

**PHILIPPINE BIDDING DOCUMENTS**

**Procurement of  
INFRASTRUCTURE  
PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF HANDWASHING  
FACILITY AND REHABILITATION OF DAY CARE CENTER  
AT DISTRICT 3 AREA XVI AND XVIII**

**Project number:  
21-00168**

**Sixth Edition  
July 2020**

# Preface

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

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

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

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

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

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

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

# TABLE OF CONTENTS

<b>Glossary of Terms, Abbreviations, and Acronyms.....</b>	<b>5</b>
<b>Section I. Invitation to Bid .....</b>	<b>8</b>
<b>Section II. Instructions to Bidders.....</b>	<b>9</b>
1. Scope of Bid.....	10
2. Funding Information .....	10
3. Bidding Requirements.....	10
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices .....	10
5. Eligible Bidders.....	11
6. Origin of Associated Goods .....	11
7. Subcontracts .....	11
8. Pre-Bid Conference.....	12
9. Clarification and Amendment of Bidding Documents.....	12
10. Documents Comprising the Bid: Eligibility and Technical Components.....	12
11. Documents Comprising the Bid: Financial Component .....	13
12. Alternative Bids .....	13
13. Bid Prices .....	13
14. Bid and Payment Currencies.....	13
15. Bid Security.....	14
16. Sealing and Marking of Bids.....	14
17. Deadline for Submission of Bids .....	14
18. Opening and Preliminary Examination of Bids .....	14
19. Detailed Evaluation and Comparison of Bids.....	14
20. Post Qualification.....	15
21. Signing of the Contract .....	15
<b>Section III. Bid Data Sheet.....</b>	<b>16</b>
<b>Section IV. General Conditions of Contract .....</b>	<b>22</b>
1. Scope of Contract.....	23
2. Sectional Completion of Works .....	23
3. Possession of Site.....	23
4. The Contractor’s Obligations.....	23
5. Performance Security .....	23
6. Site Investigation Reports .....	24

7.	Warranty.....	24
8.	Liability of the Contractor.....	24
9.	Termination for Other Causes.....	24
10.	Dayworks .....	24
11.	Program of Work.....	25
12.	Instructions, Inspections and Audits .....	25
13.	Advance Payment.....	25
14.	Progress Payments .....	25
15.	Operating and Maintenance Manuals.....	25
	<b>Section V. Special Conditions of Contract.....</b>	<b>27</b>
	<b>Section VI. Specifications .....</b>	<b>29</b>
	<b>Section VII. Drawings.....</b>	<b>31</b>
	<b>Section VIII. Bill of Quantities .....</b>	<b>32</b>
	<b>Section IX. Checklist of Technical and Financial Documents.....</b>	<b>34</b>

# *Glossary of Terms, Abbreviations, and Acronyms*

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

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

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

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

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

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

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**UN** – United Nations.



## ***Section I. Invitation to Bid***

### **Notes on the Invitation to Bid**

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

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

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

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



**REPUBLIC OF THE PHILIPPINES**  
**QUEZON CITY GOVERNMENT**  
**BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE &**  
**CONSULTANCY**



2<sup>nd</sup> floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

November 15, 2021

## Invitation to Bid

No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
<b><i>Buildings – Small B</i></b>							
1	21-00156	Proposed Construction of Hand Washing Facility and Rehabilitation of Waterline System at Krus Na Ligas Elementary School (Simon Building)	Krus Na Ligas	1,136,052.36	60	Engineering Department	Special Education Fund
2	21-00157	Proposed Construction of Hand Washing Facility at Payatas C Elementary School	Payatas	1,278,401.32	60	Engineering Department	Special Education Fund
3	21-00158	Proposed Construction of Hand Washing Facility at Main Building of Balara High School	Pansol	1,282,912.05	60	Engineering Department	Special Education Fund
4	21-00159	Proposed Rehabilitation of Day Care Center at District 3 / Area XIII and XIV	Claro, Silangan & East Kamias	1,458,079.64	45	Engineering Department	Engineering - SB No. 1
5	21-00160	Proposed Construction of Hand Washing Facility and Rehabilitation of Waterline System at Ramon Magsaysay High School Belmonte Building)	Pinagkaisahan	1,731,551.85	90	Engineering Department	Special Education Fund
6	21-00161	Proposed Construction of Hand Washing Facility and Rehabilitation of Waterline at Bagong Pag-Asa Elementary School (SB Building)	Bagong Pag-Asa	1,801,334.79	60	Engineering Department	Special Education Fund
7	21-00162	Proposed Rehabilitation of Milagrosa Daycare Center and Livelihood Center	Milagrosa	2,198,687.07	75	Engineering Department	Engineering - SB No. 1
8	21-00163	Proposed Construction of Hand Washing Facility and Rehabilitation of Comfort Rooms and Waterline System at Aguinaldo Elementary School (Estrada Building)	San Roque	2,296,791.86	120	Engineering Department	Special Education Fund
9	21-00164	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 5)	Payatas	2,871,590.18	60	Engineering Department	Engineering - SB No. 1
10	21-00165	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 3 / Area XV	Matandang Balara & Pansol	3,027,863.77	60	Engineering Department	Engineering - SB No. 1

11	21-00166	Proposed Construction of Hand Washing Facility and Rehabilitation of Comfort Rooms and Waterline System at Maligaya Elementary School (Vargas Building)	Pasong Putik	3,565,679.65	90	Engineering Department	Special Education Fund
12	21-00167	Proposed Construction of Hand Washing Facility and Rehabilitation of Comfort Rooms and Waterline System at San Francisco High School (SB Building)	Ramon Magsaysay	4,900,074.64	60	Engineering Department	Special Education Fund
13	21-00168	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 3 / Area XVI and XVIII	Villa Maria Clara, Bagumbuhay, Bayanihan, Escopa 3, Marilag	5,527,209.52	90	Engineering Department	Engineering - SB No. 1
14	21-00169	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XIX	Kamuning, Obrero, Paligsahan, Roxas & South Triangle	7,108,186.57	60	Engineering Department	Engineering - SB No. 1
15	21-00170	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XXIII	Old Capitol Site, San Vicente & U.P. Campus	8,767,692.58	90	Engineering Department	Engineering - SB No. 1
16	21-00171	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XXIV	Central, Krus Na Ligas & Pinyahan	8,801,647.54	60	Engineering Department	Engineering - SB No. 1
17	21-00172	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 1)	Bagong Silangan	8,899,769.12	90	Engineering Department	Engineering - SB No. 1
18	21-00173	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XX	Horseshoe, Immaculate Concepcion, Kaunlaran, Pinagkaisahan & San Martin De Porres	9,342,308.35	60	Engineering Department	Engineering - SB No. 1
19	21-00174	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 4)	Holy Spirit	9,513,555.66	90	Engineering Department	Engineering - SB No. 1
20	21-00175	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XXII	Tatalon, Don Manuel, Doña Aurora, Doña Imelda, Doña Josefa, San Isidro Galas, Santol & Sto. Niño	11,988,174.41	90	Engineering Department	Engineering - SB No. 1
21	21-00176	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 3)	Balonbato & Sangandaan	14,755,919.20	90	Engineering Department	Engineering - SB No. 1

22	21-00177	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 2)	Batasan Hills	17,576,527.83	90	Engineering Department	Engineering - SB No. 1
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1. The **QUEZON CITY LOCAL GOVERNMENT**, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from **QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat** and inspect the Bidding Documents at the address given below *weekdays from 8:00 am. – 5:00 p.m.*
5. A complete set of Bidding Documents may be acquired by interested bidders on **16 November 2021 (Tuesday)** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

**STANDARD RATES:**

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

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before **November 23, 2021 - 5:00PM**.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference<sup>1</sup> on **November 24, 2021 at 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 854 9489 0133**

**Password: 273320**

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **December 6, 2021 – 9:00AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on **December 6, 2021 - 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 810 3646 5257**

**Password: 201522**

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

**ATTY. DOMINIC B. GARCIA**

OIC, Procurement Department

2<sup>nd</sup> Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

Tel. No. (02)8988-4242 loc. 8506/8710


Email Add: [baconfra.procurement@quezoncity.gov.ph](mailto:baconfra.procurement@quezoncity.gov.ph)

Website: [www.quezoncity.gov.ph](http://www.quezoncity.gov.ph)

12. You may visit the following websites:

For downloading of Bidding Documents: <https://quezoncity.gov.ph/public-notices/procurement/>

By:

  
**ATTY. MARK DALE DIAMOND P. PERRAL**  
Chairman, BAC-Infra and Consultancy

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

## ***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 CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 3 AREA XVI AND XVIII**, with Project Identification Number **21-00168**.

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

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

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2021** in the amount of **Five Million Five Hundred Twenty-Seven Thousand Two Hundred Nine Pesos & 52/100 Cts. (P 5,527,209.52)**.

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 **November 24, 2021, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320**

## **9. Clarification and Amendment of Bidding Documents**

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

## **10. Documents Comprising the Bid: Eligibility and Technical Components**

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

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

## **11. Documents Comprising the Bid: Financial Component**

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

## **12. Alternative Bids**

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

## **13. Bid Prices**

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

## **14. Bid and Payment Currencies**

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

## 15. Bid Security

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

## 16. Sealing and Marking of Bids

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

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

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

## 17. Deadline for Submission of Bids

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

## 18. Opening and Preliminary Examination of Bids

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

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

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

## 19. Detailed Evaluation and Comparison of Bids

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

## **20. Post Qualification**

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

## **21. Signing of the Contract**

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

## ***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	<b>Subcontracting is not allowed.</b>																																												
10.3	<p><i>No additional contractor license or permit is required</i></p> <p><b><i>In addition, eligible bidders shall qualify or comply with the following:</i></b></p> <p>1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)</p> <p style="padding-left: 40px;">Type</p> <p style="text-align: center;"><b>Building - Small B</b></p>																																												
10.4	<p>The minimum work experience requirements for key personnel are the following:</p> <p style="text-align: center;"><b>PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAY CARE CENTER</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Qty.</th> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">General Experience</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Project Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>DPWH duly accredited Materials Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Safety Officer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Foreman</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Skilled Worker</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Driver</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Laborer</td> <td style="text-align: center;">1 year</td> <td style="text-align: center;">3 months</td> </tr> </tbody> </table> <p style="text-align: center;"><b>PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Qty.</th> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">General Experience</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Project Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>DPWH duly accredited Materials Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> </tbody> </table>	Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	DPWH duly accredited Materials Engineer	3 years	3 years	1	Safety Officer	3 years	3 years	1	Foreman	3 years	3 years	7	Skilled Worker	3 years	3 years	1	Driver	3 years	3 years	5	Laborer	1 year	3 months	Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	DPWH duly accredited Materials Engineer	3 years	3 years
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1	Foreman	3 years	3 years
7	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
7	Laborer	1 year	3 months

**PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER**

Qty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
4	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
2	Laborer	1 year	3 months

**PROPOSED REHABILITATION OF MARILAG 1 AND 2 DAY CARE CENTER**

Qty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
6	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
9	Laborer	1 year	3 months

**PROPOSED REHABILITATION OF VILLA MARIA CLARA DAY CARE CENTER**

Qty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
5	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
3	Laborer	1 year	3 months

*In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.*

10.5

The minimum major equipment requirements are the following:

**PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAY CARE CENTER**

Equipment	Capacity	Number of Units
Bar Cutter		1
Welding Machine		1
Elf Truck		1
Cut-Off Machine		as needed
Power Tools		as needed
Minor Tools		as needed

**PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER**

Equipment	Capacity	Number of Units
Elf Truck		1
Scaffolding		as needed
Power Tools		as needed
Minor Tools		as needed

**PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER**



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12	<i>[Insert Value Engineering clause if allowed.]</i>																																																						
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:</p> <p>a) The amount of not less than Php 110,544.19 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</p> <p>b) The amount of not less than Php 276,360.48 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</p>																																																						
19.2	<b>Partial bid is not allowed.</b> 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	<b>Additional Contract Documents relevant to the Project as required:</b> <b>1. Construction Schedule and S-curve,</b> <b>2. Manpower Schedule,</b> <b>3. Construction Methods,</b> <b>4. Equipment Utilization Schedule,</b> <b>5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.</b>
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## ***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 90 calendar days
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[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:]</i> Fifteen (15) years.</p> <p><i>[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:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
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	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
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*  
*Quezon City*

## **CITY ENGINEERING DEPARTMENT**

Civic Center Building B, Quezon City Hall Compound, Elliptical Road  
Diliman, Central 1100 Quezon City  
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### **TECHNICAL SPECIFICATIONS** **QUEZON CITY INFRASTRUCTURE PROJECT**

**PROJECT TITLE : PROPOSED CONSTRUCTION OF HANDWASHING FACILITY  
AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER /**  
**LOCATION : BARANGAY ESCOPA 3, DISTRICT 3, QUEZON CITY /**

#### **I. GENERAL REQUIREMENTS**

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

- ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
- i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; 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.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- 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 certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / 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.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.
- E. Excavation shall be shored and braced by members of suitable sizes where necessary to prevent danger to persons, injurious caving or erosions. Shoring bracing and sheathing shall be removed, as the excavations are backfilled, in a manner such as to prevent injurious caving. The contractor shall keep all excavations free from water while construction is in progress.

### III. CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORK

- a. **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.
- b. 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.
- c. **Materials**
  - i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).
  - ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
  - iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be coarse, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
  - iv. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.
- d. **Proportioning and Mixing**
  - i. Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:  
 Cement : Sand : Gravel
    - Class "A" - 1 : 2 : 3
    - Class "B" - 1 : 2 : 4
    - Class "C" - 1 : 2 ½
  - ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
  - iii. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.
- e. **Forms**
  - i. General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be ¼" waterproof plywood and form lumber.
  - ii. Cleaning of Forms – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.

- iii. Removal of Forms – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.
- f. Placing Reinforcement:
- Steel reinforcement shall be provided as indicated, together with all necessary wire ties, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.
- g. Conveying and Placing Concrete:
- i. Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
  - ii. Placing – concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
  - iii. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
  - iv. 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 cured that have commenced initial set; and reinforcement embedded in concrete 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.
  - v. 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.
- h. Curing
- i. 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.
  - ii. 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.
- i. Finishing
- i. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance

except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.

- ii. 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

### a. Masonry Units (CHB):

- i. 100mm thick for all interior walls and exterior walls unless otherwise indicated.
- ii. Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
- iii. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

### b. Sand:

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

### c. Mortar:

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

### d. Plaster bond:

Apply plaster bond to all wall area.

## C. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

## D. WATERPROOFING

### a. Waterproofing:

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.



## b. Testing:

Test waterproofed area by seventy-two (72) hours and check for any seepages.

Note: Thickness should be as per Manufacturers Specifications and Installation depending on the Areas to be applied with.

**IV. ARCHITECTURAL WORKS****A. TILE WORKS**

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen & clean.
- c. Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

**B. FABRICATED DOORS & WINDOWS**

All doors and windows must be in approved quality as specified in the plan and program of works.

**C. PAINTING WORKS**

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. 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.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft 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:
  - B.1 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.
  - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

- B.4 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.
- E. 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.
- I. 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 catalogue 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 practicable, 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 site 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.
- O. 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 testing 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 carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- 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.

- T. The Sanitary Contractor must carry out any additional tests 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 leakage 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 limits and under conditions indicated according to ASCE/SEI 7.
- 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.

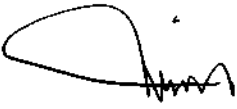
## VI. ELECTRICAL WORKS

- A. 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. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.
- E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

### F. PANELBOARDS

- F.1 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.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - F.2.1 Rated for environmental conditions at installed location.
    - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.

- ii. Outdoor Locations: NEMA 250, Type 3R.
  - iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
  - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
  - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
- F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
- F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
- F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
- F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
- F.2.6 Finishes:
- i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
  - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
  - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
- F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
  - F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
  - F.4.3 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.

  
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## **CITY ENGINEERING DEPARTMENT**

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# **TECHNICAL SPECIFICATIONS**

## **QUEZON CITY INFRASTRUCTURE PROJECT**

**PROJECT TITLE: PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER,**

**LOCATION: BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY,**

### **I. GENERAL REQUIREMENTS**

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- c. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- e. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
  - i. 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.
  - ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.

- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; 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.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- k. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- l. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / 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.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

## III. CIVIL / STRUCTURAL WORKS

### A. MASONRY

- a. Masonry Units (CHB):
  - i. 100mm thick for all interior walls and exterior walls unless otherwise indicated.
  - ii. Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
  - iii. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.
- b. Sand:
  - S-1, washed, clean and greenish in color.

## c. Mortar:

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

## d. Plaster bond:

Apply plaster bond to all wall area.

**B. ROOFING WORKS**

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

**C. WATERPROOFING**

## a. Waterproofing:

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.

## b. Testing:

Test waterproofed area by seventy-two (72) hours and check for any seepages.

Note: Thickness should be as per Manufacturers Specifications and Installation depending on the Areas to be applied with.

**IV. ARCHITECTURAL WORKS****A. TILE WORKS**

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen & clean.
- c. Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

**B. PROVISION OF CABINET**

- a. Good Lumber must be 2" x 2" x 10' for support frames and main frames.
- b. 1/2" thick Plywood must be used.
- c. Countertop must be finished with 300mm x 300mm Tiles.

**C. FABRICATED DOORS & WINDOWS**

All doors and windows must be in approved quality as specified in the plan and program of works.

**D. PAINTING WORKS**

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. 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.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft 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:
  - B.1 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.
  - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
  - B.4 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.
- E. 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.

- I. 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 catalogue 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 practicable, 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 site 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.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.

#### VI. ELECTRICAL 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. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.
- E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

  
PETE ANDRE S. IMATONG

Planning and Programming Division.

  
JOCELYN A. NAONG

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**TECHNICAL SPECIFICATIONS**  
**QUEZON CITY INFRASTRUCTURE PROJECT**

**PROJECT TITLE: PROPOSED REHABILITATION OF BAYANIHAN DAYCARE CENTER** ✓

**LOCATION: BARANGAY BAYANIHAN, DISTRICT 3, QUEZON CITY** ✓

**I. GENERAL REQUIREMENTS**

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- c. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- e. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
  - i. 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.
  - ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.

- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j. Temporary Facilities and Utilities
  - i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
  - ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; 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.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- 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 certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## **II. SITE WORKS**

- A. Removal / demolition of existing structures shall be done in accordance to safety procedures.

## **III. CIVIL / STRUCTURAL WORKS**

### **A. MASONRY**

- a. Masonry Units (CHB):
  - i. 100mm thick for all interior walls and exterior walls unless otherwise indicated.
  - ii. Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.

- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j. **Temporary Facilities and Utilities**
  - i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
  - ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; 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.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- 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 certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## **II. SITE WORKS**

- A. Removal / demolition of existing structures shall be done in accordance to safety procedures.

## **III. CIVIL / STRUCTURAL WORKS**

### **A. MASONRY**

- a. **Masonry Units (CHB):**
  - i. 100mm thick for all interior walls and exterior walls unless otherwise indicated.
  - ii. Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.

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

b. Sand:

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

c. Mortar:

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

d. Plaster bond:

Apply plaster bond to all wall area.

#### **IV. ARCHITECTURAL WORKS**

##### **A. TILE WORKS**

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen & clean.
- c. Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

##### **B. PROVISION OF CABINET**

- a. Good Lumber must be 2" x 2" x 10' for support frames and main frames.
- b. 1/2" thick Plywood must be used

##### **C. FABRICATED DOORS & WINDOWS**

All doors and windows must be in approved quality as specified in the plan and program of works.

##### **D. PAINTING WORKS**

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. 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.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft 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:
- B.1 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.
  - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
  - B.4 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.
- E. 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.
- I. 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 catalogue 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 practicable, 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 site 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.
- O. 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 testing 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 carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- 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.
- T. The Sanitary Contractor must carry out any additional tests 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 leakage 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 limits and under conditions indicated according to ASCE/SEI 7.
- 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.



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### **TECHNICAL SPECIFICATIONS** **QUEZON CITY INFRASTRUCTURE PROJECT**

**PROJECT TITLE : PROPOSED REHABILITATION OF MARILAG 1 AND 2 DAY CARE CENTER**

**LOCATION : BARANGAY MARILAG, DISTRICT 3, QUEZON CITY**

#### **I. GENERAL REQUIREMENTS**

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



- i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
  - ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
- i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; 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.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- 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 certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / 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.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.
- E. Excavation shall be shored and braced by members of suitable sizes where necessary to prevent danger to persons, injurious caving or erosions. Shoring bracing and sheathing shall be removed, as the excavations are backfilled, in a manner such as to prevent injurious caving. The contractor shall keep all excavations free from water while construction is in progress.

### III. CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORK

- a. 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.
- b. 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.
- c. Materials
  - i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).
  - ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
  - iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be coarse, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
  - iv. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.
- d. Proportioning and Mixing
  - i. Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:  
  
Cement : Sand : Gravel
    - Class "A" - 1 : 2 : 3
    - Class "B" - 1 : 2 : 4
    - Class "C" - 1 : 2 ½
  - ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
  - iii. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.
- e. Forms
  - i. General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be ¼" waterproof plywood and form lumber.

- ii. **Cleaning of Forms** – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.
- iii. **Removal of Forms** – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f. **Placing Reinforcement:**

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

g. **Conveying and Placing Concrete:**

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

h. **Curing**

- i. **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.
- ii. **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.

i. **Finishing**

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

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

## **C. WATERPROOFING**

- a. Waterproofing:

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.

- b. Testing:

Test waterproofed area by seventy-two (72) hours and check for any seepages.

Note: Thickness should be as per Manufacturers Specifications and Installation depending on the Areas to be applied with.

## **IV. ARCHITECTURAL WORKS**

### **A. TILE WORKS**

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen & clean.
- c. Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

### **B. FABRICATED DOORS & WINDOWS**

All doors and windows must be in approved quality as specified in the plan and program of works.

### **C. PAINTING WORKS**

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. 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.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft 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:
  - B.1 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.
  - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
  - B.4 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.
- E. 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.

- I. 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 catalogue 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 practicable, 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 site 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.
- O. 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 testing 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 carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- 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.
- T. The Sanitary Contractor must carry out any additional tests 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 leakage 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 limits and under conditions indicated according to ASCE/SEI 7.
- 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. 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. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.
- E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.



**LEE/EFRAAMP. OCO**  
Planning and Programming Division



**JOCELYN A. NAONG**  
Planning and Programming Division



*Republic of the Philippines*  
*Quezon City*

## **CITY ENGINEERING DEPARTMENT**

Civic Center Building 8, Quezon City Hall Compound, Elliptical Road  
Diliman, Central 1100 Quezon City  
Trunk line: +63 2 8988 4242



# **TECHNICAL SPECIFICATIONS**

## **QUEZON CITY INFRASTRUCTURE PROJECT**

**PROJECT TITLE: PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER**

**LOCATION: BARANGAY VILLA MARIA CLARA, DISTRICT 3, QUEZON CITY**

### **I. GENERAL REQUIREMENTS**

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- c. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- e. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
  - i. 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.
  - ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.



- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j. Temporary Facilities and Utilities
  - i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
  - ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; 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.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- 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 certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## II. SITE WORKS

- A. Removal / demolition of existing structures shall be done in accordance to safety procedures.

## III. CIVIL / STRUCTURAL WORKS

### A. MASONRY

- a. Masonry Units (CHB):
  - i. 100mm thick for all interior walls and exterior walls unless otherwise indicated.
  - ii. Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.

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

b. Sand:

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

c. Mortar:

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

d. Plaster bond:

Apply plaster bond to all wall area.

#### **IV. ARCHITECTURAL WORKS**

##### **A. TILE WORKS**

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen & clean.
- c. Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

##### **B. PROVISION OF CABINET**

- a. Good Lumber must be 2" x 2" x 10' for support frames and main frames.
- b. 3/4" thick Plywood must be used.
- c. Countertop must be finished with 300mm x 300mm Tiles.

##### **C. FABRICATED DOORS & WINDOWS**

All doors and windows must be in approved quality as specified in the plan and program of works.

##### **D. PAINTING WORKS**

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
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- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft 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).
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  - B.1 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.
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- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.

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- 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.
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## **VI. ELECTRICAL WORKS**

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#### F. PANELBOARDS

- F.1 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.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - F.2.1 Rated for environmental conditions at installed location.
    - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - ii. Outdoor Locations: NEMA 250, Type 3R.
    - iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
    - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
    - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
  - F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
  - F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
  - F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
  - F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
  - F.2.6 Finishes:
    - i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
    - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
    - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
  - F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
  - F.4.1 Material: Hard-drawn copper, 98 percent conductivity.

- F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
- F.4.3 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.

  
**ARVIN D. ARMANDO**

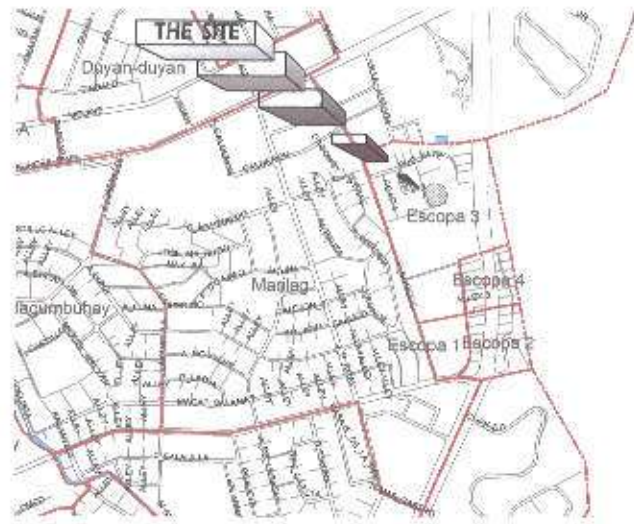
Planning and Programming Division

  
**JOCELYN A. NAONG**

Planning and Programming Division

## ***Section VII. Drawings***

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



**TABLE OF CONTENT**

AR-01	VICINITY MAP LOCATION MAP PERSPECTIVE
AR-02	SITE DEVELOPMENT PLAN
AR-03	FLOOR PLAN
AR-04	REFLECTED CEILING PLAN
AR-05	FRONT ELEVATION SCHEDULE OF DOORS AND WINDOWS
AR-06	SINGLE HAND WASHING DETAILS
AR-07	DOUBLE HAND WASHING DETAILS
ST-01	SINGLE SINK PORTABLE HAND WASHING STALL PLAN ELEVATIONS TYPICAL SECTIONS
ST-02	DOUBLE SINK PORTABLE HAND WASHING STALL PLAN ELEVATIONS TYPICAL SECTIONS
PL-01	GENERAL NOTES LEGENDS AND SYMBOLS SINGLE SINK PORTABLE HAND WASHING SANITARY AND WASTE LINE LAYOUT DOUBLE SINK PORTABLE HAND WASHING SANITARY AND WASTE LINE LAYOUT
PL-02	WATER LINE LAYOUT SEWER LINE LAYOUT
EL-01	GENERAL NOTES SCHEDULE OF LOADS LEGEND AND SYMBOLS SINGLE LINE DIAGRAM
EL-02	PANEL DIAGRAM SCHEDULE OF LOADS
EL-03	GROUND FLOOR LIGHTING AND POWER LAYOUT

**1 VICINITY MAP**

SCALE: NTS

**2 LOCATION MAP**

SCALE: NTS



**3 PERSPECTIVE**

SCALE: NTS



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF  
HANDWASHING FACILITY AND  
REHABILITATION OF ESCOPA 3  
DAYCARE CENTER**

LOCATION:  
BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY

DRAWN BY:  
DATE:  
CHECKED BY: JM  
REVISION NO.:

SUBMITTED BY:  
  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAM DIVISION

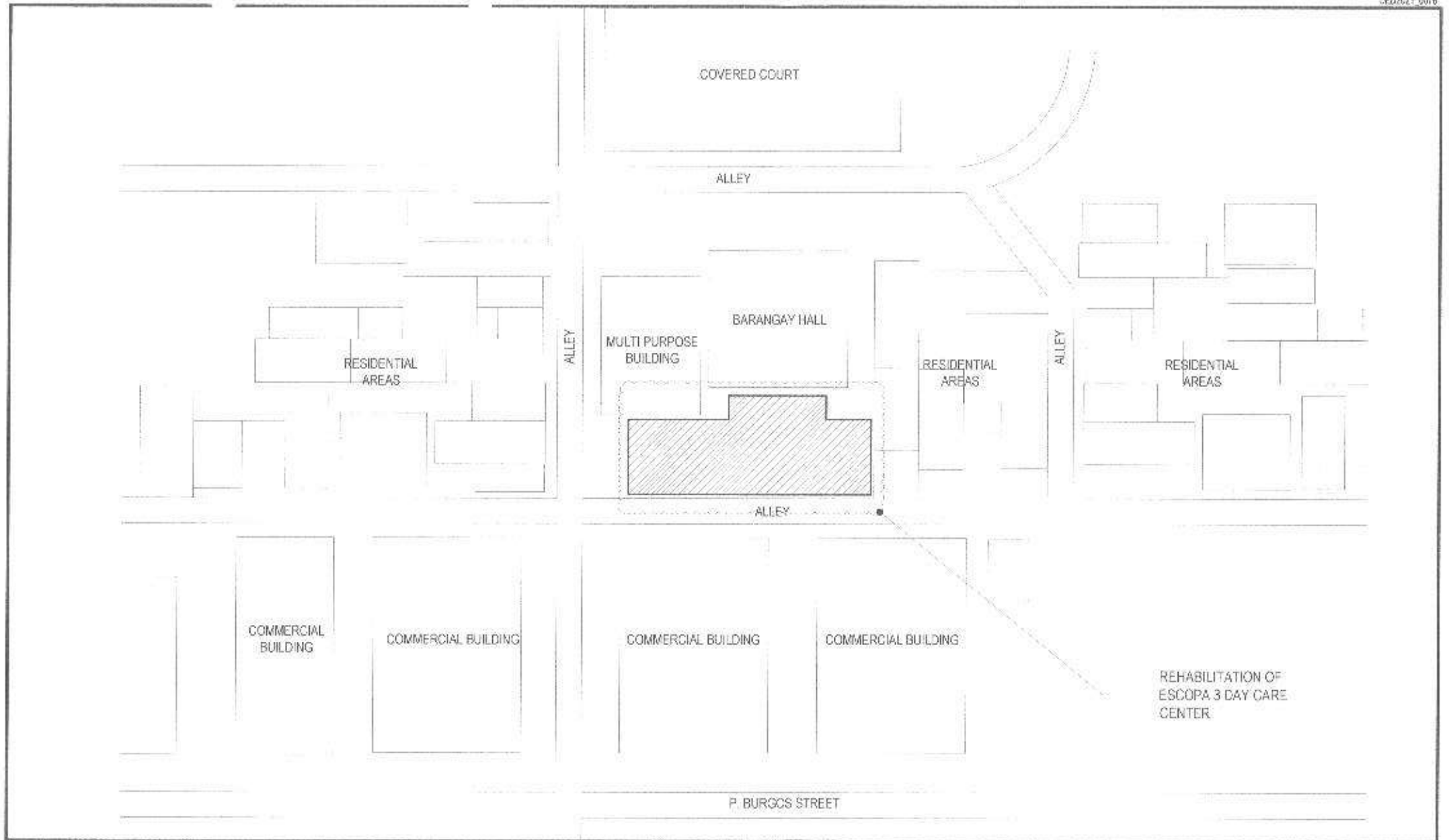
RECOMMENDING APPROVAL:  
  
