PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHOOL AT BARANGAY STO. CRISTO

Project number: 23-00045

Sixth Edition July 2020

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the "Works") through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv)the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.

REPUBLIC OF THE PHILIPPINES QUEZON CITY GOVERNMENT



May 22, 2023

BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE &

CONSULTANCY

2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

		In	vitation	to Bid			
No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Bu	ildings –	- Small A					
1	23- 00042	Proposed Construction of Comfort Room at the ICT Room of Villa Verde Elementary School	Sta. Monica	269,069.46	30	Department of Engineering	Special Education Fund
Bu	ildings –	- Small B					
2	23- 00043	Proposed Rehabilitation of Perimeter Fence and Replacement of Main Gate of San Antonio Elementary School	Katipunan	3,112,634.21	60	Department of Engineering	Special Education Fund
3	23- 00044	Proposed Rehabilitation of Pugad Lawin High School Covered Court	Bahay Toro	3,796,351.96	60	Department of Engineering	Special Education Fund
4	23- 00045	Proposed Upgrading of Electrical System of San Francisco High School	Sto. Cristo	11,060,801.40	90	Department of Engineering	Special Education Fund
5	23- 00046	Proposed Construction of Quezon City Health Department Building including Red Cross Office (Phase 2)	Central	16,514,313.39	150	Department of Engineering	Engineering (Supplemental Budget No. 1) Continuing Appropriation
6	23- 00047	Proposed Retrofitting of QC Hall Main Building Air Conditioning System (Phase 4)	Central	19,730,460.56	180	Department of Engineering	Engineering (Supplemental Budget No. 1) Continuing Appropriation
7	23- 00048	Proposed Rehabilitation and Upgrading of Electrical System at Bagong Silangan Elementary School	Bagong Silangan	24,564,599.68	180	Department of Engineering	Special Education Fund
Bui	ildings –	Medium A					
8	23- 00049	Proposed Rehabilitation of San Bartolome High School	San Bartolome	50,033,897.53	180	Department of Engineering	Special Education Fund
Flo	od Cont	<u>rol – Small B</u>					
9	23- 00050	Proposed Rehabilitation of Trash Rake along Gregorio Araneta Avenue	Manresa and Masambong	9,666,871.52	120	Department of Engineering	OCM-20% Community Development Fund



Roa	ads – Sr	mall B					anna an an an Arits (1948) an t-a' Atabétar
10	23- 00051	Proposed Rehabilitation of Road and Drainage at Camia Alley	Roxas	1,884,758.90	60	Department of Engineering	OCM-20% Community Development Fund
11	23- 00052	Proposed Rehabilitation of Pathwalk and Drainage at Tagalog Area along Manunggal Street	Tatalon	4,481,123.28	90	Department of Engineering	OCM-20% Community Development Fund
12	23- 00053	Proposed Bike Lane and Sidewalk Improvement at Elliptical Road (Phase 1)	Various Barangay	16,011,226.97	180	Department of Engineering	OCM-20% Community Development Fund
13	23- 00054	Proposed Rehabilitation of Road and Drainage at Kasunduan Street and Katarungan Street (Portion only)	Commonwealth	16,725,263.62	180	Department of Engineering	OCM-20% Community Development Fund
Roa	ads – Me	edium A					
14	23- 00055	Proposed Rehabilitation of Road and Drainage at Martan, Sto. Niño and Pilot Drive	Commonwealth	100,608,716.14	180	Department of Engineering	OCM-20% Community Development Fund
Bui	ilding –	Small B					
15	23- 00056	Proposed Installation of Booster Pump, Water Tank and Pressure Tank at New SB Building in San Francisco High School	Sto. Cristo	993,398.92	60	Department of Engineering	Special Education Fund

- 1. The **QUEZON CITY LOCAL GOVERNMENT**, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using nondiscretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on 24 May 2023 (Wednesday) from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB.* The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person.*

STANDARD RATES:

Approved Budget for the Contract	Maximum Cost of Bidding Documents (in Philippine Peso)
500,000 and below	500.00
More than 500,000 up to 1 Million	1,000.00
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

- 1. PhilGEPS Registration Certificate (Platinum 3 Pages)
- 2. Document Request List (DRL)
- 3. Authorization to purchase bidding documents
 - 3.1 Secretary's Certificate (for corporation)
 - 3.2 Special Power of Attorney (for sole proprietorship)
- 4. Notarized Joint Venture Agreement (if applicable)
- 5. Letter of Intent

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The QC- BAC- INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on June 5, 2023 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) which shall be open to prospective bidders.

Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before June 21, 2023 9:00 AM. Late bids shall not be accepted.
- 8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
- 9. Bid opening shall be on June 21, 2023 1:00 PM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP) Meeting ID: 810 3646 5257 Password: 201522

10. The *Quezon City Local Government* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

11. For further information, please refer to:

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound Elliptical Road, Barangay Central Diliman, Quezon City. Tel. No. (02)8988-4242 loc. 8506/8710 Email Add: bacinfra.procurement@quezoncity.gov.ph Website: <u>www.quezoncity.gov.ph</u>

12. You may visit the following websites:

For	downloading	of	Bidding	Documents:	https://quezoncity.gov.ph/public-
notice	es/procurement/				

By:

ARCH. LUCN LE H. CHUA, fuap, piep Chairperson, BAC-Infra and Consultancy



Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH** SCHOOL AT BARANGAY STO. CRISTO, with Project Identification Number 23-00045.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2023 in the amount of Eleven Million Sixty Thousand Eight Hundred One Pesos and 40/100 Ctvs. (P 11,060,801.40).
- 2.2. The source of funding is:
 - *a.* LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or

through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding*, *state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. [If subcontracting is allowed during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the

implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. **Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on June 5, 2023, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in Section IX. Checklist of Technical and Financial Documents.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. Payment of the contract price shall be made in:
 - a. Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph **5** of the **IB**.

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

Bid Data Sheet

ITB Clause									
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.								
7.1	Subcontra	cting is not allowed.							
10.3	No addition	nal contractor license or per	nit is required						
	In addition	n, eligible bidders shall quali	fy or comply with t	he following:					
	1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)								
	Туре								
	Buil	ding - Small B							
10.4	The minin following:	num work experience requ	irements for key	personnel are th					
	Qnty.	Key Personnel	General Experience	Relevant Experience					
	1	Project-in-Charge	3 years	3 years					
	1	General Foreman	3 years	3 years					
	1	Civil Engineer	3 years	3 years					
	1	Electrical Engineer	3 years	3 years					
	1	Safety Officer	3 years	3 years					
	1	DPWH duly accredited							
		Materials Engineer	3 years	3 years					
10.5	notarized s for the pro	n, the bidder must execut tating that the foregoing per ject until its completion. Plea um major equipment require	sonnel shall perfor ase see attached bid	rm work exclusived d forms.					
		Equipment	Capacity	Number of Units					
	Chipping Gun -								
12	In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms. [Insert Value Engineering clause if allowed.]								
15.1		curity shall be in the form of a any of the following forms a		laration with project					

	a) The amount of not less than Php 221,216.03 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
	 b) The amount of not less than Php 553,040.07 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot
	and the lot shall not be divided into sub-lots for the purpose of bidding,
	evaluation, and contract award.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required:
	1. Construction Schedule and S-curve,
	2. Manpower Schedule,
	3. Construction Methods,
	4. Equipment Utilization Schedule,
	5. PERT/CPM or other acceptable tools of project scheduling, shall be
	included in the submission of Technical Proposal.

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
 - 3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. **Performance Security**

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the **SCC**, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC**.

15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 90 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the
	Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is <i>thirty (30) days</i> The date by which "as built" drawings are required as part of final payment
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.



Replublika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

5TH, 6TH, 7TH Floors, QC Civic Center Building "B" Telephone Nos. 8988-4242 Local 8538



PROJECT TITLE :

LOCATION :

PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHOOL AT BARANGAY STO. CRISTO 🖌 BARANGAY STO. CRISTO, DISTRICT 1, QUEZON CITY 🗸

TECHNICAL SPECIFICATIONS

OGR. GENERAL REQUIREMENTS

- A. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- D. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location, to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- E. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H. Mobilization and Demobilization (if applicable)
 - 1. Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- I. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Temporary Facilities and Utilities
 - 1. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

- 2. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- 3. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- 4. Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage.
- 5. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- 6. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - 1. A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 - 2. The medical room shall be provided with waterproofing; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - 3. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
 - 4. Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
 - 5. Construction safety shall consist construction canopy and safety net.
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance programs

SW. SITE WORKS

A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing work.

B. This Item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract. Removal and/or demolition of existing structures shall be done in accordance with safety procedures.

CWS. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORKS

1. Delivery, Storage, and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.

2. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

3. Materials

a) Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).

b) Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.

c) Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters.

d) Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

4. Proportioning and Mixing

a) Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:

Cement: Sand: Gravel Class "A" - 1: 2: 3 Class "B" - 1: 2: 4 Class "C" - 1: 2 ½

b) Concrete mixture to be used for concrete shall conform with the structural requirements.

c) Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

5. Forms

a) General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be 1/4" (6mm) thick ordinary plywood and form lumber.

b) Cleaning of Forms – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.

c) Removal of Forms – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

6. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary tie wires, chairs, spacers, supports and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil, grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

7. Conveying and Placing Concrete:

a) Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.

b) Placing – concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.

c) Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolutions of the machine mixer.

d) Consolidation of Concrete – concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.

e) Placing Concrete through reinforcement – In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

8. Curing

a) General – All concrete shall be moist cured for a period not less than seven
 (7) consecutive days by an approved method or combination applicable to local conditions.

b) Moist Curing – The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

9. Finishing

a) Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.

b) Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

AW. ARCHITECTURAL WORKS

B. PAINTING WORKS

1. Paint Materials. All types of paint material and other related products shall be subject to test as to material composition by the Bureau of Research and Standard, DPWH or the National Institute of Science and Technology.

2. Tinting Colors. Tinting colors shall be first grade quality pigment ground in alkyd resin that disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body.

3. Skim coat. Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.

- 4. Paint Schedule.
 - a) Exterior Masonry Wall (plain cement plastered finish to be painted)

i. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish

b) Interior Masonry Wall (plain cement plastered finish to be painted)

i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish

c) Interior Dry Wall

i. 1 coat primer, 2 coats latex paint finish

d) Ceiling Boards

i. 1 coat primer, 2 coats latex paint finish

e) Slab Soffit

i. 1 coat primer, 2 coats latex paint finish

- f) Metal / Steel Surfaces
 - i. 1 coat primer, 2 coats epoxy enamel finish

5. Surface Preparation. All surfaces shall be in proper condition to receive the finish. Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be sealed with natural wood filler. Nail holes, cracks or defects shall be carefully puttied after the first coat, matching the color of paint.

Interior woodworks shall be sandpapered between coats. Cracks, holes of imperfections in plaster shall be filled with patching compound and smoothed off to match adjoining surfaces.

Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry before any painting primer coat is applied. When surface is dried apply first coating. Hairline cracks and unevenness shall be patched and sealed with approved putty or patching compound. After all defects are corrected apply the finish coats as specified on the Plans (color scheme approved).

Metal shall be clean, dry and free from mill scale and rust. Remove all grease and oil from surfaces. Wash, unprimed galvanized metal with etching solution and allow it to dry. Where required to prime coat surface with Red Lead Primer same shall be approved by the Engineer.

In addition, the Contractor shall undertake the following:

- a. Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
- b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- c. Panting and varnishing works shall not be commenced when it is too hot or cold.
- d. Allow appropriate ventilation during application and drying period
- e. All hardware will be fitted and removed or protected prior to painting and varnishing works.

6. Application. Paints when applied by brush shall become non-fluid, thick enough to lay down as adequate film of wet paint. Brush marks shall have flawed out after application of paint.

Paints made for application by roller must be similar to brushing paint. It must be non-sticky when thinned to spraying viscosity so that it will break up easily into droplets.

Paint is atomized by high pressure pumping rather than broken up by the large volume of air mixed with it. This procedure changes the required properties of the paint.

7. Application shall be as per paint Manufacturer's specification and recommendation.

8. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.

9. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.

10. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.

11. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.

12. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

EW. ELECTRICAL WORKS

A. CONDUITS, BOXES AND FITTINGS

- This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughingin work of this project.
- 2. All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
- All works throughout shall be executed in the best practice in a workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- 5. All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
- All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- 7. All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.
- 8. Upon completion of the electrical construction work, the contractor shall provide all test equipment and personnel and to submit written copies of all test results.
- 9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES

- This Item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
- Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be

insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.

- 3. Conductors or wires shall not be drawn in conduits until after the cement piaster is dry and the conduits are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional splices.
- 4. All conductors of convenience outlets and lighting branch circuit homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panelboards shall not be smaller than 3.5 mm but all homeruns to panelboard more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
- 5. All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
- 6. All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
- 7. No splices or joints shall be permitted in either feeder or branch conductors except within outlet boxes or accessible junction boxes or pull boxes. All joints in branch circuit wiring shall be made mechanically and electrically secured by approved splicing devices and taped with rubber arid PVC tapes in a manner which will make their insulation as that of the conductor.
- All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
- 9. When more than one switch or device is indicated in a single location, gang plate shall be used.

C. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS

- 10. This Item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgear arid distribution panelboards at the location shown or the approved Plans complete with transformer, circuit breakers, cabinets and all accessories, completely wired and ready for service.
- 11. All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
- 12. Power Load Center Unit Substation. The Contractor shall furnish and install an indoortype Power Load Center Unit Substation at the location shown on the approved Plans if required. It shall be totally metal-enclosed, dead front and shall consist of the following coordinated component parts:
 - a. High Voltage Primary Section. High voltage primary incoming line section consisting of the following parts and related accessories:
 - i. One (1) Air-filled Interrupter Switch, 2-position (open-close) installed in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interlock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
 - ii. Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.

- iii. One 1) set of high voltage potheads or 3-conductor cables or three single conductor cables.
- iv. Lightning arresters shall be installed at the high voltage cubicle if required.

Items (i) and (ii) above could be substituted with a power circuit breaker with the correct rating and capacity.

b. Transformer Section. The transformer section shall consist of a power transformer with ratings and capacities as shown on the plans. it shall be oil liquid-filled nonflammable type and designed in accordance with the latest applicable standards.

The transformer shall be provided with four (4) approximately 2 1/2 % rated KVA taps on the primary winding in most cases one (1) above and three (3) below rated primary voltage and shall be changed by means of externally gang-operated manual tap changer only when the transformer is de-energized. Tap changing under load is acceptable if transformer has been so designed.

The following accessories shall be provided with the transformer, namely: drain valve, sampling device, filling connection, oil liquid level gauge, ground pad, top filter press connection, lifting lugs, diagrammatic nameplate, relief valve, thermometer and other necessary related accessories.

The high-voltage and low-voltage bushings and transition flange shall be properly coordinated for field connection to the incoming line section and low voltage switchboard section, respectively.

- c. Low Voltage Switchboard Section. The low-voltage switchboard shall be standard modular-unitized units, metal-built, dead front, safety type construction and shall consist of the following:
 - i. Switchboard Housing. The housing shall be heavy gauge steel sheet, dead front type, gray enamel finish complete with frame supports, steel bracings, steel sheet panelboards, removable rear plates, copper busbars, and all other necessary accessories to insure sufficient mechanical strength and safety. It shall be provided with grounding bolts and clamps.
 - ii. Secondary Metering Section. The secondary metering section shall consist of one (1) ammeter, AC, indicating type; one (1) voltmeter, AC, indicating type, one (1) ammeter transfer switch for 3-phase; one (1) voltmeter transfer switch for 3-phase; and current transformers of suitable rating and capacity.

The above-mentioned instruments shall be installed in one compartment above the main breaker and shall be complete with all necessary accessories completely wired, ready for use.

iii. Main Circuit Breaker. The main circuit breaker shall be draw-out type, manually or electrically operated as required with ratings and capacity as shown on the approved Plans.

The main breaker shall include insulated control switch if electrically operated, manual trip button, magnetic tripping devices, adjustable time overcurrent protection and instantaneous short circuit trip and all necessary accessories to insure safe and efficient operation.

iv. Feeder Circuit Breakers. There shall be as many feeder breakers as are shown on the single line diagram or schematic riser diagram and schedule of loads and computations on the plans. The circuit breakers shall be drawout or molded case as required. The circuit breakers shall each have sufficient interrupting capacity and shall be manually operated complete with trip devices and all necessary accessories to insure safe and efficient operation. The number, ratings, capacities of the feeder branch circuit breakers shall be as shown on the approved Plans.

Circuit breakers shall each he of the indicating type, providing 'ON' - "OFF and "TRIP" positions of the operating handles and shall each be provided with nameplate for branch circuit designation. The circuit breaker shall be so

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designed that an overload or short on one pole automatically causes all poles to open.

- d. Low Voltage Switchgear (For projects requiring low-voltage switchgear only). The Contractor shall furnish and install a low-voltage switchgear at the location shown on the plans. It shall be natal-clad, dead front, free standing, safety type construction and shall have copper busbars of sufficient size, braced to resist allowable root mean square (RMS) symmetrical short circuit stresses, and all necessary accessories. The low-voltage switchgear shall consist of the switchgear housing, secondary metering, main breaker and feeder branch circuit.
- e. Grounding System. All non-current carrying metallic parts like conduits, cabinets and equipment frames shall be properly grounded in accordance with the Philippine Electrical Code, latest edition.

The size of the ground rods and ground wires shall be as shown on the approved Plans. The ground resistance shall not be more than 5 ohms.

f. Panelboards and Cabinets. Panelboards shall conform to the schedule of panelboards as shown on the approved Plans with respect to supply characteristics, rating of main lugs or main circuit breaker, number and ratings and capacities of branch circuit breakers.

Panelboards shall consist of a factory completed: dead front assembly mounted in an enclosing flush type cabinet consisting of code gauge galvanized sheet steel box with trim and door. Each door shall be provided with catch lock and two (2) keys. Panelboards shall be provided with directories and shall be printed to indicate load served by each circuit.

Panelboard cabinets and trims shall be suitable for the type of mounting shown on the approved Plans. The inside and outside of panelboard cabinets and trims shall be factory painted with one rust-proofing primer coat and two finish shop coats of pearl gray enamel paint.

Main and branch circuit breakers for panelboards shall have the rating, capacity and number of poles as shown on the approved Plans. Breakers shall be thermal magnetic type. Multiple breaker shall he of the common trip type having a single operating handle. For 50-ampere breaker or less, it may consist of single-pole breaker permanently assembled at the factory into a multi-pole unit.

13. The Contractor shall install the Power Load Center Unit Substation or Low-Voltage Switchgear and Panelboards at the locations shown on the approved Plans.

Standard panels and cabinets shall be used and assembled on the job. All panels shall be of dead front construction furnished with trims for flush or surface mounting as required.

D. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).

E. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.

F. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.

G. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.

H. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

I. PANELBOARDS

- 14. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- 15. Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - a. Rated for environmental conditions at installed location.
 - i. Indoor Dry and Clean Locations: NEMA, Type 1.
 - ii. Outdoor Locations: NEMA, Type 3R.
 - iii. Kitchen and Wash-Down Areas: NEMA, Type 4X, stainless steel.
 - iv. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 12.
 - v. Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 5R.
 - b. Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - c. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
 - d. Skirt for Surface-Mounted Panelboards: Same gauge and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
 - e. Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
 - f. Finishes:
 - i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
 - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
 - g. Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.

- 16. Incoming Mains Location: Top or Bottom.
- 17. Phase, Neutral, and Ground Buses:
 - a. Material: Hard-drawn copper, 98 percent conductivity.
 - b. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
 - c. Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

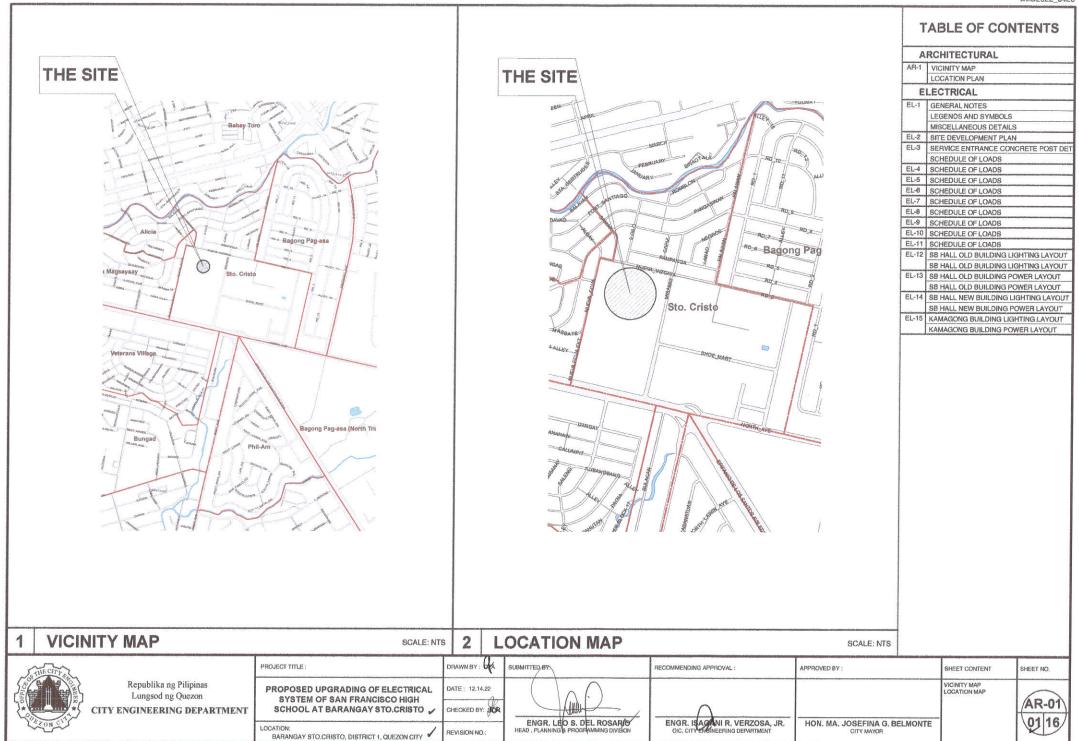
ALVIN FRANCIS C. ABON Planning and Programming Division

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Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

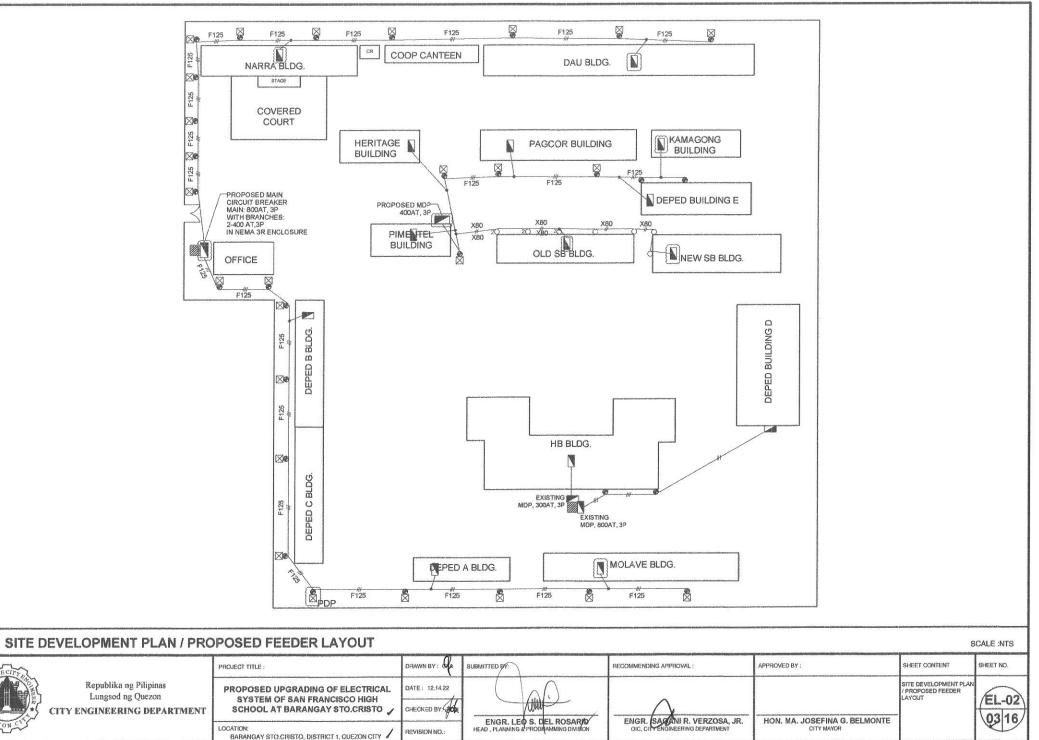
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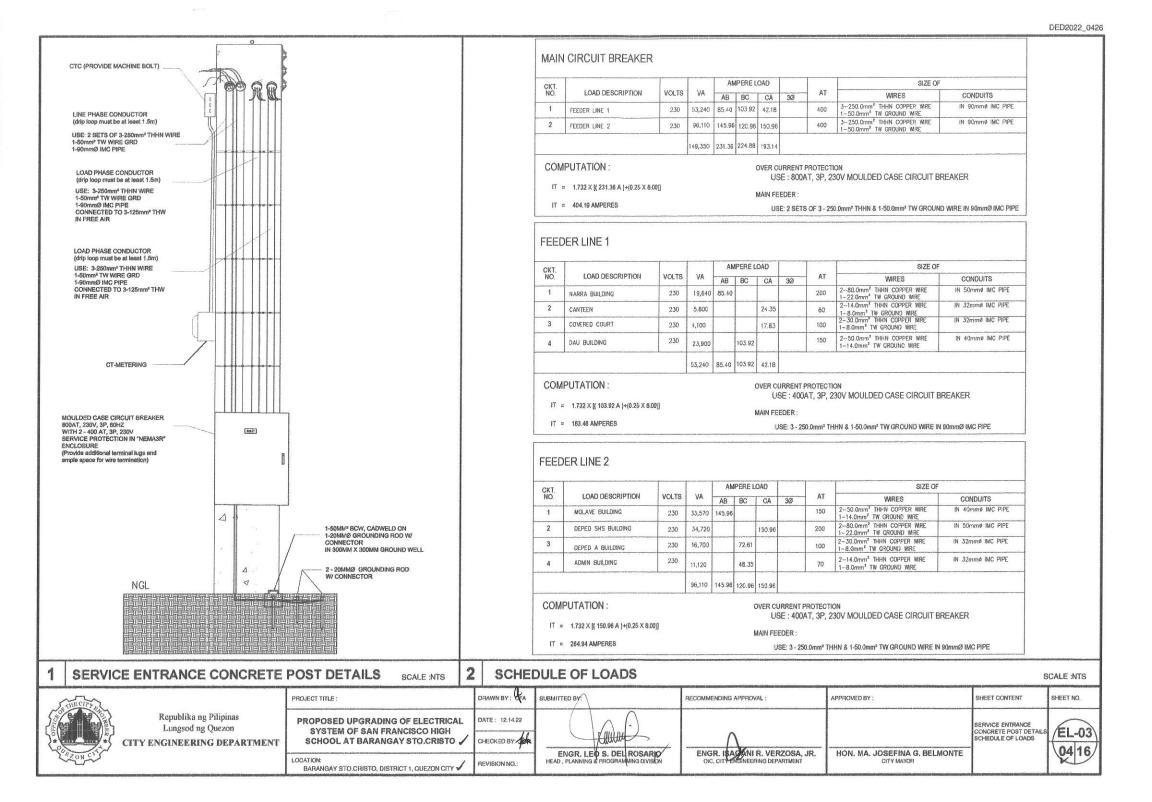


