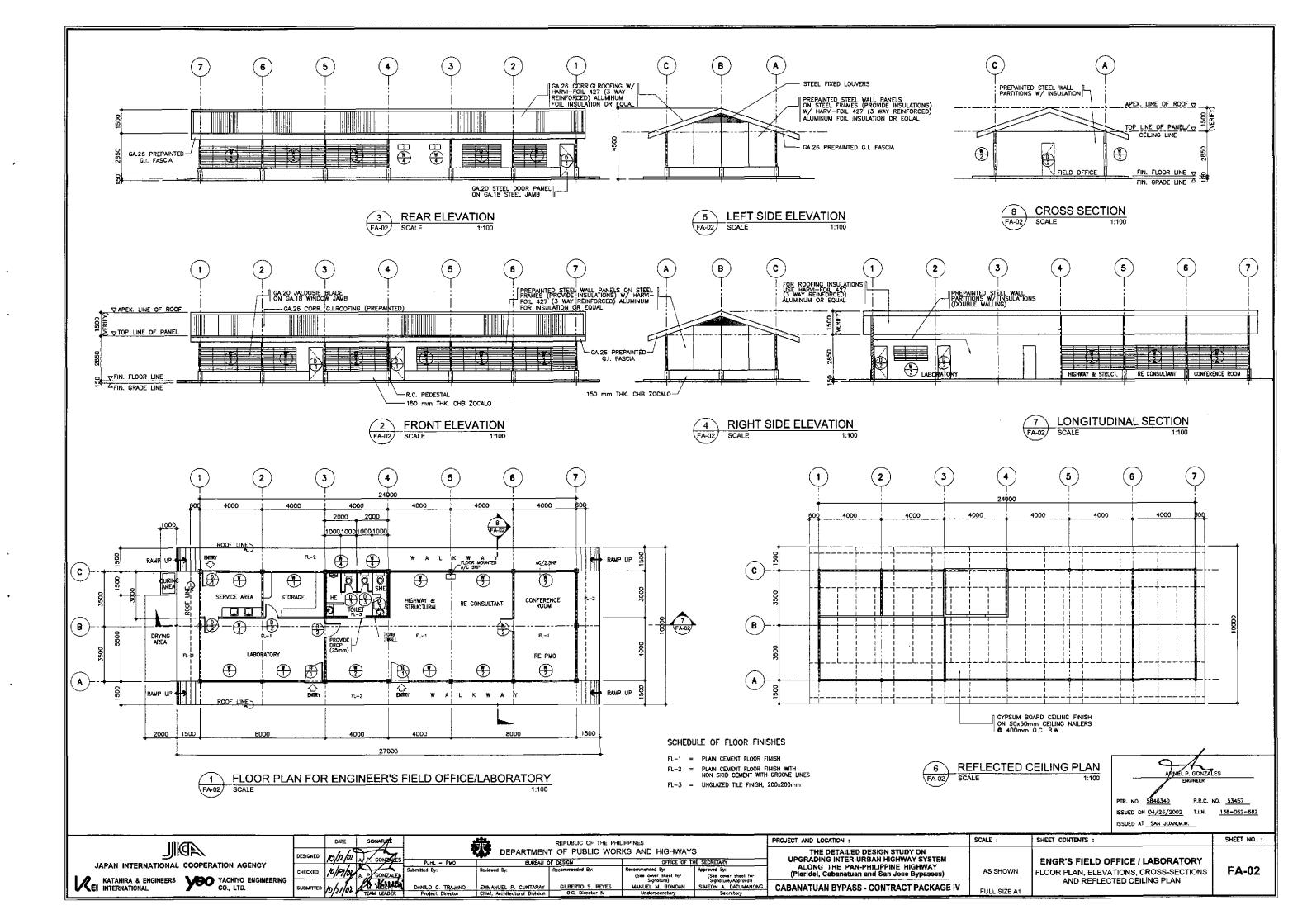
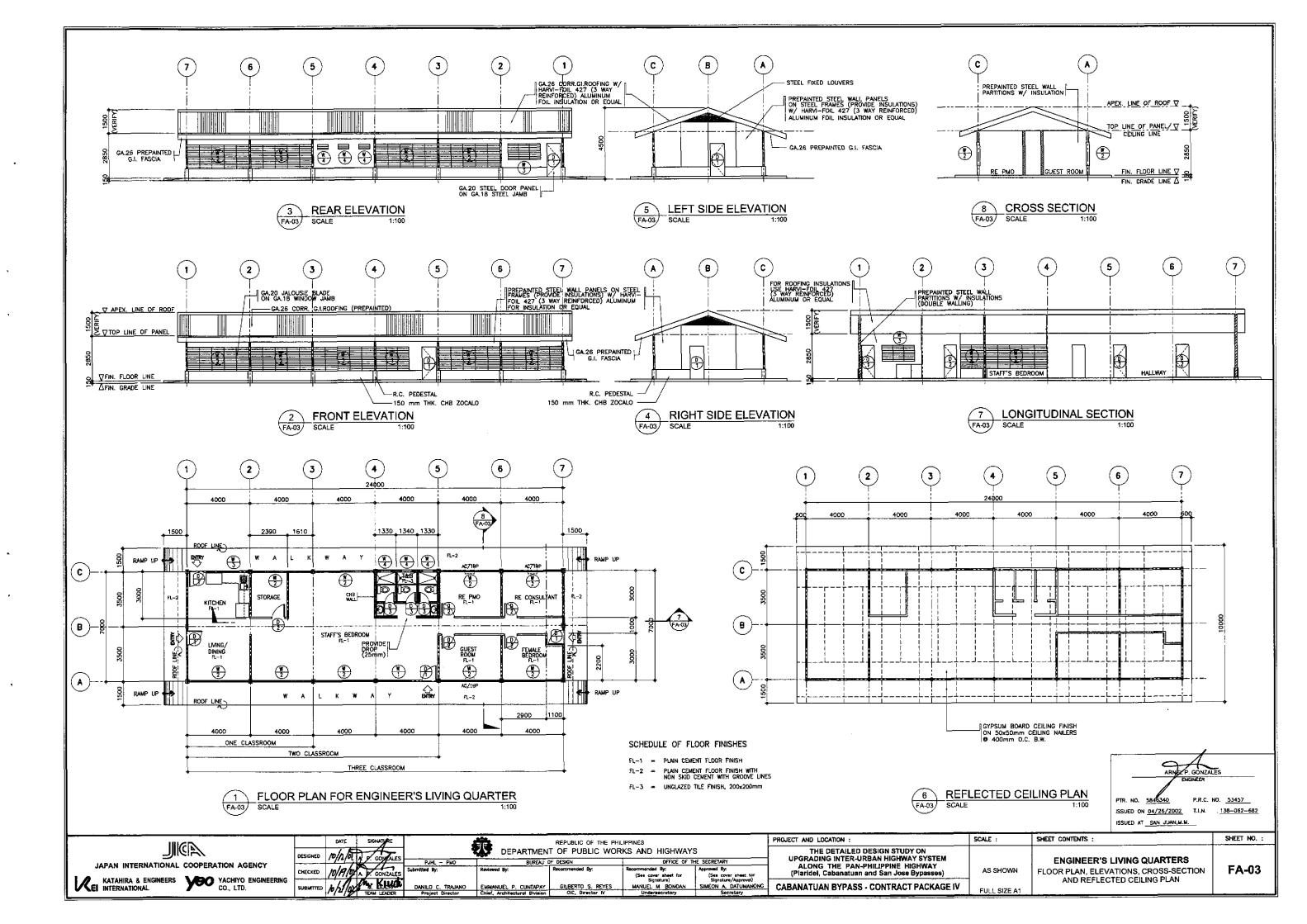
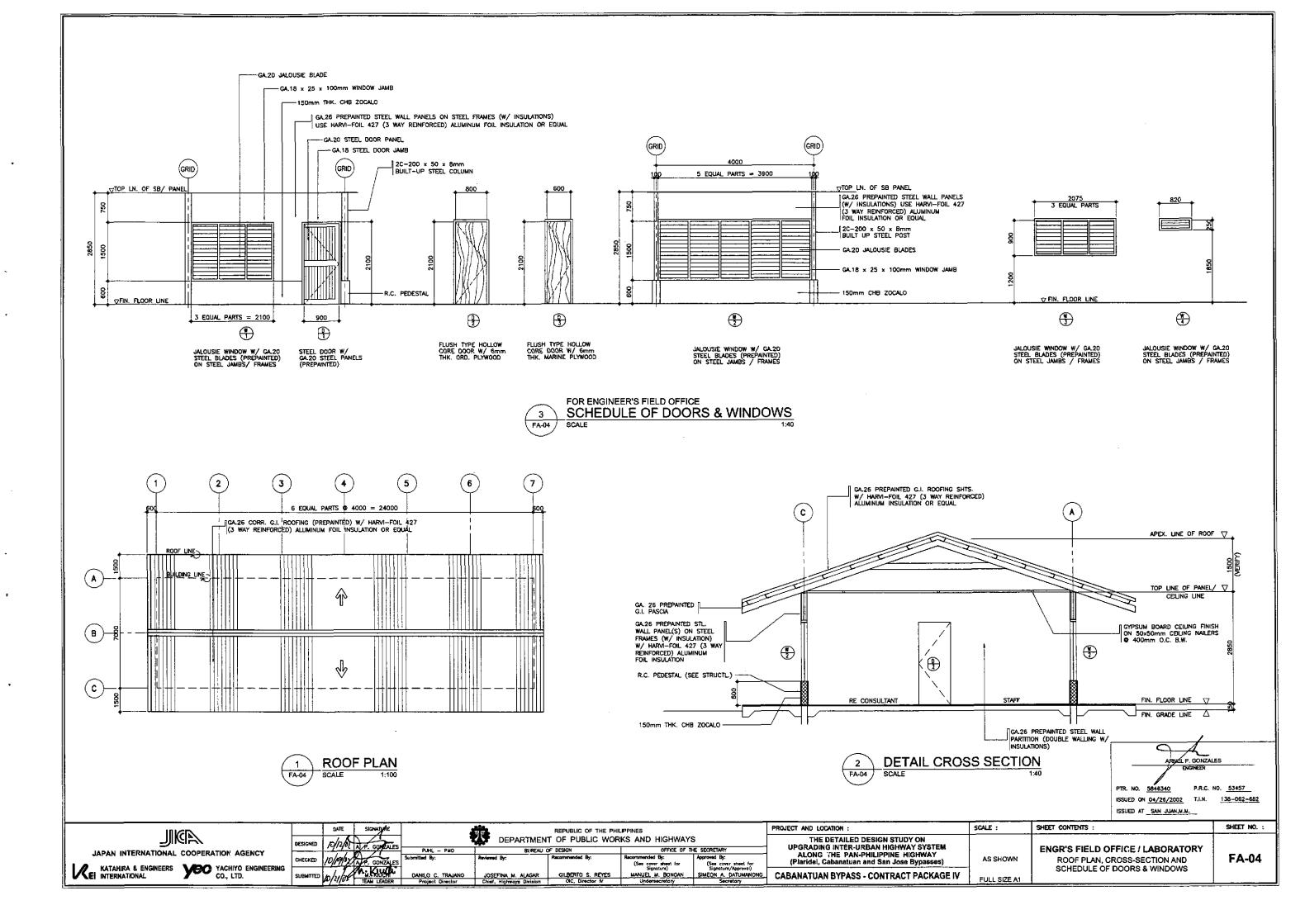
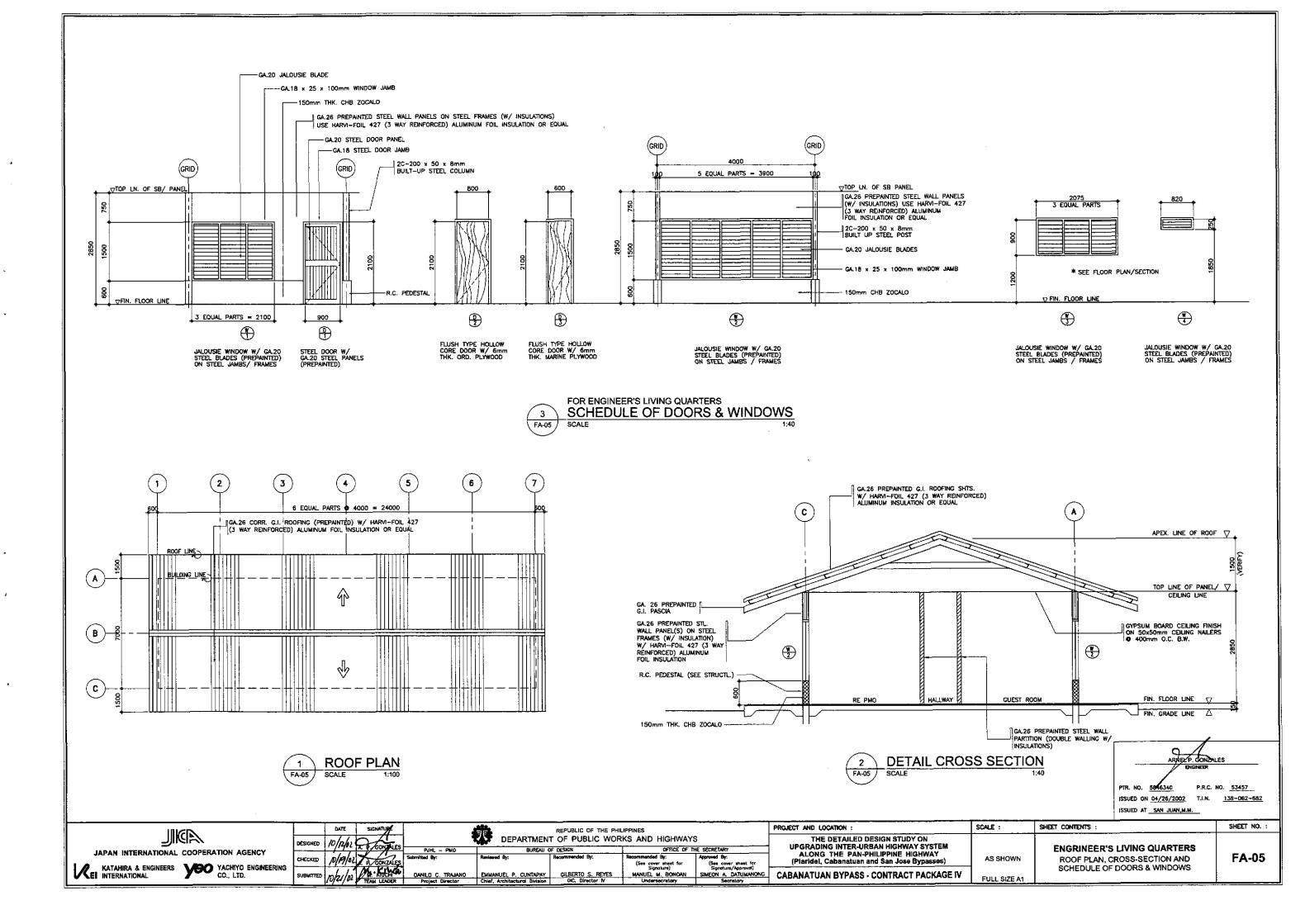


