PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA, LUCIA SENIOR HIGH SCHOOL

Project number: 24-00063

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.

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL, with Project Identification Number 24-00063.

[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 2024 in the amount of Ten Million Three Hundred Twenty-Seven Thousand Nine Hundred Sixty-Nine Pesos and 92/100 Ctvs. (P 10,327,969.92).
- 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 May 24, 2024 at 10:00 AM 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**.

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause			
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.		
7.1	Subcontracting is not allowed.		
10.3	No additional contractor license or permit is required		
	In addition, eligible bidders shall q	ualify or comply	with the following:
	1. Bidders with valid Philippine Cor	ntractors Accredi	tation Board (PCAB)
	Туре		
	Building - Small B		
10.4	The minimum work experience	requirements for	r key personnel are the
}	following: Query	ol Evmonionoo	Dalayant Eymanian aa
	Qnty. Key Personnel Gener	ral Experience	Relevant Experience
	1 Project Manager	3 years	3 years
	1 Project-In-Charge (Project	3 years	3 years
	Engineer) 1 General Foreman	3 years	3 years
	1 Trade Engineers/Leadman	•	3 years
	for Civil Works	e y cure	e j une
	1 Trade Engineers/Leadman for Electrical Works	3 years	3 years
	1 Safety Officer	3 years	3 years
	1 DPWH duly accredited Materials/QA/QC Engineer	3 years	3 years
	1 Cost Engineer/ Project Scheduler	3 years	3 years
	1 Surveyor	3 years	3 years
	In addition, the bidder must ex		
	notarized stating that the foregoing for the project until its completion.	-	
10.5	The minimum major equipment requi		•
		a ••	NT 1 077 1
	Equipment	Capacity	Number of Units
	Dump Truck Welding Machine	12 cu. yard 500amp	1 2
	Grinder	Jouannp	1
	One Bagger Mixer		1
	In addition, the bidder must ex	ecute an affida	vit of undertaking duly

	notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.
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: a) The amount of not less than Php 206,559.40 or equivalent to two percent
	 (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b) The amount of not less than Php 516,398.50 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.

Section IV. General Conditions of Contract

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 120 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 thirty (30) days 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.



Republic of the Philippines Quazon City

DEPARTMENT OF ENGINEERING

Clylc Center Building B, Quezon Clty Helt Compound, Elliptical Road Dileman, Cantral 1100 Quazon City Trunkline: +63 2 8988 4242 E-mail address: engineering@quezoncity.gov.ph



PROJECT TITLE

LOCATION:

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM

AT STALLUCIA SENIOR HIGH SCHOOL

BARANGAY STA. LUCIA, DISTRICT 5, QUEZON CITY

TECHNICAL SPECIFICATIONS

I. 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 been all cost arising therefrom.
- B Drawings, specifications, codes and standards are minimum requirements. Where requirements differ the more stringent apply.
- C. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- D. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location, to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defactive.
- G. All equipment and installations shall meet or exceed minimum 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.
 - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J Temporary Facilities and Utilities
 - 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 maintained to sustain loads to be cerned on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demotished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - 1 A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 - 2 The medical room shall be provided with waterproofing; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
 - Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
 - Construction safety shart consist of 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 cartification 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 program.

I), SITE WORKS

- A. All grades, lines, levels and dimensions shall be ventied 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 setisfactory disposal of all buildings, fences, structures, o'd pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain except for the obstructions to be removed and disposed of under other items in the Contract.
 - Removal and/or demolition of existing structures shall be done in accordance to safety procedures.
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation 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.

Tranches 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 curvert shall be placed until the Engineer has approved the depth of excavation and the character of the foundation material.

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

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORKS

- Delivery, Storage, and Handling: All materials shall be so delivered, stored and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
- Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

Materials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150)
- Water used in mixing concrete shall be clean and free from other injunous amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel
- c. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates" Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
- Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one lifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars and forms.
- 4. Proportioning and Mixing

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

Cement Sand, Grave:

Class 'A" - 1 2 3

Class 'B" - 1, 2, 4 Class 'C" - 1; 2 ½

- Concrete mixture to be used for concrete shall conform with the structural h. requirements.
- Mixing concrete shall be machine mixed. Mixing shall begin within 30 c minutes after the cement has been added to the aggregates.

Forms

- General Forms shall be used whatever necessary to confine the concrete a. and shape it to the required lines, or to insure the concrete of contamination. with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently light to prevent loss or mortar from the concrete. Forms shall be 1/2" (6mm) thick ordinary plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the h formed hall be cleaned of encrustations of mortar, the grout or other foreign material.
- Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damagė.

Placing Reinforcement:

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

7. Conveying and Placing Concrete:

- Conveying concrete shall be conveyed from mixer to forms as rapidly as а applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2). meters and consequently segregation is reduced to a minimum near forms or embedded items or elsewhere as directed, the discharge shall be 80 controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified
- Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more then 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer

- d. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set, and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- e Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

8. Curing

- General All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions
- b. Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

Finishing

- a. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be amount, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
- b. Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. MASONRY WORKS

- Masonry Units (Concrete Hollow Blocks):
 - 100mm thick for all interior walls and 150mm thick for all exterior walls unless
 otherwise indicated.
 - 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 sufferier columns and lintel 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.

2. Sand:

S-1, washed, clean and greenish in color

Mortar

One part Portland cament and two parts sand 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

Plaster bond.

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

6 Floor Topping Preparation for Tilework. One part Portland cement and two parts sand and water but not more than three parts sand and water

C. MOISTURE PROTECTION

1 WATERPROOFING

- Cementitious waterproofing powder mix shall be cement-based aggregate-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 cament-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 dirf, loose morter particles, paint films, oil, protective coats, efforescence, tartance, 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 labor, 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.
- Test waterproofed area by seventy-two (72) hours and check for any seepages.

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

2. VAPOR BARRIER

 Vapor barrier shall be placement of 8mil Polyethylene sheet prior to pouring of concrete for foundation members, slabs-on-fill and slabs-on-grade.

IV. ARCHITECTURAL WORKS

A. FLOOR FINISHES

1 Ceramic Tiles. Unglazed ceramic 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/plumbling, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage.

 Cement Floor Finish. Mortar topping shall be one part Portland cement and three parts line aggregate by loose volume Finish topping shall be pure Portland cement properly graded maxed with water to approved consistency and plasticity. Where required to be colored cement floor finish, red or green exide 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.

B. WALL FINISHES AND PARTITIONING

Ceramic Tiles. Glazed tiles and trims shall have an impervious face of ceramic
materials fused onto the body of the tiles and trims. 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 glossy), matte (dull) or crystalline
(mottled and textured; good resistance to abrasion).

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

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

C. CEILING FINISHES

1. Slab Soffit.

D. CARPENTRY WORKS

Lumber of different species for the various parts of the structure shall be well-seasoned, sawn straight, sundried or kiln-dried and free from defects such as loose unsound knots pitch pockets, sepwood, cracks and other imperfections impaining its strength, durability and appearance.

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

Plyboard shall be good grade and made of laminated wood strips of uniform width and thickness bounded together with water resistant resin glue. The laminated core shall be finished both faces with select grade Tanguile or red Lauan veneers not less than 2 mm thick similarly bonded to the core. The plyboard 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 taminae shall not be less than 2 mm. The 'aminae shall be superimposed in layers with grains crossing at right angles in successive layers to produce stiffness. The face veneers shall be rotary cut from select grade timber. The laminae and 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 walling and ceiling not exposed to moisture; waterproof or marine plywood shall be used for ceiling exposed to moisture such as at foilets and eaves, and ceiling to be finished with advitex.

Glue shall be from water resistant resins 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 carpentry and joinery works. All 'asteners shall be brand new and adequate size to ensure rigidity of connections.

- Nails of adequate size shall be steel wire, diamond-pointed, ribbed shank and blight finish.
- 2. Screws of adequate size shall be aluminum or brass plated steel with slotted head
- Lag screws of adequate size, for anchoring 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 nut.
- Wrought iron straps or angles, when required in conjunction with bolts or lag screws to provide proper anchorage, shall be of the shape and size shown on the Plans

E. 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, DPVVH or the National Institute of Science and Technology.
- 2 Tinting Colors Tinting colors shall be first grade quality pigment ground in alkyd resin that disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body
- 3 Skim coat. Skim coat shall be line powder type material like kalsomine that can be mixed into putty consistency with oil-based primers and paints to fill minor surface dents and imperfections.

4 Paint Schedule

- Exterior Mesonry Wall (plain cement plastered finish to be painted)
 - 1 cost skim coating, 1 cost primer, 2 costs elastomeric paint finish.
- Interior Masonry Wall (plain cement plastered finish to be painted)
 - t coat skim coating, 1 coat primer, 2 coats fatex paint finish
- c. Interior Dry Wall
 - j 1 cost primor, 2 costs latex paint finish.
- d. Cailing Boards
 - 1 coat primer, 2 coats latex paint finish
- e. Slab Soffit
 - 1 coat primer, 2 coats latex paint finish
- Metal / Steel Surfaces
 - i. 1 coat primer. 2 coats epoxy enamel finish.
- 5. Surface Preparation All surfaces shall be in proper condition to receive the linish Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be sealed with natural wood filter. Nail holes, cracks or defects shall be carefully puttied after the first coat, matching the color of paint.

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

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

Metal shall be clean, dry and free from milt 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.
- b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- Panting and varnishing works shall not be commenced when it is too hot or cold.
- Allow appropriate ventilation during application and drying period
- All hardware will be fitted and removed or protected prior to painting and varnishing works.
- 5 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 nonsticky when thinned to spraying viscosity so that it will break up easily into droplets

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

- Application shall be as per paint Manufacturer's specification and recommendation.
- 8 Provide at: drop cloth and other covering requisite for protection of floors, walls, eluminum, glass, finishes and other works.
- 9 All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- 10 All surfaces including masonry wall shall be thoroughly cleaned, puttled, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer
- 11 All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- 12 All other surfaces endangered by stains and point marks should be taped and covered with oraft paper.

V. SANITARY / PLUMBING WORKS

- A. 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).
- B Supply, installation and testing of the following.
 - Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.

- 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.
- Soit waste and vent system complete in all respect including but not limited to connection to existing sewer, submittels, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
- Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- Install equipment in strict accordance with manufacturers written recommendations.
- F. 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.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes 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.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales calalogue of a general nature will not be accepted.
- K. All materials, equipment components and accessories 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 precticable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on sife whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with festing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.

- R Hydraulic tests shall be carned out as the pipework is installed and shall be completed before chases in wells and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S 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 isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional fests required by the end-user and/or approving agency
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for teakage at every joints.
- V Testing of drainage systems shall be carried out in sections by dividing the system horizontally Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within timits and under conditions indicated according to ASCE/SEL7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC 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

VI. ELECTRICAL WORKS

A. CONDUITS, BOXES AND FITTINGS

- This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknots 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 workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done.

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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, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- 7 All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.
- Upon completion of the electrical construction work, the contractor + shall provide all test equipment and personnel and to submit written copies of all test results.
- 9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES.

- 1 This item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
- 2. Wires and cables shell 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, emooth and of cylindrical form and shall be centrally located inside the insulation.
- Conductors or wires shall not be drawn in conduits until after the cament plaster is dry and the conduits are thoroughly cleaned and free from drit and moisture. In drawing wires into conduits, sufficient stack shall be allowed to permit easy connections for fixtures, switches, receptades 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 soldeness connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
- 7 No splices or joints shall be permitted in either feeder or branch conductors except within outler boxes or accessible junction boxes or pull boxes. All joints in branch circuit wiring shall be made mechanically and electrically secured by approved splicing devices and taped with rubber 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 flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.

 When more than one switch or device is indicated in a single location, gaing plate shall be used.

C. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS

- This Item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgear 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.
- 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
- 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:
 - One (1) Air-filled Interrupter Switch, 2-position (open-crose) installed in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interfock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
 - ii. Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.
 - One 1) set of high voltage potheads or 3-conductor cables or three single conductor cables.
 - rv. Lightning arresters shall be installed at the high voltage cubicle if required.

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

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

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

The following accessories shall be provided with the transformer, namely: drain valve, sampling device, filling connection, oil liquid level gauge, ground pad top filter press connection, lifting lugs, diagrammatic nameptate, 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 Voltage Switchboard Section. The low-voltage switchboard shall be standard modular-unitized units, metal-built, dead front, safety type construction and shall consist of the following:
 - i. Switchboard Housing. The housing shall be heavy gauge steel sheet, dead front type, gray enamel finish complete with frame supports, steel bracings, steel sheet panelboards, removable rear plates, copper busbers, 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 small consist of one (1) ammeter, AC, indicating type; one (1) voltmeter. AC, indicating type, one (1) ammeter transfer switch for 3-phase, one (1) voltmeter transfer switch for 3-phase; and current transformers of suitable rating and capacity

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

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

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

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

Cyrcuit breakers shall each he of the indicating type, providing 'ON' - "OFF and "TRIP" positions of the operating handles and shall each be provided with nameplate for branch dirouit designation. The dirouit 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 nata-cled, dead front free standing, safety type construction and shall have copper busbars of sufficient size braced to resist allowable root mean square (RMS) symmetrical short circuit stresses, and all necessary accessories. The low-voltage switchgear shall consist of the switchgear housing secondary metering, main breaker and feeder branch circuit.
- Grounding System. All non-current carrying metallic parts like conduits, cabinets and equipment frames shall be properly grounded in accordance with the Philippine Electrical Code latest edition

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

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

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

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

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

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

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

- D Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable)
- E. Drawings, specifications codes and standards are minimum requirements. Where requirements differ the more stringent apply
- F All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- G. Execute work in strict accordance with the best practices of the trades in a thorough, substantial workmanlike manner by competent workmen.
- H. When the tests and inspections have been completed, a 'abel shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

I PANELBOARDS

- 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.
- Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - Rated for environmental conditions at installed location.
 - Indoor Dry and Clean Locations: NEMA, Type 1
 - Outdoor Locations: NEMA, Type 3R
 - Kitchen and Wash-Down Areas. NEMA. Type 4X, stainless steel
 - iv. Indoor Locations Subject to Dust, Falling Dirt. and Dripping Noncorrosive Liquids NEMA, Type 12
 - Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive 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 Skirt for Surface-Mounted Panetboards. Same gauge and finish as penelboard from with flanges for attachment to panelboard, wall, and ceiling or floor.
 - Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; Integral with enclosure body. Arrange to isolate individual panel sections.
 - f. Finishes:



- Panels and Trim: Steel and galvanized steel, factory finished immediately 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.
- Permanent fungicidal treatment for overcurrent Fungus Proofing: **||•**. 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. 3
- Phase, Neutral, and Ground Buses: 4.
 - Material: Hard-drawn copoer, 98 percent conductivity. В.
 - Adequate for feeder and branch-circuit Equipment Ground Bus: ħ equipment grounding conductors; banded to box
 - Neutral Bus, 100 percent of phase bus 4, Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.
- pans of the structure and equipment damaged by the Contractor in the prosecution of the work shall be replaced as shown on the Plans

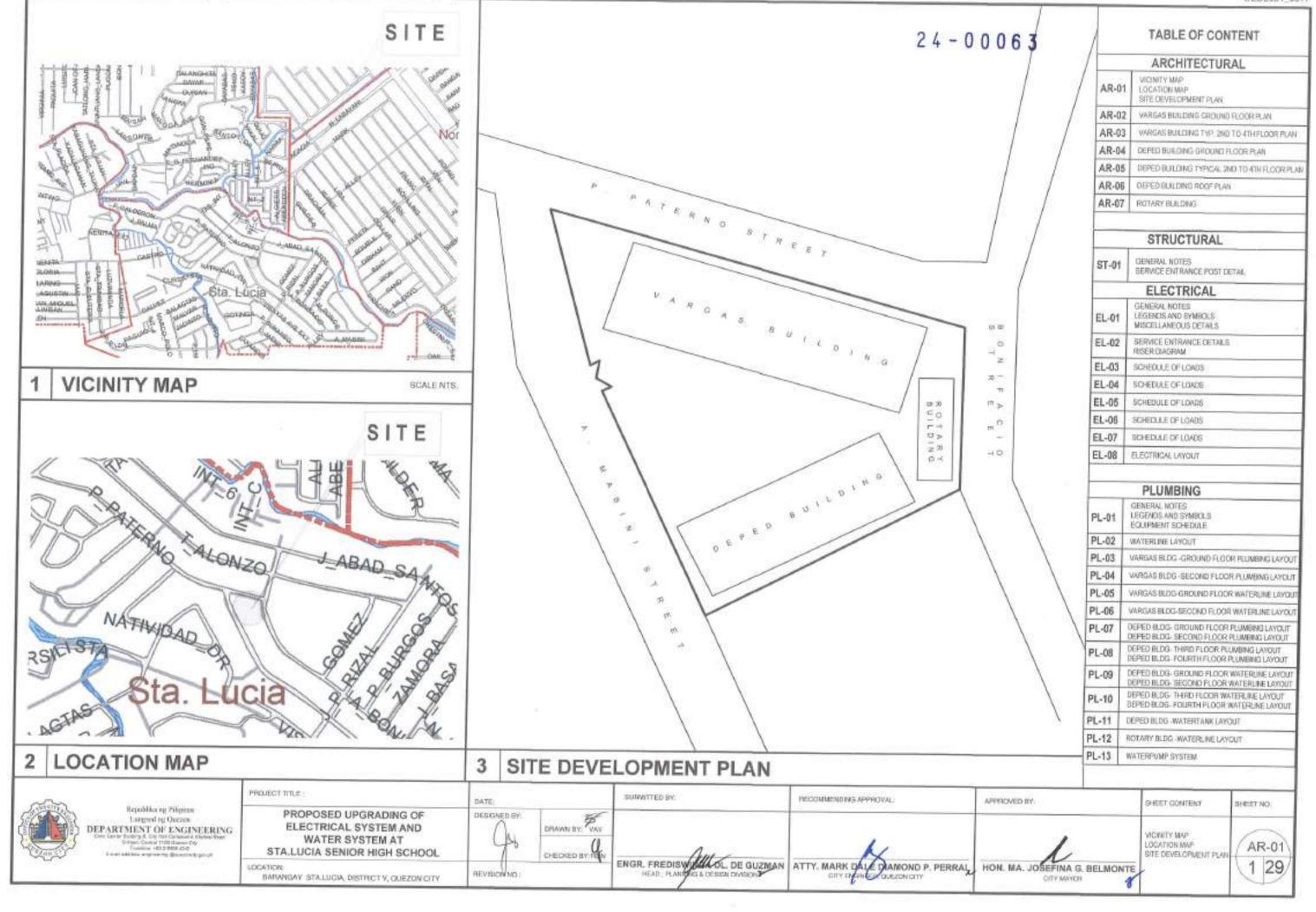
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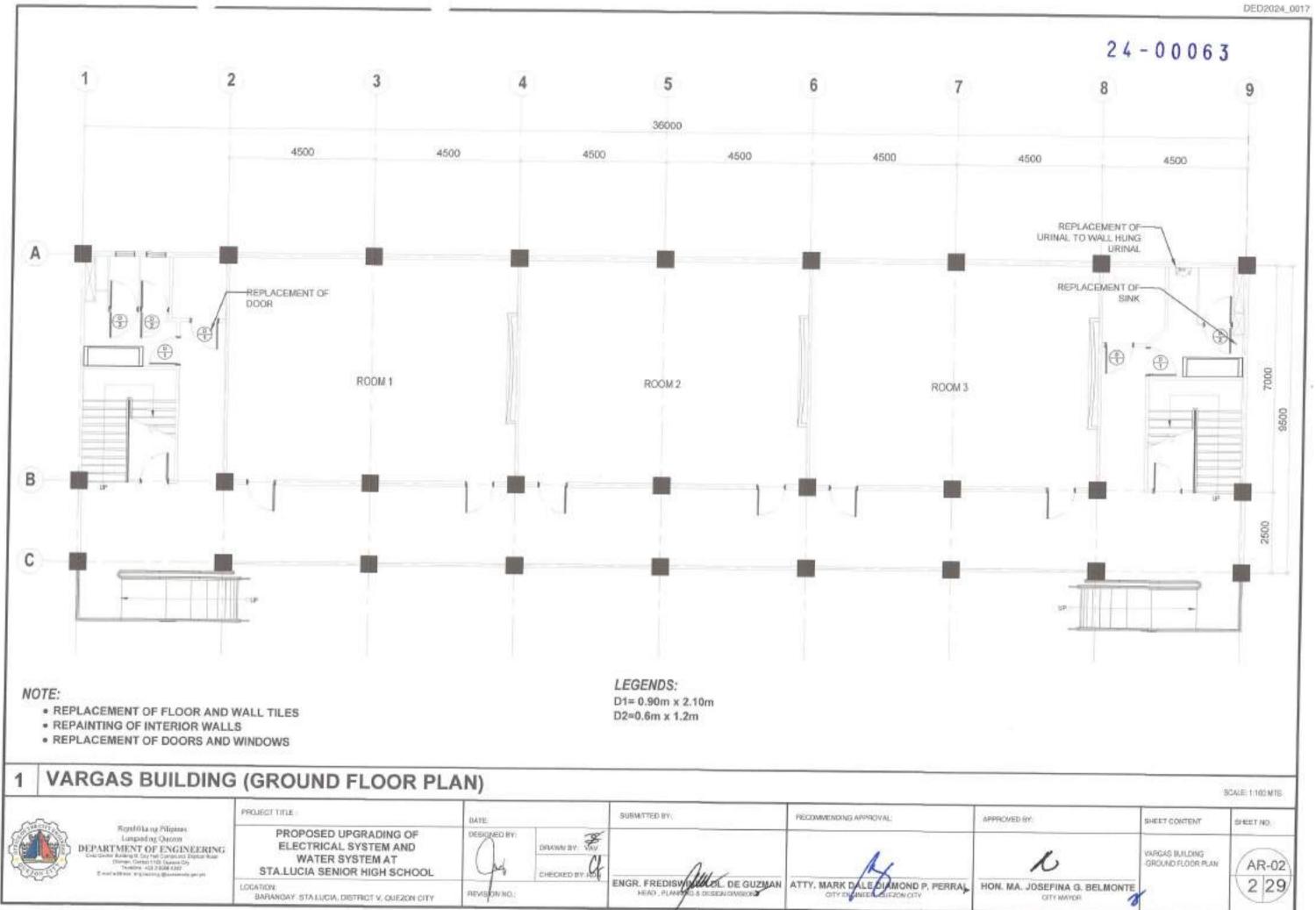
E.E. Planning and Programming Division

