**PHILIPPINE BIDDING DOCUMENTS** 

# Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED REHABILITATION OF HB BUILDING AT SAN DIEGO ELEMENTARY SCHOOL

Project number: 22-00168

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 BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE &



CONSULTANCY

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

November 2	5, 2022	
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		In	vitation	to Bid			
No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Bu	ildings -	Small B					
1	22- 00160	Proposed Upgrading of Electrical System at Villa Verde Elementary School	Sta. Monica	1,283,171.56	30	Engineering Department	SDO + Loca School Board
2	22- 00161	Proposed Renovation of Four Storey SB Science Building at Carlos Albert High School	Santol	2,352,427.79	60	Engineering Department	SDO - Loca School Board
3	22- 00162	Proposed Construction of Additional Handwashing Facility and Rehabilitation of Comfort Rooms at Sinagtala Elementary School	San Antonio	2,523,866.59	60	Engineering Department	SDO - Loca School Board
4	22- 00163	Proposed Rehabilitation of Comfort Rooms at Camarilla Elementary School	San Roque	3,030,957.00	90	Engineering Department	SDO - Loca School Board
5	22- 00164	Proposed Rehabilitation of Comfort rooms at Balumbato Elementary School	Balumbat ¤	4,272,283.81	90	Engineering Department	SDO - Loca School Board
Б	22- 00165	Proposed Rehabilitation of Covered Court at Hobart Village HOA, Inc.	Kaligayah an	6,124,499.75	120	Engineering Department	OCM - 20% CDF
7	22- 00166	Proposed Rehabilitation of Electrical System at Bagbag Elementary School	Bagbag	7,032,679.79	120	Engineering Department	SDO - Loca School Board
8	22- 00167	Proposed Rehabilitation of Barangay Health Center and Vargas Multi-Purpose Hall	San Agustin	7,817,907.96	90	Engineering Department	OCM = 20% CDF
9	22- 00168	Proposed Rehabilitation of HB Building at San Diego Elementary School	Batasan Hills	20,251,081.84	180	Engineering Department	SDO - Loca School Board
10	22- 00169	Proposed Rehabilitation of Bautista Building, Drainage System and Construction of Comfort Room at North Fairview High School	North Fairview	20,847,208.56	180	Engineering Department	SDD - Loca School Board

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11	22- 00170	Proposed Construction of Perimeter Fence and Upgrading of Electrical System at San Bartolome Elementary School	San Bartolome	21,320,673.64	180	Engineering Department	SDO - Local School Board
12	22- 00171	Proposed Construction of Electrical Room and Upgrading of Electrical System at Don Alejandro Roces Sr. Science Technology High School	Obrero	24,253,074.13	180	Engineering Department	SDO - Local School Board
13	22- 00099B	Proposed Construction of Handwashing Facility and Rehabilitation of Comfort Room at Manuel Roxas Senior High School	Paligsaha n	1,703,245.31	60	Engineering Department	Special Education Fund
14	22- 001028	Proposed Rehabilitation of Fire Station	Project 6	1,963,027.52	60	Engineering Department	Engineering Department

### Buildings – Medium A

15	22- 00172	Proposed Rehabilitation of Mathay and Quezon Building of Novaliches High School	San Agustin	44,286,369.31	180	Engineering Department	SDO + Local School Board
16	22- 00173	Proposed Rehabilitation of San Bartolome High School	San Bartolome	50,033,897.53	180	Engineering Department	SDO - Local School Board

## Roads - Small B

17	22- 00174	Proposed Rehabilitation of Drainage System at Ismael Mathay Senior High School	Sanganda an	1,455,721.93	90	Engineering Department	SDO - Local School Board
18	22- 00175	Proposed Construction of Drainage System at Maligaya High School	Pasong Putik	7,926,563.46	60	Engineering Department	SDO - Local School Board
19	22- 00176	Proposed Rehabilitation of Road and Drainage at Sto. Niño Street and Sto. Niño Alleys	San Antonio	29,371.118.45	210	Engineering Department	OCM - 20% CDF

#### Roads – Medium A

20	22- 00177	Proposed Rehabilitation of Road and Drainage at Fortune and Paxton Streets	Fairview	40,768,478.70	270	Engineering Department	OCM - 20% CDF
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 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.

- 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).
- 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.
- 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 28 November 2022 (Monday) from given address and website/s below and upon payment of a nonrefundable 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)
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 Scoretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

 The QC- BAC- INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference<sup>1</sup> on December 6, 2022 at 9:00 AM at 2<sup>nd</sup> 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

 Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before December 19, 2022 – 9:00 AM. Late bids shall not be accepted.

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.

- All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
- Bid opening shall be on December 19, 2022 10:00 AM at 2<sup>nd</sup> 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.
- 11. For further information, please refer to:

ATTY. DOMINIC B. GARCIA OIC, Procurement Department 2<sup>nd</sup> 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: <u>https://quezoneity.gov.ph/public-notices/procurement/</u>

By:



## 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 REHABILITATION OF HB BUILDING AT SAN DIEGO ELEMENTARY SCHOOL, with Project Identification Number 22-00168.

[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 2022 in the amount of Twenty Million Two Hundred Fifty-One Thousand Eighty-One Pesos and 84/100 Ctvs. (P 20,251,081.84).
- 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 **December 6, 2022, 9:00 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 major categories of work.	s shall refer to con	tracts which have the same
7.1	Subcontracting is not allowed.		
10.3	No additional contractor license of	or permit is require	ed
	In addition, eligible bidders shall	qualify or comply	with the following:
	1. Bidders with valid Philippine C	Contractors Accred	itation Board (PCAB)
	Туре		
	Building - Small B		
10.4	The minimum work experience following:	e requirements fo	or key personnel are the
		neral Experience	Relevant Experience
	1 Project-in-Charge/ Project Engineer	3 years	3 years
	1 General Foreman	3 years	3 years
	1 Trade Engineer/Leadman for civil works	3 years	3 years
	1 Trade Engineer/Leadman for electrical works	3 years	3 years
	1 Safety Officer	3 years	3 years
	1 DPWH duly accredited Materials Engineer	3 years	3 years
10.5	In addition, the bidder must notarized stating that the foregoin for the project until its completion	ng personnel shall n. Please see attac	l perform work exclusively hed bid forms.
10.5	The minimum major equipment re	-	-
	Equipment	Capacity	Number of Units
	Dump Truck		1
	In addition, the bidder must notarized stating that the forego the project until its completion. H	ing equipment she	all be used exclusively for

12	[Insert Value Engineering clause if allowed.]
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:
	<ul> <li>a) The amount of not less than Php 405,021.64 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</li> </ul>
	b) The amount of not less than Php 1,012,554.09 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 180 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: [list here the required site investigation reports.]
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 5<sup>TH</sup>, 8<sup>TH</sup>, 7<sup>TH</sup> Floors QC Civic Center Building 'B' Telephons Nos. 8988-4242 Locad 8538



PROJECT TITLE : PROPOSED REHABILITATION OF HE BUILDING AT SAN DIEGO ELEMENTARTY SCHOOL / LOCATION BARANGAY BATASAN HILLS, DISTRICT 2, QUEZON CITY/

### TECHNICAL SPECIFICATIONS

#### GR. 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 shell be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and focation, to record the exect progress of the works. The photographs shall be retained and will become the property of the Government.
- E. Site ventication / inspection shall be conducted to validate the scope of works. No exital compensation and extension of time shall be given due to negligence or inadventence.
- 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 mmmum requirements of the standards and codes.
- H. Mobilization and Demobilization (if applicable)
  - 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.
  - 2 Demobilization shall include all activities and costs for transportation of personnal, equipment, and supplies not anymore required within the construction site including the disassempty, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmankike manner by competent workman. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Temporary Fachilies and Utilities
  - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types

- Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations
- 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.
- Temporary roadways shall be constructed and mamtained to sustain loads to be carned on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed property.
- K Adequate construction salety and health protection shall be provided at all times during the execution of work to both workers and property.
  - A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
  - 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.
  - The tocation 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.
  - 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 shell 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 dems in the Contract. Removal end/or demolition of existing structures shall be done in accordance to sefety procedures.

C All excevations shall be made to grace as indicated in the plans. Whenever water is encountered in the excevation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.

The Contractor shall notify the Engineer sufficiently in advance of the beginning of any excavation so that cross-sectional elevations and measurements may be taken on the undisturbed ground. The natural ground adjacent to the structure shall not be disturbed without permission of the Engineer

Trenches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Plans or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown.

The elevations of the bottoms of footings, as shown on the Plans, shall be considered as approximate only and the Engineer may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary, to secure a satisfactory foundation.

Boulders, logs, and other objectionable materials encountered in excavation shall be removed.

After each excavation is completed, the Contractor shall notify the Engineer to that effect and no footing, bedding material or pipe culvert shall be placed until the Engineer has approved the depth of excevation and the character of the foundation material.

D. All excevated materials, so far as suitable, shall be utilized as backfill. The surplus materials shall be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excevated materials shall be deposited at any time so as to endanger the partly finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted by wetting, tamping and rolling.

E. Soil Poisoning. There are two methods usually adopted in soil poisoning which are as follows:

1. Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Trenches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter apert and applied with Liquid Termicide Concentrate working solution at the rate of 8 liters per linear meter.

2. Drenching. When soil show termite infestation, this method shall be applied. The building area shall be thoroughly drenched with Liquid Termicide Concentrate working solution at the rate of 24 fiters per square meter.

#### CWS. CIVIL / STRUCTURAL WORKS

#### CWSMA. MASONRY WORKS

Masonry Units (Concrete Hollow Blocks):

 a) 100mm thick for all interior walls and 150mm thick for all exterior walls unless otherwise indicated.

b) Use 400 psi for non-load bearing blocks and 700 psi for load bearing, blocks where required

c) Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans Provide stiffener columns and initel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height and other considerations.

Sand:

S-1, washed, clean and greenish in color.

Mortar.

One part Portland cement and two parts send and water but not more than three parts sand and water

Reinforcement

The concrete hollow blocks shall be reinforced with 10mm diameter deformed bar, spaced not more than 0.8m on centers, both ways.

#### 7 Plaster bond

The mixture of cement plaster for concrete hollow block wall finishes indicated in the drawings shall be one part Portland coment and three parts sand.

8 Floor Topping Preparation for Tilework.

One part Portland Cement and two parts sand and water but not more than three parts sand and water

#### CWSMP MOISTURE PROTECTION

#### 9 WATERPROOFING

a) Cementitious waterproofing powder mix shall be cement-based, apgregate-type, heavy duty, waterproof coating for reinforced concrete surface and masonry exposed to water. Additive binders shall be of special formulation of acrylic polymers and modifiers in liquid form used as additive with cement-based powder mix that improves adhesion and mechanical properties. Water shall be clean, clear and potable.

b) Concrete surface to be applied with waterproofing shall be structurally sound, clean and free of dirt, loose mortar particles, paint films, oil, protective coals, efflorescence, laitance, etc. All defects shall be properly corrected and carefully formed to provide a smooth surface that is free of marks and properly cured prior to application works.

c) Furnish all tabor, materials, equipment, plant and other facilities required to complete all waterproofing work as shown on the drawings and herein specified. All applications shall be strictly performed by an approved waterproofing Contractor.

d) Test waterprop/ed area by sevenly-two (72) hours and check for any seepeges.

Note. Thickness should be as per Manufecturer's Specifications and Installation depending on the areas to be applied with.

#### AW. ARCHITECTURAL WORKS

#### F. FLOOR FINISHES

1. Ceramic Tiles. Unglazed caramic tiles shall be hard, dense tiles of homogeneous composition. Its color and characteristics area determined by the materials used in the body, the method of manufacture and the thermal treatment.

Tile work shall not be started until roughing-ins for sanitary/plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage

2. Vinyl Floor Tiles. Vinyl tiles shall be of first grade quality. Fully homogeneous, flexible, resilient, and resistant to alkali moisture, grease and oil. The color and design pattern of the vinyl tile shall be uniformly distributed throughout the thickness of the tile Vinyl tiles shall be 2mm thick.

Installation of the trie shall not commence until the work of other trades, including painting has been completed. The Contractor shall carafully examine all surfaces over which the files are to be set. Floor surfaces that are to receive vinyil tile shall be clean thoroughly, dry smooth, firm and sound and tree from oil, paint, wax, din and any other damaging material.

 3.
 Cement Floor Finish. Mortar topping shall be one part Portland cameni and three parts
 fine
 aggregate
 by
 loose
 volume

Finish topping shall be pure Portland cement properly graded, mixed with water to approved consistency and plasticity. Where required to be colored cement floor finish, red or green oxide powder shall be premixed with Portland cement complying with finish topping requirements and the desired color intensity. Cement floor finish floor hardener shall be premixed as required and applied in accordance with the manufacturer's instruction manual.

 4
 Pebble Washout Finish. Pebble shall be well graded stones sized ranging from

 #4
 to
 #10
 rounded
 specie.

All peoble washout finish shall be done by men experienced and qualified to do this particular type of trade. The Contractor shall submit at least two samples for each type of peoble washout finish to the Engineer/Architect for approval showing its color fexture and design.

Peoble washout finish mix shall consist of one part Portland cement and two parts peoble measured by volume or a proportion equivalent to 1:2. Mixtures shall be in approved containers to ensure that the specified materials are controlled and accurately measured. Mixtures measured by shovel or shovel counts will not be permitted. Unless specified otherwise pebble washout mix shall be in the proportion by volume in approved mixing machines or mortar boxes. The aggregates introduced and mixed in such a manner that the materials will be uniformly distributed throughout the mass. A sufficient amount of water shall be added gradually and the mass further mixed until a mortar plasticity necessary for the purpose intended is obtained. Mortar boxes, pans etc. where mixtures are mixed shall be keep clean and free from debris or direct mortar.

- 5. Granite Tiles
- Vinyi Rolt
- 7. Anti-Microbial Tiles
- B. Hardwood Tiles

#### G. WALL FINISHES AND PARTITIONING.

t. Ceramic Titles. Glazed tiles and truns shall have an Impervious face of ceramic materials fused onto the body of the tiles and truns. The glazed surface may be clear white or colored depending on the color scheme approved by the Engineer. Standard glazes may be bright (glossy), semi-matte (less glosey), matte (duil) or orystelline (motiled and textured: good resistance to abrasion).

Tite work shall not be started until roughing-ins for sanitary/plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage

 Cement Plaster Finish, Mortar mixture for brown cost shall be freshly prepared and uniformity mixed in the proportion by volume of one part. Portland cement three (3) parts sand and one fourth (1/4) part hydrated lime.

Finish coat shall be pure Portland cement property graded conforming to the requirements and mixed with water to approved consistency and plasticity.

3. Double-Wall Fiber Cament Board Drywall on Netal Studs. Wall panel shall be two (2) 6 mm thick fiber cement boards, properly cut and prepared for installation and shall conform to the requirements of the Plans.

Metal Studs. Walt framing shall consist of 0.6 mm thick atuminum metal studs and tracks.

Fasteners and Connection detail. All construction and connections shall be secured with rivets, screws and drive pins, and shall conform to local and standard codes. Connections shall also be secured with gypsum putty and gypsum tape

#### 4. Toilet Partition.

## H CEILING FINISHES

1. Fiber Cement Board on Metal Frame. The cailing materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular specially trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking

2. **Moisture-Resistant Gypsum Board on Metal Frame.** The cailing materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular specialty trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets pipes and other works extending through materials ahall be sealed with caulking.

3 **Gypsum Board on Metal Frame.** The ceiling materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular speciality trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.

4 Acoustic Board Celling on T-Runner Frame. The calling materials to be used shall conform to the samples approved by the City Engineer. All calling works shall be done by men experienced and qualified to do this particular spacialty trade. The installation of calling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the tinish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.

#### 5. SIAD Soffit-

# L CARPENTRY WORKS

Lumber of different species for the various parts of the structure shall be well-seasoned, sawn straight, sundred or kiln-dried and free from defects such as loose unsound knots,

pitch pockets, sepwood, crecks and other imperfections impairing its strength, durability and appearance.

Rough lumber for framing and siding boards shall be an-dried or sundried such that its moisture content shall not exceed 22 percent. Dressed lumber for exterior and interior finishing. for doors and windows millwork, cabinet work and flooring boards shall be kindred and shall not have a moisture content in excess of 14 percent at the time of installation in the structure.

Phyboard shall be good grade and made of taminated wood strips of uniform width and thickness bounded together with water resistant resiniglus. The laminated core shall be finished both faces with select grade Tanguile or red Leuan veneers not less than 2 mm thick similarly bonded to the core. The phyboard of not less than 19 mm thick shall be free from defects such as split in veneer, buckling or warping.

Plywood shall conform to the requirements of the Philippine Trade Standards 631-02. Thickness of a single layer laminae shall not be less than 2 mm. The laminae shall be superimposed in layers with grains crossing at right angles in successive layers to produce statioeas. The face veneers shall be bonded with water resistant resin glue, hot pressed and pressure treated. Ordinary Tanguile or red Lauan plywood with good quality face veneers, 6 mm thick shall be used for double walting and celling not exposed to moisture; waterproof or manne plywood shall be used for ceiling exposed to moisture such as at toilets and eaves and celling to be finished with acrytex.

Giue shall be from water resistant regins which, upon hardening, shall not dissolve nor lose its bond or holding power even when soaked with water for extended period.

Nails screw, bolts, and straps shall be provided and used where suitable for fixing carpanity and joinery works. All fasteners shall be brand new and edequate size to ensure rigidity of connections.

- Neils of adequate size shall be steel wire, diamond-pointed, ribbed shank and blight finish.
- Screws of adequate size shall be aluminum or brass plated steel with slotted head.
- Lag screws of adequate size, for encharing heavy timber framing in concrete or masonry, shall be galvanized steel.
- 4. Bolts and nuts shall be of steel having a yield point of not less than 245 Mpa. Bolts shall have square heads and provided with standard flat steel washers and hexagonal nuts. Threads shall conform to American coarse thread series. Threaded portion shall be long enough so that the nut can be tightened against the bolted members without any need for blocking. The bolt's threaded end shall be finished smooth for ease of engaging and turning the rut.
- 5 Wrought iron straps or angles, when required in conjunction with bolls or legiscrews to provide proper anchorage, shall be of the shape and size shown on the Plans.

#### J. PAINTING WORKS

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.