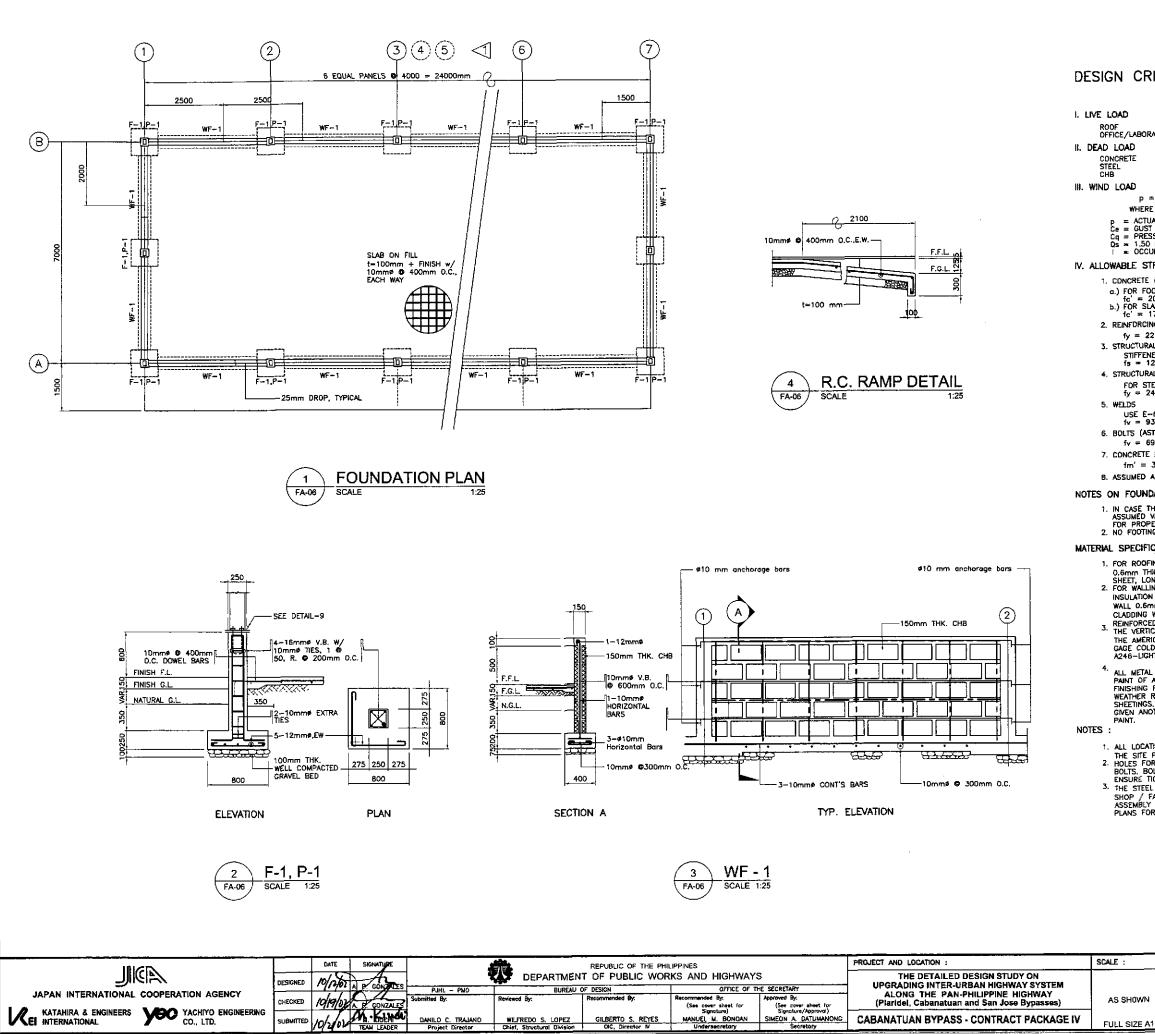
		REPUBLIC OF THE OFFICE OF THE MU ENGINEER / BUIL	INICIPAL / CITY			
	TABLE OF CONTENTS					
ADCOUNT	ECTURAL :					
FA-01 F	PERSPECTIVE ABLE OF CONTENTS	LAND USE and	ZONING			
	ENGINEER'S FIELD OFFICE/LABORATORY FLOOR PLAN FRONT & REAR ELEV. LEFT & RIGHT SIDE ELEV. LONGITUDINAL & CROSS SECT. REFLECTED CEILING PLAN					
	ENGINEER'S LIVING QUARTERS FLOOR PLAN FRONT & REAR ELEV. LEFT & RIGHT SIDE ELEV. LONGTUDINAL & CROSS SECT. REFLECTED CEILING PLAN	LINE and	GRADE			
	ENGINEER'S FIELD OFFICE/LABORATORY ROOF PLAN DET. CROSS SECTION SCHEDULE OF DOORS & WINDOWS					
	Engineer's living quarters Roof Plan Det. Cross Section Schedule of Doors & Windows					
FA-D6	TURAL: FOUNDATION PLAN, R.C. RAMP DETAUL DET. OF F-1, P-1, WF-1 DESIGN CRITERIA	ARCHITECT	URAL			
	ENGINEER'S FIELD OFFICE/LABORATORY ELEV. OF STEEL STUD FRAMES FRAMES SCHEMATIC DIAGRAMS					
	ENGINEER'S LIVING QUARTERS ELEV. OF STEEL STUD FRAMES FRAMES SCHEMATIC DIAGRAMS					
	ENGINEER'S FIELD OFFICE/LABORATORY REAR AND LEFT SIDE ELEVATION OF STEEL STUD FRAMES, AND SCHEMATIC DIAGRAMS	STRUCTURAL				
	ENGINEER'S LIVING QUARTERS REAR AND LEFT SIDE ELEVATION OF STEEL STUD FRAME, AND SCHEMATIC DIAGRAMS					
	DETAIL CONNECTIONS, DETAILS 1 TO 15					
	ROOF FRAMING PLAN SCHEM.DIAGRAM ( INT. WALLS ) PURLIN CONNECTION CROSS BRACING CONNECTION	SANITARY				
ELECTI	RICAL :					
	ENGINEER'S FIELD OFFICE/LABORATORY LIGHTING LAYOUT POWER LAYOUT ELECT'L, SYMBOLS & GEN, NOTES					
	Engineer's living quarters Lighting layout Power layout Elect'l, symbols & gen, ngtes	ELECTRICAL				
	SCHEDULE OF LOADS AND COMPUTATIONS ELECT'L. RISER DIAGRAMS					
PLUME	SING :					
	SEWER AND WATER LINE LAYOUT ISOMETRIC DIAGRAM					
02	SEPTIC TANK DETAILS	MECHANICAL				
EXTER	NAL : PLOT PLAN					
1.201	EUT - FENCE & GATE FOUNDATION DETAIL					
	SHEET CONTENTS :		SHEET NO. :			
SCALE	ENGINEER'S FIEL AND LIVING QU/ PERSPECTIVE TABLE OF CON	ARTERS AND	FA-01			









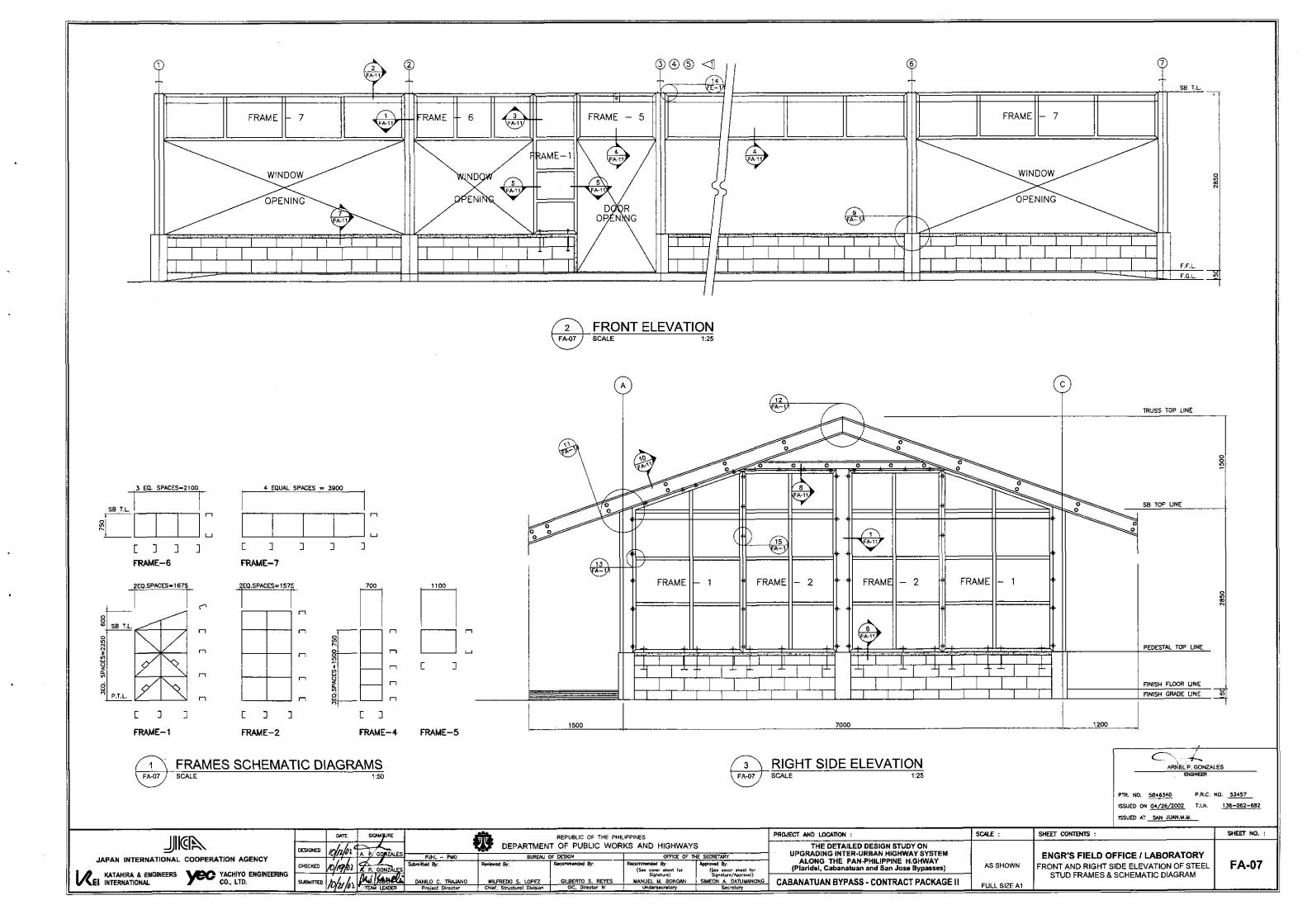


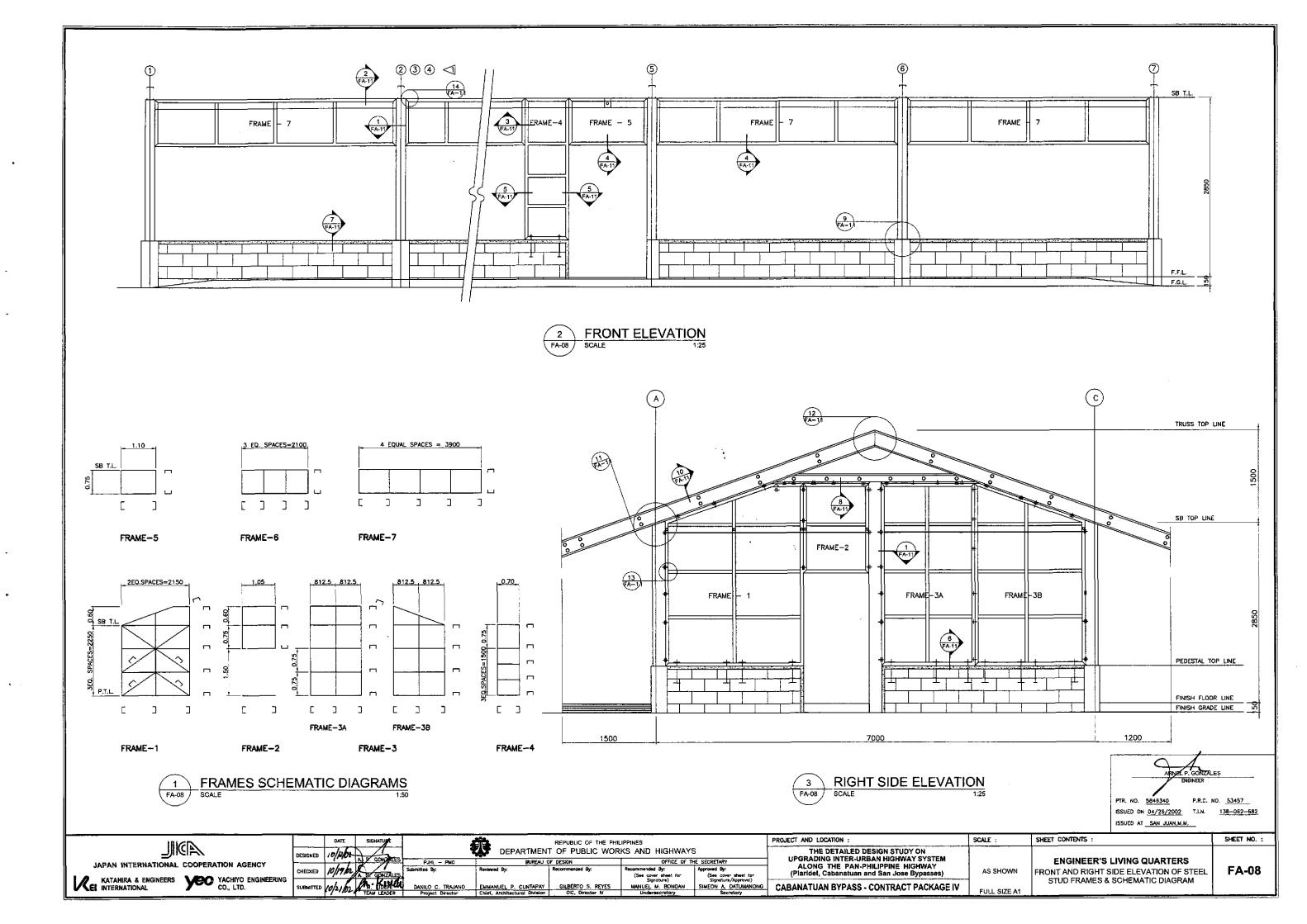
## DESIGN CRITERIA :