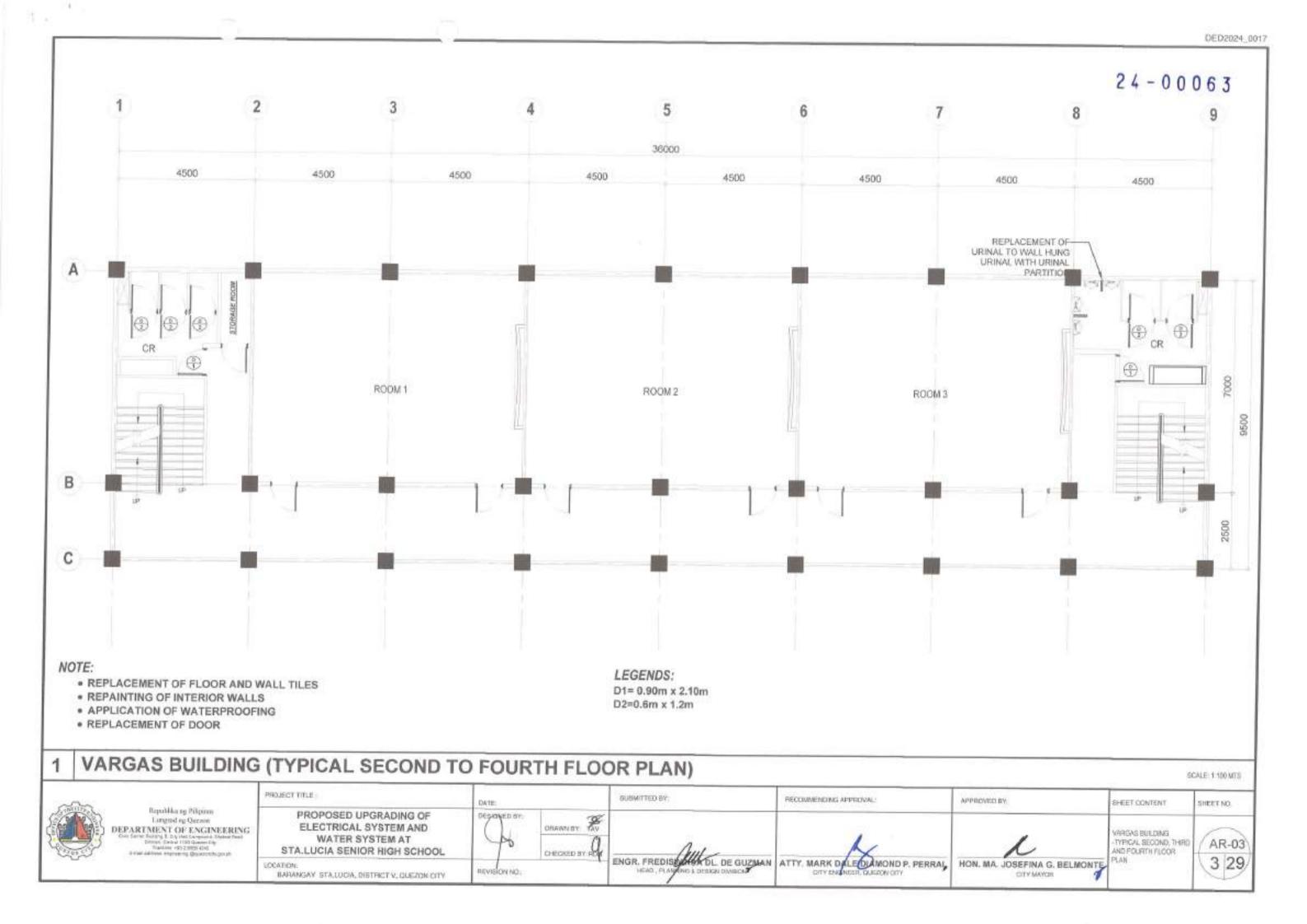
ENGREBALPHOREGOR M. MANALO C E.∕Place@ilig and Programming Division

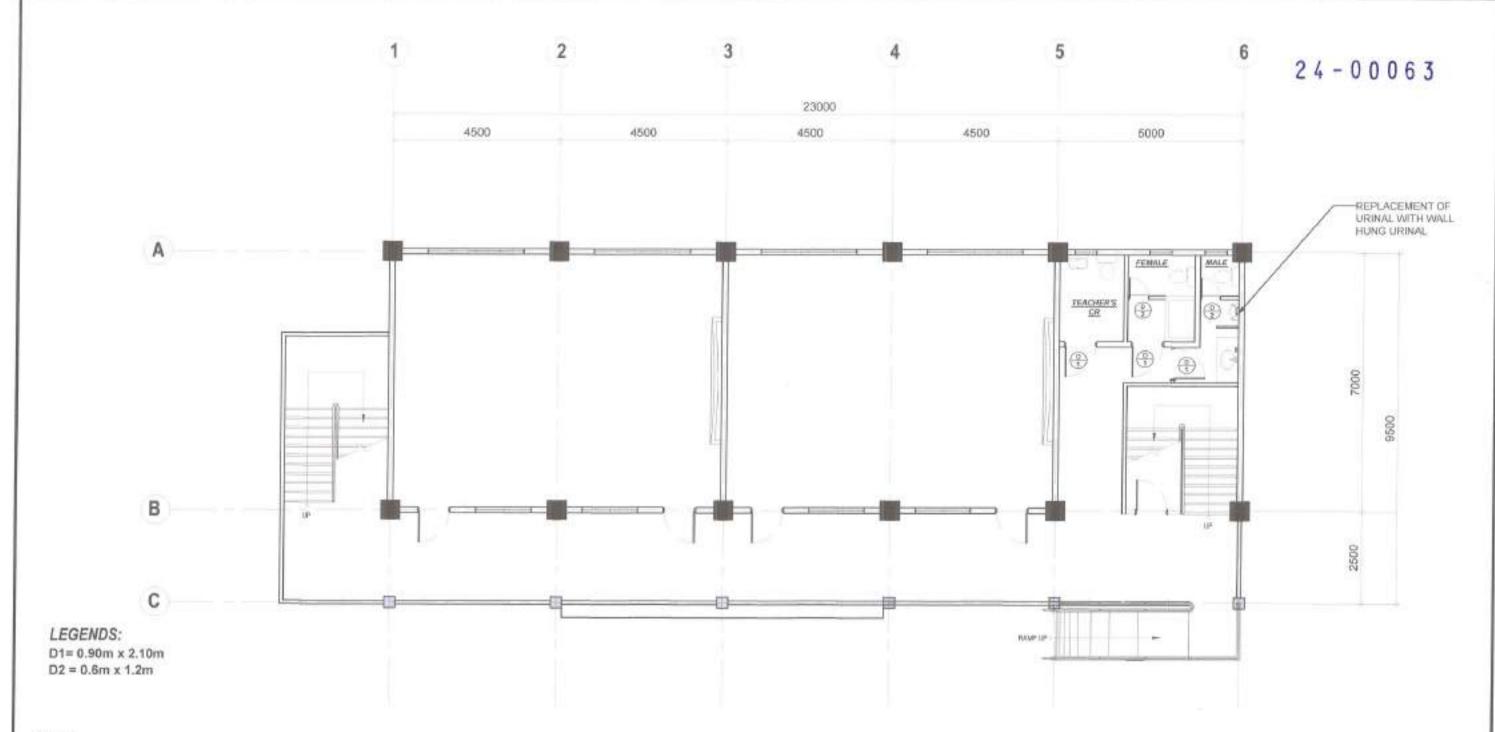
Section VII. Drawings

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









NOTE:

- . REPLACEMENT OF WALL AND FLOOR TILES
- . INSTALLATION OF WALL HANG URINAL
- . REPLACEMENT OF DOOR
- . REPAINTING OF INTERIOR WALL

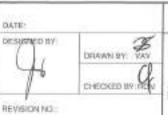
DEPED BUILDING (GROUND FLOOR PLAN)

SCALE: 1:100 WTS

SHEET NO.



Kepablika ng Pilipinas Lingsiding Queens DEPARTMENT OF ENGINEERING PROVECT TITLE: PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STALLUCIA SENIOR HIGH SCHOOL LOCATION: BARANGAY STALUCIA, DISTRICT V. QUEZON CITY.





SUBMITTED BY:

ENGR. FREDISWANDA DL. DE GUZMAN ATTY. MARK DALE DIAMOND P. PERRAL HON. MA. JOSEFINA G. BELMONTE

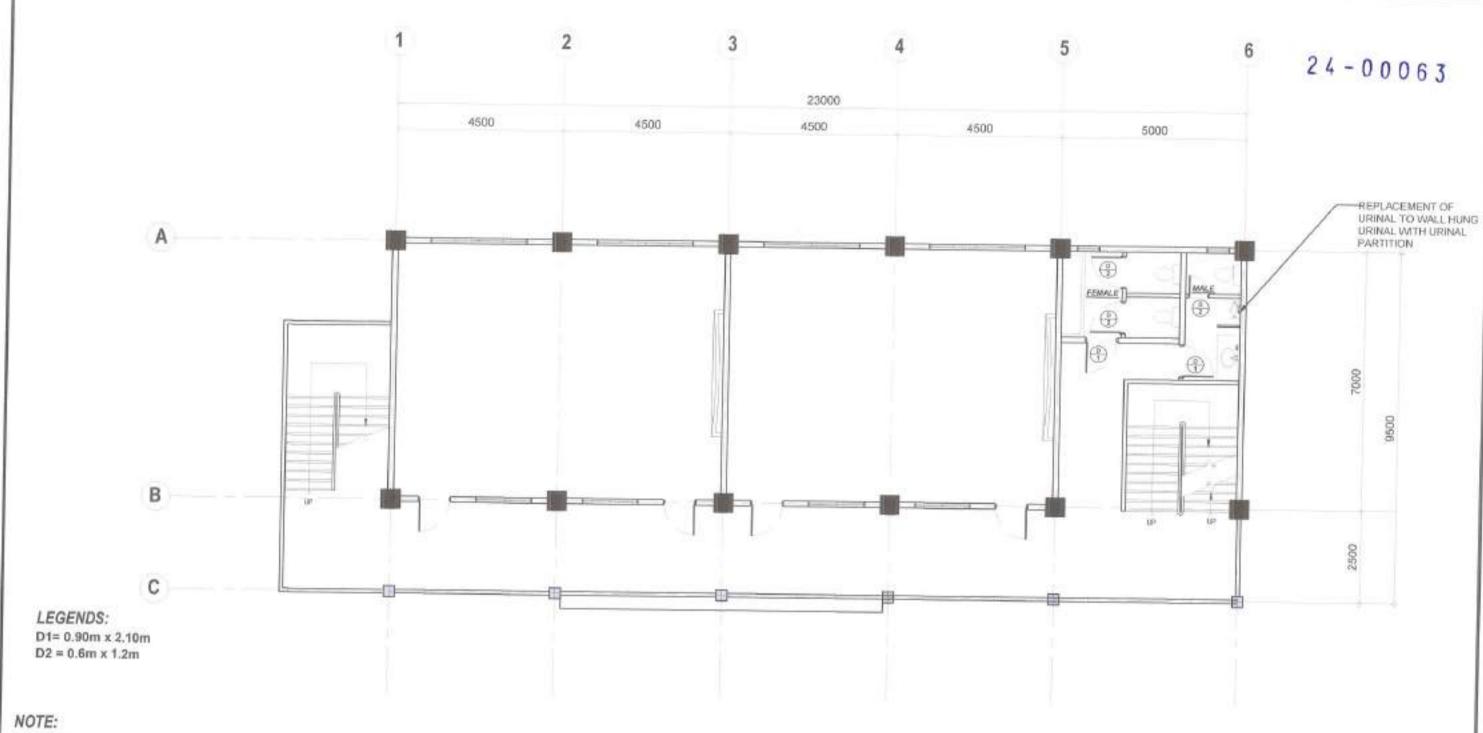
RECOMMENDING APPROVAL

CITY MAYOR

APPROVED BY:

DEPED BUILDING AR-04 -GROUND FLOOR PLAN 4 29

SHEET CONTENT



- . REPLACEMENT OF WALL AND FLOOR TILES
- REPLACEMENT OF DOOR
- . REPLACEMENT OF CEILING
- . REPAINTING OF INTERIOR WALL
- APPLICATION OF WATERPROOFING

DEPED BUILDING (TYPICAL SECOND TO FOURTH FLOOR PLAN)

SCALE 1:100 MTS

SHEET NO



Republika og Pilipinas Langsed og Quezon DEPARTMENT OF ENGINEERING

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA.LUCIA SENIOR HIGH SCHOOL

BARANGAY STAILUCIA, DISTRICT V, QUEZON CITY

PROJECT TITLE

DESIGNED BY: DRAWNBY VAV CHECKED BY FICE REVISION NO.

SUBMITTED BY:

ENGR. FREDISWING DE GUZMAN ATTY. MARK DAVE DIMMOND P. PERRAL

RECOMMENDING APPROVAL

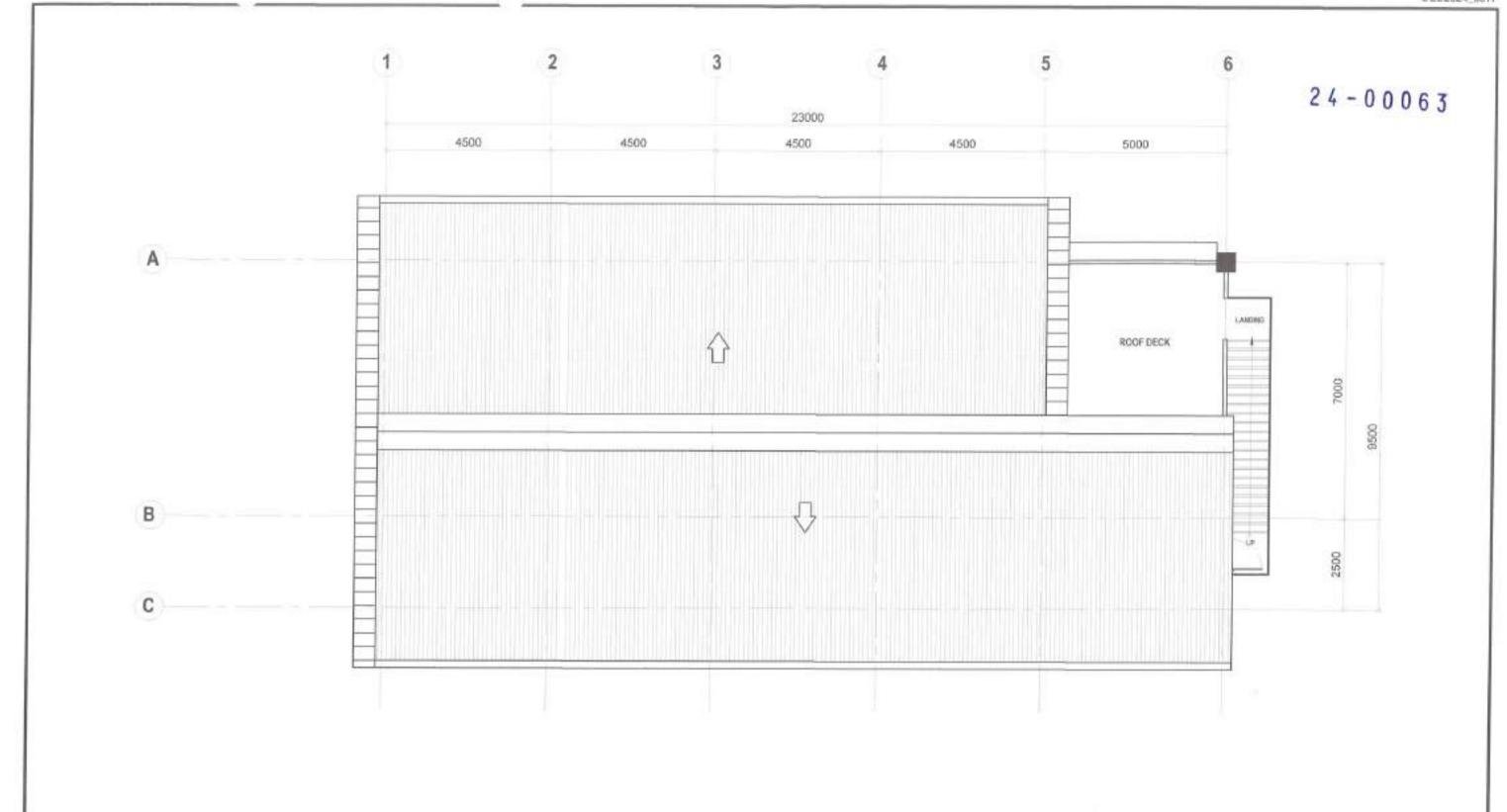
HON, MA. JOSEFINA G. BELMONTE GITY MAYOR

APPROVED BY:

SECONDO FLOOR PLAN

SHEET CONTENT

AR-05 5 29



DEPED BUILDING (ROOF PLAN)

SCALE 1100 M/S

BHEET NO.