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ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE. 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF MAGNETIC MCCB IN NEMA 3R WEATHERPROOF ENCLOSURE. 5. INSTALLATION OF LIGHTING AND POWER SYSTEM 15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL B THHINTHWN COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SHALL BE 3.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHA CODED AS FOLLOWS: PHASE A - RED PHASE B - YELLOW PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN BEEN	F THERMAL BE 3.5 SQ. MM. M SIZE OF WIRE ALL BE COLOR	RATINGS AN SEQUENCES 15.6. ALL MA BE OF THE B TYPE FOR TI	DI LOCATIONS O S AS SPECIFIED VITERIALS TO BE SEST QUALITY, B HE PARTICULAR	F EQUIPMENT AS WELL AS THEIR CONTR AND OR SHOWN UNDER THEIR RESPECT USED AND THE EQUIPMENT TO BE INST/ RAND NEW AS SPECIFIED. IT MUST BE A LOCATION AND PURPOSE INTENDED.	IVE SECTIONS.	PROPER 3	OCTADONA BOX CONDUT CLASE CONCUT CONCUT CONCUT CONCUT FIENDED STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT STRAIG STR	YOUT at PULL BOX	BONDED * ACTE CONDER BLANK CR CONTROL CARACTER CONTROL AND	ACCEWAY TERMINATION FO	DR SHEE
ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE. 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF MAGNETIC MCCB IN NEMA 3R WEATHERPROOF ENCLOSURE. 5. INSTALLATION OF LIGHTING AND POWER SYSTEM 15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL E THHINTHWN COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SHALL BE 3.5 SQ. MM, COPPER WIRE. ALL WIRES AND CABLES SHA CODED AS FOLLOWS: PHASE A - RED PHASE B - YELLOW PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN BELOWD - GREEN PROJECT Republika ng Pilipinas PROPERTION OF MALL BE OF PROPERTION OF LIGHTING AND PROJECT PROPERTION OF MALL BE OF MAGNETIC MINIMUM SHALL BE 3.5 SQ. MM, COPPER WIRE. ALL WIRES AND CABLES SHA CODED AS FOLLOWS: PHASE A - RED PHASE B - YELLOW PHASE B - YELLOW PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN PROJECT PROPERTION OF MALL BE STATEMENT OF MALL BE SHA CODED AS FOLLOWS: PHASE A - RED PROJECT PROPERTION OF MALL BE STATEMENT OF MALL BE SHA PROJECT	F THERMAL BE 3.5 SQ, MM, M SIZE OF WIRE ALL BE COLOR	RATINGS AN SEQUENCES 15.6. ALL MA BE OF THE B TYPE FOR TI OF ELECTRICAL	ID LOCATIONS O S AS SPECIFIED , ITERIALS TO BE SEST QUALITY, B HE PARTICULAR	F EQUIPMENT AS WELL AS THEIR CONTR AND OR SHOWN UNDER THEIR RESPECT USED AND THE EQUIPMENT TO BE INST/ RAND NEW AS SPECIFIED. IT MUST BE A LOCATION AND PURPOSE INTENDED.	IVE SECTIONS.	PROPER 3	OCTADONA BOX CONDUT CLASE CONCUT CONCUT CONCUT CONCUT FIENDED STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT STRAIG STR	YOUT at PULL BOX	BONDED * ACTE CONDER BLANK CR CONTROL CARACTER CONTROL AND	ACCEWAY TERMINATION FO	NE SHEE SCALL BHEET
ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE. 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF MAGNETIC MCCB IN NEMA 3R WEATHERPROOF ENCLOSURE. 5. INSTALLATION OF LIGHTING AND POWER SYSTEM 15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALLE THHINTHWN COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SHALL BE 3.5 SQ. MM, COPPER WIRE. ALL WIRES AND CABLES SHA CODED AS FOLLOWS: PHASE A - RED PHASE A - RED PHASE B - YELLOW PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN Republika ng Pilipinas Lungsod ng Quezon PROP SY	F THERMAL BE 3.5 SQ. MM. M SIZE OF WIRE ALL BE COLOR	RATINGS AN SEQUENCES 15.6. ALL MA BE OF THE B TYPE FOR TI OF ELECTRICAL NCISCO HIGH	DI LOCATIONS O S AS SPECIFIED VITERIALS TO BE SEST QUALITY, B HE PARTICULAR	F EQUIPMENT AS WELL AS THEIR CONTR AND OR SHOWN UNDER THEIR RESPECT USED AND THE EQUIPMENT TO BE INST/ RAND NEW AS SPECIFIED. IT MUST BE A LOCATION AND PURPOSE INTENDED.	IVE SECTIONS.	PROPER 3	OCTADONA BOX CONDUT CLASE CONCUT CONCUT CONCUT CONCUT FIENDED STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT CONCUT STRAIGHT STRAIG STR	YOUT at PULL BOX	BONDED * ACTE CONDER BLANK CR CONTROL CARACTER CONTROL AND	PRACEWAY TERMINATION FO	SCALE SHEET
ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE. 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF MAGNETIC MCCB IN NEMA 3R WEATHERPROOF ENCLOSURE. 15. INSTALLATION OF LIGHTING AND POWER SYSTEM 15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL E THHINTHWN COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SHALL BE 3.5 SQ. MM, COPPER WIRE. ALL WIRES AND CABLES SHA CODED AS FOLLOWS: PHASE A - RED PHASE A - RED PHASE B - YELLOW PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN Republika ng Pilipinas Lungsod ng Quezon PROP SY	F THERMAL BE 3.5 SQ. MM. M SIZE OF WIRE ALL BE COLOR TITLE : POSED UPGRADING YSTEM OF SAN FRAI HOOL AT BARANGA	RATINGS AN SEQUENCES 15.6. ALL MA BE OF THE B TYPE FOR TI OF ELECTRICAL NCISCO HIGH	DILOCATIONS O S AS SPECIFIED SEST QUALITY, B HE PARTICULAR DRAWN BY: Offer DATE: 12.14.22	F EQUIPMENT AS WELL AS THEIR CONTR AND OR SHOWN UNDER THEIR RESPECT USED AND THE EQUIPMENT TO BE INST/ RAND NEW AS SPECIFIED. IT MUST BE A LOCATION AND PURPOSE INTENDED.	IVE SECTIONS.	PROPER 3	PERAORMA SCHOOL CONCUT EDBACK	YOUT at PULL BOX	RUN FOR LIGHT INDEPENDENT	ARCEWAY TERMINATION FO	DR SHEET







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1.00	RRA BUILDING : GROUND-SECOND FLOOR TY	ICAL (EXISTING)			MOUNTING: NEMA POWDERED COAT	1, SURFACE MOUNTED WITH GRAY ED FINISH																	
CK	1. LOAD DESCRIPTION			-		SIZE	05																	
NI				AMP.	AT	WIRES 2-3.5mm ² THHN COPPER WIRE	CONDUITS IN 20ram# PVC PIPE	-					in his hours											
1	8-LIGHTING FIXTURES	230	400	1.74	15	1-3.5mm ² TW GROUND WRE		_			ſ	NARRA	BUILD	DING :						TING: NEM/ SERED COAT	M, SURFACE	HOUNTED V	ITH GRAY	
2	8-LIGHTING FIXTURES	230	400	1.74	15	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE					MAIN DIS	RIBUTION	PANEL: GROUND FLOOR (PROP	POSEU)	-								
3	8-LIGHTING FIXTURES	230	400	1.74	15	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mm# PVC PIPE					CKT.		LOAD DESCRIPTION	VOLTS	VA AM	AT		592	E OF				
4	8-LIGHTING FIXTURES	230	400	1.74	15	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 2Dmm# PVC PIPE				-	1		LPPA	230	9,820 42.70		2-30.0m/m ² 1HHH CO 1-8.0m/m ³ 1HH CO	PPER WRE		IN	CONDU 40mm# F		
5	8-LIGHTING FIXTURES	230	400	1.74	15	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ⁴ TW GROUND WIRE	IN 20mm# PVC PIPE]				2		LPPB	230	9,820 42.7	100	2-30.0mm ² TH GROUN	DOCK MAR	_	14	40mm# P	VÇ PIPE	
6	10-LIGHTING FIXTURES	230	500	2.17	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mm# PVC PIPE				ŀ					19,640 85.40		<u></u>						
7	10-ORBIT FAN	230	1,500	6.52	20	2-3.5mm ² THIN COPPER WRE 1~3.5mm ³ TW GROUND WRE	IN 20mm# PVC PIPE					COMPUT	FATION :			OVER CURRENT								
8	10-ORBIT FAN	230	1,500	6.52	20	2-3.5mm ⁴ THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE	1				17	≈ 85.40	AMP		USE : 200AT	2P, 230V N	IOULDED CASE CIRCUIT B	REAKER				And a second sec	
9	6-CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mm# PVC PIPE	-								USE : 2 -80.0	mmª THHN mØ IMC PI	& 1-22.0mm ² TW GROUND 1	WIRE					
10	6-CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm* THHN COPPER WRE	IN 20mm# PVC PIPE											-						
11		230		4.70	20	1-3.5mm ² TW GROUND WRE 2-3.5mm ² THIN COPPER WRE	IN 20mm# PVC PIPE				بية 						1 [f	
						1-3.5mm ² TW GROUND WRE 2-3.5mm ² THEN COPPER WRE	NI 20 DV2 0/05		RED COURT : Existing)						NOUN	TING: NEMA3R		BUILDING : BROUND FLOOR (PROPOSED)					MOUNTING: NÉMA1, B POWDERED COATED F	REACE MOUNTED WITH GRAV NBH
12	6-CONVENIENCE OUTLET	230	1.080	4.70	20	1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE	CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	formation and a second second	SIZE OF		CKT.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE DI	
			9,820	42.70				1	10-LIGHTING FIXTURES	230	500	2.17	40	WIRES 2-3.5mm ⁸ THHN COPPER WI 1-3.5mm ⁴ TW GROUND WIRE	IRE IN 2	CONDUITS	1	6-LIGHTING FIXTURES	230		2.61	20	WIRES 2-3.bram ⁴ FHN COPPER WRE	IN 20mms PVC RIPE
CC	OMPUTATION :		OVE	R CURRE	NT PROTEC	STION		2	6-LIGHTING FIXTURES	230	300	1.31	40	2-3.5mm* 1W GROUND WRE 2-3.5mm* THIN COPPER WE 1-3.5mm* TW GROUND WRE		IOmm# PVC PIPE	2	2-ORBIT FAN 6-LIGHTING FIXTURES	230		2.61	20	1-3.5mm ² TW GROUND WRE 2-3.5mm ⁴ FHIN COPPER WRE 1-3.5mm ⁴ TW GROUND WRE	IN 20mm# PVC PIPE
ŕ	T = 42.70 AMP.		USE	: 100AT	2P, 230V	MOULDED CASE CIRCUIT BF	REAKER	3	10-CONVENENCE OUTLET	230	1,800	7.83	20	2~3.5mm ⁸ THIN COPPER WE 1~3.5mm ⁸ THIN COPPER WE		Omme PVC PIPE	3	2-ORBIT FAN 6-LIGHTING FIXTURES 2-ORBIT FAN	230		2:61	20	2-3.brim ² AHN COPPER WRE 1-3.brim ² TW GROUND WRE	IN 20mm# PVC PIPE
				FEEDER			. New York	4	5-FAN	230	750	3.26	20	2-3,5mm* THHN COPPER WE 1-3.5mm* TW GROUND WRE	RF W 2	Omm# PVC PIPE	4	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THIN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm@ PVC PIPE
			USE		mø PVC	& 1-8.0mm ^a TW GROUND WIF PIPE	(E	5	S-FAN	230	750	3.26	20	2-3.5mm ⁴ THN COPPER WI 1-3.5mm ⁴ TW GROUND WRE	RF IN 2	Omme PVC PIPE	δ	G-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² 7HN COPPER WRE 1-3.5mm ² 7W GROUND WIRE	th 20mm# PVC PIPE
					1.000 est mai - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 -			6	SPACE	230							8	15-UGHTING FIXTURES	230	750	3.26	20	2-3 brim ¹ NHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmed PVC PIPE
								7	SPACE	230							7	10CONVENIENCE OUTLET	230	1,800	7.83	20	2-3.6mm ² THIN COPPER WAE 1-3.6mm ² THIN COPPER WAE	IN 20mm# PVC PIPE
-	and a second			the contraction					<u> </u>		4,100	17.83		L			8	10-CONVENIENCE DUTLET	230	1,800	7.83	20	2-3.5mm ² SHHN COPPER WRE 1-3.5mm ⁴ TW GROUND WRE	IN 20mm# PVC PIPE
	TEEN / COOP:					MOUNTING: HEMA1, S POWDERED COATED	SURFACE MOUNTED WITH GRAY		DUITATION -	*****	1				l		g	F-AR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm ¹ THE COPPER MRE 1-3.5mm ⁴ TW GROUND WRE	IN 25mm# PVC PIPE
	EXISTING		[]			617F 0			IPUTATION : = 17.83 AMP.			CURREN		MOULDED CASE CIRCUI	IT BREAKER		10.	I-AR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm ¹ THIN COPPEN WAE 1-3.5mm ¹ TW GROUND WRE	IN 25mmid PVC PIPE
CKT.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE O WIRES	CONDUITS		- H.W.MRC.			FEEDER	n ^a THHN	& 1-8.0mm ^a 'TW GROUND	WIRF		11	1-AR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm ⁴ THHIS COPPER WIRE 1-3.5mm ³ TW GROUND WIRE	IN 25mmd FVC PIPE
î	16-LIGHTING FIXTURES	230	800	3.48		2-3.5mm ² 3HHN COPPER WIRE 1-3.5mm ³ TW GROUND WIRE	IN 20mm# PVC PIPE					IN 32mr	nØ IMC	albE			12:	1-AR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm* 7HM COPPER WRE 1-3.5mm* TW GROUND WRE	IN 25mml PVC PIPE
2	10-CONVENIENCE OUTLET	230	1,800	7.83	30	25.5mm* THHN COPPER WRE 1-3.5mm* TW GROUND WRE	IN 25mm# PVC PIPE										13	1-AIR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm ² THIN COPPER MIKE 1-3.5mm ⁸ TW GROUND WIRE	IN 25mmil PVC PIPE
3	10-CEILING FAN	230	1,500	6.52		2-3.5mm ⁴ THAN COPPER WIRE 1-3.5mm ⁴ TW GROUND WIRE	IN 20mm# PVC PIPE										14	SPARE	230	insie		30		5.000
4	1-REF	230	1,500	6.52		25.5mm* THHN COPPER WRE 1-3.5mm* TW GROUND WRE	IN 25mm# PVC PIPE												anama na na nataon	18,550	71.96			
5	SPACE	230				1-3.200 WKC											CON	IPUTATION :		OVER	CURREN	TPROTE	TION MOULDED CASE CIRCUIT BRE	KER
			5.000															 71 96 + (0.25 * 8.00) AMP. 73.96 AMP. 			FEEDER			
	MPUTATION ; = 24.35 AMP.		USE :	60AT, 24	PROTECT	ION DULDED CASE CIRCUIT BREA	KER											a de constante de la constante		USE	: 2 - 30m IN 40m	m² THHN nØ PVC	& 1-8.0mm ³ TW GROUND WIRE PIPE	f ver for a star of the balance was a star star.
	nani (princi a tini a tinja gana a najao na patema na patema	unantesso yra systematica		EEDER: 2 - 14.0n IN 25mm	nmª THHN NØ IMC PII	8, 1-8.0mm² TW GROUND WIF	KE	an a		engewennt i det biske		contractory control				at a star of the				aanoo oo ah dahaan	rigtowend when the stars of			
	SCHEDULE	OF LO	ADS	3								1												SCALE :NTS
Ser.	ECITY					PROJECT TITLE :			DRAWN BY : CA	SUBMITT	ED BY		eter teter teter	RE	ECOMMENDIN	ig approval :		APPROVED	ВΥ :				SHEET CONTENT	SHEET NO.
		Republik Lungsoc NGINEE	l ng Qu	ezon	RTMEN	SYSTEM OF	GRADING OF ELECTI SAN FRANCISCO HIK BARANGAY STO.CRK	эн	DATE: 12.14.22 CHECKED BY: TOP			1/w				Δ	nikal-terendika katan						SCHEDULE OF LOADS	EL-04
142	ON CON	na ni z troje z trojen z trojen z trojen	official and so for the	All Marchine Training and		LOCATION: BARANGAY STO.C	RISTO, DISTRICT 1, OUEZON		REVISION NO.;	E HEAD ,	VGR. L PLANNIN	IG & PRO	DGRAM	ROSAR/O	DIC, CIT	ENGINEERING	ERZOS	A, JR. HON. M		EFINA Y Mayof		.MON		05 16

CKT						SIZE OF	
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	6-LIGHTING FIXTURES 2-ORBIT FAN	230	608	2.61	20	2-3.5mm ² THHN COPPER MRE 1-3.5mm ² TW GROUND WRE	IN 20mm@ PVC FIPE
2	6-LIGHTING FIXTURES 2-ORBIT FAN	230	609	2.61	20	2-3.5mm ³ THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm@ PVC FIPE
3	6-LIGHTING FIXTURES 2ORBIT FAN	230	600	2.61	20	2-3.5mm [#] THEN COPPER MRE 1-3.5mm [#] TW GROUND WRE	IN 20mm# PVC PIPE
4	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THEN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE
5	6~LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ^s THIM COPPER WRE 1-3.5mm ^r TW GROUND WRE	IN 20mmø PVC PIPE
6	15-LIGHTING FIXTURES	230	750	3.26	20	2-3.5mm ⁴ THHN COPPER WRE 1-3.5mm ⁴ TW GROUND WRE	IN 20mm@ PVC PIPE
7	10-CONVENIENCE OUTLET	230	1,800	7.83	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm@ PVC FIPE
8	10-CONVENSENCE OUTLET	230	1,800	7.83	20	2-3.5mm ^a THHN COPPER WRE 1-3.5mm ^a TW GROUND WRE	IN 20mm# PVC FIPE
			7,350	31.96	and the second	an fan de antinen de besen de anne de anne de antinen de antinen de la seconda de se seconda de anne en de seco	fy an and a second s

OVER CURRENT PROTECTION:

MAIN FEEDER

USE : 100AT, 2P, 230V MOULDED CASE CIRCUIT BREAKER

CKT.						SIZE OF	SIZE OF			
NO.	LOAD DESCRIPTION	VOL TS	VA	AMP.	A۲	WIRES	CONDUITS			
1	LPPA	2.30	16,550	71.96	100	2-30.0mm ¹ THHN COPPER MRE 1-8.0mm ¹ TW GROUND WIRE	IN 40mmø PVC PIP			
2	LPP3	230	7,350	31.96	100	2~30.0mm ⁴ THHN COPPER WIRE 1-8.0mm ³ TW GROUND WIRE	IN 40mmø PVC PIP			
			23,900	103.92						
COMPUTATION		l	0.00.0	VRRENT PRO	1	ke				

USE : 2 -50.0mm² THHN & 1-14.0mm² TW GROUND WIRE IN 50mmØ IMC PIPE

COMPUTATION :

IT = 31.96 AMP.

USE : 2 - 30mm² THHN & 1-8.0mm² TW GROUND WIRE IN 40mmØ PVC PIPE

KT.						SIZE OF	:
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	12-LIGHTING FIXTURES 4-ORBIT FAN	230	1,200	5.22	20	2-3.5mm ² THIN COPPER WRE 1-3.5mm ⁴ TW GROUND WRE	IN 20mm≢ PVC PIPE
2	12-LIGHING FIXTURES 4-ORBIT FAN	230	1,200	5.22	20	2-3.5mm ³ THHN COPPER WRE 1-3.5mm ³ TW GROUND WIRE	IN 20mm# PVC PIPE
3	12-LIGHTING FIXTURES 4ORBIT FAN	230	1,200	5.22	20	2-3.5mm ³ THHN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN 20mm# PVC PIPE
4	12-LIGHTING FIXTURES 4-ORBIT FAN	230	1,200	5.22	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PVC PIPE
5	20-LIGHTING FIXTURES	230	1,000	4.35	20	2-3.5mm* THEN COPPER WRE 1-3.5mm* TW GROUND WRE	IN 20mm# PVC PIPE
6	8-CONVENIENCE OUTLET	230	1,440	6.26	20	2-3.5mm ¹ THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE
7	8-CONVENIENCE OUTLET	230	1,440	6.26	20	2-3.5mm ⁴ THHN COPPER WRE 1-3.5mm ⁴ TW GROUND WRE	IN 20mm# PVC PIPE
8	SPACE	230	-		—	areas.	
9	SPACE	230				propriet and an an a	
			8,680	37.74			
	PUTATION : 37.74 AMP.		USE MAIN	FEEDER .	P, 230V n² THHN	MOULDED CASE CIRCUIT BREA	

CKT.						SIZE OF	
NO.	LOAD DESCRIPTION	VOI,TS	VA	AMP.	TA	WRES	CONDUITS
1	LPPA	230	8,680	37.74	70	2-14.0mm ² THHN COPPER WRE 1-6.0mm ² TW GROUND WRE	IN 32mm# PVC PIPE
2	LPPB	230	8,680	37.74	70	2-14.0mm ² THHN COPPER WRE 1-8.0mm ² TW GROUND WRE	IN 32mm# PVC PIPE
3	LPPO	230	8,680	37.74	70	2-14.0mm ² THHN COPPER WIRE 1-8.0mm ² TW GROUND WIRE	IN 32mmst PVC PIPE
4	LPPD	230	8,680	37.74	70	2-14.0mm ² THHN COPPER WRE 1-8.0mm ³ TW GROUND WRE	IN 32mm# PVC PIPE
and a second dama			34,720	150.96			
COMPUTATION	: 50,96 AMP		USE : NAIN FI USE :	EDER :	230V MOU	LDED CASE CIRCUIT BREAKER 22.0mm ^a TW GROUND WIRE	

SCHEDULE OF LOADS 1 SCALE :NTS RECOMMENDING APPROVAL : APPROVED BY : SHEET CONTENT SHEET NO. PROJECT TITLE : DRAWN BY : 9 SUBMITTED BY: SCHEDULE OF LOADS Republika ng Pilipinas PROPOSED UPGRADING OF ELECTRICAL DATE: 12.14.22 Lungsod ng Quezon SYSTEM OF SAN FRANCISCO HIGH EL-05 CHECKED BY: SPA Reputer SCHOOL AT BARANGAY STO.CRISTO 🖌 CITY ENGINEERING DEPARTMENT 06 16 ENGR. LEO S. DEL ROSARIO HEAD , PLANNING & PROGRAMMING DIVISION ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT HON. MA. JOSEFINA G. BELMONTE LOCATION: REVISION NO.: BARANGAY STO.CHISTO, DISTRICT 1, OUEZON CITY

DE	D2022	0426

CKT.						\$IZE OF	E
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	4-LIGHTING FIXTURES 2-ORBIT FAN	230	500	2.18	20	2-3.5mm ² THIN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN 20mm# PVC PIPE
2	4-LIGHTING FIXTURES 2-ORBIT FAN	230	500	Z.18	20	2-3.5mm ³ THHN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN 20mmø PVC PIPE
3	4-LIGHTING FIXTURES 2-ORBIT FAN	230	500	2.18	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE
4	10-LIGHTING FIXTURES	230	500	2.18	20	2-3.5mm ³ THHN COPPER WIRE 1-3.5mm ³ TW GROUND WIRE	IN 20mm# PVC PIPE
5	10-CONVENIENCE OUTLET	230	1,800	7.83	20	2-3.5mm ² THEN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mm# PVC PIPE
6	FACP	230	1,500	6.52	20	2~3.5mm ² THHN COPPER WIRE 1~3.5mm ⁴ TW GROUND WIRE	IN 20mmø PVC PIPE
			5,300	23.05		and and the second s	
5.5.5	PUTATION : 23.05 AMP.		USE MAIN	FEEDER :	P, 230∨ m² THH	MOULDED CASE CIRCUIT BREA	

CKT.						SIZE OF		
NO.	LOAD DESORIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS	
1	LPPA	230	5,300	23.05	60	2-14.0mm ² THHN COPPER WRE 1-8.0mm ² TW GROUND WIRE	IN 32mmø PVC PIF	
2	LPPB	230	3,800	16.52	60	2-14.0mm ² THHN COPPER WRE 1-8.0mm ⁸ TW GROUND WRE	IN 32mm≢ PVC PIP	
3	LPPC	230	3,800	16.52	60	2-14.0mm ² THEN COPPER WRE 1-8.0mm ⁷ TW GROUND WIFE	IN 32mm# PVC PIP	
4	LPPD	230	3,800	18.52	60	2~14.0mm ² THEN COPPER WRE 1-8.0mm ² TW GROUND WRE	IN 32mmø PVC PIP	
5	SPACE	230		_	-			
			16,700	72.61				

USE : 2 - 14mm² THHN & 1-8.0mm² TW GROUND WIRE IN 32mmØ PVC PIPE

CKT.				-		SIZE O	E
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	4-LIGHTING FIXTURES 2-ORBIT FAN	230	500	2.18	20	2-3.5mm ² THIN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN 20mmø PVC PiPI
2	4-LIGHTING FIXTURES 2-ORBIT FAN	230	500	2.18	20	2-3.5mm ³ THEN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN 20mm# PVC PIPI
3	4-LICHTING FIXTURES 2-ORBIT FAN	230	500	2.18	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mm# PVC PIPI
4	10-LIGHTING FIXTURES	230	500	2.18	20	2~3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPI
5	6~CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE
6	4-CONVENIENCE OUTLET	230	720	3.13	20	2~3.5mm ² THN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE
			3,800	16.52			La construction de la construction
	PUTATION :		and the local data and	CURRENT		CTION: MOULDED CASE CIRCUIT BREA	KER