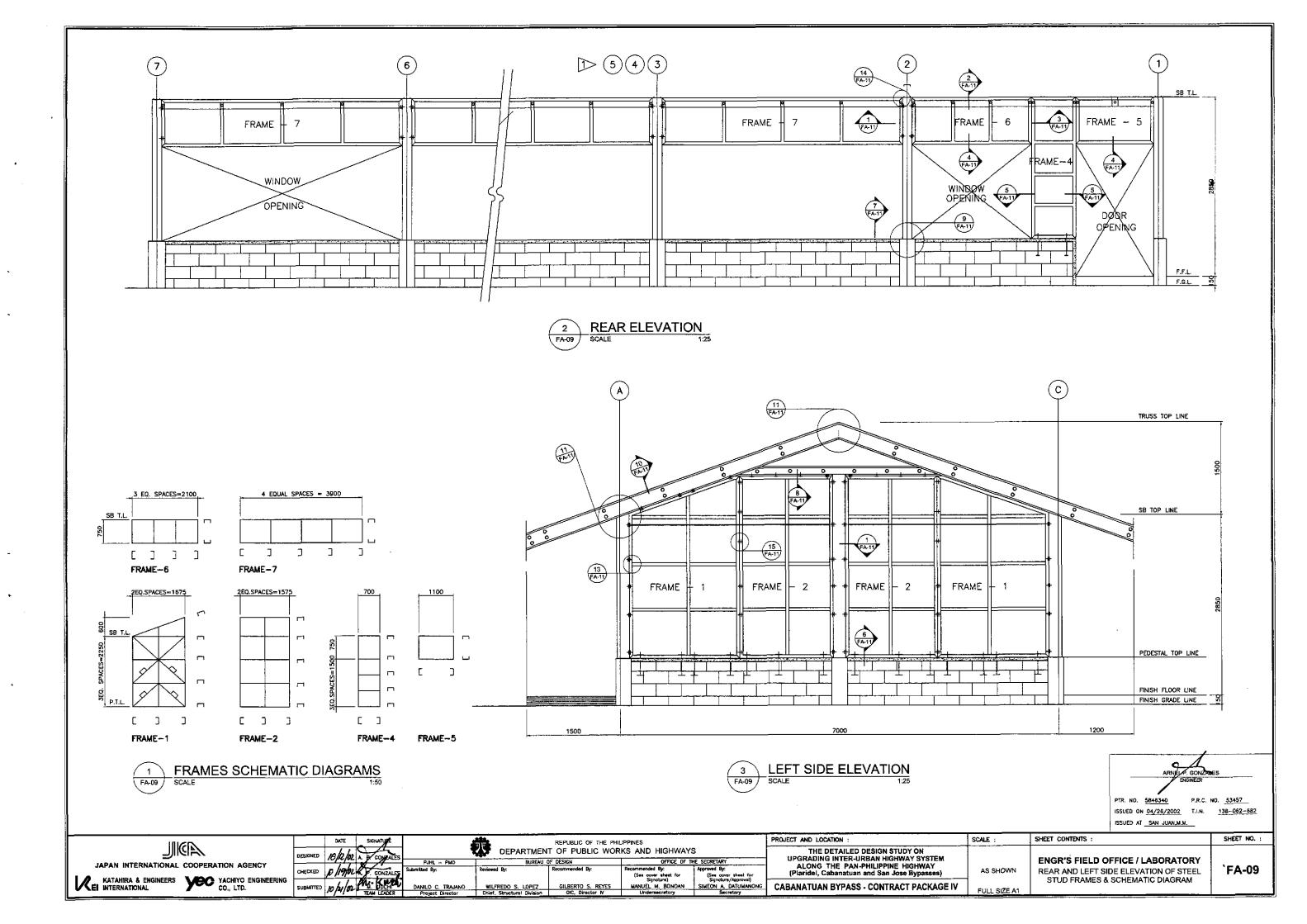
0.58 KPo 2.40 KPo ROOF OFFICE/LABORATORY 24 KN/m<sup>3</sup> 76.10 KN/m<sup>3</sup> 2.73 KPa p ≃ Ce Cq Qs I WHERE : IV. ALLOWABLE STRESSES 1. CONCRETE (ALLOWABLE COMPRESSIBLE STRENGTH @ 28 DAYS) a.) FOR FOOTINGS AND PEDESTAL COLUMN fc' = 20.70 mpa fc = 9.31mpa b.) FOR SLAB ON FILL fc' = 17.26 mpa fc = 7.76mpa 2. REINFORCING STEEL BARS (STRUCTURAL GRADE 33 DEFORMED BARS) fy = 227.0 mpg fst = 124.02 mpg 3. STRUCTURAL LIGHT GAGE COLD FORMED STEEL STIFFENED LIGHT GAGE CHANNEL FOR RAFTERS, STUD & WALLS fs = 124.0 mpg (18.000 psi) 4. STRUCTURAL BUILT-UP STEEL PLATES (ASTM A-36) FOR STEEL BOX COLUMN fy ≈ 248.0 mpa (36,000 psi) USE E-60 XX ELECTRODES fv = 93.76 mpg 6. BOLTS (ASTM A-307) fy = 69 mpa fst = 96.60 mpa 7. CONCRETE MASONRY UNITS (NON-LOAD BEARING CHB) fm' = 3.41 mpa (500 psi) B. ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 95.76 KPg (2,000 psf) NOTES ON FOUNDATION : 1. IN CASE THE ACTUAL SOIL BEARING PRESSURE IS FOUND LESS THAN THE ASSUMED VALUE OF 95.76 KPO, NOTIFY THE DIRECTOR, BUREAU OF DESIGN FOR PROPER REVISION OF FOOTINGS. 2. NO FOOTINGS SHALL REST ON FILL. MATERIAL SPECIFICATIONS : 1. FOR ROOFING SHEETS : FOR ROOFING SHEETS:
O.GMM THICK (GA.26) PREPAINTED CORRUGATED G.I. ROOFING SHEET, LONG SPAN.
FOR WALLING SHEETS: USE ALUMINUM FOIL INSULATION HARVI-FOIL 427 (3-WAY REINFORCED OR EQUAL). DOUBLE WALL 0.6MM THICK (GA.26) HIGH TENSILE STEEL SHEET WALLING/ CLADDING W/ ALUMINUM FOIL FOR INSULATION. HARVI-FOR. 427 (3-WAY REINFORCED OR EQUAL). BASE STEEL WITH 550 MPO YIELD STRESS.
THE VERTICAL AND HORIZONTAL STUDS AND RAFTERS SHALL CONFORM WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI), SPECIFICATION OF LIGHT GAGE COLD-FORMED STEEL STRUCTURAL MEMBERS AS PER ASTM A246-LIGHT GAGE STRUCTURAL QUALITY FLAT ROLLED CARBON STEEL SHEET. ALL METAL PARTS SHALL BE GIVEN TWO(2) COATS DF ANTI-CORROSIVE PAINT OF APPROVED QUALITY WITH A MINIMUM TOTAL THICKNESS OF 3mm. FINISHING PAINT SHALL BE 2-COATS OF GLOSS OF APPROVED QUALITY, WEATHER RESISTANT AND OF THE SAME COLOR AS THE PREPAINTED SHETINGS. BASE OF SIDINGS AND DOOR AND WINDOW JAMES SHALL BE GIVEN ANOTHER TWO COATS OF BROWN OR MAHOGANY COLORED ENAMEL PAINT. 1. ALL LOCATION OF ANCHOR BOLTS AND BOLT HOLES SHALL BE VERIFIED ON ALL LUCHING OF ANCHOR BOLTS AND BOLT HOLLS STALL BE VERTICE STATE BOLTS INTO INSTALLATION / ASSEMBLY.
HOLES FOR ALL BOLTS SHALL BE FITTED WITH STANDARD NUTS AND WASHERS TO ENSURE TIGHT FIT. ENSURE HIGHT FH. 3. THE STEEL MANUFACTURER / FABRICATOR / CONTRACTOR SHALL SUBMIT SHOP / FABRICATION DRAWINGS TO INCLUDE MATERIAL SCHEDULES, ASSEMBLY PROCEDURE, CONNECTIONS AND SPLICES AS PER APPROVED PLANS FOR REVIEW AND APPROVAL OF THE DIRECTOR, BUREAU OF DESIGN.  $\frown$ RNEL P. GONZALES PTR. NO. 5846340 P.R.C. NO. 53457 ISSUED ON 04/26/2002 T.I.N. 138-062-682 ISSUED AT SAN JUAN,M.M. SHEET CONTENTS : SHEET NO. : ENGINEER'S FIELD OFFICE AND LIVING QUARTERS FA-06

