </u>						
					11B+100	<u>.</u>	C & S		CIM			···· · · ·				
-			-	<u> </u>	11B+100		C TO S	13	460 mm # RC	CPC						
					118+140		C&S		CIM			· · · · ·				
					118+140		CTOS	13	460 mm ¢ R0	CPC		<u> </u>			<u> </u>	
		_			118+180		c		CIM	<u></u>				_		
					118+180	- <u>-</u> .	C TO S	10 1-910m# RCP(460 mm ≠ R0							
				[118+220		C		CIM					+		
	+				118+220		C TO S	10	460 mm # R0	PC		· · ·				
-					118+260		С		CIM							
_					118+260		C TO S	10	460 mm # RC	CPC						
					118+300		C	[CIM							
					118+300		C TO S	10	460 mm # R0	CPC						
					118+340		C C	10	CIM							
<u>-</u>					118+340 118+380		СТОБ	10	460 mm # RC CiM					+		
		-	+	<u> </u>	118+380		C TO S	10	460 mm # R0	CPC					<u> ···</u>	
					118+395			1-910m≢ RCP	.–							
			-		118+785		EXISTING	1-910m# RCP	C x 45.0m.							
					118+900		EXISTING	1-910m# RCP	C x 47.0m.							
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LEGEN M Q	- Center Me - Outer Sep	arator R	i – Siden ICPC – Reint	forced Concrete Pipe Culvert	MH – Manhole							·····) Location :		SCALE
	· _]	KA			SICHATURE .		DE DE		EPUBLIC OF THE PHILIPPINE		YS				DESIGN STUDY ON	
	INTERNATIONA	AL COOPER		CY CHECKED 12 (und a)	- MAKIN	PJHL - PMO tied By:	Reviewed By:	BUREAU OF D	ESIGN		THE SECRETARY Approved By: (See cover Signature	r short for	UPGR/ ALC (Plaric	ADING INTER-UP ING THE PAN-I Iel, Cabanatuan	DESIGN STUDY ON RBAN HIGHWAY SYSTEM PHILIPPINE HIGHWAY and San Jose Bypasses)	
	HIRA & ENGINEER: RNATIONAL	~ yet	CO., LTD.	SUBMITTED 10/18/67	TEAM LEADER	NILO C. TRAJANO Project Director	JOSEFINA Chief, High	M. ALAGAR	GILBERTO S. REYES MAI	Signature) NUEL M. BONCAN Undersecretary	SIMÉON A	/Approvol) DATUMANONG Intery	CABANAT	UAN BYPASS	- CONTRACT PACKAGE II	FUL

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		RIGH	IT SIDE		
STA	TION	LOCATION	LENGTH	T STI	YPE OF RUCTURE
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	່		ULE OF DRAINAGE		DG-05
JLL SIZE A1					