1

	N BUILDING ; Existing)					MOUNTING: NEMA1, S POWDERED COATED I	SURFACE MOUNTED WITH GRAY
CKT.	T					SIZE O	1
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	10-LIGHTING FIXTURES 2-ORBIT FAN	230	800	3.48	20	23.5mm ⁴ THHN COPPER WIRE 13.5mm ⁴ TW GROUND WIRE	IN 20mmø PVC PIPE
2	10-LIGHTING FIXTURES 2-ORBIT FAN	230	800	3.48	20	2~3.5mm ³ THHN COPPER WRE 1~3.5mm ⁴ TW GROUND WRE	IN 20mmø PVC PIPE
3	6-CONVENIENCE OUTLET	230	1,080	4.70	20	23.5mm ¹ THHN COPPER WIRE 13.5mm ¹ TW GROUND WIRE	IN 20mmø PVC PIPE
4	6-CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE
5	1-AIR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm ³ THHN COPPER WRE 5-3.5mm ² TW GROUND WRE	IN 25mm@ PVC PIPE
6	1-AIR CONDITIONING UNIT	230	1,840	8.00	30	2-5.5mm ³ THHN COPPER WIRE 1-3.5mm ³ TW GROUND WIRE	IN 25mm# PVC PIPE
7	1-AR CONDITIONING UNIT	230	1,840	8.00	30	2~5.5mm ⁴ THHN COPPER WIRE 1-3.5mm ³ TW GROUND WIRE	IN 25mmø PVC PIPE
8	1-AR CONDITIONING UNIT	230	1,840	8.00	30	2-3.5mm ³ THHN COPPER WIRE 1-3.5mm ³ TW GROUND WIRE	IN 25mmø PVC PIPE
			11,120	48.35		de en el construction de la constru	
	PUTATION : 48.35 + (0.25 * 8.00) AMP. 50.35 AMP.		USE MAIN	FEEDER : : 2 - 14mn	P, 230V	2 <u>TION:</u> MOULDED CASE CIRCUIT BREA (& 1-8.0mm ² TW GROUND WIRE PIPE / 32mmØ PVC PIPE	Ker

MAIN FEEDER :

SCHEDULE OF LOADS SCALE :NTS DRAWN BY : SA PROJECT TITLE : SUBMITTED BY: RECOMMENDING APPROVAL : SHEET CONTENT APPROVED BY : SHEET NO. Republika ng Pilipinas SCHEDULE OF LOADS PROPOSED UPGRADING OF ELECTRICAL DATE: 12.14.22 Lungsod ng Quezon SYSTEM OF SAN FRANCISCO HIGH EL-06 CHECKED BY: BOR Alle CITY ENGINEERING DEPARTMENT SCHOOL AT BARANGAY STO.CRISTO 🗸 07 16 ENGR. LEO S. DEL ROSARIO HEAD , PLANNING & PROGRAMMING DIVISION ENGR. ISACANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT HON. MA. JOSEFINA G. BELMONTE CITY MAYOR LOCATION: BARANGAY STO.CRISTO, DISTRICT 1, QUEZON CITY REVISION NO .:

DED2022_0426

EVEN Control of the service of the		VE BUILDING : IOUND FLOOR - THIRD FLOOR TYI	PICAL (EXIS	STING)			MOUNTING: NEMA1, 1 POWDERED COATED	Rurface mounted with gray Finish	MOLAVE	BUILDING :				,	MOUNTING: POWDERED	NEMA1, SURFACE MOUNTED WI COATED FINISH	ITH GRAY
							SIZE C		MAIN DISTRIEU	THON PANEL: GROUND FLOOR (PROPOSED	D)						
Image: model with the second with with the second with the second with the second with			+	VA	AMP	+			DIT DIT		Τ				SIZE OF		
Image: 1 Image: 2	1	18-LIGHTING FIXTURES	230	900	3.91	30	1-3.5mm* TW GROUND WIRE		NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WRES	CONDULT	5
2 0 0.001 </td <td>2</td> <td>18-LICHTING FIXTURES</td> <td>230</td> <td>900</td> <td>3.91</td> <td>30</td> <td>1~3.5mm² TW GROUND WIRE</td> <td></td> <td>1</td> <td>LPPA</td> <td>230</td> <td>15,190</td> <td>48.66</td> <td>70</td> <td>2-14.0mm³ INHN COPPER WHE 1-8.0mm¹ TW GROUND WIRE</td> <td>IN 32mm# PV6</td> <td>C PIPE</td>	2	18-LICHTING FIXTURES	230	900	3.91	30	1~3.5mm² TW GROUND WIRE		1	LPPA	230	15,190	48.66	70	2-14.0mm ³ INHN COPPER WHE 1-8.0mm ¹ TW GROUND WIRE	IN 32mm# PV6	C PIPE
Image: Source in the	3		+	1,800	7.83		1-3.5mm* TW GROUND WRE		2	LPPB	230	11,190	48.00	70	2-14.0mm ³ THHN COPPER WRE 1-8.0mm ¹ TW GROUND WRE	IN 32mmø PV	C PIPE
Image: Second	4		+	1,800	7.83	30	1-3.5mm [#] TW GROUND WRE			LPPC	230	11,190	48.66	70	2-14.0mm ² THHN COPPER WRE 1-8.0mm ² TW GROUND WRE	IN 32mm¢ PV	C PIPS
			+	750	3.26		1-3.5mm ² TW GROUND WRE		4	SPARE	230	-	-	30			
1 Understanding (US) 12		14-CONVENIENCE OUTLET	230	2,520	10.96	30	1-3.5mm* TW GROUND WIRE				<u> </u>	33.670	145.05				
	7	14-CONVENIENCE OUTLET	230	2,520	10.96	30		IN 20mm¢ PVC PIPE				33,370	140.00				
				11,190	48.66				COMPUTAT	ION :							
Product Multipued Distance decision Distance decision <thdistance decision<="" th=""> Distance decision</thdistance>				USE MAIN	: 70AT, : FEEDER : 2 - 14m	2P, 230V 	MOULDED CASE CIRCUIT BRE				talout to 400		2 -50.0mm		0mm² TW GROUND WIRE		
No. LODO DESCRIPTION VCUTS VV VV <th< td=""><td></td><td></td><td>EXISTING)</td><td></td><td></td><td></td><td>POWDERED COATED</td><td>WISH</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>TH GRAY</td></th<>			EXISTING)				POWDERED COATED	WISH			1						TH GRAY
1 - Co-demine normers 30 30 1 1 1 0 0 1 0 0 1 0		LOAD DESCRIPTION	VOLTS	VA	AMP	AT		4							SIZE OF		
2 10-400116 (20112) 20 40 1 2 10-400116 (20112) 1 4 1	1	10-LIGHTING FIXTURES	230	500	2.18	20	2-3.5mm ⁴ THHN COPPER WRE 1-3.5mm ⁴ TW GROUND WRE	IN 20mmit PVC PIPE	NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT			and the second
3 10-40mm Knowski 208 50 2 18 00 1-40mm Y Header Will 1 4 1-40mm Y Header Will 1 4	2	10-LICHTING FIXTURES	230	500	2.18	20	2-3.5mm* THHN COPPER WRE 1-3.5mm* TW GROUND WRE	IN 20mmid PVC PEPE	1	LPPA	230	8,600	37.39	70	1-8.0mm ² TW GROUND WIRE		
4 0-00000 NRULE 223 50 248 29 50 2-35-mit the obdited in the obdi	3	10-LICHTING FIXTURES	230	500	2.18	20	23.5mm ⁴ THHN COPPER MRE 13.5mm ⁴ TW GROUND MRE	IN 20mme PVC PIPE	2	LPPB	230	8,600	37.39	70	1-8.0mm ¹ TW GROUND WIRE		
a s-compositions: Unit: 23 4 1917 23 8.00 23.3 70 i-a.smm ⁻¹ trains and tra	4	10-LIGHTING FIXTURES	230	500	2.18	20	1-3.5mm [#] TW GROUND WRE	a construction of the second	3	LPFC	230	8,600	37.39	70		IN 32mm≢ PV	C PIPE
0 9-000 RBMR d0 0012 20 24	5	5-CONVENIENCE OUTLET	230	900	3.92	20	1~3.5mm* TW GROUND WRE		4	LPPD	230	8,600	37,39	70	2-14.0mm ⁴ THHN COPPER WIRE 1-8.0mm ⁴ TW GROUND WIRE	₩ 32mm¢ PV	C PIPE
Image: Construction of the construc	6	5-CONVENIENCE OUTLET	2.30	900	3.92	20	1~3.5mm TW GROUND WRE					34,400	149.57				
8 9conventence content 239 60 332 20 1-35em ft graduation the convention of the conventence of the convention of the convention of the conven	7	5-CONVENIENCE OUTLET	230	900	3.92	20	1-3.5mm TW GROUND WIRE		CONDUTAT	nn ·		AVER 1	NIDDENT DOAT	FC TION			
9 0Gest F.N. 220 1.50 652 20 1.38mit The Count of t	8	5-CONVENIENCE OUTLET	230				1~3.Smirth [#] TW GROUND WIRE								ED CASE CIRCUIT BREAKER		
In O-ORENT FM 2.00 1.00 </td <td>9</td> <td>10-ORBIT FAN</td> <td>2,30</td> <td>1,500</td> <td>6.52</td> <td>20</td> <td>1-3.5mm² TW GROUND WRE</td> <td>and an an an an and a strange on the primers, device functions of</td> <td>= ît</td> <td>149.57 AMP</td> <td></td> <td>MAIN_E</td> <td>EEDER_L</td> <td></td> <td></td> <td></td> <td></td>	9	10-ORBIT FAN	2,30	1,500	6.52	20	1-3.5mm ² TW GROUND WRE	and an an an an and a strange on the primers, device functions of	= ît	149.57 AMP		MAIN_E	EEDER_L				
12 3PAC 230 - </td <td></td> <td></td> <td></td> <td>1,500</td> <td>6.52</td> <td>20</td> <td>13.5mm^{II} TW GROUND WRE</td> <td>IN ZUMMY PYC PEYE</td> <td></td> <td></td> <td></td> <td>USE :</td> <td>2 -50.0mm² IN 40mmô</td> <td>THHN & 1-14.0 MC PIPE</td> <td>0mm* TW GROUND WIRE</td> <td></td> <td></td>				1,500	6.52	20	13.5mm ^{II} TW GROUND WRE	IN ZUMMY PYC PEYE				USE :	2 -50.0mm² IN 40mmô	THHN & 1-14.0 MC PIPE	0mm* TW GROUND WIRE		
Republika ng Pilipinas Lungsod ng Quezon Y ENGINEERING DEPARTMENT PROVED UP GRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH COCATION: DATE: 12/4/22 CHECKED BY: PROVED BY: SHEET CONTENT BCOMMENDING APPROVAL: APPROVED BY: SHEET CONTENT COMPUTATION; UCCATION: DRAWNBY: (A CHECKED BY; (C) CHECKED BY; (C) CONTENT SUBMITTED BY: APPROVED BY: SHEET CONTENT BCHEDULE OF LOADS DATE: 12/4/22 CHECKED BY; (C) CHECKED BY; (C) CHE		SPACE	1				-										
COMPUTATION : Over CURRENT PROJECTION USE : 70x1, 2P, 230V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 14mm ² TH Style 2 - 250V MOULDED CASE CIRCUIT BREAKER USE : 2 - 240V MOULDED CASE CIRCUIT STYLE : SHEET CONTENT SCHEDULE OF LOADS SCHEDULE OF LOADS Republika ng Pilipinas Lungsod ng Quezon Y ENGINEERING DEPARTMENT PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHEDULE OF LOADS DATE : 12.14.22 CHECKED BY: TH CHECKED BY: TH CHECKED BY: TH STYLE : SHEET CONTENT SCHEDULE OF LOADS Y ENGINEERING DEPARTMENT PROJECTION: CHECKED BY: TH STYLE : SHEET CONTENTS DOIL CONTENTS SCHEDULE OF LOADS	12	SPACE	230	-	÷	+						and Contractor Party and					and a second
IT = 37.39 AMP. USE : 70AT, 2P, 230V MOULDED CASE CIRCUIT BREAKER MAIN FEEDER: USE : 2 - 14mm ² THHN & 1-8,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-8,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-8,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-8,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-8,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE SECONDEDIMENTIAL IN A 1-9,0mm ² TW GROUND WIRE IN 25mm ⁰ IMO PIPE / 32mm ⁰ PVC PIPE IMO PIPE / 32mm ⁰ PVC PIPE / 32mm ⁰ PVC PIPE IMO PIPE / 32mm ⁰ PVC PIPE / 32mm ⁰ PVC PIPE IMO				8,600	37.39												
Republika ng Pilipinas Lungsod ng Quezon PROJECT TITLE : DRAWN BY : CA SUBMITTED BY: RECOMMENDING APPROVAL : APPROVED BY : SHEET CONTENT PROJECT TITLE : PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHOOL AT BARANGAY STO.CRISTO DATE : 12.14.22 CHECKED BY: OK DATE : 12.14.22 CHECKED BY: OK DATE : 12.14.22 CHECKED BY: OK SCHEDULE OF LOADS SCHEDULE OF LOADS LOCATION: LOCATION: CHECKED BY: OK ENGR. LED S. DEL ROSARIO HEAD, FLANNING BYINGH ENGR. ISACANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT HON. MA. JOSEFINA G. BELMONTE CITY MAYOR HON. MA. JOSEFINA G. BELMONTE				USE MAIN	: 70AT, 2 FEEDER : : 2 - 14m	P, 230V m² THHN	MOULDED CASE CIRCUIT BREA										
Republika ng Pilipinas Lungsod ng Quezon PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHOOL AT BARANGAY STO.CRISTO DATE: 12.14.22 CHECKED BY: JON DATE: 12.14.22 CHECKED BY: JON DATE: 12.14.22 CHECKED BY: JON BARANGAY STO.CRISTO	.E OF	LOADS		ni diyaat aitaala					inanden en anter en anter en anter en anter						and and a final sector of the sector of t	king (dialarda kinikin faloyanyan papanjan papanjan dan s	
Republika ng Pinpinas PROPOSED UPGRADING OF ELECTRICAL DATE: 12.14.22 Lungsod ng Quezon SYSTEM OF SAN FRANCISCO HIGH DATE: 12.14.22 Y ENGINEERING DEPARTMENT SCHOOL AT BARANGAY STO.CRISTO CHECKED BY: TOR: Location: Location: ENGR. LED S. DEL ROSARIO ENGR. LED S. DEL ROSARIO	and a feature and the second second second			PRO	JECT TH	LE :		DRAWN BY : C	A SUBMITTED	BY:	RECO	MMENDING	APPROVAL		APPROVED BY :		SHEET CONTENT
LOGATION. HEAD, PLANNING & PHOLEBAMMING DIVISION OIC, CITY ENGINEERING DEPARTMENT OITY MATCH	Lu	ngsod ng Quezon	MENT		SYS	TEM C	F SAN FRANCISCO HK		TH.		<		2	enere en			SCHEDULE OF LOADS
						AY STO	CRISTO, DISTRICT 1, QUEZON		HEAD , PL/	R. LED S. DEL ROSARIO							

1

DED2022 0426	
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MOUNTING: NEMA1, SURFACE MOUNTED WITH GRAY POWDERED COATED FINISH

MOUNTING: NEWA1, SURFACE MOUNTED WITH GRAY POWDERED COATED FINISH

CONDUITS

IN 32mm@ PVC PIPE

IN 32mm# PVC PIPE

SHEET CONTENT

HON. MA. JOSEFINA G. BELMONTE CITY MAYOH

SCHEDULE OF LOADS

SCALE :NTS

SHEET NO.

EL-08

09 16

SIZE OF

CONDUITS

IN 32mmø PVC PIPE

IN 32mm∉ PVC PIPE

IN 32mmø PVC PIPE

IN 32mm# PVC PIPE --

SIZE OF

DEDE	D E BUILDING :						SURFACE MOUNTED WITH	GRAY	DEPED E E						MOUN
	OUND FLOOR - FOURTH FLOOR	(EXISTING)				POWDERED COATED	FINISH			BON PANEL: GROUND FLOOR (EXIST	ING)				POWD
CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE C						1	I	1	SIZ
1	8-LIGHTING FIXTURES	230	400	1.74	20	WIRIES 2-3.5mm ² TH-IN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PV	C PIPE	CKT. ND.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WRES
2	8-LIGHTING FIXTURES	230	400	1.74	20	2-3.5mm ² TH4N COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø ₽V	C PIPE	1	LPPA	230	5,240	22.78	63	2-14.0mm ² THHN COPPER WIRE 1-8.0mm ³ TW GROUND WIRE
3	8-LIGHTING FIXTURES	230	400	1.74	20	2-3.5mm ² THHN COPPER WRE 1~3.5mm ² TW GROUND WRE	IN 20mmø PV	C PIPE	2	LPPB	230	5,240	22.78	63	2-14.0mm ² THEN COPPER WRE 1-8.0mm ² TW GROUND WIRE
4	10-LIGHTING FIXTURES	230	500	2.18	20	2-3.5mm ² TH-IN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PV	C PIPE	3	LPPC	230	5,240	22.78	63	2-14.0mm ² THHN COPPER WRE 1-8.0mm ² TW GROUND WRE
5	8-CONVENIENCE OUTLET	230	1,440	6.26	20	2-3.5mm ² TH-IN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PV	C PIPE	4	LPPD	230	5,240	22.78	63	2-14.0mm ² THIN COPPER WRE 1-8.0mm ² TW GROUND WRE
6	5-CONVENIENCE OUTLET	230	900	3.92	20	2-3.5mm [#] THHN COPPER WRE 1-3.5mm [#] TW GROUND WRE	IN 20mmø PV	C PIPE	5	SPACE	230				
7	4-ORBIT FAN	230	600	2.61	20	2-3.5mm ² TH-IN COPPER MRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PV0	D PIPE			230				
8	4-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PV0	C PIPE	6	SPACE					
9	SPACE	230									an Person for the second second second	20,960	91.13		ana wa dafaanaa waxaalaanaa mee aacaana ada waxafa daxaanaa di yaadii faacaana waxaa waxaa daxaa daxaa daxaa w
	J		5,240	22.78		1			COMPUTATION	N :		OVER C	URRENT_PRC	VECTION:	
201	PUTATION :			LR CURREN			Namenia kantenia kalpen ausan aina kita kaliata					24-000-000 M		M. CONTRACTOR	ULDED CASE CIRCUIT BREAKER
17 -	= 22.78 AMP.		MAIN	FEEDER : 2 - 14m		MOULDED CASE CIRCUIT BRE/ & 1-8.0mm ² TW GROUND WIRE PIPE						Main Ei USE :	2 -30.0mm	2 THHN & 1 MC PIPE	1-8.0mm ^a TW GROUND WIRE
	UILDING ;					MOUNTING: NEMA1, S POWDERED COATED F	URFACE MOUNTED WITH	GRAY		HNG :					MQUNY POWDE
CKT.	OUND-SECOND FLOOR TYPICAL (EXISTING)				SIZE OI	F		MAIN DISTRIBUT	ION PANEL: GROUND FLOOR (EXISTI	NG)				
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS		CKT.						SIZE
1	8-LIGHTING FIXTURES	230	400	1.74	20	2-3.5mm ¹ TH4N COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN 20mmø PVC		NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WRES 2-14.0mm ² THHN COPPER WRE
2	8-LIGHTING FIXTURES	230	400	1.74	20	2-3.5mm ² THHN COPPER WRE 1~3.5mm ² TW GROUND WRE	IN 20mmø PVC	PIPE	1	LPPA	230	3,680	16.00	60	1-8.0mm ² TW GROUND WIRE
3	8-LIGHTING FIXTURES	230	400	1.74	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PVC	PIPE	2	LPPB	230	3,680	16.00	60	2-14.0mm ² THIN COPPER WRE 1-8.0mm ² TW GROUND WRE
4	10-LICHTING FIXTURES	230	500	2.18	20	2-3.5mm ² THAN COFPER WRE 3-3.5mm ² TW GROUND WRE	IN 20mmø PVC	PIPE				7,360	32.00		****
5	6-CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm ⁴ THHN COPPER WRE 1-3.5mm ⁸ TW GROUND WRE	IN 20mmø PVC	PIPE	COMPUTATION			OVER CI	IRRENT PRO	TECTION	
6	6-ORBIT FAN	230	900	3.91	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mmø PVC	PIPE				USE :	100AT, 2P,	230V MOL	JLDED CASE CIRCUIT BREAKER
			3,680	16.00					IT = 32	2.00 AMP		MAIN FE			
	PUTATION : 16.00 AMP.		USE	CURRENT 60AT, 21		TION: MOULDED CASE CIRCUIT BREA	KER					USE : :	2 -30.0mm ⁻ IN 32mmØ	* THHN & 1 IMC PIPE	-8.0mm² TW GROUND WIRE
11 =					12 THHN 10 PVC	& 1-8.0mm² TW GROUND WIRE PIPE									
11 =			Distant and			Contraction for furnishing the former of the second state of the second state of the second state of the second		and the second statement of the second s	and the second se	an only served the Wardshard of the serve of a single of the server of the	a na la superior de la segura de	Contraction and Applications of			
estadorius de:	EDULE OF LOA	DS	in Subboo	an da si kana da si ka da si ka s	benerat sina sina	den e se antigen antigen de la gallance de contrade cala a galla subjectiva de calassimo de la gal	annai Shinna Gorgon (na Soro-gorbadar) gabarya						an far ourie alle en	<u>Indonesistys</u> tististations	
	EDULE OF LOA	DS	nia factorican		PROJECT	TIYLE :		DRAWN BY : CHA	SUBMITTED BY		RECOMMENDIN	ig approva	en dessen servenseterter		APPROVED BY :
ana ang	EDULE OF LOA Republika n Lungsod ng CITY ENGINEERI	g Pilipina g Quezon		ENT	PROI	TITLE : POSED UPGRADING OF EL YSTEM OF SAN FRANCISC HOOL AT BARANGAY STO	ECTRICAL	DRAWN BY : CHA DATE : 12.14.82 CHECKED BY : JON							APPROVED BY : HON. MA. JOSEFINA G. BELMC

1

-	D BUILDING : PD : SECOND & FOURTH FLOOR	TYPICAL (PR	OPOSED)			MOUNTING: NEMA1, S PONDERED COATED F	URFACE MOUNTED WITH GRAY INISH
CKT.	LOAD DESCRIPTION	VOLTS	VA	AMP	AŤ	SIZE OF	
NO.		VOLIS	VA	AMP.	AI	WIRES	CONDUITS
1	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN PVC MOULDING
2	6-UGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN PVC MOULDING
3	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THHN COPPER WRE 1~3.5mm ³ TW GROUND WRE	IN PVC MOULDING
4	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN PVC MOULDING
5	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ³ THHN COPPER WRE 1-3.5mm ³ TW GROUND WRE	IN PVC MOULDING
6	8-LIGHTING FIXTURES	230	400	1.74	:20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN PVC MOULDING
7	12-CONVENIENCE OUTLET	230	2,160	9.39	20	2-3.5mm* THHN COPPER WRE 1-3.5mm* TW GROUND WRE	IN 20mmø PVC PIPE
8	8-CONVENIENCE OUTLET	230	1,440	6.26	20	2-3.5mm ² THHN COPPER WRE 1-3.5mm ² TW GROUND WRE	IN 20mm# PVC PIPE
9	SPARE	230	nun		30	a en contra en la contra de la contra en la contra de la contr Contra de la contra de la contr	
10	SPARE	230	_		30		

COMPUTATION :

IT = 26.00 AMP.

SPARE

SPARE

SB OLD BUILDING :

CKT. NO.

1

2

3

4

5

6

7

8

9

10

1

LPPAILPPC : GROUND & THIRD FLOOR TYPICAL (PROPOSED)

VOLTS VA AMP.

230 600 2.61

230 600 2.61

230 300 1.31

230 600 2.61

230 600 2.61

230 400 1.74

230 1,440 6.26

230

230 -

230 _ ----

1,440 6.26

AT

20

20

20

20

20

20

20

20

30

30

LOAD DESCRIPTION

6-LIGHTING FIXTURES

6-LIGHTING FIXTURES

6-LIGHTING FIXTURES

6-LIGHTING FIXTURES

6-LIGHTING FIXTURES

8-LIGHTING FIXTURES

8-CONVENIENCE OUTLET

8-CONVENIENCE OUTLET

2-ORBIT FAN

2-ORBIT FAN

2-ORBIT FAN

2-ORBIT FAN

5,980 26.00 OVER CURRENT PROTECTION: USE : 100AT, 2P, 230V MOULDED CASE CIRCUIT BREAKER MAIN FEEDER :

USE : 2 - 30mm^a THHN & 1-8.0mm^a TW GROUND WIRE

IN 32mmØ IMC PIPE / 40mmØ PVC PIPE

MOUNTING: NEMA1, SURFACE MOUNTED WITH GRAY

CONDUITS

IN PVC MOULDING

IN 20mm# PVC PIPE

IN 20mm# PVC PIPE

-

POWDERED COATED FINISH

WIRES

2-3.5mm¹ THHN COPPER WRE 1-3.5mm¹ TW GROUND WRE

2-3.5mm² THHN COPPER WIRE 1-3.5mm⁴ TW GROUND WIRE

2~3.5mm⁴ THHN COPPER WRE 1-3.5mm⁴ TW GROUND WIRE

2-3.5mm² THHN COPPER WIRE 1-3.5mm⁴ TW GROUND WIRE

2-3.5mm² THHN COPPER WIRE 1-3.5mm³ TW GROUND WIRE

2-3.5mm² THHN COPPER WRE 1-3.5mm⁴ TW GROUND WRE

2~3.5mm³ THHN COPPER WRE 1-3.5mm¹ TW GROUND WRE

2-3.5mm² THHN COPPER WRE 1-3.5mm⁴ TW GROUND WRE

-

SIZE OF

COMPUTATION :

IT = 30.44 AMP.