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

#### 4 Paint Schedule.

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.
  - 1 Coat primer, 2 coats latex paint finish.
- e) Slab Soffit
  - i 1 coel primer, 2 coels latex paint finish
- f) Metal / Steel Surfaces
  - i 1 coat primer, 2 coats epoxy enamel finish

5. Surface Proparation 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 shell be filled with patching compound and smoothed off to match adjoining surfaces.

Concrete and masching 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. Hartime cracks and unevenness shall be patched and sealed with approved putty or patching compound. After all defacts are corrected apply the first 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:

- Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces
- 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 hol or cold.
- d Allow appropriate venulation during application and drying period.
- 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 4. This procedure changes the required properties of the paint

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

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

 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; mesonry well shall be treated with Neutralizer.

 All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately projected so that these are not stained with paint and other painting meterials
 projected so that these are not stained with paint and other painting works.

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

#### S/PW. SANITARY AND PLUMBING WORKS

K 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).

- L Supply, installation and testing of the following.
  - Potable weter supply system completes in all respects including but not limited to submittals, shop drawings, piping, water maters, valves, bibbs, insulation, all eccessories required for complete and operational of the system.
  - 2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, velves, cleanout, drains, etc. Complete and operational.
  - Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittats, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

M Workmanship and installation methods shell conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.

N. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.

O Install equipment in strict accordance with manufacturers written recommendations.

P. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.

Q In selecting makes and types of equipment, the Contractor shall ascertain those facilities for proper maintenance, repair and replacement are provided.

R. Where the Contractor process to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.

S. Equipment catalogue and manufacturer's specifications must be submitted for exemination and details shell be submitted for approval before any equipment is to be ordered.

T. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.

U. All meterials, equipment, components and eccessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.

V Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.

W. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.

X. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.

Y. Cleaning and flushing shall be carried out in sections as the installation becomes completed

Z. The Contractor shall carry out hydrautic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactority within the requirements of this Specification and local regulations.

AA. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.

88 Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also, test shall be carried out prior to false ceilings and other finishes are installed.

CC. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure. It shall be isotated during the pipework lest then that section of pipework or equipment shall be re-tested at the appropriate test pressure.

DD. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.

EE. Drainage pipe shall be tested by filling the pipe with 3*m*, of water higher than the test section and weit for 15 min, then check for leakage at every joints.

FF. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise proework and litting for three floors/storeys required for testing.

GG. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.

HH. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and etrasses within limits and under conditions indicated according to ASCE/SEL7.

II. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchore, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.

JJ. Install lateral bracing with pipe hangers and supports to prevent swaying.

KK Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, tranges, and strainers, NPS 2-1/2 (DN 85) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed: faster inserts to forms and install reinforcing bars through openings at top of inserts.

LL. Instati hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment

MM. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

#### EW. ELECTRICAL WORKS

#### NN. 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 equare boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughingin work of this project.
- 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.
- 3 All works throughout shall be executed in the best practice in a workmanike 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.
- 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, ctamps, 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 elarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.
- Upon completion of the electrical construction work, the contractor + shall provide all tast 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.

#### OO. WIRES AND WIRING DEVICES

- 1 This item shall consist of the furnishing end installation of ell 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.
- 2. 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 cytindocal form and shall be centrally located inside the insulation.
- 3 Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dwt and moisture. In drawing wires into conduits, sufficient stack 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.
- 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 nat 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 winning shall be made mechanically and electrically secured by approved splicing.

devices and taped with rubber and PVC tapes in a manner which will make their insulation as that of the conductor.

- 8. All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for Ilush mounting shall be installed with all (our edgas in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plater filling shall not be permitted. Plates installed in well locations shall be gasketed.
- When more than one switch or device is indicated in a single location, gang plate shall be used.

# PP. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS.

- FC. This item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgeer and 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:
    - a. One (1) Air-filled Interrupter Switch, 2-position (open-close) sistalled in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrice! 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.
    - iii. Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.
    - One 1) set of high voltage potheads or 3-conductor cables or three single conductor cables.
    - Lightning arresters shall be installed at the high voltage cubicle if required.

items (i) and (a) 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 menual tap changer only when the transformer is de-energized. Tap changing under load is acceptable if transformer has been so designed.

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

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 Vottage 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.
  - 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 top 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 Cricuit Breakors. 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 cricuit breakers shall be drawout or molded case as required. The cricuit 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 brench circuit designation. The circuit breaker shall be so 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 busbace of sufficient size, braced to resist attowable 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.
- Grounding System. All non-current carrying metallic parts like conduite 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 chms

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 duor 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 acounting 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.

Mam 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 be of the common trip type having a single operating handle. For 50-ampere breaker or less it may consist of single-pole breaker parmanently assembled at the factory into a multi-pole unit.

 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 from construction furnished with trims for flush or surface mounting as required.

QQ 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).

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

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

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

UU When the tests and inspections have been completed, a tabel 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.

### VV. 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.
    - Indeer Dry and Clean Locations. NEMA, Type 1.
    - ii. Outdoor Locations: NEMA, Type 3R
    - Krichen and Wash-Down Areas: NEMA, Type 4X, stamlass steel.
    - iv Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids. NEMA, Type 12

- Outdoor Locations Subject to Dust, Falling Dirl, and Dripping Noncorresive Liquids. NEMA, Type 5R.
- Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
- Hinged Front Cover. Entire front trim hinged to box and with standard door within hinged trim cover.
- d. Skirl for Surface-Mounted Panelboards: Same gauge and finish as panelboard front with flanges for attachment to panelboard, wat, and ceiling or floor.
- Gutter Extension and Barrier: Same gage and finish as panelboard enclosure, integral with enclosure body. Amange to isolate individual panel sections
- f Finishas.
  - Panels and Trim: Steel and galvanized steel, factory finished mmediately after cleaning and pretreating with manufacturer's standard two-coal, baked-on finish consisting of prime coat and thermosetting topcoat.
  - Back Boxes: Galvanized steel Same finish as panels and trim.
  - 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
- Incoming Mains Location. Top or Bottom.
- Phase, Neutral, and Ground Buses.
  - Material: Hard-drawn copper, 98 percent conductivity.
  - b. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
  - Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UE listed as sudable for nonlinear loads

#### MECH. MECHANICAL WORKS

- WW. All Conditioning and Refrigeration System.
  - 5. This item shall consist of furnishing and installation of air conditioning, refrigeration and ventiletion systems, inclusive of necessary electrical connections. Cuctworks grilles, pipes, and condensate drains and all other necessary accessories ready for service in accordance with the Plans and Specifications.
  - 6. The types, sizes, capacities, quantities and power characteristics of the compressor, evaporator, condenser, chilled water pump and condenser water pump shall be specified or as shown on the Plans.
  - 7. The air conditioning system shall be entirely automatic in operation and shall not require the presence of an attendant except for periodic inspection (or lubrication. Alt equipment and materials shall be inspected upon delivery and shall be tested after installation. Prong shall not be buried, concealed or insulated until it has been inspected, tested and approved. Walls, floors and other parts of the structure and equipment damaged by the Contractor in the prosecution of the work shall be replaced as shown on the Plans.

#### XX. WATER-PUMPING SYSTEM

- This item shall consist of furnishing and installation of water pumping system, inclusive of all piping and pipe fitting connections, valves, controls, electrical wirings, tanks and all eccessories ready for service in accordance with the approved Plans and Specifications
- Exposed piping shall be provided with concrete saddle or steel clamps or hangers to secure them firmly to the structures.

Pipe threads shall be lubricated by white lead, red lead. Tellon or other approved lubrication before tightening.

Piping supports shall be placed at 3m intervals or less

# YY. AUTOMATIC WATER SPRINKLER SYSTEM

- This item shall consist of furnishing and installation of automatic water sprinkler system, inclusive of all piping and pipe fitting connections, valves, controls, electrical wiring connection, and all accessories ready for service in accordance with the approved Plans and Specifications.
- System operation and maintenance chart shall be submitted to the End User upon completion of the Contract. This shall include the locations of control valves and care of the new equipment.
- 3 Marked instructions and identification sign boards: These sign boards shall be made of #14 gauge B.I. sheet with baked enamel finish paint and letter instruction are shown on the Plane. Additional sign boards as may be required and not specified herewith shall be furnished at no extra cost. Sign boards shall be mounted on the equipment or well nearest the equipment for easy identification and reading. Paints shall be basically gloss fire red and white.
- ZZ. ELECTRIC ELEVATOR
- AAA. ELECTRIC DUMBWAITER
- 888. OXYGEN: NITROUS OXIDE, VACUUM AND FUEL GAS SYSTEM.
- CCC. HEATING SYSTEM
- DDD. BOILER

EEE. 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).

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

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

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

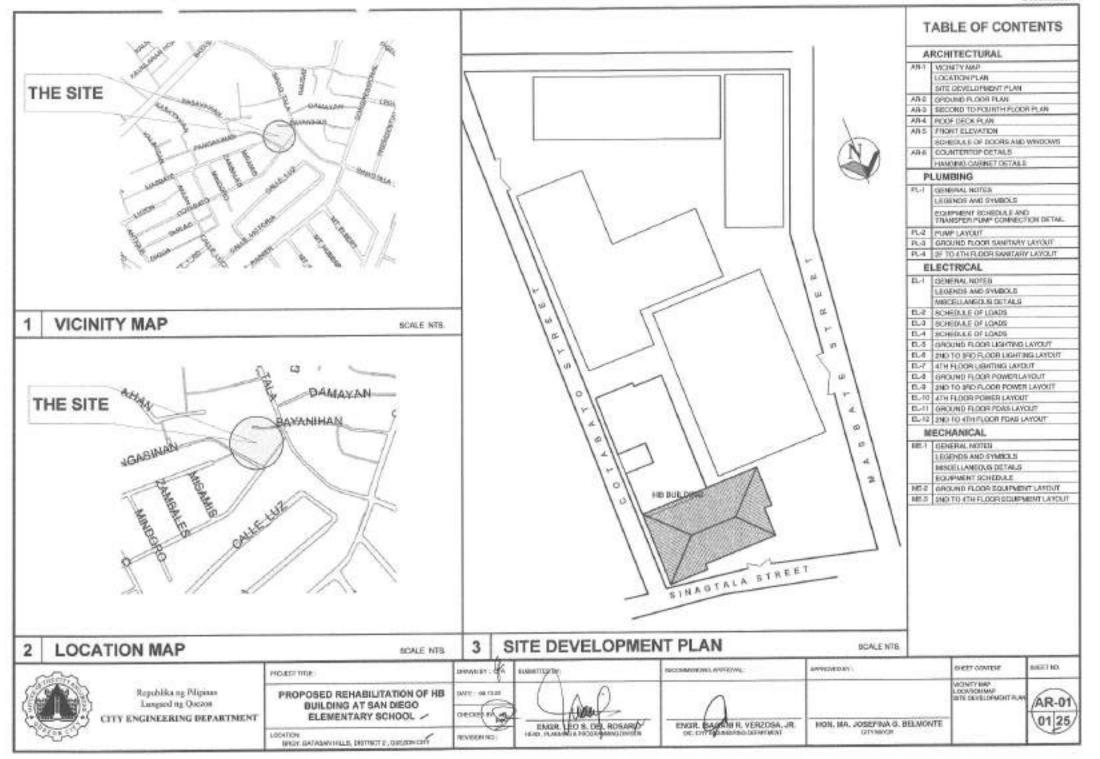
III. When the tests and inspections have been completed, a tabel shall be attached to all devices tested. The tabel shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

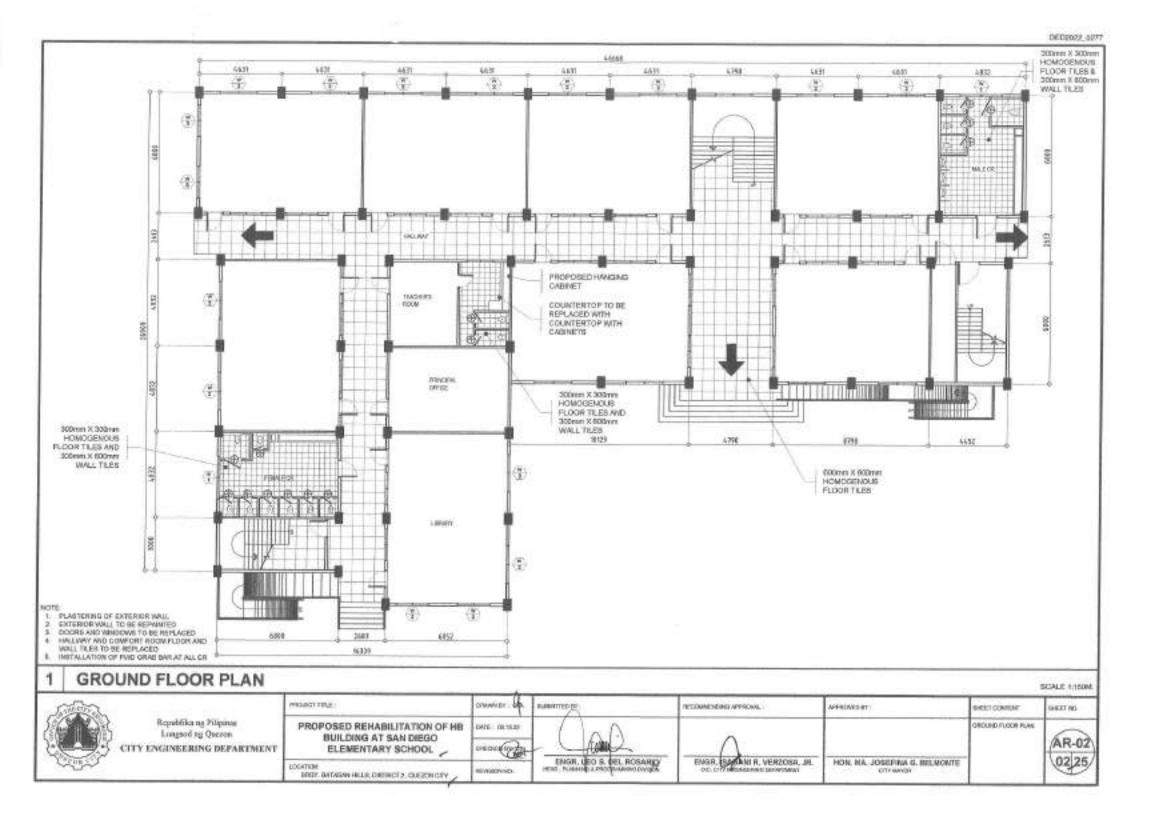
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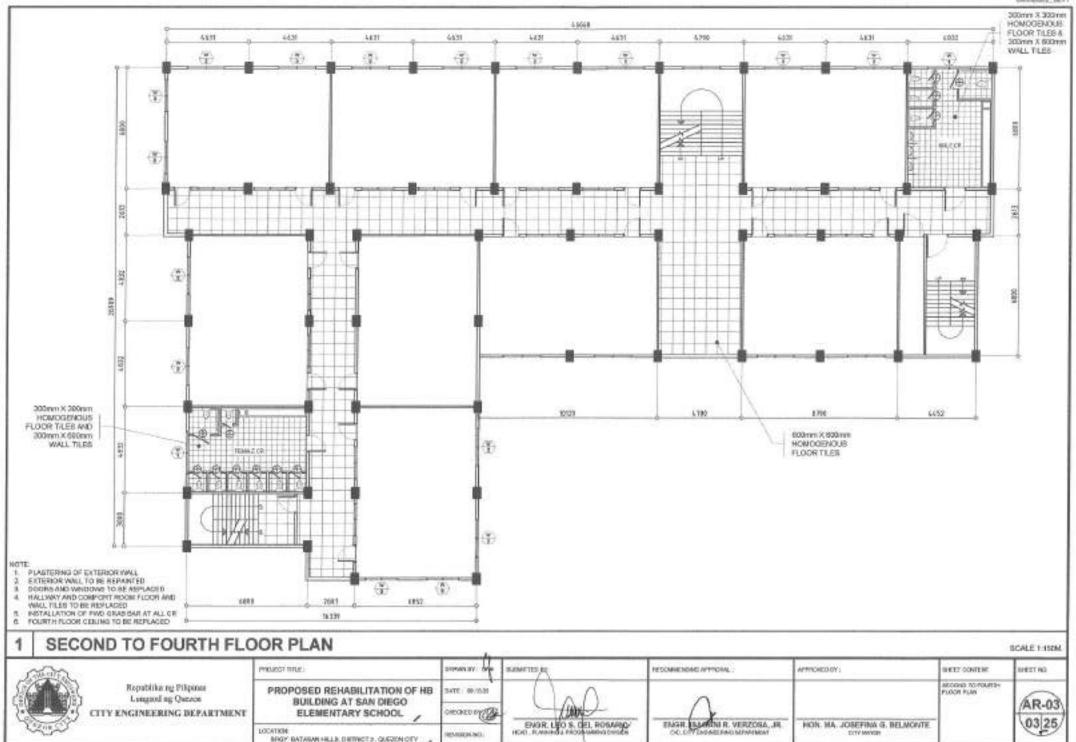
JOCELYN AMAONG Planning and Programming Division