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PROJECT TITLE : PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STALLUCIA SENIOR HIGH SCHOOL LOCATION: BARANGAY STALLUCIA, DISTRICT V, QUEZON CITY

DATE: DESIGNED BY: DRAWN BY: TAN CHECKED BY: HOW REVISION/NO:

SUBMITTED BY:

ENGR, FREDISWINGS DE GUZMAN ATTY, MARK DALE SIGMOND P. PERRAL CITY ENGRERS SIGNOOF

RECOMMENDING APPROVAL

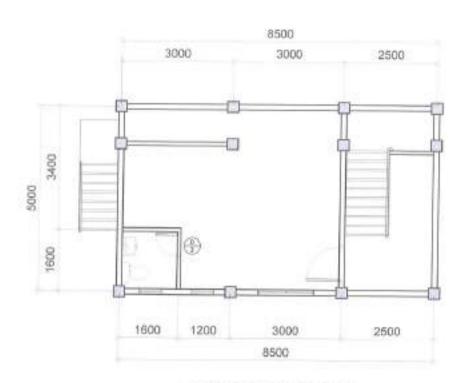
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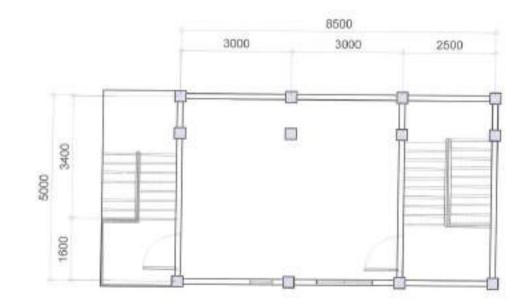
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GROUND FLOOR PLAN

SECOND FLOOR PLAN



LEGENDS:

D3= 0.60m x 2.10m

NOTE:

- . RESIZING OF WATERLINE SYSTEM
- INSTALLATION OF PUMPING SYSTEM
- . REPLACEMENT OF DOOR AT GROUND FLOOR
- REPLACEMENT OF TILES

THIRD FLOOR PLAN

SUBMITTED BY:

ROTARY BUILDING

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PROJECT TITUE!

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STALLUCIA SENIOR HIGH SCHOOL

REVISION NO.: BARANGAY STALLICIA, DISTRICT V, QUEZON CITY

DESIGNED BY

DATE

DRAWN BY: CHECKED BY: HOW

RECOMMENDING APPROVAL:

ENGR. FREDISWINDA DL. DE GUZHAN ATTY, MARK DAVE DIAMOND P. PERRAL, HON. MA. JOSEFINA G. BELMONTE

APPROVED BY:

SCALE: 1:100 MTS BREET NO.

SHEET CONTENT

ROTARY BUILDING

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GENERAL NOTES

- ALL WORKS SHALL BE EXECUTED IN ACCORDINGE TO THE LATEST EXTIDING IT THE HAT DIVAL STRUCTURAL COLDE OF THE PHILIPPRISE, THE INITIONAL BUILDING COLDE OF THE PHILIPPRISE AND OTHER RELATED LANS AND OTHERWAYS.
- ALL WORKS SHALL BE SUPERVISED BY A REDISTERED PROFESSIONAL HELATED TO THE ACTIVITIES BEING
- ALL WORKS SHALL HIS GOORDINATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS DURING EXECUTION OF ACCIVITIES.

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

 ALL DRAWINGS AND REPORTATIONS SHALL BE CONTROLLY REVIEWED BY THE DESTRACTOR AND SHALL BRECONTROLLY REVIEWED BY THE DESTRACTOR AND SHALL BRECONTROLLY REVIEWED BY THE DESTRACTOR AND SHALL BRECONTROLLY BE DESTROYED WITH THE ADTUAL CONDITION PROR TO
- SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE ENECUTION
- M.L. WORKS SHALL BE TEST ED AND COMBISSIONED AS INDICATED IN THE SPECIFICATIONS WITH THE PRESENCE OF ALL PARTIES INVOLVE: RESULTS SHALL BE COCUMENTED PROPERLY.
 MO RIPES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL NEWSBRS. UNLESS OTHERWISE ALLOWED.

10. FORMS AND SCAFFOLDING

10.1 PROVIDE ADEQUATE BROKENS AND BRACING TO WITHSTAND THE MIPOSED LOADS CLIRING CONSTRUCTION. TO ZIACIGNMENT SHALL BE STITLED BY BED AND WILDLITED PRICER TO ANY CONCSETS FOLKERS ACTIVITIES.

11. CONCRETE AND REINFORCEMENTS
11 1 ALL CONCRETE SHALL SEVELDE A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY BIGHT (28) DAYS WITH COPPLESPONDING WOUNDER SIZE ADDRESSIVE WITH COPPLESPONDING WOUNDER SIZE ADDRESSIVE WITH COPPLESPONDING.

LOCATION	STRENGTH	MAX. SIZE OF ABBREGATES	MAX SILIMP
IL SLANDS GRADE, CLANDS, PAVEMENTS, WALL FOOTING	3000 PSI (\$1 Mµa)	Tin. (25mm)	Ein. (100eim)
BEAVE COLUMNS BUSPENDED SLAB, DOLUMN FOOTING	4000 PSI (38 Mps)	34 in. (19nm)	4 is. (100mm)

11 Z.ALL REMFORCING SAFE SHALL CONFORM TO PIGER BRADE 275 (275MPs) FOR CITIZED AND SMILLER BARS AND CRICKE 415 M 15MFs FOR SHOULD BARR AND LIBERT BLARK

	DOVER FOR REMFERCING	

CONCRETE COVER	
COMMETTE DEPOSITED DIRECTLY AGAINST CROUND	75 rm
SUBSTRUCT SI,498	20 mm
SLAS ON DRACE	76.00
MALLS AROVE DRACE	25 rw
BEAMS & COLUMBS	@10.

- THA ALL ANCHOR GOLTS, DOWGLS, AND OTHER RISERTS SHALL SE PROPERLY POSITIONED AND DEDURED IN PLACE
- FROM TO PLACING OF CONCRETE.

 11.5 ALL CONCRETE BYALL BE KEPT MOST FOR A MINIMAN OF RENEW TO CONSECUTIVE DAYS IMMEDIATELY WITER POURTING BY THE USE OF WET BURLAP, FOR SPRAYING, CURRING COMPOUNDS OR OTHER APPROVED METHODS.

 11.6 EX-EDULE FOR STREPPING OF FORMS AND SHORES.

ITEMS	CURING TIME
FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	14 DAYS

BEAVE 12. STRUCTURAL STEEL AND PLATES

STRM PSAMITTOO

- 12.1 ALL STRUCTURAL STEEL SHALL CORPORE TO ARTH (A.DS. SPEDIFICATIONS WITH MINAR M WELD STRENGTH.
- 12.2 WELDING B FASTENISH BOLES, ALL BOLES SHALL CONFISION TO ASTULALING SPECIFICATIONS.

 12.3 WELDING RODG, ALL WILDING RODG SHALL SE WILD STIFF, ELECTRODE, LOW HYDROGENIZZHIE WITH
- BENDALM YIELD STRENGTH 425 MPG

IL 1 FOUNDATION IS SESIONED BASED ON NATIONAL BUILDING CODE OF THE R-ILLIPPINES FOR MY ALLOWARLE SOIL.

12 DAVS

21 DAYS

- IS TROUBDATION INDESCRIPED DISCED CONTRACTURE, INJURIAN STOLE OF THE FORMAL RESIDENCE ON BATTLES OF THE SEASON OF

- 14, MARDARY WALLS

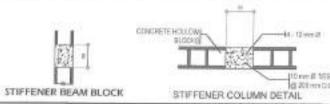
 14 I MOSTAR & GROUF FOR ALL CONCRETE MADORIT SHALL COMPORINT OLASIM 230. TYPE NA SHALL HAVE A MINROLM OF 28 DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 17.5 MFs (2500 PG).

 14 2 ALL CHE SHALL BE LAID OUT WITH THE CELLS IN UNDSTRUCTED VERTICAL CONTINUITY. ALL CELLS ESSECUALLY THOSE WITH REMYORCHEMPORE CHARL BE FULLD WITH MOSTAR.

 14 3 MEMPORCHEMPORT AS VAULLATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFED IN THE PLAN IN A ALL MASONITY WALLS SHALL BE FOOLING BY STIFFERNER AS REQUIRED

 14.4.1 FOR HEAD WALLS & EYEMF 3000 YES & COLLANY BOLLT, AT 3800 DAY ON ON CHIPTEN BE AS REQUIRED

 14.4.2 FOR DOORS & WINDOWS CHANNE FROMSE UNTEL SEAM SAME AS STIFFENER BOAM BLOCK.



600 24-00063 12-20mm Ø VERTIGAL BAR WITH 10mm Ø TIES. 3 SPACED @ 50mm, 6 @ 600 100mm, REST @ 200mm 10mmØ RSB WITH 10mm Ø TIES 1200 600 12-20mm Ø VERTICAL BAR WITH 10mm Ø TIES. 3 SPACED @ 50mm, 6 @ 100mm, REST @ 200mm 20mmØ BARS SPACED AT 150mm 50mm THICK GRAVEL BEDDING SCALE NTE

GENERAL NOTES

PROJECT TITLE

LOCATION

Limpriding Queen DEPARTMENT OF ENGINEERING

Regultika ng Pilipinis.

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

BARANGAY STALLUCIA, DISTRICT V, DUEZDN DTY

DATE DESIGNED BY DRAWN BY: VAV онеакев ву: на REVISION NO:

SLESSATTED BY

RECOMMENDING APPROVAL

APPROVED BY:

CITY NAVER

SHEET CONTENT SHEET WO.

GENERAL NOTES SERVICE ENTRANCE POST DETAILS



SERVICE ENTRANCE POST DETAILS

ENGR. FREDISWING & DE GUZMAN

ATTY. MARK DALE DIAMOND P. PERRAL CITY INCHERS, QUEZON CITY

HON, MA, SOSEFINA G. BELMONTE

ST-01 8 29

GENERAL NOTES FOR THREE-PHASE SYSTEM

- 1. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, PHILIPPINE ELECTRONICS CODE, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY
- 2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERS PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN
- 3. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS. DURING EXECUTION OF ACTIVITIES
- 4. ALL NECESSARY PERMITS SHALL SE SECURED AND TURNED OVER TO THE CITY.
- 5. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL (IMMEDIATELY BE INFORMED IF DISCREPANCY (IES) FOUND HEREIN.
- 6. ALL DIMENSIONS, ELEVATIONS AND REFERENCES, SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- 8. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATIONS WITH THE PRESENCE OF ALL PARTIES INVOLVE/ RESULTS SHALL BE DOCUMENTED PROPERLY.
- 9 ALL PIPES AND LAYOUT ARE ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPES AND PITTINGS. UNLESS OTHERWISE REQUIRED, SHALL BE PROPERLY CONCEALED.
- 10. NO PIPES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL MEMBERS, UNLESS OTHERWISE
- 11. ALL PIPES, FITTINGS, EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- 12. SUPPORTS AND HANGERS SHALL BE PROVIDED ACCORDINGLY.
- 13. ALL EQUIPMENTS AND FIXTURES SHALL BE ENVIRONMENTAL PRIENDLY.
- 14. INSTALLATION OF SERVICE ENTRANCE.

14.1. THE TYPE OF SERVICE ENTRANCE SHALL BE THREE-PHASE, THREE-WIRE PLUS GROUND, 60 HERTZ, 230V AC NOMINAL

14.2. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.

14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC MOCB IN NEMA 3R WEATHERPROOF ENCLOSURE

15. INSTALLATION OF LIGHTING AND POWER SYSTEM

15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL SE 3.5 SQ. MM. THHINTHAN COPPER WIRE LINLESS OTHERWISE NOTED. WINIMUM SIZE OF WIRE SHALL BE 1.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS.

PHASE A - RED PHASE B - YELLOW PHASE C - BLUE

NEUTRAL - WHITE

GROUND - GREEN

15.2. ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILIMETERS AND/OR CONDUIT HANGER SUPPORTS EVERY 1500 MILIMETERS.

15.3. CONDUITS IN NO CASE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY USING HYDRAULIC BENDERS, MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE GODE REQUIREMENTS.

15.4. ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLDTS FOR 230 V

15.5. PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS WARKED. "GFCI" ON THE PLAN.

15.6. ALL METALLIC CONDUITS, SWITCHES, LIGHTING FOXTURES, PANELBOARDS, EQLIPMENTS AND NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED AND BONCED.

15.7. THE GROUND RESISTANCE SHALL NOT BE MORE THAN 5 OHMS.

15.8, ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS.

DIGHTING SWITCH 1400 MM ABOVE FLOOR FINISH CONVENIENCE OUTLET 300 MM ABOVE FLOOR FINISH

150MM ABOVE WORKING COUNTER.

PANEL BOARD AND CABINETS - 1400 MM ABOVE FLOOR FINISH EXIT LIGHT - 150 MM TOP OF DOOR JAME EMERGENCY LIGHT 2000 ABOVE FLOOR EMERGENCY

15.1. PULL BOXES SHALL BE WHENEVER MECESSARYTO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON PLANS.

15.2, FOR EACH SPARE BRANCH CIRCUIT IN PANELBOARD, PROVIDE ONE 20MM DIAMETER EMPTY CONDUST TERMINATED TO 100MM OCTAGONA; BOX ABOVE CEILING, MINIMUM SIZE OF PULLBOX SHALL BE 150MM X150MM X 100MM.

15.3. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED IN THE PLANS. PANELBOARDS SHALL BE DALVANIZED SHEET POWDER COATED GAGE

15.4. FEEDER AND BRANCH CIRCUIT CONDUCTORS IN CABLE TRAYS SHALL BE GROUPED. BONDED AND TAGGED TO INDICATE CLEARLY THE ELECTRICAL CHARACTERISTICS SUCH AS CIRCUIT NUMBER AND PANEL DESIGNATION.

18.5. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.

15.8. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST. QUALITY, BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR. OCATION AND PURPOSE INTENDED.

16. INSTALLATION OF AUXILIARY SYSTEM (VOICE/DAYA SYSTEM, CLOSED CIRCUIT TELEVISION SYSTEM AND FIRE DETECTION ALARM SYSTEM

16.1. ALL AUXILIARY WIRINGS MUST REFER TO WIRE SCHEDULE AS INDICATED ON PLANS.

16.2. MINIMUM SIZE AND TYPE OF CONDUIT SHALL BE AS FOLLOWS + 20MM & PVC

VOICE DATA SYSTEM OCTV SYTEM

FDAS SYSTEM

- TEMM Ø EMTAINO

16.1. ALL EMBEDDED CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE EMTANC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILIMETERS AND/OR CONDUIT HANGER SUPPORTS EVERY 1500 MILIMETERS

18.2 ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

TELEPHONE OUTLET 300 MM ABOVE FLOOR FINISH CATY OUTLET

300 MM ABOVE FLOOR FINISH DATA OUTLET 30MM ABOVE WORKING COUNTER. CABINETS - 1400 MM ABOVE FLOOR FINISH

16.1. BOXES, WIRE, GUTTERS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:

MAX. WIDTH OF THE WIDEST

SURFACE STEEL

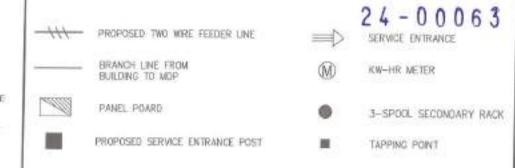
UP TO INCLUDING 152.40 NW GA 16 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT OVER 152.40 MM BUT NOT OVER 457.30 GA 14 PAINTED WITH METAL

PRIMER EPOXY AND TOPCOAT OVER 457.38 MM BUT NOT OVER 782 MM GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPODAT

OVER 762 MM GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

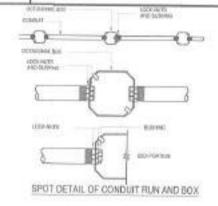
16.1. THE COMMUNICATION GROUND RESISTANCE SHALL NOT EXCEED 2 OHMS

16.8. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR. LOCATION AND PURPOSE INTENDED

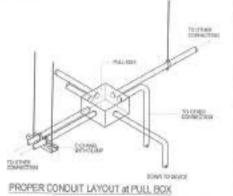


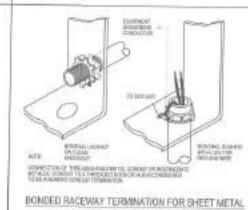


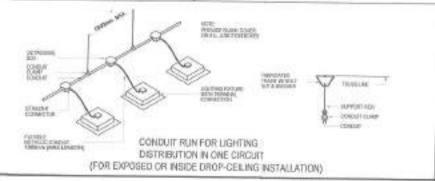
SCALE NTS.











GENERAL NOTES

Republika ng Pilipinas

Europinel ng Quezon DEPARTMENT OF ENGINEERING

Filiphening Electronic good

PROJECT TITLE:

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

DESIGNED BY

REVISION NO.

