



REQUEST FOR QUOTATION

Date: 05 October 2022

RFQ No. SVP-10-05-2022-01

Name of Company: _____
Address: _____
Name of Store/Shop: _____
Address: _____
TIN: _____
PhilGEPS Registration Number (required prior to award): _____

The City Government of Pasig, through the Bids and Awards Committee (BAC), intends to procure infrastructure project in accordance with Section 53.9 of the 2106 revised Implementing Rules and Regulations of Republic Act No. 9184

NO.	NAME OF PROJECT/CONTRACT	APPROVED BUDGET	CONTRACT
		FOR THE CONTRACT	TIME DURATION
1	Proposed Improvement of Electrical System at Pasig City Jail, Molave St., Nagpayong, Brgy. Pinagbuhatan, Pasig City	990,519.84	90

Quotations received exceeding the total Approved Budget for the Contract shall be rejected.

Submit your Quotation (duly signed by you or your duly authorized representative) not later than the closing date specified in the Bid Notice Abstract posted in PhilGEPS website along with the following documents:

- Mayor's/Business Permit
- PhilGEPS Registration Number
- PCAB License
- Income/Business Tax Return (if the Approved Budget for the Contract is above P500,000.00)
- Notarized Omnibus Sworn Statement (if the Approved Budget for the Contract is above P50,000.00)
([https://www.gppb.gov.ph/assets/forms/Omnibus%20Sworn%20Statement\(Revised\).docx](https://www.gppb.gov.ph/assets/forms/Omnibus%20Sworn%20Statement(Revised).docx))
- Proof of Authorization: Secretary's Certificate if corporation, or Special Power of Attorney, if individual
- Original of duly signed and accomplished Financial Bid Form (See attached Associated Components)
- Original of duly signed Bid Prices in the Bill of Quantities (See attached Associated Components)
- Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid



Please submit the accomplished Quotation and required documents on or before the deadline of submission at the **Procurement Management Office (BAC Secretariat Office), 4th Floor, Pasig City Hall, San Nicolas, Pasig City.**



All documents should be submitted in a sealed brown envelope addressed to the "Bids and Awards Committee, 4th Floor, Pasig City Hall", and properly marked with the Project Title as provided herein.


For any clarification, you may contact us at telephone no. (02) 8641-1111 loc. 1461 or email address at bidsandawards@pasigcity.gov.ph

FOR: 
ATTY. PONCE MIGUEL D. LOPEZ
Officer in Charge, Procurement Management Office

PASIG BIDS AND AWARDS COMMITTEE

Caruncho Avenue, Brgy. San Nicolas, Pasig City, Philippines 1600

 (02) 8628-3395 * (02) 8641-1111 loc 1461 *  bidsandawards@pasigcity.gov.ph

*  pasigcity.gov.ph

BID FORM

Date : _____

Project Identification No. : _____

To: **THE CHAIRMAN
BIDS AND AWARDS COMMITTEE
PASIG CITY**

Having examined the Request for Quotation (RFQs) including the Supplemental or Bid Bulletin Numbers _____ the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

a. We have no reservation to the RFQs, including the Supplemental or Bid Bulletins, for the Procurement Project: **PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL, MOVALE ST., NAGPAYONG, BRGY. PINAGBUHATAN, PASIG CITY;**

b. We offer to execute the Works for this Contract in accordance with the RFQs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: _____
_____ (P _____)

d. The discounts offered and the methodology for their application are: _____;

e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the a period stated in the RFQs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____
_____ (P _____) percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹² for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Request for Quotation;

i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL, MOVEALE ST., NAGPAYONG, BRGY. PINAGBUHATAN, PASIG CITY** of the **Bids and Awards Committee (B.A.C.) Pasig City**

l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

SUBJECT : BILL OF QUANTITIES / COST ESTIMATE

NAME OF PROJECT : PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM

LOCATION : PASIG CITY JAIL, MOLAVE ST., NAGPAYONG, BRGY. PINAGBUHATAN, PASIG CITY

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE (P)	AMOUNT (P)
1.0	Preliminaries _____ (Pesos _____ _____)		I.s		
2.0	Panel Board and Circuit Breakers _____ (Pesos _____ _____)		I.s		
3.0	Wires and Conduits _____ (Pesos _____ _____)		I.s		
	_____ (Pesos _____ _____)				
	_____ (Pesos _____ _____)				
	_____ (Pesos _____ _____)				
	_____ (Pesos _____ _____)				
	_____ (Pesos _____ _____)				
	Total Amount in Words: _____ _____				
	GRAND TOTAL				

(Name & Address of Bidder)

(Signature)

(Name, Designation of Authorized Signing Official)

NAME OF PROJECT : PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL
 LOCATION : MOLAVE ST., NAGPAYONG, BARANGAY PINAGBUHATAN, PASIG CITY

Page No. 1 of 2
 Calendar Days to Complete 90 Working Days

MINIMUM EQUIPMENT REQUIREMENT			
DESCRIPTION	NO.	DESCRIPTION	NO.
Scaffolding/ H. Frame		Electric Hand Drill	1
A. Ladder	1		

TECHNICAL PERSONNEL REQUIRED			
DESCRIPTION	NO.	DESCRIPTION	NO.
RME/ REE/ PEE	1	Labourer/ Helper	3
Electrician	1		