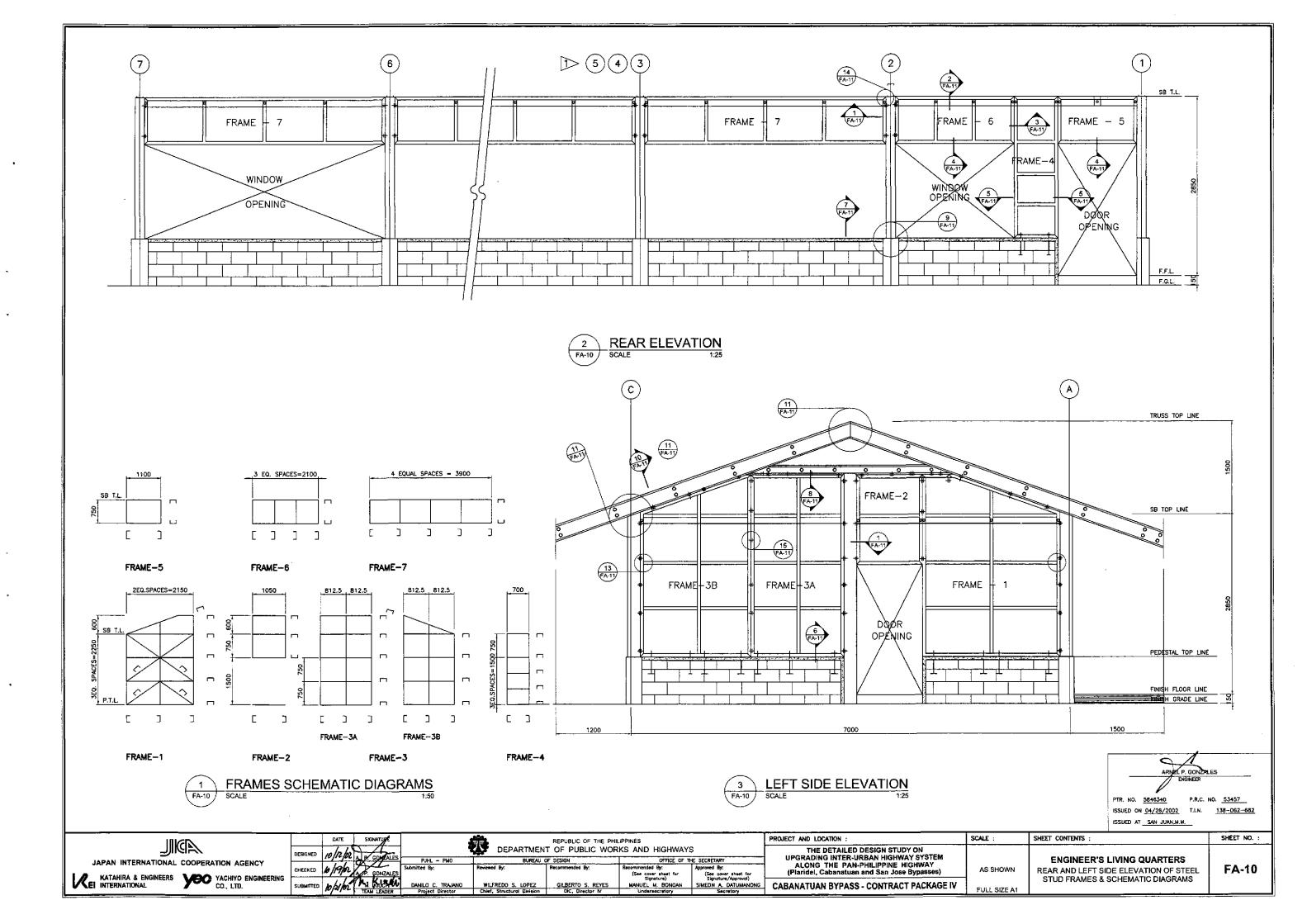
FOUNDATION PLAN, R.C. RAMP, DETAILS OF

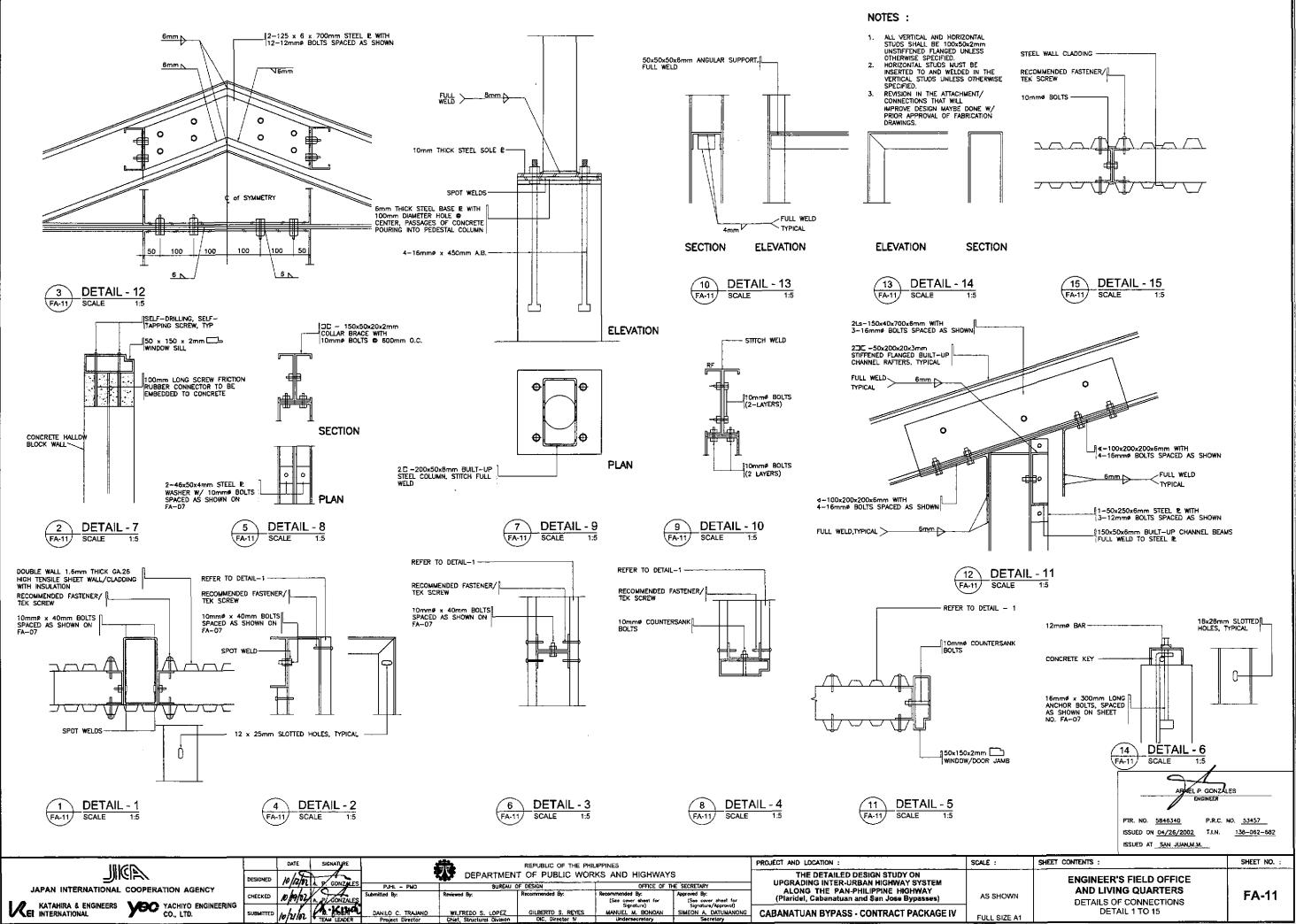
F1, P-1 & WF1 AND DESIGN CRITERIA



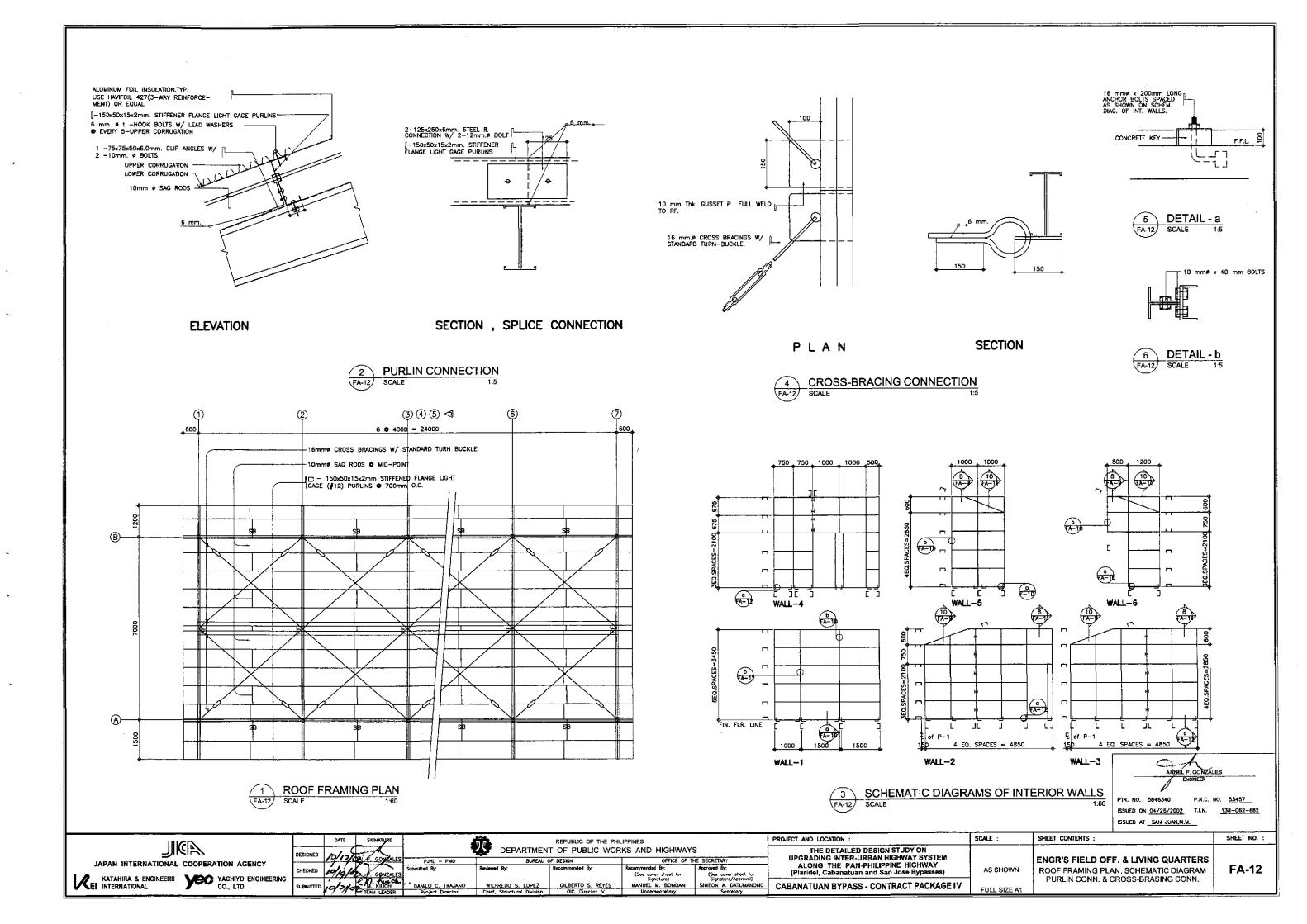


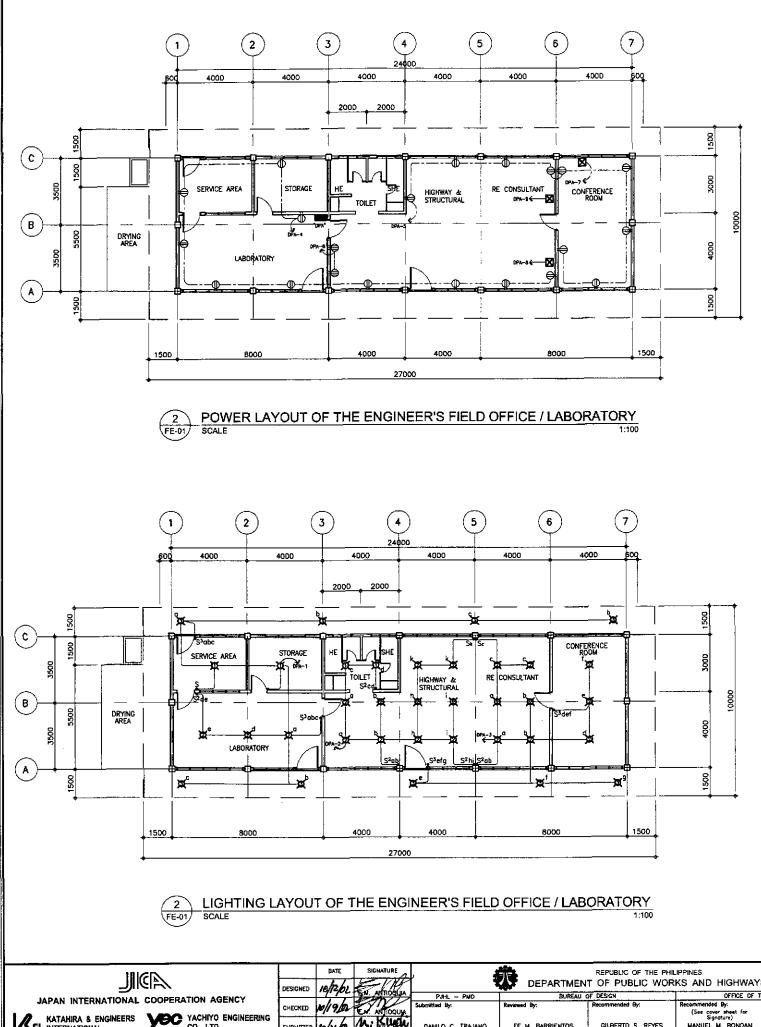






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## GENERAL NOTES:

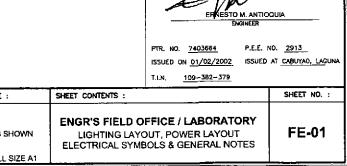
- 1. ALL ELECTRICAL WORKS SHALL BE DONE IN STRICT COMPLIANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHIL. ELECT. CODE, EXISTING APPLICABLE ORDINANCES, RULES AND REGULATIONS OF THE LOCAL GOVERNMENT AND THE REQUIREMENTS OF THE POWER COMPANY.
- 2. THE TYPE OF POWER SERVICE TO USED SHALL BE SINGLE-PHASE 2-WIRE, 240 VOLTS, 60Hz, AC.
- 3. ALL WIRINGS SHALL BE INSTALLED IN STANDARD GALVANIZED RIGID STEEL CONDUIT, RUN EMBEDDED INSIDE THE CONCRETE AND HOLLOW BLOCK STRUCTURES, SLABS, COLUMNS, WALLS PARTITIONS AND/OR RUN BETWEEN DOUBLE WALL WOODED PARTITIONS OR INSIDE THE CEILING SPACES.
- 4. ALL LIGHTING CIRCUIT HOMERUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LESS THAN 3.5mm IN SIZE.
- 5. THE MINIMUM SIZES OF WIRE AND CONDUIT TO BE USED SHALL BE 2.0mm2 AND 15mm NOMINAL DIAMETER, RESPECTIVELY.
- 5. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE IV OF THE PHIL. ELECT. CODE, PART I, LATEST EDITION.
- 7. WHENEVER REQUIRED AND NECESSARY, PULL BOXES OF PROPER SIZES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATIONS, ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN IS NOR MENTIONED IN THE SPECIFICATIONS.
- 8 ALL WALL OUTLETS SHALL BE INSTALLED AT THE FOLLOWING HEIGHT ABOVE THE FINISHED FLOOD LEVEL, UNLESS OTHERWISE NOTED.

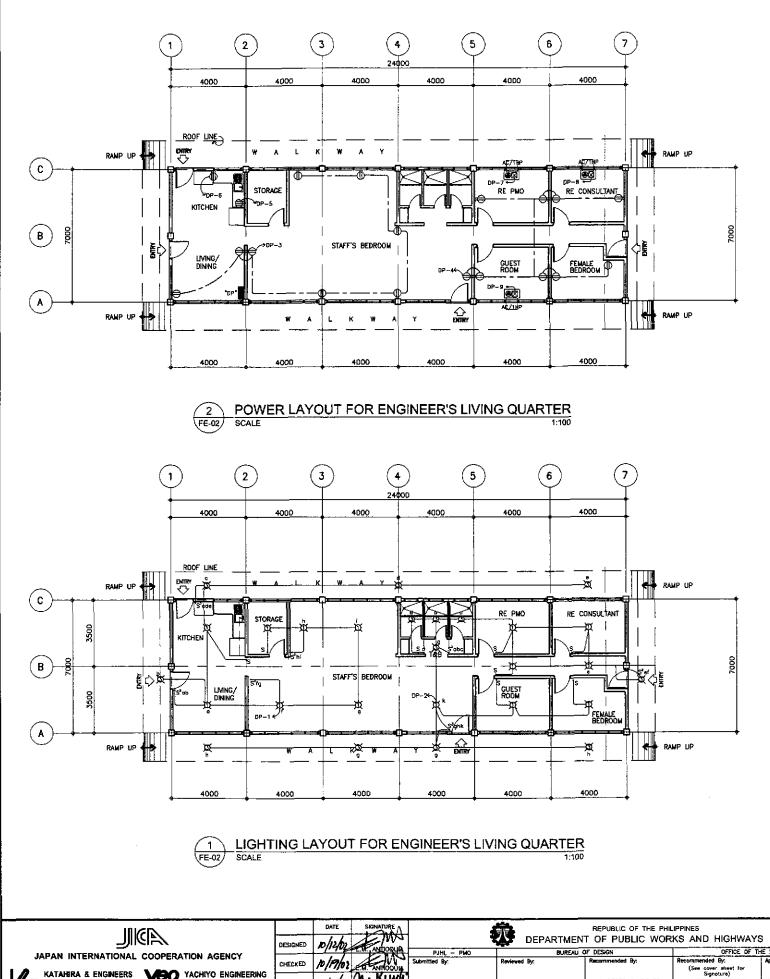
- 9 STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATORS AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- 10 ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSE.
- 11 THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF THE SERVICE ENTRANCE FOR CONNECTION TO POWER COMPANY SERVICE POINT.
- 12 ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE STRICT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

		DATE	SIGNATURE			REPUBLIC OF THE PHI	LIPPINES		PROJECT AND LOCATION :	SCALE :
<u> A</u> DIL	DESIGNED	ietzbi	E-IN			T OF PUBLIC WOR			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM	
JAPAN INTERNATIONAL COOPERATION AGENCY	I	7.700	ANNOQUA	PUHL - PND	BUREAU (	OF DESIGN	OFFICE OF	THE SECRETARY	ALONG THE PAN-PHILIPPINE HIGHWAY	
	CHECKED	19/19/22	EN ANTIDOUS	Submitted By:	Reviewed By:	Recommended By:	Recommended By: (See cover sheet for	Approved By: (See cover sheet for	(Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOW
KATAHIRA & ENGINEERS YOC YACHIYO ENGINEERING CO., LTD.	SUBMITTED	10/4/02	Mr. Kallen	DANILO C. TRAJANO	FE M. BARRIENTOS	GILBERTO S. REYES	Signature) MANUEL M. BONDAN	Signature/Approval) SIMEON A. DATUMANONG	CABANATUAN BYPASS - CONTRACT PACKAGE IV	FULL SIZE
		-1.1.	TEAM LEADER	Project Director	Chief, Mechanical-Elect <sup>1</sup> . Div.	OIC, Director N	Undersecretory	Secretary		

#### NOTE:

ALL FLUORESCENT LIGHTING FIXTURES SHALL BE EQUIPPED WITH A HIGH POWER FACTOR PRE-HEAT WITH STARTER TYPE BALLAST, COMPLETE WITH ALL NECESSARY ACCESSORIES, WIRED AND READY FOR SERVICE USED. ELECTRICAL SYMBOLS: CEILING LIGHT; REFER TO SCHEDULE OF LIGHTING FIXTURES AND LAMPS p ELECTRICAL RISER S ONE-WAY WALL SWITCH, 15A, 250V 2 ONE-WAY WALL SWITCHES ON ONE-GANG PLATE, ޲ 15A, 250V 3 ONE-WAY WALL SWITCHES ON ONE-GANG PLATE. S³ 15A. 250V DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, € 20A. 250V HEAVY DUTY CONVENIENCE OUTLETS, ⊜ SINGLE-GROUNDING TYPE, 30A, 250V AIR CONDITIONING OUTLET GROUNDING TYPE WITH AUTOMATIC CIRCUIT BREAKER IN ONE ENCLOSURE ENCLOSED AUTOMATIC CIRCUIT BREAKER (ACB) 70AT, 100AF, 2P, 240V  $\boxtimes$ DISTRIBUTION PANEL BOARD PULL BOX OR JUNCTION BOX 0 ELECTRIC SERVICE METER -C PROPOSED SERVICE ENTRANCE WITH CAP - CONCEALED OR EMBEDED CONDUIT RUN ------ UNDERGROUND OR UNDER FLOOR CONDUIT RUN -> CIRCUIT HOMERUN TO PANEL BOARD





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#### **GENERAL NOTES:**

- ALL ELECTRICAL WORKS SHALL BE DONE IN STRICT COMPLIANCE WIT PROVISIONS OF THE LATEST EDITION OF THE PHIL. ELECT. CODE, EX APPLICABLE ORDINANCES, RULES AND REGULATIONS OF THE LOCAL GOVER AND THE REQUIREMENTS OF THE POWER COMPANY.
- THE TYPE OF POWER SERVICE TO USED SHALL BE SINGLE-PHASE 2 240 VOLTS, 60Hz, AC.
- 3. ALL WIRINGS SHALL BE INSTALLED IN STANDARD GALVANIZED RIGID CONDUIT, RUN EMBEDDED INSIDE THE CONCRETE AND HOLLOW I STRUCTURES, SLABS, COLUMNS, WALLS PARTITIONS AND/OR RUN BE DOUBLE WALL WOODED PARTITIONS OR INSIDE THE CEILING SPACES.
- 4. ALL LIGHTING CIRCUIT HOMERUNS AND CONVENIENCE OUTLETS SHALL BE WITH NOT LESS THAN 3.5mm IN SIZE.
- 5. THE MINIMUM SIZES OF WIRE AND CONDUCT TO BE USED SHALL BE AND 15mm NOMINAL DIAMETER, RESPECTIVELY.
- 6. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISIONS OF ART OF THE PHIL, ELECT, CODE, PART I, LATEST EDITION.
- WHENEVER REQUIRED AND NECESSARY, PULL BOXES OF PROPER SIZES SH. INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATIONS, ALTHOUGH BOXES ARE NOT SHOWN ON THE PLAN IS NOR MENTIONED IN THE SPECIFICATIONS.
- 8 ALL WALL OUTLETS SHALL BE INSTALLED AT THE FOLLOWING HEIGHT ABO FINISHED FLOOD LEVEL, UNLESS OTHERWISE NOTED.
  - .....<u>1</u>200 mm A. WALL SWITCHES
- 9 STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATORS AND APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE
- 10 ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APP TYPE FOR THE LOCATION AND PURPOSE.
- 11 THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO POWER COMPANY SERVICE PO
- 12 ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE STRICT SUPERVISI A DULY REGISTERED ELECTRICAL ENGINEER.

		DATE	SKINATURE A			REPUBLIC OF THE PHI	LIPPINES		PROJECT AND LOCATION :	SCALE :
JIMA	DESIGNED	10/12/02	E.M. ANDORUA	PJHL - PMO		T OF PUBLIC WOR	KS AND HIGHWAY	S HE SECRETARY	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM	
	CHECKED	10/19/02	ETM. ANTIOOUN	Submitted By:	Reviewed By:	Recommended By:	Recommended By: (See cover sheet for	Approved By: (See cover sheet for	ALONG THE PAN-PHILIPPINE HIGHWAY (Plaride), Cabanatuan and San Jose Bypasses)	AS SHO
KATAHIRA & ENGINEERS YOO YACHIYO ENGINEERING CO., LTD.	SUBMITTED	10/21/02	TEAM LEADER	DANILO C. TRAJANO Project Director	FE M. BARRIENTOS	GILBERTO S. REYES	Signoture) MANUEL M. BONDAN Undersecretary	Signature/Approval) SIMEON A. DATUMANONG Secretary	CABANATUAN BYPASS - CONTRACT PACKAGE IV	FULL SIZ

## NOTE:

	NUL.	
TH THE XISTING RNMENT	EQUIPPED WITH STA NECESSAF	DRESCENT LIGHTING FIXTURES SHALL BE ) WITH A HIGH POWER FACTOR PRE-HEAT RTER TYPE BALLAST, COMPLETE WITH ALL RY ACCESSORIES, WIRED AND READY FOR
2-WIRE,	SERVICE	USED.
steel Block Etween	ELECT	RICAL SYMBOLS:
Wired	¤	CEILING LIGHT; REFER TO SCHEDULE OF LIGHTING FIXTURES AND LAMPS
	•	ELECTRICAL RISER
2.0mm²	S	ONE-WAY WALL SWITCH, 15A, 250V
ishall Ficle IV	S²	2 ONE-WAY WALL SWITCHES ON ONE-GANG PLATE, 15A, 250V
HALL BE	S3	3 DNE-WAY WALL SWITCHES ON ONE-GANG PLATE, 15A, 250V
SUCH	⊜	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 20A, 250V
OVE THE	₽	HEAVY DUTY CONVENIENCE OUTLETS, SINGLE-GROUNDING TYPE, 30A, 250V
		AIR CONDITIONING OUTLET GROUNDING TYPE WITH AUTOMATIC CIRCUIT BREAKER IN ONE ENCLOSURE
UIPMENT	$\boxtimes$	ENCLOSED AUTOMATIC CIRCUIT BREAKER (ACB) 70AT, 100AF, 2P, 240V
other Used.		DISTRIBUTION PANEL BOARD
PROVED		PULL BOX OR JUNCTION BOX
	0	ELECTRIC SERVICE METER
OF THE OINT.		PROPOSED SERVICE ENTRANCE WITH CAP
SION OF		CONCEALED OR EMBEDED CONDUIT RUN
		UNDERGROUND OR UNDER FLOOR CONDUIT RUN
	>	CIRCUIT HOMERUN TO PANEL BOARD
		PTR. NO. 7403654 P.E.E. ND. 2913

ISSUED ON 01/02/2002 ISSUED AT CABUYAO, LAGUNA T.LN. 109-382-379 SHEET CONTENTS : SHEET NO. : ENGINEER'S LIVING QUARTERS FE-02 SHOWN LIGHTING LAYOUT, POWER LAYOUT ELECTRICAL SYMBOLS & GENERAL NOTES SIZE A1