# 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.]

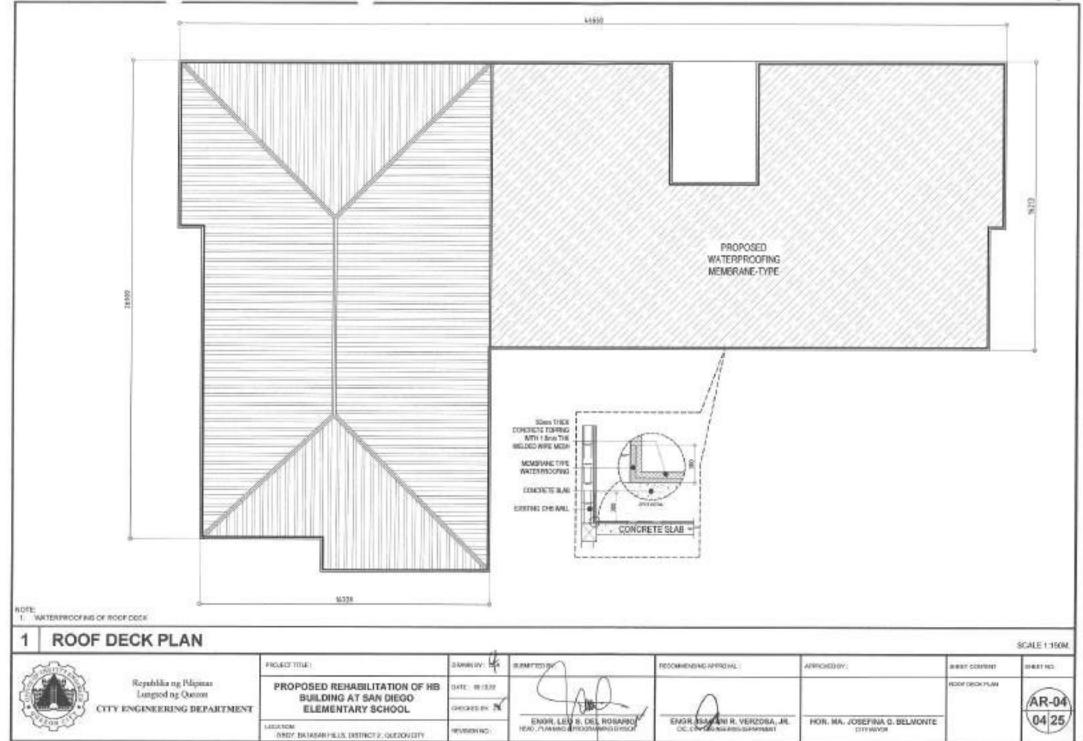


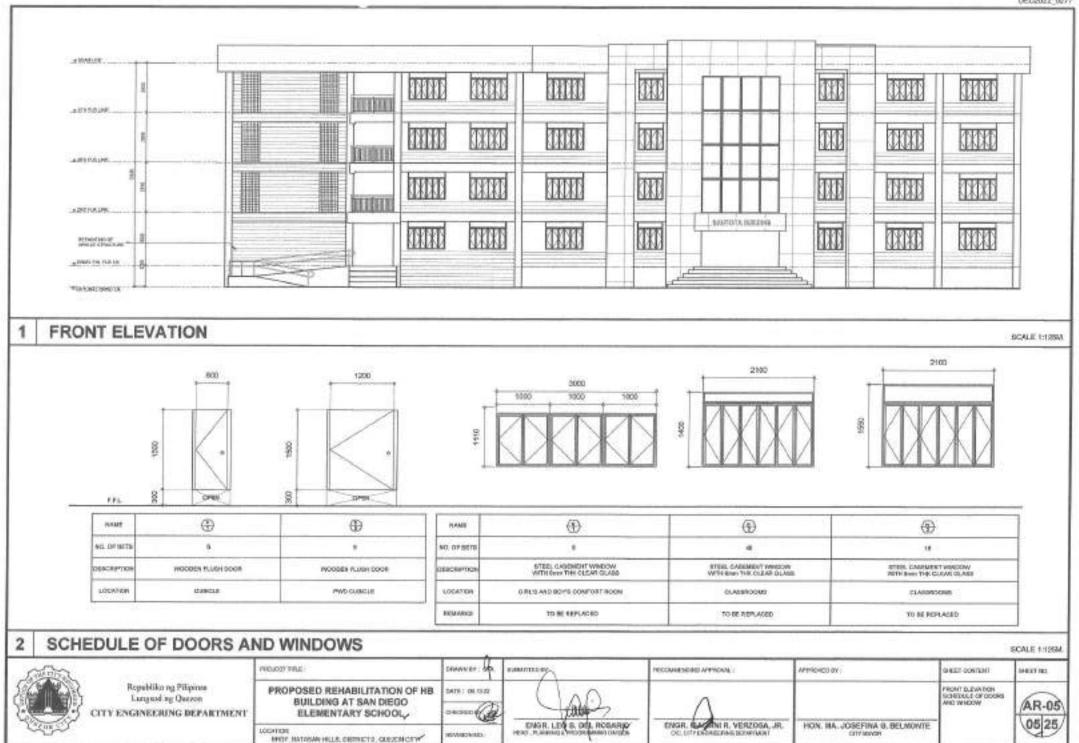




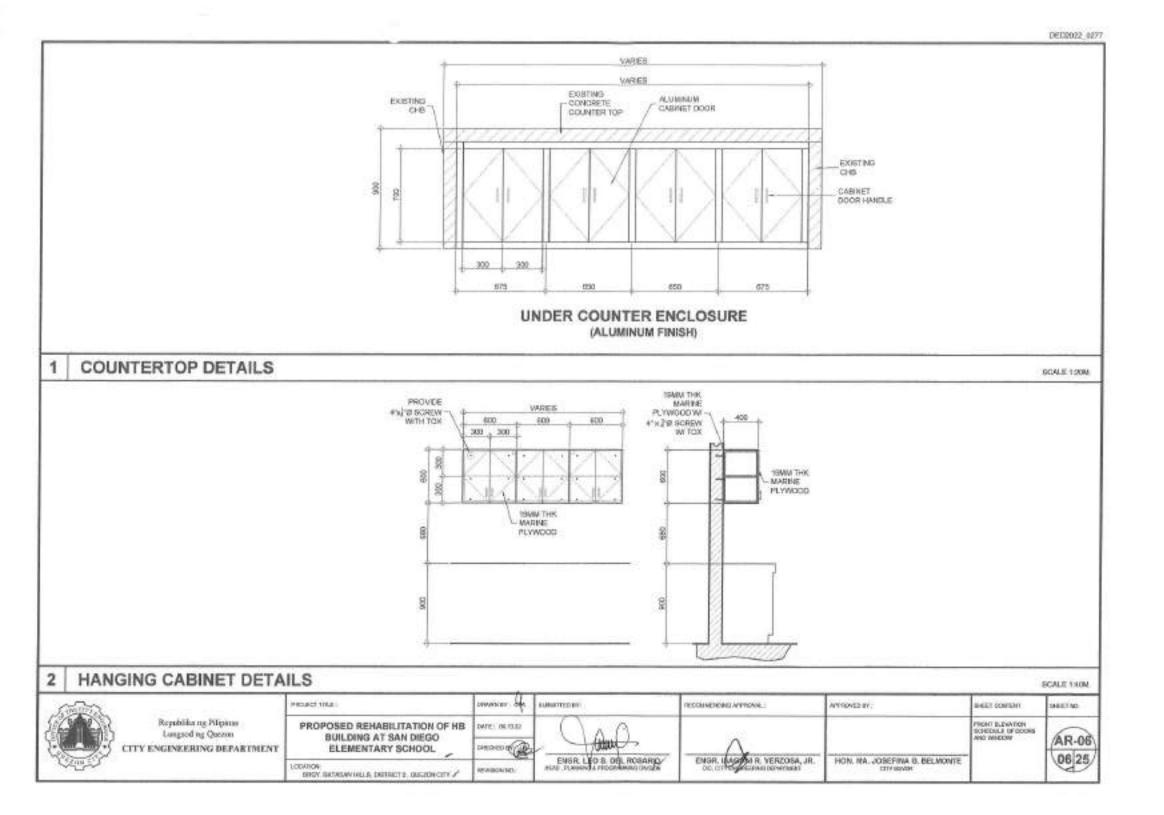
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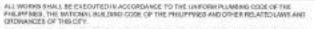




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2 ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSION, RELATED TO THE ACTIVITIES BEING UNDERTAKEN

S ALS WORKS SHALL BE GOORDINATED WITH THE RESPECTIVE TRACES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES

4. ALL NOCESSARY PERMITS SHALL BE SECURED AND TURNED-OVER TO THE CITY

 ALL DRAMMOR AND IPACPECATIONS INVALUES CONSISTENT, VIEWEINSD BY THE CONTINUETOR AND STRULTIMMEDIATELY OF PERDIMMED IF DISCREPANCY (SS) POUND INFREEM

I ALL DIMENSIONS, ELEVATIONS AND REFERENCES SHALL BE VERIFIED WITH THE ACTUM, CONSISTON PHICH TO EXECUTION

A BHOP DRAWINGS \$194.1 BE PROVIDED AS NEGESLARY PRIOR TO THE EXECUTION.

8. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE DESCRIPTION WITH THE PRESIDED OF ALL PARTIES INVOLVE, BURKLY SHALLISE DOCUMENTED PROPERTY.

9. ALL FIPES AND LAY-OUT ARE ONLY DRADRAMMATIC, ACTUAL LAYOUT OF PIPES INDIFFETIMES, UNLESS OTHERWISE REGURED, SHALL BE FROMERLY CONDUCLED.

IN INCOMPENDING ALLOWED TO BE EMBEDDED IN STRUCTURE, MEMBERS, UNLESS OTHERWISE APPROVED

 ALL PRER, PITTERDR, EGASPMENT AND POST CHE, REAL, MARS THE INITERNAL STANDARDS AS PER MATERIAL SPECIFICATION WITH THE BEAL OF APPROVAL BY THE DEPARTMENT OF TRADE AND INDUSTRY.

 ALL, PEED, FITTINGE, EDUPINEMET AND FORTURES INVALUE IN ACCORDANCE TO INVALVACUARITIS SPECIFICATION AND INSTRUCTION.

13 BUPPORT AND HANGENS SHALL BE PROVIDED ADUDRDINGLY.

 ALL EGLIPHENT'S FRITURES SHALL BE ENVIRONMENTAL FREMELY (SUCH AS WATER REFCIENT FORTHER)

15. WRITERLINE

15.1 WATERLINE SHALL RE FPR 74PE

152: ONTE VALVE SHALL BE PPR TYPE OR APPROVED EQUIVILENT.

15.3. WATER METER SHALL BE ANY BRAND AND ACCEPTED BY THE INITER UTUTY COMPANIES.

154 ALL WATER PAPER EXPOSED TO WEATHER DOAD/TORE HALL BE WADE OF ILL

HE ETORMORAN

18.1. ALL STORM DRAMAGE SLOPE SHALL BE WITHINDUM TO PR.

112. STORE DRAMAGE USE SIZERIO AND BLOW SHALL BE INCLIDENDED ABOVE SHALL BE REINFORCED CONDITIETE PRE.

17. SEMERLME

- 17.1. ALL SLOPES FOR SANITARY SHALL DONFORM A 2N SLOPE.
- 17.2 SOIL WASTE, 5 YONT PIPE BHALLINE POLYMMIL CHEORDELPHD OR THE APPROVED EQUAL.
- 17.3 CLEAN CUTS MUST BE PROVIDED FOR SAVETARY VERTICAL PIPES AND EASY HERIZONDAL PARE INVEL BE INSURDED WITH A CLEAN OUT AT ITS UPPEN TERMINAL EVERY CHARGE 41 DRECTON AND EVERY 2004 OF A ETRAGENT PIPE. CLEANOUTS GATE BE OWTTED IF THE SPECTIVE LENGTH IS LESS THAN 12M.

IT 4. ALL DRAMAGE POLTURE SHALL BE SUPPLIED WITH APPROPRIATE VEHTLATION.

IB. POCTURES

- 19.1. WATER GLOBETS SHALL BE FREE STANDING TOLLET COMBINITION ROLING/RONT BOTTOM CUTLET SPROBLUCKTICK OR WARH DOWN ROW. WIT IN DITERTOR REAR BOLF AND GLOBE COUPLED TANK WITH COVER CORPLETE WITH RTTING AND MOLETING ACCESSIONES AND WRITER EFRCENT.
- 18.2 LAWATDRY REAL BE VITTEOUS CHINA, WALL HUNG WITH REAR OVERFLOW, POCKET HANGER WITH ATTEORAL CHINA REACKIT, COMPLETE INTERSTINGERS STEEL, LAWAR TIPS HEAVY DUTY TRAVERT, DIPPLY, PHPLS, -PTRUP AND POLYMERA ACCENDENCES.
- 18.3. URMAN, SHALL BE HYTHEOUS CHINA, WALL HUNG WASH-OUT LIRIAM, WITH DOTTAIDED SHELDS: AND WERENAL FLUXH SPRENDER, COMDEAUED WALL HUNGER PODETS, MAN TOTADED COMPETENT, FUTTION AND MOUNT PROVIDED INCLUDING URMAN, ANY TECH COMPETENT FUTTION AND MOUNT PROVIDED INCLUDING URMAN, ANY TECH COMPETENT, FUTTION AND MOUNT PROVIDED INCLUDING URMAN, ANY TECH COMPETENT, FUTTION AND MOUNT PROVIDED INCLUDING URMAN, ANY TECH COMPETENT FUTTION.

15.4. GRAB BARS SHALL BE PROVIDED ON ALL PND TOLLET AND SHALL BE MADE OF THEIR, AN ETHILIDES STEEL, PIPE PROVIDED WITH SAFETY GRAF AND INCUMTING PLANCE.

- 18.5. PLOCH DRIEHE SHALL BE MADE OF STAIRLESS BEDIEVE TYPE, MEADURING 10048 5 10048 AND PROVEDUD INTWICE TADABASE OTA INLESS STRANGE, SZRAUDED METAL LATH TYPE.
- WAL TIGLET PAPER HOLDER HALL BE VITREDIX CHEVA WALL INCIDITED COLOR SHALL RECOVERE WITH THE ADJACENT FOUTURE AND FACING TILES.
- 10.7. GOAR HOLDER SHALL BE VITREOUS CHINA WALL NOUNTED, COLOR BHALL RECORDLE WITH THE ADJACENT PORTURE AND FACING TEES.
- 18.4. PAUCET BRAIL BE MADE OF STAINLESS STEEL LEVER TYPE HEAVY OUTY FOR INTERIOR USE.

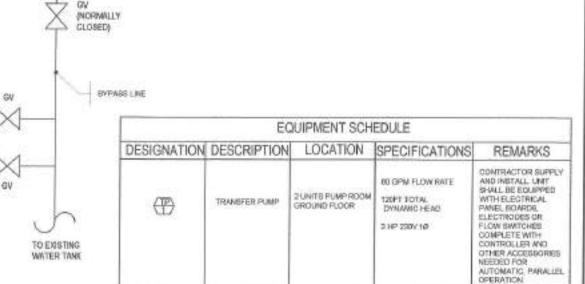
18.8. HOSE BREESHALL BE MADE OF STANKESS STEEL LEVER TYPE HEAVY DUTY.

18. KLICHEN SINK FAUCET SHALL BE MADE OF STAIN, EDB STEEL LEVER TYPE HEAVY BUTY GOOSE NECK TYPE WITH COMPLETE ACCERDICATES.

BHOY BATASAN HELS, DISTRICT 0, OLESCHIOTY

	10	GEN REDGAL FIRE	10	POCCH LINNIN	
	No.	IDATE VALVE	ca	CLEANOUT	
	Z	CHERK WALVE	đ	KITCHENISNK	
	VIC .	WATER CLOBET		GMEASE TRAP	
	FALL	FAUGET			
	HB	HORE \$858			
LEGEND	S AND	SYMBOLS			SCALE NTE.
	V	S C			
FROM		£			
	LEGEND		NAC WATER CLOBET	Image: Construction of the second	ON     DATE VALUE     CO     CLEANING       ON     CHERK VALUE     Image: Contraction of the contrac

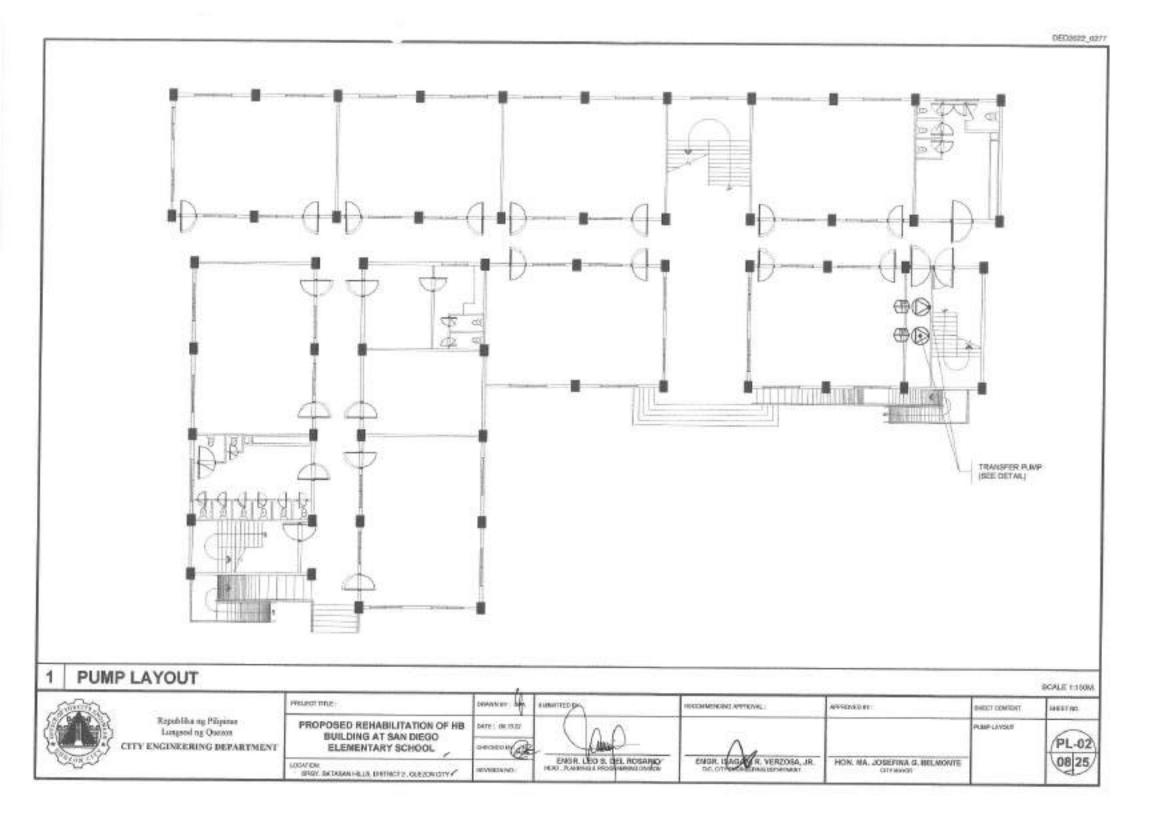
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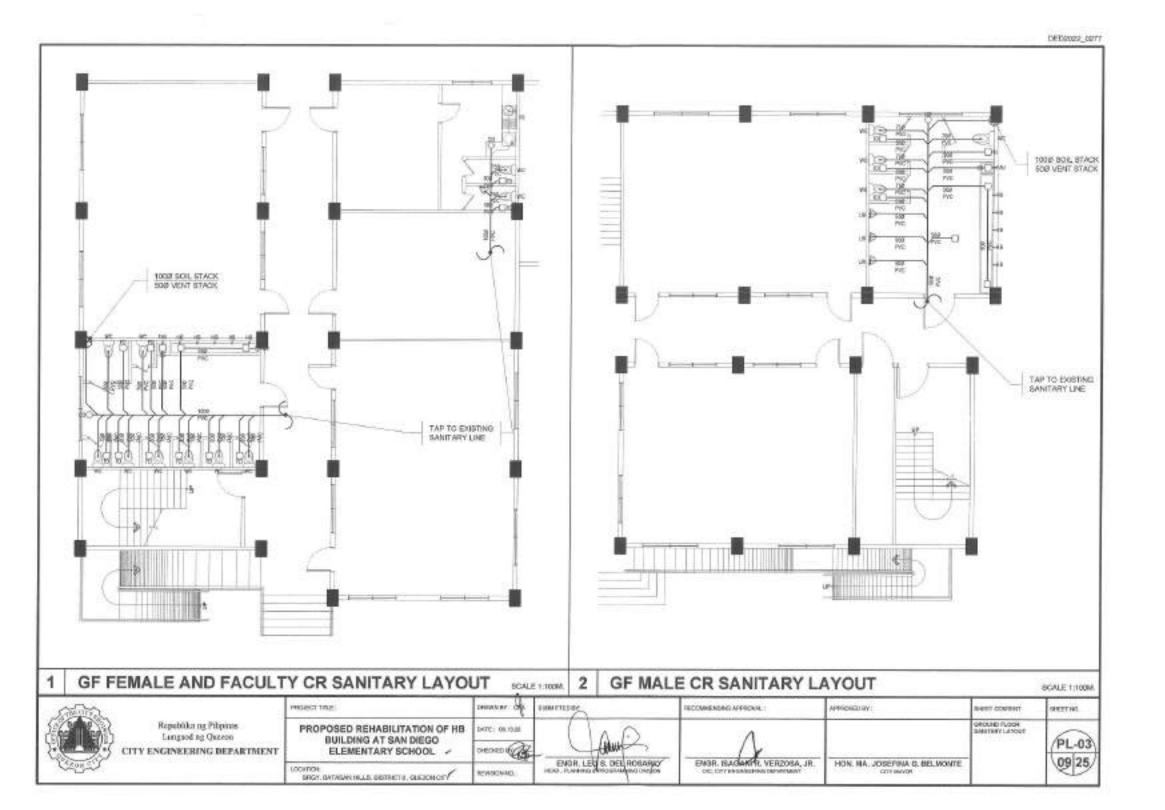