OVER CURRENT PROTECTION: USE : 100AT, 2P, 230V MOULDED CASE CIRCUIT BREAKER

MAIN FEEDER :

7,000 30.44

USE : 2 - 30mm² THHN & 1-8.0mm² TW GROUND WIRE IN 32mmØ IMC PIPE / 40mmØ PVC PIPE

CKT.						SIZE OF	
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	LPPA	230	5,980	26.00	100	2-30.0mm ¹ THHN COPPER WRE 1-8.0mm ¹ TW GROUND WRE	IN 40mm# PVC PIF
2	LPPB	230	7,000	30.44	100	2-30.0mm ³ THHN COPPER WRE 1-8.0mm ³ TW GROUND WRE	W 40mm# PVC PIF
3	(JPPC	230	5,980	26.00	100	2-30.0mm ¹ THHN COPPER WRE 1-8.0mm ² TW CROUND WRE	IN 40mm# PVC PIF
4	LPPD	230	7,000	30.44	100	2-30.0mm ² THEN COPPER WRE 1-8.0mm ² TW GROUND WRE	IN 40mmø PVC PI
			25,960	112.87			
COMPUTATION	1		OVER C	URRENT PRO	TECTION:		
17 - 11	9.87 ALIO		USE :	200AT, 2P	, 230V MOU	LDED CASE CIRCUIT BREAKER	
11 = 11	2.87 AMP		MAIN FI	EEDER :			

SCHEDULE OF LOADS SCALE :NTS DRAWN BY : CA PROJECT TITLE : SUBMITTED BY: RECOMMENDING APPROVAL : APPROVED BY : SHEET CONTENT SHEET NO. SCHEDULE OF LOADS Republika ng Pilipinas PROPOSED UPGRADING OF ELECTRICAL DATE: 12.14.22 Lungsod ng Quezon SYSTEM OF SAN FRANCISCO HIGH EL-09 CHECKED BY SCHOOL AT BARANGAY STO.CRISTO 🗸 CITY ENGINEERING DEPARTMENT Leun 10 16 ENGR. LEO S. DEL ROSARIO ENGR. ISACANI R. VERZOSA, JR. HON. MA. JOSEFINA G. BELMONTE LOCATION: OIC, CITY ENGINEERING DEPARTMENT CITY MAYOR REVISION NO .: BARANGAY STO.CRISTO, DISTRICT 1, QUEZON CITY

DED2022_0426

CONDUITS IN 40mmid INC PIPE It SOmme MC PIPE IN SOMME INC PIPE IN 40mm# INC PIPE BE SZRANA MC PIPE HI 32mm9 NC PIPE H 32remit AC PIPE

(EL-10) 11 16

	EW BUILDING : PPBA.PPCA.PPD : GROUND-FOLK	TH FLOOR T	YPICAL (F	ROPOSEE)) 	MOUNTIN POWDER	3: NEMA1, SURFACE MOUNTED WITH GRAY D COATED FINISH		EW BUILDING : TRIBUTION PANEL: GROUND FLOOF	(PROPOS	ED)					HOUNTING: NEMAI, SU POWDERED COATED FIN		IED WITH ORMY								
OKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	SIZE OF CONDUITS	CKT.					1	1	[SIZE OF	40 (10 - 10 (- 10 (- 10 (- 10									
1	6-LICHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2.1 Empl TRUN CORDER	WRE IN PVC MOULDING	NO.	LOAD DESCRIPTION	2N	VOL.	is va	ANP.	TÀ	WRES		CON	IDUITS								
2	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ¹ THHN COPPER 1-3.5mm ¹ TW GROUND W	WRE IN PVC MOULDING	1	LPPA		23	0 7,00	30.44	100	230.0mm ^a THHN COPP 18.0mm ^a TW GROUND	er wre Wre	IN 40rhm	IN PVC PIPE								
3	6-LIGHTING FIXTURES 2ORBIT FAN	230	600	2.61	20	n ze l neu comp	WIRE IN PVC MOULINIG	2	ίρόβ		23	0 7,00	0 30.44	100	2-30.0mm ⁵ THHN COPP 1-8.0mm ³ TW GROUND	er imme Wre	IN 40mm	IN PVC PIPE								
4	6-LIGHTING FIXTURES 2ORBIT FAN	230	600	2.61	20	D. T. Cound Think charges	WRE IN PVC MOULDING	3	UPPC		23	0 7,00	0 30.44	100	2-30.0mm ^s THHN COPP	R WRE	IN 40mm	# PVC PIPE								
5	6-LIGHTING FIXTURES 2-ORBIT FAN	230	600	2.61	20	2-3.5mm ⁸ THHN COPPER	WRE IN PVC MOULDING	ļ	LPPD		23			100	1-8.0mm ² TW GROUND 2-30.0mm ² THEN COPPI	R WRE	IN 40mm	PVC PIPE								
ŝ	8-LIGHTING FIXTURES	230	400	1.74	20	2-3.5mm ¹ TW GROUND W 2-3.5mm ¹ THHN COPPER 5-3.5mm ¹ TW GROUND W	WRE IN PVC NOULDING							100	1-8.0mm ³ TW GROUND	ARE										
 7	8-CONVENIENCE OUTLET	230	1,440			2-3.5mm ⁴ THHN COPPER	WRE IN 20mm4 PVC PIPE					28,00	0 121.74													
8	8CONVENIENCE OUTLET	230	1,440	6.26	20	2-3.5mm ⁴ THHN COPPER	WIRE IN 20mm# PVC PIPE	COMPI	UTATION :			OVE	R CUBRENT PR	DIECTION												
9	4-CONVENIENCE OUTLET	230	720	3.13	20	2-3.5mm ⁴ THEN COPPER	WIRE IN 20mm PVC PIPE	17	= 121.74 AMP			US	E : 200AT, 2F	, 230V MOU	LDED CASE CIRCUIT BRE	AKER										
10		230	120			3-3.5mm* TW GHOUND W			G (21.) + Asser				N FEEDER :													
10	SPARE	239			30							US	E : 2 -80.0mm IN 50mm	P THHN & 1- D IMC PIPE	22.0mm² TW GROUND WI	RE .										
			7,000	30.44																						
	IPUTATION :			R CURRE		TECTION OV MOULDED CASE CIRC	UIT BREAKER																			
11 =	= 30.44 AMP		MAI	FEEDER	Li.			KAMAG						MOU	ITING: NEMA1, SURFACE MOUNTED	NITH GRAY										
			USE	: 2 - 30n ∦N 32n	nmª THH ImØ IMC	IN & 1-8.0mm ² TW GROUI C PIPE / 40mmØ PVC PIPI	ID WIRE		SONG BUILDING ; TRIBUTION PANEL: (PROPOSED)					POW	DERED COATED FINISH		IN DISTI	RIBUTION PAN	EL							
							1	CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT		SIZE OF	CKC NO		AD DESCRIPTION	VOLTS V		MPERE LOA	State and the second	AT	[SIZE OF	With American Advantation & State of States
								1	8LIGHTING FIXTURES	230	700			WIRE m ¹ THHN COP m ¹ TW GROUN					230 34,4	10		CA 30		WIRE 2-50.0mm ⁴ THHN CO 1~14.0mm ⁸ TW GROU	APICAL WHEAS	CONDUITS
IMEN	TEL BUILDING :				<u></u>		NEMA1, SURFACE MOUNTED WITH GRAY	2	2-CREIT FAN 8-UGHTING FIXTURES 2-CREIT FAN	230	700		an 2-3.5m	m' DHHN COP	PER WHE IN PVC M	AVLDING 2	\$8 CL	٥	230 25,6	094	11	12.87	200	2-80.0mm* THHM CO	PER WRE	III SQIsm# MC
AIN DIS	STRIBUTION PANEL: (EXISTING)				·····	PURINERED		3	2-ORBIT FAN RLIGHING FIXTURES	230	400		2-3.5m	m ^s TW GROUN m ¹ THHN COP	PER WIRE IN PVC M	3ULDING 4	SE NE		230 28,0		121.74		200	2-50 0mm ³ THHN CO 1-22.6mm ⁸ THHN CO 2-50.6mm ⁸ THH1: CO 1+14.0mm ⁶ TW GROUN	PER WRE ID WRE PER WRE	H 50mm# MC I
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	SIZE OF CONCUTS						1-9,010	m ¹ TW GROUN m ¹ THHN COPI) WIRE	PWC PIPE 5	NAMAG		230 10,0 230 20,9		1-1-	91,13	150	1-14.0 mm ⁴ TW GROUP 2-30.0 mm ⁴ TH GROUP 1-8.0 mm ⁴ TW GROUP	PER NIRE	Bf 32mm4 NC F
1	8-LIGHTING FIXTURES 2-ORBIT FAN	230	700	3.04	20	2-3.5mm ¹ THHN COPPER 1-3.5mm ¹ TW GROUND W	IRE IN PVC MOULDING	4	9-CONVENIENCE OUTLET	230	1,620			m ¹ THHN COP m ¹ TW GROUN		PWC PIPE	PWENT	TEL	230 9,2	20	40.09			2-30.0mm* 11481 COP 1-8.0mm* TH GROUND	PER WRE.	itt 32mm@ MC F
2	8-LIGHTING FIXTURES 2-ORBIT FAN	230	700	3.04	20	2-3.5mm ¹ THHN COPPER 1-3.5mm ¹ TW GROUND WE			9-CONVENENCE OUTLET	230	1,620			m ¹ THHN COP m ¹ TW GROUN			org a	UILDING	230 7,36		32.00		100	2-30.0mm* THEN COP 1-8.0mm* TW GROUND	PER WIRE	Rf 32remit AIC P
3	8-LIGHTING FIXTURES 2-ORBIT FAN	230	700	3.04	20	2-3.5mm ¹ THHN COPPER 1-3.5mm ⁴ TW GROUND WE		6	8Lighting Fixtures 2Creit Fan 8Lighting Fixtures	230	700	3.04		m ⁴ THHN COPI m ³ FW GROUNI m ⁴ THHN COPI					135,9	193.40	193.83 20	14.00				
4	7-LIGHTING FIXTURES	230	350	1.52	20	2-3.5mm ¹ THHN COPPER 1-3.5mm ¹ THHN COPPER 1-3.5mm ¹ TW GROUND WE		7	2CRBIT FAN	230	700	3.04	20 1-3.5mi	m ⁴ TW GROUN	WRE		MPUTATI	ION :			GVI		TPROTECTIC	N IOV MOULDED CAS	E CIRCUIT B	BREAKER
5	8-CONVERIENCE OUTLET	230	1,440	6.26	20	2-3.5mm ⁴ THEN COPPER 1-3.5mm ⁴ THEN COPPER 1-3.5mm ⁴ TW GROUND WE		8	8-UGHTING FIXTURES	230	400	1.74	1~3,5m	m ³ THHN COPI m ¹ TW GROUN	I WIRE			U 204 A 34(0.25 X 8.00)			MAG	IN FEEDER :				
6	8-LIGHTING FIXTURES	230	700	3.04	20	2~3.5mm1 THHN COPPER	IRE IN PVC MOULDING	9	9-CONVENIENCE OUTLET	230	1,620	7.04	20 1-3.5m	m ¹ THHN COPP m ¹ TW GROUND	I WRE	L	► 356.80 /	AMPERES				USE:3-	250.0mm' TH	HN & 1-50.0mm* TW G	Round wire in	N 90mm/0 IMC PIPE
7	2-ORBIT FAN 8-LIGHTING FIXTURES	230	700	3.04	20	1-3.5mm ⁴ TW GROUND WR 2-3.5mm ¹ THHN COPPER	And the second	10	9-CONVENIENCE OUTLET	230	1,620	7.04	20 2-3.5m 1-3.6m	m ¹ THHN COPF m ¹ TW GROUND	PER WHE IN ZOmma	PVC PIPE										
-	2- ORBIT FAN 8-LIGHTING FIXTURES					1-3.5mm* TW GROUND WR	NPVC MORTHWAG				10,080	43.83														
8	2-ORBIT FAN	230	700	3:04	20	1-3.5mm ³ TW GROUND WR 2-3.5mm ¹ THHN COPPER 1		COMP	UTATION :		OVER	CURRENT P	ROTECTION		(1964) (1964)											
9	7-UGHTING FIXTURES	230	350	1.52	20	1-3.5mm ¹ TW GROUND WR 2-3.5mm ¹ THHN COPPER V			43 63 AMP					ED CASE C	RCUIT BREAKER	- Andrewson										
9	6-CONVENIENCE OUTLET	230	1,440	6.26	20	13.5mm ¹ TW GROUND WR						EEDER	1111N & 1.144	have TW CE	OUND WIRE											
10	8-CONVENIENCE OUTLET	2.30	1,440	6.26	20	2-3.5mm ¹ THHN COPPER 1 1-3.5mm ² TW GROUND WR	IRE IN 20mm# PVC PIPE						MC PIPE / 32													
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| MAINTREPORT:
If = 26.91 AMPERES UEE: 3- 30.0mm/ TH-MS 1-8.0mm/ TM-GROUND WIRE IN 40mm/ 9PVC /PPE/32mm/ 3MC /PPE COMPUTATION: UEE: 1004T, 3P, 2307 MOLDED CASE OR CULT BREAKER IN NEMA 1 IF = 1322: 14/39/A MAINTREPORT: DEPED D BUILDING ; DEPED D BUILDING ;

 | Name Opened Driver USE: 100AT, 3P, 330V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 DEPIED D BUILDING : Horizontal Horizontal Horizontal Horizontal Horizontal Building : Horizontal Horizonta

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DDR : 30 6m/t TH+R14 14 6m/t TW GROUAD WIGE R466m/t PH MONITTH+R14 14 6m/t TW GROUAD WIGE R466m/t PH </td><td>INCOMPAYING INC. IN DOWN PRC PRC INCOMPAYING INCOMPANYING INCOMPANYIN</td><td>N (R) IN 20mm PVC PPC N (R) N 20mm PVC PPC E IN 40 mm PVC PPCP22mm0 IMC PPC NS. RefAx, 80/PVC BIO/NTCO WITH GFAY</td><td>B 30xxx9 PK PPE B 30xx9 PK PPE B 30xx9 PK PPE G 30xx9 PK PPE C AKER IN NEMA 1 verd PAC PIPE/22/xmd IMC PIPE KAKER ALL ALL ALL ALL ALL ALL ALL ALL ALL AL</td><td>N Scientel Proc Pare
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MANT, PP, 2300 MICLED CASE CIRCUIT BREAKER
DDR : 30 6m/t TH+R14 14 6m/t TW GROUAD WIGE R466m/t PH MONITTH+R14 14 6m/t TW GROUAD WIGE R466m/t PH </td><td>INCOMPAYING INC. IN DOWN PRC PRC INCOMPAYING INCOMPANYING INCOMPANYIN</td><td>N (R) IN 20mm PVC PPC N (R) N 20mm PVC PPC E IN 40 mm PVC PPCP22mm0 IMC PPC NS. RefAx, 80/PVC BIO/NTCO WITH GFAY</td><td>B 30xxx9 PK PPE B 30xx9 PK PPE B 30xx9 PK PPE G 30xx9 PK PPE C AKER IN NEMA 1 verd PAC PIPE/22/xmd IMC PIPE KAKER ALL ALL ALL ALL ALL ALL ALL ALL ALL AL</td><td>N Scientel Proc Pare
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MANT, PP, 2300 MICLED CASE CIRCUIT BREAKER
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) 1 LEPA 230 6,440 28.00 63 2-14.0mm ² TM ROUND WHE H 32mm ⁴ PM GKT AMPERLOAD 5/22 GF

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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) MATREL (EXISTING) 1 LEPA 230 6,440 28.00 633 2-14.0mm ³ TM GROUN WRE H 32mm# PL CRT
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 | MAIN MAIN DISTRIBUTION PAREL (EXISTING) Marrier Participation Marrie Participation Marrier Participa

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 | 4-COMPANENC GRAFT 2/0 2/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 2/0 3/0 1/0 3/0 3/0 2/0 3/0 1/0 3/0 3/0 1/0 3/0 1/0 3/0 1/0 3/0 3/0 1/0 3/0 1/0 3/0 1/0 1/0 3/0 1/0 1/0 3/0 1/0 <td>Convelvence Out ALT 20 70 3.10 0 90 3.10 0 90 3.25 mml M0 0mm F/C P/C 3.30 10 M0 0mm F/C P/C M0 0mm F/C P/C 3.30 1.00 M 0mm F/C P/C M 0mm F/C P/C M 0mm F/C P/C 3.30 1.00 M 0mm F/C P/C M 0mm F/C M 0mm F/C<td>CT. LOAD DESCRIPTION 0: E-USHTNE FIXARES 2: E-USHTNE FIXARES 3: E-USHTNE FIXARES 4: E-USHTNE FIXARES</td><td>N VOLTS
220
220
230
230</td><td>OLTS VA
220 389
220 389
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230 389</td><td>VA AB
300 1.3
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300 1.2</td><td>AMPER
AB BI
1.31</td><td>NG)
PERE LOAR</td><td>USE 100
MANPEED
USE 3 - 3
USE 3 - 3</td><td></td><td>20 1-34 20 1-34 20 1-34
 20 1-34 20 1-34 21 1-34 22 1-34 23 1-34 24 1-34 25 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 21 1-34 22 1-34 23 1-34 24 1-34 25 1-34</td><td>20 3-1.5.6m/" the COPEN MEC 31. Rever JPC PIN 20 1-5.6m/" the COPEN MEC 31. Rever JPC PIN 20 1-5.6m/" the COPEN MEC 41. Rever JPC PIN 21 1-5.6m/" the COPEN MEC 41. Rever JPC PIN 22 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 23 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 24 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 25 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 26 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 27 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 27 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Stender PIN 27 2-5.5m/" the COPEN MEC 41. Stender PIN PIN 28 2-5.5m/" the COPEN MEC 41. Stender PIN PIN 28 25.5m/" the COPEN MEC 41. Stender PIN PIN 28 25.5m/" the COPEN MEC 41. Stender PIN PIN<!--</td--><td>Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 16 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 2 SECONFUNCING</td><td>ratio 230 ratis 30 construction 30 ratis ratis ratis ratis ratio ratio ratio ratis</td><td>ео
3,570 34.73 1
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5,770 14,75 1
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5,770 14,96 1
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MPERE LOAD
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12.26 14.08</td><td>20 14.00 0-VER DURRENT PROTECTION
USE : 100AT, 3P, 230V MCU
MINFEEDRET. UGE, 3 - 30 Gonf THEVA 14.0 CA 23, 30 14.48 100 14.08</td><td>20 2-30m² 199 (2099) BIE 1-30m² 19 (2090) BIE 1-30m² 19 (2090) BIE RREMT PROTECTION </td><td>Noticity and Proc Proc Not compare and comp</td><td>N BIC IN 30mm8 /PK PPE Mid N 30mm8 /PK PPE IT DREAKER IN NEMA 1 E 8449 rm8 PAC PPE/22mm8 IMC PPE Mid SEZE CF SEZE CF CONDUITS SEZE CF N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE</td><td>B. 30xxx0 PVG PVF N. 30xxx0 PVG PVF N. 30xxx0 PVG PVF R. 30xxx0 PVG PVF R. 30xxx0 PVG PVF AKER IN NEMA 1 vextd PVC PVFC/20xxx0 BAC PVFE SAX_BAR ACE MOUNTED VMFH 66/AY SUZE OF CONDUNTS RE N 30xxvP RO PVFE N1 30xxvP RO PVFE</td><td>N 20end Prof PPE
d. 20end Prof PPE
d. 20end Prof PPE
NEMA 1
NEMA 1
NEWA 1</td><td>Verifies DEPED D BUILDING NO PRE MAIN DISTRIBUTION PANEL: GT VWITH GRAY CX7, LOM DUITS 2 Nor #66 /#RE 3</td><td>vton panel: ground floor (existing)
Load description
Lippa
Lippa
Lippa
Lippc</td><td>N VO</td><td>230
230
239</td><td>5,440
5,440
6,440</td><td>0 28.0
0 28.0</td><td>8.00 63
8.00 63
8.00 63</td><td>63 2-14.0m 1-8.Cmm 1-8.Cmm 93 2-14.0m 1-8.Cmm 1-8.Cmm 63 2-14.0m 1-8.Cmm 1-8.Cmm</td><td> ³ DIHN COPPER WRE
TW GROUND WRE ⁴ THIN COPPER WRE
TW GROUND WRE ⁴ THIN COPPER WRE
TW GROUND WRE </td><td>CON
#1 32mm#
#1 32mm#
#1 32mm#</td></td></td>
 | Convelvence Out ALT 20 70 3.10 0 90 3.10 0 90 3.25 mml M0 0mm F/C P/C 3.30 10 M0 0mm F/C P/C M0 0mm F/C P/C 3.30 1.00 M 0mm F/C P/C M 0mm F/C P/C M 0mm F/C P/C 3.30 1.00 M 0mm F/C P/C M 0mm F/C M 0mm F/C <td>CT. LOAD DESCRIPTION 0: E-USHTNE FIXARES 2: E-USHTNE FIXARES 3: E-USHTNE FIXARES 4: E-USHTNE FIXARES</td> <td>N VOLTS
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300 1.3
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PERE LOAR</td> <td>USE 100
MANPEED
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USE 3 - 3</td> <td></td> <td>20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 21 1-34 22 1-34 23 1-34 24 1-34 25 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 21 1-34 22 1-34 23 1-34 24 1-34 25 1-34</td> <td>20 3-1.5.6m/" the COPEN MEC 31. Rever JPC PIN 20 1-5.6m/" the COPEN MEC 31. Rever JPC PIN 20 1-5.6m/" the COPEN MEC 41. Rever JPC PIN 21 1-5.6m/" the COPEN MEC 41. Rever JPC PIN 22 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 23 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 24 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 25 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 26 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 27 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 27 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Stender PIN 27 2-5.5m/" the COPEN MEC 41. Stender PIN PIN 28 2-5.5m/" the COPEN MEC 41. Stender PIN PIN 28 25.5m/" the COPEN MEC 41. Stender PIN PIN 28 25.5m/" the COPEN MEC 41. Stender PIN PIN<!--</td--><td>Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 16 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 2 SECONFUNCING</td><td>ratio 230 ratis 30 construction 30 ratis ratis ratis ratis ratio ratio ratio ratis</td><td>ео
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5,770 14,96 1
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MAIN FEED
USE 3 - 30
MPERE LOAD
BC CA
11.20 14.38
12.26 14.08</td><td>20 14.00 0-VER DURRENT PROTECTION
USE : 100AT, 3P, 230V MCU
MINFEEDRET. UGE, 3 - 30 Gonf THEVA 14.0 CA 23, 30 14.48 100 14.08</td><td>20 2-30m² 199 (2099) BIE 1-30m² 19 (2090) BIE 1-30m² 19 (2090) BIE RREMT PROTECTION </td><td>Noticity and Proc Proc Not compare and comp</td><td>N BIC IN 30mm8 /PK PPE Mid N 30mm8 /PK PPE IT DREAKER IN NEMA 1 E 8449 rm8 PAC PPE/22mm8 IMC PPE Mid SEZE CF SEZE CF CONDUITS SEZE CF N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE</td><td>B. 30xxx0 PVG PVF N. 30xxx0 PVG PVF N. 30xxx0 PVG PVF R. 30xxx0 PVG PVF R. 30xxx0 PVG PVF AKER IN NEMA 1 vextd PVC PVFC/20xxx0 BAC PVFE SAX_BAR ACE MOUNTED VMFH 66/AY SUZE OF CONDUNTS RE N 30xxvP RO PVFE N1 30xxvP RO PVFE</td><td>N 20end Prof PPE
d. 20end Prof PPE
d. 20end Prof PPE
NEMA 1
NEMA 1
NEWA 1</td><td>Verifies DEPED D BUILDING NO PRE MAIN DISTRIBUTION PANEL: GT VWITH GRAY CX7, LOM DUITS 2 Nor #66 /#RE 3</td><td>vton panel: ground floor (existing)
Load description
Lippa
Lippa
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Lippc</td><td>N VO</td><td>230
230
239</td><td>5,440
5,440
6,440</td><td>0 28.0
0 28.0</td><td>8.00 63
8.00 63
8.00 63</td><td>63 2-14.0m 1-8.Cmm 1-8.Cmm 93 2-14.0m 1-8.Cmm 1-8.Cmm 63 2-14.0m 1-8.Cmm 1-8.Cmm</td><td> ³ DIHN COPPER WRE
TW GROUND WRE ⁴ THIN COPPER WRE
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#1 32mm#
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 | CT. LOAD DESCRIPTION 0: E-USHTNE FIXARES 2: E-USHTNE FIXARES 3: E-USHTNE FIXARES 4: E-USHTNE FIXARES | N VOLTS
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 | 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 21 1-34 22 1-34 23 1-34 24 1-34 25 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 21 1-34 22 1-34 23 1-34 24 1-34 25 1-34

 | 20 3-1.5.6m/" the COPEN MEC 31. Rever JPC PIN 20 1-5.6m/" the COPEN MEC 31. Rever JPC PIN 20 1-5.6m/" the COPEN MEC 41. Rever JPC PIN 21 1-5.6m/" the COPEN MEC 41. Rever JPC PIN 22 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 23 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 24 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 25 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 26 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 27 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 27 2-5.5m/" the COPEN MEC 41. Rever JPC PIN 28 2-5.5m/" the COPEN MEC 41. Stender PIN 27 2-5.5m/" the COPEN MEC 41. Stender PIN PIN 28 2-5.5m/" the COPEN MEC 41. Stender PIN PIN 28 25.5m/" the COPEN MEC 41. Stender PIN PIN 28 25.5m/" the COPEN MEC 41. Stender PIN PIN </td <td>Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 16 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 2 SECONFUNCING</td> <td>ratio 230 ratis 30 construction 30 ratis ratis ratis ratis ratio ratio ratio ratis</td> <td>ео
3,570 34.73 1
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5,770 14,75 1
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11.20 14.38
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USE : 100AT, 3P, 230V MCU
MINFEEDRET. UGE, 3 - 30 Gonf THEVA 14.0 CA 23, 30 14.48 100 14.08</td> <td>20 2-30m² 199 (2099) BIE 1-30m² 19 (2090) BIE 1-30m² 19 (2090) BIE RREMT PROTECTION </td> <td>Noticity and Proc Proc Not compare and comp</td> <td>N BIC IN 30mm8 /PK PPE Mid N 30mm8 /PK PPE IT DREAKER IN NEMA 1 E 8449 rm8 PAC PPE/22mm8 IMC PPE Mid SEZE CF SEZE CF CONDUITS SEZE CF N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE</td> <td>B. 30xxx0 PVG PVF N. 30xxx0 PVG PVF N. 30xxx0 PVG PVF R. 30xxx0 PVG PVF R. 30xxx0 PVG PVF AKER IN NEMA 1 vextd PVC PVFC/20xxx0 BAC PVFE SAX_BAR ACE MOUNTED VMFH 66/AY SUZE OF CONDUNTS RE N 30xxvP RO PVFE N1 30xxvP RO PVFE</td> <td>N 20end Prof PPE
d. 20end Prof PPE
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Load description
Lippa
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Lippc</td> <td>N VO</td> <td>230
230
239</td> <td>5,440
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8.00 63</td> <td>63 2-14.0m 1-8.Cmm 1-8.Cmm 93 2-14.0m 1-8.Cmm 1-8.Cmm 63 2-14.0m 1-8.Cmm 1-8.Cmm</td> <td> ³ DIHN COPPER WRE
TW GROUND WRE ⁴ THIN COPPER WRE
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#1 32mm#
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#1 32mm#</td> | Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 14 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 16 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 17 4 - SPAIT FAUS Inst PVC PVP: 15 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVP: 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 1 4 - SPAIT FAUS Inst PVC PVPC PVPC 2 SECONFUNCING
 | ratio 230 ratis 30 construction 30 ratis ratis ratis ratis ratio ratio ratio ratis