## SCHEDULE OF LOADS AND COMPUTATIONS

ENGINEER'S LIVING QUARTERS

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			PANE	ELBO	)AR	D	"DP" MAIN A.C.B. : 100AF,2P, 250V 100 AT, 18 KAIC W/SOLID NEUTRAL
CRT.	I DAD DESCRIPTION			RATING OF CH BREAKER			SIZE OF HOMERUN WIRES IN CONDUIT
NO.			VOLTS	AF	Р	AT	
1	light outlets	455	220	50	2	15	2-3.5mm TW <sup>2</sup> in 15mm@C
2	LIGHT OUTLETS	640	220	50	2	15	2−3,5mm TW <sup>2</sup> in 15mmøC
3	CONVENIENCE OUTLET	1440	220	50	2	20	2-3,5mm T₩ <sup>2</sup> in 15mm¢C
4	CONVENIENCE OUTLET	1620	220	50	2	20	2-3,5mm T₩ <sup>2</sup> in 15mm#C
5	REFRIGERATOR	500	220	50	2	20	2-3.5mm TW <sup>2</sup> + 1-20mm <sup>2</sup> TW(G) IN 15mmøC
6	ELECTRIC STOVE	3000	220	50	2	30	2-5.5mm <sup>2</sup> THW+1-3.5mm <sup>2</sup> TW(G) IN 20mm#C
7	1hp,1¢ WDO,TYPE ACU	1980	220	50	2	30	2-5.5mm <sup>2</sup> THW+1-3.5mm <sup>2</sup> TW(G) IN 2Dmm#C
8	1hp,1¢ ₩DO,TYPE ACU	1980	220	50	2	30	2-5.5mm <sup>2</sup> THW+1-3.5mm <sup>2</sup> TW(G) IN 20mm#C
9	1hp,1¢ WDO,TYPE ACU	1980	220	50	2	30	2-5.5mm <sup>2</sup> THW+1-3.5mm <sup>2</sup> TW(G) IN 20mm#C
10	SPARE	1500	220	50	2	20	-
11	SPARE	1500	220	50	2	20	-
12	SPARE	1500	220	50	2	20	-
	TOTAL	18,095					

## v **9** 90% D.F. = $\frac{18095}{220}$ (0.90)+0.25(B)= 76.03 Amps

 $l_{B^{\infty}} = \frac{18095}{220}$  (0.90)+1.5(8)= 86.03 Amps MAIN ACB: 100AF,2P,250 V,100AT,15KAIC

USE : 2-38mm<sup>2</sup> THW + 1-14mm<sup>2</sup> TW(G) IN 40mmø RSC

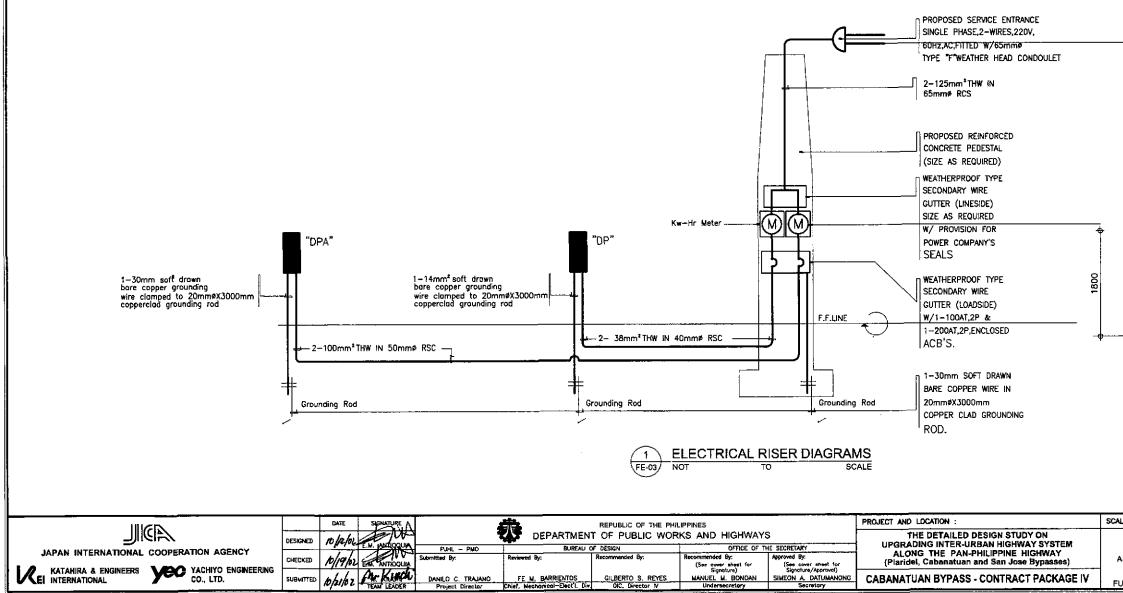
## SCHEDULE OF LIGHTING FIXTURES & LAMPS

SYMBOLS	DESCRIPTION	MOUNTING & INSTALLATION
Q	ONE (1) 40 WATTS, 220V, FLUORESCENT LIGHTING FIXTURES, BOX TYPE	SURFACE CEILING MOUNTED
Ø	ONE (2) 40 WATTS, 220V, FLUORESCENT LIGHTING FIXTURES, BOX TYPE	SURFACE CEILING MOUNTED
Q	ONE (1)-SL-1B LAMP WITH HEXLESS TYPE, MEDIUM BASE PORCELAIN RECEPTACLE	SURFACE CEILING MOUNTED

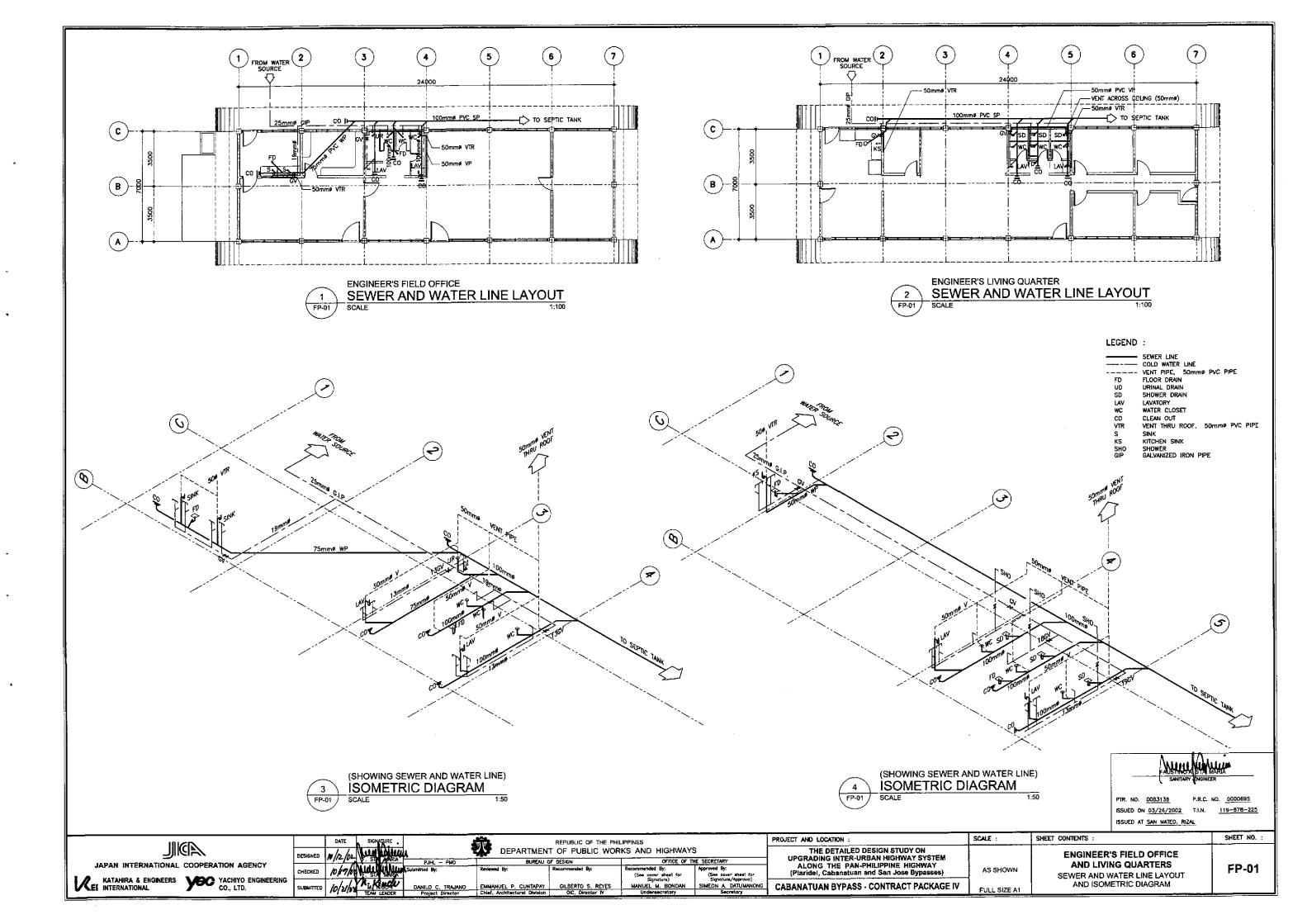
#### NOTE:

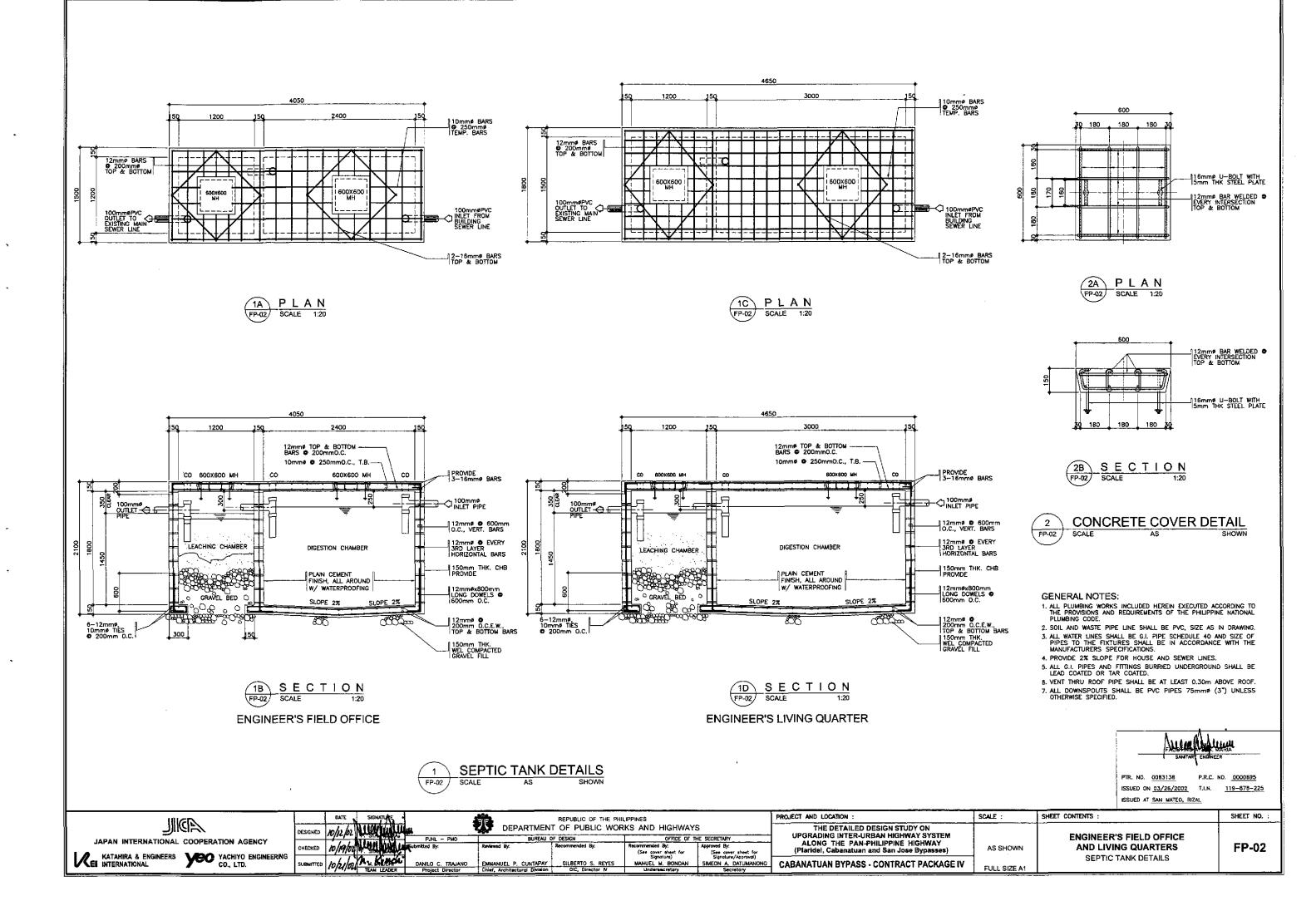
ALL FLUORESCENT LIGHTING FIXTURES SHALL BE EQUIPPED WITH A HIGH POWER FACTOR PRE-HEAT WITH STARTER TYPE BALLAS, COMPLETE WITH ALL NECESSARY ACCESSORES, WIRED AND READY FOR USE.