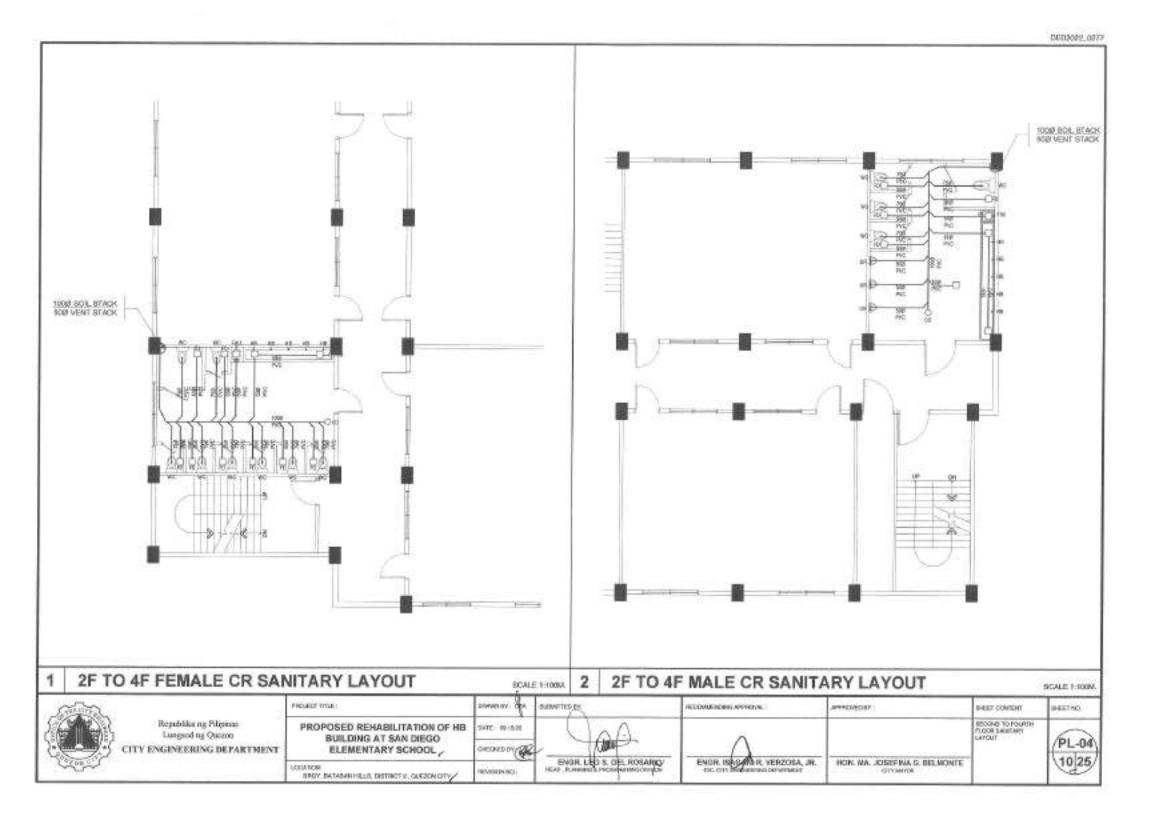
#### **GENERAL NOTES** EQUIPMENT SCHEDULE AND TRANSFER PUMP CONNECTION DETAIL 2 SCALE NTS. SCALE NTS. PROJECT TIME: HAMBERT : ILBOATTED BY NOOMBRIDG APPROVAL APPROVED BY SOBULT CONTENT. B-RETAIL Republiko ng Pilipinas PROPOSED REHABILITATION OF HB 13ATE | 80 15:25 Lungsod ng Quarren BUILDING AT SAN DIEGO PL-01 DRIDER CITY ENGINEERING DEPARTMENT ELEMENTARY SCHOOL 07 25 ENGR. HALLAND R. VERZOBA, JR. ENGR. LED S. DEL ROSARD, HON, MA, JOSEFINA & BELMONTE 10007098 HEAD, TANKING & RECEIPTING MANY BY DEC OC SEVER DITY MARCIN HENRICH NO. INFO DEDAPTORIAL

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BCALE NTS.

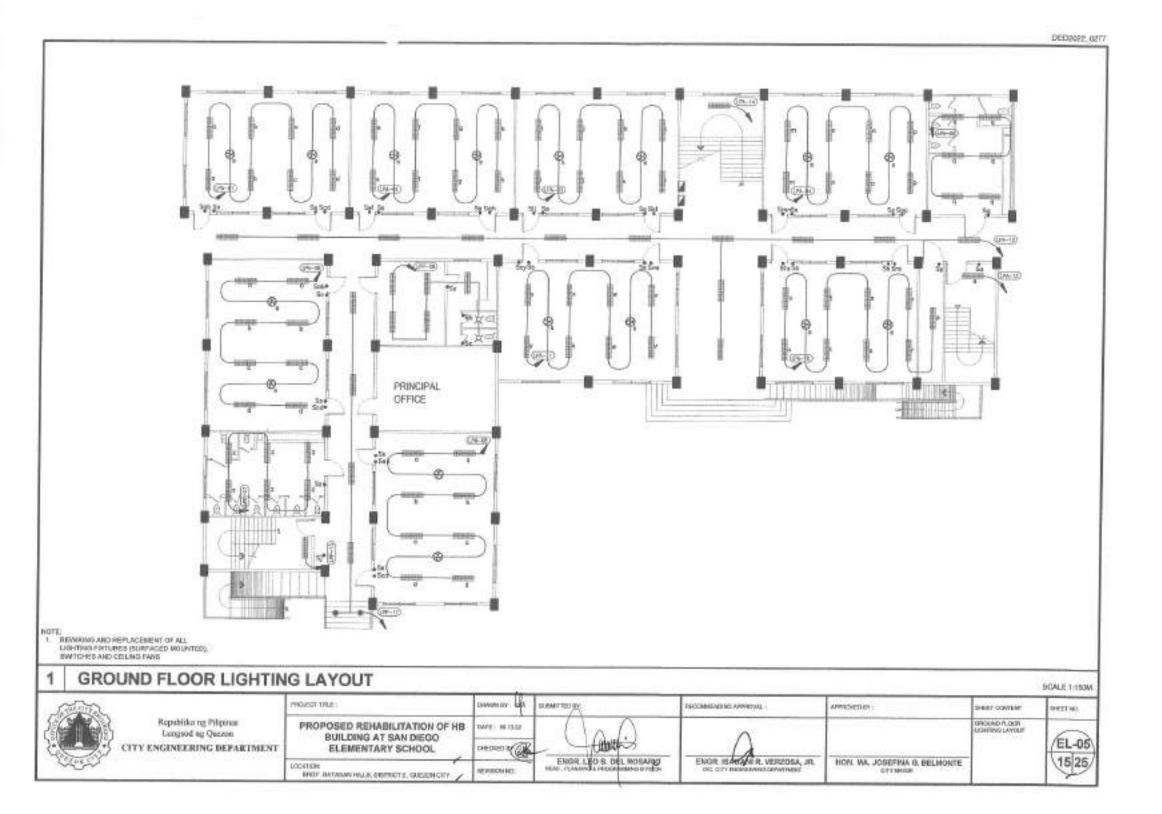
									PRINCIPAL 24
GENERAL NOTES FOR THREE-PHASE SYSTEM		12.7. THE GROUND AF	SHETNINGS BHALL	NOT BE MORE THAN S CHE		LISENOS	AND: STIMPOLS		
<ol> <li>ALL WORKS SHALL BE DISCUTED IN ACCORDANCE TO THE LATEST EDITION ELECTRICAL DODE, THE UPPINE BLOCTRONICS CODE, THE NATIONAL BARL PHILIPPINES AND OTHER NELATED LAWS AND OPDINALIZES OF THIS OTHER</li> </ol>	DHD CODE OF THE		EIGHT'S FOR WAL	L MOUNTED DEMCES SIM ABOVE FLOOR PROBH			CETING PARE, HARD (YER HYPADJERI)	24 SHITE	INVERT POLY
<ol> <li>ALL WORKD SHALL BE SUPERVISED BY A REGISTERE PROFESSIONAL RE REING UNCERTANCE.</li> </ol>	LATED TO THE ACTIVITIES		IN ABOVE WORKER INCTS - 1400 MM	UD COUNTER.			2004# x 12004# LEHTHE RITIRE #TH 1-18 DALEHT LED TIME, REFTLE SURRICED MOLATE THE		THE PALE
<ol> <li>ALL WORKS INALL BE COORDINATED WITH THE RESPECTIVE TRADER SIT DURING EXECUTION OF ACTIVITIES.</li> </ol>	TO AVED CONFLICTS	E EMERADACY LISHT	- 2080 ABD	INE FLOOR EMERGENCY		0	catery roat	gobs series	THESE POLE
4.444 HECEBERRY PERMITS BUILL BE BEOUND AND TURNED-OVER TO TH	e cnv.	ARE NOT INDICATED C	ALL RE VINENEVE DN PLANE	RINECERBARYTO FACILITY	TE WRE PUBLING EVEN IF THESE		TUTIO ZMIHOMOS	De	
5 ALL DRAWINGS AND EPEDIFICATIONS SHALL BE CORRECTLY REIVENDED SHALL INVESTIGATELY BE INFORMED IF DISCRETIVELY (ES) FOLIAD HERGH	BY THE CONTRACTOR AND	15.2. FOR EACH SPAR CONDUIT TERMINATES SHALL BE 150MM 1/150	D TO HOMM OCTA	IT IN PANELBOARD, PROV VOIDIA, BOX ABOVE CELLIN	DE ORE 20MILIO AMEREN SIRPTY 10. MINIMUM INZE OF PALINCE	52	WITH SHOULD, THO-DANG EMDINERY LIGHT	(F)(B) anorae	E PALL STATES
<ul> <li>A ALL DIMENSIONS, BLEVATIONS AND REFERENCES, SHALL BE VEH FROM CONDITION PRIOR TO EXECUTION.</li> </ul>	TH THE ACTUAL			E BOLT-ON THRE WITH HITS	Development of an arrival and	0.94.9			
T SHOP ONWINGS SHALL BE PROVIDED AS NEDESSARY PRICE TO THE EX	ECL/THOR				SHEET POWOUR DOATED GAGE	2 L	EGENDS AND SYM	BOLS	BCALE NTS
5. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE THE PRESENCE OF ALL PARTIES INVOLVE! RESULTS SHALL BE DOCUMENT	E SRECIFICATIONS WITH TED PROPERLY	15.4 FEEDER AND BRO AND TAGGED TO WOR HURBER AND PANEL	CATE CLEARLY T	NEUCTORS IN CASE TRU HE ELECTRICAL CHANNET	O'S ENALL BE GROUPED, BONDED PRETICE BUCH AS CIRCUIT	174040			DUALE HIS
B ALL PIPES AND LAYOUT ARE ONLY DRIGRAMMATIC, ACTUAL LAYOUT OF PLUBLESS OTHERWORE REDURED, INVALL BE PROPERTY CONCERNED.	PED AND FITTWERK	155 REFER TO MEDIN	ANICAL PLUMEN		DRAWINGE FOR PATTINGS AND	=O=	-œœ-	Der	and all
10. NO PREE SHALL RE ALLOWED TO RE EMBEDDED IN STRUCTURAL MONS APPROVED	IDRS, UNLESS COHERIVISE	SHOVIN UNDER THEIR	R RESPECTIVE GO	CTIONS	NOED AS SPECIFIED AND OR	times.			
15. ALL FIRER, RITTINGR, EGREPHENT AND FACTURES BHALL BE INSTALLS ED MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.	IN ACCORDANCE TO	15.6. ALL MATERIALS T QUALITY, BRAND NEW LOCKTION AND PURK	VA\$ SPECIFIED IT	THE EQUIPMENT TO BE INS TIMUST BE APPROVED TWO	TALLED SHALL BE OF THE BEST 2 FOR THE RARTICULAR	-			
12 SUPPORTS AND HARRING SHALL BE PROVIDED ACCORDINGLY.		HE INSTRUCTION OF ALSO AND FIRE DETECTION AS	LINEY SYNTEM OF	DECEMATA SYSTEM, GLOB	ED CHICUT TELEVISION SYSTEM			1	
13 ALL EQUIPMENTS AND PETUTER SHALL BE ENVIRONMENTAL PREMILY.				FER TO WIRE SCHOOLLE A	SIMECATED ON PLANE.	<u></u>		Elifert -	
14 INSTALLATION OF SERVICE OVERADO 34.1. THE TYPE OF SERVICE EXTRANCE SHALL BE THREE PHOTE. THRE HERTZ, SIRV AC NOMINAL	C-MINE PLUG GROUNDLOD	VOICE DATA SKETEM	(0 TVPE OF LONO - 2000 0 PV - 2000 0 PVC - 1000 0 PVC		8	BPOT	DETAIL OF CONCULTINUM AND BOX	EKHONO BADUS DE	T.M.
14.2. THE SERVICE ENTRANCE COLORNELL IN PROPERLY UNDER WITH THE PROJECTING ELECTRICAL CODE 14.3. THE WARK OVERCLIPHONT PROTECTION DEVICE INAUL BE OF THEIR NEWS IN INSULTINGPROOF ENGLIPHONE.	NOED IN ACCORDANCE	181. ALL EMBEDDED O	CINCUITS SHALL D	E PVC CONDUITS AND FO	R DIPONED WIFTH, LATION SHALL TENS AND/ON CONDUCT HANGER		Tallito		
15. INSTALLATION OF LIGHTING AND POWER SYSTEM (5.1. ALL UGHTING AND CONVENTION OF CUTULT ORCUTTO SHALL BE 3.3 COPPER WRITE LAL, WRITE AND CONVENTION OF CUTULT ORCUTTO SHALL BE 3.3 COPPER WRITE ALL WRITE AND CONVENTION OF CUTULT ORCUTTO CODED AS FOR PHONE A. RED PHONE A. RED PHONE INCL.	41 06 55 30 MM 8.	CATV DUFLET CATV DUFLET DATA OUTLET CABINETS	- 900 MW A8 + 390 MW A8 - 300MA A80 - 1400 MM ABOVE		L BE AT FOLLOWS				
GROUND GREEN		NUT WIDTH OF THE WERET SUFFACE STOOL		mA		3.07.	ener to obuit		
15.2. ALL EMBEDGED BRANCH CIRCUITS SHALL BE INVO CONDUCTS AND F INSTALLATION BRAIL AS INC SOFTWITTED BY COMPLET CLAMPS EVENY T CONDUCT INVISES SUPPORTS CARDY 1500 VALUETERS.	OR EXPOSED OF MERKETERS AND/OR	WP TO INCLUDING		GA 16 PAINTED WITH MINUTE EPOKY AND TOPOS		246258.028	CUTLINGUTHERLING BONER	O, RAGEWAY TERBINASON	FOR SHEET HE VA
IS 3. CONDUCTS IN NO CASE SHALL NOT BE INDRE THAN THE EQUITATION BENDS IN ANY ONE RUN, ALL CONDUCT BEADS 3-HILL BE RELOWED BY BENDERS, MINIBURG BEADNES MUST BE IN ADCORDANCE TO THE	LUBING HYDRAULK!		INT NOT OVER 450 P INT NOT OVER 150	2.30 GA.14 PAINTED WITH PRIMITE EPIDER AND TOPO 2.000 GA.12 PAINTED WITH	NETAL DAT NETAL		and Stress	58.	
15.4 ALL POINTE OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE FOR 20 Y		OVER JUS NW		FRIMER EPOXY AND TOPO GA 10 PAINTED WITH PEMER EPOXY AND TOPOL	METAL			₩₩ -Ψ=	-
15.5 PROVIDE GROUND ANULT CURRENT INTERRUPTER CROSSET BRANK TOF OT THE PLAN	ER FOR LOADS MARKED	HILL THE COMMUNICAT	поманокна не	ENATANCE SHALL WIT ERC	EEU 2 CHINES			3- 000	HUT COR
THE ALL METALLIC CONDUCTS, SWITCHES, LIGHTING FORTURES, PAVELSO NON-CURRENT CARTRING METAL INVETTS SHALL BE INCOME.Y CIRCUMD			AS BRECIPIED IT	HE EQUIMENT TO BE INST WUST BE APPROVED TYPE	ALLED BHALL BE OF THE BEST FOR THE PARTICULAR		FOR EXPOSED OF WEEK COOPLET	NOUT	
GENERAL NOTES					SCALE NTS.	3 M	ISCELLANEOUS DE		BCALE NTS.
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Landing								and the second se	-
Republika ng Pilipinas Liagand ng Quenn CTTY ENGINEERING DEPARTMENT	PROPOSED REHABILITA BUILDING AT SAN I ELEMENTARY SCI	DIEGO	08.13.22 co.0 (2)	( nA		)		GEMERAL NOTES LISENDE IND TRABUS RISES LLARRISES CITALE	" (EL-01