ITEM #	DESCRIPTION	wt%	QTY.	UNIT	UNIT COST	TOTAL
I.	PRELIMINARIES					
	- Mobilization/ Demobilization	2.72	1	LOT		
	- Bunkhouse/ Bodega	2.94	9	sq.m		
	- Safety Measures/ Barricades	0.36	10	lm		
		6.02				
II.	Panel Board and Circuit Breakers					
	- ECB, 400 AT / 600 AF / 230V / 3P/ MCCB IN NEMA 4X ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	4.16	1	set		
	- PANELBOARD: MDP MAIN: 400AT/ 400AF/ 230V/ 3P/ MCCB BRANCHES: 2 - 200 AT/ 3POLE MCCB COMMON TRIP BRANCHES: 3 - 150 AT/ 3POLE MCCB COMMON TRIP IN NEMA 4X ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	11.01	1	set		
	- PANELBOARD: DP BLDG 1 - Pagbabago Bldg. MAIN: 100AT/ 225AF /230V /3P /MCCB BRANCHES: 3 - 70 AT/ 3POLE MCCB COMMON TRIP BRANCHES: SPACE IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	2.68	1	set		
	- PANELBOARD: DP BLDG 1 - LPB Typical to LPC MAIN: 70AT/ 100AF/230V/3P/MCCB BRANCHES: 10 - 30 AT/ 2POLE MCCB COMMON TRIP IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	4.85	2	set		
	- PANELBOARD: DP BLDG 2 - Pagkalinga Bldg. MAIN: 150AT/ 225AF /230V /3P /MCCB BRANCHES: 3 - 70 AT/ 3POLE MCCB COMMON TRIP BRANCHES: SPACE IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	3.38	1	set		
	- PANELBOARD: DP BLDG 2 - LPA MAIN: 70AT/ 100AF/230V/3P/MCCB BRANCHES: 6 - 20 AT/ 2POLE MCCB COMMON TRIP BRANCHES: 6 - 30 AT/ 2POLE MCCB COMMON TRIP IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	2.66	1	set		
	- PANELBOARD: DP BLDG 2 - LPB Typical to LPC MAIN: 70AT/ 100AF/230V/3P/MCCB BRANCHES: 6 - 20 AT/ 2POLE MCCB COMMON TRIP BRANCHES: 4 - 30 AT/ 2POLE MCCB COMMON TRIP IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	4.85	2	set		
	- PANELBOARD: DP BLDG 3 - Pagasa Bldg. MAIN: 150AT/ 225AF /230V /3P /MCCB BRANCHES: 3 - 70 AT/ 3POLE MCCB COMMON TRIP BRANCHES: SPACE IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	3.38	1	set		
	- PANELBOARD: DP BLDG 3 - LPA Typical upto LPC MAIN: 70AT/ 100AF/230V/3P/MCCB BRANCHES: 8 - 20 AT/ 2POLE MCCB COMMON TRIP BRANCHES: 4 - 30 AT/ 2POLE MCCB COMMON TRIP IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	7.99	3	set		
	- PANELBOARD: DP BLDG 4 - Female Inmate MAIN: 150AT/150AF/230V/3P/MCCB BRANCHES: 16 - 20 AT/ 2POLE MCCB COMMON TRIP BRANCHES: 8 - 30 AT/ 2POLE MCCB COMMON TRIP IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	5.60	1	set		
	- PANELBOARD: DP Pump Room MAIN: 100AT/150AF/230V/3P/MCCB BRANCHES: 6 - 30 AT/ 3POLE MCCB COMMON TRIP IN NEMA 3R ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING LUGS TERMINAL BLOCKS, G.I. GAUGE #16	1.83	1	set		
		48.24				

NAME OF PROJECT : PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL
 LOCATION : MOLAVE ST., NAGPAYONG, BARANGAY PINAGBUHATAN, PASIG CITY

Page No.
 Calendar Days to Complete

2 of 2
 90 Working Days

ITEM #	DESCRIPTION	wt%	QTY.	UNIT	UNIT COST	TOTAL
III.	WIRES AND CONDUITS					
	- 250 mm ² THHN Stranded	11.61	45	mtrs		
	- 50 mm ² THHN Stranded	11.09	199	mtrs		
	- 30 mm ² THHN Stranded	6.86	195	mtrs		
	- 22 mm ² THHN Stranded	7.18	296	mtrs		
	- 8.0 mm ² THHN Stranded	0.63	65	mtrs		
	- 3.5 mm ² THHN Stranded	1.10	264	mtrs		
	- 110 mmØ, PVC Pipe Scd. 40 (4" Ø)	0.78	5	pcs		
	- 65 mmØ, PVC Pipe Scd. 40 (2 1/2" Ø)	1.29	16	pcs		
	- 40 mmØ, PVC Pipe Scd. 40 (1 1/2" Ø)	0.83	20	pcs		
	- 32 mmØ, PVC Pipe Scd. 40 (1" Ø)	0.83	32	pcs		
	- 110mmØ Lock Nut and Bushing . Galvanized Steel	0.06	3	sets		
	- 65mmØ Lock Nut and Bushing . Galvanized Steel	0.05	4	sets		
	- 40mmØ Lock Nut and Bushing . Galvanized Steel	0.04	6	sets		
	- 32mmØ Lock Nut and Bushing . Galvanized Steel	0.06	2	sets		
	- 110 mmØ Elbow, PVC Long	0.07	2	pcs		
	- 65mmØ Elbow, PVC Long	0.03	4	pcs		
	- 40mmØ Elbow, PVC Long	0.04	6	pcs		
	Other Accessories (Consumables)					
	3/8" Ø, 3m. Full Threaded Steel Rod / Length	0.48	10	lgt		
	100mmØ C-Clamp, Stainless Steel, (double End Support)	0.06	6	pcs		
	Welding Rod	0.20	5	kls		
	Angle Bar, 1 x 1 x 1/4 x 6m.	1.01	6	lgt		
	Steel Sheet GA #16, Galvanized with Cover Provided					
	PVC Solvent, 1 Liter / Can	0.42	5	cans		
	Rubber Tape, Big	0.18	6	roll		
	G.I Wires #16 and #14	0.06	5	kls		
	Electrical Tape, Armak Big	0.07	10	roll		
	- 3/8" Ø Nuts and Flat Washers for Bolt, GI	0.15	50	sets		
	- Expansion Bolt, 3/8 Ø, Galvanized Steel	0.31	12	sets		
	- Cable Ties, 14" Length (Black) 100 pc / Bag	0.26	2	bag		
		100.00				

GENERAL NOTES:

ALL ELECTRICAL WORKS SHALL COMPLY WITH THE LATEST PROVISIONS OF THE PHILIPPINE ELECTRICAL CODE (PEC) WITH THE RULES AND REGULATIONS OF THE NATIONAL GRID CORPORATION (NGC) WITH SPECIAL PROVISIONS FOR ELECTRICAL LINES AND SUBSTANCES AND WITH THE RULES AND REGULATIONS OF THE OTHER REGULATORY AGENCIES.