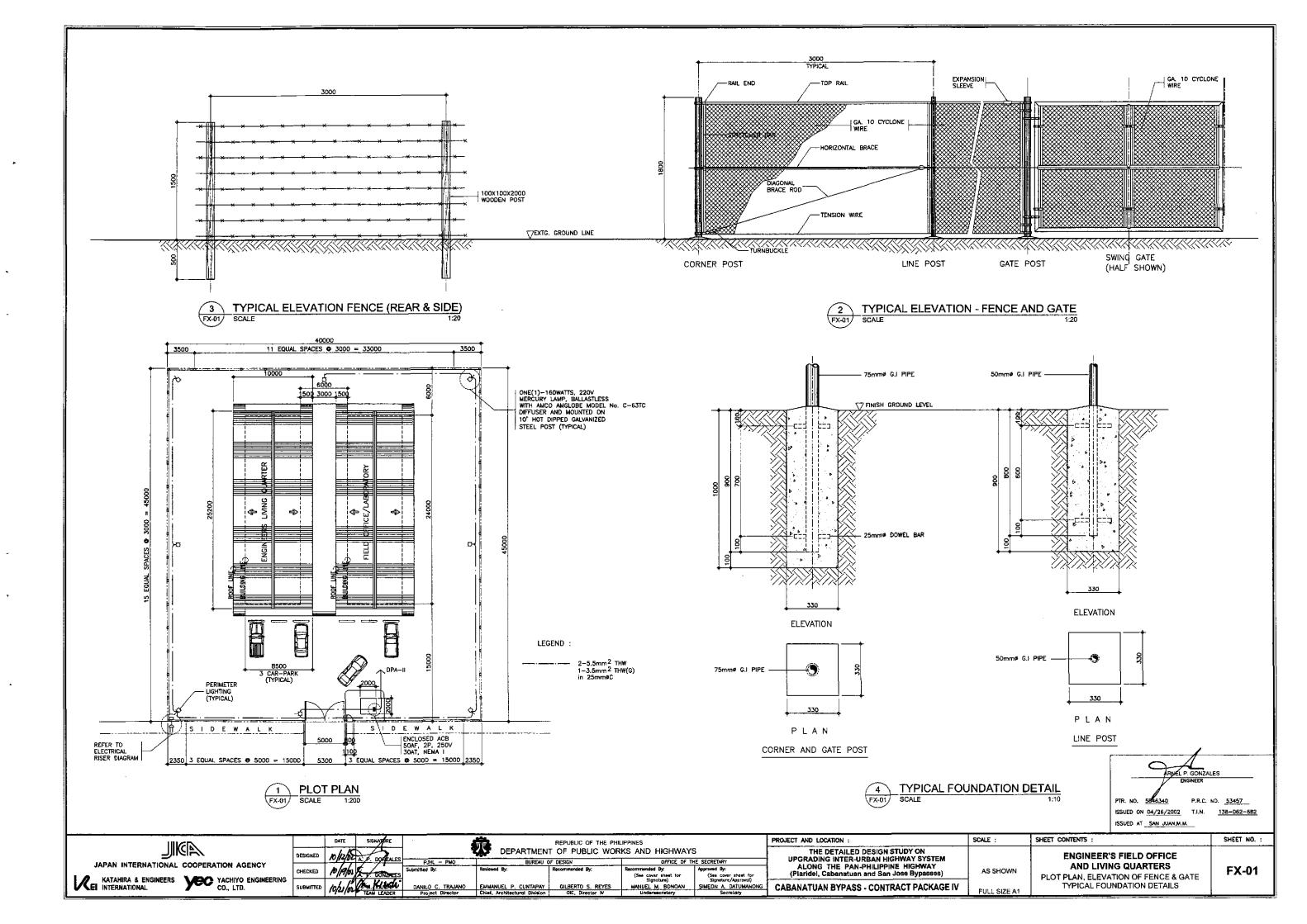
SCI	HEDULE OF LO	DADS AND	00 CO	MPU	TATIONS					
		PAI	NELBO	ARD	"DPA" MAIN A.C.B. : 225AF 200 AT, 18 KAIC W,					
CRT. NO.	LOAD DESCRIPTION	VA BRA VOL1	RATING INCH BR		SIZE OF HOMERU WIRES IN CONDU		s 2			
1	LIGHT OUTLETS	590 22	0 50	2 15	2-3.5mm TW <sup>2</sup> in 15mmøC			-100mm²îH₩ + 1-30mm²T₩ =162.25567+1.5(23)=196.75 A		
2	LIGHT OUTLETS	1210 22	0 50		2-3.5mm T₩ <sup>2</sup> in 15mmøC		-	B: 225AF,2P,250 V,200AT,18 K		
3	LIGHT OUTLETS	1065 22	0 50	2 15	2-3.5mm T₩ <sup>2</sup> in 15mm#C					
4	CONVENIENCE OUTLET	S 1800 22	0 50		2-3.5mm TW <sup>2</sup> + 1-2.0mm <sup>2</sup> TW(					
5	CONVENIENCE OUTLET	S 1620 22	0 50	2 20	2-3.5mm TW <sup>2</sup> + 1-2.0mm <sup>2</sup> TW(	G) IN 15mmøC	SCHEL	DULE OF LIGHTING	FIXTURES	& LAMPS
6	PHOTOCOPY MACHINE /HEAVY DUTY CO.	2500 22			2-3.5mm TW <sup>2</sup> + 1-2.0mm <sup>2</sup> TW(		SYMBOLS	DESCRIPTION	MOUNI	
7	3TR, 10, SPLIT TYPE AC	ະບ 6930 220			2-8mm <sup>2</sup> THW + 1-5.5mm <sup>2</sup> TW(I		D	ONE (1) 40 WATTS, 220V,		ING MOUNTED
8	3TR,10,SPLIT TYPE AC	0 6930 220			2-8mm <sup>2</sup> THW + 1-5.5mm <sup>2</sup> TW(i		1XX	FLUORESCENT LIGHTING FIXTURES, BOX TYPE	SUNFACE CER	ING MOUNTED
9 10	3TR, 1ø, SPLIT TYPE AC SPARE	0 6930 220 5000 220		2 70 2 70	2-8mm <sup>2</sup> THW + 1-5.5mm <sup>2</sup> TW((	G) IN 25mmøC	Ø	ONE (2) 40 WATTS, 220V, FLUORESCENT LIGHTING	SURFACE CEIL	ING MOUNTED
11	SPARE FOR PERIMETER LIGHTS	1500 220			2~5.5mm <sup>2</sup> THW + 1-3.5mm <sup>2</sup> TW	(G) IN 25mm#C	$\square$	FIXTURES, BOX TYPE	ļ	
12	SPARE	1500 22		2 20	-		Ø	ONE (1)-SL-18 LAMP WITH HEXLESS TYPE, MEDIUM		ING MOUNTED
	TOTAL	37,575					NOTE:	BASE PORCELAIN RECEPTACLE		
EN	IGINEER'S	FIELD (	OFF	ICE,	LABORATORY		TYPE BA	HIGH POWER FACTOR PRE-HEA LLAS, COMPLETE WITH ALL NEC ND READY FOR USE.		ories,
			SINGLI 60HZ, TYPE 2-12: 65mm CONCI (SIZE WEATH- SECON GUTTE SIZE / W/ PI POWEI SEAL WEATH- SECON GUTTE SIZE / W/ 1- 1-200 ACB	E PHAS AC,FITTE "F"WEA" "F"WEA" "F"WEA" "F"WEA" "F"WEA" "F"WEA" COSED F"RETE P AS REC FRETE P AS REC RECEPTO NDARY COMING COMINIC COMING COMINIC COMING COMINIC COMINI	EINFORCED EDESTAL QUIRED) DF TYPE MIRE ISIDE) UIRED N FOR PANY'S OF TYPE WIRE DSIDE)	0002005+ FCL		COMPUTATION FOR REQUIR SIZE OF MAIN SERVICE EN $I_{T} \approx \frac{VA^{*}DPA^{*} + VA^{*}AP^{*}}{220} \textcircled{0}$ $I_{T} \approx \frac{37575 + 18095}{220} (0.)$ $I_{T} = 220.83 \text{ Amps.}$ $USE : 2-125 \text{ mm}^{2} \text{ RS}$	TRANCE FEEDER: 85% DF + 0.25 85)+0.25(23) THW IN	
	Grounding	Rod	BARE	COPPE nØX300 ER CLA	R WIRE IN					
	SER DIAGRAM								ENGINEER	
ΤC	SC SC	ALE						PTR, NO. <u>74036</u> ISSUED ON <u>01/0</u>		ND. <u>2913</u> AT <u>CABUYAO, LAG</u> UNA
								T,I,N. <u>109–38</u>	82-379	
		PROJECT AND				SCALE :	SHEET C	ONTENTS :		SHEET NO. :
'AYS		TI	IE DET	AILED	DESIGN STUDY ON		1			



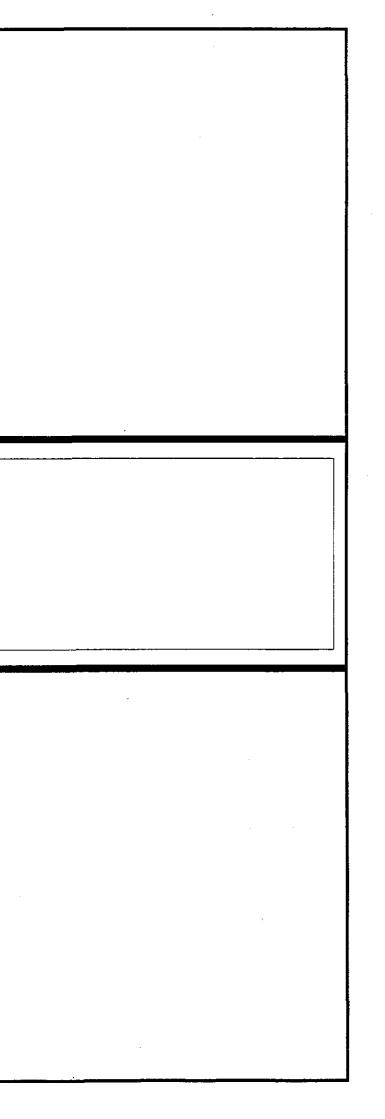
ENGINEER'S FIELD OFFICE AND LIVING QUARTERS FE-03 AS SHOWN SCHEDULE OF LOADS AND COMPUTATIONS ELECTRICAL RISER DIAGRAM FULL SIZE A1