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5,770 14,97 | OVER CUR
USE 100
MAIN FEED
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MPERE LOAD
BC CA
11.20 14.38
12.26 14.08 | 20 14.00 0-VER DURRENT PROTECTION
USE : 100AT, 3P, 230V MCU
MINFEEDRET. UGE, 3 - 30 Gonf THEVA 14.0 CA 23, 30 14.48 100 14.08 | 20 2-30m² 199 (2099) BIE 1-30m² 19 (2090) BIE 1-30m² 19 (2090) BIE RREMT PROTECTION
 | Noticity and Proc Proc Not compare and comp
 | N BIC IN 30mm8 /PK PPE Mid N 30mm8 /PK PPE IT DREAKER IN NEMA 1 E 8449 rm8 PAC PPE/22mm8 IMC PPE Mid SEZE CF SEZE CF CONDUITS SEZE CF N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE Mid N 30mm8 AC 9PE | B. 30xxx0 PVG PVF N. 30xxx0 PVG PVF N. 30xxx0 PVG PVF R. 30xxx0 PVG PVF R. 30xxx0 PVG PVF AKER IN NEMA 1 vextd PVC PVFC/20xxx0 BAC PVFE SAX_BAR ACE MOUNTED VMFH 66/AY SUZE OF CONDUNTS RE N 30xxvP RO PVFE N1 30xxvP RO PVFE | N 20end Prof PPE
d. 20end Prof PPE
d. 20end Prof PPE
NEMA 1
NEMA 1
NEWA 1 | Verifies DEPED D BUILDING NO PRE MAIN DISTRIBUTION PANEL: GT VWITH GRAY CX7, LOM DUITS 2 Nor #66 /#RE 3 | vton panel: ground floor (existing)
Load description
Lippa
Lippa
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 | N VO | 230
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239 | 5,440
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8.00 63 | 63 2-14.0m 1-8.Cmm 1-8.Cmm 93 2-14.0m 1-8.Cmm 1-8.Cmm 63 2-14.0m 1-8.Cmm 1-8.Cmm | ³ DIHN COPPER WRE
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTRIBUTION PANEL (EXISTRIBUTION PANEL) AMPERIANA MAIN Panel Main Main Distribution Panel Main Panel <td>4-CONDUSTIVE OFFIC 220 778 13 90 2-Source Transmission (SPR) (</td> <td>4-COMUNITY PRINT 220 727 3.0 9 2-Same T Registrance PRINT PASSAME PRI</td> <td>4-Convolution Contract 20 720 730 730 730 74</td> <td>T. LOAD DESCRIPTION e-ubrima transm - b-ubrima transma - e-ubrime transma -</td> <td>N VOLTS
220
220
230
230
230</td> <td>OLTS VA
220 360
230 360
230 360
230 360
230 780</td> <td>VA AB
300 1.3
300 1.3
300 1.3
300 1.3
300 200
300 200</td> <td>AMPER
AB B(
1.31
1.31
3</td> <td>NG)
PERE LOAS
BC C
328</td> <td>USE 100
MAN PEEC
USE 3 - 3
LOAD
CA 30
1.31
1.31</td> <td>54
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54</td> <td>80 1-3 90 1-3</td> <td>20 3-1.5.6m/" Tell COPTER INEC. 31. Revery FC FPI 20 1-5.6m/" Tell COPTER INEC. 31. Revery FC FPI 20 1-5.6m/" Tell COPTER INEC. 31. Revery FC FPI 20 1-5.6m/" Tell COPTER INEC. 31. Revery FC FPI 20 2-5.5m/" Tell COPTER INEC. 31. Revery FC FPI 20 2-5.5m/" Tell COPTER INEC. 31. Revery FC FPI 20 2-5.5m/" Tell COPTER INEC. 31. Revery FC FPI 20 2-5.5m/" Tell COPTER INEC. 31. Revery FC FPI 20 2-5.5m/" Tell COPTER IN REVERTING INCOMPTONIC INC</td> <td>Inst PPC PPC 14 4-SRIT rules Inst PPC PPC 14 4-SRIT rules Inst PPC PPC 15 4-SRIT rules Inst PPC PPC 16 4-SRIT rules Inst PPC PPC Inst PPC PPC 1 Inst PPC PPC 1 MORS/P FLOOR Inst PPC PPC 1 SECON/ FLOOR</td> <td>ratio 230 ratis ratis ratio 230 ratio ratio ratio ratio ratio ratio ratio ratio ratio ratio</td> <td>00 </td> <td>OVER CUR
USE: 100
MAIN FEED
USE: 3 - 30
MPERE LOAD
BC CA
11.20 14.38
12.30 14.00
14.82 3.36</td> <td>20 14.00 USE: 100AT, 3P, 230V MCk USE: 100AT, 3P, 230V MCk MWH/FEDDR: USE: 3-30 9M/T TH/HY A 14.0 LOAD CA 30 14.48 100 14.49 100 14.49 100</td> <td>20 2-30m² 1940 COMVER BIE 2-30m² 1940 COMVER BIE </td> <td>INIT CONTROL INTO INIT CONTROL INTO INIT CONTRO INTO INIT CONTRO INTO INIT CONTRO INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTRE INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTRE INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTROL INTO INIT CONTR INTO INIT CONTROL INTO</td> <td>IN BIC IN Some Prop Proc Mile N Some Proc Prop Proc Mile EM4 Own Proc Prop Prop Proc Mile SAZEC OF RES CONDUITS Prop Res IN Some AC Prof Mile N Some AC Prof</td> <td>B. 30xxx0 PVG PVE B. 30xx00 PVG PVE B. 30xx00 PVG PVE G. 30xx00 PVG PVE VAKER IN NEMA 1 vend PvC PIPE/22xmd IMC PIPE SAZE ENGANTED VITH GRAY SEZE OF CONDUITS RE PI 32xx07 RG PVE RE PI 32xx07 RG PVE</td> <td>N 20mm8 Pile Pile
R 20mm8 Pile Pile
NEMA 1
NEMA 1</td> <td>Image: Processing of Procesing of Processing of Processing of Processing of P</td> <td>vton paiele ground floor (Edisting)
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Lippa</td> <td>N VO</td> <td>230
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5,440
6,440
5,440</td> <td>0 28.0
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0 28.0
0 28.0</td> <td>8.00 63
8.00 63
8.00 63</td> <td>63 2-14.0m 1-8.Cmm 1-8.Cmm 93 2-14.0m 1-8.Cmm 1-8.Cmm 63 2-14.0m 1-8.Cmm 1-8.Cmm</td> <td> THIN COPPER WRE
TW GROUND WRE </td> <td>60N
 4 32mm#
 4 32mm#
 4 32mm#
 4 32mm#</td>
 | 4-CONDUSTIVE OFFIC 220 778 13 90 2-Source Transmission (SPR) (

 | 4-COMUNITY PRINT 220 727 3.0 9 2-Same T Registrance PRINT PASSAME PRI

 | 4-Convolution Contract 20 720 730 730 730 74

 | T. LOAD DESCRIPTION e-ubrima transm - b-ubrima transma - e-ubrime transma - | N VOLTS
220
220
230
230
230 | OLTS VA
220 360
230 360
230 360
230 360
230 780 | VA AB
300 1.3
300 1.3
300 1.3
300 1.3
300 200
300 200 | AMPER
AB B(
1.31
1.31
3 | NG)
PERE LOAS
BC C
328
 | USE 100
MAN PEEC
USE 3 - 3
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Pref. I. Scientel Prof. Pref. I. Scientel Prof. Pref. I. Scientel Prof. Pref. II. Scientel Prof. Pref. | Increase DEPED D BUILDING : MCPPE MAIN DISTREPTION PAILL OF WITH GRAT RO. DUITS 2 Inverse Ro-RME 3 Inverse Ro-RME 4 Inverse Ro-RME 5 Inverse Ro-RME 6 | uton Panel: ground floor (existing)
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NEMA 1
NEMA 1
NEWA 1 | VET PRE DEPED D BUILDING ; NO PRE MAIN DISTRIBUTION PANEL: GT VWTH GRAY CX7, LOM DUITS Q Nor R6 APRC 3 Nor R6 APRC 4 Nor R6 APRC 5 Nor R6 APRC 6 Nor R6 APRC 6 | VTION PAILEL: GROUND PLOOR (EDISTING
LOAD DESCRIPTION
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230 | 5,443
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128.0
0 112.00
 | 8.00 63
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 | 83 2-14 Gm 9.3 1-4 Cm 8.3 1-4 Cm 8.4 1-8 Cm | THIN COPPER WRE
TW GROUND WRE | CON
14 32mm#
14 32mm#
14 32mm#
14 32mm# | |
| 16-base in provinge 100 12-base in provinge 10-base in provinge 1

 | MAIN MAIN DISTRIBUTION PAREL (EXISTRIB) MATERIAL CARD DESCRIPTION Vol. 15 AMERICAN MAIN SIGNAL

 |

 | USE : 160A1, 2P, 230V MOULDED CASE CIRCUIT BREAKER

 |

 | T. LOAD DESCRIPTION 6-Uerrine travels 6-Uerrine travels 8-Uerrine travels 6-Uerrine travels 6-Uerrine travels 6-Uerrine travels 6-Oerrine travels 6-UErrine travels | V VOLTS
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230 | OL.TS VA 220 300 220 302 230 302 230 302 230 302 230 789 230 789 230 789 230 789 230 789 230 789 230 600 230 600 | VA A
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 | 1
NG)
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313
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NANIFEE
UEE 3 - 3
LOAD
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1.31
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1.31
1.31
1.31
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1. | 30
CR CURRENT PR
E 100AT, 3P,
NFEEDOR :
E 3-00.0mol TI
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1
 | 80 P-1
20 P-1
20 20 P-14 20 20 P-14 20 20 P-14 20 20 P-14 20
 20 P-14 14 20 P-14 14 20 P-14 14 Stress P-16 20 10 P-16 20 11 P-16 20 12 P-16 20 14 P-16 20 15 P-16 20 16 P-16 20 17 P-16 20 18 P-16 20 19 P-36 20 10 P-16 20 10 P-36 20
 | 20 8-Jahom" Teles COPTER WRITE
1-Jahom" Teles COPTER WRITE
20 8-Jahom" Teles
 | Inst PriC Pric 14 4 - SRIFT ANS Inst PriC Pric 14 4 - SRIFT ANS Inst PriC Pric 15 4 - SRIFT ANS Inst PriC Pric 16 4 - SRIFT ANS Inst Pric Pric 17 4 - SRIFT ANS Inst Pric Pric 18 B Pric Pric Inst Pric Pric 18 B Pric Pric Inst Pric Pric 19 MAIN MAIN DISTRIBUTIO Inst Pric Pric Pric 10 B Pric Pric Inst Pric Pric Pric 10 B Pric Pric Inst Pric Pric 10 B Pric Pric Inst Pric Pric 10 B Pric Pric Inst Pric Pric 10 B Pric Pric

 | Train 230 ravis 230 cN1 330 thrappenetric 330 cN1 14/3104 bisPort/Pies s TRIBUTION PANEL (EXIS biscon 230 scon 230 ge 230
 | 000
 | OVER CLR
USE : 100
MMH FEED
USE : 3 - 30
MPERE LOAD
ED: CA
1230 14:91
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14:22 4:35
14:22 4:35
14:22 4:35
14:22 4:35
14:22 4:35 | 20 14.05 0-VER DURRENT PROFECTION
USE 100AT, 3P, 230V MCL
WAINFEEDER
USE 3-20 Gen/ TH/NA 14.0 LOAD CA 30 AT 14.38 1004 14.39 100 14.39 100 14.39 100 14.39 100 14.39 100 14.39 100 14.39 100 14.2 20 21 22 30 23 | 20 2-3.0m/* 1994 (2019) BIE 2-3.0m/* 1994 (2019) BIE | No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)
 | B BIC III Shme PVP PVE M Schward PVC PVE M Schward PVC PVE ME M Schward PVC PVE/PVE/PVC SCEZ CF CONDUITS SCEZ CF CONDUITS ME M Schward PVC PVE/PVE/PVC SCEZ CF CONDUITS SCEZ CF Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE<
 | III 20xxxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE AAKER IN NEMA 1 AND PVC PVE/22xxxx0 IAC PVE AAX SUPE ACE INOUNTED WITH GRAY AXED FINAN SUEZ CIF CONDUCTS RE IX 20xxxx SUEZ CIF CONDUCTS RE IX 20xxxx PVC PVE/22xxxx0 IAC PVE RE IX SUEZ CIF CONDUCTS RE IX SUE CIF CONDUCTS RE IX SUE CIF C C IX SUEARS RE IX SU | N 20end Prof PPE
d. 20end Prof PPE
d. 20end Prof PPE
NEMA 1
NEMA 1
NEWA 1 | VET PRE DEPED D BUILDING ; NO PRE MAIN DISTRIBUTION PANEL: GT VWTH GRAY CX7, LOM DUITS Q Nor R6 APRC 3 Nor R6 APRC 4 Nor R6 APRC 5 Nor R6 APRC 6 Nor R6 APRC 6 | VTION PAILEL: GROUND PLOOR (EDISTING
LOAD DESCRIPTION
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1-3.Crar
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8-3 1-4.Crar
8-4 1-4.Crar
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| 16-1-2-0-0-1 16-2-0-0-0-1 16-2-0-0-1 16-2-0-0-

 | MAIN MAIN DISTRIBUTION PAREL (EXISTRIG) Material and the second sec

 | PONDUTATION .
 | COMPUTATION : OVER CURRENT PLOTECTON

 | OVER CORRENT PROTECTION OVER CORRENT PROTECTION

 | T. LOAD DESCRIPTION 6-Uerrine travels 6-Uerrine travels 8-Uerrine travels 6-Uerrine travels 6-Uerrine travels 6-Uerrine travels 6-Oerrine travels 6-UErrine travels | V VOLTS
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780 5 | AMPER
AB
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PERE LOAD
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320 | USE 100
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LOAD
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 | 80 P-1
20 P-1
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 | 20 8-Jamp" Tele COPTE WEE 31 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 21 3-Jamp" Tele COPTE WEE 41 Revery PC P1 22 2-Jamp" Tele COPTE WEE 41 Revery PC P1 23 2-Jamp" Tele COPTE WEE 41 Revery PC P1 24 3-Jamp" Tele COPTE WEE 41 Revery PC P1 25 3-Samp" Tele ROOTE WEE 41 Revery PC P1 26 3-Samp" Tele ROOTE WEE 41 Revery PC P1 27 3-Samp" Tele ROOTE WEE 41 Revery P1 28 3-Samp" Tele R
 | Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 15 4 - SPRIT FAUS Inst Pric Pric 16 4 - SPRIT FAUS Inst Pric Pric 18 4 - SPRIT FAUS Inst Pric Pric 18 9 - SC Inst Pric Pric 1 GRAVE Inst Pric Pric 1 GRAVE TALORI Inst Pric Pric 1 GRAVE TALORI Inst Pric Pric 1 GRAVE TALORI Inst Pric Pric 1 GRAVE TALORIT Inst Pric Pric 1 GRAVE TALORIT Inst Pric Pric 1 GRAVE TALORIT Inst Pric Pric 1 GRAVE TALOR Inst Pric Pric 1 GRAVE TALOR Inst

 | rate 120 rate 220 rate 230 rate 230 rate 230 rate 230 rate 230 rate 230 con 230 ge 230
 | 000
 | APERE LOAD
SC 400
SC 400 | 20 14.00 0-VER DURATS IP PICTECTION USE: 100AFLS IP 230V MOL USE: 100AFLS IP 230V MOL MAN FEEDER: UGE: 3-30 Genf TH+N A 14.0 14.30 CA 30 AV 14.40 16.40 4.50 4.50 16.40 100 4.50 4.52 30 4.52 30 4.52 30 58.60 | 20 2-3.0m/* 1994 (2019) BIE 2-3.0m/* 1994 (2019) BIE | No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)
 | B BIC III Shme PVP PVE M Schward PVC PVE M Schward PVC PVE ME M Schward PVC PVE/PVE/PVC SCEZ CF CONDUITS SCEZ CF CONDUITS ME M Schward PVC PVE/PVE/PVC SCEZ CF CONDUITS SCEZ CF Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE/PVE Schward RC - PVE<
 | III 20xxxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE AAKER IN NEMA 1 AND PVC PVE/22xxxx0 IAC PVE AAX SUPE ACE INOUNTED WITH GRAY AXED FINAN SUEZ CIF CONDUCTS RE IX 20xxxx SUEZ CIF CONDUCTS RE IX 20xxxx PVC PVE/22xxxx0 IAC PVE RE IX SUEZ CIF CONDUCTS RE IX SUE CIF CONDUCTS RE IX SUE CIF C C IX SUEARS RE IX SU | N 20end Prof PPE
d. 20end Prof PPE
d. 20end Prof PPE
NEMA 1
NEMA 1
NEWA 1 | Inc. Page DEPED D BUILDING ; MC Page MAIN DISTRIBUTION PANEL: GI WITH GRAY IC. DUITS: CKY. DUITS: C Invit MC Page 3 Invit MC Page 3 Invit MC Page 4 Invit MC Page 5 Invit MC Page 6 Invit MC Page 6 Invit MC Page COMPUTATION : | VTON PAILE: GROUND FLOOR (ESISTING
LOAD DESCRIPTION
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8.00 63
 | 2-14 Gm
1-3.Crar
8-3 1-4.Crar
8-3 1-4.Crar
8-4 1-4.Crar
8-5 1-4.Cra | ⁴ Тинк Сорчек иле
ти сясиона ине
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14 32mm#
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14 32mm# | |
| 13-1-10000 13-20000 13-20000 13-20000 13-20000 13-20000 14-20000 14-20000 14-200000 14-200000 14-200000 14-2000000 14-200000 14-2000000 14-2000000 14-2000000 14-20000000 14-2000000000000000000000000000000000000

 | MAIN MAIN DISTRIBUTION PAREL (EXISTING) MAREE LOAD SUZZ OF MOX LOAD DESCRIPTION VOL 15 MAREE LOAD SUZZ OF 1 LOAD DESCRIPTION VOL 15 MAREE LOAD SUZZ OF 1 GROW LOAD DESCRIPTION VOL 15 MAREE LOAD SUZZ OF 2 SUZM FLAGE 328 Add BS CONTRATING/CONTRATING OFFER WELL NUMEE SUZM FLAGE 2 SUZM FLAGE 238 Add BS CONTRATING/CONTRATING OFFER WELL NUMEE SUZM FLAGE 3 HEEP FLAGE 238 Add BS CONTRATING/CONTRATING OFFER WELL NUMEE SUZM FLAGE 3 HEEP FLAGE 238 Add BS CONTRATING/CONTRATING OFFER WELL NUMEE NUME SUZM FLAGE 4 FORMITI IN CONTRATING 238 Add BS CONTRATING OFFER WELL NUMEE NUME NUME 4 FORMITI IN CONTRATING OFFER WELL NUMEE NUME NUME NUME NUME NUME 5 RECOMPTIONE SUZM FLAGE NUME NUME </td <td>7.230 8.80 14.22 8.30 COMPUTATION : Over current Frotestron
USE : 300AT, 3P, 2300 MOULDED CASE CIRCUIT BREAKER IT = 112.00 AMP</td> <td>USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER</td> <td>USE : 300AT, 3/P, 230V MOULDED CASE CIRCUIT BREAKER</td> <td>T. LOAD DESCRIPTION 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 10-Uerrise travers 10-Uerrise travers 10-Uerrise travers 10-Uerrise travers 10-Uerrise travers 4-OWNENDE OFLET 4-OWNENDE OFLET 4-OWNENDE OFLET 4-OWNENDE OFLET</td> <td>V VOLTS
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230</td> <td>OL.TS VA 220 309 230 309 230 309 230 309 230 309 230 780 230 780 230 780 230 780 230 780 230 780 230 680 220 600 230 1,600</td> <td>VA AB
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300 1.2
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300 5.2
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780 5</td> <td>AMPER
AB 29
1.31
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N(3)
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5</td> <td>USE 10X
MANFEE
UE 3 - 3
LOAD
CA 30
</td> <td>30 1 FR CURRENT PRESINT FE 10047, 3P, 1 11047, 3P, 1 <td>40 2-3
(2) 3-3
(2) 2-3
(2) 3-3
(2) 3-3</td><td>20 8-Jahom" Teles COPTER WRITE
1-Jahom" Teles COPTER WRITE
20 8-Jahom" Teles COPTER WRITE
20 9-Jahom" Teles</td><td>Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 15 4 - SPEIT FAUS If 2 4 - SPEIT FAUS 17 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 3 - SPEIT FAUS 18 If 3 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 3 - SPEIT FAUS 18 If 7 - SPEIT FAUS 17 If 7 - SPEIT FAUS 17 If 7 - SPEIT FAUS 17 If 7 - SE SPEIT FAUS 18</td><td>TA16 230 rA15 233 rA16 230 rA16 330 rA17 330 rA17 330 rA17 330 rA11 rA17 rA16 230 rA16 230 rA16 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA18 230 rA19 230 rA11 230 rA11 230 rA11 230 rA19 230 rA10 230 rA11 230 rA11 230 rA11</td><td>000 </td><td>OVER CLR
USE 100
MMH FED
USE 3 - 30
MPERE LOAD
BC CA
USB 14-39
12-35 14-09
14-52 8-36
14-22 8-36
4-32
4-32
4-32
4-32
0-51 5-60
0-VER CLR</td><td>20 14.00 USE: 100AT, 3P, 230V MCL UUE: 100AT, 3P, 230V MCL MWH/FEEDDR: UUE: 3: 20 den/ TH+NA 14.8 LOAD 14.40 100 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 100 4.31 20 4.52 30 4.52 30 56.40 0VER CURRENT PHOTECTOR</td><td>20 2-3-0-m² (W) CONVER BINE 2-3-0-m² (W) CONVER BINE 2-3-0-m² (W) CONVER BINE ARRENT PROTECTIONS AGRICAL TO BE AND TO BE AND</td><td>Biology Bit It Some Pric Pre: Biology Bit 4 Some Pric Pre: Biology Bit </td><td>N BIC IN 20mm / Vic PIPC MIX M 20mm / Vic PIPC</td><td>B. 30xxx8 PMC PME N. 30xxx8 PMC PME N. 30xxx8 PMC PME A. 30xxx8 PMC PME A.S. 20xxx8 PMC PME AAKER IN NEMA 1 HMID PMC PIPE/2011m00 IAC PIPE AAKER IN NEMA 1 HMID PMC PIPE/2011m00 IAC PIPE SIZE OF CONDUITS RE H. 30xxx8 RG PME BI 30xxx8 RG PME RE H. 30xxx8 RG PME</td><td>N 20end Prof PPE
8. 20end Prof PPE
9. 20end Prof PPE
NEMA 1
DPPU22tmm8 IMC PPE
4. 20end RG PPE
91. 30end RG PPE
91. 30end RG PPE
91. 25end RG PPE</td><td>Inc. Page DEPED D BUILDING ; MC Page MAIN DISTRIBUTION PANEL: GI WITH GRAY IC. DUITS: CKY. DUITS: C Invit MC Page 3 Invit MC Page 3 Invit MC Page 4 Invit MC Page 5
Invit MC Page 6 Invit MC Page 6 Invit MC Page COMPUTATION :</td><td>VTON PAILE: GROUND FLOOR (ESISTING
LOAD DESCRIPTION
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2</td><td>230
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USE</td><td>0 28.0
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112.00</td><td>8.00 63
8.00 63
8.00 63
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8.00 63
</td><td>2-14 Gm
1-3.Crar
8-3 1-4.Crar
8-3 1-4.Crar
8-4 1-4.Crar
8-5 1-4.Cra</td><td>⁴ Тинк Сорчек иле
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14 32mm#
14 32mm#
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14 32mm#</td></td> | 7.230 8.80 14.22 8.30 COMPUTATION : Over current Frotestron
USE : 300AT, 3P, 2300 MOULDED CASE CIRCUIT BREAKER IT = 112.00 AMP

 | USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER

 | USE : 300AT, 3/P, 230V MOULDED CASE CIRCUIT BREAKER

 | T. LOAD DESCRIPTION 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 6-Uerrise travers 10-Uerrise travers 10-Uerrise travers 10-Uerrise travers 10-Uerrise travers 10-Uerrise travers 4-OWNENDE OFLET 4-OWNENDE OFLET | V VOLTS
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230 | OL.TS VA 220 309 230 309 230 309 230 309 230 309 230 780 230 780 230 780 230 780 230 780 230 780 230 680 220 600 230 1,600 | VA AB
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300 1.2
300 5.2
300 5.2
780 5 | AMPER
AB 29
1.31
1.31
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N(3)
PERE LOAD
BC (
)
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313
328
313
228
521
4422
5 | USE 10X
MANFEE
UE 3 - 3
LOAD
CA 30
 | 30 1 FR CURRENT PRESINT FE 10047, 3P, 1 11047, 3P, 1 <td>40 2-3
(2) 3-3
(2) 2-3
(2) 3-3
(2) 3-3</td> <td>20 8-Jahom" Teles COPTER WRITE
1-Jahom" Teles COPTER WRITE
20 8-Jahom" Teles COPTER WRITE
20 9-Jahom" Teles</td> <td>Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 15 4 - SPEIT FAUS If 2 4 - SPEIT FAUS 17 If 3 4 - SPEIT
FAUS 18 If 4 - SPEIT FAUS 18 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 3 - SPEIT FAUS 18 If 3 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 3 - SPEIT FAUS 18 If 7 - SPEIT FAUS 17 If 7 - SPEIT FAUS 17 If 7 - SPEIT FAUS 17 If 7 - SE SPEIT FAUS 18</td> <td>TA16 230 rA15 233 rA16 230 rA16 330 rA17 330 rA17 330 rA17 330 rA11 rA17 rA16 230 rA16 230 rA16 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA18 230 rA19 230 rA11 230 rA11 230 rA11 230 rA19 230 rA10 230 rA11 230 rA11 230 rA11</td> <td>000 </td> <td>OVER CLR
USE 100
MMH FED
USE 3 - 30
MPERE LOAD
BC CA
USB 14-39
12-35 14-09
14-52 8-36
14-22 8-36
4-32
4-32
4-32
4-32
0-51 5-60
0-VER CLR</td> <td>20 14.00 USE: 100AT, 3P, 230V MCL UUE: 100AT, 3P, 230V MCL MWH/FEEDDR: UUE: 3: 20 den/ TH+NA 14.8 LOAD 14.40 100 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 14.40 100 4.31 20 4.52 30 4.52 30 56.40 0VER CURRENT PHOTECTOR</td> <td>20 2-3-0-m² (W) CONVER BINE 2-3-0-m² (W) CONVER BINE 2-3-0-m² (W) CONVER BINE ARRENT PROTECTIONS AGRICAL TO BE AND TO BE AND</td> <td>Biology Bit It Some Pric Pre: Biology Bit 4 Some Pric Pre: Biology Bit </td> <td>N BIC IN 20mm / Vic PIPC MIX M 20mm / Vic PIPC</td> <td>B. 30xxx8 PMC PME N. 30xxx8 PMC PME N. 30xxx8 PMC PME A. 30xxx8 PMC PME A.S. 20xxx8 PMC PME AAKER IN NEMA 1 HMID PMC PIPE/2011m00 IAC PIPE AAKER IN NEMA 1 HMID PMC PIPE/2011m00 IAC PIPE SIZE OF CONDUITS RE H. 30xxx8 RG PME BI 30xxx8 RG PME RE H. 30xxx8 RG PME</td> <td>N 20end Prof PPE
8. 20end Prof PPE
9. 20end Prof PPE
NEMA 1
DPPU22tmm8 IMC PPE
4. 20end RG PPE
91. 30end RG PPE
91. 30end RG PPE
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20 8-Jahom" Teles COPTER WRITE
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| 10 10 <th< td=""><td>MAIN MAIN DISTRIBUTION PAREL (EXISTING) MAREE LOAD MAREE</td><td>7.230 8.81 14.82 5.31 COMPUTATION : Over current reportscrow USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IT = 112,00 AMP COMPUTATION : Over current reportscrow USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IT = 112,00 AMP Main FEDER : COMPUTATION : Over current reportscrow USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER III = 112,00 AMP Main FEDER :</td><td>DAME USE State USE State USE State OMPUTATION : Over current information USE : 2007, 3P, 2007 MOULDED CASE CIRCUIT BREAKER USE : 2007, 3P, 2007 MOULDED CASE CIRCUIT BREAKER USE : 2007, 3P, 2007 MOULDED CASE CIRCUIT BREAKER IN ARIA 1 IT = 172 X [1 M 86 A)+(0.23 X 4 00] MAIN FEEDER:</td><td>7.300 AM VEX.02 AM VEX.02 AM 0/MPUTATION: Over current/minifection USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER MAIN FEEDER.1 0/MPUTATION: USE : 72AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IN NEMA 1 IT = 1.72 X [III M 8L A)+(0.23 X 400] MAIN FEEDER.1 USE : 72AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IN NEMA 1 IT = 1.72 X [III M 8L A)+(0.23 X 400] MAIN FEEDER.1</td><td>T. LOAD DESCRIPTION 6-Learning travelage 6-Learning travelage 6-Learning travelage 6-Learning travelage 6-Learning travelage 6-Learning travelage 6-Learning travelage 6-Learning travelage 10-Learning travelage 6-Learning travelage 6-Learning travelage 6-Learning travelage 6-Conversition on their 6-Conversition on their 6-Conversition on their 6-Conversition on their</td><td>V VOLTS
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 | 7.300 AM VEX.02 AM VEX.02 AM 0/MPUTATION: Over current/minifection USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER MAIN FEEDER.1 0/MPUTATION: USE : 72AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IN NEMA 1 IT = 1.72 X [III M 8L A)+(0.23 X 400] MAIN FEEDER.1 USE : 72AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IN NEMA 1 IT = 1.72 X [III M 8L A)+(0.23 X 400] MAIN FEEDER.1

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 | MAIN MAIN DISTRIBUTION PAREL (EXISTING) MAREA MAREA MAREA SZEC 0F 1 LEPA 230 6.40 28.00 63 214.0mm ² TW GOUND WRE N 30mm# PV 1 400.00 Strate 1.000 DESCRETION Vol.15 VA MAREA 1.000 DESCRETION Vol.15 VA MAREA NUMES CONDUITS Val.15 Val.15 <td>7.200 8.80 14.22 8.80 14.22 8.80 14.22 8.80 14.22 8.80 112.00 AMP COMPUTATION: Over current reportscrony
USE : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP If 112.00 AMP COMPUTATION: Over current reportscrony
USE : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP IMAN FEEDER: T ISB : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP IMAN FEEDER:</td> <td>Image: Construction of the second of the</td> <td>Image: Note of the system Image: Note of the system MANU PETER : Over of the system Image: Note of the system Image: Note of the system Image: Note of the system MANU PETER : Over of the system Image: Note of the system Image: Note of the system Image: Note of the system MANU PETER : Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system Image: Note of the system <td>T. LOAD DESCRIPTION 6-Uetrins travels 6-Uetrins travels 8-Uetrins travels 6-Uetrins travels 9-Uetrins travels 6-Uetrins travels 9-Uetrins travels 6-Uetrins travels 9-Uetrins travels 6-Uetrins travels 19-Uetrins travels 6-Uetrins travels 4-Oenvelands on Let 4-Oenvelands on Let 2 4-Oenvelands on Let 4-Oenvelands on Let 4-Oenvelands on Let 4-Oenvelands on Let</td><td>V VOLTS
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WEL 15 Density TC PTI</td><td>Inst PRC PRE 14 4 - SPEIT FAUS Inst PRC PRE 14 4 - SPEIT FAUS Inst PRC PRE 15 4 - SPEIT FAUS Inst PRC PRE 16 4 - SPEIT FAUS Inst PRC PRE 18 4 - SPEIT FAUS Inst PRC PRE 1 GRADUE Inst PRC PRE 1 GRADUE TRIBUTION In</td><td>Train 230 ravis 230 construction 230 ravis 330 construction 300 ravis ravis ravis ravis construction 230 ravis ravis ravis<td>000 </td><td>OVER CLR
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USE : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP If 112.00 AMP COMPUTATION: Over current reportscrony
USE : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP IMAN FEEDER: T ISB : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP IMAN FEEDER:

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 | 20 8-Jamp" Tele COPPE WEL 14 Density TC PTI 20 1-Jamp" Tele COPPE WEL 14 Density TC PTI 20 1-Jamp" Tele COPPE WEL 14 Density TC PTI 21 1-Jamp" Tele COPPE WEL 14 Density TC PTI 22 2-Jamp" Tele COPPE WEL 14 Density TC PTI 23 2-Jamp" Tele COPPE WEL 14 Density TC PTI 24 2-Jamp" Tele COPPE WEL 14 Density TC PTI 25 2-Jamp" Tele COPPE WEL 14 Density TC PTI 24 2-Jamp" Tele COPPE WEL 14 Density TC PTI 25 2-Jamp" Tele COPPE WEL 14 Density TC PTI 26 2-Jamp" Tele COPPE WEL 15 Density TC PTI 27 2-Jamp" Tele COPPE WEL 15 Density TC PTI 27 2-Jamp" Tele COPPE WEL 15 Density TC PTI 27 2-Jamp" Tele COPPE WEL 15 Density TC PTI 27 3-Jamp" Tele COPPE WEL 15 Density TC PTI 27 3-Jamp" Tele COPPE WEL 15 Density TC PTI 27 3-Jamp" Tele COPPE WEL 15 Density TC PTI 27 3-Jamp" Tele COPPE WEL 15 Density TC PTI
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 | 20 14.00 Over DURRENT PROFECTION UUE: 100AT.3P, 230V MCL UUE: 100AT.3P, 230V MCL UUE: 100AT.3P, 230V MCL UUE: 100AT.3P, 230V MCL LOAD ANN FEEDER: UUE: 3-30 Genf THENA 14.6 14.56 14.58 14.58 16.69 16.83 100 4.82 30 4.82 30 4.82 38.60 UUE: 300AT, 3P, 22 MAN FEEDER: | 20 2-30m ² (%) Convert and
"-30m ² (%) Convert and
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R 20mml Prof. Prof.
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 | ution panel: ground floor (existing) | | VOL 15 | VA | AM | WP. AT | AT | | -T | |
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 | INCOMPAYING INC. IN DOWN PRC PRC INCOMPAYING INCOMPANYING INCOMPANYIN
 | N (R) IN 20mm PVC PPC N (R) N 20mm PVC PPC E IN 40 mm PVC PPCP22mm0 IMC PPC NS. RefAx, 80/PVC BIO/NTCO WITH GFAY | B 30xxx9 PK PPE B 30xx9 PK PPE B 30xx9 PK PPE G 30xx9 PK PPE C AKER IN NEMA 1 vend PAC PIPE/22/xmd IMC PIPE MAI, 84/PKACE MOUNTED WITH GRAY | N Scientel Proc Pare
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Load description | N VO | | | | | | And the second sec
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) 1 LEPA 230 6,440 28.00 63 2-14 Gmrg ¹ TB/H COPPER WRE 1-3 Gmrg ¹ TB/H CO

 | Production from the
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 | L-convert Handle L-So L-SO <thl-so< th=""> L-SO L-SO</thl-so<>

 | T. LOAD DESCRIPTION | N VOLTS | OLTS VA | VA AB | AMPER
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 | 20 =-1.1 20 =-1.4 21 =-1.4 21 =-1.4 22 =-1.4 23 =-1.4 24 =-1.4 25 =-1.4 26 =-1.4

 | 20 8-1.5.6mm ² Teles COPTRY MIRE 31. Ritemar JPC FIRIT 20 8-1.5.6mm ² Teles COPTRY MIRE 41. Ritemar JPC FIRIT 20 8-1.5.6mm ² Teles COPTRY MIRE 41. Ritemar JPC FIRIT 21 8-1.5.6mm ² Teles COPTRY MIRE 41. Ritemar JPC FIRIT 22 8-1.5.6mm ² Teles COPTRY MIRE 41. Ritemar JPC FIRIT 23 8-1.5.6mm ² Teles COPTRY MIRE 41. Ritemar JPC FIRIT 24 5.0.5mm ² Teles (COPTRY MIRE 41. Ritemar JPC FIRIT 2500 MICLIDED CASE CIRCULAT BREAKER IN NEMA 1
 | Inst PriC Pric 14 4- SPRIT FAVIS Inst PriC Pril 15 4- SPRIT FAVIS Inst PriC Pril 15 4- SPRIT FAVIS IS 4- SPRIT FAVIS 15 IS 4- SPRIT FAVIS 16 IS 4- SPRIT FAVIS 17 IS 4- SPRIT FAVIS 18 IS 5- SPRIT FAVIS 17 IS 5- SPRIT FAVIS 18 IT IS 5- SPRIT FAVIS IT IS SPRIT IT IS SPRIT IT<

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E CORPOLITE BREAKER IN NEMA 1
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MOWNTHY: NEISAL SUIR ACE MOUNTED WITH GRAY
PYCHINERE CO.NED FINIBIL</td><td>IN BIC IN 30mm8 / Vice PIPC Mid N 30mm8 / Vice PIPC IT DREAKER IN NEMA 1 E M40 vind PiPC PIPCP22nm8 IMC PIPE E M40 vind PiPC PIPCP22nm8 IMC PIPE Vice PiPC PIPCP22nm8 IMC PIPE Vice DOUTED FINESH Vice BiCINTED WITH GRAT</td><td>IN SORING PIC PIPE
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Load description</td><td>N VO</td><td></td><td></td><td></td><td></td><td>63 2–14.0m
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) 1 LIPA 230 6,440 28.00 63 2-14.0mm² TM GOOPER WEE N Jomm² P 0H7 AMPER LOAD 562E 0F 1 LIPA 230 6,440 780.00 63 2-14.0mm² TM GOOPER WEE N Jomm² P

 | A-converting range Col
 | Automic field Column Field

 | - Loging final conduction Cond

 | T. LOAD DESCRIPTION | N VOLTS | OLTS VA
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300 1.3 | AMPER
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 | NG)
PERE LOAR | USE : 100
MAIN FEED
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USE: 10.00,T, SP, 230V MOL
USE: 3-30 Gen/ TH-FN & 14.0
LOAD</td><td>20 7-36m² Tevr Carbon Bill
</td><td>INCOMPAYING INC. IN DOWN PRC PRC INCOMPAYING INCOMPAYING INCOMPANYING INCOMPANYING</td><td>N (MC) IN 20mm0 PMC PMC N (MC) N 20mm0 PMC PMC PMC N (MC) N 20mm0 PMC PMC PM</td><td></td><td>N Stoned Prof PAP</td><td></td><td>ution panel: ground floor (existing)
Load description
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 | INCOMPAYING INC. IN DOWN PRC PRC INCOMPAYING INCOMPAYING INCOMPANYING
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) 1 LEPA 2.3 6.440 28.00 63 2-14 Gmm ² TH SPRDAD WRE H J2mm ⁴ P CKT
NO. LOAD DESCRIPTION VOLTS VA AMPERE LOAD AT SEZE OF 2 LPPB 2.39 6.440 28.00 6.3 2-14 Gmm ² TH SPRDAD WRE H J2mm ⁴ P

 | 4-control intermation 2-control 3-control 3-contro 3-control 3-co
 | 4-UDITER PRIME 220 320 1.1 9 2-13/mm ² MRI OPPER WR N EXEMP PPE PPE 2 50000 (100) 1.20 4.00 1.00 1-20/mm ² MRI OPPER WR N ISSUMP PE 1.20/mm ² MRI OPPER WR N ISSUMP PE N ISSUMPPE N ISSUMPPE N ISSUMPPE N ISSUMPE N ISSUMPPE N ISSUMPE

 | 4-UOTING FRTUINGS 200 200 1.1 0.0 2.55% ***********************************

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300 1.3
 | AMPER
AB BI
1.31 | NG)
PERE LOAR | USE : 100
MAIN FEED
USE : 1 - 3 | .94
ER CURRENT PR
E 100AT 3P,
NPEEDSR :
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| 13-Journey articles xxx xxx <td>MAIN MAIN DISTRIBUTION PANEL (EXISTING) Main Panel Corport Net Corport Net</td> <td>4 - Grief Trivel 220 600 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 / 2 / 20 <th< td=""><td>4-least rysel 230 600 2.8 2.0 1-2-symptile rysel N Dimer 9/C PPC 6 OTER LIA/CS 2.0 6.4 2 2-3-symptile rysel 91 20word 90(198) 92 20word 90(198) 91 20word 90(1</td><td>4-least Fixed 2.0 600 2.01 2.00 2.00 2.00 6.00</td><td>LOAD DESCRIPTION
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) Main Panel Corport Net

 | 4 - Grief Trivel 220 600 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 2 / 20 / 2 / 20 <th< td=""><td>4-least rysel 230 600 2.8 2.0 1-2-symptile rysel N Dimer 9/C PPC 6 OTER LIA/CS 2.0 6.4 2 2-3-symptile rysel 91 20word 90(198) 92 20word 90(198) 91 20word 90(1</td><td>4-least Fixed 2.0 600 2.01 2.00 2.00 2.00 6.00
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 | 4-least Fixed 2.0 600 2.01 2.00 2.00 2.00 6.00

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 | 20 3-1.5.6m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE 20 1-5.5m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE 20 1-5.5m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE 20 1-5.5m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE 20 1-5.5m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE 21 1-5.5m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE 22 1-5.5m/" Tele COPTE WEE 31.8.7ml / Tele COPTE WEE TECHCON SOURCIDED CASE CIRCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3.14.6.ml / TE CORCULAT BREAKER IN NEMA 1 NN 3
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 | Initial Control Proc Proc Initial Control Proc Initial Control Proc <td>B (BC) III Shme PVP (PVC) B (S) III Shme PVP (PVC) M (S) III Shme PVP (PVC) III Shme PVP (PVC) III Shme PVP (PVC) III Shme PVP (PVC) III Shme PVP (PVC) III Shme PVP (PVC) III Shme PVP (PVC) Shift Shme PVC (PVC) IIII Shme PVC (PVC) Shift Shme PVC (PVC) IIII Shme PVC (PVC) Shift Shme PVC (PVC) IIII Shme PVC (PVC) Shift Shme PVC (PVC) III Shme PVC (PVC) III Shme PVC (PVC) III Shme PVC (PVC) III Shme PVC (PVC) III Shme PVC) III Shme PVC (PVC) III Shme PVC) III Shme PVC (PVC) IIII Shme PVC) IIII Shme PVC) IIII Shme PVC) IIII Shme PVC) IIII Shme PVC) IIII Shme PVC) IIIII Shme PVC) IIII Shme PVC)</td> <td>III 20xxxx0 PVC PVC IX 20xxx0 PVC PVC IX 20xxx0 PVC PVC</td> <td>N Scientel Prof. Prof. B. Scientel Prof. Prof. I. Scientel Prof. Prof. I. NEMA 1 DIRC/22/crand INC Prof. I. Scientel Prof. Prof. I. Scientel Prof. Prof. I. Scientel Prof. Prof. II. Scientel Prof. III. Scientel Prof. III. Scientel Prof.</td> <td>Increase DEPED D BUILDING : MCPPE MAIN DISTREPTION PAILL OF WITH GRAT RO. DUITS 2 Inverse Ro-RME 3 Inverse Ro-RME 4 Inverse Ro-RME 5 Inverse Ro-RME 6</td> <td>uton Panel: ground floor (existing)
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1.31</td> <td>30 cr. OURTENT RE E: 1004T, 3P, NTREDOR: E: 30.0mm/ TI 30 30 1 30 1 30 1 30 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20</td> <td>20 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 20 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 20 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 21 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 22 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 23 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 24 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 25 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 26 8-Jamp" Tell COPPE WELL 8: Rever JPC (P) 27 8: Rever JPC (P) 8: Rever JPC (P) 28 8: Rever JPC (P) 8: Rever JPC (P) 29 8: Rever JPC (P) 8: Rever JPC (P) 20 8: Rever JPC (P) 8: Rever JPC (P) 30/VLIDED CASE CIRCUIT BREAKER IN NEMA 1 9: Rever JPC (P) 31 8: Rever JPC (P) 9: Rever JPC (P) 4: Rever JPC (P) 8: Rever JPC (P) 9: Rever JPC (P) 5: Rever JPC (P) 9: Rever JPC (P) 3: Rever JPC (P) 4: Rever JPC (P) 9: Rever JPC (P) 3: Rever JPC (P)</td> <td>Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 15 4 - SPRIT FAUS Inst Pric Pric 16 4 - SPRIT FAUS Inst Pric Pric Inst Pric Pric Pric 17 Inst Pric Pric Inst Pric Pric Pric Pric Pric Pric Pric Pric</td> <td>Train 230 ravis 230 cN1 330 thrappenetric 330 cN1 14/3104 thrappenetric 5 CR1 14/3104 bisRoRiption VOLTS VSCOR 230 doit 230 ge 230</td> <td>000 </td> <td>OVER DLR OVER DLR USE 100 MARTEED URE URE 1-32 MPERE LOAD BC CA L32 L325 (L40) L325 (L40) L428 8.36 L428 8.36 4.62 6.32</td> <td>20 14.00 0AVER DURRENT PROFECTION
USE: 100AT, 3P, 230V MCL
WAIN/FEDDR: UGE: 3-20 Gen/T TH/N A 14.0 CA 28 14.38 100 14.49 100 14.59 100 14.59 100 14.59 100 14.59 100 14.59 100 14.59 100 14.52 30 4.52 30</td> <td>20 2-3.0m/* 1994 (2019) BIE 2-3.0m/* 1994 (2019) BIE </td> <td>No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)</td> <td>B (BC) III 30mm8 PVP PVE M 30mm8 PVP PVE M 30mm8 PVP PVE M 20mm8 PVP PVE M 30mm8 PVP PVE M 30mm8 PVP PVP PVP PVP M 30mm8 PVP PVP M 30mm8 PVP PVP M 30mm8 PVP PVP</td> <td>III 20xxxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE AAKER IN NEMA 1 AND PVC PVE/22xxxx0 IAC PVE AAX SUPE ACE INOUNTED WITH GRAY SEE OF CONDUCTS RE IX 20xxxx SEE OF CONDUCTS RE IX 20xxxx PVC PVE CONDUCTS RE IX 20xxxX PVC PVE RE IX SEE OF CONDUCTS RE IX 20xxxX PVC PVE RE IX IX 20xxX PVC IXE IXE IXE IXE IXE IXE IXE IXE IXE IXE</td> <td>N 20end Prof PPE
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NEWA 1</td> <td>VET PRE DEPED D BUILDING ; NO PRE MAIN DISTRIBUTION PANEL: GI VWTH GRAY CX7, LOM DUITS 2 Nor RS - PRC 3 Nor RS - PRC 4 Nor RS - PRC 5 Nor RS - PRC 6</td> <td>uton Panel: ground floor (existing)
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 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 1-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20 2-34 20
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 | Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 15 4 - SPRIT FAUS Inst Pric Pric 16 4 - SPRIT FAUS Inst Pric Pric Inst Pric Pric Pric 17 Inst Pric Pric Inst Pric Pric Pric Pric Pric Pric Pric Pric

 | Train 230 ravis 230 cN1 330 thrappenetric 330 cN1 14/3104 thrappenetric 5 CR1 14/3104 bisRoRiption VOLTS VSCOR 230 doit 230 ge 230
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 | No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTRIBUTION PANEL

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4-Learnine Tratains
13-Learning Tratains
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 | Train 230 ravis 230 cN1 330 thrappenetric 330 cN1 14/3104 thrappenetric 5 CR1 14/3104 bisRoRiption VOLTS VSCOR 230 doit 230 ge 230
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 | OVER DLR OVER DLR USE 100 MARTEED URE URE 1-32 MPERE LOAD BC CA L32 L325 (L40) L325 (L40) L428 8.36 L428 8.36 4.62 6.32 | 20 14.00 0AVER DURRENT PROFECTION
USE: 100AT, 3P, 230V MCL
WAIN/FEDDR: UGE: 3-20 Gen/T TH/N A 14.0 CA 28 14.38 100 14.49 100 14.59 100 14.59 100 14.59 100 14.59 100 14.59 100 14.59 100 14.52 30 4.52 30 | 20 2-3.0m/* 1994 (2019) BIE 2-3.0m/* 1994 (2019) BIE | No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)
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 | 83 2-14 Gm 1-3.Chrm 1-3.Chrm 83 1-4.Gm
 | THIN COPPER WRE
TW GROUND WRE | CON
14 32mm9
14 32mm9
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| 13-James Trained 100 178