**ENGR. ISAGANI R. VERZOSA, JR.**  
CITY ENGINEERING DEPARTMENT

APPROVED BY:  
  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

SHEET CONTENT  
VICINITY MAP  
LOCATION MAP  
PERSPECTIVE

SHEET NO.  
**AR-01**  
1/14

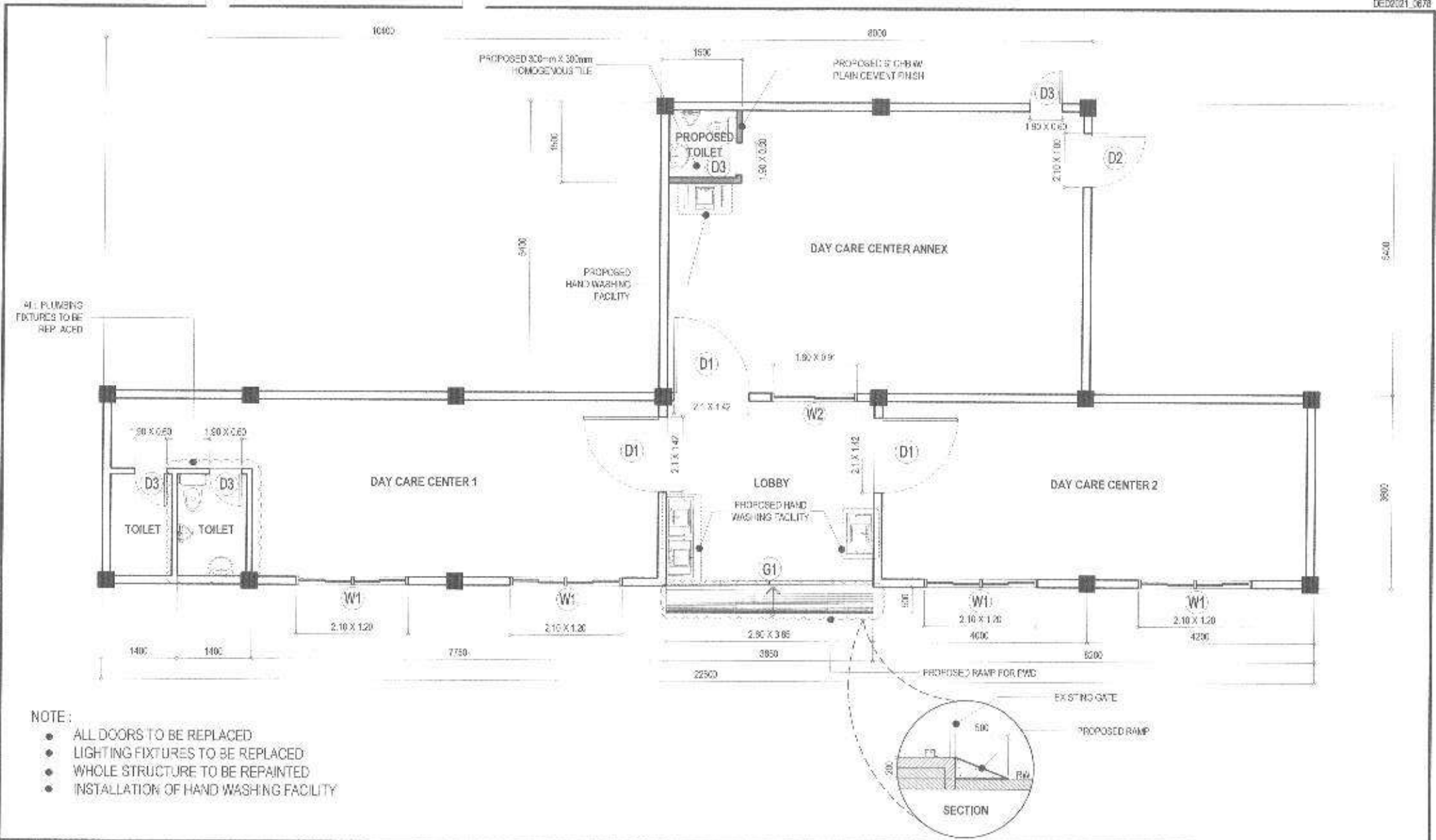




**1 | SITE DEVELOPMENT PLAN**

SCALE: 1:75 M.


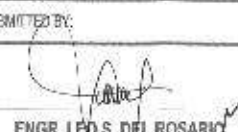
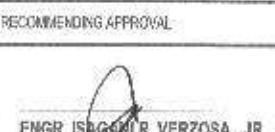
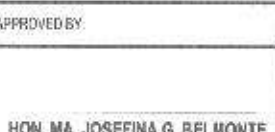
 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	DATE: CHECKED BY: JAR	 ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	 ENGR. ISAGANI R. VERZOSA, JR. CE, CIVIL ENGINEERING DIVISION	HON. MA. JOSEFINA G. BELMONTE CITY ENGINEER	SHEET DEVELOPMENT PLAN	AR-02 2   14
	LOCATION:	REVISIONS:					
	BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY						

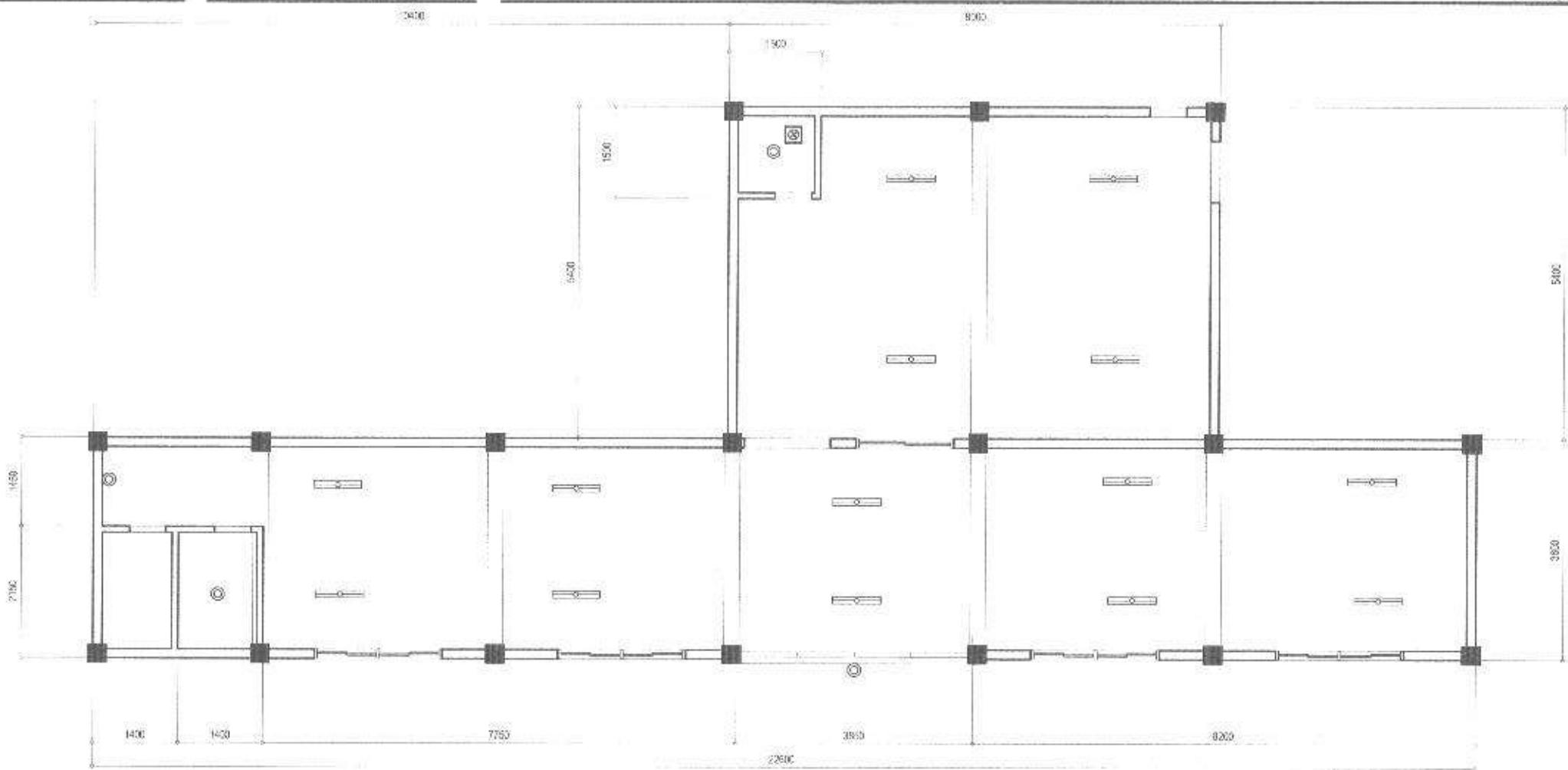


- NOTE:**
- ALL DOORS TO BE REPLACED
  - LIGHTING FIXTURES TO BE REPLACED
  - WHOLE STRUCTURE TO BE REPAINTED
  - INSTALLATION OF HAND WASHING FACILITY

**1 FLOOR PLAN**

SCALE 1:75 M.

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	DATE:				FLOOR PLAN	<b>AR-03</b> 3/14
	LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	CHECKED BY:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING AND PROGRAMS DIVISION	ENGR. ISAGANI R. VERZOSA, JR. DEPT. CITY ENGINEERING DIVISION	HON. MA. JOSEFINA G. BELMONTE CITY MAJOR		




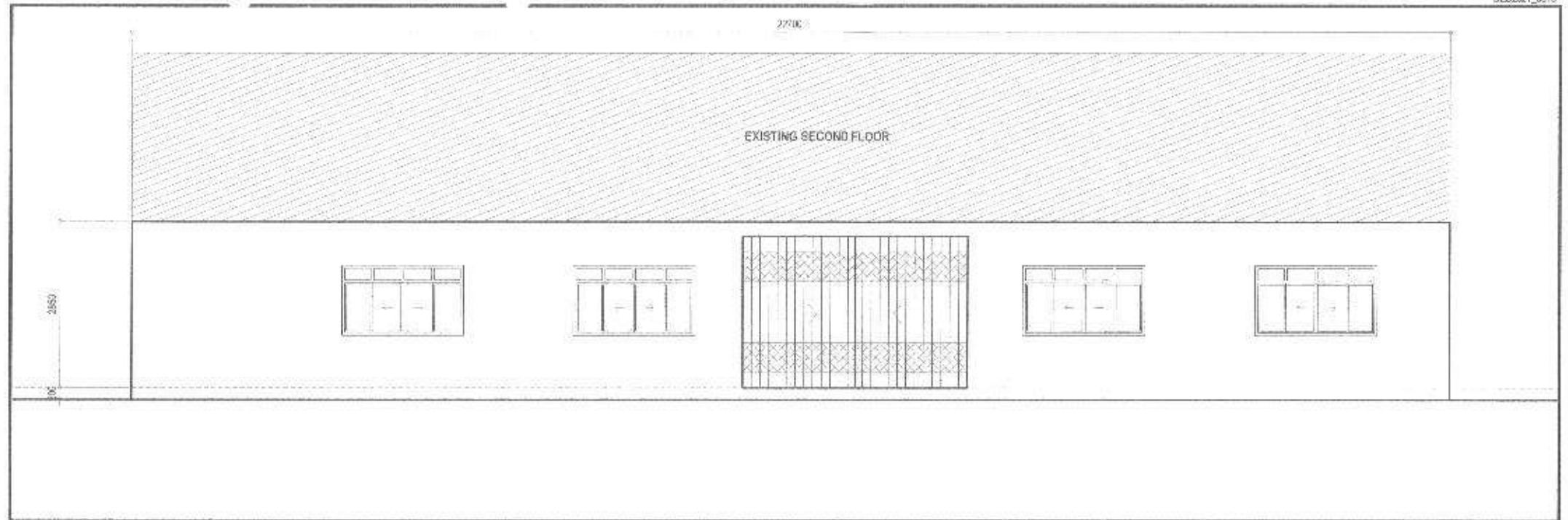
NOTE

- REPLACEMENT OF LIGHTING FIXTURES
- CEILING TO BE REPAINTED

1 REFLECTED CEILING PLAN

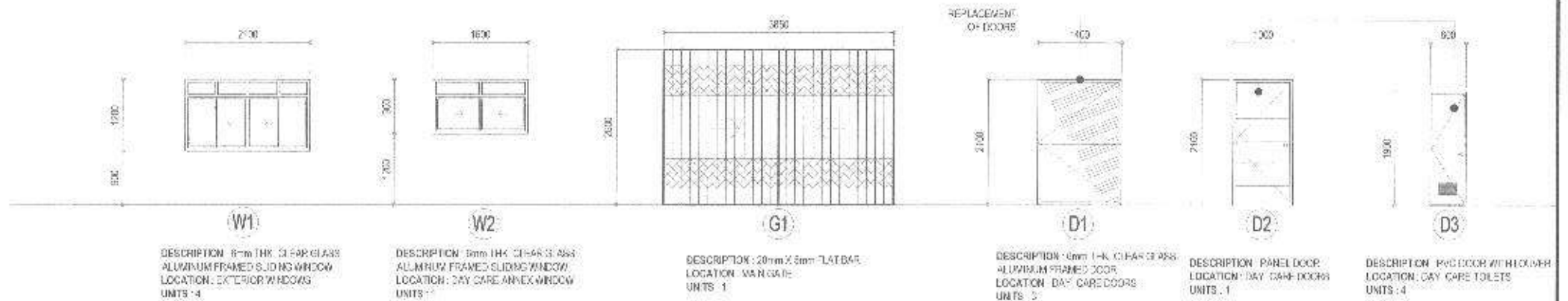
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 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	<p><b>PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER</b></p> <p>LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY</p>	DATE:	CHECKED BY:	<p><b>ENGR. LEG. S. DEL ROSARIO</b> HEAD, PLANNING &amp; PROGRAMMING DIVISION</p>	<p><b>ENGR. ISAGANI R. VERZOSA, JR.</b> CITY ENGINEERING DEPARTMENT</p>	<p><b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	REFLECTED CEILING PLAN



**1 FRONT ELEVATION**

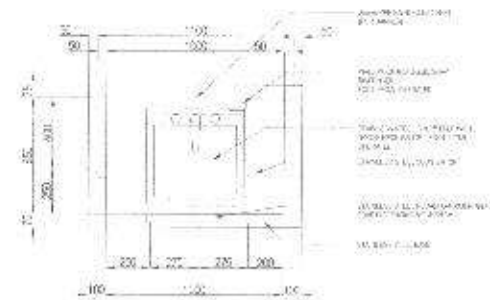
SCALE 1:75 M.



**2 SCHEDULE OF DOORS AND WINDOWS**

SCALE 1:75 M.

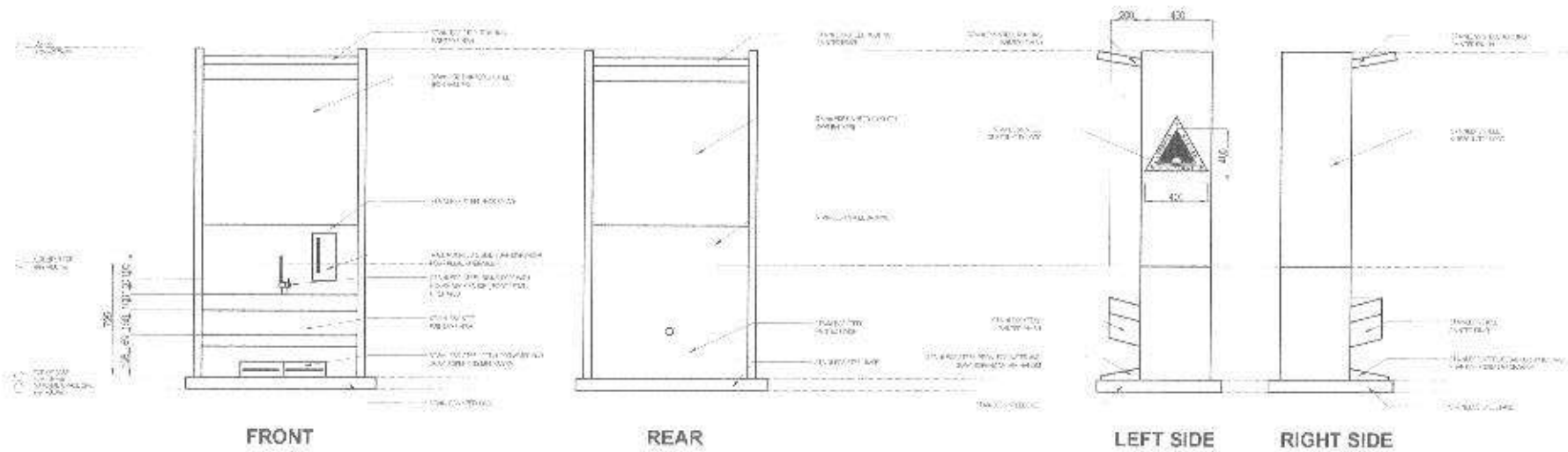
<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>MS</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	DATE:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	FRONT ELEVATION SCHEDULE OF DOORS AND WINDOWS	<b>AR-05</b>
	LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	CHECKED BY: <i>MA</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISACANI R. VERZOSA, JR. CHIEF, TECHNICAL DIVISION	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR		<b>5/14</b>