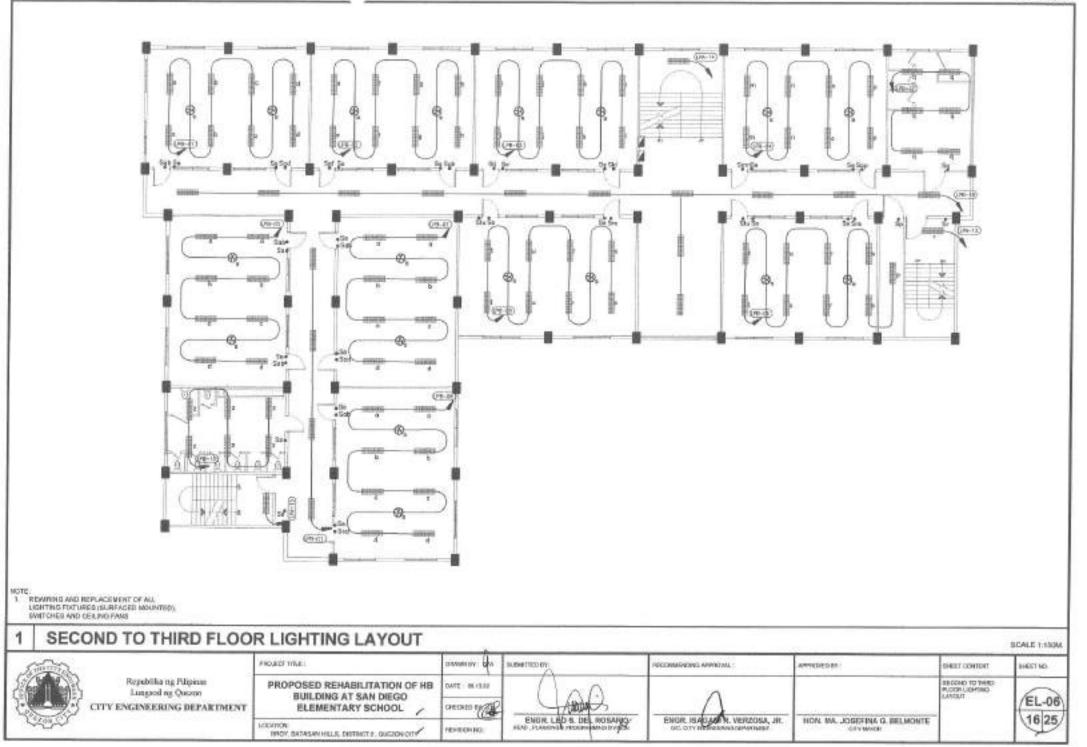
2.22	UND FLOOR	00000	2,222																				
	EXISTING (FOR REP	LACIEM	ENT)		PERE	1040		-	\$125.0	nr.													
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1	8-Ubrblic RUIMES 5-ORDE FUND	214	782		1	1	-	- 78	3-2 Aven <sup>1</sup> 1659 (101999) 560; 1): Marce <sup>1</sup> Tel Milling Will;	N PC ADLONG	1	SECC	OND / THIRD FLOOP	R TYPECA	AL.								
1	8-United intrages 3-ORET rives	253	780	111				- 18	2-2.5mm* 918 C29958 888 1-52mm* 19 25530 987	B PC MADE	1	LPB/	LPC- EXISTING ( FO	R REPLA	CEME	NT)							
1	8-UGFING FORUMES 1-ORT TURN	230	1.780	-	-	:114		18	2-3 hours take convex ever	R PC WADE		CHT. MI	LOAD DESCRIPTION	VOLTS	- 101	.45	APERE L	GAD		-		SIZE OF	
4	1-URITING FORUMES	733	Rett	-	-	3.08		20	1-LEWP TH WRITER SHE 2-LEWP THE 20MON HE 1-LEWP THE DOUBLE	H PE WATE		1	LOOKING FUTURE	210	-	AB	90	CA.	30	AT	1-1.5em <sup>2</sup> Tem COTION		ONDUTS
8	2-SHRT MYG 8-URHTRIC FORUMEN	120	- 508	-	319			30	3-35rist Dill DOVER MIL	N PR BASH	-	1	5-0401 FAIS E-UCHTER FEDERS	258	708	394	-	-		10	1-2.5ml 14 GODIE #	WK .	1311 m
	2-06405 FA4 9-02-010 Y01.403	136		-	-	-			1-55mm <sup>4</sup> To (ECON) tall 2-55mm <sup>4</sup> Tota (2005) and	N Prit addised		-	3-080F FAIS A-UOVING FINISHEE	-	778	-5.94	-			30	1-2.5++1 18 080348 8	PE	
_	3-WEIT FAIG		300	-	1.0	-		30	5-35mm <sup>2</sup> 78 GROUD WH				2-0837 686	104	308	-		3.84		-10	2-1.5mm <sup>1</sup> THE CROWD W	14	
7	3-069837.060	\$30	800	281				23	2-55m/ DHH COVER WE 5-JUHP* 14 CROWD WE	H PVC HSLIDHS		4	E-URIT-INE 5-URIT-INE	231	741	1		2.01	-	10	1-3.5mm <sup>2</sup> W BIOMS W	RE RISER	1.129#G
a	8-10/86 721088	330	100	145				- 70	2-3.5mm <sup>2</sup> Non ODPER WE r-1.5mm <sup>2</sup> To OPDER WE	# NS WERE		5	8-00 PMC 107/805 2-04021 0MG	170	760		216		-	79	1-32mm <sup>2</sup> Test contra- 1-32mm <sup>2</sup> Te industri e	NIC HINE H	t ki Ded
9	3-10/ING TATURES	1,12	80		-	5.30		2	2-13m2 Toni USPTON 1680	IN INC HENCOME			8-DO RNC FOT/RCE 3-SREF FME	.130	710		214			20	2-35mm <sup>2</sup> tells correte 1-5.5mm <sup>2</sup> Tells correte	PE NYER	040342
D	8-content rooment 1-center room	7.58	150			1.09	-	1.38	1-32mm <sup>2</sup> 18 (19036) 988 2-35mm <sup>2</sup> 7486 (00900) 988 1-35mm <sup>2</sup> 78 (49038) 988	IN PIC WOLDPIE		7	P-I (PITE: POTIANI) T-DIGIT (MS	270	780	411				-29	1-5.5ree tee corres	and of the sa	LA CINC
11	B-USITIES PORTARS 3-ORDE DAS	2,21	- 191	1	3.04		-		2-13-m <sup>2</sup> THE COMPLEME 1-35-m <sup>2</sup> THE COMPLEME	18 FIC MOULTER		8	E-LICHTINE THIPSREE	250	78	2.04				30	3-55mer tek contac e	IN A PC IS	M.ONE
12	S-LOKING FIRTHER	230	401	1	2.01		-	27	2-25x8" THB COVER BIE 1-25x8" THB COVER BIE 1-25x8" TH CROWD SHE	IN THE NOUTINE			3-ORDE TANK B-URLENAS POTDATS	250	10		-	5.54			1-3.5m/ N CROUD II 3-3.5m/ 14H COVER		LA TANK
13	8-00/780 01003	120	60	1.74				70	2-15ref feet construction 1-15ee* to construction	H PTT MEASURE	-	10	3-9907 Red	IN	800				-	30	1-13mm to choose at 1-13mm then capture	H	
14	B-LEWING COTINES	830	6.0	176		-		20	3-33ms' Term soprist with	IN PAL BOLLING		1	10-Doued version		0.70			29)	-	.20	1-3.5ml/ te impolés et	AL.	10
5	B-10-BHE (PELIE)	130	-40		-	01		20	3-32mm <sup>2</sup> Tel SPOUND NONE 3-32mm <sup>3</sup> Tel R COPPER ANN	# PYE KOULING		=	5-LOPINE (COME) 5-LOPINE (COME)	1.51	210		1.89			- 20	7-33mm <sup>2</sup> Iresi Carregi 1-35mm <sup>2</sup> TR Shoare et	PE .	5092
-				-	-		-	30	2-23mm <sup>2</sup> TH GROUPD HAT 2-23mm <sup>2</sup> THIS COVERT WITE	N PVC IKODONC		1	2-(36A/87 FM	130	80		241	-	_	.29	1-33mm <sup>3</sup> Far ground as	et .	
	B-LOINE PRIVET	330	62	-	1	1.94	_	- 20	1-Almert Th GROUP MIL				1-URENC (000823 1-089630 646	130	800	18.5				28	3-33mm <sup>1</sup> 1988, CONTR. 1-35mm <sup>2</sup> TV \$780,60 W	RE IN PAE INT RE	MORG .
12	5-LIB DVC FITTARS (DASTAL)	: 430	880	-	1.38	-		20	2-3 her? the cover and 1-2 her? 16 GROUG WIT	B PIC HORODIC		14	248	130	-				-	2	-		-
18	In Column Linearch Stream()	7.0	321		120			20	2-33min the control with 1-33min to control with	H PE MADE				-	8,208		1.72	11.72					
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			15,955	82	10-42	16.30							<ul> <li>1782+147798.</li> <li>1558 AMPERES</li> </ul>					INNERS	1068		LUED GASE CIRCUIT		
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LPD - EXISTING ( FOR REPLACEMENT)           ORT         AMPENE LOAD         AMPENE LOAD         SEE OF AT         SEE OF SEE OF S-Date / The Control of S-Date /	UND NUC SPECTOR VIC SPECTOR V
MS         LOND DESCRIPTION         Y0L78         VA         AV         MS         MS         MS         MS         CONDUCTS         CONDUCTS         PPA - EXISTING ( FOR REPLACEMENT )           1         S-LIMPERC VITARES         233         Val	NREE COND. SPID: ARC PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC
1         8-Userer, retrainers         200         100         100         2-Userer         1000000000000000000000000000000000000	NREE COND. SPID: ARC PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC
2       3Liber / Index       1-Liber / Ind	NREE COND. SPID: ARC PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC 00 905 PL Damat PC
2-start from	2712 MIC III Down PC MIC MIC III Down PC
	STOL ARC IN DIMA PC USU NHE IN DIMA PC UNIT NEE UNIT
3-400 Mm       3-400 Mm       3-400 Mm       4-400 Mm <th< td=""><td>UTEL PRE III (Stand PAC UND SHE STEL PIE ID SOund INC.</td></th<>	UTEL PRE III (Stand PAC UND SHE STEL PIE ID SOund INC.
3         3-dot Fan         1-0         1-0         2-dot Fan         1-0 best Fan	CAD NOT THE DI Street INC.
6         2-ORT Field         500         20         20         20000 Field	UND WHE
7         2-0817 (MS         5.0         5.0         2.0         31         32         2-25 m² (MS         5         1-25 m² (MS         5         1-25 m² (MS         1-25 m²	
1 2-30mm POLINE 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 14	UND RIVE
	01103 181E 05 30mi-# 19E
# # 400 PRC MOTINET 224 YR 24 YR 24 YR 24 YR 24 100 00000 MR 10 100000 MR 10 1000000 MR 10 100000 MR 10 1000000 MR 10 100000000 MR 10 100000 MR 10 10000000000	
11 (4-10000 mmm (mm/m) 120 mm 124 (mm 12000 mm 120000 mm 1200000 mm 12000000000 mm 120000000000	
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18 DODA 200 381 111 20 14 DODA WE DODA	A Print Mark Press
17 SAE 20 R	ND 89C
18 946 120 N 9 SNL 220 12 -	-
13,100 32,45 JD.18 18,15 13,100 32,45 JD.18 18,15	
COMPUTATION:     OVER CURRENT PROTECTION USE: 7047, 39, 230V MOLDED CASE CIRCUIT BREAKER IN NEWA 1     COMPUTATION:     DARM CURRENT PROTECTION USE: 7047, 39, 230V MOLDED CASE CIRCUIT BREAKER IN NEWA 1       If = 1702x107104A     MAIN FEEDER:     If = 1700x107104A     MAIN FEEDER:       If = 1502 ADVERS     USE: 3- Hourd THIN 4 1-8 down'THIN GROUND WRE IN 20008 PVC RESISTING INC. PPE     If = 0.000 MAIN FEEDER:	