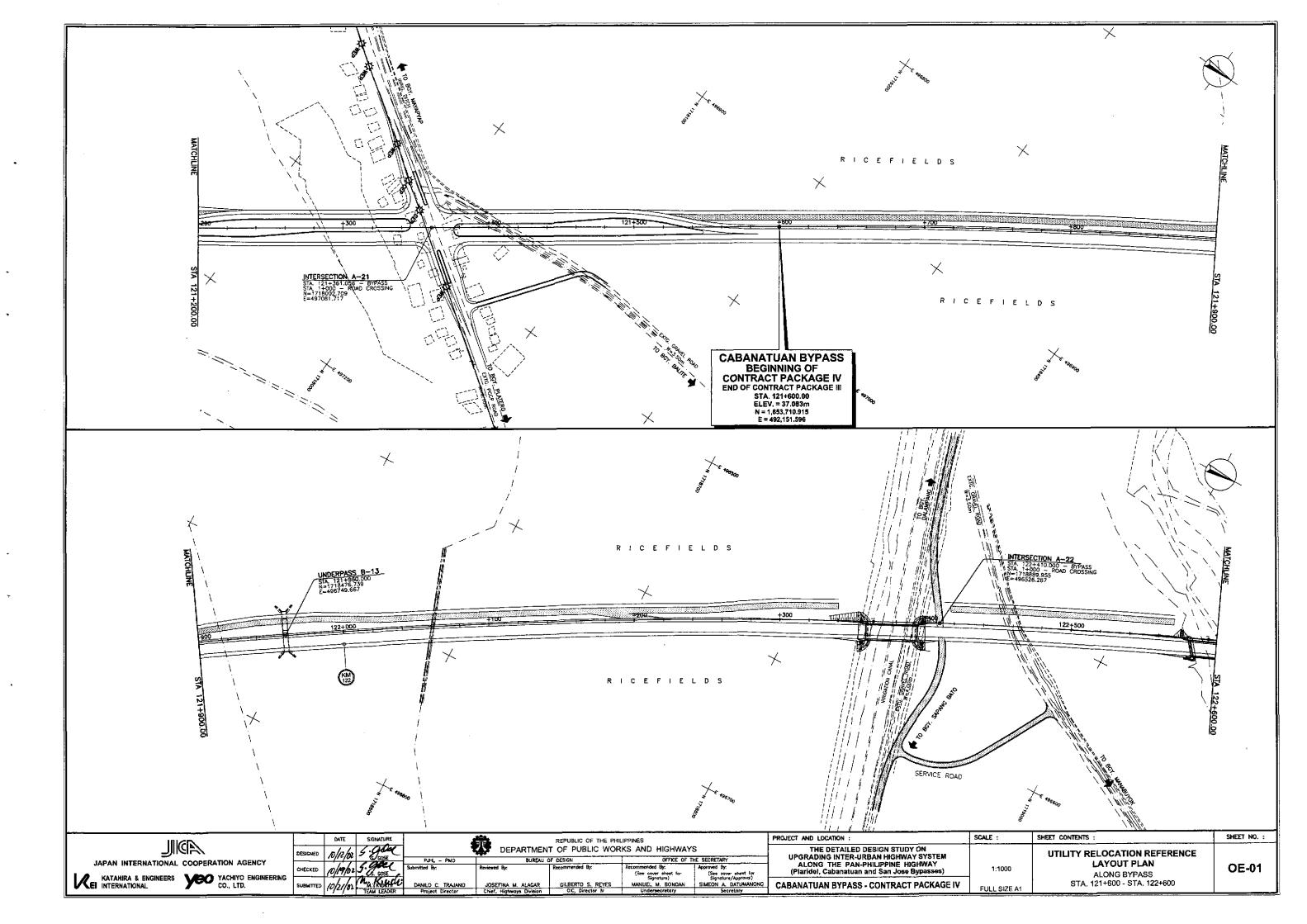


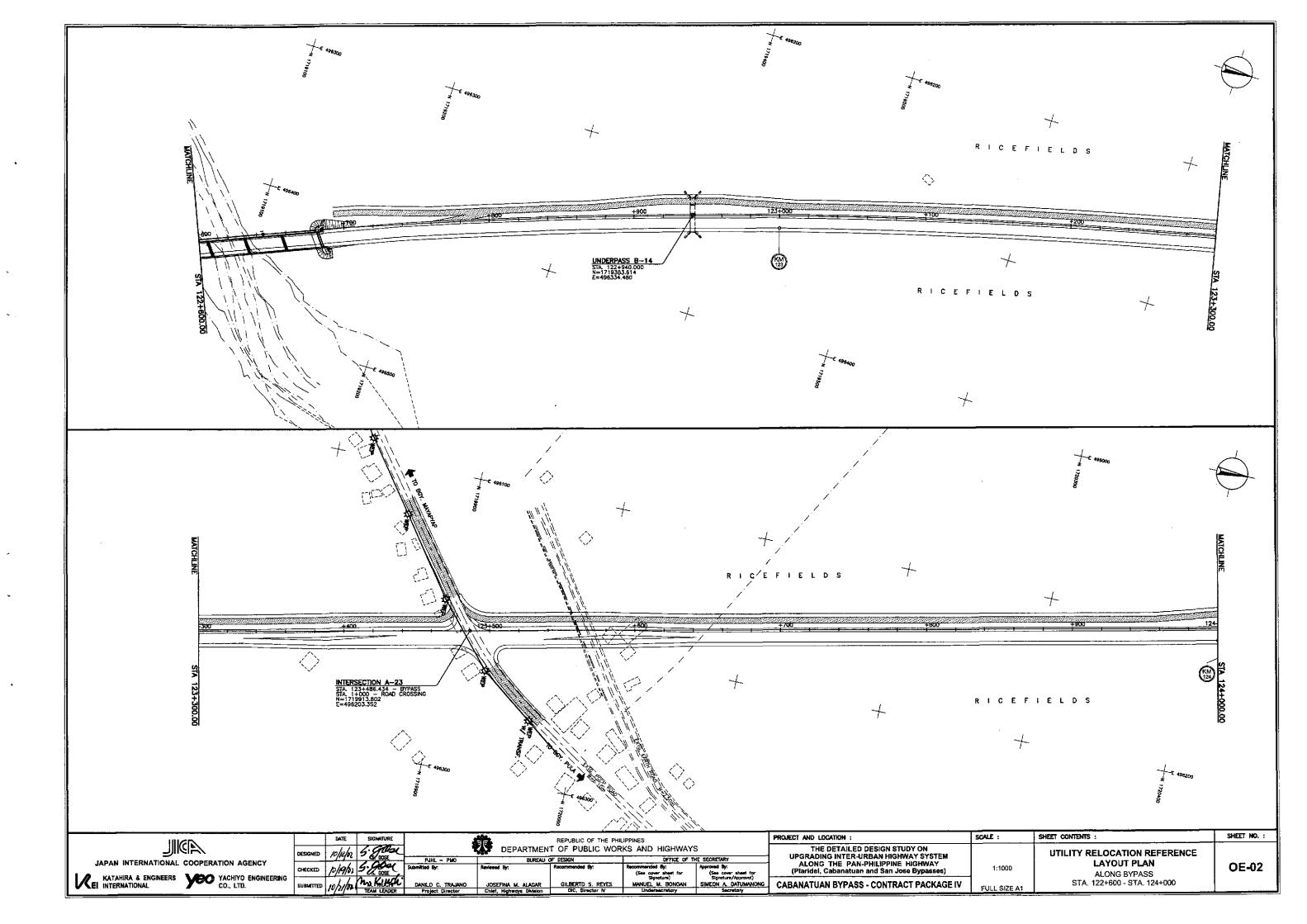


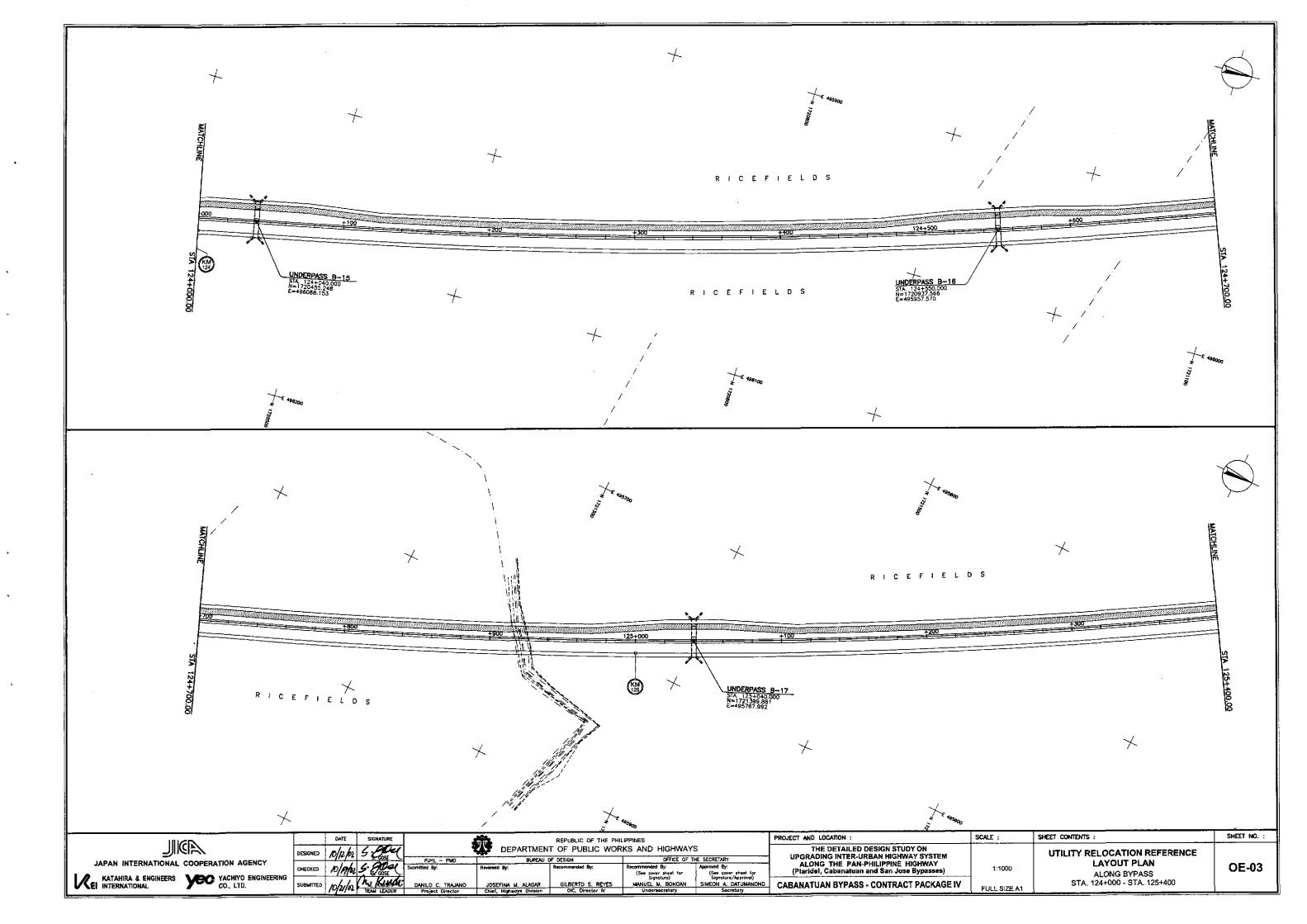


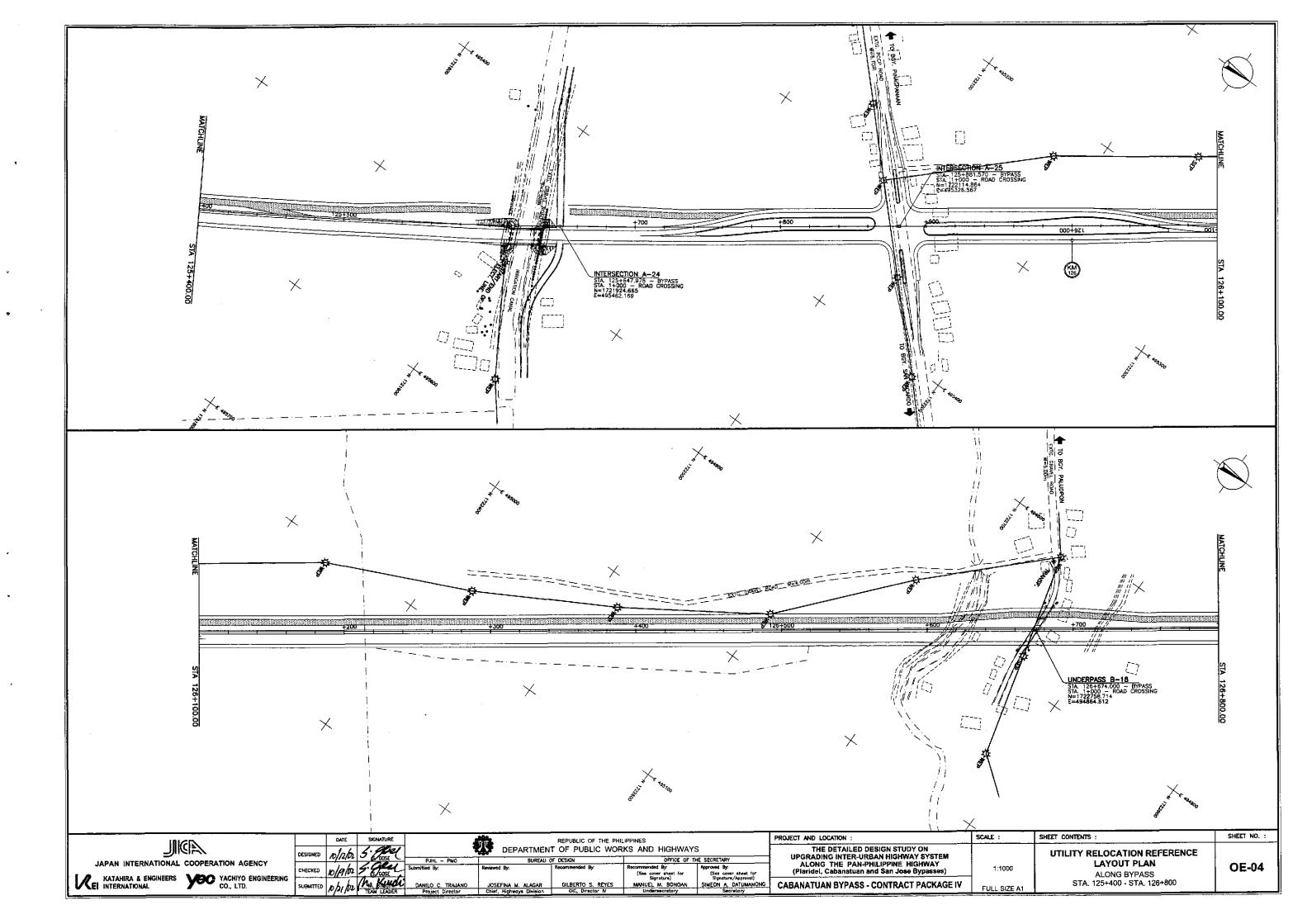
# OTHERS

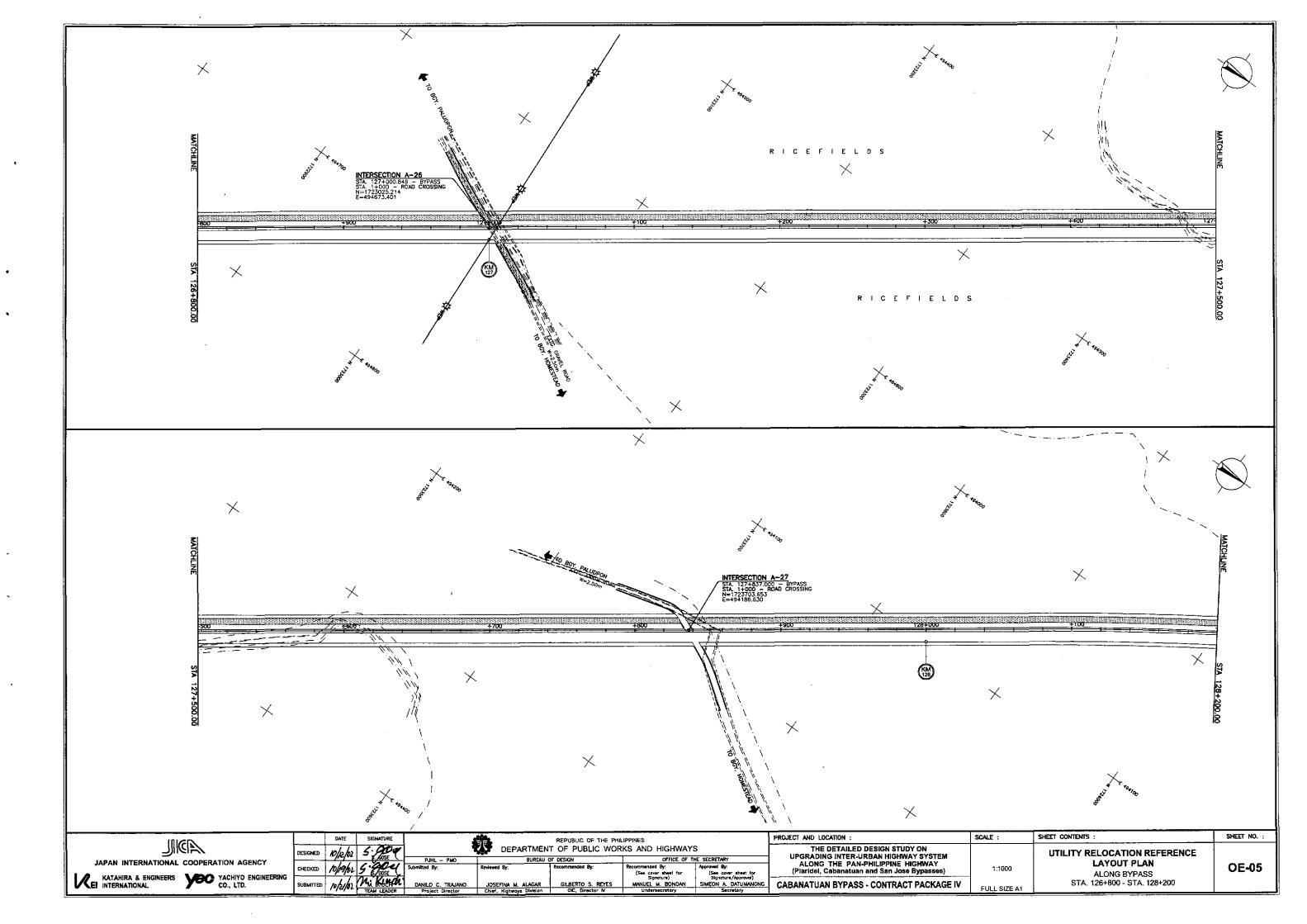


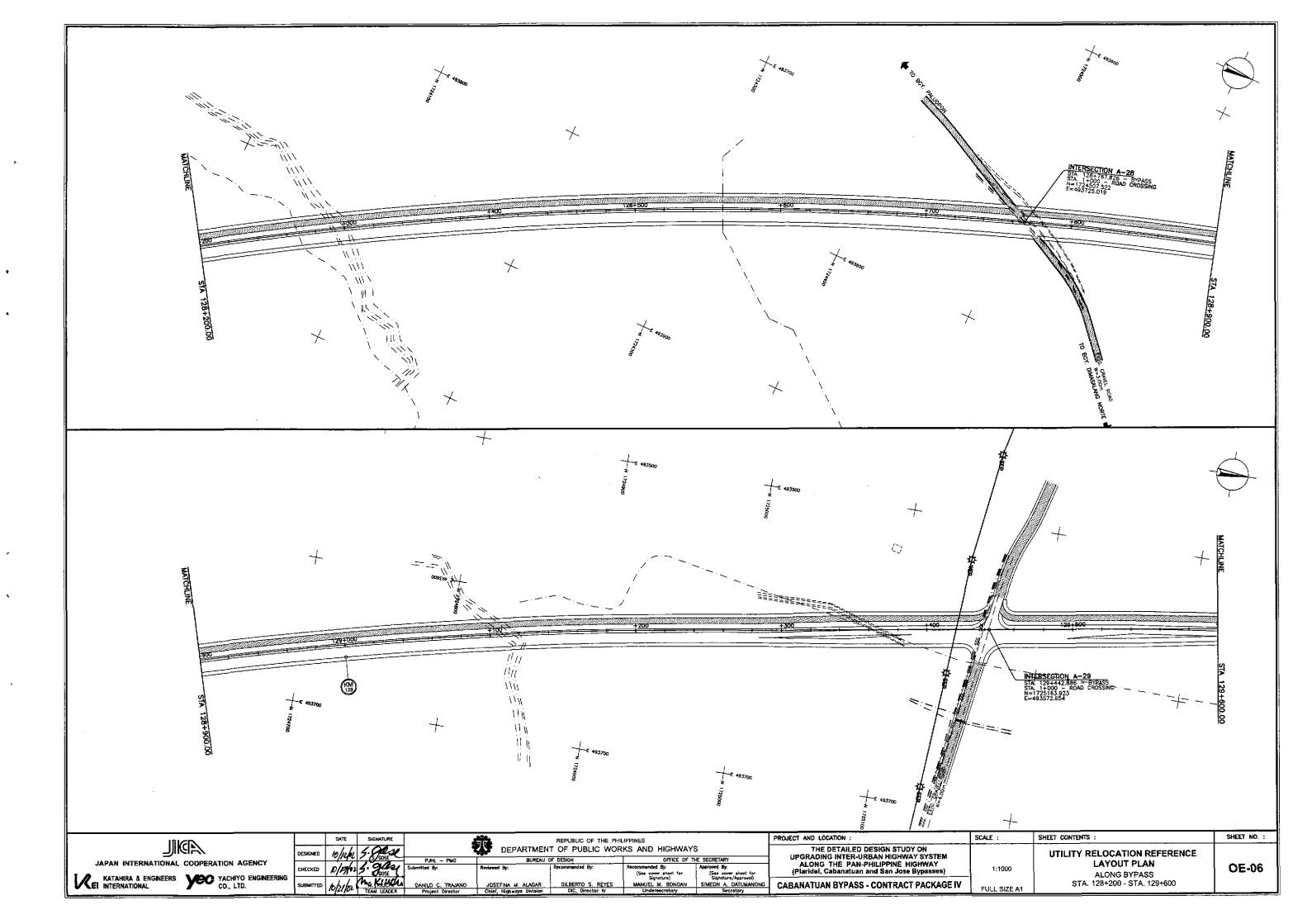