1. POWER SERVICE TO THE PROPOSED PROJECT SHALL BE SINGLE PHASE 220V VOLTS.
2. WIRING METHOD SHALL BE AS FOLLOWS:
 - MAIN SERVICE ENTRANCE SHALL BE IN RIGID STEEL CONDUIT (RSC) ON EXPOSED INSTALLATION AND PVC SCHEDULE 40 USED IN UNDERGROUND OR UNDER SLAB OR CONCEALED THRU WALLS FOR LIGHTING, POWER AND UNWILDERED SUCH AS TELEPHONE AND INTERCOM.
3. PANEL BOARD OR AIR CIRCUIT BREAKER:
 - ALL PANEL BOARD SHALL BE OF "CABINETS" CONSTRUCTION FINISH WITH TRIM FOR FLUSH OR SURFACE MOUNTING TYPE FROM ALL PANEL BOARD SHALL BE FINISHED IN INDUSTRIAL GRADE GALVANNEAL OVER A COAT WASH INHIBITOR.

PANEL BOARD MAIN BUS WORK SHALL BE CAPACITY RATED TO BE EQUAL OR EXCEED OVER CURRENT PROTECTIVE DEVICE IMMEDIATELY UPBEAD OF IT.

ALL MAIN CIRCUIT BREAKERS SHALL CONSIST OF ONE OR MORE TYPE OF AIR BREAK, TRIP FREE, OPERATING MECHANISM WITH CONTACT ARC INTERRUPTOR AND THERMAL MAGNETIC UNIT FOR EACH POLE ALL ENCLOSED IN MODULAR HYBRID IC CASE.

4. SMALLEST SIZE OF WIRE SHALL BE 10 AMP. THIN AND SMALLEST RATING SHALL BE 15 AMP. RIGID STEEL CONDUIT SHALL BE RATED FOR LIGHTING AND POWER SHALL BE 15 AMP. MINIMUM INTERRIPTING LEVEL FOR LIGHTING AND POWER SHALL BE 15 AMP.
5. WIRING DEVICE SHALL BE AS FOLLOWS:
 - WALL SWITCHES 10 AMP, 250 VOLTS, FLUSH TYPE "NATIONAL" OR "TOSHIBA" BRAND.
 - DUPLICATOR SWITCHES 15 AMP, 250 VOLTS, FLUSH TYPE "NATIONAL" OR "TOSHIBA" BRAND.
6. OUTLET BOX SHALL BE GALVANNEAL STEEL GALVANNEAL AS FOLLOWS:
 - LIGHTING OUTLET - 2 1/2" DEEP x 4" OCTAGONAL OR 3" TO 4" RECTANGULAR ENTHED AND 2" x 2 1/2" THICK.
7. ADEQUATE ONE PRACTICE PROTECTIVE EQUIPMENT SHALL BE PROVIDED.
8. ALL MATERIALS TO BE USED SHALL BE NEW AND WITHIN 8 MARK.
9. ALL ELECTRICAL WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

IMPORTANT NOTES:

THE CONTRACTOR SHALL APPLY A TEMPORARY POWER CONNECTION FOR THEIR TEMPORARY LIGHTING FACILITY. THE CONTRACTOR MUST NOTIFY THE DESIGNER FOR ALL THE ALTERATION CHANGES OR REVISIONS ON THE ORIGINAL PLAN.

THE CONTRACTOR SHALL MONITOR THE PROGRESS OF THE WORKS KEEP A CORRECT RECORD OF ALL CHANGES WITH THE ACTUAL INSTALLATION DETAILS FROM THAT POINT ON. THE CONTRACTOR SHALL IN A NEAT AND AC CURATE MANNER MAINTAIN "AS-BUILT" PLAN. THESE PLAN SHALL BE SUBMITTED TO THE ENGINEER IN CHARGE IMMEDIATELY UPON RECEIPTION AND APPROVAL.

POWER SERVICE APPLICATION SHALL BE OBTAINED BY THE AND AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE UTILITY COMPANIES WITH HEADQUARTERS TO SERVICE APPLICATION.

CONFORMANCE ACCEPTED BY:

CONTRACTOR



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE MAYOR
ENGINEERING DEPARTMENT

IMPORTANT NOTES: 1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ELECTRICAL SYSTEM. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ELECTRICAL SYSTEM.