 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) Matrix MAIN DISTRIBUTION PANEL (EXISTING) 1 LIPA 23 6,440 28.00 6.3 2-4 (amplit hash) (OPFR WEE H 32mml MAIN MAIN DISTRIBUTION PANEL (EXISTING) Matrix Main Distribution

 | USE : 100AT, ZP, 2307 MOULDED CASE CIRCUIT BREAKEN
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 | LOAD DESCRIPTION 4-49/01/06 TRURES 4-49/01/06 TRURES 4-49/01/06 TRURES 4-49/01/07 RURES 4-49/01/04/04 4-49/01/04/04 4-49/01/04/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/01/04 4-49/04 4-49/01/04 4-49/0 | V VOLTS
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P-11 90 P-12
P-12 90 P-12
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P-12 91 P-12 92 P-12 93 P-12 94 P-12 95 P-24 90 P-24
 | 20 8-Jamp" Tele COPTE WEE 31 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 21 3-Jamp" Tele COPTE WEE 41 Revery PC P1 22 2-Jamp" Tele COPTE WEE 41 Revery PC P1 23 2-Jamp" Tele COPTE WEE 41 Revery PC P1 24 3-Jamp" Tele COPTE WEE 41 Revery PC P1 25 3-Samp" Tele ROOTE WEE 41 Revery PC P1 26 3-Samp" Tele ROOTE WEE 41 Revery PC P1 27 3-Samp" Tele ROOTE WEE 41 Revery P1 28 3-Samp" Tele R
 | Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 15 4 - SPRIT FAUS Inst Pric Pric 16 4 - SPRIT FAUS Inst Pric Pric 18 4 - SPRIT FAUS Inst Pric Pric 18 9 - SC Inst Pric Pric 1 GRAVE Inst Pric Pric 1 GRAVE TALORI Inst Pric Pric 1 GRAVE TALORIT Inst Pric Pric 1 GRAVE TALORIT <t< td=""><td>rate 120 rate 220 rate 230 rate 230 rate 230 rate 230 rate 230 rate 230 con 230 ge 230 </td><td>000 </td><td>OVER CLR
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USE 100AT, 3P, 230V MCL
WAINFEEDER
USE 3-20 Gen/ TH/NA 14.0 UOAD CA 30 AT 15.38 16.39 16.30 2.30 0.1 16.39 170 4.32 30 230 | 20 2-3.0m/* 1994 (2019) BIE 2-3.0m/* 1994 (2019) BIE
 | No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)
 | B (BC) III 30mm8 PVP PVE M 30mm8 PVP PVE M 30mm8 PVP PVE M 20mm8 PVP PVE M 30mm8 PVP PVE M 30mm8 PVP PVP PVP PVP M 30mm8 PVP PVP M 30mm8 PVP PVP M 30mm8 PVP PVP | III 20xxxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE IX 20xxxx PVC PVE AAKER IN NEMA 1 AND PVC PVE/22xxxx0 IAC PVE AAX SUPE ACE INOUNTED WITH GRAY SEE OF CONDUCTS RE IX 20xxxx SEE OF CONDUCTS RE IX 20xxxx PVC PVE CONDUCTS RE IX 20xxxX PVC PVE RE IX SEE OF CONDUCTS RE IX 20xxxX PVC PVE RE IX IX 20xxX PVC IXE | N 20end Prof PPE
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NEMA 1
NEMA 1
NEWA 1 | Inc. Page DEPED D BUILDING ; MC Page MAIN DISTRIBUTION PANEL: GI WITH GRAY IC. DUITS: CKY. DUITS: C Invit MC Page 3 Invit MC Page 3 Invit MC Page 4 Invit MC Page 5 Invit MC Page 6 Invit MC Page 6 Invit MC Page COMPUTATION : | VTON PAILE: GROUND FLOOR (ESISTING
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) Matrix Main Distrib

 | COMPLITATION
 | COMPITATION OVER CHEVEN DISCOULD # 11200 AMP

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 | LOAD DESCRIPTION 4-49/07/06 TRUINES 4-49/07/06 TRUINES 4-49/07/06 TRUINES 4-49/07/07/07/07/07/07/07/07/07/07/07/07/07/ | V VOLTS
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 | 20 8-Jamp" Tele COPTE WEE 31 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 21 3-Jamp" Tele COPTE WEE 41 Revery PC P1 22 2-Jamp" Tele COPTE WEE 41 Revery PC P1 23 2-Jamp" Tele COPTE WEE 41 Revery PC P1 24 3-Jamp" Tele COPTE WEE 41 Revery PC P1 25 3-Samp" Tele ROOTE WEE 41 Revery PC P1 26 3-Samp" Tele ROOTE WEE 41 Revery PC P1 27 3-Samp" Tele ROOTE WEE 41 Revery P1 28 3-Samp" Tele R
 | Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 15 4 - SPRIT FAUS Inst Pric Pric 16 4 - SPRIT FAUS Inst Pric Pric 18 4 - SPRIT FAUS Inst Pric Pric 18 9 - SC Inst Pric Pric 1 GRAVE Inst Pric Pric 1 GRAVE TALORI Inst Pric Pric 1 GRAVE TALORIT Inst Pric Pric 1 GRAVE TALORIT <t< td=""><td>rate 120 rate 220 rate 230 rate 230 rate 230 rate 230 rate 230 rate 230 con 230 ge 230 </td><td>000 </td><td>APERE LOAD
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SC 400</td><td>20 14.00 0-VER DURATS IP PICTECTION USE: 100AFLS IP 230V MOL USE: 100AFLS IP 230V MOL MAN FEEDER: UGE: 3-30 Genf TH+N A 14.0 14.38 14.39 14.39 14.30 14.30 14.30 14.30 14.30 14.30 14.30 16.30 14.30 16.30 16.30 16.32 30 4.52 30 4.52 30 58.60</td><td>20 2-3.0m/* 1994 (2019) BIE 2-3.0m/* 1994 (2019) BIE </td><td>No.00070 (mile) No.00047 (mile) VEX.00047 (mile) 4.20mm4 (mile)</td><td>B (BC) III 30mm8 PVP PVE M 30mm8 PVP PVE M 30mm8 PVP PVE M 20mm8 PVP PVE M 30mm8 PVP PVE M 30mm8 PVP PVP PVP PVP M 30mm8 PVP PVP M 30mm8 PVP PVP M 30mm8 PVP
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) 1 LIPPA 23 6,440 28.00 6.3 2-4 4 (mm) 1 m GOUDIN Wite N 30mm MOX LOUD DESCRIPTION Vol. IS

 | COMPUTATION OVER CURRENT PROTECTION IT = 112.00 MMP
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 | 20 8-Jamp" Tele COPTE WEE 31 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 20 8-Jamp" Tele COPTE WEE 41 Revery PC P1 21 3-Jamp" Tele COPTE WEE 41 Revery PC P1 22 2-Jamp" Tele COPTE WEE 41 Revery PC P1 23 2-Jamp" Tele COPTE WEE 41 Revery PC P1 24 3-Jamp" Tele COPTE WEE 41 Revery PC P1 25 3-Samp" Tele ROOTE WEE 41 Revery PC P1 26 3-Samp" Tele ROOTE WEE 41 Revery PC P1 27 3-Samp" Tele ROOTE WEE 41 Revery P1 28 3-Samp" Tele R
 | Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 14 4 - SPRIT FAUS Inst PriC Pric 15 4 - SPRIT FAUS Inst Pric Pric 16 4 - SPRIT FAUS Inst Pric Pric 18 4 - SPRIT FAUS Inst Pric Pric 18 9 - SC Inst Pric Pric 1 GRAVE Inst Pric Pric 1 GRAVE TALORI Inst Pric Pric 1 GRAVE TALORIT Inst Pric Pric 1 GRAVE TALORIT <t< td=""><td>rate 120 rate 220 rate 230 rate 230 rate 230 rate 230 rate 230 rate 230 con 230 ge 230 </td><td>000 </td><td>OVER CLR
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TW GROUPS WI</td> <td>7,230 AM M,421 N.30 7,230 AM M,421 7,230 AM 7,230 AM 112,00 AMP</td> <td>USE: 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER</td> <td>17.30 AM 1422 AM USE 300AT, 3P, 2300 MOULDED CASE CIRCUIT BREAKER</td> <td>LOAD DESCRIPTION
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1-Jahom" Teles COPTER WRITE
20 8-Jahom" Teles COPTER WRITE
20 9-Jahom" Teles</td><td>Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 15 4 - SPEIT FAUS If 2 4 - SPEIT FAUS 17 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 7 4 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 8 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 8 - SPEIT FAUS 18 If 7 - SPEIT FAUS 17 If 7 - SPEIT FAUS 17 If 7 - SEE FET FAUS 17 If 7 - SEE FET FAUS 17</td><td>TA16 230 rA15 233 rA16 230 rA16 330 rA17 330 rA17 330 rA17 330 rA11 ra17 rA16 230 rA16 230 rA16 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA18 230 rA19 230 rA11 230 rA11 230 rA11 230 rA19 230 rA10 230 rA11 230 rA11 230 rA11</td><td>000 </td><td>OVER CLR
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TW GROUPS WI

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 | USE: 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER

 | 17.30 AM 1422 AM USE 300AT, 3P, 2300 MOULDED CASE CIRCUIT BREAKER

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1-Jahom" Teles COPTER WRITE
20 8-Jahom" Teles COPTER WRITE
20 9-Jahom" Teles</td> <td>Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 14 4 - SPEIT FAUS Inst PIC PPE 15 4 - SPEIT FAUS If 2 4 - SPEIT FAUS 17 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 3 4 - SPEIT FAUS 18 If 4 - SPEIT FAUS 18 If 7 4 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 8 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 7 - SPEIT FAUS 18 If 8 - SPEIT FAUS 18 If 7 - SPEIT FAUS 17 If 7 - SPEIT FAUS 17 If 7 - SEE FET FAUS 17 If 7 - SEE FET FAUS 17</td> <td>TA16 230 rA15 233 rA16 230 rA16 330 rA17 330 rA17 330 rA17 330 rA11 ra17 rA16 230 rA16 230 rA16 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA17 230 rA18 230 rA19 230 rA11 230 rA11 230 rA11 230 rA19 230 rA10 230 rA11 230 rA11 230 rA11</td> <td>000 </td> <td>OVER CLR
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DPP/22/mm8/IMC PPE
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 | 20 8-Jahom" Teles COPTER WRITE
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 | MAIN MAIN DISTRIBUTION PANEL (EXISTING) I LIPA 23 6,440 28.00 63 2-44.0mm ² THE COPER WRG #1.32mm ² Image: Compute Scale from the Comput Scale from the Comput Scale from the Comput Scale from t

 | 2220 as 4.20 s.a COMPUTATION: Over quarker interaction IT = 112:00 AMP COMPUTATION: UPE: 320.7 SP, 230 MOULDED CASE CIRCUIT BREAKER IT = 112:00 AMP Main
retore:
 | DAME Description USE: 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER MAIN FEEDER: OMPUTATION: Over Langent Profession USE: 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER USE: 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER IN NEUA 1 IT = 6.732 XI (50.85 A)+(6.23 X 8.07)

 | 7.300 AME 14.22 AME 14.22 AME USE : 300AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER 0.MPUTATION : Over LURIENT RIOTECTION
USE : 72AT 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IT = 6.732 X (6.98.6.3)+(9.23 X 8.03) IT = 6.732 X (6.98.6.3)+(9.23 X 8.03)

 | LOAD DESCRIPTION
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 | 20 8-1.5.6mg/ Teles COPTER WRITE 81. Revert JPC (19) 20 1-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 20 1-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 21 2-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 22 2-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 23 2-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 24 2-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 25 2-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 26 2-5.5mg/ Teles COPTER WRITE 81. Revert JPC (19) 27 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 28 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 27 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 28 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 29 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 29 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 29 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19) 29 2-5.5mg/ Teles COPTER RRITE 81. Stander MC (19)<
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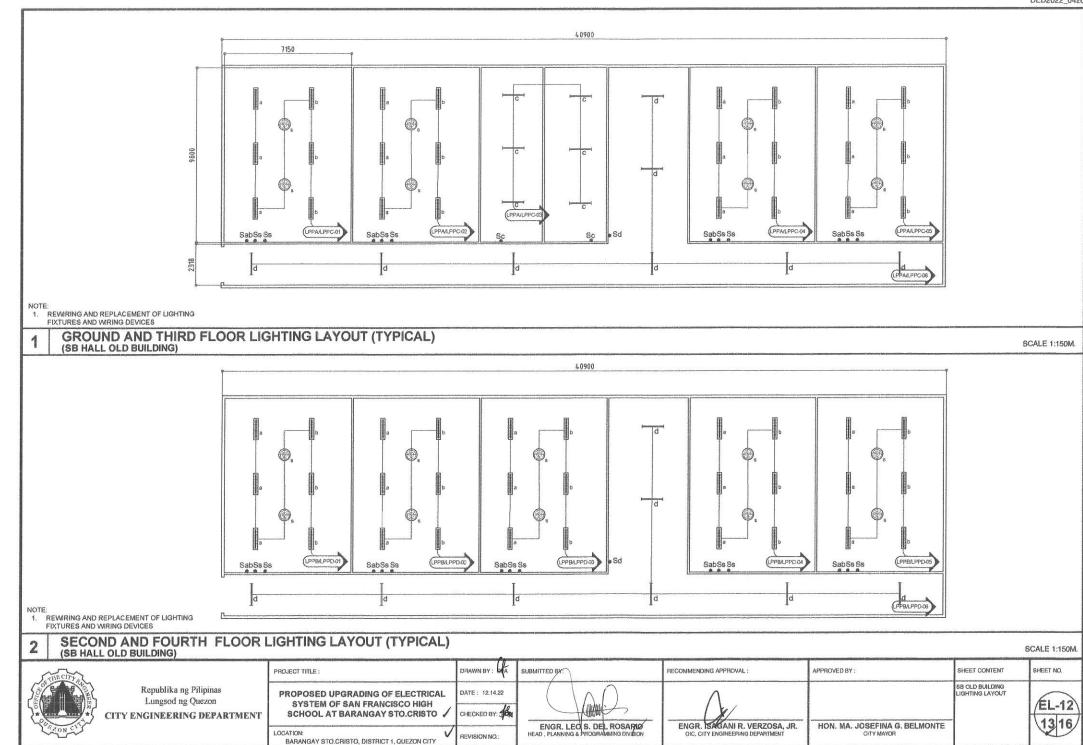
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91. 25end RG PPE | Inc. Page DEPED D BUILDING ; MC Page MAIN DISTRIBUTION PANEL: GI WITH GRAY IC. DUITS: CKY. DUITS: C Invit MC Page 3 Invit MC Page 3 Invit MC Page 4 Invit MC Page 5 Invit MC Page 6 Invit MC Page 6 Invit MC Page COMPUTATION :
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| 13 13 <th< td=""><td>MAIN MAIN DISTRIBUTION PANEL (EXISTING) I LIPA 23 6.440 28.00 6.3 24.6mm² TW GOULDW WRG W 32mm⁴ NOT LOUD DESCRIPTION VOL 15 VA AMPERLIAND SECOF 23 6.440 28.00 6.3 24.6mm² TW GOULDW WRG W 32mm⁴ 1 GROW DLOGR 239 6.440 28.00 6.3 24.6mm² TW GOULDW WRG W 32mm⁴ 2 SCOMP (LGOR 229 6.40 100 2-3.0mm² TW GOULDW WRG W 32mm⁴ 3 THE PLANE 1.3 1.00 2-3.0mm² TW GOULDW WRG W 32mm⁴ 4 FOURTING CONT 230 6.440 28.00 6.3 2-4.60m² TW GOULDW WRG W 32mm⁴ 5 SCOMP (LGOR 220 6.40 28.00 6.3 2-4.60m² TW GOULDW WRG W 32mm⁴ 4 LIPPO 2.3 6.440 28.00 6.3 2-4.60m² TW GOULDW WRG W 32mm⁴ 5 SCOMP (LGOR WG WG WG WG WG WG WG W 32mm⁴ 3</td><td>7.200 8.80 14.22 8.80 14.22 8.80 14.22 8.80 14.22 8.80 112.00 AMP COMPUTATION: Over current protection
USE: 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP If 112.00 AMP COMPUTATION: Over current protection
USE: 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP IMAIN FEEDER: T ISB : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP ISB : 2.60,000m² TMHN & 1.41.00m² TW GROUND WIRE
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 | 7.200 8.80 14.22 8.80 14.22 8.80 14.22 8.80 14.22 8.80 112.00 AMP COMPUTATION: Over current protection
USE: 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP If 112.00 AMP COMPUTATION: Over current protection
USE: 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP IMAIN FEEDER: T ISB : 7AVT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1 IF 112.00 AMP ISB : 2.60,000m² TMHN & 1.41.00m² TW GROUND WIRE
IN 40mm² MC PPE

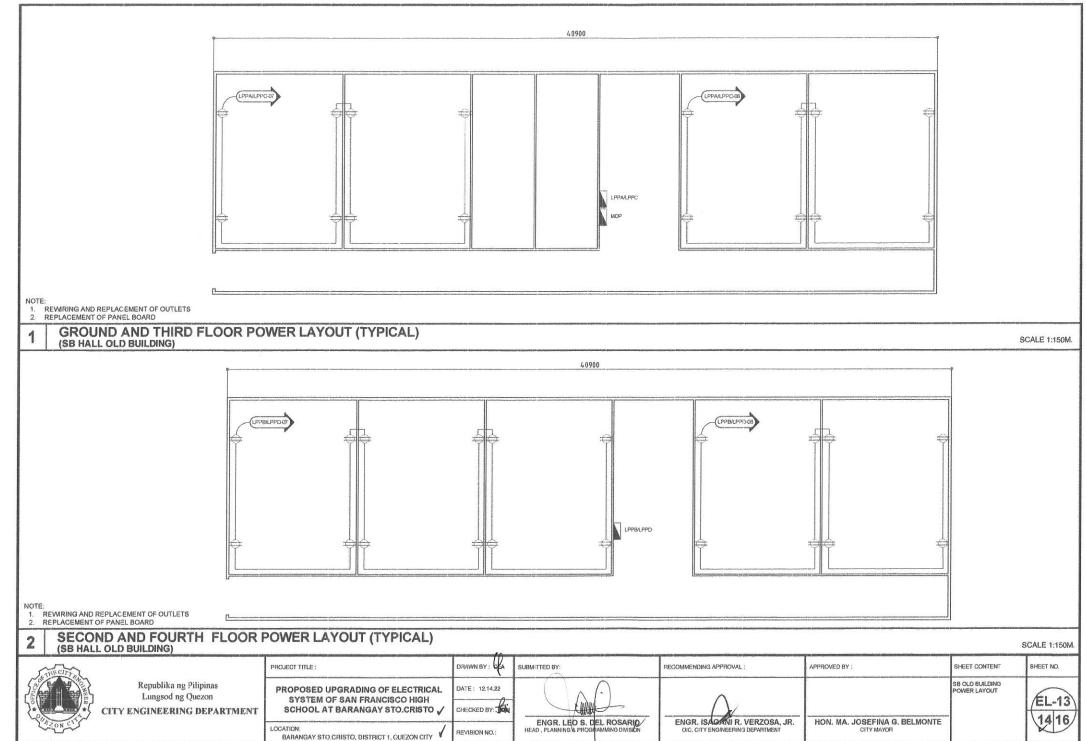
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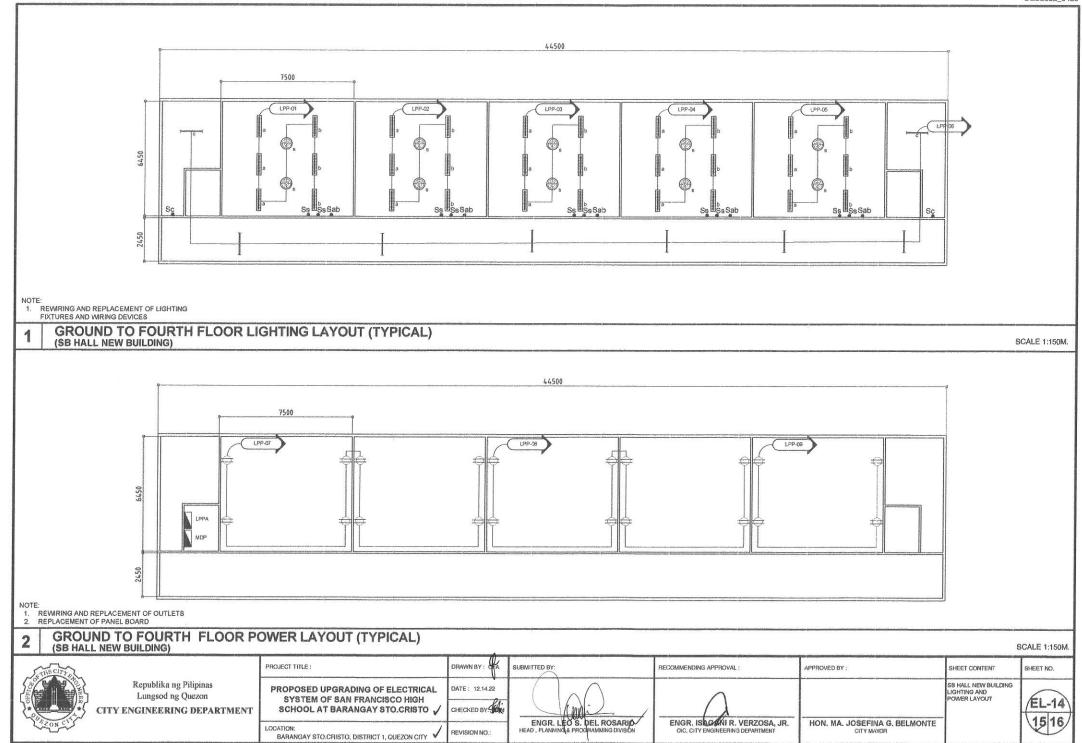
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Z	20N CY		LOCATION: BARANGAY STO.CHISTO, DISTRICT 1, QUEZON CITY	REVISION NO .:	ENGR. LED S. DEL ROSARIO	ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR		1210

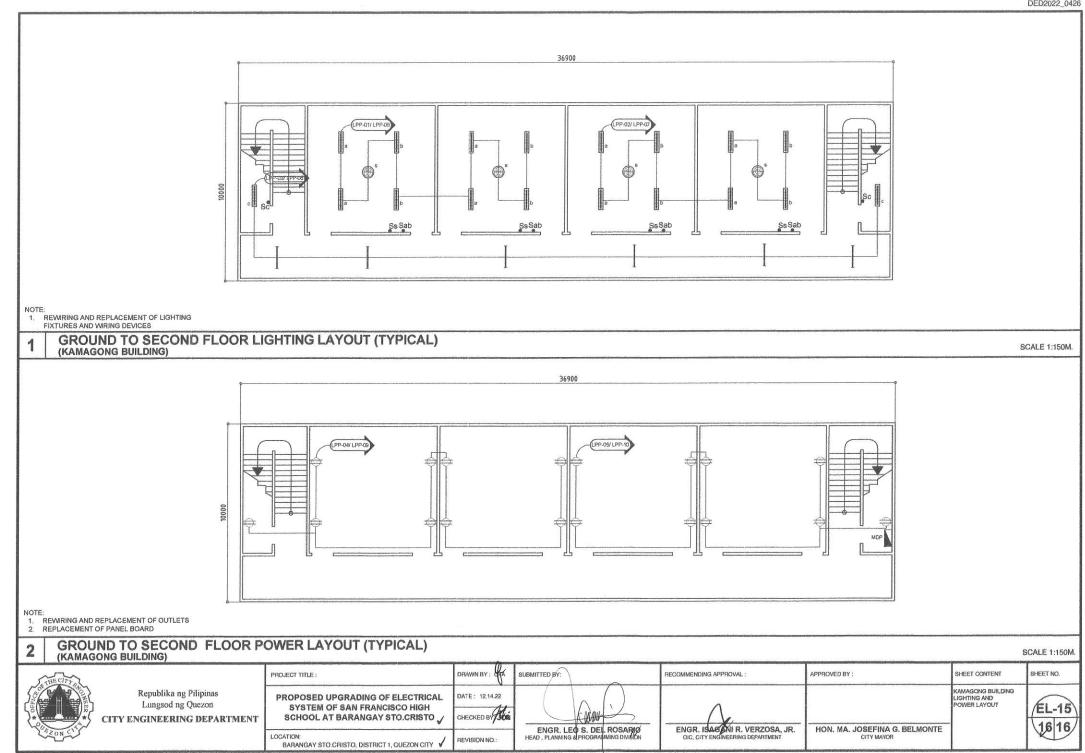


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Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

PROJECT TITLE: PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHOOL

LOCATION : BARANGAY STO. CRISTO, DISTRICT 1, QUEZON CITY

PROJECT NO. : 23 - 00045

DURATION : Ninety (90) Calendar Days

BREAKDOWN OF COST

ITEM CODE	ITEM OF WORK (Description)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
GR	GENERAL REQUIREMENTS				
OGR	OTHER GENERAL REQUIREMENTS				
I	UPGRADING OF MAIN SERVICE ENTRANCE				
П	DAU BUILDING				
III	NARRA BUILDING				
IV	MOLAVE BUILDING				
V	SB OLD BUILDING				
VI	SB NEW BUILDING				
VII	KAMAGONG BUILDING				

TOTAL COST P

LUMP SUM BID IN WORDS : _____

Contractor : _____

Page 3 of 3 Bid Form

BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

PROJECT TITL	E : PROPOSED UPGRADING OF ELECTRICAL SYSTEM OF SAN FRANCISCO HIGH SCHOOL
LOCATION	: BARANGAY STO. CRISTO, DISTRICT 1, QUEZON CITY
PROJECT NO.	: 23 - 00045
DURATION	: Ninety (90) Calendar Days
SCOPE OF WOR	
GR	General Requirements include billboard(s).
OGR	Other General Requirements (Non - O.C.M.) include, but not limited to:
1	Clearing, hauling and disposal of construction materials and debris. Temporary water facility.
2 3	Temporary electrical system including electric meter/sub-meter and connections.
4	Scaffolding for general use (rental).
4	Upgrading of Main Service Entrance
I-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, components, panelboards, and accessories.
I-UTI	Utility and Ancillary Works
1	Installation of earth pit and distribution post
II	Dau Building
II-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, components, panelboards, and accessories.
111	Narra Building
III-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, components, panelboards, and accessories.
IV	Molave Building
IV-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2 V	Installation of system devices, components, panelboards, and accessories. SB Old Building
V-SW	Site Works
1	Chipping of Concrete Wall for electrical works.
2	Clearing and cleaning for painting preparation.
V-CWS	Civil / Structural Works
1	Masonry Works includes restoration of concrete.
V-AW	Architectural Works
1	Painting Works include interior walls.
V-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, components, panelboards, and accessories.
VI	SB New Building
VI-SW	Site Works
1	Chipping of Concrete Wall for electrical works.
2	Clearing and cleaning for painting preparation.

VI-CWS	Civil / Structural Works
1	Masonry Works includes restoration of concrete.
VI-AW	Architectural Works
1	Painting Works include interior walls.
VI-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, components, panelboards, and accessories.

VII	Kamagong Building
VII-SW	Site Works
1	Chipping of Concrete Wall for electrical works.
2	Clearing and cleaning for painting preparation.
VII-CWS	Civil / Structural Works
1	Masonry Works includes restoration of concrete.
VII-AW	Architectural Works
1	Painting Works include interior walls.
VII-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, components, panelboards, and accessories.
0	Others (included in O.C.M)
1	Provision of construction, health and safety such as safety gears, medicine kit, etc.
2	Preparation of shop drawings, as necessary.
3	Preparation of as-built plans (signed and sealed by the respective professional(s)).
4	Testing and commissioning works shall be performed as per standard procedures.