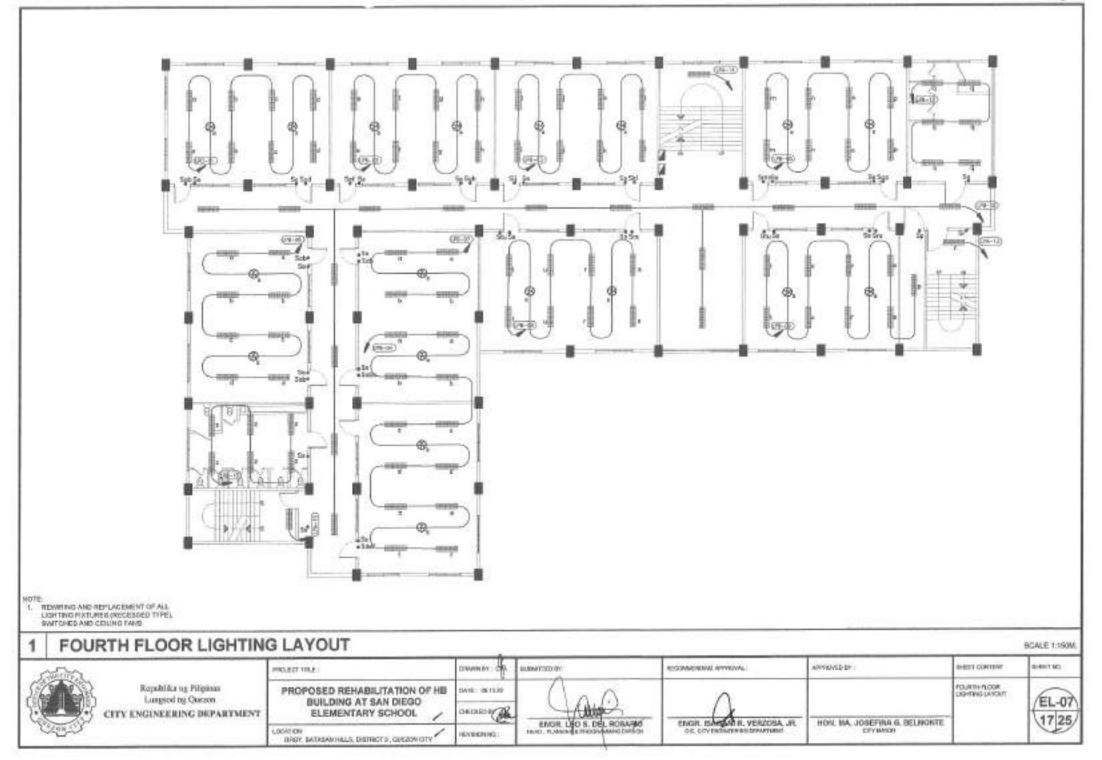
PPB/PPC - EXISTING ( FOR REPLACEMENT)         PPD - EXISTING ( FOR REPLACEMENT)           007         LEMODESCRUPTION         VOLTS         VA         AMPER LOND         VI         VIIII S         COMUNES         COMUNES         VIIII S         VIIIII S         VIIII S         VI	PPB/PPC-EXISTING (FOR REPLACEMENT)         PPB/PC-EXISTING (FOR REPLACEMENT)           CAT         AMPRIC LOND         Volta         A         AMPRIC LOND         SUBJECT         SUBJE	SEC	OND / THIRD FLOOR	TYPIC	AL)								FOU	RTH FLOOR (TYPIC	CAL)								
Mol         LEAD DESCRIPTION         Vol.1s	Model       LADD DESCRAPTION       VOLTS       VAL	PPB	PPC - EXISTING ( FC	RREPL	ACEM	ENT)							PPD	EXISTING (FOR R	EPLACEM	ENT)							
-1 $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ <t< td=""><td>I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I</td><td>CKT.</td><td>Contraction of the</td><td>- and</td><td>1</td><td>N</td><td>WPERE I</td><td>OND ·</td><td></td><td>1.000</td><td>SUE O</td><td>/</td><td>TXD</td><td>Contra Conservation</td><td>- Income</td><td>Sec.</td><td>1.6</td><td>PERELO</td><td>0</td><td>1</td><td></td><td colspan="2">525.0F</td></t<>	I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	CKT.	Contraction of the	- and	1	N	WPERE I	OND ·		1.000	SUE O	/	TXD	Contra Conservation	- Income	Sec.	1.6	PERELO	0	1		525.0F	
1 - 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		LEAD DESCRIPTION	_			80.	A5	38		and the second se			10NO BESCRIPTION				BC	CA 30	-	and the second se		and the second s
i $i$ <td>a      </td> <td></td> <td>I-CONVENDENCE (INTRUST)</td> <td>-</td> <td>.00</td> <td>3.13</td> <td>_</td> <td></td> <td></td> <td>- 29</td> <td>3-379-9, 18. Tubbes and</td> <td>1.2.2.2.2.2.2.2</td> <td></td> <td>1-004098542 9,41078</td> <td></td> <td>320</td> <td>#18</td> <td></td> <td></td> <td>10</td> <td>1-Station, IA INDIAN ANK</td> <td></td> <td>3124</td>	a		I-CONVENDENCE (INTRUST)	-	.00	3.13	_			- 29	3-379-9, 18. Tubbes and	1.2.2.2.2.2.2.2		1-004098542 9,41078		320	#18			10	1-Station, IA INDIAN ANK		3124
		2	+contents intells	578	778	313			-	12	1-35cm' 18 (R0.63 WR)			e-coverence, during	136	730	115		_		1-3.5mm" IN ORDAD THE		
$^{\circ}$ 1-04000000 (100) $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00}$ $^{00$	*       1-448000000 10001       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24       1/24<	- 3		228	110			5.0			1-3 hear 19 crouiss way	1.222.00.011		and the second se	- 300 -	770			2.03		2-Alexed the correct at 1-Shran to groups and	E 10 Stimit 7	
0         1-companyer uset         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	**       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *		4-C2NRHERCE (ULUT) 1-(HERD/RCF LIGH)	128	-98			38)		10		IN SHITM FIC HT		1-ENERGINE 1011	1.91	340			381	- 25		a 16 225074 1	KC HPG
8         3         8         3         9         3         9         8         3         9         8         3         9         9         9	8	5	+-CDMINENCE IE.E.ITS 1-ENERGENET WART	128	100		2.91			70		RESOLUTION PRE-PPE	1		220	.985		244		38	1-Lines" West Solves and 1-Scheme TH LEGUED HERE	si iti Stanut A	IC AR
7       4-000000000 001/05       5/24       78       3.13       8       8       2-35 and Tells EXPRES INTER       8-10 and ME MPL       7       4-000000000 001/05       0.10       90       1-35 and Tells EXPRES INTER       8-10 and ME MPL       7       4-000000000 001/05       0.10       90       1-35 and Tells EXPRES INTER       8-10 and ME MPL       90       75       4-000000000 001/05       0.10       90       1-35 and Tells EXPRES INTER       90       90       9-10       90       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10       9-10 <td>7       4-000000000000000000000000000000000000</td> <td></td> <td>1-COMMENDED OF LITE</td> <td>128</td> <td>118</td> <td></td> <td>3,15</td> <td></td> <td></td> <td>- 25</td> <td>3-35red field toyoth mill.</td> <td>BY 30xce# PVC #V1</td> <td>8</td> <td>LONDING GAUTS</td> <td>100</td> <td>1,450</td> <td></td> <td>7.66</td> <td></td> <td>33</td> <td>T-Silent ten conta et</td> <td>d. (K. Stand /</td> <td>90.875</td>	7       4-000000000000000000000000000000000000		1-COMMENDED OF LITE	128	118		3,15			- 25	3-35red field toyoth mill.	BY 30xce# PVC #V1	8	LONDING GAUTS	100	1,450		7.66		33	T-Silent ten conta et	d. (K. Stand /	90.875
#       COMUNICAC CULUTS       1/3       1/3       20       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201       201	6	1	+-10096390402 001605	(24	:178	3.19				- 29	2-35cm <sup>1</sup> fails conver and	Without Phil Price	7	4-CEMEDARNER 01/12/18	- 110	730	\$12			30	1-3.5cm <sup>2</sup> 388 509000 W	E 14 20mrd 7	90, 20 <b>1</b>
CANSOLOT 1001	Image: Construction		PLUMA 20HORD/WCD-4	228	118			140		80	2-Slew Inte CAVE ME 1-Slew To Distan NE	IN SOLVE PER PPE	8	e-cewenebce.compts 1-chclistercy.usit	230	**			195	30	3-3.5rm <sup>2</sup> 1998 -03998 -88	e island P	VC APE
	1000         1000         0.01         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000 <t< td=""><td></td><td>+-ORMERICE SUBJUT</td><td>124</td><td>605</td><td></td><td>601</td><td></td><td></td><td>89</td><td>3-35mm<sup>2</sup> TWA COPUE AVE 1-25mm<sup>2</sup> TW SP0.80 MRC</td><td>It Street INC MIT</td><td>9</td><td>STAR</td><td>130</td><td>-</td><td>-</td><td></td><td></td><td>- 30</td><td>-</td><td></td><td>-</td></t<>		+-ORMERICE SUBJUT	124	605		601			89	3-35mm <sup>2</sup> TWA COPUE AVE 1-25mm <sup>2</sup> TW SP0.80 MRC	It Street INC MIT	9	STAR	130	-	-			- 30	-		-
2.001 E36 92.05 92.07	COMPUTATION: T = 1752c001VK OVER CLIMINENT PROTECTION USE: SOAT, 3P, 250V MOLDED CASE CIRCUIT BREAKER IN NEWA 1 USE: CONT, 3P, 250V	10	IPAR	138	-	-				30	_	-	10	STAR	100	-	-			30	1000		( <u>11</u>
	ISE : 5047 39: 250 WOLDED CASE CIRCUIT BREAKER IN NEW 1 IF = 1752 : 0019  WW REDER ISE 1, 10 and 100 CREAKER IN NEW 1 IF = 110 x 110 V				2.618	836	1005	-10.17								1,00	125	10,83	10.91				
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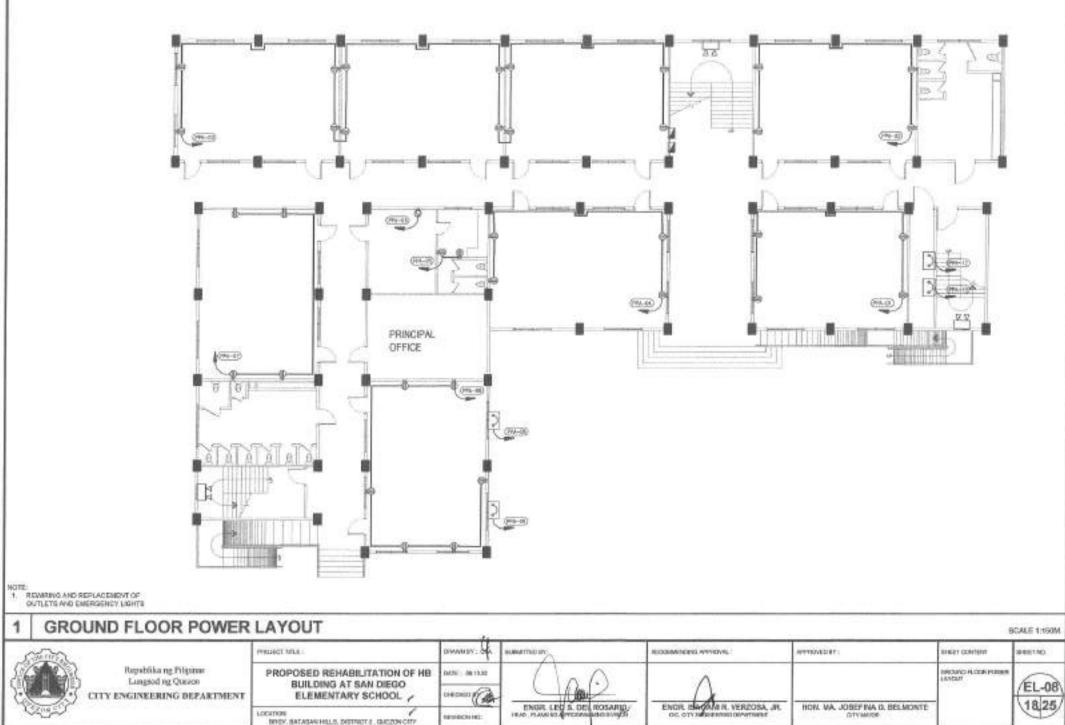


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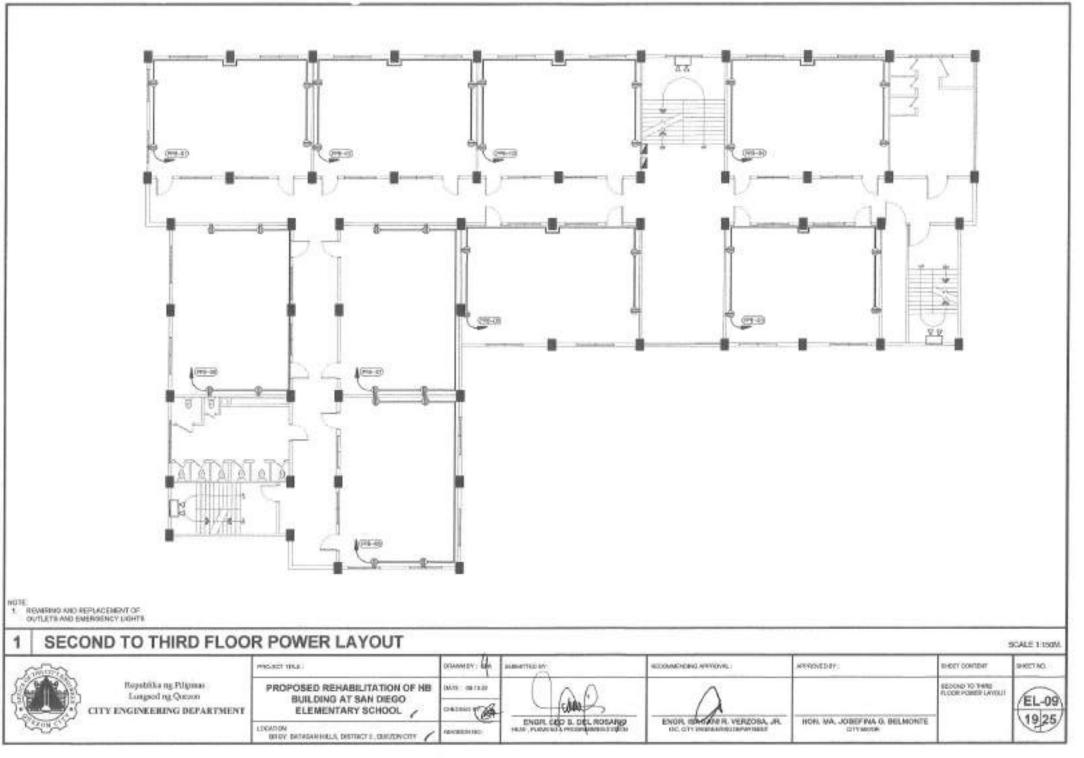


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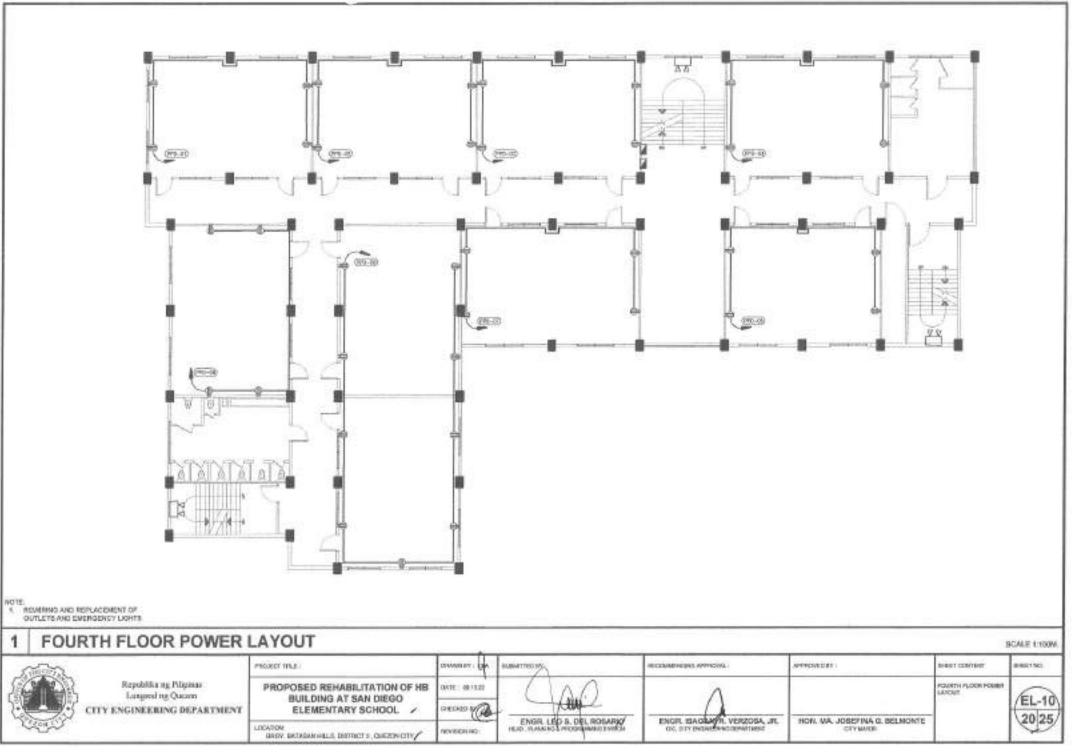