DATE

DRAWN I'm CHECKED IN BOX

SUBMITTED BY

ENGR. FREDISWIND DE GUZZAN ATTY. MARK DAYE DAMOND P. PERRAL

SCALE NTS:

RECOMMENDING APPROVAL

MISCELLANEOUS DETAILS

APPROVED BY

GENERAL NOTES EGENDS AND SYMBOLS MISCELLANEOUS DETAIL

SHEET CONTENT

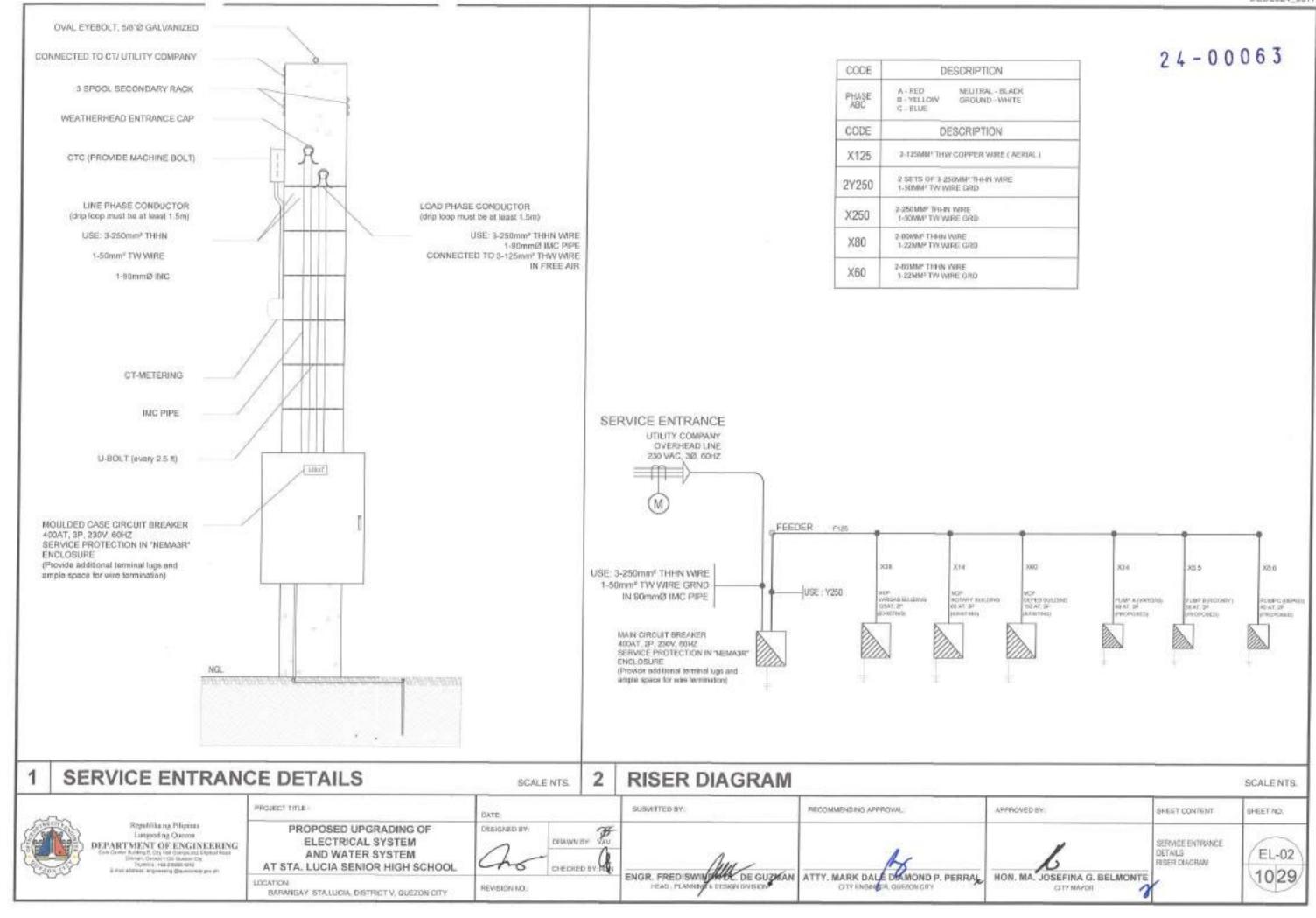
EL-01 9 29

SCALE NTS.

DWITTER

BAHANGAY STALLUCIA, DISTRICT V, QUEZON CITY

HON, MA, JOSEFINA G. BELMONTE CITY MAYOR



PANEL: MAIN DISTRIBUTION PANEL (MDP) 400AT, 400AF, 3P, 230V, MCCB MAIN: AMPERE LOAD CKT OUTLET VOLT CIRCUIT **VOLTS** OTHER LOAD SERVICE 30 SIZE OF WIRE NO. LO CO AB CA BC AMPERE BREAKER 230 VARGAS BUILDING 116.26 0.00 0.00 0.00 26740.00 125AT, 2P, MCCB 2 - 38mm2 THHN + 1 - 14mm2 TW (G) in 32mmØ IMC ROTARY BUILDING 230 58.17 0.00 0.00 13380.00 60AT, 2P, MCCB 2-14mm2 THHN +1-8.0mm2 TW (G) in 25mmØ IMC 3 230 DEPED BUILDING 0.00 0.00 0.00 147.83 34000.00 150AT, 2P, MCCB 2 - 60mm2 THHN + 1 - 22mm2 TW (G) in 40mm@ IMC 4 230 PUMP A 0.00 30.00 0.00 0.00 6900.00 60AT, 2P, MCCB 2 - 14mm2 THHN + 1 - 8.0mm2 TW (G) in 25mmØ IMC 5 230 PUMP B 0.00 13,42 0.00 0.00 3087.00 30AT, 2P, MCCB 2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (G) in 15mmØ IMC PUMPC 6 230 0.00 21.52 0.00 0.00 4950.00 40AT, 2P, MCCB 2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 20mmØ IMC.

89057.00

 $1 = (147.83 \times 1.732) + (15 \times 0.25)$

TOTAL

259.78 Amperes

123.12 147.83 0.00

116.26

Feeder Line:

Use: 3 - 250mm2 THHN + 1 - 50mm2 TW (G) in 90mmØ IMC

Distribution Feeder:

Use: 3 - 125mm2 THW in FREE AIR

CKT	VOLTS	OUTLET		OTHER LOAD SERVICE	AN	AMPERE LOAD			VOLT	CIRCUIT	
NO.		LO	CO	OTHER LOAD SERVICE	AB	CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE
1	230			LPP1	30.70				7060.00	100AT, 2P, MCCB	2 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmØ IMC
2	230			LPP2	28.52				6560.00	100AT, 2P, MCCB	2 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmØ IMC
3	230			LPP3	28.52				6560.00	100AT, 2P, MCCB	2 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmØ IMC
4	230			LPP4	28.52				6560.00	100AT, 2P, MCCB	2 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmØ IMC

SUBMITTED BY:

1 = (26740 / 230) x 80% DF

PROJECT TITLE

93.01 Amperes

Feeder Line:

Use: 2 - 38mm2 THHN + 1 - 14mm2 TW (G) in 32mm@ IMC

SCHEDULE OF LOADS



PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL LOCATION

BARANGAY STALUCIA, DISTRICT V, QUEZON CITY

DATE DESIGNED BY: REVISION NO.:

DRAWN BY: VAV CHECKED BY:

ENGR. FREDISWALLED, DE GUZMAN ATTY, MARK DALE DIAMOND P. PERRAL

RECOMMENDING APPROVAL

SHECDULE OF LOADS HON. MA. JOSEFINA G. BELMONTE

APPROVED BY

EL-03 1129

BHEET NO.

SHEET CONTENT

PANEL: VARGAS BUILDING: LPP1 (EXISTING) MAIN: 40AT, 100AF, 2P, 230V, MCCB

CKT	VOLTS:	OU	TLET	OTHER LOAD SERVICE	AN	APERE LO	AD	3Ø	VOLT	CIRCUIT	rine or time
NO.	VOLIS	LO	CO	OTHER LOAD SERVICE	AB	CA	BC	340	AMPERE	BREAKER	SIZE OF WIRE
1	230	12			5.22				1200	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
2	230	15			6.52				1500	20AT, ZP, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
3	230			6 - WALL FAN	2.61				600	20AT, ZP, Bolt-On	2-3.5mm3 THHN+1-2.0mm3 TW (G) in 20mmØ PVC
4	230		7		5.48				1260	20AT, 2P, Bolt-On	2 + 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
5	230			FACP	2.17				500	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN +1 - 2.0mm2 TW (G) in 20mmØ PVC
6	230			SPARE	4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
7	230			SPARE	4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
8	230			5PARE							
	TOTAL					0.00	0.00	0.00	7060.00		

1 = 7060 / 230

30.70 Amperes

Feeder Une:

Use: 2 - 8.0mm2 THHN + 1 - 5.5mm3 TW (G) in 25mmØ IMC

PANEL: VARGAS BUILDING: LPP2, LPP3 & LPP4 (TYPICAL - EXISTING)

MAIN! ADAT SOME 30 320W BACCO

CKT NO.	VOLTS -	ou	TLET	OTHER LOAD SERVICE	AN	PERE LO	AD	3Ø	VOLT	CIRCUIT	CIRC OC MINE		
NO.	VOCIS	LO	CO	OTHER COAD SERVICE	AB	CA	BC	340	AMPERE	BREAKER	SIZE OF WIRE		
1	230	12			5.22				1200	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC		
2	230	15			6.52				1500	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC		
3	230			6 - WALL FAN	2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (G) in 20mmØ PVC		
4	230		7		5.48				1260	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC		
5	230			SPARE	4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC		
6	230			SPARE	4,35				1000	20AT, 2P, Bolt-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (G) in 20mmØ PVC		
	-		TOTA	IL.	28.52	0.00	0.00	0.00	6560.00				

1 = 6560 / 230

28.52 Amperes

Feeder Line:

Use: 2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 25mmØ IMC

SCHEDULE OF LOADS



Republika ng Pilipinas Linguid ng Quezon DEPARTMENT OF ENGINEERING

PROJECT TITLE

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

BARANGAY, STALLUCIA, DISTRICT V, QUEZON CITY

DATE DESIGNED BY: DRAWN BY YAY CHECKED BY: HIS

REVISION NO.

SUBMITTED BY:

ENGR. FREDISWAND DL. DE GUZMAN ATTY. MARK DALF DIAMOND P. PERRAL. HON. MA. JOSEFINA G. BELMONTE

RECOMMENDING APPROVAL

APPROVED BY

SCHEDULE OF LOADS

SPEET CONTENT

EL-04 1229

SHEET NO.

PANEL: ROTARY BUILDING: DISTRIBUTION PANEL (EXISTING)

MAIN: 60AT, 100AF, 2P, 230V, MCCB

CKT	VOLTS	OU	TLET	OTHER LOAD SERVICE	AA	APERE LO	AD	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
NO.	ADLIS	LO	CO	OTHER COAD SERVICE	AB	CA	BC	390	AMPERE	BREAKER	SIZE OF WIRE
1	230	14			100	6.09			1400	20AT, 2P, Bolt-On	2 - 3.5mm² THHN +1 - 2.0mm² TW (G) in 20mmØ PVC
2	230	15				6.52			1500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN +1 - 2.0mm² TW (G) in 20mmØ PVC
3	230		1.0			7.83			1800	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm3 TW (G) in 20mmØ PVC
4	230		9			7.04			1620	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
5	230			2 HP ACU		11.00			2530	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN +1 - 3.5mm2 TW (G) in 20mmØ PVC
6	230			2 HP ACU		11.00			2530	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (G) in 20mmØ PVC
7	230			SPARE		4.35			1000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN +1 - 2.0mm² TW (G) in 20mmØ PVC
8	230			SPARE		4.35			1000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
										Decil 2. = 50 - 10.00 (0.1)	
	TOTAL					58.17	0.00	0.00	13380.00		

I = {13380 / 230} x 80% D.F.

46.54 Amperes

Use: 2 - 14mm2 THHN + 1 - 8.0mm2 TW (G) in 25mmØ IMC

PANEL: DEPED BUILDING: DISTRIBUTION PANEL (EXISTING)

MAIN: 150AT 200AE 2P 230V MCCB

CKT	VOLTS -	OUT	TLET	OTHER LOAD SERVICE	AN	IPERE LO	AD	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
NO.	VULI3	LO	CO		AB	CA	BC	340	AMPERE	BREAKER	SIZE OF WIRE
1	230			LPP1			36.96		8500.00	50AT, 2P, MCCB	2 - 14mm2 THHN + 1 - 8.0mm2 TW (G) in 25mmØ IMC
2	230			LPP2			36.96		8500.00	50AT, 2P, MCCB	2 - 14mm² THHN +1 - 8.0mm² TW (G) in 25mmØ IMC
3	230			LPP3			36.96		8500.00	50AT, 2P, MCCB	2 - 14mm2 THHN + 1 - 8.0mm2 TW (G) in 25mmØ IMC
4	230			LPP4	12		36.96		8500.00	50AT, 2P, MCCB	2 - 14mm² THHN +1 - 8.0mm² TW (G) in 25mmØ IMC
	TOTAL					0.00	147.83	0.00	34000.00		

1 = (34000 / 230) x 80% D.F.

118.26 Amperes

Feeder Line:

Use: 2 - 80mm2 THHN + 1 - 22mm2 TW (G) in 50mmØ IMC

SCHEDULE OF LOADS



Republika ng Pilipinan Lungsid ng Quesson DEPARTMENT OF ENGINEERING De tim Bushing B. Day half Georges on Kitchaul B Distance Cornel | 100 Deletion Day Transfer | 002 2 5000 642 Employeess anglessoning Bassistaning posteri

PROJECT TITLE

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA, LUCIA SENIOR HIGH SCHOOL

BARANGAY STALLUCIA, BISTRICT V. QUIEZON CITY

DESIGNED BY:

REVISION NO.:

DRAWN BY VAV

BUBMITTED BY

RECOMMENDING APPROVAL

SCHEDULE OF LOADS

APPROVED BY

EL-05 13 29

SHEET NO.

SHEET CONTENT

ENGR. FREDISWIND THE DESIGN OF SERVICE OF STREET CHESTON OF PERRAL HON. MA. JOSEFINA G. BELMONTE

PANEL: DEPED BUILDING: LPP1, LPP2, LPP3 & LPP4 (TYPICAL - EXISTING)

MAIN: FOAT 100AF 2P 230V MCCB

CKT	VOLTS :	OU	TLET	OTHER LOAD SERVICE	AN	APERE LO	AD	205	VOLT	CIRCUIT	CONT. CONT. LABOR.
NO.	VOLIS	LO	CO	OTHER LOAD SERVICE	AB	CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE
1	230	15			6.52				1500	20AT, 2P, Bolt-On	2 - 3.5mm3 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
2	230	14			6.09				1400	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
3	230		6		4.70				1080	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN +1 - 2.0mm2 TW (G) in 20mmØ PVC
4	230		6		4,70				1080	20AT, 2P, Bolt-On	.2 - 3,5mm² THNN +1 - 2.0mm² TW (G) in 20mmØ PVC
5	230			4+ ORBIT FAN	3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN +1 - 2.0mm2 TW (G) in 20mmØ PVC
6	230			4- ORBIT FAN	3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
7	230			SPARE	4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
8	230			SPARE	4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
						3					
			TOTA	L.	36.96	0.00	0.00	0.00	8500.00		

1 = 10760 / 230

36.96 Amperes

Feeder Line:

Use: 2 - 14mm2 THHN + 1 - 8.0mm2 TW (G) in 25mmØ IMC

PANEL: PUMP A (VARGAS BUILDING) - PROPOSED

MANINE COAT SOURT OR SOON MACCO

CKT	VOLTS -	Off	TLET	OTHER LOAD SERVICE	AN	MPERE LO	AMPERE LOAD		VOLT	CIRCUIT	CORE OF MODE
VO.	VOLIS	LO	CO AB CA BC AMPERE BREAKER	BREAKER	SIZE OF WIRE						
1	230			BOOSTER PUMP		15.00			3450	40AT, 2P, Bolt-On	2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 20mmØ IMC
2	230			BOOSTER PUMP		25.00			3450	40AT, 2P, Bolt-On	2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 20mmØ IMC
3	230			SPARE							
4	230			SPARE							
	1.50										
			TOTA	AL	0.00	30.00	0.00	0.00	6900.00		

SUBMITTED BY:

1 = (6900 / 230) + (15 x 0.25)

33.75 Amperes

Feeder Line:

Use: 2 - 14mm2 THHN + 1 - 8.0mm2 TW (G) in 25mmØ IMC

SCHEDULE OF LOADS



Republikarig Pilipinas Languading Quezon
DEPARTMENT OF ENGINEERING PROJECT TITLE

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

BARANGAY STALLUCIA, DISTRICT V, QUEZON CITY

DESIGNED BY:

REVISION NO.:

DATE

DRAWNBY: VAV онескез вт нак

ENGR. FREDISWIN LED. DE GUZMAN ATTY. MARK DAVE DIAMOND P. PERRAL, HON. MA. JOSEFINA G. BELMONTE

RECOMMENDING APPROVAL:

APPROVED BY

SCHEDULE OF LOADS

SHEET CONTENT

EL-06 1429

SHEET NO.

PANEL: PUMP B (ROTARY BUILDING) - PROPOSED

MAIN: 30AT, 100AF, 2P, 230V, MCCB

CKT	VOLTS -	OU	TLET	OTHER LOAD SERVICE	:AA	MPERE LO	AD	305	3Ø VOLT AMPERE	CIRCUIT	FOR OF MIDE
NO.	1.00.00000000	LO	co		AB	CA	BC	260		BREAKER	SIZE OF WIRE
1	230			BOOSTER PUMP		6.90			1587	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (G) in 15mmØ IMC
2	230			SPARE		6.52			1500	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW (G) in 15mmØ IMC
_	TOTAL				0.00	13.42	0.00	0.00	3087.00		

 $I = (3087 / 230) + (6.9 \times 0.25)$

15.15 Amperes

Feeder Line:

Use: 2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (G) in 15mmØ IMC

PANEL: PUMP C (DEPED BUILDING) - PROPOSED

MAIN- MAT 100AE 2P 230W MCCB

CKT NO.	VOLTS -	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD			200	VOLT	CIRCUIT	SIDE OF WEDS
		LO	CO	OTHER COAD SERVICE	AB	CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE
1	230			BOOSTER PUMP		15.00			3450	40AT, 2P, Bolt-On	2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 20mmØ IMC
2	230		_	SPARE		6.52			1500	30AT, 2P, Bolt-On	2 - 5.5mm ² THHN + 1 - 3.5mm ² TW (G) in 15mmØ IMC
			TOTA	M.	0.00	21.52	0.00	0.00	4950.00		

I = (4950 / 230) + (15 x 0.25)

PROJECT TITLE:

25.27 Amperes

Feeder Line:

Use: 2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 20mmØ IMC

SCHEDULE OF LOADS



Republikang Pilipinas Langsol og Quecon DEPARTMENT OF ENGINEERING

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

BARANGAY STALLICIA, DISTRICT V, QUEZON CITY

DATE DESIGNED BY: DPUWN BY: VAV CHECKED BY: HOW REVISION NO.:

SUBMITTED BY:

ENGR. FREDISWINS & DESIGN DISSERVE ATTY, MARK DALE SUMOND P. PERRAL HON, MA. JOSEFINA G. BELMONTE

PECOMMENDING APPROVAL

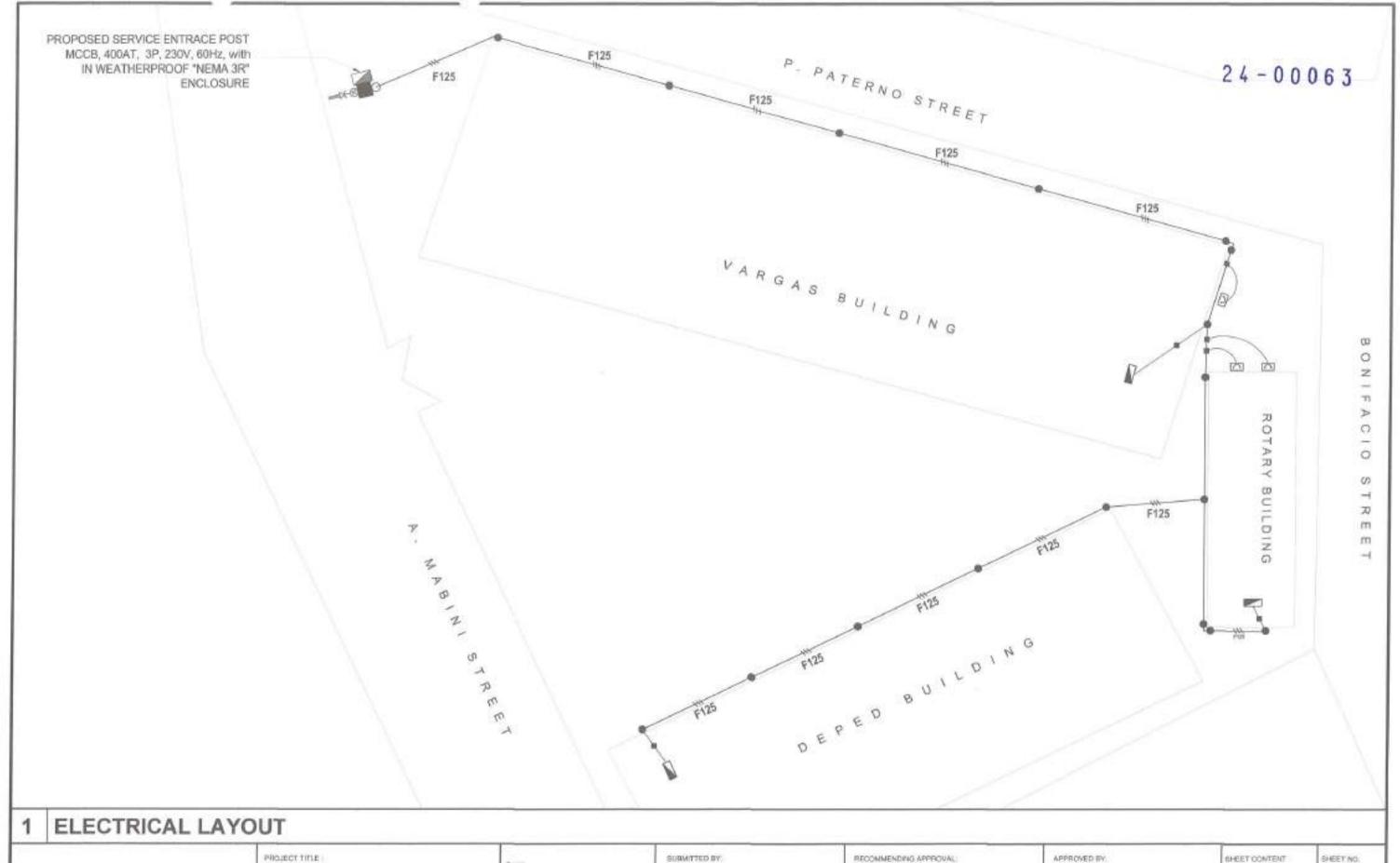
APPROVED BY:

SCHEDULE OF LOADS

SHEET CONTENT

EL-07 15 29

SHEET NO.