PLAN

1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE 1:30 M



2 ELEVATIONS

SCALE 1:30 M



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF  
HANDWASHING FACILITY AND  
REHABILITATION OF ESCOPA 3  
DAYCARE CENTER**

LOCATION:  
BARANGAY ESCOPA 3, DISTRICT 3, QUEZON CITY

DRAWN BY: [Signature]  
DATE:  
CHECKED BY: [Signature]  
REVISION NO.:

SUBMITTED BY:  
[Signature]  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLUMBING DIVISION

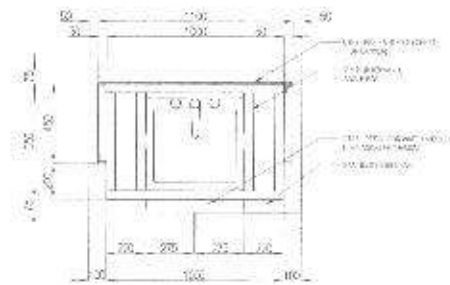
RECOMMENDING APPROVAL:  
[Signature]  
**ENGR. ISAGANI R. VERZOSA, JR.**  
CC, CIVIL ENGINEERING DIVISION

APPROVED BY:  
[Signature]  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

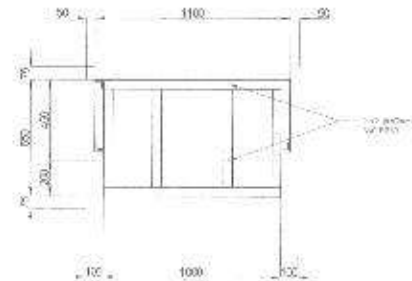
SHEET CONTENT:  
SINGLE SINK PORTABLE  
HAND WASHING  
STALL PLAN,  
ELEVATIONS

SHEET NO.  
**AR-06**  
**6/14**





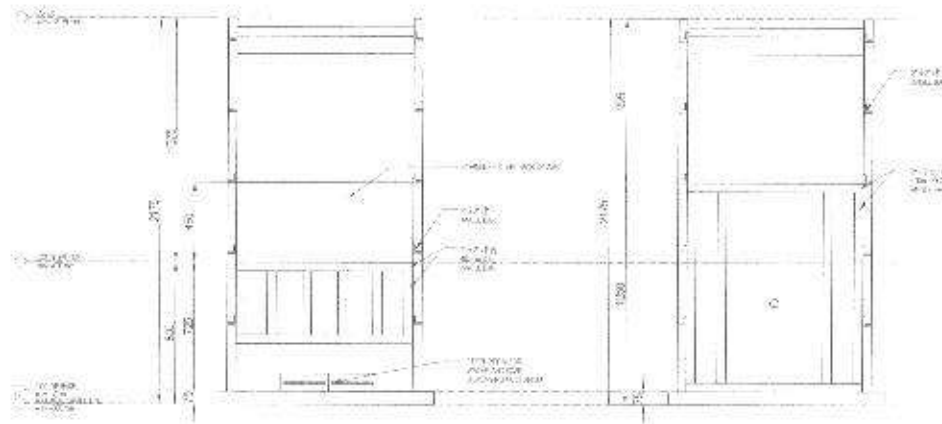
PLAN



ROOF PLAN

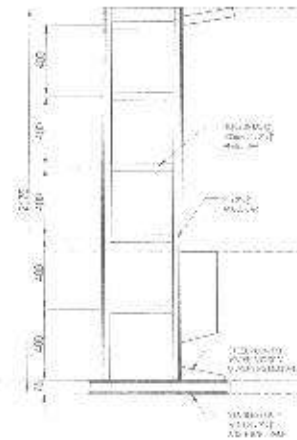
1 DOUBLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE 1:30 M.

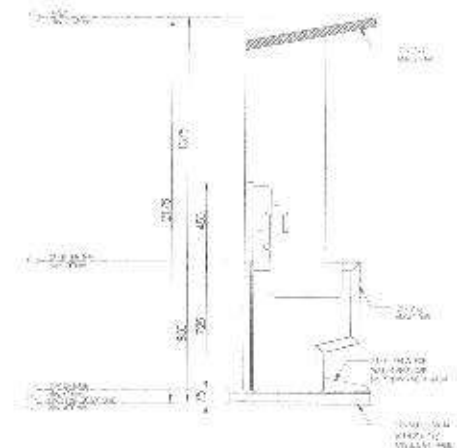


FRONT

REAR



LEFT SIDE



2 ELEVATIONS

SCALE 1:30 M.

3 TYPICAL SECTION

SCALE 1:30 M.



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF  
HANDWASHING FACILITY AND  
REHABILITATION OF ESCOPA 3  
DAYCARE CENTER**

LOCATION:  
BRANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY

DRAWN BY: *SM*  
DATE:  
CHECKED BY: *SM*  
REVISIONS:

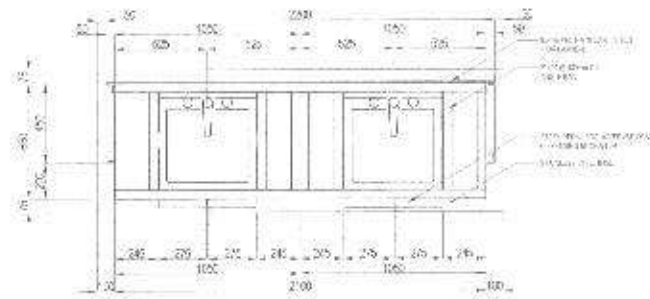
SUBMITTED BY:  
*[Signature]*  
**ENGR. LEO S. DEL ROSARIO**  
REG. PLANNER & PROGRAM MANAGER

RECOMMENDING APPROVAL:  
*[Signature]*  
**ENGR. ISAGAN R. VERZOSA, JR.**  
DIR. CITY ENGINEERING DEPARTMENT

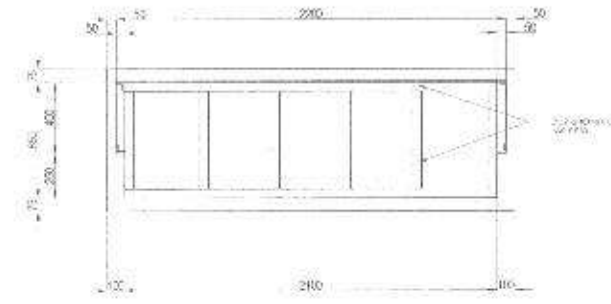
APPROVED BY:  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAJOR

SHEET CONTENT:  
DOUBLE SINK PORTABLE  
HANDWASHING  
STALL PLAN  
ELEVATIONS  
TYPICAL SECTION

SHEET NO.  
**ST-01**  
**8/14**



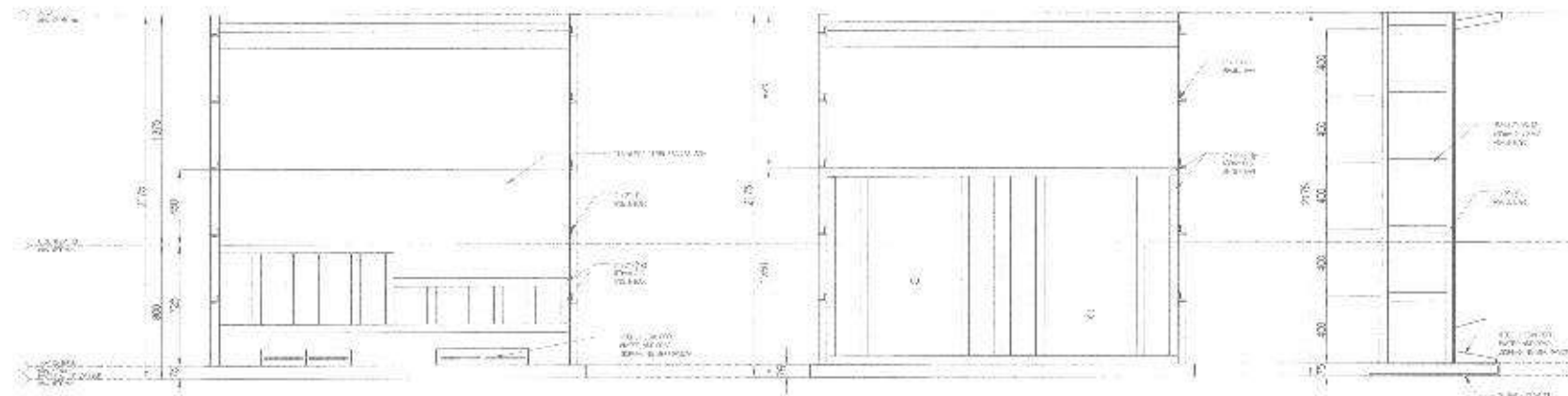
PLAN



ROOF PLAN

1 DOUBLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE 1:30 M.



FRONT

REAR

LEFT SIDE

2 ELEVATIONS

SCALE 1:30 M.



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF  
HANDWASHING FACILITY AND  
REHABILITATION OF ESCOPA 3  
DAYCARE CENTER**

LOCATION:  
BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY

DRAWN BY: [Signature]  
DATE:  
CHECKED BY: [Signature]  
REVISION:

SUBMITTED BY:  
[Signature]  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLUMBING AND HANDWASHING DIVISION

RECOMMENDING APPROVAL:  
[Signature]  
**ENGR. ISAGANI R. VERZOSA, JR.**  
DEPUTY CITY ENGINEER (PLUMBING)

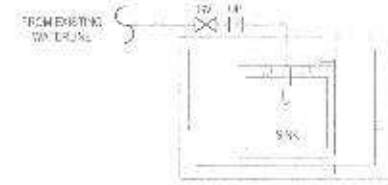
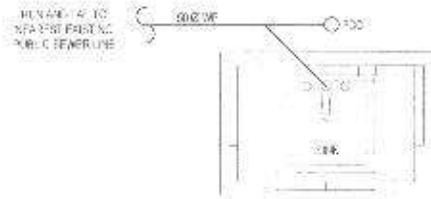
APPROVED BY:  
[Signature]  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

SHEET CONTENT:  
DOUBLE SINK PORTABLE  
HAND WASHING  
STALL PLAN  
ELEVATIONS

SHEET NO.:  
**ST-02**  
**9/14**



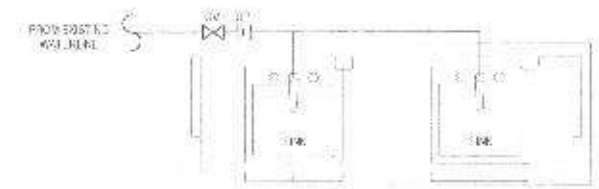
1. ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE RULES AND REGULATION OF QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED. THE ENGR./ARCHT. SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCAT OR REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHLORINE OR HYDROCHLORIDE SOLUTION.
9. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1-1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
10. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 30 MTS. HEAD TO ENSURE THAT THE SYSTEM ARE WATER TIGHT.
11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
12. ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.




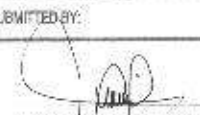

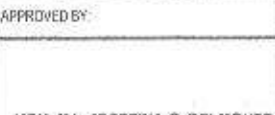

**3** SINGLE SINK PORTABLE HAND WASHING SANITARY LINE SCALE 1:20 M. **5** SINGLE SINK PORTABLE HAND WASHING WATER LINE SCALE 1:30 M.

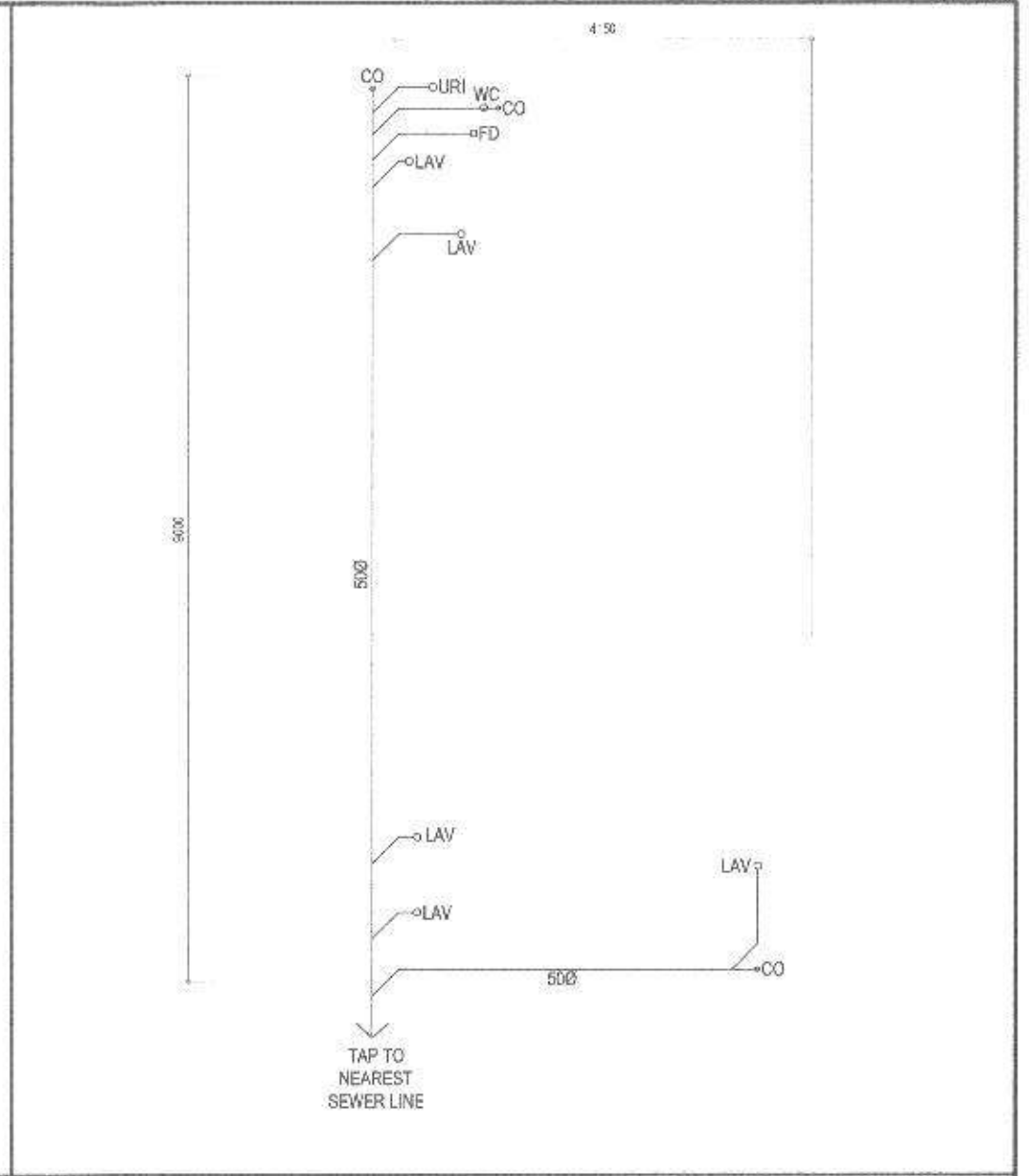
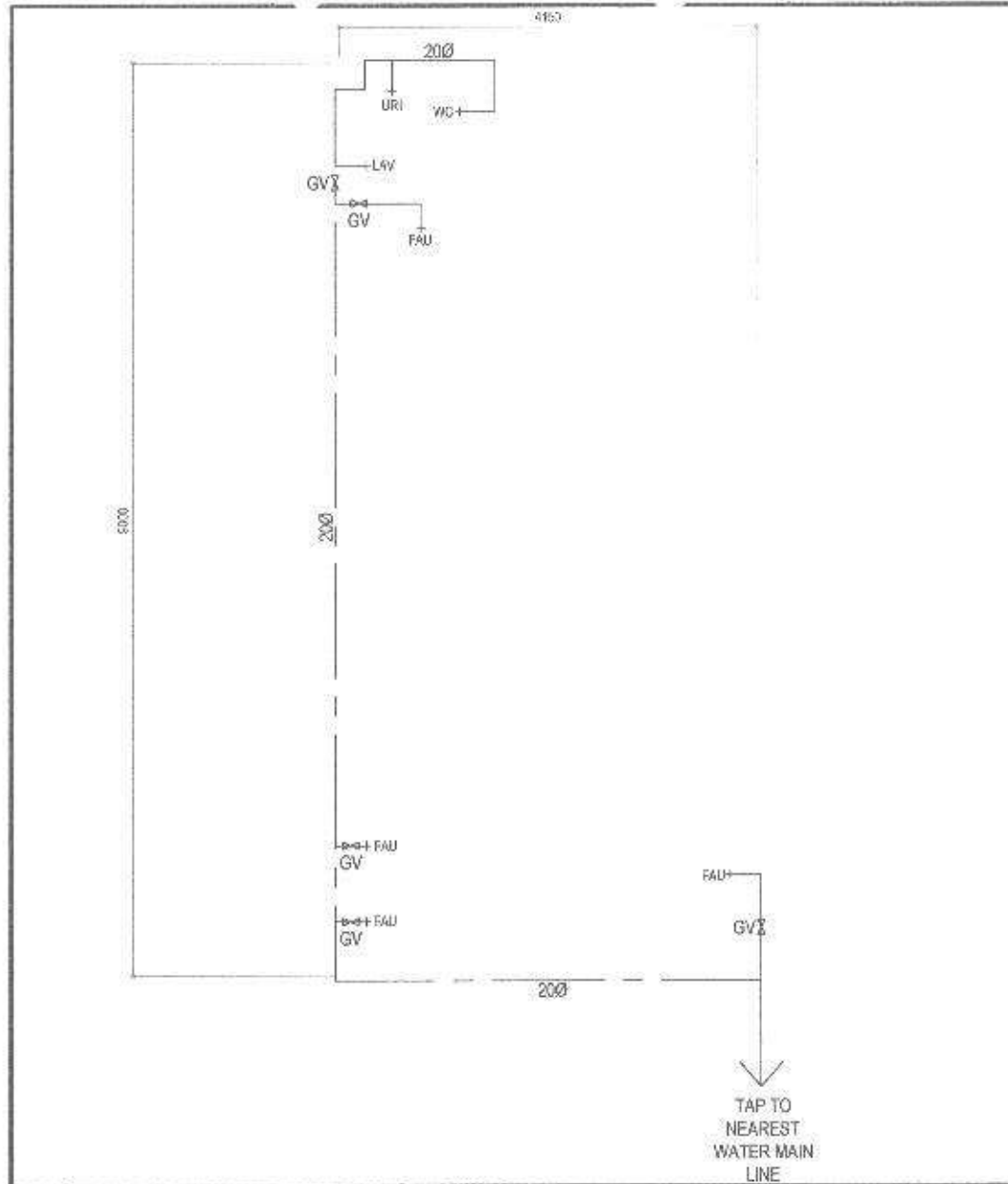
**1 GENERAL NOTES**