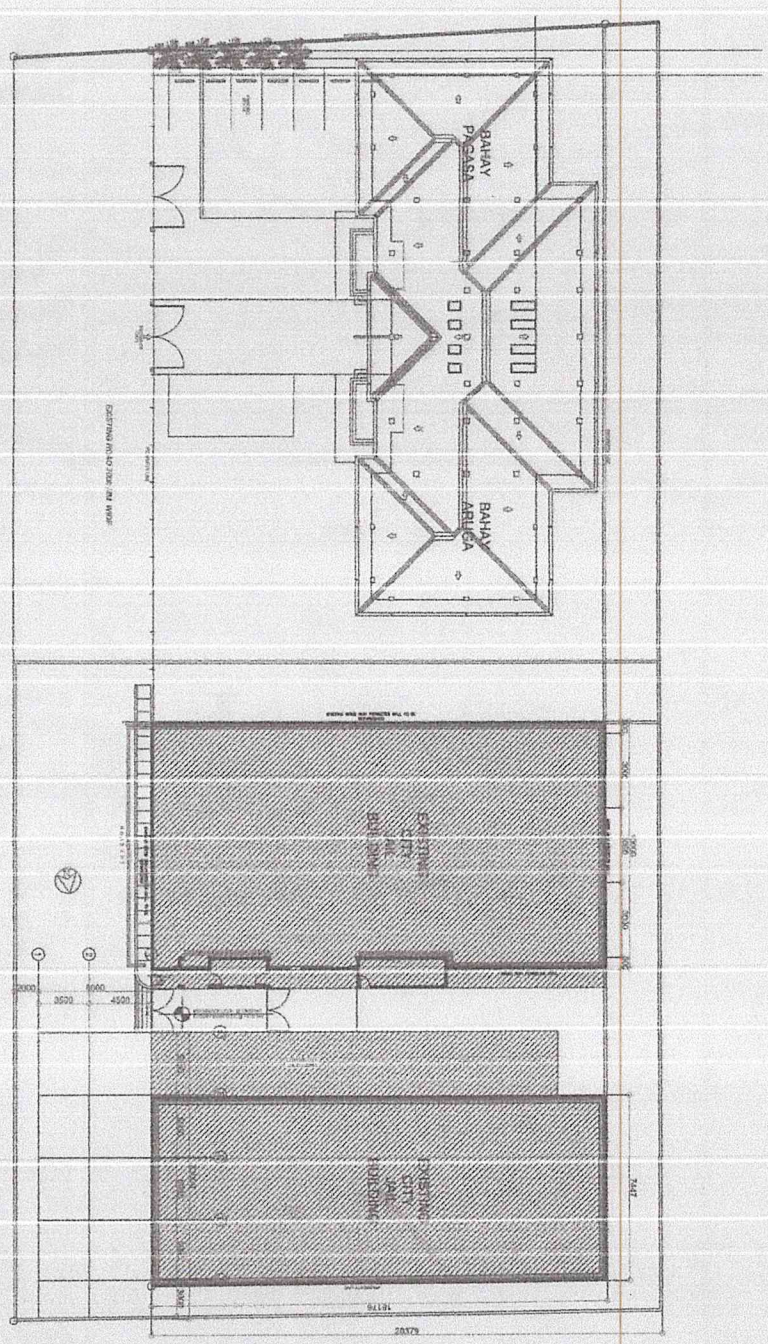
PROJECT TITLE	PROPOSED APPROVAL OF ELECTRICAL SYSTEM AT PISIS CITY JAIL
PROJECT LOCATION	M. S. BALAN, ST. A. L. CONCESSIONS, PISIS CITY, BANGALAY, PANGASINAN, PANGASINAN, PANGASINAN

DESIGNED BY: *[Signature]*
ELECTRICAL
ENGR. JAY JOSEPH M. SORIANO
CHECKED BY: *[Signature]*
ENGR. JAY JOSEPH M. SORIANO
CHIEF, ELECTRICAL ENGINEERING DIVISION