Republika ng Pilipinas
Lungsod ng Queens

DEPARTMENT OF ENGINEERING
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PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

LOCATION: BARANGAY STALUCIA, DISTRICT V, QUEZON CITY DEBIGNED BY:

DRAWN BY: VAV

CHECKED BY: A

REVISION NO:

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ENGR. FREDIS		Ā
ENGR. FREDIS		1

	A								
IN	ATTY, MARK DALLY DIAMOND P. PERRAL OTVENSION DESCRIPT								

4	ELECTRICAL LAYOUT
	imag-substitution (1976) Yan in
HON. MA. JOSEFINA G. BELMONTE	

EL-08 16 29

- ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE UNIFORM PLUMBING CODE OF THE PHILIPPINES. THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY.
- 2. ALL WORKS SHALL BE SUPERMISED BY A REGISTERED PROPESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTWICH.
- 3. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS DURING EXECUTION OF
- 4. ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED OVER TO THE CITY
- S. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL INVEDIGITELY BE INFORMED IF DISCREPANCY (IEST FOUND HEREIN.
- S. ALL DIMENSIONS, ELEVATIONS AND REFERENCES SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- IL ALL WORKS SHALL BY TESTED AND COMMISSIONED AS INDIGATED IN THE SPECIFICATION WITH THE PRESENCE OF ALL PARTIES INVOLVE. RESULT SHALL BE DOCUMENTED PROPERLY.
- II: ALL PIPES AND LAY OUT ARE ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPES AND FITTINGS, UNLESS OTHERWISE.
- 10. NO PIPES BHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL REMBERS. UNLESS OTHERWISE APPROVED.
- 11. ALL PIPES, FIFTINGS, DOUPMENT AND FIXTURE SHALL FASS THE MINIMUM STANDARDS AS PER MATERIAL. SPECIFICATION WITH THE SEAL OF APPROVAL BY THE DEPARTMENT OF TRADE AND INDUSTRY.
- ALL PIPES, PITTINGS, COUPMENT AND FOTURES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURERS. SPECIFICATION AND INSTRUCTION.
- IS. SUPPORT AND HANGERS SHALL BE MIDWIDED ACCORDINGLY.
- 14. ALL EQUIPMENT A FOCUSES SHALL SE ENVIRONMENTAL FRIENDLY (SUCK AS WATER EFFICIENT FIXTURES)
- 15. WATERLINE
- 15.1. WATERLINE SHALL BE PPR TYPE.
- 16.2. GATE VALVE SHALL BE PPR TYPE OR APPROVED EQUIVALENT.
- 15.3. WATER METER SHALL BE ANY BRAND AND ACCEPTED BY THE WATER LITELITY COMPANIES.
- 15.4. ALL WATER PIPER EXPOSED TO WEATHER CONDITIONS HALL BE MADE OF ICL.
- 16.1. ALL STORM DRAWAGE SLOPE SHALL BE WITHIN 0.5% TO 4%.
- 16.2 STORM DRAMAGE LINE 250MIND AND BLOW SHALL BE PVC, 250MIND & ABOVE SHALL BE PENFORCED CONCRETE
- 17. SEWERLINE
- 17.1. ALL SLOPES FOR SANITARY SHALL CONFORM A 2% SLOPE.
- 17.8 BOIL, WASTE, & VENT PIPE SHALL BE (POLYVINY), CHLORIGE) PVC OR THE APPROVED EQUAL.
- 17.3. CLEAN OUTS MUST BE PROVIDED FOR BANITARY VERTICAL PIPES AND DACH HORIZONTAL PIPE BHALL SE. PROVIDED WITH A CLEAN OUT AT IT'S UPPER TERMINAL, EVERY CHANGE IN DIRECTION AND EVERY 30M OF A. STRAIGHT PIPE. CLEANQUIS CAN SE OWITTED IF THE EFFECTIVE LENGTH IS LESS THAN 1.5M.
- 17.4. ALL DRAMAGE FIXTURE SHALL BE SUPPLIED WITH APPROPRIATE VENT LATION.
- THE FOOTLERES
- 18.1. WATER CLOSETS SHALL BE FREE STANDING TOLET COVERNATION, ROUND PRONT BOTTOM OUTLET SIPHON VORTEX OR WASH-DOWN BOWL WITH EXTENDED REAR SILF AND CLOSE COUPLED TANK WITH COVER COMPLETE WITH FITTING AND MOUNTING ACCESSORIES AND WATER EFROIENT.
- 18.2. LAVATORY SHALL BE VITREDUS CHINA, WALL HUNG WITH REAR OVERFLOW, POCKET HANGER WITH INTEGRAL CHINA BRACKET, COMPLETE WITH STAINLESS STEEL LEVER TYPE HEAVY DUTY FAUCET, SUPPLY PIPES, PUTRAP
- 18.3. URINAL SHALL BE VITREOUS CHINA, WALL HUNG WASH OUT URINAL WITH EXTENDED SHIELDS AND INTEGRAL. PLUSH SPREADER, CONCEALED WALL HANGER POCKETS, 19MM TOP SPUD COMPLETE FITTING AND MOUNTING. ACCESSORIES, INCLUDING URNAL PARTITION.
- 18.4. GRAS BARS SHALL DE PROYIDED ON ALL PWD FOLEY AND SHALL BE MADE OF TUBULAR STAINLESS STEEL PIPE PROVIDED WITH SAFETY GRIP AND MOUNTING FLANGE.
- 18.5, FLOOR DRAINS SHALL BE MADE OF BTAINLESS BEDING: TYPE, MEASURING 100MM X 100MM AND PROVIDED WITH DETACHABLE STANLESS STRANGR, EXPANDED METAL LATH TYPE.
- U.S. TOLLET PAPER HOLDER SHALL BE VITNEDUS CHINA WALL MOUNTED, COLOR SHALL RECONCILE WITH THE ADJACENT FIXTURE AND FACING TILES.
- 18.7. SOAP HOLDER SHALL BE VITREOUS CHWA WALL WOUNTED, COLOR SHALL RECONCILE WITH THE ADJACENT FIXTURE AND FACING TILES.
- THE FAUCET SHALL BE MADE OF STANLESS RITERLIEVER TYPE HEAVY DUTY FOR INTERIOR USE.
- 16.9. HOSE BIBB SHALL BE MADE OF STAINLESS STEEL LEVER TYPE HEAVY DUTY.
- 18.10. ROTCHEN SINK PAUCET SHALL BE MADE OF STANLESS STEEL LEVER TYPE HEAVY DUTY GOOSE NECKTYPE WITH COMPLETE ACCESSORIES.

 WATER DISTRIBUT 	TION SYST	TEM :	16.	FIXTUE	IES AND OTHER LEGENO
OWL OWS/CWDF GY II UP WM		COLD WATER LINE COLD WATER RISER/DOWNFEED GATE VALVE CHECK VALVE UNION PATENTE WATER METER		-0.00	FLOOR DRAIN ROOF DRAIN SHOWER WATER CLOSET LAYATORY URINAL KITCHEN SINK
IL SEWER/WASTE AND VENT SYSTEM:			(3)		
	S/WP P S S	SOIL PIPE / WASTE PIPE VENT STACK / VENT PIPE STORM DRAIN PIPE DRAINAGE STACK / DOWNSPOUT SOIL STACK FLOOR CLEANOUT / GROUND CLEANOUT		GT FOG DS CB	GREASE TRAP FLOORIGROUND CLEANOUT DOWNSPOUT GATCH BASIN

LEGENDS AND SYMBOLS

SCALE NTS.

DESIGNATION QUANTITY LOCATION		EDCATION	CESCRIPTION	HEMARKS	
(1)	T VARGAS BUILDING GOMPLETE WITH INLET PORT, DRAIN PORT,		PRESSURE TANK STAINLESS STEEL, GAMIA, 224 GALS CAPACITY COMPLETE WITH INLET PORT, DRAIN PORT, PRESSURE GAUGE AND PRESSURE SWITCH SET AT # PBI CUT-INICUT-OFF PRESSURE.	LOCALLY FRENCHIED AND VACTORY TESTION AT THE PROMOTER'S PRESSURE	
<u>₩</u>	1	LOCALLY FARR CATED AND PACTORY TEXTED X7 166 Pel MICRONY, PRESSURE			
1 DEPED BUILDING CAPACITY OF MIS GALLONS. COMPLETE WITH BUILD, BADDLE STRAP INLET PORT, DUTLET		WATER TANK, STAINLESS STEEL CONSTRUCTION, F THICK WITH A CAPACITY OF MS GALLONS, COMPLETE WITH MANHOLE LADGER FUNG, BADDLE STRAP INLET PORT, DUTLET PORT, VENT, DRAIN, PORT AND MANHOLE COMER, VERTIGALLY INSTALLED.	LOCALLY FARRENCED AND PACTORY TOUTER AT 150 PROVIDED ONLY ESSABLE		
(F)	BOOSTER PUMP, CENTRIFUGALLY END-SUCTION, CAST-FRON CASING STAINLESS STEEL SHAFT, MECHANICAL SEAL, HARD PLASTIC IMPELLER, W.A. GAP ACTY OF 55 GALLONS PER MINUTE. AGAINST 185 FT. TOTAL DYNAMIC HEAD, CLOSED FOR MINUTE. AGAINST 185 FT. TOTAL DYNAMIC HEAD, CLOSED TO A 3 D. MP. 220, 19, 60H2 HIGH EPPICENT MOTOR COMPLETE W. ELECTRODES OVERHEAD TANK ALTERNATOR AND OTHER ACCESSIORES NEEDED FOR AUTOMATIC AND PARALLEL OPERATION.		CONTRACTOR SURFALL ALCIDENCE SHE APPROVED EQUAL		
(F)	CASING STAINLESS STEEL BHAFT, MECHANICAL SEAL, HAR PLASTIC IMPELLER, UV A CAPACITY OF 17 GALLONS PER M		ELECTRODES OVERHEAD TANK, ALTERNATOR AND OTHER ACCESSORIES NEEDED FOR AUTOMATIC AND PARALLEL.	ECHTRACTOR BURNLY & HAZALL NOTOR SHALL RE US MICH OR ARERQUED EQUAL	
(1)	t	MOTARY BUILDING	TRANSPER PUMP, CENTRIFUGAL END-SUCTION, CAST-RON CASING, HARD PLASTIC IMPELLER, STAIMLESS STEEL SHAFT, MECHANICAL SEAL, HARD PLASTIC IMPELLER WITH A CAPACITY IF 100 GALLON PER MINUTE AGAINST 12D FT. TOTAL DYNAMIC HEAD, CLOSE COUPLED TO A 3.0 HP, 220V, 14, 50HZ HIGH EFFICIENT MOTOR, CONPLETE WITH CONTROLLER AND OTHER ACCESSORIES NEEDED FOR AUTOMATIC, PARALLEL GRERATION.	CONTRACTOR SUPPLY A NETALL MOTOR BANK L RELIE MADE ON APPROVED EQUAL	

GENERAL NOTES

SCALE NTS.

EQUIPMENT SCHEDULE 3

SCALE NTS.

SHEET NO.



Republika ng Pilipinas Langsod og Ouezen DEPARTMENT OF ENGINEERING PROJECT TITLE

PROPOSED UPGRADING OF **ELECTRICAL SYSTEM** AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

BARANGAY STALLICIA, DISTRICT V, QUEZON CITY

DEGIGNED BY

DHAWWEY: VAV CHECKED BY: 91

GUBMITTED BY:

ENGR. FREDISVADA BL. DE GUZMAN ATTY, MARK DALE DIAMOND P. PERRAL

PECONWENDING APPROVAL

HON, MA. JOSEFINA G. BELMONTE,

APPROVED BY:

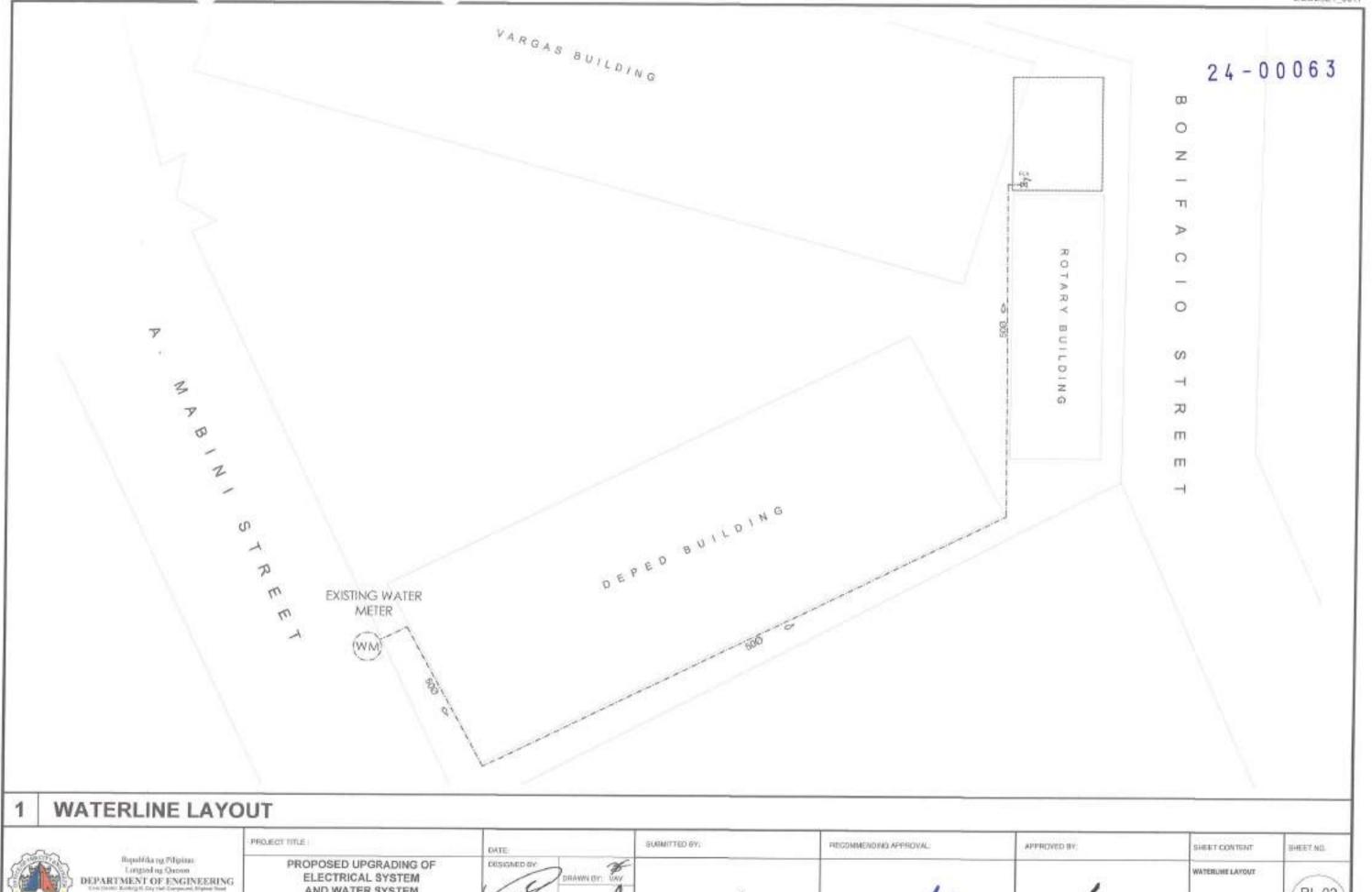
LEGENOS AND SYMBOLS EQUIPMENT SCHEDULE

SHEET COSTENT

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PL-02

18 29



ENGR. FREDISWIND CE GUZMAN ATTY, MARK DALE DIAMOND P. PERRAL HON. MA. JOSEFINA G. BELMONTE

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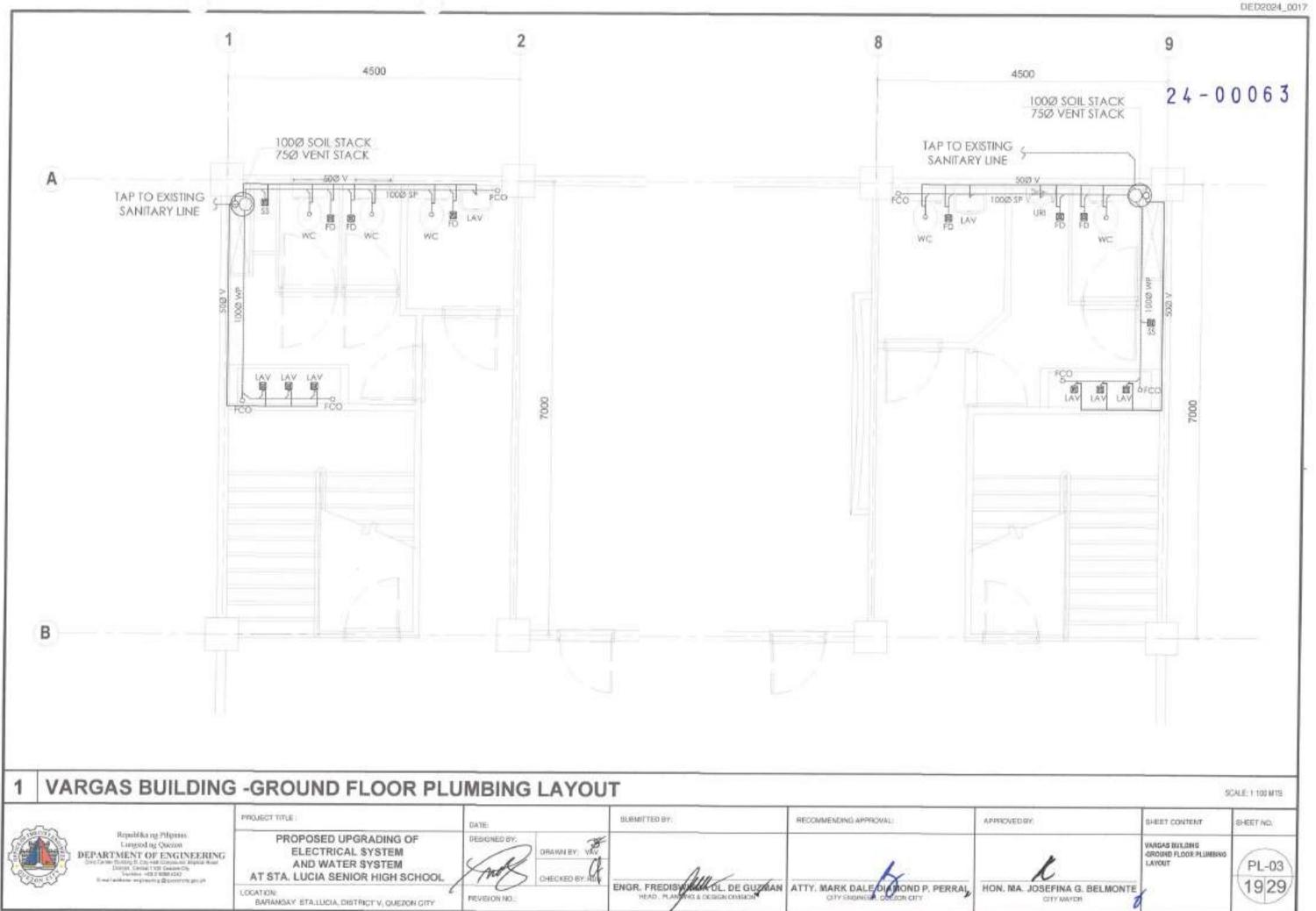
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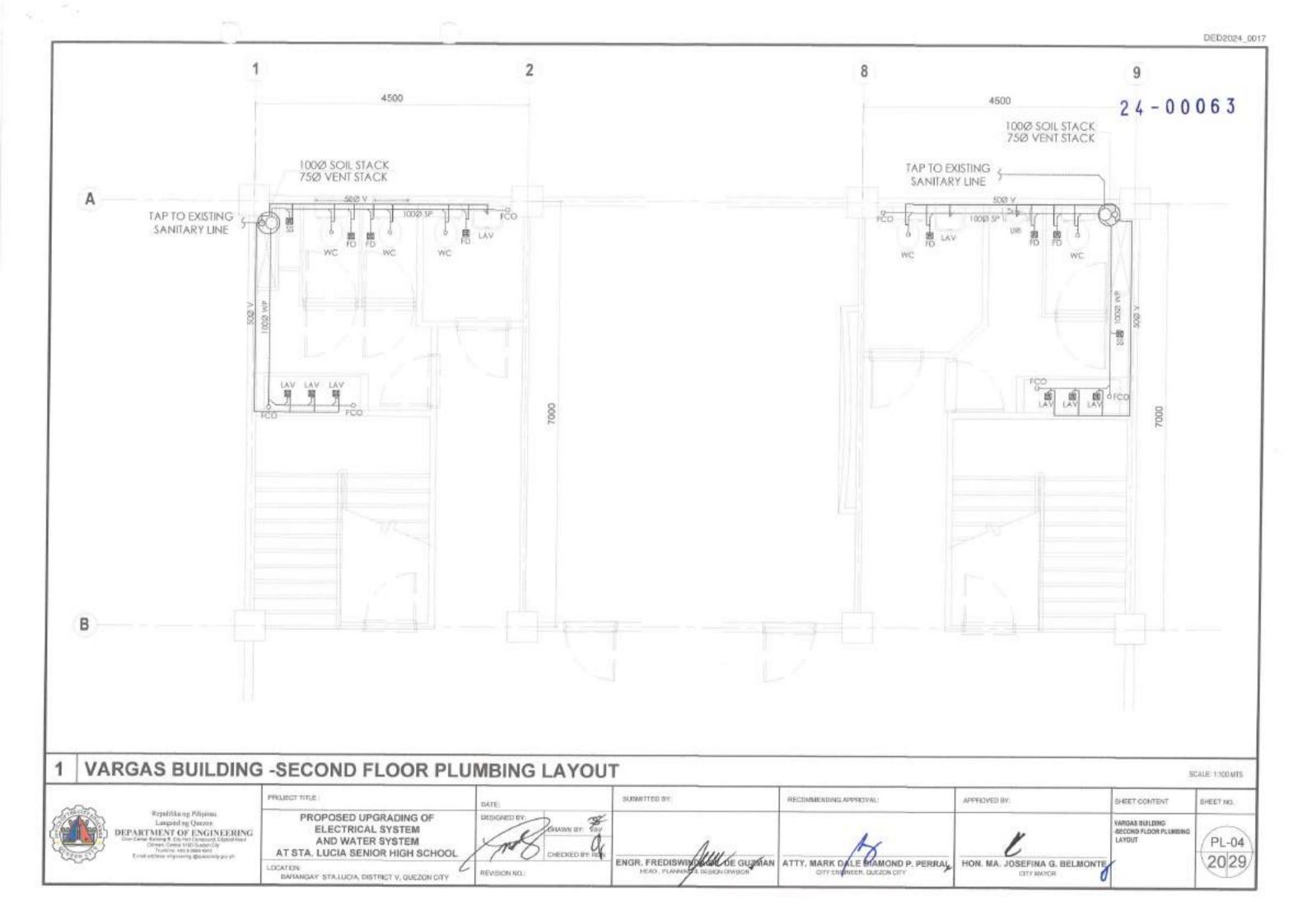
AND WATER SYSTEM

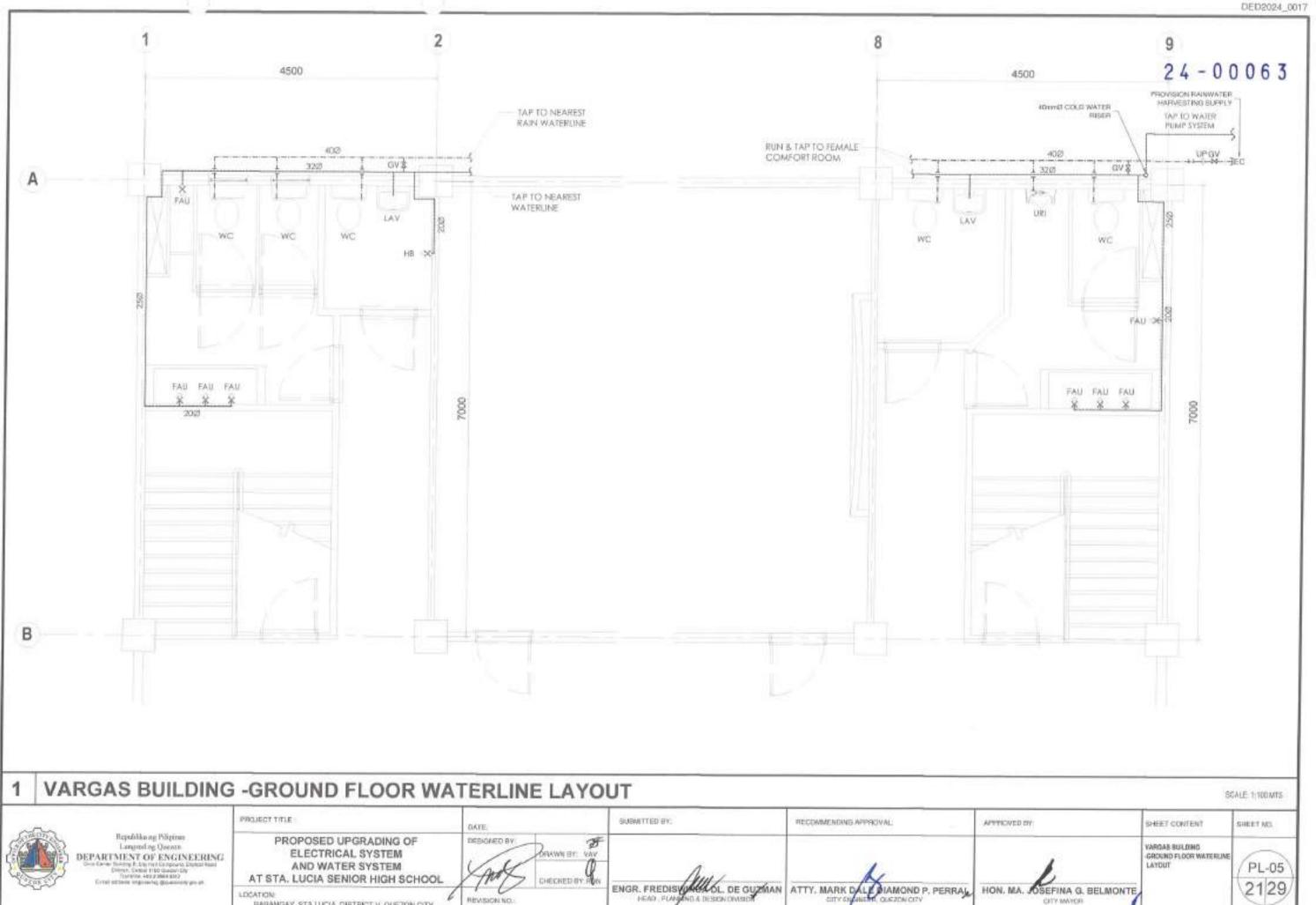
AT STAL LUCIA SENIOR HIGH SCHOOL

BARANGAY STALUCIA, DISTRICT V, QUEZON CITY

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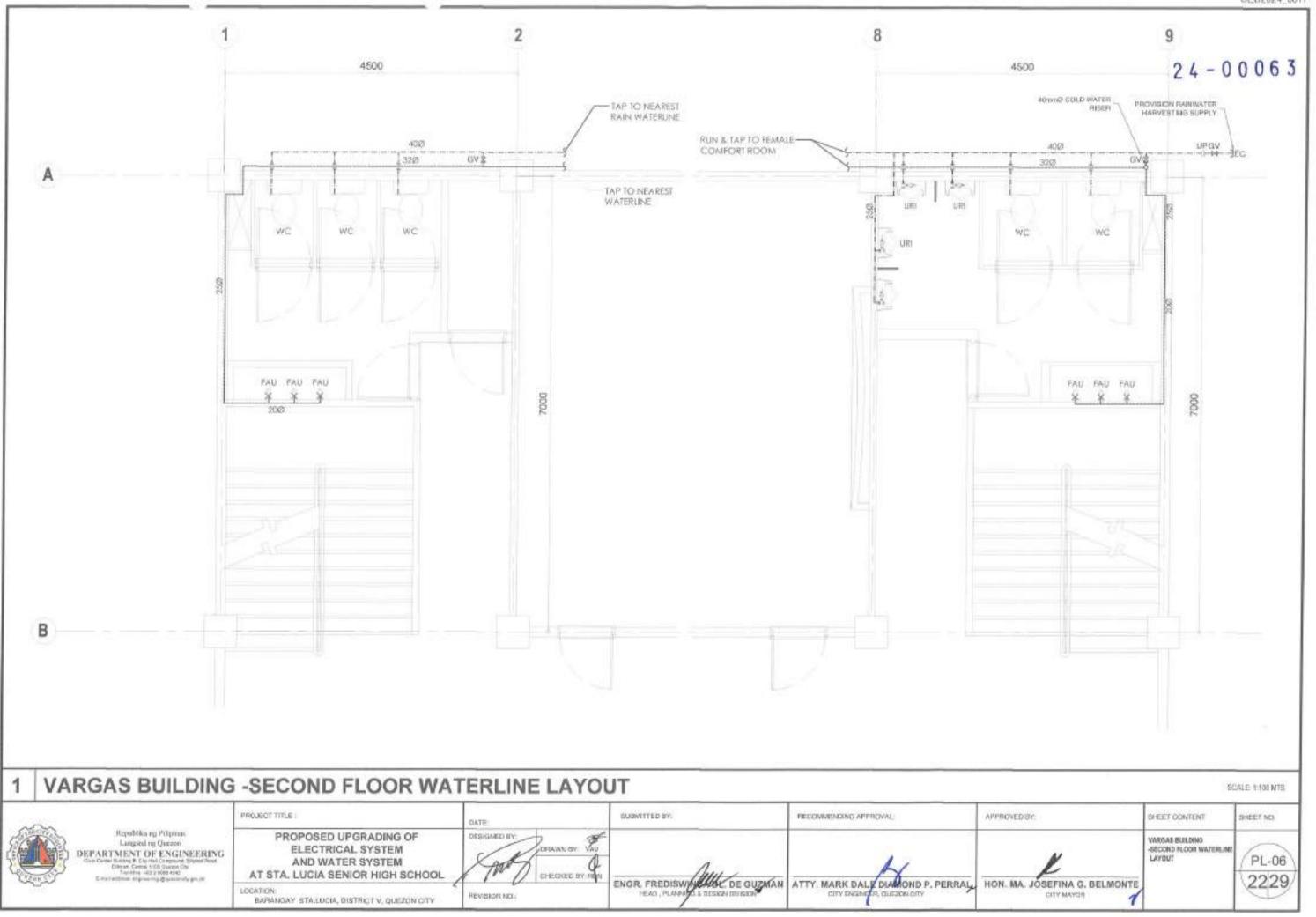