- I. SEWER/WASTE AND VENT SYSTEM**
- SP/WP - SOIL PIPE/WASTE PIPE
  - VP/WAC - VENT PIPE/VENT AT CEILING
  - CP - STORM DRAIN PIPE
  - FCY/GCO - FLOOR CLEANOUT TO GROUND CLEANOUT
  - CCG - CEILING CLEAN-OUT
  - DS - DRAINAGE STACK/DOWNSPOUT
  - VSTR - VENT STACK/EXTENDED THROUGH ROOF
  - SS - SOIL STACK
  - FD - FLOOR DRAIN
  - CB - CATCH BASIN
  - AD - AREA DRAIN
  - STL - STALL TYPE URINAL
  - GT - GREASE TRAP
- II. WATER DISTRIBUTION SYSTEM**
- CWL - COLD WATER LINE
  - CWR - COLD WATER RISER
  - GV - GATE VALVE
  - CV - CHECK VALVE
  - WM - WATER METER
  - SD - BALDRY DRAIN



**2 LEGENDS AND SYMBOLS** **4** DOUBLE SINK PORTABLE HAND WASHING SANITARY LINE SCALE 1:30 M. **6** DOUBLE SINK PORTABLE HAND WASHING WATER LINE SCALE 1:30 M.

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	DATE:				GENERAL NOTES: - SINGLE SINK PORTABLE HAND WASHING SANITARY AND WATER LINE LAYOUT - DOUBLE SINK PORTABLE HAND WASHING SANITARY AND WATER LINE LAYOUT	
	LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	CHECKED BY:	ENGR. LEO S. DEL ROSARIO TEAM LEADER & PROJECT ENGINEER	ENGR. ISABANI R. VERZOSA, JR. CITY CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAGER		



**1 WATER LINE LAYOUT**

SCALE: 1:50 M

**2 SEWER LINE LAYOUT**

SCALE: 1:50 M

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DESIGNED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	<p><b>PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER</b></p>	DATE:	 <b>ENGR. LEO S. DEL ROSARIO</b> <small>HEAD, PLANNING &amp; PROGRAMMING DIVISION</small>	 <b>ENGR. ISAGANI R. VERZOSA, JR.</b> <small>DEPUTY CITY ENGINEER (PLANNING)</small>	 <b>HON. MA. JOSEFINA G. BELMONTE</b> <small>CITY MAYOR</small>	<p>WA - LRL (SEWERAGE) SEWER LINE LAYOUT</p>	<p><b>PL-02</b> <b>11/14</b></p>
	LOCATION:	CHECKED BY:					
BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	AM						

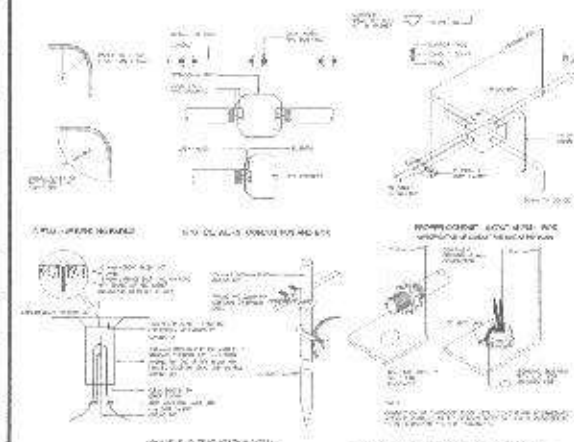
- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER, FINAL CERTIFICATE OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE EMT OR IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILLIMETERS.
- PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THERE ARE NOT INDICATED ON THE PLANS. SIZE OF ALL PULL BOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS-BUILT" PLAN.
- ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 200V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFI" ON THE PLANS.
- ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND RINGED.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:  
 RECEPTACLE OUTLET - 300 MM AFF, 150MM ABOVE WORKING COUNTER.  
 LIGHTING SWITCH - 1400 MM AFF  
 PANELBOARD - 1600 MM AFF.
- 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.
- ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE DESCRIBED ACTUAL LOCATIONS, LEVEL AND DIMENSIONS OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOBSITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DECISION.
- ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 35 SQ. MM. THW #2 COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 35 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

LINE 1 - RED  
 LINE 2 - YELLOW  
 NEUTRAL - WHITE  
 GROUND - GREEN

- BOXES, WIRE, SWITCHES ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:  
 MAXIMUM WIDTH OF THE WIDEST SURFACE STEEL:  
 UP TO INCLUDING 152.40 MM                      GA 18 PAINTED WITH METAL PRIMER EPOXY AND TOPOCOAT  
 OVER 152.40 MM BUT NOT OVER 457.00                      GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPOCOAT  
 OVER 457.00 MM BUT NOT OVER 762.00                      GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPOCOAT  
 OVER 762.00 MM    GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPOCOAT
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCB. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 60 HERTZ, 200V AC NOMINAL.
- CONDUITS IN NO CASE SHALL THERE 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 CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR, INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT. REPRESENTATIVE THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHMS.

**1 GENERAL NOTES**

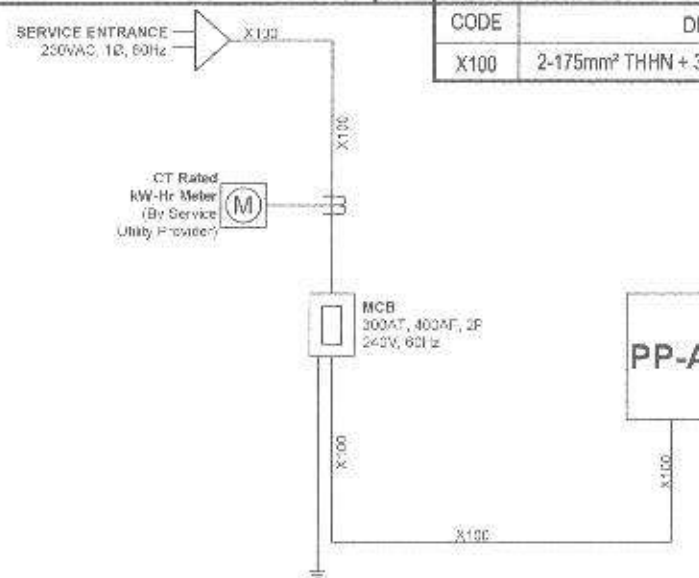
	8W LED TUBE LIGHT
	8 WATTS LED BULB
	100mm x 100mm Ceiling Mounted Exhaust Fan
	Special Purpose Outlet, AC, IREF
	Lighting/Power Panel
	Circuit Home run
	Circuit Breaker
	Grounding



**2 LEGENDS**

**3 PIPE CONNECTION DETAIL**

CODE	DESCRIPTION
X100	2-175mm <sup>2</sup> THHN + 30mm <sup>2</sup> THW (G) in 80mm Ø IMC



**4 SINGLE LINE DIAGRAM**



Republika ng Pilipinas  
 Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:	REVIEWER: <i>Rick</i>
PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	DATE: September 22, 2021
	CHECKED BY: <i>Jam</i>
LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	REVISION:

SUBMITTED BY:  
  
**ENGR. LEO S. DEL ROSARIO**  
 HEAD, PLANNING & DESIGN DIVISION

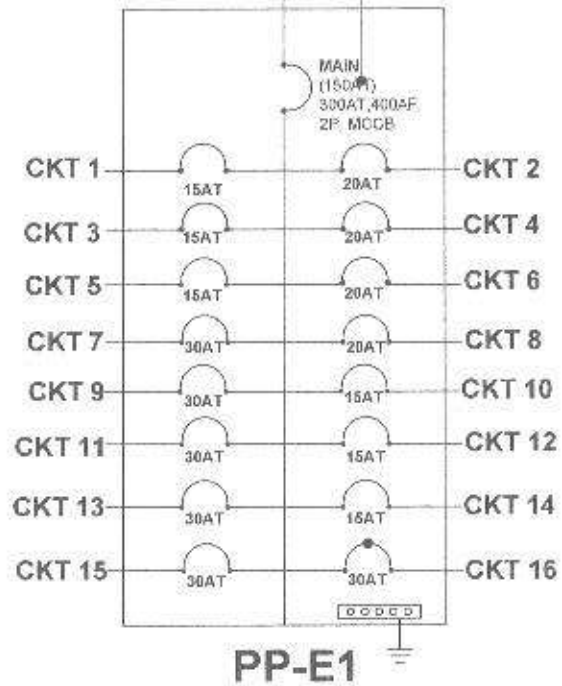
RECOMMENDING APPROVAL:  
  
**ENGR. SACANI R. VERZOSA, JR.**  
 DEPUTY CITY ENGINEERING SUPERVISOR

APPROVED BY:  
  
**HON. MA. JOSEFINA G. BELMONTE**  
 CITY MAYOR

SHEET CONTENT  
 GENERAL NOTES-  
 LEGENDS  
 PIPE CONNECTION  
 DETAIL  
 SINGLE LINE  
 DIAGRAM

SHEET NO.  
  
**EL-01**  
**1214**

230VAC, 1Ø, 60Hz X100  
 REPLACE THE EXISTING 150AT WITH 30AT



Ckt. No.	Load Description	Unit	Voltage	VA	Amps/ckt	CB		Wire	Ground	Conduit
						AT	P			
1	CB EXISTING		230	2208	9.62	15	3			
2	CB EXISTING		230	2944	12.76	20	2			
3	CB EXISTING		230	2208	9.62	15	3			
4	CB EXISTING		230	2944	12.76	20	2			
5	CB EXISTING		230	2208	9.62	15	3			
6	CB EXISTING		230	2944	12.76	20	2			
7	CB EXISTING		230	4416	19.20	30	2			
8	CB EXISTING		230	2944	12.76	20	2			
9	CB EXISTING		230	4416	19.20	30	2			
10	CB EXISTING		230	2208	9.62	15	3			
11	CB EXISTING		230	4416	19.20	30	2			
12	CB EXISTING		230	2208	9.62	15	3			
13	CB EXISTING		230	4416	19.20	30	2			
14	CB EXISTING		230	2208	9.62	15	3			
15	CB EXISTING		230	4416	19.20	30	2			
16	1.5HP AC U Combowash	1	230	4416	19.20	30	2	2 - 50mm <sup>2</sup> THHN	1 - 1/2" 50mm <sup>2</sup> THHN	1/2" PVC Rounding
Total										
		VA	22464	1.50		Wire:				
		A	22464	1.25		300 XT, 400 AF, 200W, Modified Class Circuit Breaker				
		W	280	300A		New or Enhanced:				
						2 - 125mm <sup>2</sup> THHN Wires - 1 - 30mm <sup>2</sup> THHN				
						1 - 50mm <sup>2</sup> 1/2" Pipe				

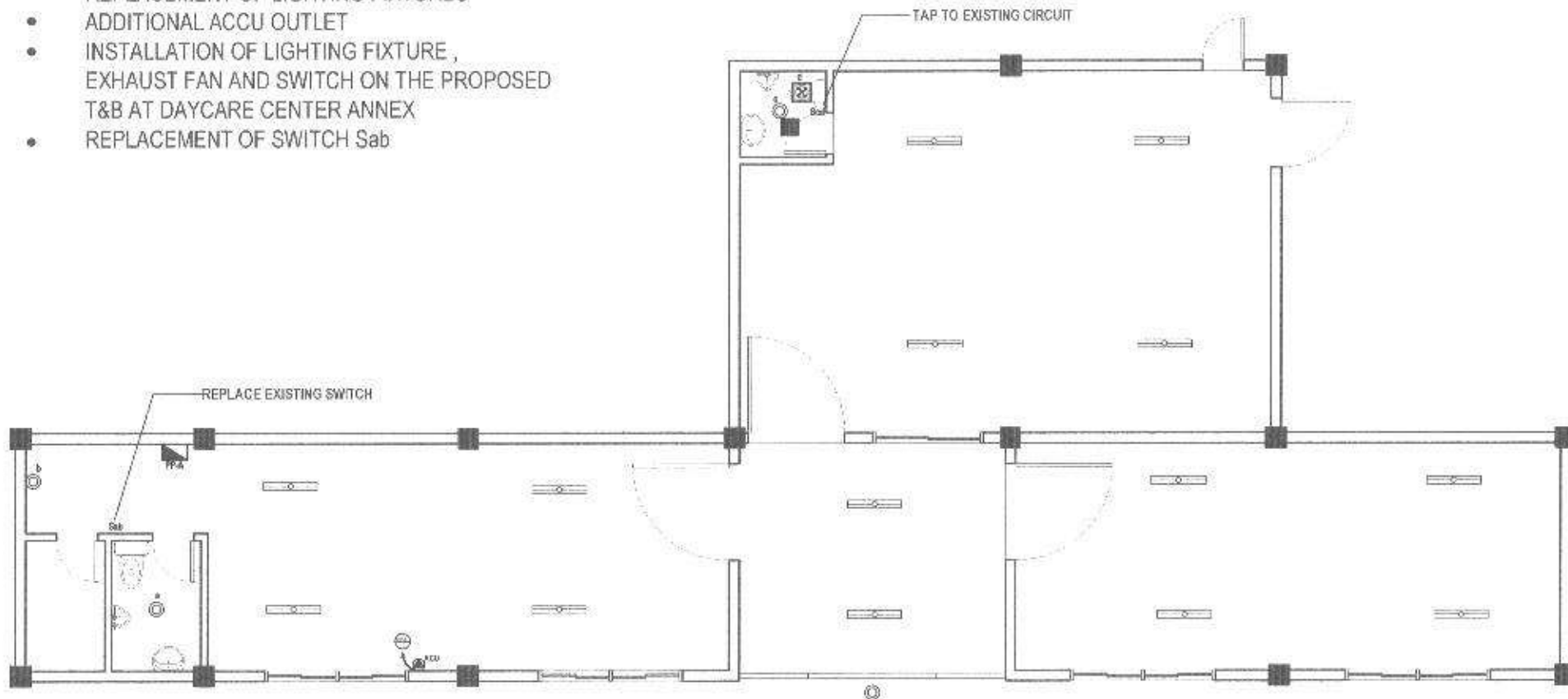
1 PANEL DIAGRAM

2 SCHEDULE OF LOADS

<p>Republika ng Pilipinas                  Lungsod ng Quezon  <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>SSM</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO:
	PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	CHECKED BY: <i>Jm</i>	<i>[Signature]</i> ENGR. LEO S. DEL ROSARIO HSE, PLANNING & PROGRAM DIVISION	<i>[Signature]</i> ENGR. ISAGANI R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT	<i>[Signature]</i> HON. MA. JOSEFINA G. BELMONTE CITY MAYOR	PANEL DIAGRAM SCHEDULE OF LOADS	<b>EL-02</b> <b>13/14</b>
	LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	REVISIONS:					