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
GR	GENERAL REQUIREMENTS				
SPL7	Billboard (1.20m x 2.40m in Plywood)	1	piece	P	ŧ
			MAT	ERIALS COST GR	₽
				LABOR COST GR	
				DIRECT COST GR	P
OGR	OTHER GENERAL REQUIREMENTS				
OGR01	Clearing and Cleaning for Hauling Disposal	2	t.l	₽	₽
OGR0301	Temporary Water Facility (For Renovation)	1	unit		
OGR0302	Temporary Electrical Facility (Rehabilitation)	1	unit		
	S	Subtotal OGF	R02c - O	GR0302 (Materials)	₽
OGR05	Scaffolding (Rental)	239	sq.m.	₽	₽
		Subto	al OGR01 - OGR05 (Labor)		P
			МАТ	FERIALS COST GR	Ð
			LABOR COST GR		1
				DIRECT COST GR	P
I	UPGRADING OF MAIN SERVICE ENTRANCE				
I-EW	Electrical Works				
EW01	Pipes				
EW0102	25mmØ PVC Pipe	2	piece	₽	₽
EW0118	90mmØ IMC Pipe	6	piece		
EW05	Fittings and Accessories				
EW05011	25mmØ PVC Adaptor	4	piece		
EW05023	25mmØ PVC Locknut and Bushing	4	pair		
EW05039	90mmØ IMC Elbow	5	piece		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW05049	90mmØ IMC Locknut and Bushing	20	pair		
EW05145	125mm ² Ø Solderless Connector with Two-Bolt	28	pair		
EW05149	250mm ² Ø Solderless Connector with Two-Bolt	18	pair		
EW05161	90mmØ Weatherproof Entrance Cap, Diecast Type	6	piece		
EW05166	Secondary Rack with 2-Spool, Heavy Duty	10	assy		
EW05164	Secondary Rack with 3-Spool, Heavy Duty	28	assy		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW12	Grounding System			_	
EW1202	20mm Ø x 3000mm Grounding Rod with Ground Clamp	4	set		
EW1216	Powder for GT Connection	1	tube		
EW1203	Oval Eyebolt with Nut	1	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090117	250mm ² THHN Wire	90	l.m.		
EW0902	THW Wires				
EW090213	125mm ² THW Wire	1901	I.m.		
EW0903	TW Wires				
EW090309	50mm ² TW Wire	30	l.m.		
EW0904	Bare Copper Wires (Stranded)				
EW090409	50mm ² Bare Copper Wire	20	l.m.		
EW13	Panel board				
	Main Circuit Breaker				
ASSY	Main: 800AT, 3P, 230V, MCCB	1	assy		
	Branches: 2-400AT, 3P, 230V				
	Enclosure: NEMA 3R with Ground Terminals				
	and Terminal Lugs				
	Main Distribution Panel				
ASSY	Main: 400AT, 3P, 230V, MCCB	1	assy		
40118	Branches: 2-200AT, 2P, 230V				
	2-150AT, 2P, 230V				
	3-100AT, 2P, 230V				
	Enclosure: NEMA 3R with Ground Terminals				
EW16	and Terminal Lugs Pipe Hangers and Supports				
EW1602		15	1 m		
MC	Vertical Layout of Pipe Miscellaneous and Consumables	15	l.m.		
MC/G	(Common Items)				
MC/G06					
MC/G08 MC/G13	Hacksaw Blade All Around Sealant	3	piece		
		7	tube		
MC/G18	Waste Cloth	4	kg		
MC/G37	G.I. Tie Wire, Ga.16 (for Wire / Cable Pulling)	4	kg		
MC/E	(Electrical Works)				
MC/E01	Electrical Tape	15	roll		
MC/E04	Rubber Tape	10	roll		
MC/E12	16mmØ Nylon Rope	30	l.m.		
					₽
				Materials Cost I-EW	F
				Labor Cost I-EW	Ð
				Direct Cost I-EW	₽
I-UTI	Utility and Ancillary Works				
I-SW	Site Works				
106	Excavation for utility works	4	cu.m.	₽	P
					₽
]		Labor Cost I-UTI	٢

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
I-CWS	Civil / Structural Works				
UT010302	Earth Pit 0.30m x 0.30m x 0.30m	1	unit	₽	P
UT010401	Distribution Post 0.40m x 0.40m x 6.00m	1	unit		
				Direct Cost I-CWS	₽

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
			MATERIALS COST I LABOR COST I		₽
				DIRECT COST I	₽
II	DAU BUILDING				
II-EW	Electrical Works				
EW01	Pipes				
EW0104	40mmØ PVC Pipe	2	piece	P	P
EW0115	50mmØ IMC Pipe	1	piece		
EW05	Fittings and Accessories				
EW05004	40mmØ PVC Elbow	2	piece		
EW05013	40mmØ PVC Adaptor	2	piece		
EW05025	40mmØ PVC Locknut and Bushing	2	pair		
EW05036	50mmØ IMC Elbow	1	piece		
EW05046	50mmØ IMC Locknut and Bushing	2	pair		
EW05056	50mmØ IMC Coupling	2	piece		
EW05158	50mmØ Weatherproof Entrance Cap	1	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090107b	30mm ² THHN Wire	10	l.m.		
EW090109	50mm ² THHN Wire	40	l.m.		
EW0903	TW Wires				
EW090304b	8.0mm ² TW Wire	5	l.m.		
EW090305b	14.0mm ² TW Wire	20	l.m.		
EW13	Panel Board				
ASSY.	Main: 150AT, 2P, 230V	1	assy		
	Branches: 2 - 100 AT, 2P, 230V				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY.	Main: 100AT, 2P, 230V	1	assy		
	Branches: 8 - 20 AT, 2P, 230V				
	6 - 30 AT, 2P, 230V				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY	Main: 100AT, 2P, 230V	1	assy		
	Branches: 8 - 20 AT, 2P, 230V				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
EW16	Pipe Hangers and Supports				
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	1	piece		
MC/G13	All Around Sealant	1	tube		
MC/G14	Solvent Cement, 400cc	1	can		
MC/G18	Waste Cloth	1	kg		
MC/G37	G.I. Tie Wire, Ga.16 (Wire / Cable Pulling)	1	kg		
MC/E	(Electrical Works)				
MC/E01	Electrical Tape	2	roll		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
			MATERIALS COST II		₽
			LABOR COST II		
			DIRECT COST II		₽
III	NARRA BUILDING				
III-EW	Electrical Works				
EW01	Pipes				
EW0115	50mmØ IMC Pipe	1	piece	₽	₽

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW05	Fittings and Accessories				
EW05036	50mmØ IMC Elbow	1	piece		
EW05046	50mmØ IMC Locknut and Bushing	2	pair		
EW05056	50mmØ IMC Coupling	2	piece		
EW05158	50mmØ Weatherproof Entrance Cap	1	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090109	80mm ² THHN Wire	40	I.m.		
EW0903	TW Wires				
EW090305b	22.0mm ² TW Wire	20	I.m.		
EW13	Panel Board				
ASSY	Main: 200AT, 2P, 230V	1	assy		
	Branches: 2 - 100 AT, 2P, 230V	1	uccy		
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
EW16	Pipe Hangers and Supports				
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables	-			
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	1	piece		
MC/G13	All Around Sealant	1	tube		
MC/G14	Solvent Cement, 400cc	1	can		
MC/G18	Waste Cloth	1	kg		
MC/G37	G.I. Tie Wire, Ga.16 (for Wire / Cable Pulling)	1	kg		
MC/E	(Electrical Works)	1	kg		
MC/E01	Electrical Tape	2	roll		
MO/LUT		2	1011		
			M	ATERIALS COST III	₽
			1417	LABOR COST III	۲
				DIRECT COST III	-
				DIRECT COST III	₽
N/					
IV	MOLAVE BUILDING				
IV-EW	Electrical Works				
EW01	Pipes	4		2	A
EW0114	40mmØ IMC Pipe	1	piece	P	P
EW05	Fittings and Accessories				
EW05035	40mmØ IMC Elbow	1	piece		
EW05045	40mmØ IMC Locknut and Bushing	2	pair		
EW05055	40mmØ IMC Coupling	2	piece		
EW05157	40mmØ Weatherproof Entrance Cap	1	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090109	50mm ² THHN Wire	40	l.m.		
EW0903	TW Wires				
EW090305b	14.0mm ² TW Wire	20	l.m.		
EW13	Panel Board				
ASSY.	Main: 150AT, 2P, 230V	1	assy		
	Branches: 3 - 70AT, 2P, 230V	1	1		1

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	1 - 30AT, 2P, 230V, Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
EW16	Pipe Hangers and Supports				
EW1602	Vertical Layout of Pipe	5	I.m.		
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	1	piece		
MC/G13	All Around Sealant	1	tube		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
MC/G14	Solvent Cement, 400cc	1	can		
MC/G18	Waste Cloth	1	kg		
MC/G37	G.I. Tie Wire, Ga.16 (for Wire / Cable Pulling)	1	kg		
MC/E	(Electrical Works)				
MC/E01	Electrical Tape	2	roll		
			MA	TERIALS COST IV	₽
				LABOR COST IV	r
				DIRECT COST IV	₽
					P
V	SB OLD BUILDING				
V-SW	Site Works				
DEMV001	Chipping of Concrete Wall (Electrical Works)	3	cu.m.	P	₽
SW03	Clearing and Cleaning for Painting Preparation	47	sq.m.		
			Direct	Cost V-SW (Labor)	₽
V-CWS	CIVIL / STRUCTURAL WORKS				
CWSMA	Masonry Works				
CWSMA13	Restoration of Concrete (Electrical Works)	50	sq.m.	₽	₽
			Mate	rials Cost V-CWS	₽
				Labor Cost V-CWS	
				Direct Cost V-CWS	Ð
V-AW	Architectural Works				
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Walls)	53	sq.m.	₽	₽
			Mat	erials Cost V-AW	₽
				Labor Cost V-AW	1
				Direct Cost V-AW	₽
					r
V-EW	Electrical Works				
EW01	Pipes				
EW0101	20mmØ PVC Pipe	288	piece	₽	₽
EW0101	40mmØ PVC Pipe	20	piece		
EW0106	65mmØ PVC Pipe	3	piece		
EW0100	50mmØ IMC Pipe	1	piece		
EW04	Mouldings		F.000		
EW0403	16mm x 16mm x 2.44m Rectangular PVC Moulding	726	piece		
EW05	Fittings and Accessories				
EW05001	20mmØ PVC Elbow	198	piece		
EW05004	40mmØ PVC Elbow	4	piece		
EW05006	65mmØ PVC Elbow	2	piece		
EW05010	20mmØ PVC Adaptor	354	piece		
EW05013	40mmØ PVC Adaptor	8	piece		
EW05015	65mmØ PVC Adaptor	2	piece		
EW05022	20mmØ PVC Locknut and Bushing	354	pair		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW05025	40mmØ PVC Locknut and Bushing	8	pair		
EW05027	65mmØ PVC Locknut and Bushing	2	pair		
EW05036	50mmØ IMC Elbow	1	piece		
EW05046	50mmØ IMC Locknut and Bushing	2	pair		
EW05056	50mmØ IMC Coupling	2	piece		
EW05143	80mm ² Ø Solderless Connector with Two-Bolt	2	pair		
EW05158	50mmØ Weatherproof Entrance Cap	1	piece		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW06	Boxes and Fabricated Pullbox	-			
EW0601	50mm x 100mm PVC Utility Box	148	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	206	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102a	3.5mm ² THHN Wire	36	roll		
EW090107b	30mm ² THHN Wire	120	l.m.		
EW090111	80mm ² THHN Wire	130	l.m.		
EW0903	TW Wires				
EW090302a	3.5mm ² TW Wire	18	roll		
EW090304b	8.0mm ² TW Wire	60	l.m.		
EW090306b	22mm ² TW Wire	10	l.m.		
EW10	Wiring Devices and Other Fixtures				
EW1002	Convenience Outlet with Grounding, Two-Gang	72	piece		
EW1015	Switch with Plate and Cover, One-Gang	8	piece		
EW1016	Switch with Plate and Cover, Two-Gang	18	piece		
EW11	Lighting fixtures (Energy Efficient)				
EW11067	Surface Mounted Box Type Lighting Fixture with 1-18W Daylight LED Tube	44	set		
EW11038	300mm x 1200mm, 1 x 18W LED, Troffer Type, with Complete Accessories, Surface Mounted Type	108	set		
EW11140	Orbit Fan with Selector Switch	36	set		
EW13	Panel Board				
ASSY.	Main: 200AT, 2P, 230V	1	assy		
6456	Branches: 4 - 100 AT, 2P, 230V		_		
1981	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY.	LPPA/LPPB/LPPC/LPPD Main: 100AT, 2P, 230V Branches: 8 - 20 AT, 2P, 230V 2 - 30 AT, 2P, 230V , Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	4	assy		
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	500	l.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	8	piece		
MC/G13	All Around Sealant	12	tube		
MC/G14	Solvent Cement, 400cc	8	can		
MC/G17	Torch with Butane	2	piece		
MC/G18	Waste Cloth	7	kg		
MC/G37	G.I. Tie Wire, Ga.16 (Wire / Cable Pulling)	7	kg		
MC/E	(Electrical Works)		3		
MC/E01	Electrical Tape	10	roll		
MC/E03	Pulling Lubricant	3	can		
MC/E04	Rubber Tape	8	roll		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
			N	laterials Cost V-EW	₽
			Labor Cost V-EW		
				Direct Cost V-EW	₽
			N	ATERIAL COST V	₽
				LABOR COST V	
				DIRECT COST V	₽

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
VI	SB NEW BUILDING				
VI-SW	Site Works				
DEMV001	Chipping of Concrete Wall (Electrical Works)	3	cu.m.	₽	₽
SW03	Clearing and Cleaning for Painting Preparation	47	sq.m.		
			Direct	Cost VI-SW (Labor)	P
VI-CWS	CIVIL / STRUCTURAL WORKS				
CWSMA	Masonry Works				
CWSMA13	Restoration of Concrete (Electrical Works)	50	sq.m.	₽	₽
				rials Cost VI-CWS	₽
				Labor Cost VI-CWS	
]	Direct Cost VI-CWS	P
VI-AW	Architectural Works				
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Walls)	53	sq.m.	₽	₽
			M	aterials Cost VI-AW	₽
				Labor Cost VI-AW	
				Direct Cost VI-AW	₽
VI-EW	Electrical Works				
EW01	Pipes				
EW0101	20mmØ PVC Pipe	289	piece	₽	P
EW0104	40mmØ PVC Pipe	20	piece		
EW0106	65mmØ PVC Pipe	5	piece		
EW0115	50mmØ IMC Pipe	1	piece		
EW04	Mouldings				
EW0403	16mm x 16mm x 2.44m Rectangular PVC	659	piece		
EW05	Fittings and Accessories				
EW05001	20mmØ PVC Elbow	160	piece		
EW05004	40mmØ PVC Elbow	4	piece		
EW05006	65mmØ PVC Elbow	2	piece		
EW05010	20mmØ PVC Adaptor	750	piece		
EW05013	40mmØ PVC Adaptor	8	piece		
EW05015	65mmØ PVC Adaptor	2	piece		
EW05022	20mmØ PVC Locknut and Bushing	750	pair		
EW05025	40mmØ PVC Locknut and Bushing	8	pair		
EW05027	65mmØ PVC Locknut and Bushing	2	pair		
EW05036	50mmØ IMC Elbow	1	piece		
EW05046	50mmØ IMC Locknut and Bushing	2	pair		
	50mmØ IMC Coupling	2	piece		
EW05056		1 2	pair	1	
EW05143	80mm ² Ø Solderless Connector with Two-Bolt	2	-		
	80mm ² Ø Solderless Connector with Two-Bolt 50mmØ Weatherproof Entrance Cap Boxes and Fabricated Pullbox	1	piece		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW0602	100mm x 100mm PVC Junction Box with Cover	215	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102a	3.5mm ² THHN Wire	32	roll		
EW090107b	30mm ² THHN Wire	120	l.m.		
EW090111	80mm ² THHN Wire	210	l.m.		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW0903	TW Wires				
EW090302a	3.5mm ² TW Wire	16	roll		
EW090304b	8.0mm ² TW Wire	60	l.m.		
EW090306b	22mm ² TW Wire	15	l.m.		
EW10	Wiring Devices and Other Fixtures				
EW1002	Convenience Outlet with Grounding, Two-Gang	80	piece		
EW1015	Switch with Plate and Cover, One-Gang	8	piece		
EW1016	Switch with Plate and Cover, Two-Gang	20	piece		
EW11	Lighting fixtures (Energy Efficient)				
EW11067	Surface Mounted Box Type Lighting Fixture with 1-18W Daylight LED Tube	32	set		
EW11038	300mm x 1200mm, 1 x 18W LED, Troffer Type, with Complete Accessories, Surface Mounted Type	120	set		
EW11140	Orbit Fan with Selector Switch	40	set		
EW13	Panel Board				
ASSY	Main: 200AT, 2P, 230V	1	assy		
	Branches: 4 - 100 AT, 2P, 230V Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY	LPPA/LPPB/LPPC/LPPD	4	assy		
	Main: 100AT, 2P, 230V				
	Branches: 9 - 20 AT, 2P, 230V				
	1 - 30 AT, 2P, 230V , Spare				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	500	I.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	8	piece		
MC/G13	All Around Sealant	10	tube		
MC/G14	Solvent Cement, 400cc	8	can		
MC/G17	Torch with Butane	2	piece		
MC/G18	Waste Cloth	6	kg		
MC/G37	G.I. Tie Wire, Ga.16 (for Wire / Cable Pulling)	6	kg		
MC/E	(Electrical Works)				
MC/E01	Electrical Tape	10	roll		
MC/E03	Pulling Lubricant	3	can		
MC/E04	Rubber Tape	8	roll		
			Ma	aterials Cost VI-EW	₽
				Labor Cost VI-EW	
			 	Direct Cost VI-EW	₽
			M	ATERIAL COST VI	₽
				LABOR COST VI	
				DIRECT COST VI	₽

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
VII	KAMAGONG BUILDING				
VII-SW	Site Works				
DEMV001	Chipping of Concrete Wall (Electrical Works)	2	cu.m.	P	₽
SW03	Clearing and Cleaning for Painting Preparation	35	sq.m.		
			Direct C	₽	

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
VII-CWS	CIVIL / STRUCTURAL WORKS				
CWSMA	Masonry Works				
CWSMA13	Restoration of Concrete (Electrical Works)	34	sq.m.	₽	P
			Mate	I rials Cost VII-CWS	₽
				abor Cost VII-CWS	
				Direct Cost VII-CWS	₽
VII-AW	Architectural Works				
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Walls)	34	sq.m.	₽	₽
			М	aterials Cost VII-AW	₽
				Labor Cost VII-AW	
				Direct Cost VII-AW	₽
VII-EW	Electrical Works				
EW01	Pipes				
EW0101	20mmØ PVC Pipe	572	piece	P	₽
EW0105	50mmØ PVC Pipe	10	piece		
EW0114	40mmØ IMC Pipe	1	piece		
EW04	Mouldings				
EW0403	16mm x 16mm x 2.44m Rectangular PVC	678	piece		
EW05	Fittings and Accessories				
EW05001	20mmØ PVC Elbow	25	piece		
EW05005	50mmØ PVC Elbow	3	piece		
EW05010	20mmØ PVC Adaptor	208	piece		
EW05014	50mmØ PVC Adaptor	4	piece		
EW05022	20mmØ PVC Locknut and Bushing	208	pair		
EW05026	50mmØ PVC Locknut and Bushing	4	pair		
EW05035	40mmØ IMC Elbow	1	piece		
EW05045	40mmØ IMC Locknut and Bushing	2	pair		
EW05055	40mmØ IMC Coupling	2	piece		
EW05141	50mm ² Ø Solderless Connector with Two-Bolt	2	pair		
EW05157	40mmØ Weatherproof Entrance Cap	1	piece		
EW06	Boxes and Fabricated Pullbox				
EW0601	50mm x 100mm PVC Utility Box	42	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	62	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102a	3.5mm ² THHN Wire	14	roll		
EW090109	50mm ² THHN Wire	60	l.m.		
EW0903	TW Wires				
EW090302a	3.5mm ² TW Wire	7	roll		
EW090305b	14.0mm ² TW Wire	30	l.m.		
EW10	Wiring Devices and Other Fixtures				
EW1002	Convenience Outlet with Grounding, Two-Gang	18	piece		
EW1015	Switch with Plate and Cover, One-Gang	4	piece		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW1016	Switch with Plate and Cover, Two-Gang	8	piece		
EW11	Lighting fixtures (Energy Efficient)				
EW11067	Surface Mounted Box Type Lighting Fixture with 1-18W Daylight LED Tube	36	set		
EW11038	300mm x 1200mm, 1 x 18W LED, Troffer Type, with Complete Accessories, Surface Mounted Type	12	set		
EW11140	Orbit Fan with Selector Switch	8	set		

ITEM CODE	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
EW13	Panel Board				
ASSY.	Main: 150AT, 2P, 230V	1	assy		
6456	Branches: 10 - 20 AT, 2P, 230V				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	500	l.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	4	piece		
MC/G13	All Around Sealant	8	tube		
MC/G14	Solvent Cement, 400cc	5	can		
MC/G17	Torch with Butane	2	piece		
MC/G18	Waste Cloth	5	kg		
MC/G37	G.I. Tie Wire, Ga.16 (Wire / Cable Pulling)	5	kg		
MC/E	(Electrical Works)				
MC/E01	Electrical Tape	8	roll		
MC/E03	Pulling Lubricant	2	can		
MC/E04	Rubber Tape	5	roll		
			Ma	terials Cost VII-EW	P
				Labor Cost VII-EW	
			 	Direct Cost VII-EW	P
			M	ATERIAL COST VII	Ð
				LABOR COST VII	
				DIRECT COST VII	₽

SUMMARY

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
OGR	OTHER GENERAL REQUIREMENTS	ŧ
	TOTAL ESTIMATED COST A	₽
GR	GENERAL REQUIREMENTS	₽
I I	UPGRADING OF MAIN SERVICE ENTRANCE	
П	DAU BUILDING	
Ш	NARRA BUILDING	
IV	MOLAVE BUILDING	
V	SB OLD BUILDING	
VI	SB NEW BUILDING	
VII	KAMAGONG BUILDING	
Note:	TOTAL DIRECT COST B Overhead, Contingencies and Miscellaneous Expenses (OCM)	₽

ITEM CODE	WORK	DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
strictly enforce nealth protocol relative to the latest applicable DPWH						
Memorandum.			тс	TAL ES	STIMATED COST B	₽
			тс		L DIRECT COST A	₽
				TOTAL	ESTIMATED COST	₽
					VAT	
		TOTAL APPRO	VED BUDO	GET FO	R THE CONTRACT	₽

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- □ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); and
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;

and

- (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
 and
- \Box (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- □ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC BAC for Infrastructure and Consultancy*); and
- □ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (please see attached prescribed form required by the QC BAC for Infrastructure and Consultancy); and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
 <u>or</u> Special PCAB License in case of Joint Ventures;

and registration for the type and cost of the contract to be bid; and

(i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
 or

Original copy of Notarized Bid Securing Declaration; and

- (j) Project Requirements, which shall include the following:

- a. Organizational chart for the contract to be bid;
- b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (*please see attached prescribed form required by the QC BAC for Infrastructure and Consultancy*);
- c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

lessor/vendor for the duration of the project, as the case may be (*please* see attached prescribed form required by the QC - BAC for Infrastructure and Consultancy); and

 \Box (k) Original duly signed Omnibus Sworn Statement (OSS);

and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Additional Technical Requirements:

- Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement
- ☐ Affidavit of Undertaking for Key Personnel and Equipment (please see attached prescribed form required by the QC BAC for Infrastructure and Consultancy)
- Equipment Utilization Schedule
- Manpower Schedule
- Construction Schedule and S-Curve
- PERT-CMP
- Construction Methods

Financial Documents

- □ (1) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (please see attached prescribed form required by the QC − BAC for Infrastructure and Consultancy).

Class "B" Documents

□ (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;

<u>or</u>

duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

 \Box (o) Original of duly signed and accomplished Financial Bid Form; <u>and</u>

Other documentary requirements under RA No. 9184

- \Box (p) Original of duly signed Bid Prices in the Bill of Quantities; <u>and</u>
- □ (q) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; and
- \Box (r) Cash Flow by Quarter.

Bid Form for the Procurement of Infrastructure Projects [shall be submitted with the Bid]

BID FORM

Date : _____ Project Identification No. : _____

To: [name and address of Procuring Entity]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: [insert information];
- 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 PBDs, 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 [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ 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 Bidding Documents;
- 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.

¹ currently based on GPPB Resolution No. 09-2020

- 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 the [Name of Project] of the [Name of the Procuring Entity].
- I. 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:	

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES) CITY OF ______) S.S.

BID SECURING DECLARATION Project Identification No.: [Insert number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this _____ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE] [Insert signatory's legal capacity] Affiant

[Jurat] [Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES) CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. [Select one, delete the other:]

[*If a sole proprietorship:*] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. [Select one, delete the other:]

[*If a sole proprietorship:*] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have 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 [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am 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 [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, <u>by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;</u>
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
- 6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, BAC the head the Project and the Secretariat, of Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.
- 11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of ______ 20__ at , Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE] [Insert signatory's legal capacity] Affiant

[Jurat] [Format shall be based on the latest Rules on Notarial Practice]

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this [insert date] day of [insert month], [insert year] between [name and address of PROCURING ENTITY] (hereinafter called the "Entity") and [name and address of Contractor] (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute [name and identification number of contract] (hereinafter called "the Works") and the Entity has accepted the Bid for [contract price in words and figures in specified currency] by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- 2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz*.:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - **b.** Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. <u>Winning bidder agrees that</u> additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
- 3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature] [Insert Name and Signature]

[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]

for: for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR:

PROJECT TITLE					CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	TOTAL CONTRACT	PERCE	NTAGE	
(Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	PARTHNET IN A JV) and PERCENTAGE OF PARTICIPATION	CONTRACT VALUE AT AWARD	UE AT ESTIMATED COMPLETION		ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)
									TOTAL AMOUNT OUTSTANDING V	L (Php) OF /ORKS	

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page____of ____

LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

PROJECT TITLE & EXACT LOCATION	MAJOR SCOPE OF WORKS & DATE STARTED	NAME AND ADDRESS OF PROJECT OWNER	CONTRACT PRICE (PHP) AS AWARDED	DATE OF SCHEDULED COMPLETION	ROLE OF BIDDER <u>IN THE</u> <u>CONTRACT SOLE</u> <u>CONTRACTOR / SUB-</u> CONTRACTOR/PARTNER IN A
		£			
		TOTAL AMOUNT OF CONTRACT (Php)			

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page____of ____

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR:

PROJECT TITLE:

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE
								8

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:

PROJECT TITLE: _____

ТҮРЕ	DESCRIPTION / CAPACITY	SERIAL NO.	YEAR ACQUIRED	PRESENT LOCATION (SPECIFIC ADDRESS)	STATUS OF AVAILABILITY (OWNED/LEASED)

Page____of ____

A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT

NAME OF CONTRACTOR:

PROJECT TITLE: _____

NAME	POSITION	AGE	EDUCATIONAL ATTAINMENT	TYPE OF CONSTRUCTION EXPERIENCE	NO.OF YEARS WITH THE CONTRACTOR	PROFESSION	PRC NO.

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page____of____

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:

CURRENT ASSETS*		РНР	
(LESS) CURRENT LIABILITIES*	(LESS)	PHP	
NETWORTH		PHP	
NETWORTH x 15	x 15	РНР	
(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	РНР	
(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	РНР	
NET FINANCIAL CONTRACTING CAPACITY		РНР	

NOTES: * CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

*, *,

_____) S. S.

AFFIDAVIT OF UNDERTAKING

I,, of legal age, Filipino,[OFFICER OR REPRESENTATIVE]
with office address at after having been duly sworn to in accordance with law, hereby voluntary depose and state:
That I am duly authorized representative of the <u>IName of Bidder</u> to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.
That [Name of Bidder] bidding for the (Name of Project)
That relative to the aforementioned Project, the <u>[Name of Bidder]</u> hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.
That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.
IN WITNESS HEREOF, I have hereunto signed my name below this day of atat
AFFIANT FURTHER SAYETH NAUGHT.
Affiant

SUBSCRIBED AND SWORN TO BEFORE	ME this day of
in	

affiant o	exhibiting	to	me on_	- <u></u>			issued	at
Doc. No.	;							
Page No.	;							
Book No.	;							
Series of 2	2020				 	 		

Notary Public