RECOMMENDING APPROVAL:
ENGR. ARTALEXANDER M. SORIANO
ENGR. LAYRANCE B. PRUDENCIO
CHIEF, ELECTRICAL ENGINEERING DIVISION

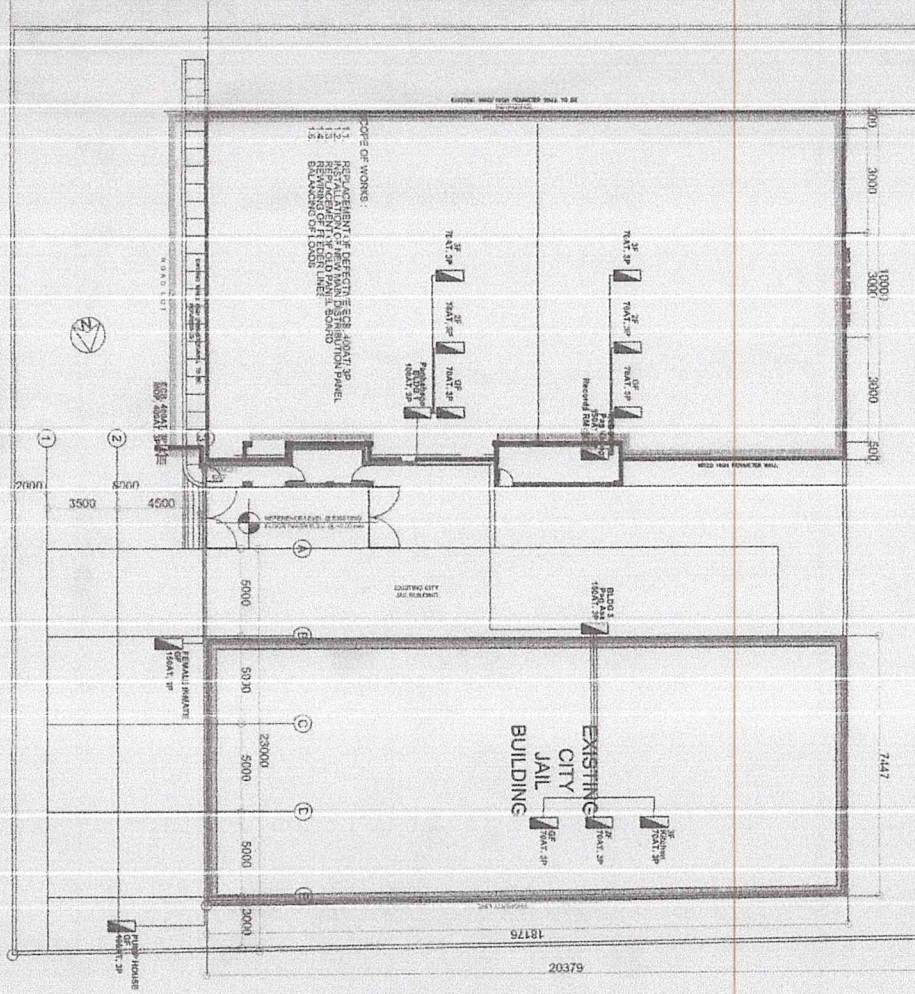
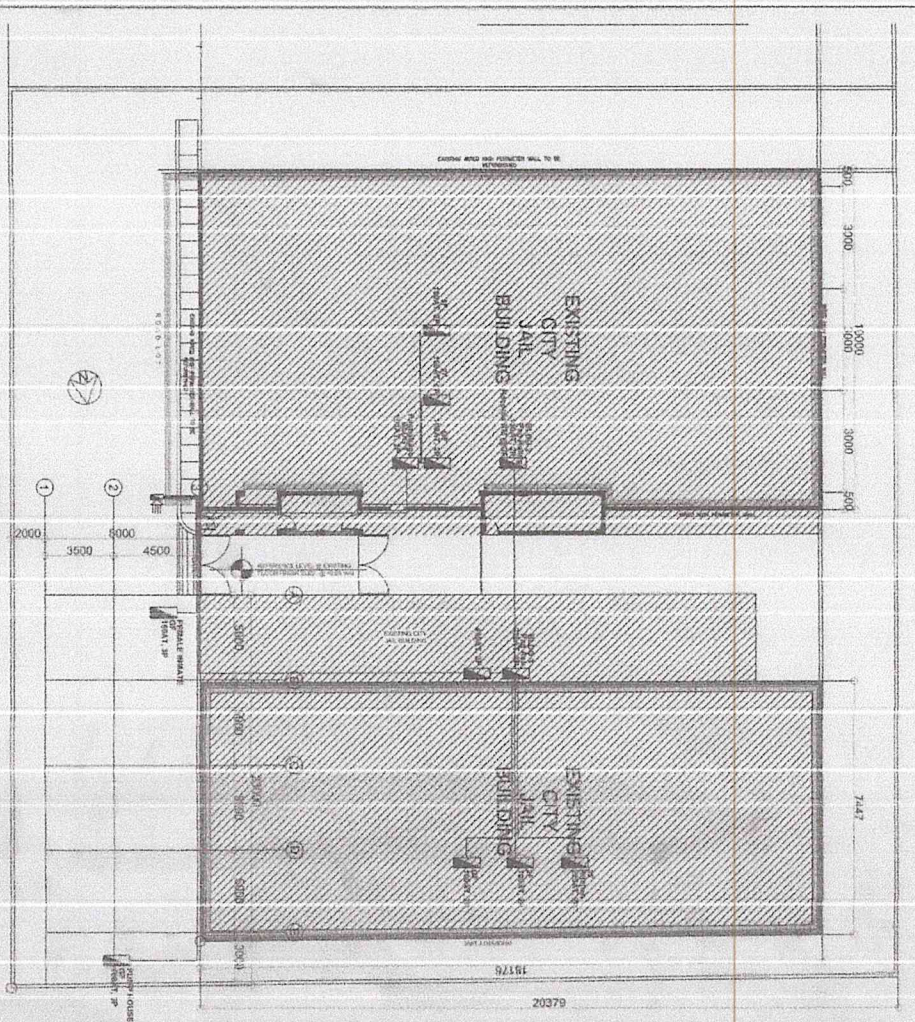
APPROVED BY:
HON. VICTOR M. BEGIN N. SOTTO
MAYOR

SHEET CONTENT	POWER LAYOUT
SHEET NO.	E-6 1/6



SITE DEVELOPMENT PLAN
SCALE: 1:200

202 MARCH 2019
[Signature]



REPUBLIC OF THE PHILIPPINES
CITY OF PASIG
OFFICE OF THE MAYOR
ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PHASIS CITY JAIL

ELECTRICAL:
PROPOSED BY:
Engr. KARAC D. DE VERA
CHECKED BY:
Engr. KARAC D. DE VERA
Engr. EDUARDO S. MARTIN

RECOMMENDING APPROVAL:
Engr. EDUARDO S. MARTIN

APPROVED BY:
Engr. ARTAVENES G. GOSOMINO

APPROVED BY:
Hon. VICTOR MA REGIS N. SOTTO
CITY MAYOR

SHEET COMMENT: AS SHOWN
SHEET NO: E-6 / 26

IMPORTANT NOTES:
1. NO ALTERATION SHALL BE MADE TO THE ELECTRICAL SYSTEM WITHOUT THE APPROVAL OF THE ENGINEER.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE PHILIPPINE ELECTRICAL CODE (PEC).

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

4. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SERVICES AND UTILITIES AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

202 *[Signature]*

LOAD SCHEDULE: DP BLDG 1 - PAW BLDG 1 - LFP

QTY	NO.	DISCRIPTION	VA	VOLT	AMP	BO	CO	ABC	CB RATING	TRADE SIZE	CONDUIT
1	14	OTHERS	1600.0	220	6.4				30	2	2.50mm ² THHN + 1.25mm ² HN
2	2	LPC	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
3	3	SWAN	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
4	4		1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
TOTAL			2000.0	220	15.9						

MAIN CB: 150kV / 125V / 2P / MCCB
COMPUTATION OF LOAD:
I₁ = 32.29 AMPS

MAIN FEEDER WIRE:
USE: 2.50mm² THHN
1.25mm² HN
MC 32 mm² PVC

LOAD SCHEDULE: DP BLDG 1 - LFP

QTY	NO.	DISCRIPTION	VA	VOLT	AMP	BO	CO	ABC	CB RATING	TRADE SIZE	CONDUIT
1	14	OTHERS	1600.0	220	6.4				30	2	2.50mm ² THHN + 1.25mm ² HN
2	2	LPC	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
3	3	SWAN	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
4	4		1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
5	5	General floor	600.0	220	2.7				30	2	2.50mm ² THHN + 1.25mm ² HN
6	6	General floor	400.0	220	1.8				30	2	2.50mm ² THHN + 1.25mm ² HN
7	7	General floor	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
8	8	General floor	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
9	9	General floor	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
10	10	General floor	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
11	11	General floor	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
12	12	General floor	1000.0	220	4.5				30	2	2.50mm ² THHN + 1.25mm ² HN
TOTAL			9000.0	220	20.9						