NOTE :

- REPLACEMENT OF LIGHTING FIXTURES
- ADDITIONAL ACCU OUTLET
- INSTALLATION OF LIGHTING FIXTURE , EXHAUST FAN AND SWITCH ON THE PROPOSED T&B AT DAYCARE CENTER ANNEX
- REPLACEMENT OF SWITCH Sab



1

**GROUND FLOOR LIGHTING AND POWER LAYOUT**

SCALE : 1:50 M



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:	DRAWN BY: <i>[Signature]</i>
PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAYCARE CENTER	DATE: <i>[Signature]</i>
	CHECKED BY: <i>[Signature]</i>
LOCATION: BARANGAY ESCOPA 3 DISTRICT 3, QUEZON CITY	REVISION:

SUBMITTED BY:
<i>[Signature]</i>
<b>ENGR. LEO S. DEL ROSARIO</b> REG. ELECTRICAL ENGINEER

RECOMMENDING APPROVAL:
<i>[Signature]</i>
<b>ENGR. ISAGAN R. VERZOSA, JR.</b> CITY ENGINEERING DEPARTMENT

APPROVED BY:
<i>[Signature]</i>
<b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR

SHEET CONTENT
GROUND FLOOR LIGHTING AND POWER LAYOUT

SHEET NO.
<b>EL-03</b> <b>1414</b>

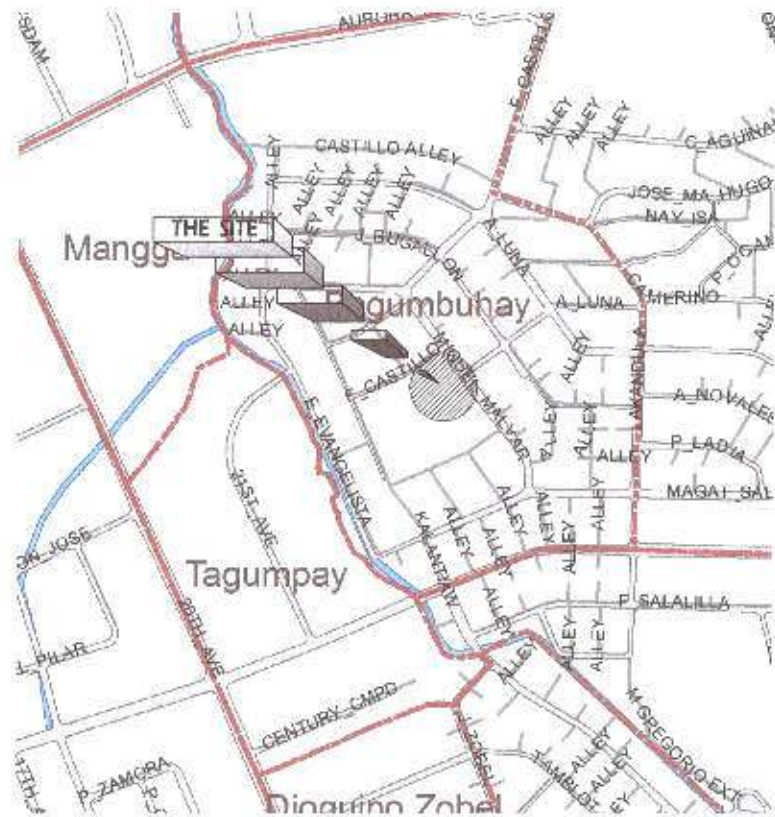
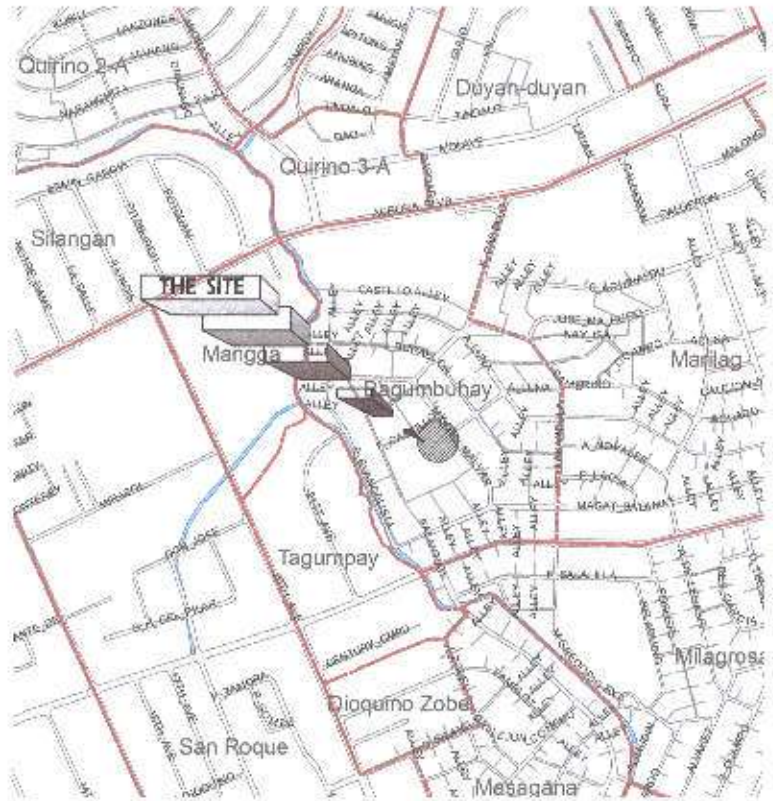


TABLE OF CONTENT

AR-01	VICINITY MAP LOCAL DUMP
AR-02	SITE DEVELOPMENT PLAN
AR-03	EXISTING FLOOR PLAN PROPOSED FLOOR PLAN
AR-04	DISTRICTED CEILING PLAN FRONT ELEVATION REAR ELEVATION
AR-05	LEFT ELEVATION RIGHT ELEVATION SCHEDULE OF DOORS AND WINDOWS
AR-06	CROSS SECTION LONGITUDINAL SECTION LETTERING DETAILS
PL-01	GENERAL NOTES LEGEND AND SYMBOLS WATERLINE LAYOUT REMOVAL LAYOUT
EL-01	GENERAL NOTES LOADING AND SYMBOLS ELECTRICAL CONNECTION DETAILS LIGHTING AND POWER LAYOUT

1 VICINITY MAP

SCALE: NTS

2 LOCATION MAP

SCALE: NTS



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF  
BAGUMBUHAY DAY CARE CENTER**

LOCATION:  
BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY

DRAWN BY: *[Signature]*  
DATE:  
CHECKED BY: *[Signature]*  
REVISIONS:

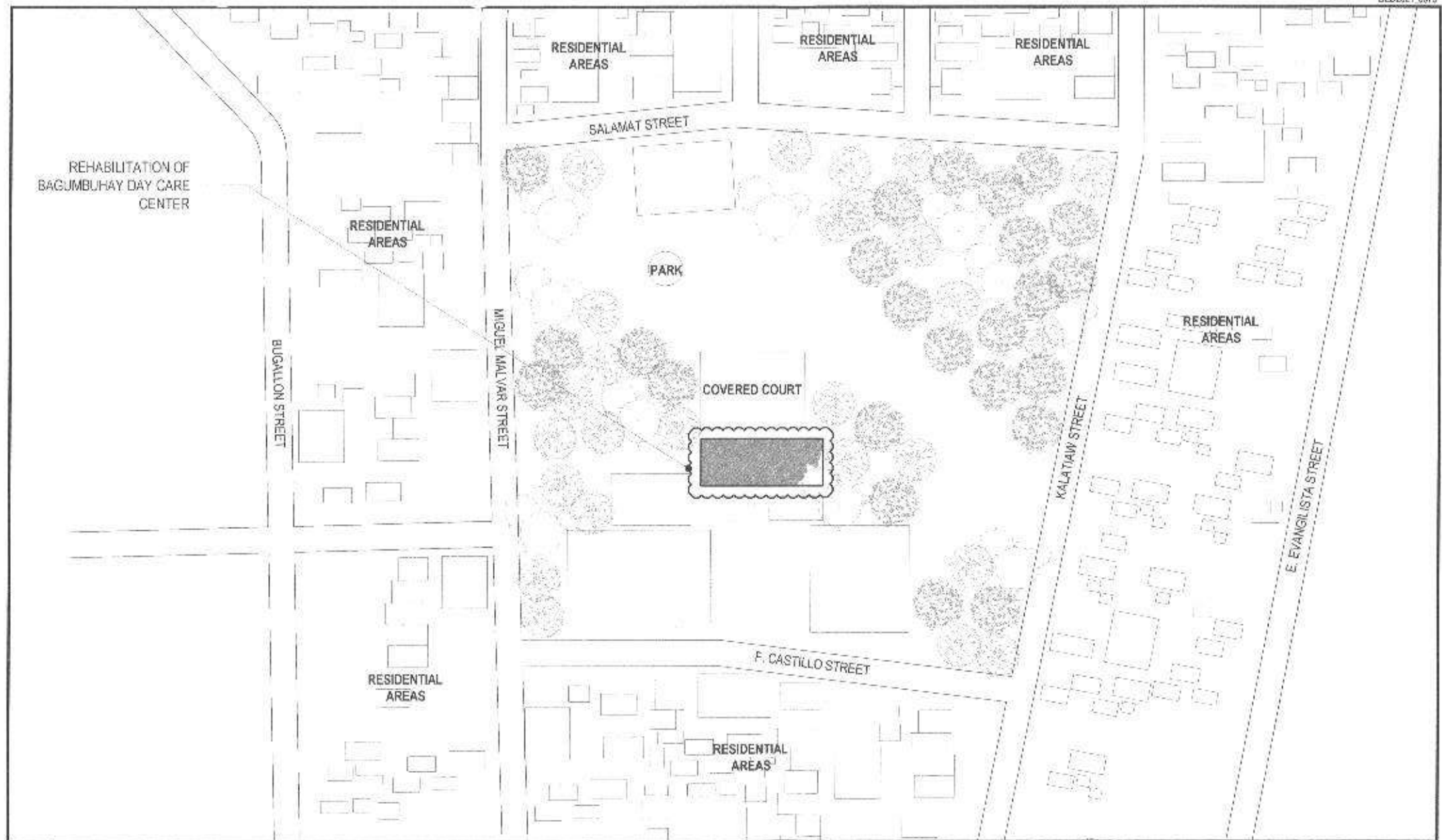
SUBMITTED BY:  
*[Signature]*  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
*[Signature]*  
**ENGR. ISAGANI R. VERZOSA, JR.**  
CHIEF, CITY ENGINEERING DEPARTMENT

APPROVED BY:  
*[Signature]*  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAJOR


SHEET CONTENT  
VICINITY MAP  
LOCATION MAP

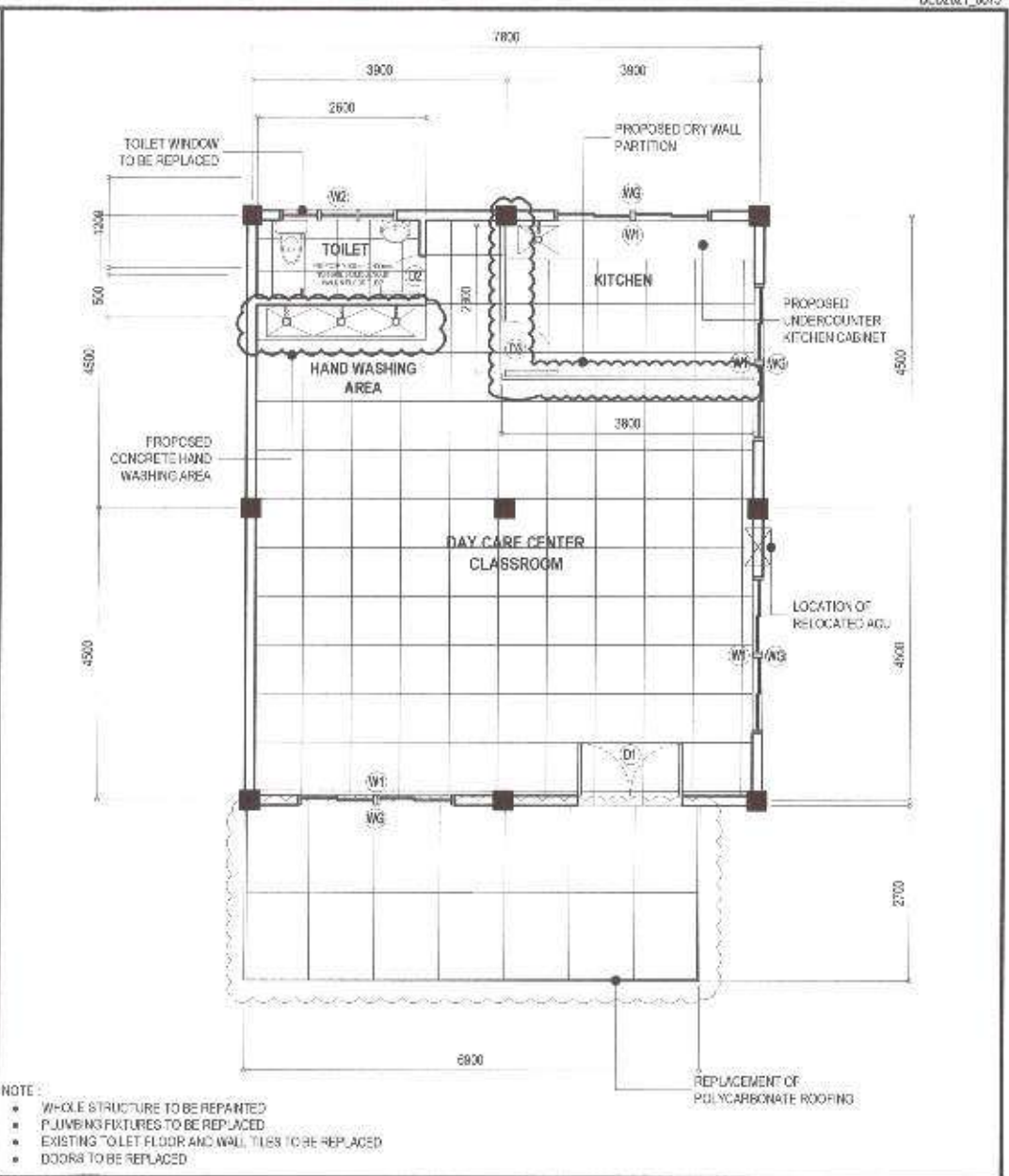
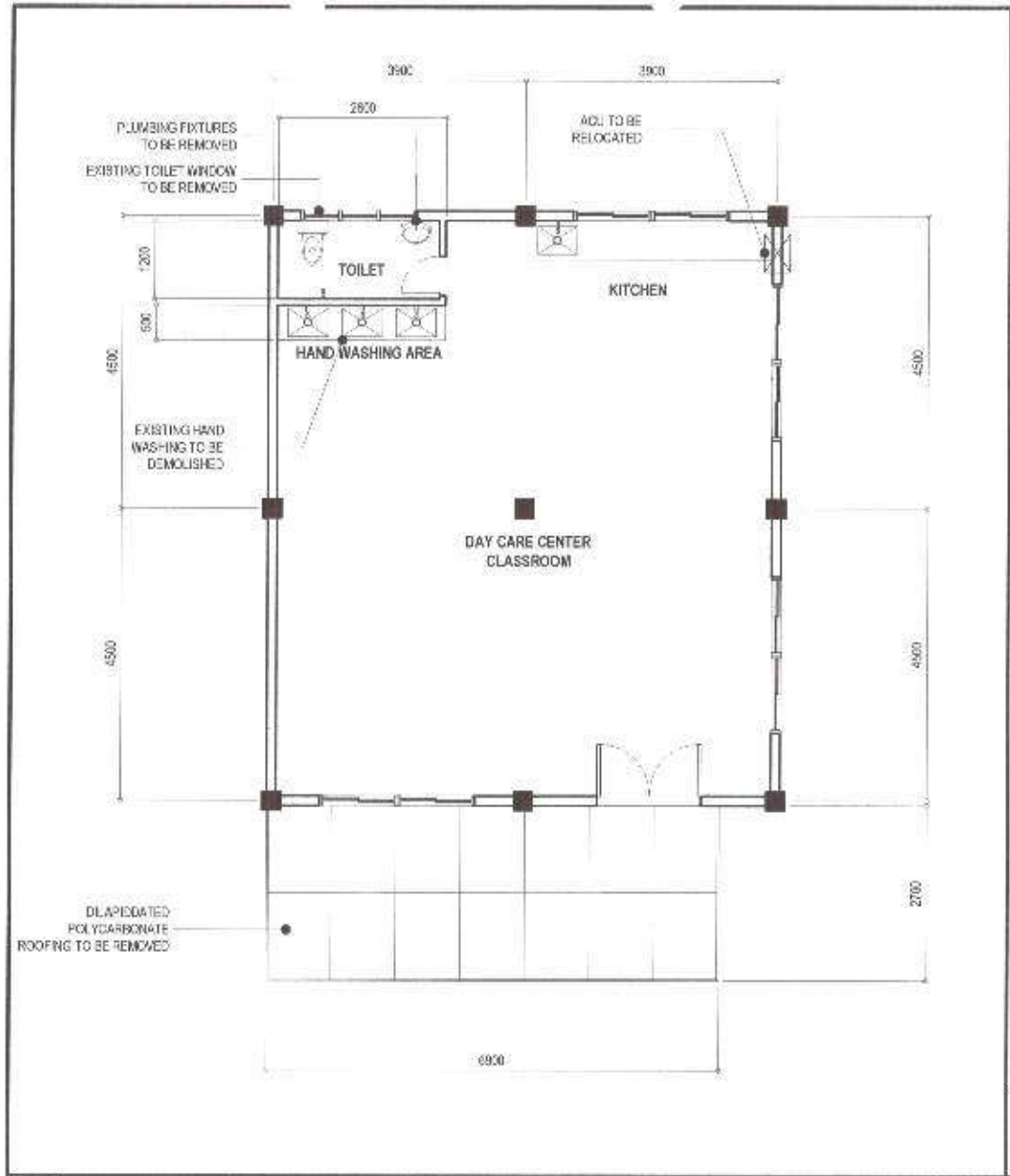
SHEET NO.  
**AR-01**  
**01/08**