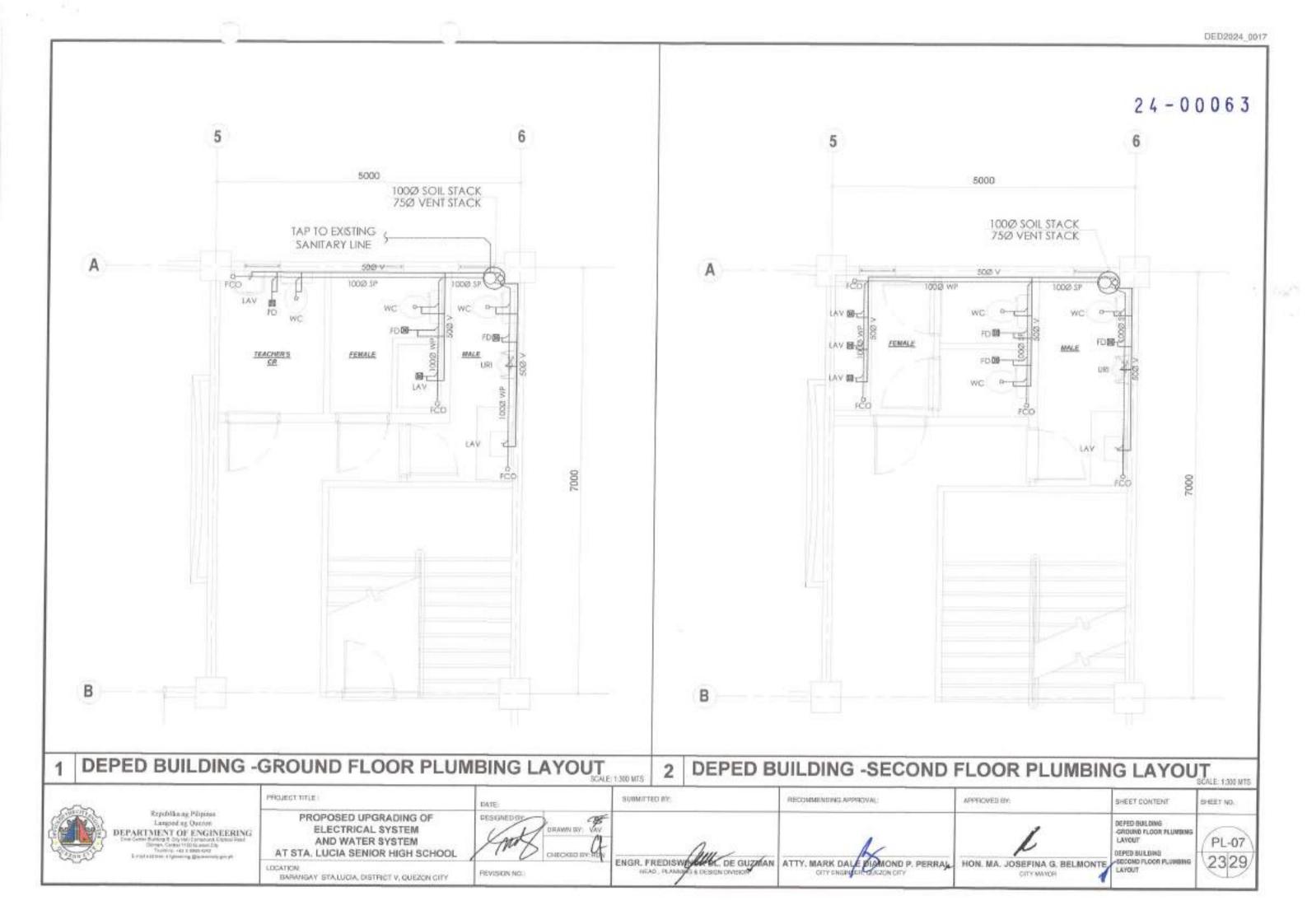


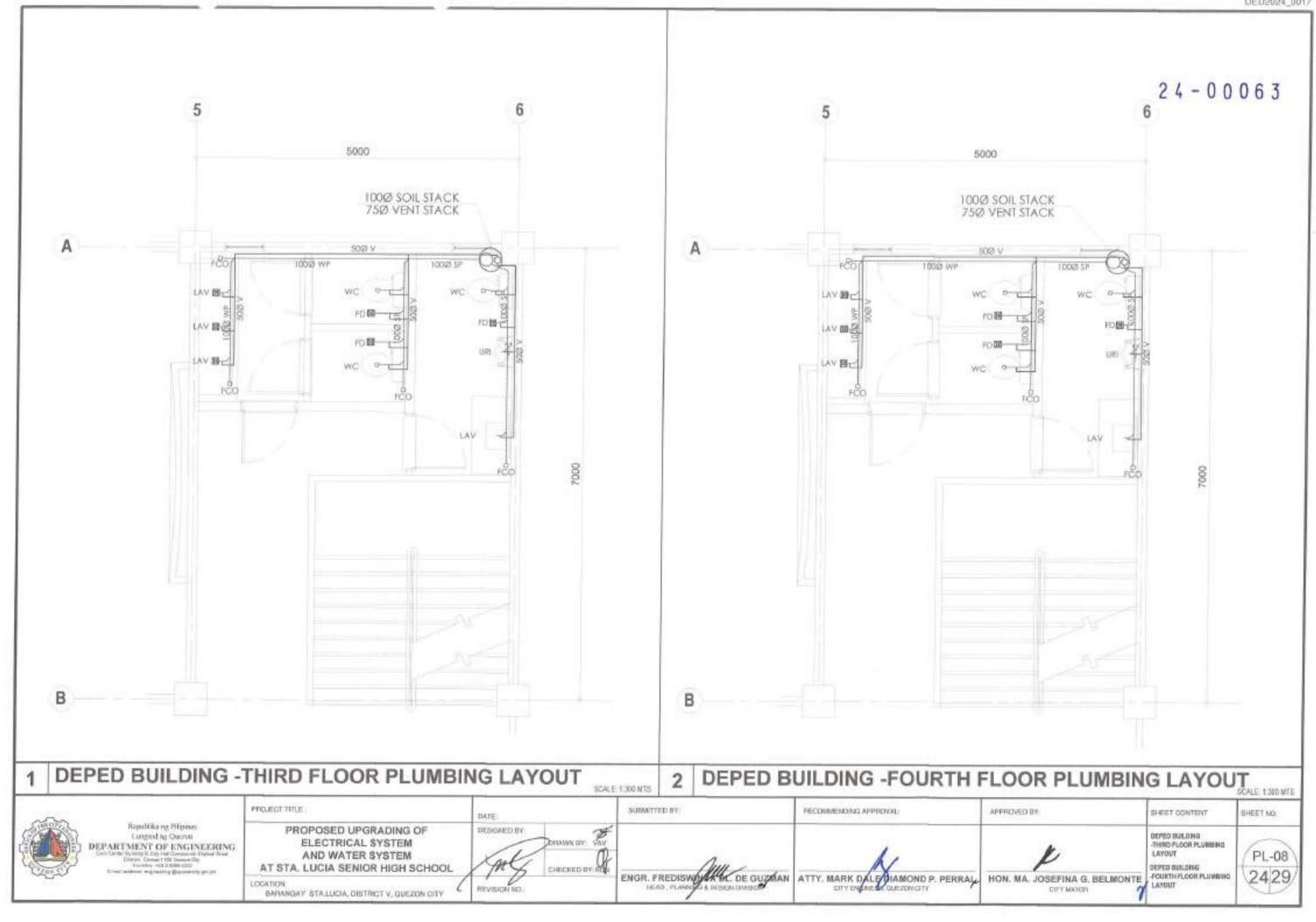


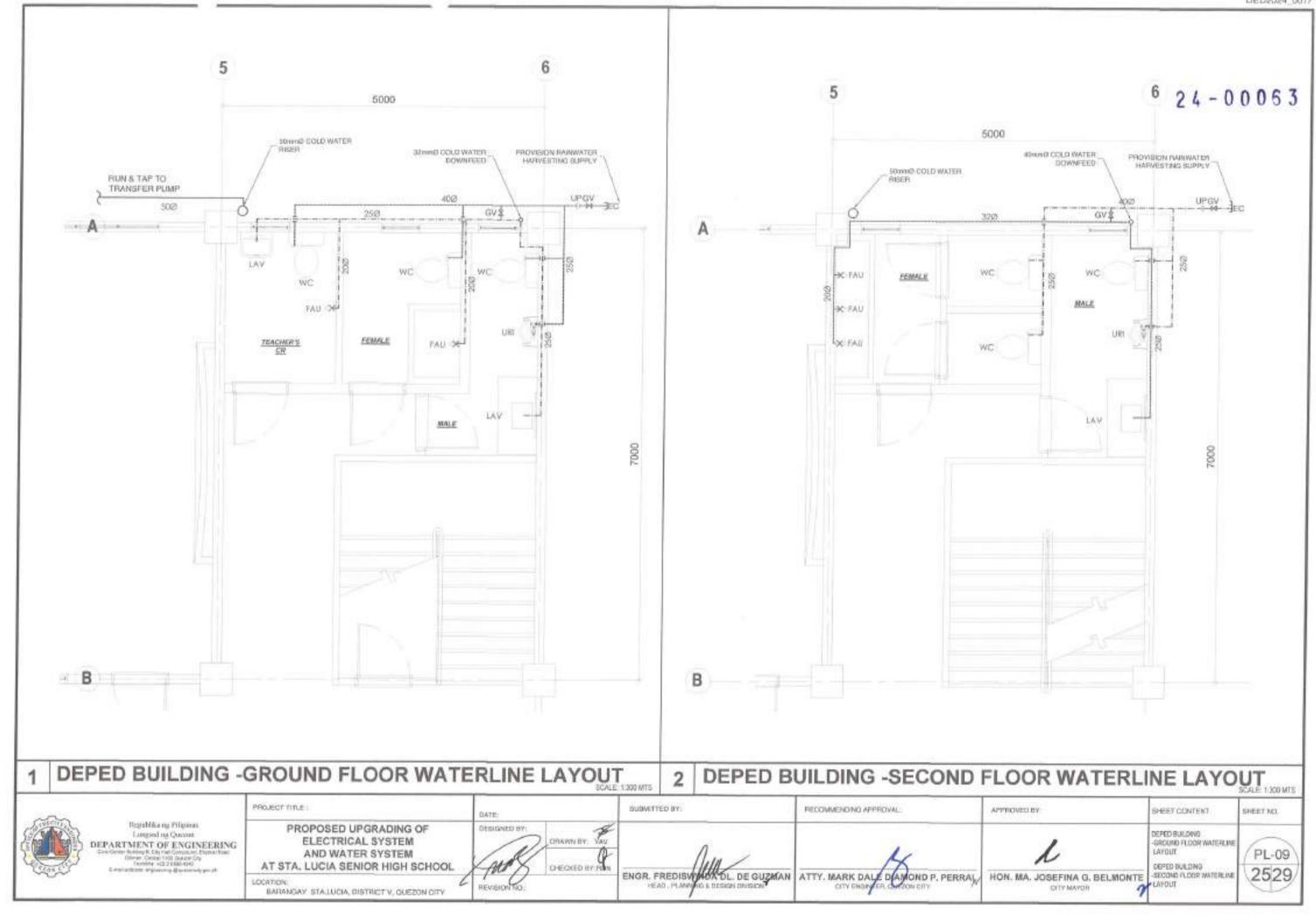
REVISION NO.

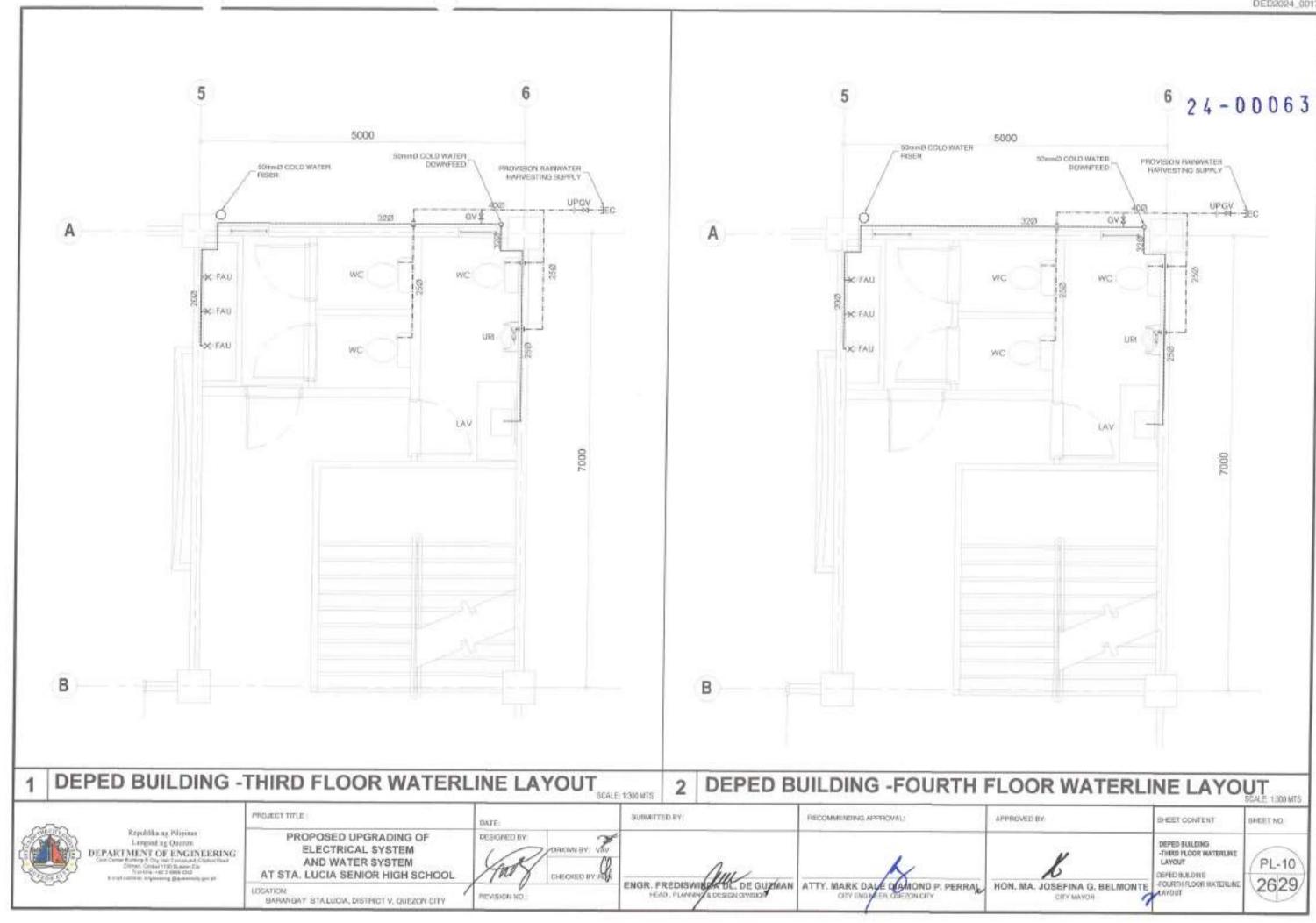
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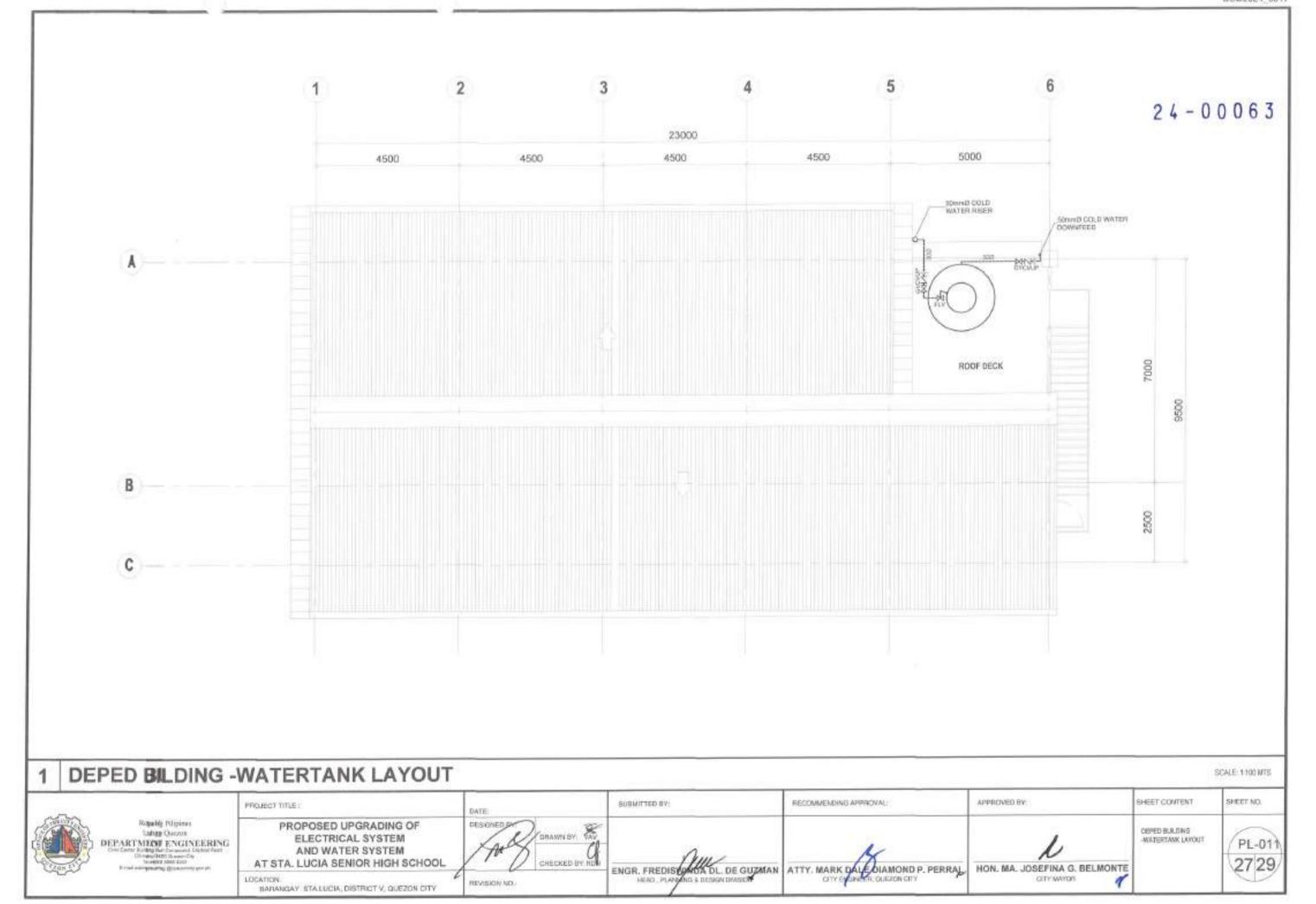




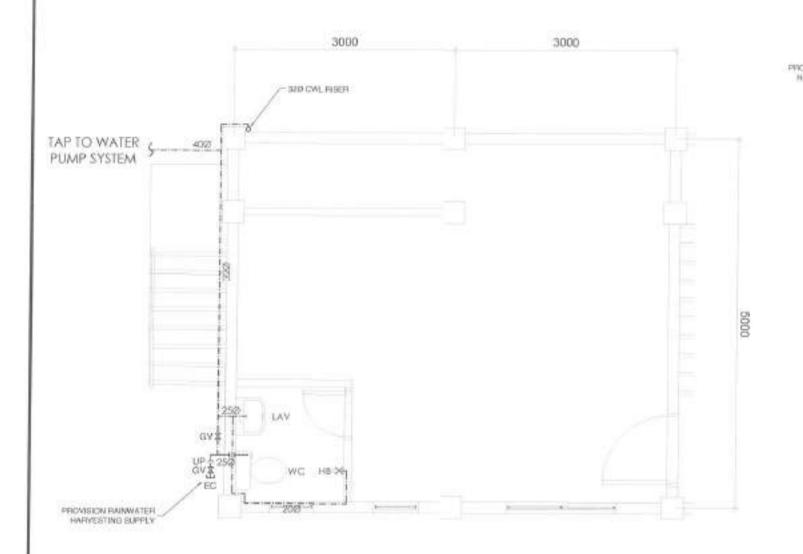


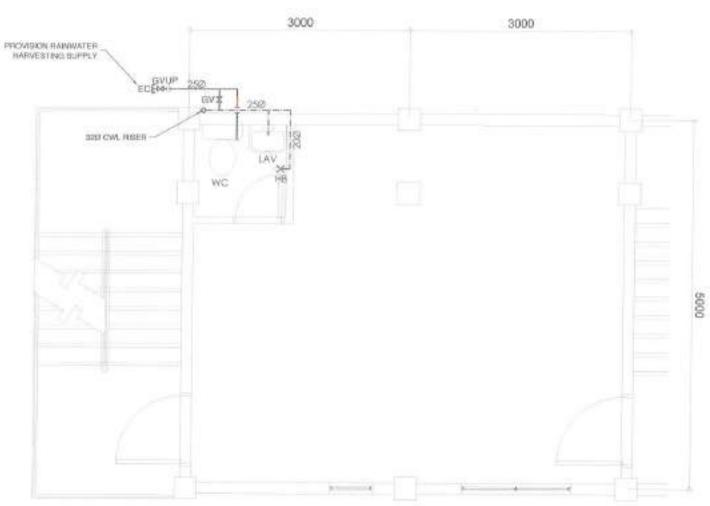






24-00063





GROUND FLOOR PLAN

SECOND FLOOR PLAN

ROTARY BUILDING WATERLINE LAYOUT

SCALE 1:200 WTS

SHEET NO.