MAIN FEEDER WIRE:
1. 2.50mm² THHN
1.25mm² HN
MC 32 mm² PVC

LOAD SCHEDULE: DP BLDG 4 - LPA (LIGHTING and POWER PANEL)

QTY	NO.	DISCRIPTION	VA	VOLT	AMP	BO	CO	ABC	CB RATING	TRADE SIZE	CONDUIT
1	1	OTHERS	1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
2	2		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
3	3		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
4	4		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
5	5		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
6	6		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
7	7		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
8	8		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
9	9		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
10	10		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
11	11		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
12	12		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
TOTAL			10000.0	220	20.9						

MAIN CB: 150kV / 125V / 2P / MCCB
COMPUTATION OF LOAD:
I₁ = 32.29 AMPS

MAIN FEEDER WIRE:
USE: 2.50mm² THHN
1.25mm² HN
MC 32 mm² PVC

LOAD SCHEDULE: DP BLDG 4 - LPA (LIGHTING and POWER PANEL)

QTY	NO.	DISCRIPTION	VA	VOLT	AMP	BO	CO	ABC	CB RATING	TRADE SIZE	CONDUIT
1	1	OTHERS	1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
2	2		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
3	3		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
4	4		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
5	5		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
6	6		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
7	7		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
8	8		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
9	9		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
10	10		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
11	11		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
12	12		1200.0	220	5.5				30	2	2.50mm ² THHN + 1.25mm ² HN
TOTAL			14400.0	220	31.6						

MAIN FEEDER WIRE:
1. 2.50mm² THHN
1.25mm² HN
MC 32 mm² PVC

REPUBLIC OF THE PHILIPPINES
CITY OF PASIG

OFFICE OF THE MAYOR

ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL

PROPOSED BY: ENGR. MAK K. JOSEPH / PASIG CITY JAIL

DESIGNED BY: ENGR. MAK K. JOSEPH / PASIG CITY JAIL

CHECKED BY: ENGR. MAK K. JOSEPH / PASIG CITY JAIL

APPROVED BY: ENGR. ARTAVERNIS V. VASERDINO

HON. VICTOR M. REGIS N. SOTTO

POWER LAYOUT

E-6
3 6

IMPORTANT NOTES: 1. NO. 20 SECTION 4.4 AND 4.5 OPERATIONS SHALL BE MADE IN ACCORDANCE WITH THE APPROVAL OF THE INSPECTOR AND THE CONTRACTOR. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.

42 APPROVED: [Signature]

LOAD SCHEDULE : DP BLDG 2 - Pagkalaba Building

CIR NO.	LO	CO	CF	EL	EF	OTHERS	VA	VOLT	AB	BC	CA	ABC	CAPACITANCE		POLE	WIRE	CONDUIT
													AF	AE			
1						OTHERS	17400.0	220	29.0	21.3	21.8		20	180	3	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
2						LPH	10200.0	220	22.7	14.5	14.6		20	160	3	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
3						LPC	13400.0	220	28.2	14.5	13.2		20	160	3	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
4						Spurs		220									
TOTAL							41000.0		89.5	95.4	49.2						

MANIFEST
76kV / 15kV / 230V / 3P / 3W / 3C / 3S

COMPUTATION OF LOAD
1 ϕ = 12.11 AMPS

MAIN FEEDER WIRE:
2 - 3.5mm THHN
1 - 2.0mm THHN
20mm² PVC

LOAD SCHEDULE : DP BLDG 2 - LPA

CIR NO.	LO	CO	CF	EL	EF	OTHERS	VA	VOLT	AB	BC	CA	ABC	CAPACITANCE		POLE	WIRE	CONDUIT
													AF	AE			
1						OTHERS	1600.0	220	0.4				20	20	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
2							800.0	220	3.4				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
3							800.0	220	3.6				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
4							800.0	220	3.8				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
5							800.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
6							800.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
7							1800.0	220	19.0				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
8							2200.0	220	10.0				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
9							2200.0	220	10.0				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
10							2200.0	220	10.0				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
11							2200.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
12							1600.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
TOTAL							17400.0		30.0	27.3	11.0						

MANIFEST
76kV / 15kV / 230V / 3P / 3W / 3C / 3S

COMPUTATION OF LOAD
1 ϕ = 9.46 AMPS

MAIN FEEDER WIRE:
2 - 3.5mm THHN
1 - 2.0mm THHN
20mm² PVC

LOAD SCHEDULE : DP BLDG 2 - LPB

CIR NO.	LO	CO	CF	EL	EF	OTHERS	VA	VOLT	AB	BC	CA	ABC	CAPACITANCE		POLE	WIRE	CONDUIT
													AF	AE			
1						OTHERS	1830.0	220	0.6				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
2							60.0	220	2.7				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
3							60.0	220	2.7				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
4							60.0	220	2.7				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
5							60.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
6							60.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
7							1630.0	220	7.3				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
8							1630.0	220	6.8				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
9							1630.0	220	4.5				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
10							1630.0	220	4.5				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
TOTAL							1830.0		22.7	14.5	9.5						