**1 | SITE DEVELOPMENT PLAN**

SCALE : 1:175 M.

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>J. J.</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER	DATE:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	SITE DEVELOPMENT PLAN	<b>AR-02</b>
	LOCATION: BARANGAY BAGUMBUHAY DISTRICT 3, QUEZON CITY	CHECKED BY: <i>J. J.</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. DISTRICT ENGINEERING DIVISION	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR		<b>02/08</b>

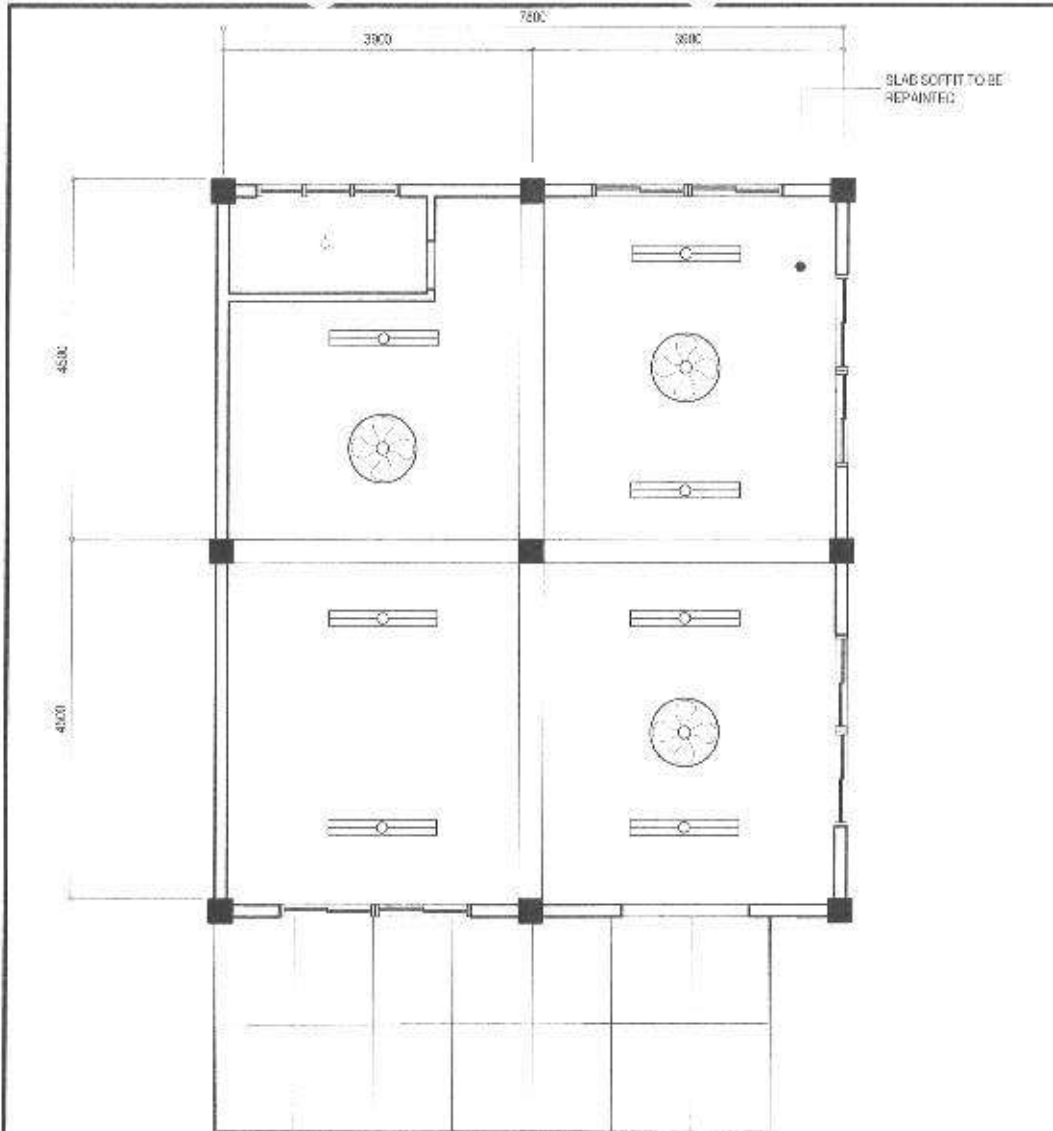


1 EXISTING FLOOR PLAN SCALE : 1:75 M.

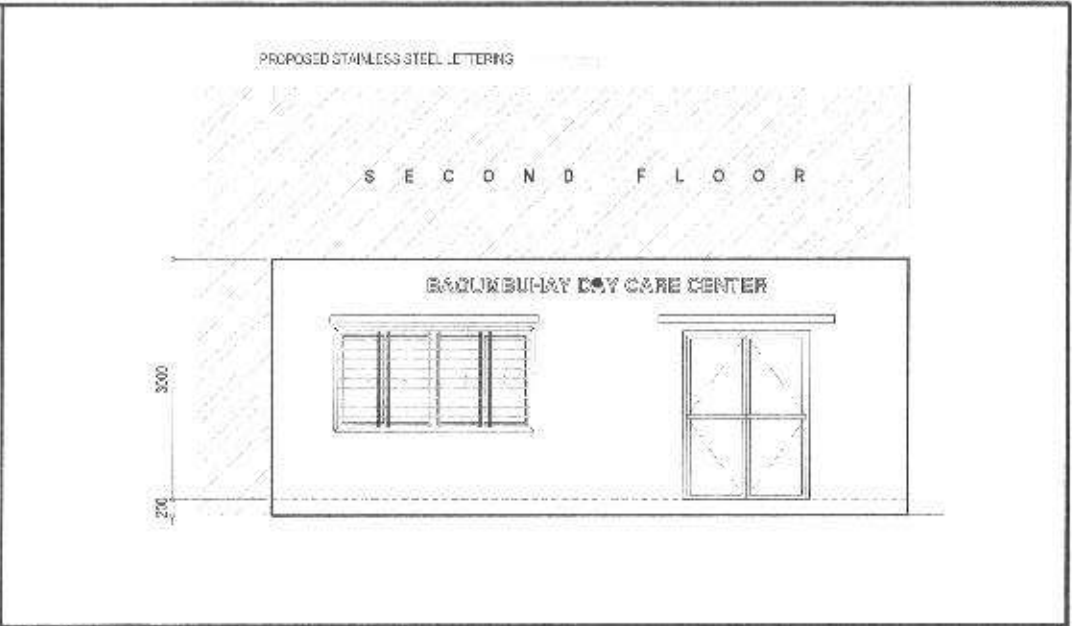
2 PROPOSED FLOOR PLAN SCALE : 1:75 M.

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>J.A.P.</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER	DATE:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	EXIST'G FLOOR PLAN PROPOSED FLOOR PLAN	
	LOCATION: BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY	CHECKED BY: <i>J.A.P.</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLUMBING & PIPING DIVISION	ENGR. BAGANI R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAJOR		

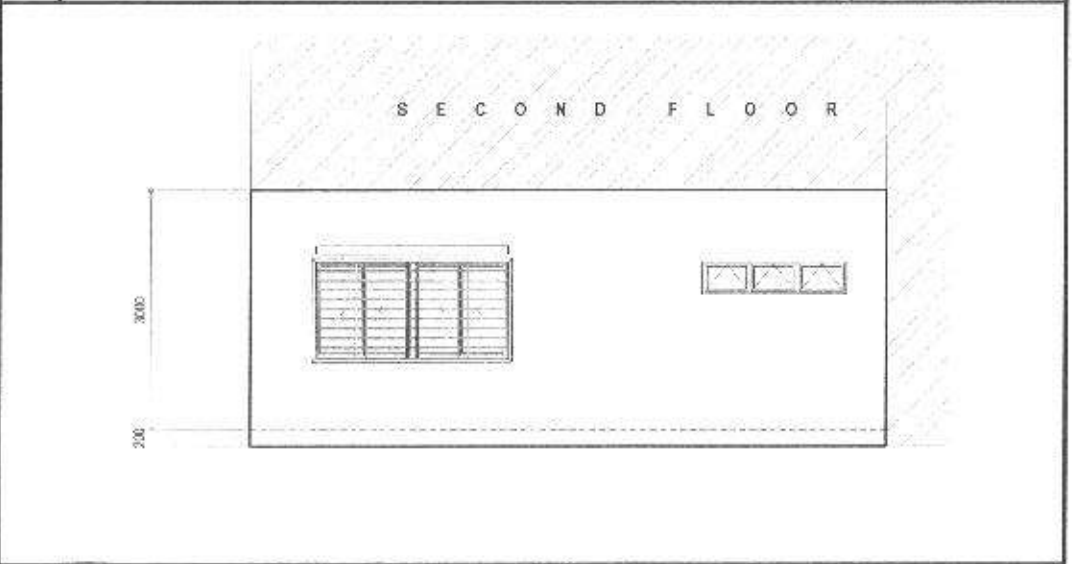




NOTE:  
1. LIGHTING FIXTURES TO BE REPLACED



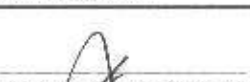




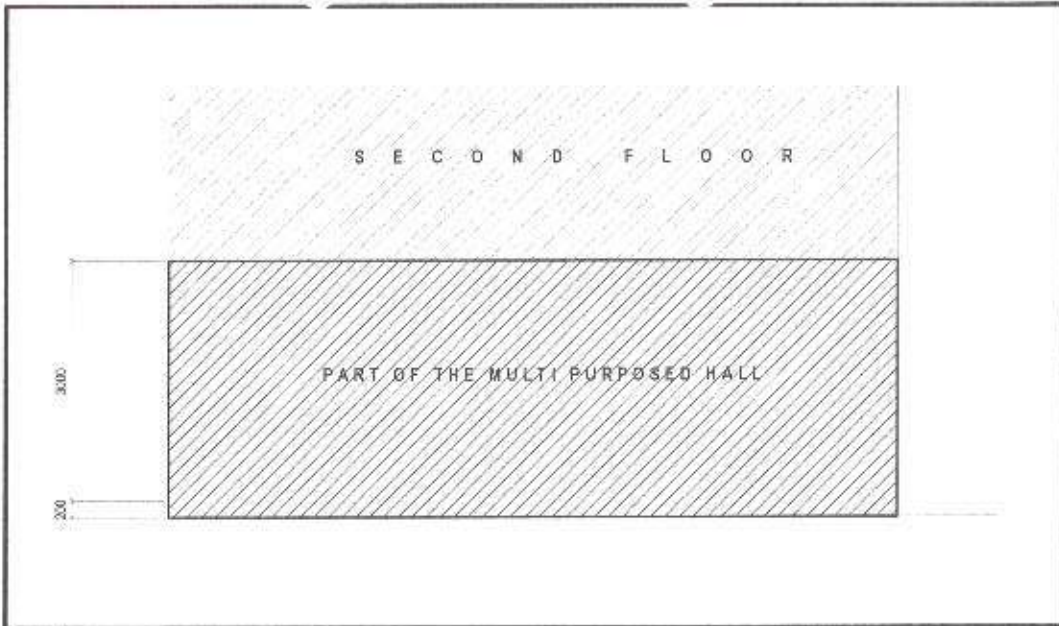
**2 FRONT ELEVATION** SCALE : 1:75 M.



**3 REAR ELEVATION** SCALE : 1:75 M.

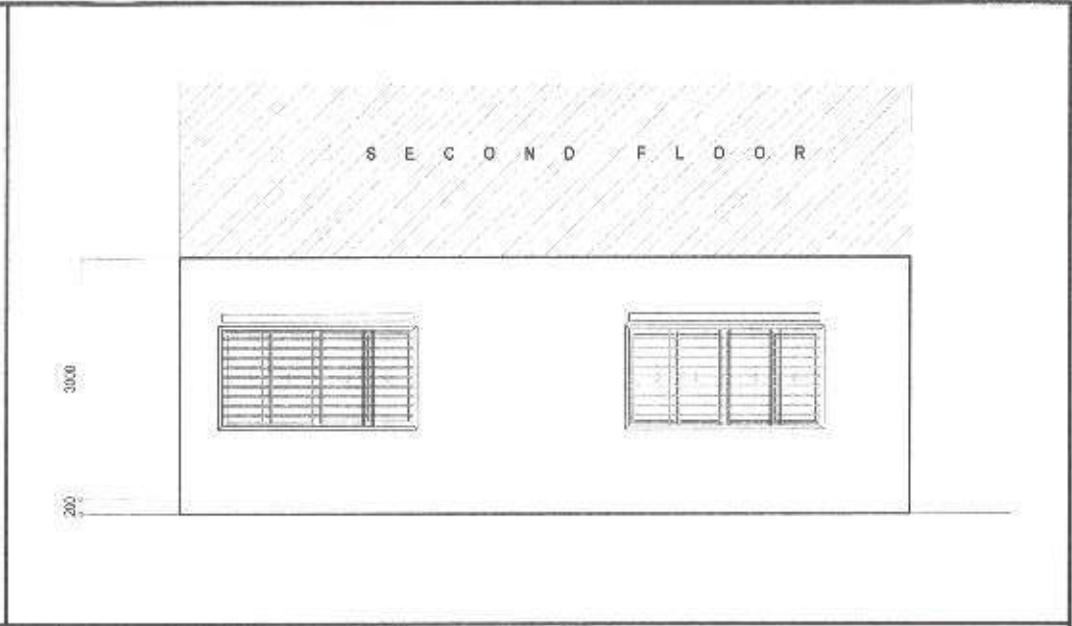
**1 REFLECTED CEILING PLAN** SCALE : 1:75 M.