Republika ng Pilipinas Linguid ng Chicase

DEPARTMENT OF ENGINEERING

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Chime Company (10) Gauge Cay

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Engine Employees of Gaussinsky prop PROJECT TITLE

PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

BARANGAY STALUCIA, DISTRICT V, QUEZON CITY

DESIGNED BY DRAWN BY: ZAV

SUBMITTED BY:

ENGR. FREDISTANDA DE GUZMAN ATTY. MARK DALE DIAMOND P. PERRAL

RECOMMENDING APPROVAL:

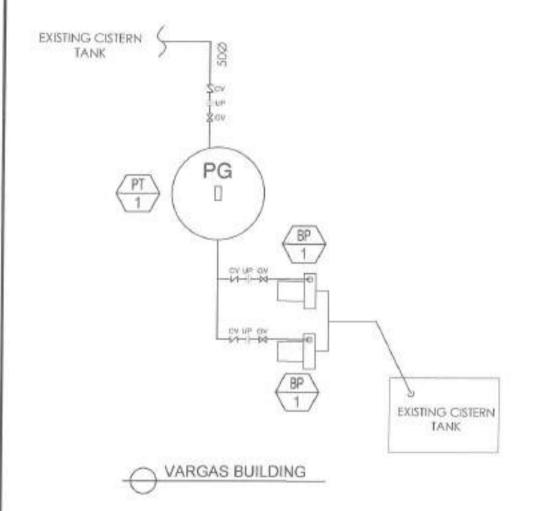
ROTARY BUILDING WATERLINE LAYOUT HON, MA. JOSEFINA G. BELMONTE

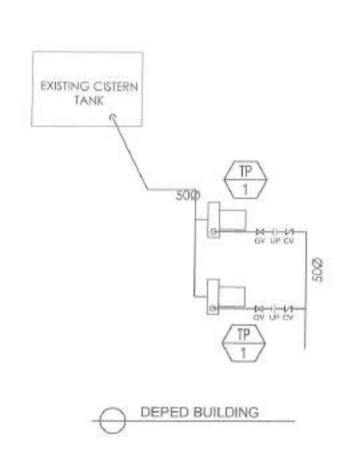
APPROVED BY:

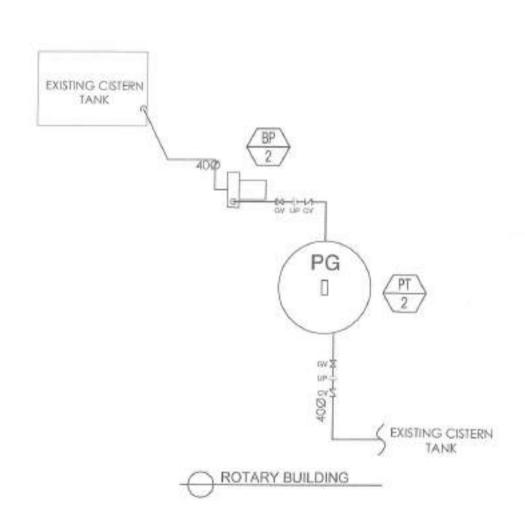
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SHEET CONTENT

24-00063







1 WATER PUMP SYSTEM

SCALE: NTS

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DEPARTMENT OF ENGINEERING
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PROPOSED UPGRADING OF
ELECTRICAL SYSTEM
AND WATER SYSTEM
AT STA, LUCIA SENIOR HIGH SCHOOL
LOGATION.
BARANGAY STALLUCIA, DISTRICT V, QUEZON CITY

DESIGNACIONY;
DESIGNACIONY;
DEVISION NO:

CHECKED BY FOR ENGR. FREDISWARD BOTH

SUBMITTED BY:

ENGR. FREDISWOOD DE GUZMAN ATTY, MARK DALE DIAMOND P. PERRAL,

RECOMMENDING APPROVAL

HON, MA. JOSEFINA G. BELMONTE

APPROVED BY

WATER PLWP SYSTEM PL-13
29 29

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE: PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

LOCATION : BARANGAY STA. LUCIA, DISTRICT 5, QUEZON CITY

PROJECT NO. : 24 - 00063

DURATION : One Hundred Twenty (120) Calendar Days

BREAKDOWN OF COST

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT	TO	OTAL MARK-UP	VAT	TOTAL INDIRECT COST	TOTAL COST
I I EW NO.	DESCRIPTION	COST	%	VALUE	VAI	TOTAL INDIRECT COST	TOTAL COST
PART I	OTHER GENERAL REQUIREMENTS						
PART II	DEPED BUILDING						
PART III	VARGAS BUILDING						
PART IV	ROTARY BUILDING						
PART V	SITE DEVELOPMENT						
	TOTAL						

TOTAL COST P_____

UMP SUM BID IN WORDS :	
Contractor:	

Page 3 of 3 Bid Form

BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED UPGRADING OF ELECTRICAL SYSTEM AND WATER SYSTEM AT STA. LUCIA SENIOR HIGH SCHOOL

LOCATION : BARANGAY STA. LUCIA, DISTRICT 5, QUEZON CITY

PROJECT NO. : 24 - 00063

DURATION : One Hundred Twenty (120) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT	MARK	(-UP IN %	TO	TAL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
I I EW CODE	DESCRIPTION	QUANTITY	UNII	COST	OCM	PROFIT	%	VALUE	VAI	COST	TOTAL COST	UNIT COST
PART I	OTHER GENERAL REQUIREMENTS											
B.5	Project Billboard / Sign Board	1	ea									
B.7(1)	Occupational Safety and Health	4	mo									
B.9	Mobilization	1	lot									
B.9	Demobilization	1	lot									
B.20	Temporary Enclosure	24	l.m									
B.24	Scaffolding (Rental)	155	m ²									
	TOTAL OF PART I											
PART II	DEPED BUILDING											
PART A	CIVIL, SANITARY/PLUMBING AND MECHANICAL WORKS											
PART II-A	REMOVAL WORKS											
800(1)	Clearing and Grubbing	30	m²									
801(1)	Removal of Actual Structures / Obstruction	4	m²									
800(1)	Removal of Tiles	293	m²									
800(1)	Removal of Plumbing Fixtures	13	ea									
801(1)	Removal of Ceiling Board Including Framing	60	m²									
801(1)	Removal of Doors	27	m²									
801(1)	Chipping Works	1	m ³									
	TOTAL OF PART II-A											
PART II-B	PLAIN AND REINFORCED CONCRETE WORKS											
900(3)c	Structural Concrete (Site Mix, 3000psi, 28 days)	1	m ³									
902(1)a	Reinforcing Steel (Deformed), Grade 40	14	kg									
903(2)	Formworks and Falseworks	3	m²									
	TOTAL OF PART II-B											

ITEM CODE	DECODIDATION	DESCRIPTION QUANTITY UNIT ESTIMATED DIRECT		MAR	K-UP IN %	TO	TAL MARK-UP	VAT.	TOTAL INDIRECT	TOTAL COST	LINIT COOT	
ITEM CODE	DESCRIPTION	QUANTITY	UNII	COST	ОСМ	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART II-C	FINISHING AND OTHER CIVIL WORKS											
II-C.1 Moistur												
	Waterproofing, Liquid	122	m²									
II-C.2 Masonr												
1021(3)a	Floor Topping, Plain	162	m²									
	ry and Joinery Works											
1003(1)e1	Ceiling, Metal Frame, MR Gypsum Board	63	m²									
	Urinal Partition	4	ea									
II-C.4 Floor Fi	nishes											
1018(1)	Glazed Tiles	282	m ²									
1018(2)	Unglazed Tiles	67	m ²									
II-C.5 Installat												
	Doors (Flush)	29	m ²									
	, Varnishing and Other Related Works											
	Painting Works, Masonry / Concrete	72	m ²									
1032(1)b	Painting Works, Wood	63	m ²									
	TOTAL OF PART II-C											
PART II-D	SANITARY/PLUMBING WORKS											
II-D.1 Sewer L	ine Works											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	182	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	168	l.m.									
II-D.2 Water L	ine Works											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	15	l.m.									
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	33	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	22	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger	29	l.m.									
	50mm Ø PPR Pipe and Fittings with Hanger/Support	143	l.m.									
II-D.3 Plumbir	ng / Sanitary Fixtures											
1002 (5) b	Water Closet, Elongated, Flush Valve Type, with Complete	12	set									
1002 (5) D	Accessories, Pipes and Fittings	12	SEL									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	4	set									
	Lavatory Wall Hung with Faucet and Complete											
1002 (14) a	Accessories, Pipes and Fittings Floor Drain, 100mmØ, Stainless with Complete	1	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete	12	set									
1002 (10) 83	Accessories and Fittings Lavatory Drain, 100mmØ, Stainless with Complete	12	361									
1002 (16) a4	Accessories and Fittings	14	set									
1002 (21)	Lavatory Faucet	14	set									
1002 (21)	Hose Bibb	1	set									
II-D.4 Valves a		 	ે									
1201(12) d1	40mm Ø Gate Valve	8	рс							 		
1201(12) d1 1201(12) d2	40mm Ø Union Patente	4	рс							1		
	50mm Ø Gate Valve	4	pc							1		
1201(12) e1 1201(12) e2	50mm Ø Union Patente	4	pc		-					+		
_ ` '	50mm Ø Check Valve	4										
1201(12) e3 1201(12) e4	50mm Ø Float Valve	2	pc		-							
1201(12) 64		<u> </u>	рс									
	TOTAL OF PART II-D											

ITEM CODE	DECODIDATION	QUANTITY	UNIT	ESTIMATED DIRECT	MARK	C-UP IN %	TO	TAL MARK-UP	VAT	TOTAL INDIRECT	TOTAL 000T	LINIT COST
I I EW CODE	DESCRIPTION	QUANTITY	UNII	COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART II-E	MECHANICAL WORKS											
1201(2)	Transfer Pump with Control	2	set									
1201(9) a	Water Tank (Stainless)	1	set									
	TOTAL OF PART II-E											
	TOTAL OF PART A											
PART III	VARGAS BUILDING											
PART B	CIVIL, SANITARY/PLUMBING AND MECHANICAL WORKS											
PART III-A	REMOVAL WORKS											
800(1)	Clearing and Grubbing	65	m²									
801(1)	Removal of Actual Structures / Obstruction	3	m²									
800(1)	Removal of Tiles	502	m²									
800(1)	Removal of Plumbing Fixtures	22	ea									
801(1)	Removal of Doors	36	m²									
801(1)	Chipping Works	1	m ³									
	TOTAL OF PART III-A											
PART III-B	PLAIN AND REINFORCED CONCRETE WORKS											
900(3)c	Structural Concrete (Site Mix, 3000psi, 28 days)	1	m ³									
902(1)a	Reinforcing Steel (Deformed), Grade 40	14	kg									
903(2)	Formworks and Falseworks	3	m²									
	TOTAL OF PART III-B											
PART III-C	FINISHING AND OTHER CIVIL WORKS											
III-C.1 Moistui	re Protection											
	Waterproofing, Liquid	115	m²									
III-C.2 Masonr												
1021(3)a	Floor Topping, Plain	115	m²									
	try and Joinery Works											
	Urinal Partition	6	ea									
III-C.4 Floor F												
(.)	Glazed Tiles	391	m ²									
()	Unglazed Tiles	153	m ²									
III-C.5 Installa												
	Flush Door	37	m ²									
	g, Varnishing and Other Related Works											
1032(1)a	Painting Works, Masonry / Concrete	69	m ²									
	TOTAL OF PART III-C											

				ESTIMATED DIRECT	MARK	-UP IN %	TO	TAL MARK-UP	T	TOTAL INDIRECT		LINUT COST
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	COST		PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART III-D	SANITARY/PLUMBING WORKS						7.4					
III-D.1 Sewer												
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	246	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	223	l.m.									
III-D.2 Water												
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	35	l.m.									
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	75	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	116	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger	172	l.m.									
	50mm Ø PPR Pipe and Fittings with Hanger/Support	12	l.m.									
III-D.3 Sanitai	y / Plumbing Fixtures											
1002 (5) b	Water Closet, Elongated, Flush Valve Type, with Complete Accessories, Pipes and Fittings	20	set									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	13	set									
1002 (13)	Slop Sink with Faucet and Complete Accessories, Pipes and Fittings	2	set									
1002 (14) a	Lavatory Wall Hung with Faucet and Complete Accessories, Pipes and Fittings	2	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	27	set									
1002 (16) a4	Lavatory Drain, 100mmØ, Stainless with Complete Accessories and Fittings	24	set									
1002 (21)	Lavatory Faucet	26	set									
1002 (22)	Hose Bibb	1	set									
III-D.4 Valves												
1201(12) d1	40mm Ø Gate Valve	11	рс									
1201(12) d2	40mm Ø Union Patente	4	рс									
1201(12) e1	50mm Ø Gate Valve	3	рс									
1201(12) e2	50mm Ø Union Patente	3	рс									
1201(12) e3	50mm Ø Check Valve	3	рс									
	TOTAL OF PART III-D											
PART III-F	MECHANICAL WORKS											
1201(6) a2	Booster Pump with Control	2	set									
1201(10) a2	Pressure Tank (Stainless)	1	set									
	TOTAL OF PART III-F											
	TOTAL OF PART B											
PART IV	ROTARY BUILDING											
PART C	CIVIL, SANITARY/PLUMBING AND MECHANICAL WORKS											
PART IV-A	REMOVAL WORKS											
801(1)	Removal of Doors	2	m²									
800(1)	Removal of Plumbing Fixtures	4	ea									
800(1)	Removal of Tiles	26	m²								<u> </u>	
801(1)	Chipping Works	1	m ³									
	TOTAL OF PART IV-A											
	1			1					1	1		1

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT	MARK	K-UP IN %	TO	ΓAL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
I I EM CODE	DESCRIPTION	QUANTITY	UNII	COST	OCM	PROFIT	%	VALUE	T VAI	COST	TOTAL COST	UNITCOST
PART IV-B	FINISHING AND OTHER CIVIL WORKS											
IV-B.1 Moisture Protection												
	Waterproofing, Liquid	12	m ²									
IV-B.2 Mason												
	Floor Topping, Plain	5	m ²									
IV-B.3 Floor F												
1018(1)	Glazed Tiles	22	m ²									
1018(2)	Unglazed Tiles	5	m ²									
IV-B.4 Installa	ation of Door											
(=)	Flush Door	2	m ²									
IV-B.5 Painting,	Varnishing and Other Related Works											
1018(1)	Painting Works, Masonry / Concrete	9	m ²									
	TOTAL OF PART IV-B											
PART IV-C	SANITARY/PLUMBING WORKS											
IV-C.1 Water												
	20mm Ø PPR Pipe and Fittings with Hanger/Support	8	l.m.									
	25mm Ø PPR Pipe and Fittings with Hanger/Support	8	l.m.									
	32mm Ø PPR Pipe and Fittings with Hanger/Support	15	l.m.									
		10	l.m.									
IV-C.2 Plumb	ing / Sanitary Works											
1002 (5) a	Water Closet, Elongated, Tank Type, with Complete Accessories, Pipes and Fittings	2	set									
1002 (14) a	Lavatory Wall Hung with Faucet and Complete Accessories, Pipes and Fittings	2	set									
1002 (22)	Hose Bibb	2	set									
IV-C.3 Valves												
	25mm Ø Gate Valve	4	рс									
	25mm Ø Union Patente	2	рс									
	40mm Ø Gate Valve	2	рс									
- () -	40mm Ø Union Patente	2	рс									
1201(12) d3	40mm Ø Check Valve	2	рс									
	TOTAL OF PART IV-C											
PART IV-E	MECHANICAL WORKS											
1201(6) a1	Booster Pump with Control	1	set									
1201(10) a1	Pressure Tank (Stainless)	1	set									
	TOTAL OF PART IV-E											
	TOTAL OF PART C											

ITEM CODE	DECODIDATION	OLIANITITY	LINUT	ESTIMATED DIRECT	MARK	K-UP IN %	TO	TAL MARK-UP	VAT.	TOTAL INDIRECT	TOTAL COOT	LINUT COST
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART V	SITE DEVELOPMENT											
PART D	ELECTRICAL WORKS											
V-A.1 Condu	its, Boxes and Fittings											
1100 (2) a	15mmØ IMC Pipe	2	рс									
1100 (2) b	20mmØ IMC Pipe	2	рс									
1100 (2) c	25mmØ IMC Pipe	2	рс									
1100 (2) i	90mmØ IMC Pipe	2	рс									
V-A.2 Wires a	and Wiring Devices											
1101	5.5mm² THHN Wire and 3.5mm² TW Wire	12	l.m.									
1101	8.0mm ² THHN Wire and 5.5mm ² TW Wire	12	l.m.									
1101	14mm ² THHN Wire and 8.0mm ² TW Wire	12	l.m.									
1101	250mm ² THHN Wire and 60mm ² THW Wire	18	l.m.									
1101	125mm² THW Wire	480	l.m.									
V-A.3 Panelb	oard with Main and Branch Breakers											
1102	MCB, 400AT, 3P	1	set									
1102	ECB, 60AT, 2P	1	set									
1102	ECB, 40AT, 2P	1	set									
1102	ECB, 30AT, 2P	1	set									
V-A.4 Utility a												
1111	Reinforced Concrete Pole (Service Entrance)	1	set									
	TOTAL OF PART D							_				
	GRAND TOTAL											

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

Leg	al Do	ocuments
	(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;
		<u>and</u>
	(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
	(e)	Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Тес	chnica	ul 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;
		<u>and</u> registration for the type and cost of the contract to be bid; <u>and</u>
	(i)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a
		certification issued by the Insurance Commission;
		<u>or</u>
		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 Original duly signed Omnibus Sworn Statement (OSS); □ (k) 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 The prospective bidder's audited financial statements, showing, among others, the \square (1) 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 The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) П (m) (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy). Class "B" Documents

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

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

(o) Original of duly signed and accomplished Financial Bid Form; and

Other documentary requirements under RA No. 9184

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

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date : _ Project Identification No. : _	

To: [name and address of Procuring Entity]

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: [insert information];
- d. The discounts offered and the methodology for their application are: [insert information];
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

-

¹ currently based on GPPB Resolution No. 09-20^^

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- I. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name:	
Legal Capacity:	
Signature:	
Duly authorized to sign the Bid for and behalf of:	
Date:	

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - 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, 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;
- 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, Procurement Agent if engaged, 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 partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, Procurement Agent if engaged, 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, Procurement Agent if engaged, 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.

	Revised Pe	enal Code.									
		that the project lans and prog		completed	l in accor	dance	and con	gruency	with the	е	
IN —		WHEREOF , _, Philippines.	I have	hereunto	set my	hand	this	day of	,	20	at
				[Inse	ert NAME [Insert]	REPI	RESENT			RIZED)

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

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

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

- 3. In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.
- 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]

<u>Acknowledgment</u>

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

**********	2002-01-01-0			CONTRACTOR'S ROLE (NOLI CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	CONTRACT	PERCENTAGE		
PROJECT TITLE (Name of the Control) & EXACT PROJECT LOCATION	DATE OF CONTRACT PROJECT OWNER & NATURE OF WORK CONTRACT DURATION POSTAL ADDRESS		MATHRENINA IN CONTRACT CO and PERCENTAGE OF VALUE AT	COMPLETION or ESTEMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHWENT	PLANNED ACCOMPUSIONENT	VALUE OF OUTSTANDIF WORKS (IN PRP)		
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PHOTOCOPY	ADDITIONAL	FORMS,	IF NECESSARY

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LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER NAME OF CONTRACTOR: PROJECT TITLE: _____ ROLE OF BIDDER IN THE CONTRACT SOLE CONTRACT PRICE DATE OF SCHEDULED MAJOR SCOPE OF WORKS & DATE NAME AND ADDRESS PROJECT TITLE & EXACT LOCATION CONTRACTOR / SUB-COMPLETION STARTED (PHP) AS AWARDED OF PROJECT OWNER CONTRACTOR/PARTNER IN A TOTAL AMOUNT OF CONTRACT (Php)

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page___of___

PROJECT TITLE (Name of the Contract) EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SUSCOMMENCEOR, PURITHER IN A /A! and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION OF ESTIMATED COMPLETIONTIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE
					THINGS			

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT NAME OF CONTRACTOR: PROJECT TITLE: STATUS OF PRESENT LOCATION YEAR AVAILABILITY TYPE DESCRIPTION / CAPACITY SERIAL NO. (SPECIFIC ADDRESS) ACQUIRED (OWNED/LEASED)

Pame	of	

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

NAME OF CONTRACTOR:			
PROJECT TITLE:			

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

PHOTOCOPY	ADDITIONAL.	FORMS.	IF NECESSARY

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COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:						
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	(LESS) CU	RRENT LIABILITIES*	(LESS)	PHP -		
	NETWORT	TH.		PHP		
	NETWORT	'H x 15	x 15	PHP		
	(LESS) VAL	UE OF ALL OUTSTANDING ON-GOING	(LESS)	PHP -		
		UE OF ALL AWARDED BUT NOT YET CONTRACTS AS OF DATE**	(LESS)	PHP		
	NET FINA	ANCIAL CONTRACTING CAPACITY		PHP		
	NOTES:	 CURRENT ASSETS AND LIABILITIES PRECEDING CALENDAR YEAR SUB 			D FINANCIAL STA	ATEMENT FOR THE
		 BASED ON LIST OF ON-GOING AN SUBMITTED 	D AWRDE	D BUT NO	T YEY STARTED C	CONTRACTS

REPUBLIC OF THE PHILIPPINES)	
1	S. S.

AFFIDAVIT OF UNDERTAKING

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3	That _	[Name	of Bidder	1_bide	ling for the (?	Name of Pro	oject)		
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