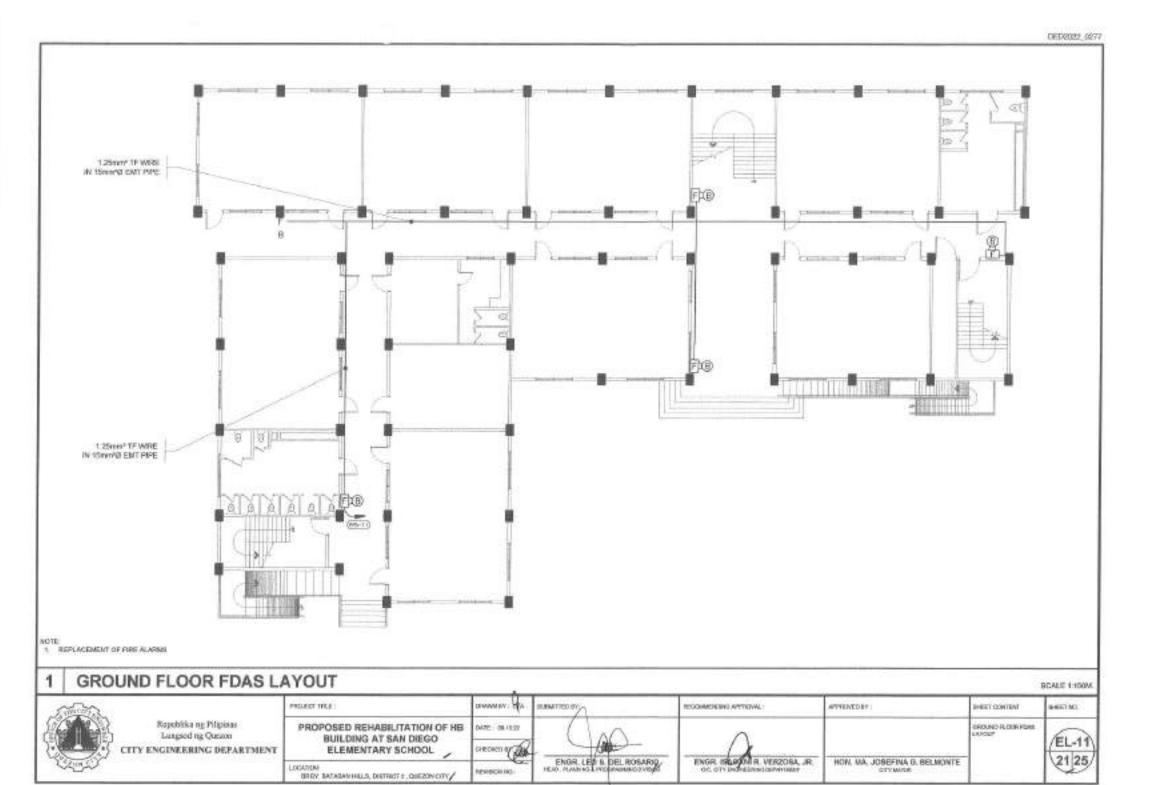


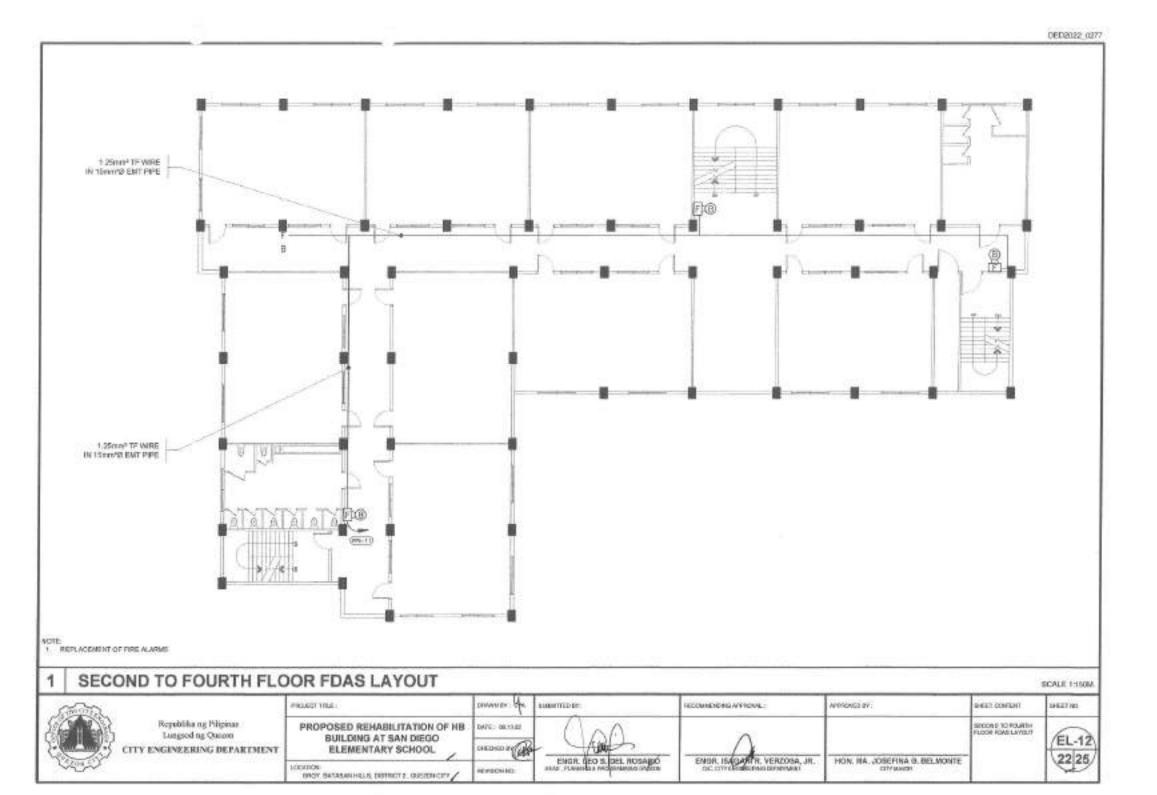


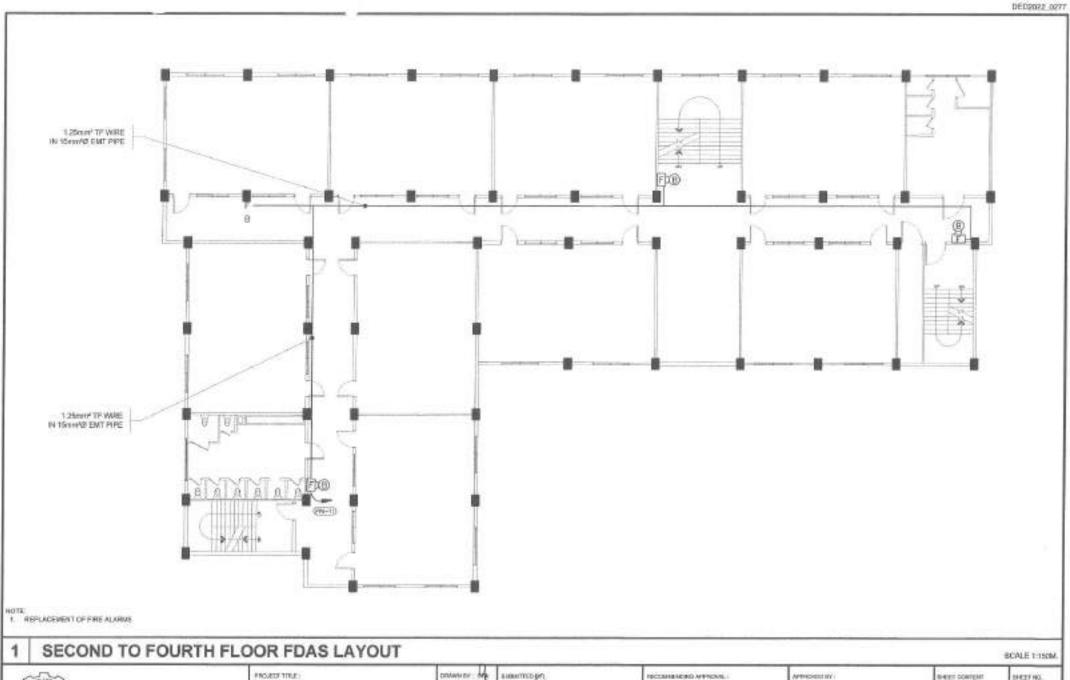




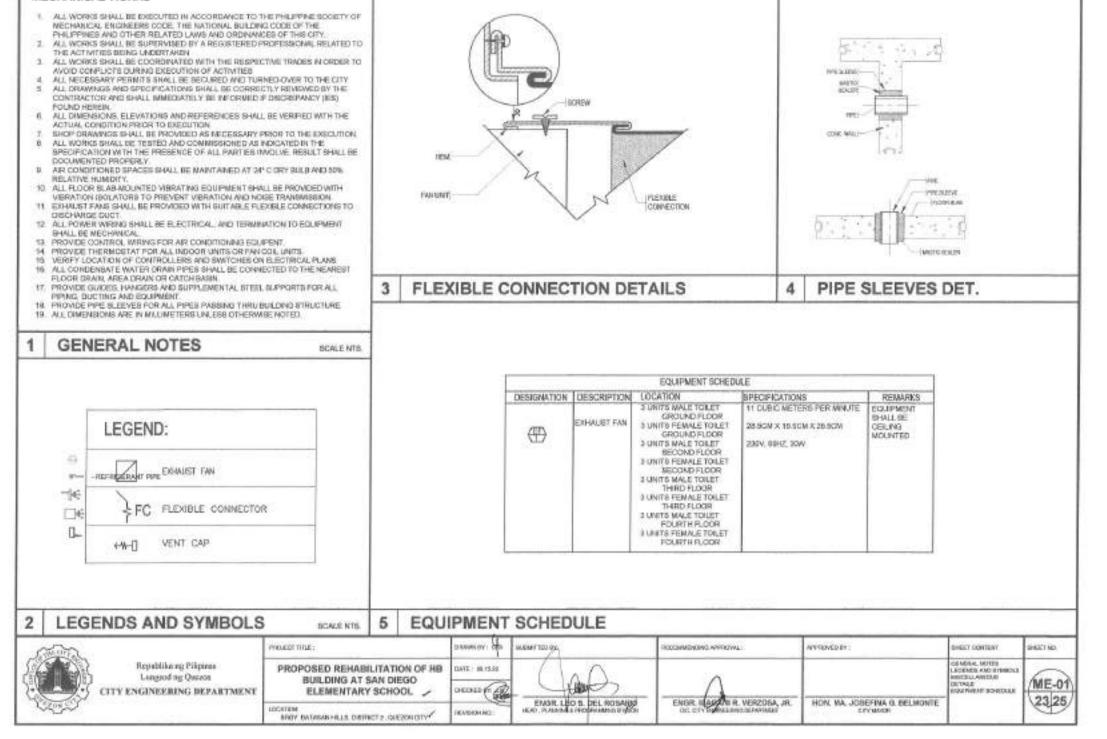






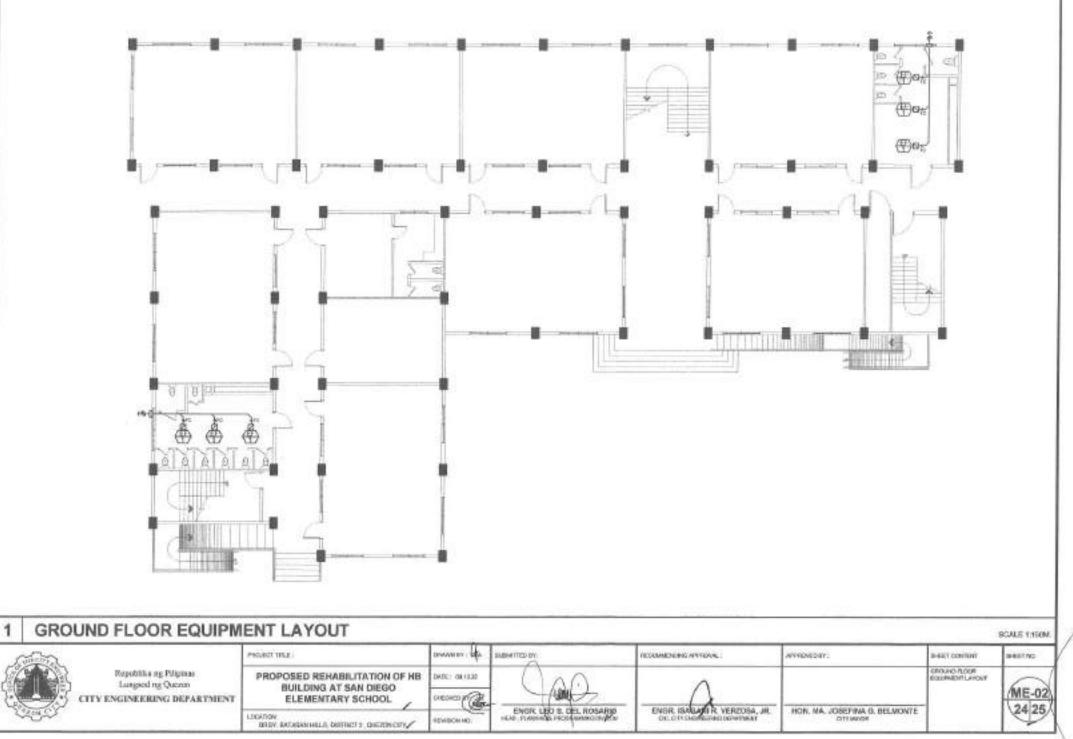


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	Republike ng Pilipinas Langsod ng Qagasa CITY ENGINEERING DEPARTMENT	PROPOSED REHABILITATION OF HB BUILDING AT SAN DIEGO ELEMENTARY SCHOOL			JAR.			BÉCONIS TO FOURTH FLOOR ROAD LAYOUT	EL-12
STOP 1	CITE FORTSEREND DECARDNESS	LOOMON: INDY IN DRIVING DRIVING 2, DECEMBER 12, DECEMBER	REVISION NO.		IR. LEO & DEL HOSARID	ENGR. ISAGANI R. VERZOSA, JR. CIE, CITI UNIBILISTINO DESPUTISI	HON, MA. JOSEFINA G. BELMONTE CITY MAYOR		22 25

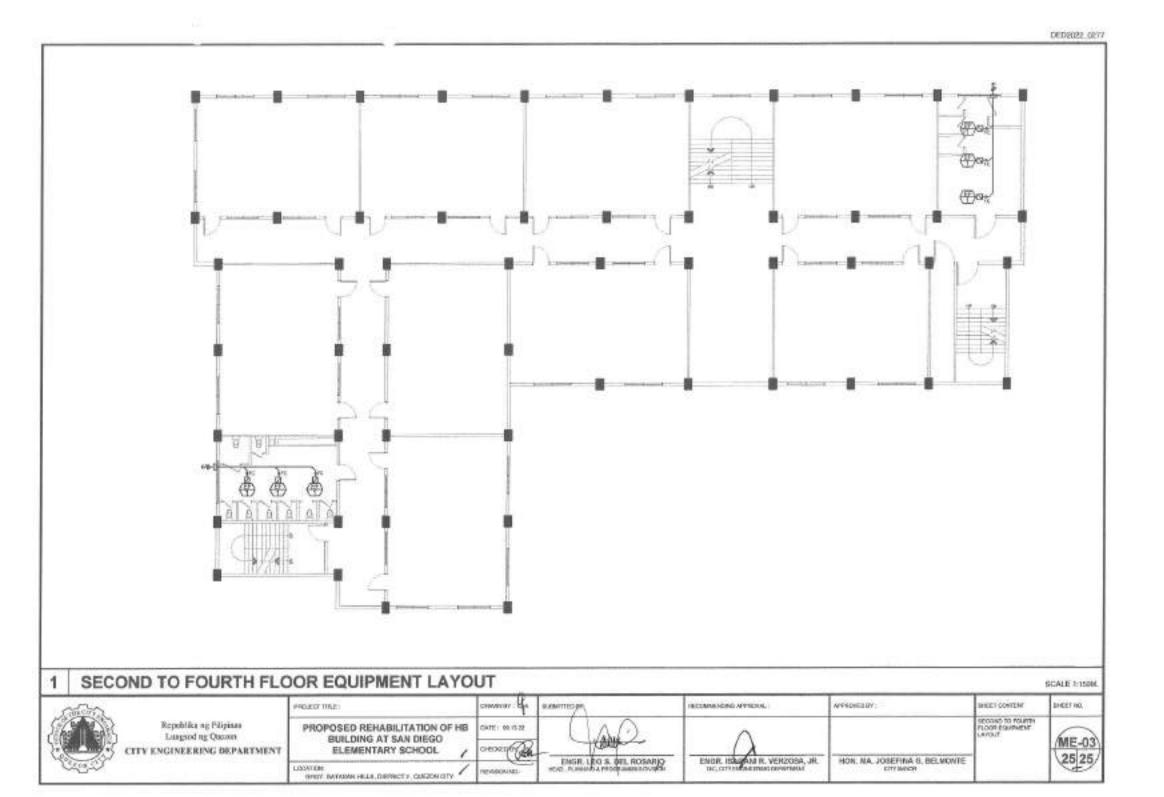


MECHANICAL WORKS





X



## 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 REHABILITATION OF HB BUILDING AT SAN DIEGO ELEMENTARY SCHOOL

LOCATION : BARANGAY BATASAN HILLS, DISTRICT 2, QUEZON CITY

- PROJECT NO. : 22 00168
- DURATION : One Hundred Eighty (180) Calendar Days

#### **BREAKDOWN OF COST**

ITEM CODE		M OF WORK escription)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
GR	GENERAL REQU	JIREMENTS				
OGR	OTHER GENER	AL REQUIREMENTS				
SW	SITE WORKS					
CWS	CIVIL / STRUCT	URAL WORKS				
AW	ARCHITECTUR	AL WORKS				
S/PW	SANITARY AND	PLUMBING WORKS				
EW	ELECTRICAL W	/ORKS				
AUX	AUXILLARY WC	DRKS				
MECH	MECHANICAL V	VORKS				
UTI	UTILITY AND AN	NCILLARY WORKS				

TOTAL COST P

LUMP SUM BID IN WORDS : \_\_\_\_\_

Contractor : \_\_\_\_\_

Bid Form Page 3 of 3

## BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

PROJECT TIT	LE : PROPOSED REHABILITATION OF HB BUILDING AT SAN DIEGO ELEMENTARY SCHOOL	
LOCATION	: BARANGAY BATASAN HILLS, DISTRICT 2, QUEZON CITY	
PROJECT NO.	: 22 - 00168	
DURATION	: One Hundred Eighty (180) Calendar Days	
SCOPE OF WO	RKS:	
GR	General Requirements include billboard(s).	
OGR	Other General Requirements (NON-O.C.M) include, but not limited to:	
1	Temporary enclosure around the construction area.	
2	Temporary water system including water meter/sub-meter and connections.	
3	Temporary electrical system including electric meter/sub-meter and connections.	
4	Clearing, hauling and disposal of construction materials and debris.	
5	Scaffolding for general use (rental).	
SW	Site Works:	
1	Demolition/removal works.	
CWS	Civil / Structural Works:	
1	Masonry works include plastering works and concrete topping.	
2	Moisture Protection include water proofing works.	
AW	Architectural Works:	
1	Floor finishes include tile works for flooring and other floor finishes.	
2	Wall finishes include tile works for walls and other wall finishes.	
3	Ceiling works include installation of ceilings with framings.	
4	Painting works include painting for ceiling, interior and exterior walls.	
5	Fabricated materials include installation of countertop, hanging cabinet, doors and windows.	
S/PW	Sanitary/Plumbing Works:	
1	Installation of roughing-ins, valves and appurtenances and supports.	
2	Installation of water efficient sanitary/plumbing fixtures and accessories, drains, pipe hangers and support comfort room accessories.	S,
EW	Electrical Works:	
1	Installation of roughing-ins and wirings.	
2	Installation of system devices, energy efficient lighting fixtures and components, panelboards, switchgears a accessories.	nd
AUX	Auxiliary Works	
1	Installation of Fire Detection and Alarm System.	
2	Installation of Fire Alarm Manual Pull Station.	
MECH	Mechanical Works	
1	Installation of Ventilation System, includes, roughing-ins, equipment and accessories.	
UTI	Utility and Ancillary Works	
1	Installation of Transfer Pump.	
Ο	Others (included in O.C.M)	
1	Provision of construction health and safety such assafety 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 AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
GR	GENERAL REQUIREMENTS				
SPL7	Billboard (1.20m x 2.40m in Plywood)	1	piece	₽	₽
			MATER	IALS COST GR	₽
			1	BOR COST GR	Г
				ECT COST GR	 ₽
					1
OGR	OTHER GENERAL REQUIREMENTS				
OGR02c	Temporary Enclosure Around the Construction Area (Covered Length; H=2.4m)	152	l.m.	₽	₽
OGRO3O1	Temporary Water Facility	1	unit		
OGRO3O2	Temporary Electrical Facility	1	unit		
	Sub	total OGR	02c-OGF	R0302 (Material)	
0056					
OGR01	Clearing, Hauling and Disposal of Construction Materials and Debris	21	t.l.	₽	₽
OGR05	Scaffolding (Rental)	481	sq.m.		
		Subtotal	OGR01-	OGR05 (Labor)	
		N	IATERIA	LS COST OGR	₽
			LAB		
			DIRE	CT COST OGR	₽
SW	SITE WORKS				
DEMV017	Removal of Existing Concrete Countertop	3	sq.m.	₽	₽
DEMV014	Removal of Ceiling Board	45	sq.m.	-	
DEMV013	Removal of Water Closet	48	set		
DEMV009	Removal of Existing Doors including Hardware and Accessories	53	set		
DEMV027	Removal of Existing Window Panel Including Hardware and Accessories	315	sq.m.		
DEMV021	Removal of Floor Tiles	455	sq.m.		
DEMV021	Removal of Wall Tiles	840	sq.m.		
DEMV001	Chipping Works for Pipelines and Utilities	22	cu.m.		
		DIRE		T SW (LABOR)	₽
					•
CWS	CIVIL / STRUCTURAL WORKS				
CWSMA	Masonry Works				
CWSMA05	Plastering, 25mm thk for Ordinary Walls	2,553	sq.m.	₽	₽
CWSMA12	Concrete Floor Topping 50mm with Welded Wire Mesh 1.6mm Thick	980	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSMA21	Concrete/Floor Topping 25mm	285	sq.m.		
CWSMP	Moisture Protection				
CWSMPW	Waterproofing Works				
CWSMPW03	Membrane Type (Roof Deck)	980	sq.m.		
CWSMPW05	Polyurethane (Comfort Room)	285	sq.m.		
		N	 IATERIA	LS COST CWS	₽
			LAB	OR COST CWS	
			DIRE	CT COST CWS	₽
AW	ARCHITECTURAL WORKS				
AW04	Floor Finishes				
AW0401	300 x 300mm Non-Skid Homogeneous Floor Tiles including Adhesive and Grout	285	sq.m.	₽	₽
AW0404	600 x 600mm Non-Skid Homogeneous Floor Tiles including Adhesive and Grout	172	sq.m.		
AW03	Wall Finishes				
AW0307	300 x 600mm Homogeneous Wall Tiles including Adhesive and Grout	882	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AW02	Ceiling Finishes				
AW0202	12mm thk. MR Gypsum Board including Framing and Accessories	451	sq.m.		
AWP	Painting Works				
AWP0102	Elastomeric Paint Finish (Exterior Wall - 3 Coats)	2,308	sq.m.		
AWP0101	Flat Latex Paint Finish (Interior Wall - 3 Coats)	245	sq.m.		
AWP0105	Flat Latex Paint Finish (Ceiling - 3 Coats)	451	sq.m.		
		Subtot	al AW04	AWP (Material)	₽
AW01	Fabricated Materials				
AW0114	Countertop with Aluminum Cabinet & 600mm x 600mm Homegenous Tiles (width=600mm)	4	l.m.	₽	₽
AW0112	Hanging Cabinet (Wooden)	3	sq.m.		
AWD	Installation of Doors				
AWD010172	D1 - 0.60m x 1.80m Wooden Flush Door with Door Jamb, Hardware and Complete Accessories	42	set		
AWD010239	D2 - 1.2m x 1.8m Wooden Flush Door with Door Jamb, Hardware and Complete Accessories	8	set		
AWW	Installation of Windows				
AWW08	W1 - (3.0m x 1.110m) Steel Casement Window	8	set		
AWW08	W2 - (2.10m x 1.40m) Steel Casement Window	48	set		
AWW08	W3- (2.10m x 1.6m) Steel Casement Window	16	set		
				rials Cost AW01	₽
			La	abor Cost AW01	
				Subtotal AW01	₽
			MATERIALS COST AW		₽
				BOR COST AW	
			DIR	ECT COST AW	₽
S/PW	SANITARY AND PLUMBING WORKS				
S/PW01	Sewer Line / Storm Drainage System				
S/PW0101	Roughing-Ins				
S/PW010102	50mm Ø, PVC Pipe with Hub	209	piece	₽	₽
S/PW010103	75mm Ø, PVC Pipe with Hub	35	piece		
S/PW010104	100mm Ø, PVC Pipe with Hub	26	piece		
S/PW010111	50mm Ø, P-Trap	93	piece		
S/PW010112	75mm Ø, P-Trap	50	piece		
S/PW010114	50mmØ 1/4 Bend	129	piece		
S/PW010120	50mm Ø, 1/8 Bend	251	piece		
S/PW010121	75mm Ø, 1/8 Bend	150	piece		
S/PW010122	100mm Ø, 1/8 Bend	12	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW010130	100mmØ x 50mmØ Wye	83	piece		
S/PW010131	100mmØ x 75mmØ Wye	50	piece		
S/PW010132	100mmØ x 100mmØ Wye	4	piece		
S/PW010163	50mmØ x 50mmØ Tee	258	piece		
S/PW02	Waterline System				
S/PW0201	Roughing-Ins including Connecting Machine				
S/PW020102	PPR Pipe				
S/PW02010205	50mmØ PPR Pipe	5	piece		
S/PW02010215	50mmØ Tee Equal	3	piece		
S/PW02010261	50mmØ 90° Elbow	2	piece		
S/PW02010281	50mmØ Union Patente	3	piece		
S/PW02010290	50mmØ Coupling	5	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW0202	Valves and Appurtenances				
S/PW020205	50mmØ Gate Valve	3	piece		
S/PW020213	50mmØ Check Valve	1	piece		
S/PW03	Sanitary Fixtures, Fittings and Accessories				
S/PW0301	Bidet with Complete Fittings and Accessories	50	set		
	(Water Efficient)				
S/PW0302	PWD Grab Bar, 50mm Ø Stainless	16	l.m.		
S/PW0303	Hose Bibb Lever Type, Stainless, Heavy Duty (Water Efficient)	40	piece		
S/PW0306	Kitchen Sink, Single Tub with Grease Trap (5GPM) with Complete Fittings and Accessories	1	set		
S/PW0317	Slop Sink Faucet with Complete Fittings and Accessories (Water Efficient)	8	set		
S/PW0318	Slop Sink with Complete Fittings and Accessories	8	set		
S/PW0321	Urinal , Flush Valve with Complete Fittings and Accessories (Water Efficient)	12	set		
S/PW0327	Water Closet, Tank-Type with Complete Fittings and Accessories (Water Efficient)	50	set		
S/PW04	Comfort Room Accessories				
S/PW0401	Tissue Holder, Ceramic	50	piece		
S/PW0405	Soap Dispenser, Stainless	16	piece		
S/PW0406	Wall Metal Door Hook Hanger	50	piece		
S/PW05	Plumbing Fixtures, Fittings and Accessories				
S/PW0501	Angle Valve, Single Way, Stainless	13	piece		
S/PW0502	Angle Valve, Two Way, Stainless	50	piece		
S/PW0503	Flexible Hose, Stainless Steel	63	piece		
S/PW06	Drains		-		
S/PW0601	Floor Drain, 100mmØ, Stainless	80	piece		
S/PW07	Pipe Hangers and Supports				
S/PW0705	For Horizontal Pipes Less than 50mmØ (2m Interval)	471	l.m.		
S/PW0706	For Horizontal Pipes More than 50mmØ (1m Interval)	111	l.m.		
S/PW0707	For Vertical Pipes Greater than 50mmØ (1m Interval)	16	l.m.		
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G13	All around Sealant	76	tube		
MC/G14	Solvent Cement, 400cc	69	can		
MC/G15	Teflon Tape	20	roll		
MC/G18	Waste Cloth	15	kg		
		Μ	ATERIAL	_S COST S/PW	₽
			LABC	OR COST S/PW	
			DIREC	CT COST S/PW	₽
		-			