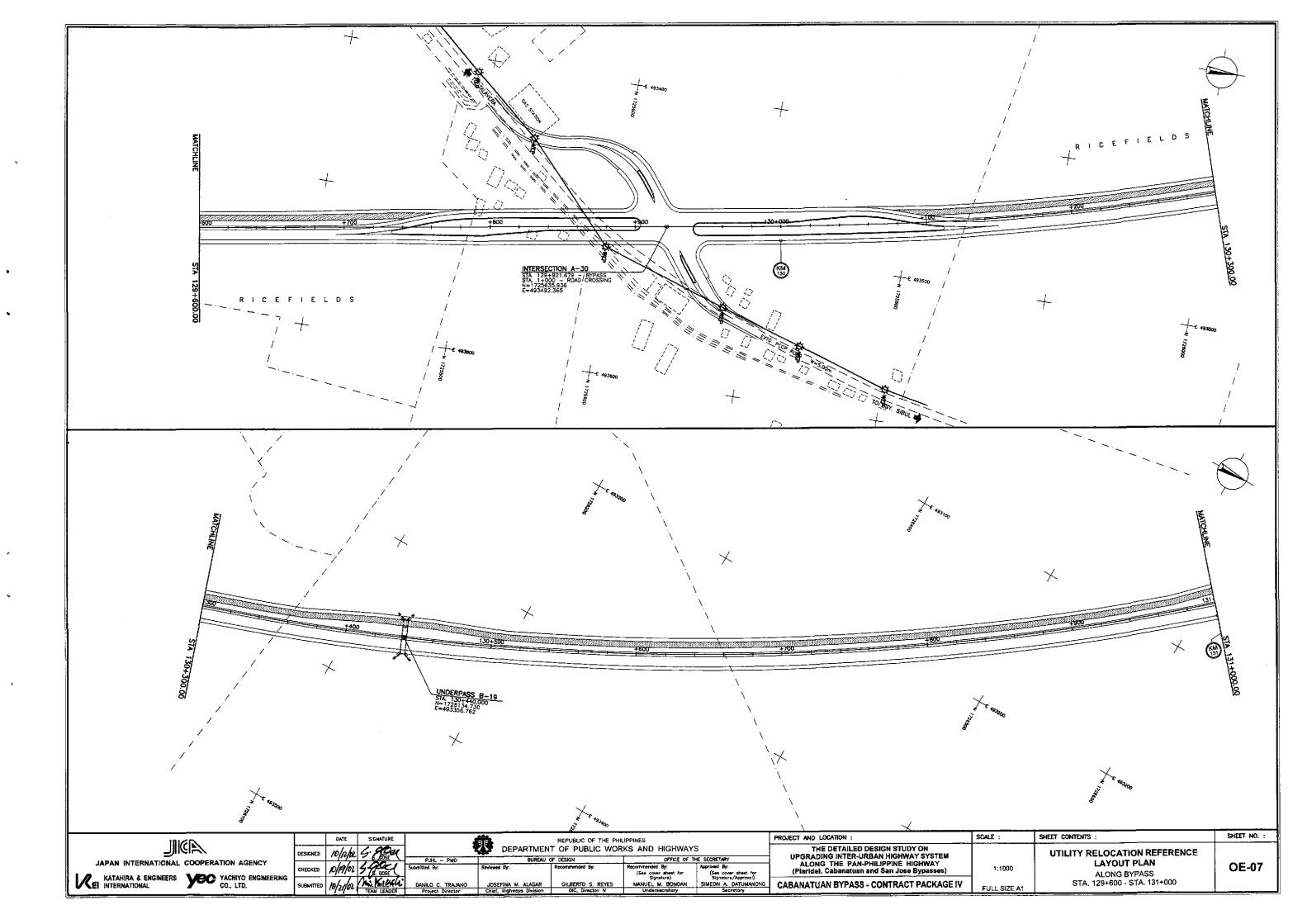


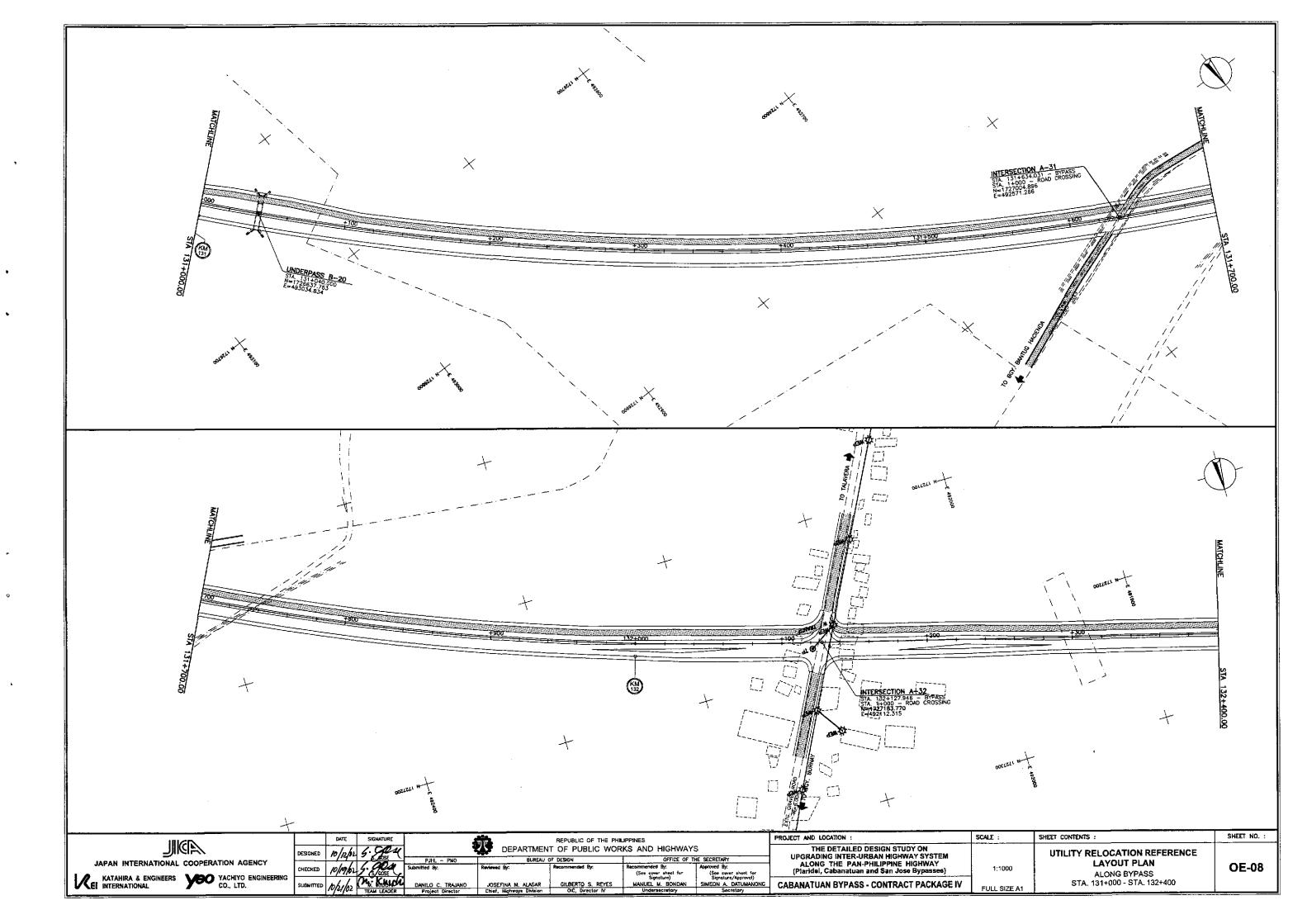


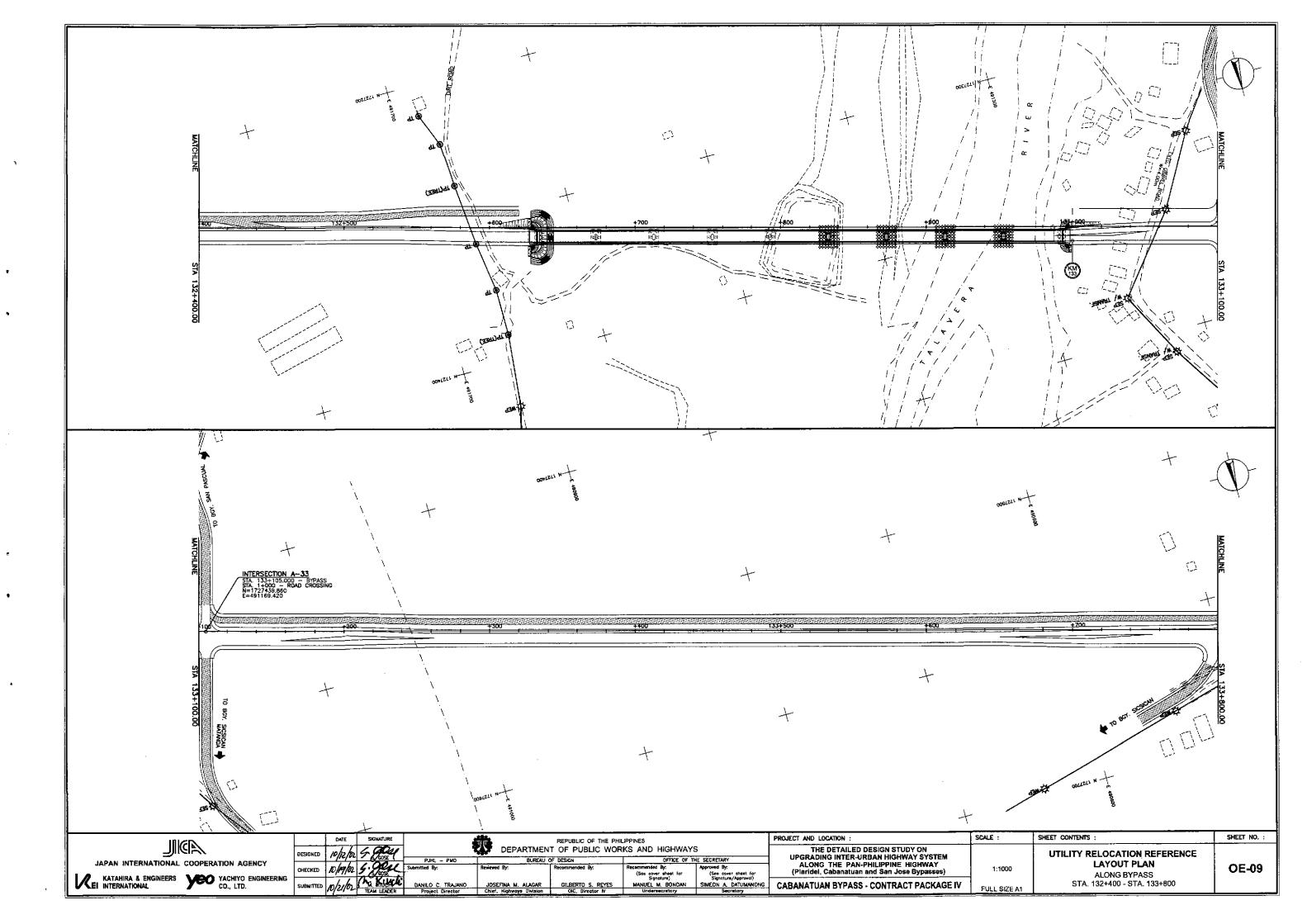


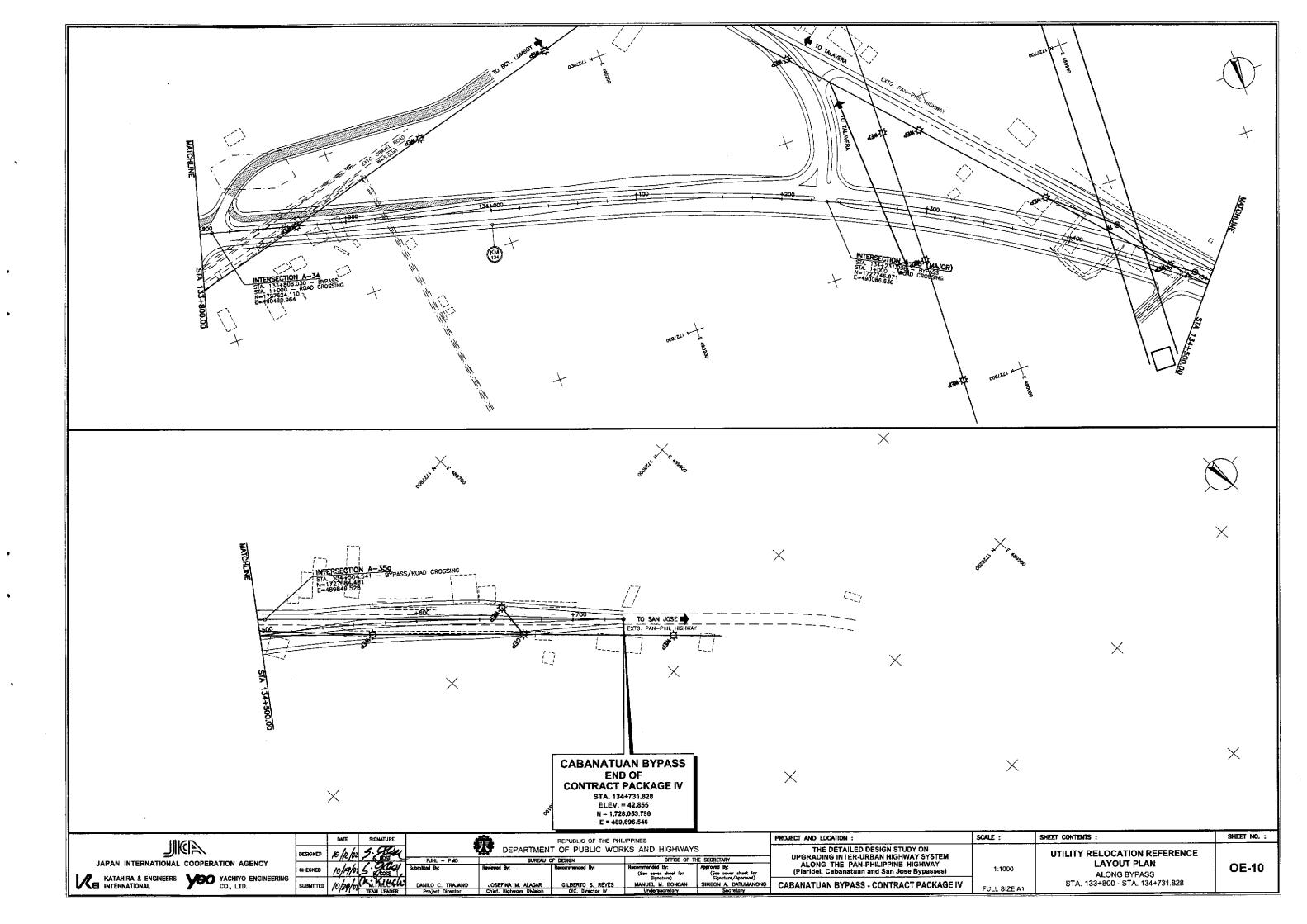


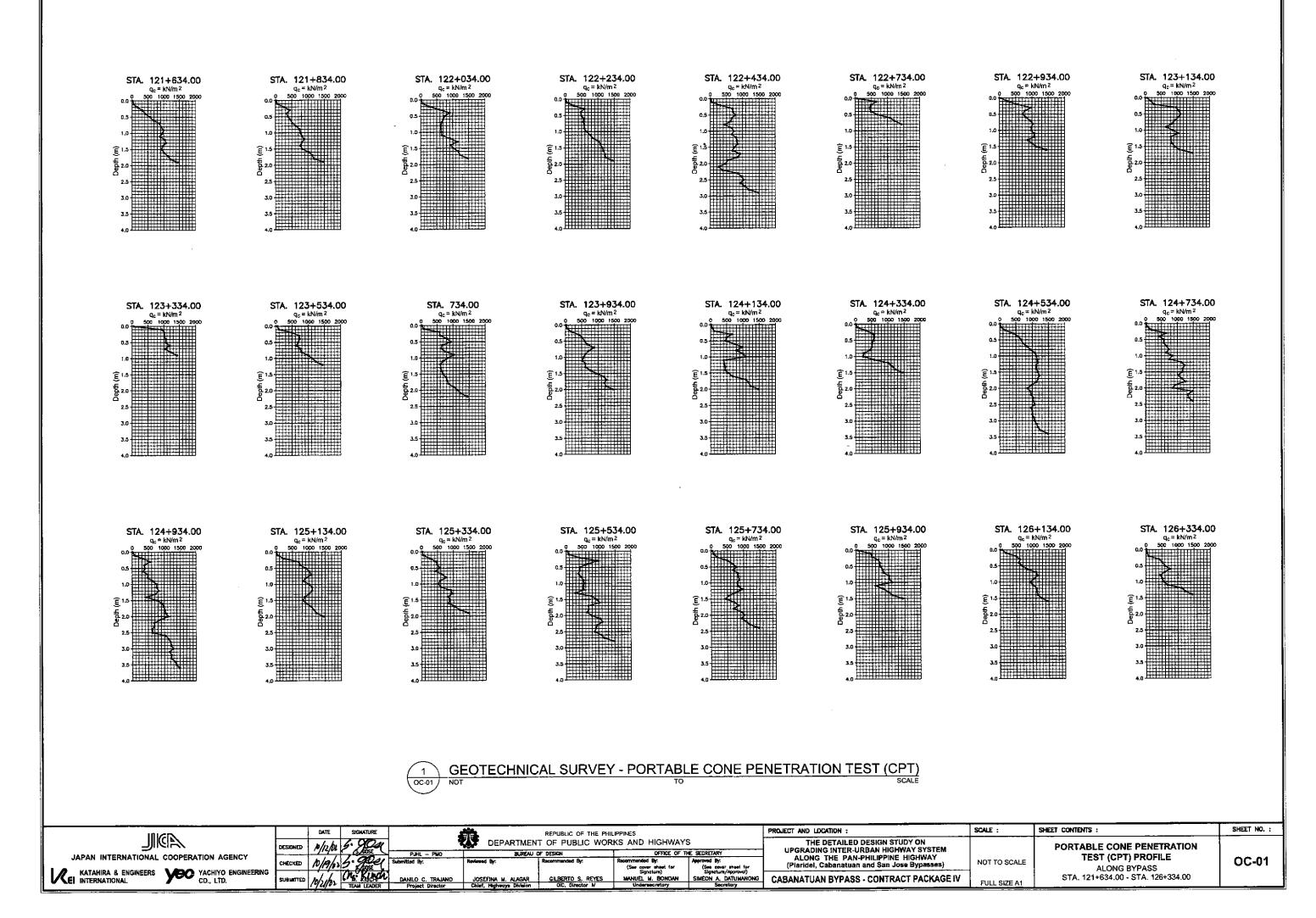












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