MANIFEST
76kV / 15kV / 230V / 3P / 3W / 3C / 3S

COMPUTATION OF LOAD
1 ϕ = 38.26 AMPS

MAIN FEEDER WIRE:
2 - 3.5mm THHN
1 - 2.0mm THHN
20mm² PVC

LOAD SCHEDULE : DP BLDG 2 - LPC

CIR NO.	LO	CO	CF	EL	EF	OTHERS	VA	VOLT	AB	BC	CA	ABC	CAPACITANCE		POLE	WIRE	CONDUIT
													AF	AE			
1						OTHERS	1430.0	220	0.4				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
2							80.0	220	2.7				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
3							80.0	220	2.7				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
4							80.0	220	2.7				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
5							80.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
6							80.0	220					20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
7							2000.0	220	5.1				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
8							2000.0	220	5.1				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
9							2000.0	220	5.1				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
10							2000.0	220	5.1				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
11							2000.0	220	5.1				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
12							2000.0	220	5.1				20	60	2	2-3.5mm THHN + 1-2.0mm THHN	20mm ² PVC
TOTAL							1430.0		23.3	14.5	10.2						

MANIFEST
76kV / 15kV / 230V / 3P / 3W / 3C / 3S

COMPUTATION OF LOAD
1 ϕ = 51.55 AMPS

MAIN FEEDER WIRE:
2 - 3.5mm THHN
1 - 2.0mm THHN
20mm² PVC



REPUBLIC OF THE PHILIPPINES
CITY OF PASIG
OFFICE OF THE MAYOR
ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL

PROPOSED BY:
ENR. VICTOR MAR REGIS N. SOTTO

APPROVED BY:
ENR. VICTOR MAR REGIS N. SOTTO

RECOMMENDING APPROVAL:
ENR. ANTONIO S. SORIANO

APPROVED BY:
ENR. VICTOR MAR REGIS N. SOTTO

SHEET CONTENT:
POWER LAYOUT

SHEET NO.
E-6

IMPORTANT NOTES:

1. MATERIALS TO BE USED SHALL BE APPROVED BY THE ENGINEER IN CHARGE OF THE PROJECT.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

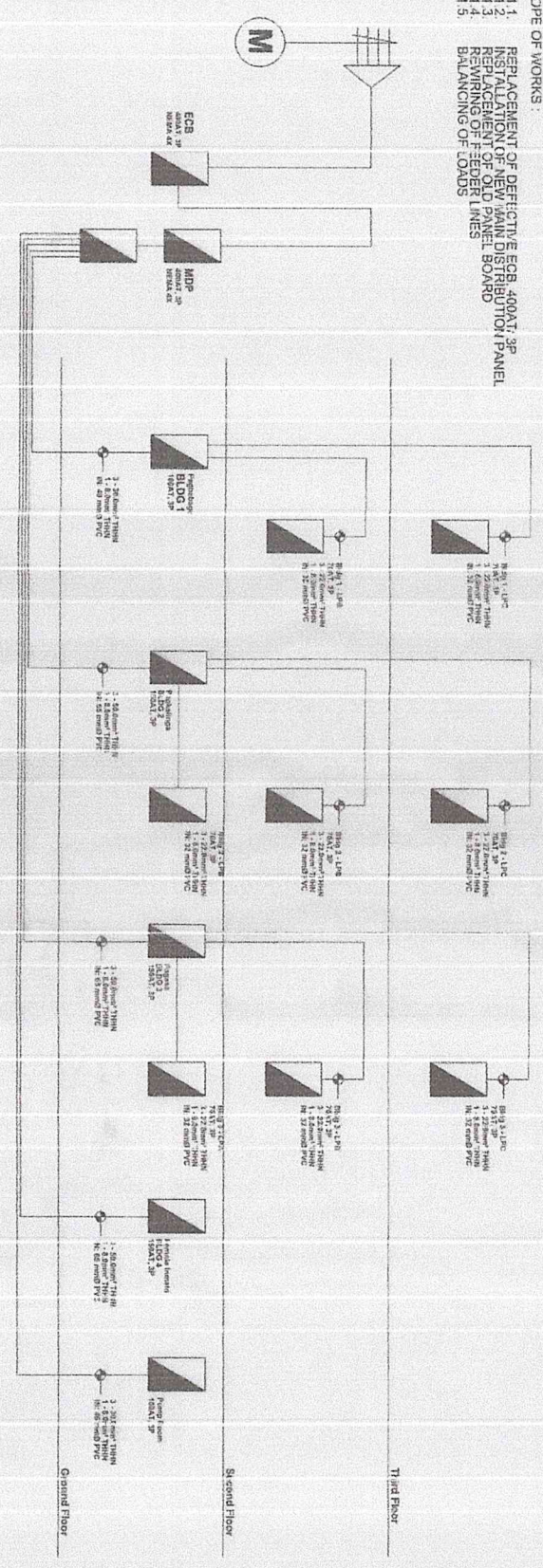
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CR. NO.	DESCRIPTION	VOL. (M ³)	NO.	UNIT	QTY.	EST. QTY.	EST. VALUE	WIRE	CONDUIT
1	Excavation	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
2	Rebar	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
3	Formwork	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
4	Concrete	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
5	Electrical	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
6	Paint	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
TOTAL		6.000	1200		1200	1200	1200		

CR. NO.	DESCRIPTION	VOL. (M ³)	NO.	UNIT	QTY.	EST. QTY.	EST. VALUE	WIRE	CONDUIT
1	Excavation	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
2	Rebar	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
3	Formwork	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
4	Concrete	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
5	Electrical	1.000	200	EA	200	200	200	1.50mm ² THHN + 1.50mm ² THHN	20mm PVC
TOTAL		6.000	1200		1200	1200	1200		

SCOPE OF WORKS

1. REPLACEMENT OF DEFECTIVE ECB 400A/1.3P
2. INSTALLATION OF NEW MAIN DISTRIBUTION PANEL
3. REPLACEMENT OF OLD PANEL BOARD
4. REWIRING OF FEEDER LINES
5. BALANCING OF LOADS



SINGLE LINE DIAGRAM

REPUBLIC OF THE PHILIPPINES
 CITY OF PASIG
 OFFICE OF THE MAYOR
ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PASIG CITY JAIL