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW01	Pipes				
EW0101	20mmØ PVC Pipe	1,273	piece	₽	₽
EW0102	25mmØ PVC Pipe	72	piece		
EW0401	12mm x 12mm x 2.44m Rectangular PVC Moulding	1,644	piece		
EW05	Fittings and Accessories				
EW05001	20mmØ PVC Elbow	280	piece		
EW05002	25mmØ PVC Elbow	25	piece		
EW05010	20mmØ PVC Adaptor	1,600	piece		
EW05011	25mmØ PVC Adaptor	20	piece		
EW05022	20mmØ PVC Locknut and Bushing	1,600	pair		
EW05023	25mmØ PVC Locknut and Bushing	20	pair		
EW06	Boxes and Fabricated Pullbox				
EW0601	50mm x 100mm PVC Utility Box	270	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	530	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102a	3.5mm <sup>2</sup> THHN Wire	130	roll		
EW090103a	5.5mm <sup>2</sup> THHN Wire	3	roll		
EW0903	TW Wires				
EW090302a	3.5mm <sup>2</sup> TW Wire	20	roll		
EW10	Wiring Devices				
EW1001	Outlet with Grounding, One-Gang	12	piece		
EW1002	Outlet with Grounding, Two-Gang	145	piece		
EW1003	Outlet with Grounding, One-Gang, for ACU, Heavy Duty	1	piece		
EW1015	Switch with Plate and Cover, One-Gang	23	piece		
EW1016	Switch with Plate and Cover, Two-Gang	67	piece		
EW1017	Switch with Plate and Cover, Three-Gang	2	piece		
EW11	Lighting fixtures				
EW11038	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories, Surface Mounted Type	312	set		
EW11034	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	101	set		
EW11059	Emergency Light, Twinhead	12	piece		
EW11096	10W LED Bulb	4	piece		
EW11114	100mmØ Plastic Receptacle	2	piece		
EW11120	150mm Ø Round Recessed Pinlight (case)	2	piece		
EW11140	Orbit Fan with Selector Switch	70	set		
EW13	Panelboard				
ASSY	LPA				
	Main: 70AT, 3P, 230V Branches: 18 - 20 AT, 2P, Bolt-On 2 - 30 AT, 2P , Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	1	assy		
ASSY	PPA				
	Main: 70AT, 3P, 230V Branches: 7 - 20 AT, 2P, Bolt-On 4 - 30 AT, 2P , Bolt-On 2 - 40 AT, 2P , Bolt-On 1 - 30 AT, 2P , Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	1	assy		
ASSY	LPB / LPC				
	Main: 60AT, 3P, 230V	1	assy		
	Branches: 13 - 20 AT, 2P, Bolt-On				
	1 - 30 AT, 2P , Spare				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY	PPB / PPC				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Main: 60AT, 3P, 230V	1	assy		
	Branches: 9 - 20 AT, 2P, Bolt-On				
	1 - 30 AT, 2P , Spare				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY	LPD				
	Main: 70AT, 3P, 230V	1	assy		
	Branches: 16 - 20 AT, 2P, Bolt-On				
	2 - 30 AT, 2P , Spare				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY	PPD				
	Main: 60AT, 3P, 230V	1	assy		
	Branches: 8 - 20 AT, 2P, Bolt-On				
	2 - 30 AT, 2P , Spare				
	Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW1303	Enclosed Circuit Breaker	1			
EW130304	30AT , 2P	2	assy		
EW130305	40AT , 2P	2	assy		
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	1,500	l.m.		
MC	Miscellaneous and Consumables				
MC/G01	All Around Sealant	12	qrt		
MC/G06	Hacksaw Blade	16	roll		
MC/G14	Solvent Cement, 400cc	8	can		
MC/G37	G.I. Tie Wire, Ga.16 (for Wire / Cable Pulling)	30	kg		
MC/E01	Electrical Tape	40	roll		
MC/E03	Pulling Lubricant	4	can		
MC/E04	Rubber Tape	20	roll		
			MATERI	ALS COST EW	₽
			LA	BOR COST EW	
			DIR	ECT COST EW	₽
AUX	AUXILIARY WORKS				
AUX04	Fire Detection and Alarm System				
EW01	Pipes				
EW0120	15mmØ EMT Pipe	200	piece	₽	₽
EW05	Fittings and Accessories				
EW05061	15mmØ EMT Elbow	40	piece		
EW05067	15mmØ EMT Connector, Compression Type	80	piece		
EW05079	15mmØ EMT Coupling, Compression Type	80	piece		
EW06	Boxes and Fabricated Pullbox				
EW0601	50mm x 100mm PVC Utility Box	20	piece		
EW0604	100mm x 100mm Metal Junction Box with Cover	20	piece		
AUX0401	Wires and Cables				
AUX0401 AUX040101		8	roll		
	Wires and Cables 1.25mm <sup>2</sup> TF Wire Devices and Equipment	8	roll		
AUX040101	1.25mm <sup>2</sup> TF Wire	8	roll		
AUX040101 AUX0402	1.25mm <sup>2</sup> TF Wire Devices and Equipment				
AUX040101 AUX0402 AUX040201	1.25mm <sup>2</sup> TF Wire Devices and Equipment 150mmØ Bell	17	piece		
AUX040101 AUX0402 AUX040201 AUX040206	1.25mm² TF Wire         Devices and Equipment         150mmØ Bell         Fire Alarm Manual Pull Station	17	piece		
AUX040101 AUX0402 AUX040201 AUX040206 EW16	1.25mm² TF WireDevices and Equipment150mmØ BellFire Alarm Manual Pull StationPipe Hangers and Supports	17 17	piece unit		
AUX040101 AUX0402 AUX040201 AUX040206 EW16 EW1601	1.25mm² TF Wire         Devices and Equipment         150mmØ Bell         Fire Alarm Manual Pull Station         Pipe Hangers and Supports         Horizontal Layout of Pipe	17 17	piece unit		
AUX040101 AUX040201 AUX040206 EW16 EW1601 MC	1.25mm² TF WireDevices and Equipment150mmØ BellFire Alarm Manual Pull StationPipe Hangers and SupportsHorizontal Layout of PipeMiscellaneous and Consumables	17 17 200	piece unit I.m.		
AUX040101 AUX040201 AUX040206 EW16 EW1601 MC MC/G06	1.25mm² TF Wire         Devices and Equipment         150mmØ Bell         Fire Alarm Manual Pull Station         Pipe Hangers and Supports         Horizontal Layout of Pipe         Miscellaneous and Consumables         Hacksaw Blade	17 17 200 8	piece unit I.m. piece		
AUX040101 AUX040201 AUX040206 EW16 EW1601 MC/G06 MC/G20	1.25mm² TF Wire         Devices and Equipment         150mmØ Bell         Fire Alarm Manual Pull Station         Pipe Hangers and Supports         Horizontal Layout of Pipe         Miscellaneous and Consumables         Hacksaw Blade         Assorted Concrete Nails	17 17 200 8 8 8	piece unit I.m. piece box		
AUX040101 AUX040201 AUX040206 EW16 EW1601 MC/G06 MC/G20 MC/G21	1.25mm² TF Wire         Devices and Equipment         150mmØ Bell         Fire Alarm Manual Pull Station         Pipe Hangers and Supports         Horizontal Layout of Pipe         Miscellaneous and Consumables         Hacksaw Blade         Assorted Concrete Nails         Assorted Tox with Screw	17 17 200 8 8 8 4	piece unit I.m. piece box kg		
AUX040101 AUX040201 AUX040206 EW160 EW1601 MC/G06 MC/G06 MC/G20 MC/G21 MC/G37	1.25mm² TF Wire         Devices and Equipment         150mmØ Bell         Fire Alarm Manual Pull Station         Pipe Hangers and Supports         Horizontal Layout of Pipe         Miscellaneous and Consumables         Hacksaw Blade         Assorted Concrete Nails         Assorted Tox with Screw         GI Tie Wire, Ga. 16 (for Wire/Cable Pulling)	17 17 200 8 8 8 4 4 4	piece unit I.m. piece box kg kg		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
			LAB	OR COST AUX	
			DIRE	CT COST AUX	₽
MECH	MECHANICAL WORKS				
MECH02	Ventilation System				
MECH0201	Duct Works				
MECH020102	150mm Ø Air Vent Cap / End Cap	8	piece	₽	₽
MECH020104	150mm Ø x 3m PVC Pipe	16	piece		
MECH020105	150mmØ Flexible Duct	24	lm		
MECH020107	150mm Ø, 1/8 Bend	24	piece		
			Material	s Cost MECH02	₽
			Labor Cost MECH02		
			Su	ubtotal MECH02	₽

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MECH0202	Ventilation and Exhaust Fan	1			
MECH020213	Ceiling Mounted Exhaust Fan, 8" 11m3/min, 28.5cm x 16.5cm x 28.5cm, Cutout Size:24.5cm x 5cm x 24.5cm, 230V, 60Hz, 30W	24	unit	₽	₽
		M	aterials C	Cost MECH0202	₽
			Labor C	Cost MECH0202	
			Subt	otal MECH0202	₽
MECH0204	Pipe Hangers and Supports				
MECH020412	Ventilation Piping Support	48	l.m.	₽	₽
MECH020413	Ventillation Support	24	unit		
		Materials Cost MECH0204			₽
			Labor C	Cost MECH0204	
			Subt	otal MECH0204	₽
		M	 ATERIAL	S COST MECH	₽
			LABO	R COST MECH	
			DIREC	T COST MECH	₽
UTI	Utility and Ancillary Works				
UTI-I	Equipment and Accessories for Sanitary / Plumbing Works				
S/PW0807	Transfer Pump				
S/PW080705	80 gpm, 120ft, 3.0HP, 230V, 1φ, 60Hz	2	unit	₽	₽
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	3	piece		
MC/G14	Solvent Cement, 400cc	3	can		
			MATER	ALS COST UTI	₽
			LA	BOR COST UTI	
				ECT COST UTI	₽

	N AND SCOPE OF WORKS QTY	UNIT	UNIT COST	TOTAL COST
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#### SUMMARY

ITEM CODE		WORK DESCRIPTION AND SCOPE OF WORKS	AMOUNT
OGR	OTHER GE	ENERAL REQUIREMENTS	₽
		TOTAL ESTIMATED COST A	₽
GR SW CWS AR S/PW EW AUX MECH UTI	SITE WOR CIVIL / STF ARCHITEC SANITARY ELECTRIC AUXILIARY MECHANIC	RUCTURAL WORKS CTURAL WORKS AND PLUMBING WORKS AL WORKS	₽
Note: Strictly enforce he protocol relative f latest applicable I Memorandum.	to the	TOTAL DIRECT COST B Overhead, Contingencies and Miscellaneous Expenses (OCM) PROFIT TOTAL ESTIMATED COST B	
		TOTAL ESTIMATED COST A TOTAL ESTIMATED COST B <b>TOTAL ESTIMATED COST</b> VAT	₽
		TOTAL APPROVED BUDGET FOR 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:

- 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,
- 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 guidelines<sup>1</sup> for this purpose;
- 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;
- 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
- We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

<sup>1</sup> 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].
- 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:

- 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:
  - Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - b. 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]

GPPB Resolution No. 16-2020, dated 16 September 2020

## **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:

- 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.
- 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.:
  - Philippine Bidding Documents (PBDs);
    - Drawings/Plans;
    - ii. Specifications;
    - iii. Bill of Quantities;
    - iv. General and Special Conditions of Contract;
    - v. Supplemental or Bid Bulletins, if any;
  - 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.
- 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.

 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

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

#### LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR:

PROJECT TITLE	DATE OF	CONTRACT	PROJECT OWNER &	CONTRACTOR'S BOLE (SOLE CONTINCTOR, SUBCONTINCTOR,	TOTAL	DATE OF	CONTRACT	PERC	NTAGE	
(Name of the Centract) 8. EXACT PROJECT LOCATION	THE CONTRACT DURATION POSTAL ADDRESS NATURE OF WORK INTEREMANY VALUE AT ESTIMATED	VALUE AT	VALUE AT ESTIMAT	ESTIMATED	JE AT ESTIMATED	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDIN WORKS (IN PHP)	
								TOTAL AMOUNT OUTSTANDING V		

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 IN THE CONTRACT SOLE CONTRACTOR / SUB- CONTRACTOR/PARTNER IN A
		5			
		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, PARTHER IN A JVJ and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETIO IF APPLICABI
								IT APPLICAD

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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### LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:

## PROJECT TITLE:

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

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

NAME OF CONTRACTOR:

# PROJECT TITLE: \_\_\_\_\_

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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# 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)	PHP	
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)

5. B

\_\_\_\_) S. S.

## AFFIDAVIT OF UNDERTAKING

REPRES	l, of legal age, RESENTATIVE]	Filipino,	OFFICER OR
	office address at		after
naving t	ng been duly sworn to in accordance with law, hereby volum	atary depose and st	ate:
	That I am duly authorized representative of the <u>INam</u> undertaking as evidenced by Secretary's Certificate and	e of Bidder Board Resolution.	to execute this
1	ThatIName of Bidder]bidding for the (Name of I	Project)	
	That relative to the aforementioned Project, the <u>[Nam</u> that the equipment to be use and the key personnel to be will only perform to the said project until its completion.	assign shall exclus	eby undertake ively be used and
1	That I am executing this affidavit to attest to the truth of with the submission of the technical requirements for the	the foregoing and i public bidding of	n compliance the said project.
	IN WITNESS HEREOF, I have hereunto signed my	y name below th	uis day
y	AFFIANT FURTHER SAYETH NAUGHT.		

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this	_ day of
in	

affiant exhibiting to me his/her \_\_\_\_\_ issued at on

Doc, No. ÷ Page No. ; Book No. ÷ Series of 2020

Notary Public