LOCATION: BARANGAY PANGKALAN, PASIG CITY

DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 APPROVED BY: *[Signature]*

RECOMMENDING APPROVAL: *[Signature]*

APPROVED BY: *[Signature]*

SHEET / CONTIN: AS SHOWN

SHEET NO. E-6

DATE: APR 20, 2014



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE MAYOR
ENGINEERING DEPARTMENT

PROJECT TITLE
PROPOSED IMPROVEMENT OF ELECTRICAL SYSTEM AT PABISA CIVIL JAIL

ENGINEER
ENGR. MARCO JOSE P. TORRES
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
NO. 10101
PABISA CIVIL JAIL
MUNICIPALITY OF PABISA, AYALAN DIVISION CITY

APPROVED BY
ENGR. VICTOR M. REGIS N. SOTTO
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
NO. 10101
MUNICIPALITY OF PABISA, AYALAN DIVISION CITY

RECOMMENDING APPROVAL
ENGR. ARYANERES M. GECORNINGO
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
NO. 10101
MUNICIPALITY OF PABISA, AYALAN DIVISION CITY

APPROVED BY
Hon. VICTOR M. REGIS N. SOTTO
MAYOR
MUNICIPALITY OF PABISA, AYALAN DIVISION CITY

SHEET CONTENT
POWER LAYOUT

SHEET NO.
E-6
6/6

IMPORTANT NOTES:
1. CONSULTATION OF ALL NEARBY UTILITIES SHALL BE MADE PRIOR TO THE START OF CONSTRUCTION.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER AND CITY ENGINEER.
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER AND CITY ENGINEER.
4. THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE WORKS.

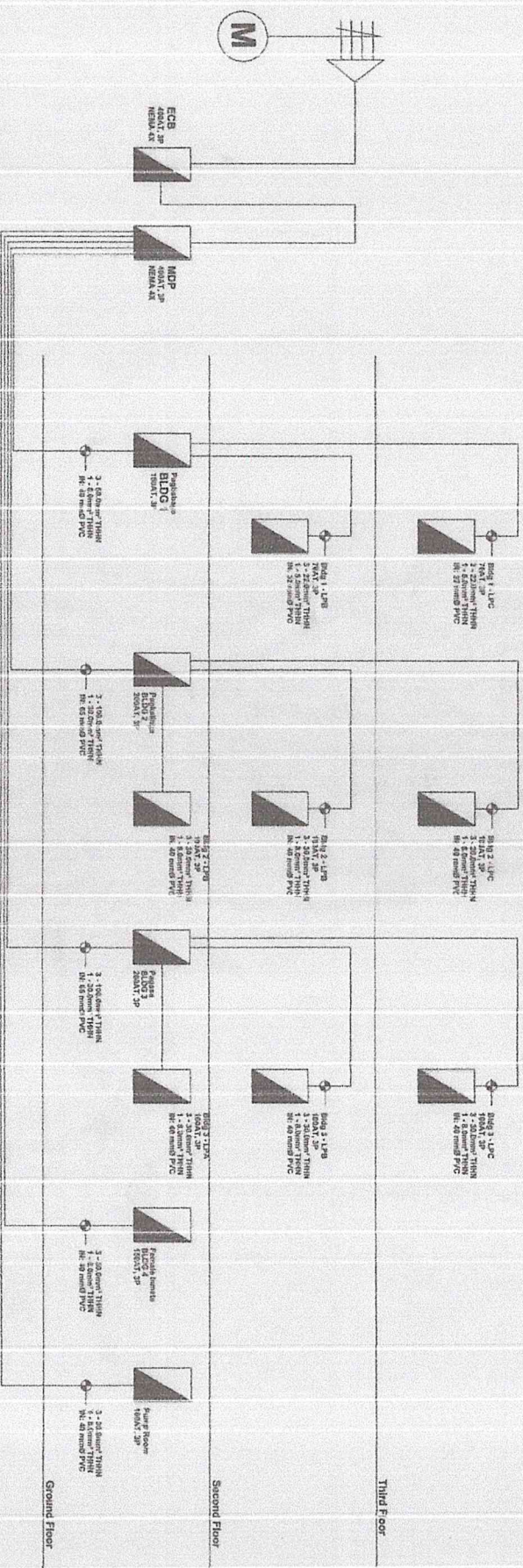
LOAD SCHEDULE: DP BLDG 2 - Pabisa Civil Jail

CIRCUIT NO.	DESCRIPTION	VA	VOLT	AMP	RS	CA	ABC	AT	AF	FT-LE	WIRE	CONDUIT
1	BLDG 1 CHIMNEY	2000.0	220	41.9	32.2	38.2	128	150	150	150	2 - 20 AWG THHN + 1 - 12 AWG THHN	40mm ² PVC
2	BLDG 2 PABISA CIVIL JAIL	4100.0	220	80.9	50.4	49.6	150	150	150	150	2 - 20 AWG THHN + 1 - 12 AWG THHN	40mm ² PVC
3	BLDG 3 PABISA CIVIL JAIL	5200.0	220	97.8	90.2	81.4	100	150	150	150	2 - 20 AWG THHN + 1 - 12 AWG THHN	40mm ² PVC
4	BLDG 4 PABISA CIVIL JAIL	3400.0	220	51.5	40.0	54.2	150	150	150	150	2 - 20 AWG THHN + 1 - 12 AWG THHN	40mm ² PVC
TOTAL		14800.0	220	280.0	234.1	223.3						

MAIN CIRCUIT: 400V / 3PH / 3W / 4W / 300A / MCB

COMPUTATION OF LOAD:
1 - 20 AWG THHN
1 - 12 AWG THHN

MAIN FEEDER WIRE:
USE: 3 - 20 AWG THHN
1 - 12 AWG THHN
16 mm² PVC



LOAD SCHEDULE
SCALE
N.T.S.

3/2 APPROVED
Victor M. Regis N. Sotto