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	<b>PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER</b>	DATE:				REFLECTED CEILING PLAN FRONT ELEVATION REAR ELEVATION	<b>AR-04</b> <b>04/08</b>
	LOCATION: BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY	CHECKED BY: 	REVISIONS:	<b>ENGR. LEO S. DEL ROSARIO</b> HEAD, PLANNING PROGRAMMING DIVISION	<b>ENGR. ISAGANI R. VERZOSA, JR.</b> DEPT. CITY ENGINEERING DEPARTMENT	<b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR	



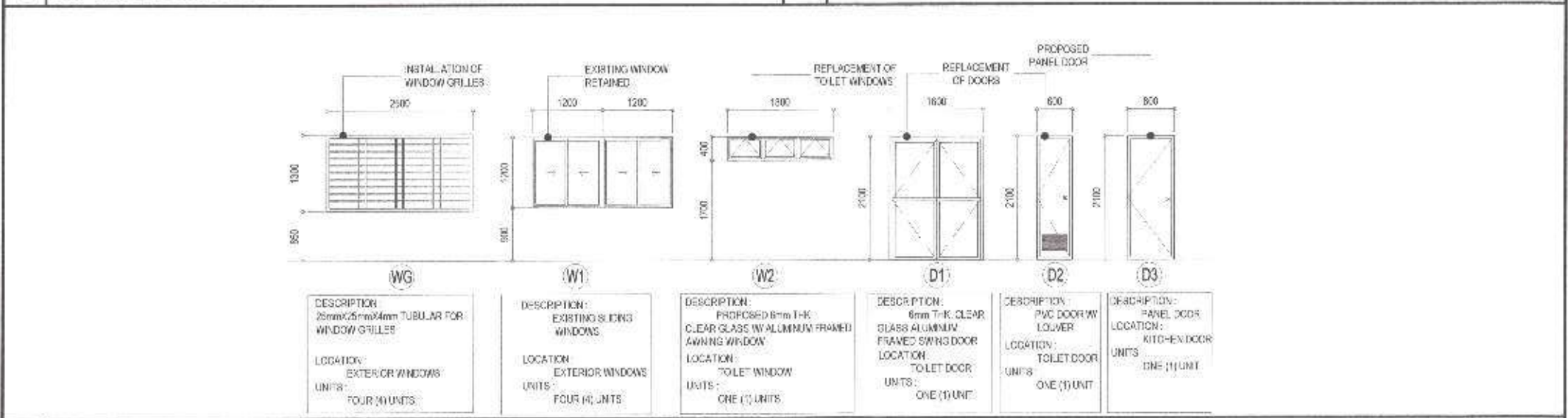
1 LEFT SIDE ELEVATION

SCALE : 1:75 M



2 RIGHT SIDE ELEVATION

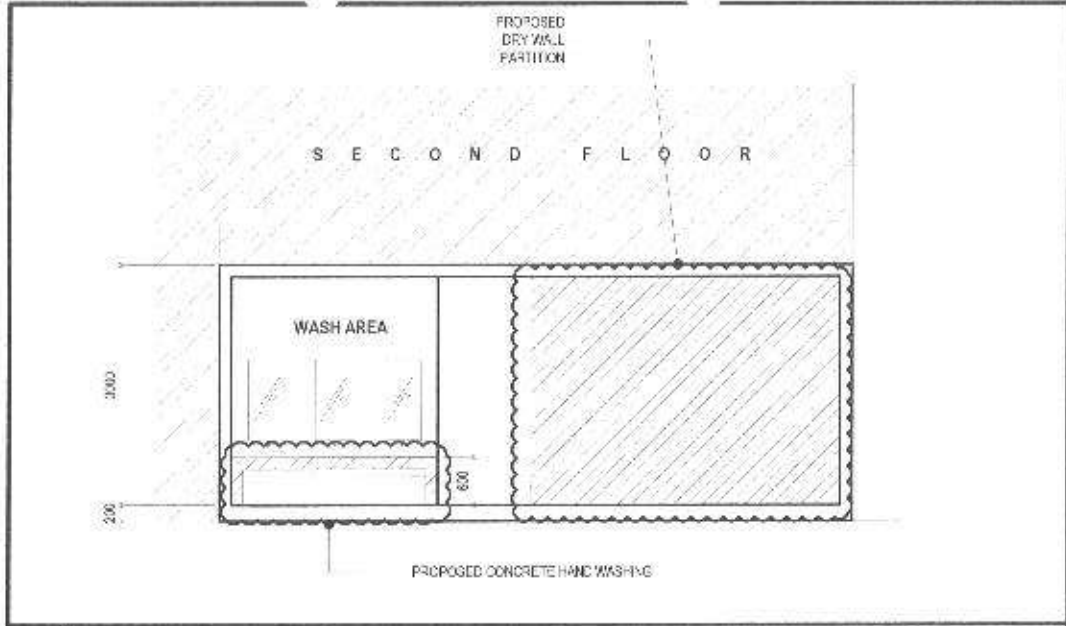
SCALE : 1:75 M



3 SCHEDULE OF DOORS AND WINDOWS

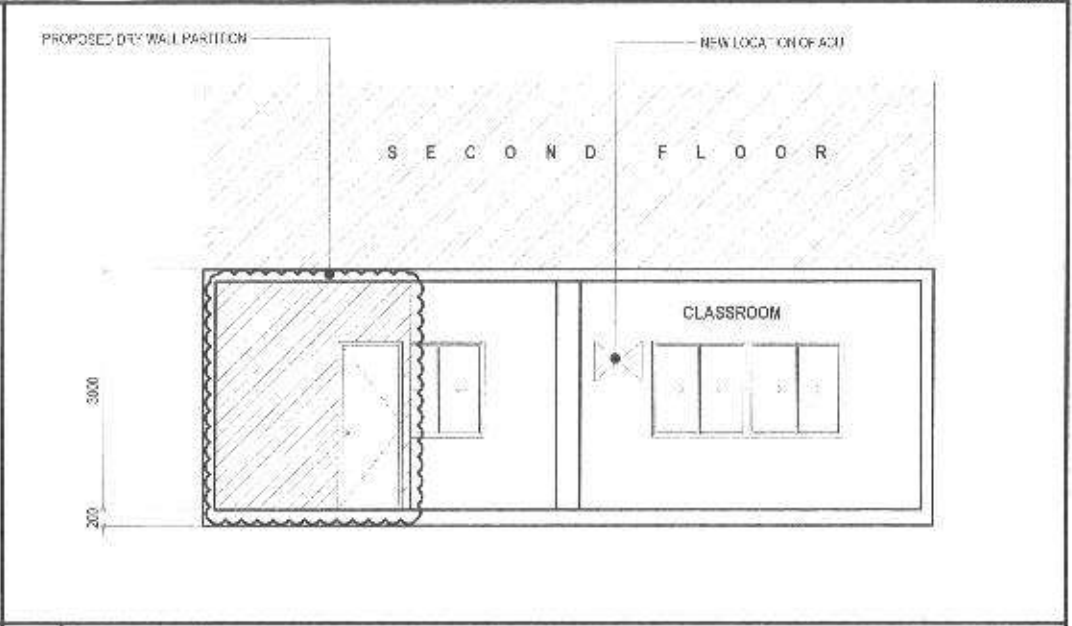
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<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>[Signature]</i>	SUBMITTED BY: <i>[Signature]</i>	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER	DATE:	<i>[Signature]</i>	ENGR. ISAGANI R. VERZOSA, JR. C.E. CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY M'OR	LEFT ELEVATION, RIGHT ELEVATION, SCHEDULE OF DOORS AND WINDOWS	AR-05 05/08
	LOCATION: BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY	DESIGNED BY: <i>[Signature]</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLUMBING & PROGRAMMING DIVISION				



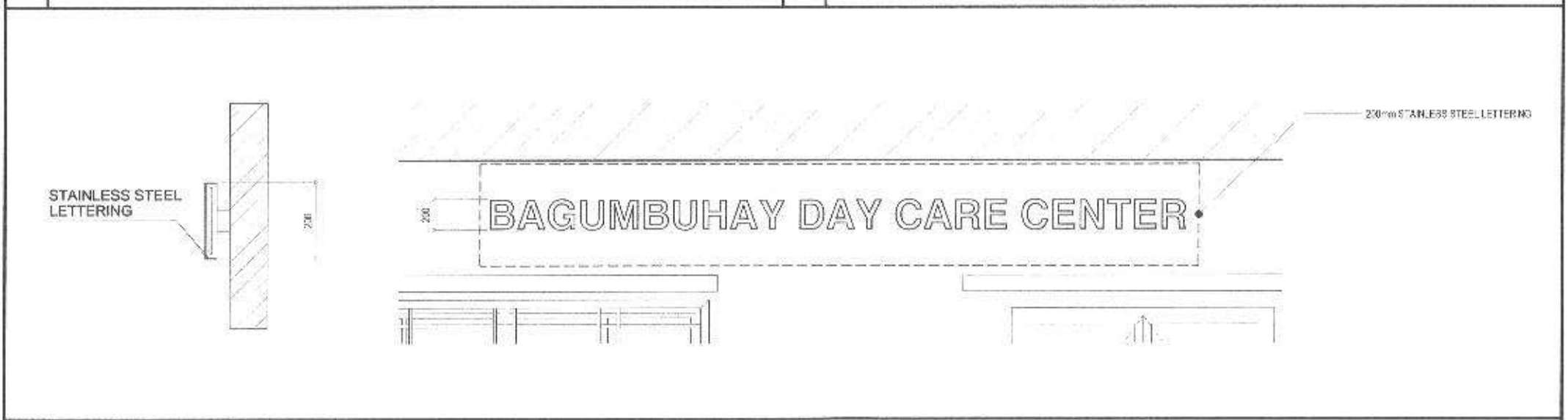
1 CROSS SECTION

SCALE : 1:75 M.




2 LONGITUDINAL SECTION

SCALE : 1:75 M.



3 LETTERING DETAILS

SCALE : 1:75 M.

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>JSP</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER	DATE:	<i>[Signature]</i>	<i>[Signature]</i>	HON. MA. JOSEFINA G. BELMONTE 12TH MAYOR	CROSS SECTION, LONGITUDINAL SECTION, LETTERING DETAILS	<b>AR-06</b> <b>06/08</b>
	LOCATION: BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY	CHECKED BY: <i>JSP</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & DESIGN DIVISION	ENGR. ISAGANI R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT			

1. ALL PLUMBING WORKS AND MATERIALS INDICATED HEREIN SHALL BE COMPLIANT TO THE LATEST EDITION OF NATIONAL PLUMBING CODE, THE RULES AND REGULATIONS OF LOCAL AUTHORITIES CONCERNED, THE RULES AND REGULATIONS OF LOCAL UTILITY COMPANIES AND THE PROVISIONS OF THE LAND DEVELOPER WHEN AND WHERE APPLICABLE.
2. THE PLUMBING LAYOUT IS ONLY DIAGRAMMATIC, PIPES, CLEANOUTS AND CHECK VALVES SHALL BE CONCEALED AS MUCH AS POSSIBLE. IT IS NOT INTENDED TO SHOW THE ACTUAL DIMENSION OF THE PIPES AND FIXTURES IN THE DRAWING BUT ALL THE PIPES AND FIXTURE SHALL BE INSTALLED AS AND WHERE INDICATED. ANY RELOCATION WILL REQUIRE PROPER EXECUTION IN RELATION WITH OTHER TRADES.
3. THE PLUMBING CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT THE SITE AND SHALL COORDINATE THE WORK WITH TRADES.
4. PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL MEMBERS UNLESS OTHERWISE SPECIFIED OR ALLOWED.
5. MINIMUM SLOPE FOR HORIZONTAL SEWER LINES SHALL BE 1% AND FOR DRAIN LINES SHALL BE 5%.
6. PROPOSED PLUMBING UTILITIES SHALL CONFORM WITH THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING PIPES UTILITIES.
7. CONNECTION OF FIXTURES TO PIPED AND FITTING SHALL BE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
8. ALL FLOOR DRAINS SHALL BE VERIFIED INDIVIDUALLY.
9. ALL CLEAN OUT FERRULES SHALL BE FLUSH MOUNTED TO WALL AND SHALL BE PROVIDED WITH POLISHED COVER CAPS. DO NOT INSTALL FLOOR CLEAN OUTS EXCEPT AT LINES ON GRADE AND SERVICE AREA NOT SUBJECT TO TRAFFIC.
10. ALL UNDER GROUND G.I. PIPES IN DIRECT CONTACT WITH SOIL SHALL BE PROVIDED WITH TWO (2) COATS OF PROTECTIVE TAR COVERING AND WRAPPED WITH JUTE CLOTH THOROUGHLY SOAKED IN TAR OR ASPHALT.
11. PROVIDE VENT STACK AND VENT PIPE THRU ROOF OF CAST IRON SERVICE WEIGHT AS REQUIRED.
12. ALL CAST IRON PIPES SHALL BE OF APPROVED QUALITY AND G.I. FOR WATER DISTRIBUTION LINES SHALL BE SCHEDULE 40 U.S. STANDARD WEIGHT.
13. PROVIDE GATE VALVES TO ALL WATER SUPPLY LINES TO FIXTURES.
14. ALL HOT WATER LINES SHALL BE PROVIDED WITH PROPER INSULATION WHERE EXPOSED.
15. ALL INDIVIDUAL BRANCHES TO FIXTURE OR GROUP OF FIXTURES AND/OR EQUIPMENTS SHALL BE PROVIDED WITH AIR CHAMBER OR CAPPED VERTICAL PIPE EXTENSIONS OF DIMENSIONS AS SHOWN.

H = 450 mm FOR 19 mm AND LARGER

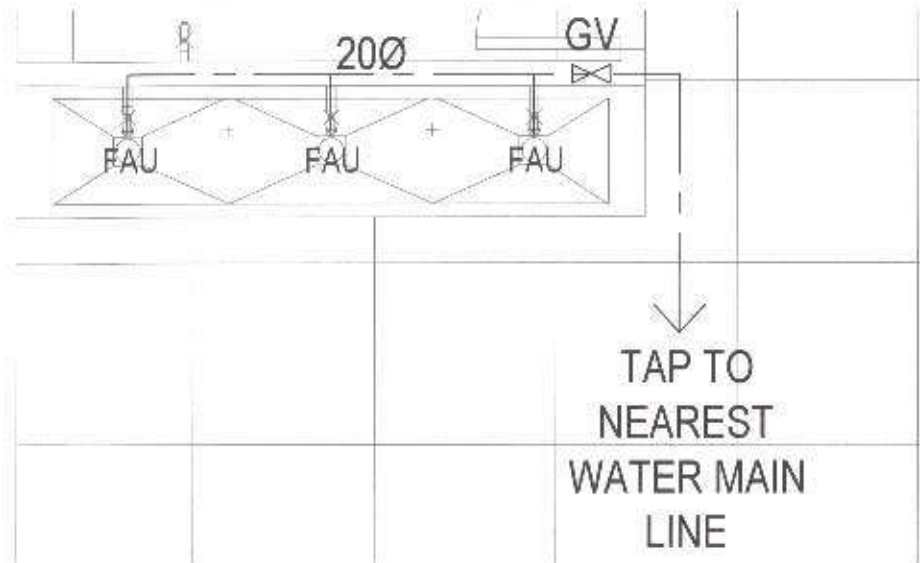
H = 300 mm FOR 12 mm Ø AND SMALLER

16. ALL HOSE BIBBS SHALL BE 19 mm (3/4") UNLESS OTHERWISE INDICATED.
17. INLET PIPE OF SEPTIC TANK IS 50 mm HIGHER THAN THE SIPHON PIPE WHICH IS 30 mm HIGHER THAN THE OUTLET PIPE.
18. ALL PLUMBING WORKS AND MANNER OF CONSTRUCTION SHALL BE UNDER THE DIRECT SUPERVISION OF AN ABLE AND DULY LICENSED MASTER PLUMBER OR REGISTERED SANITARY ENGINEER. ANY DISCREPANCIES FOUND IN PLAN SHALL BE NOTIFIED TO THE SAME PERSON.

**1 GENERAL NOTES**

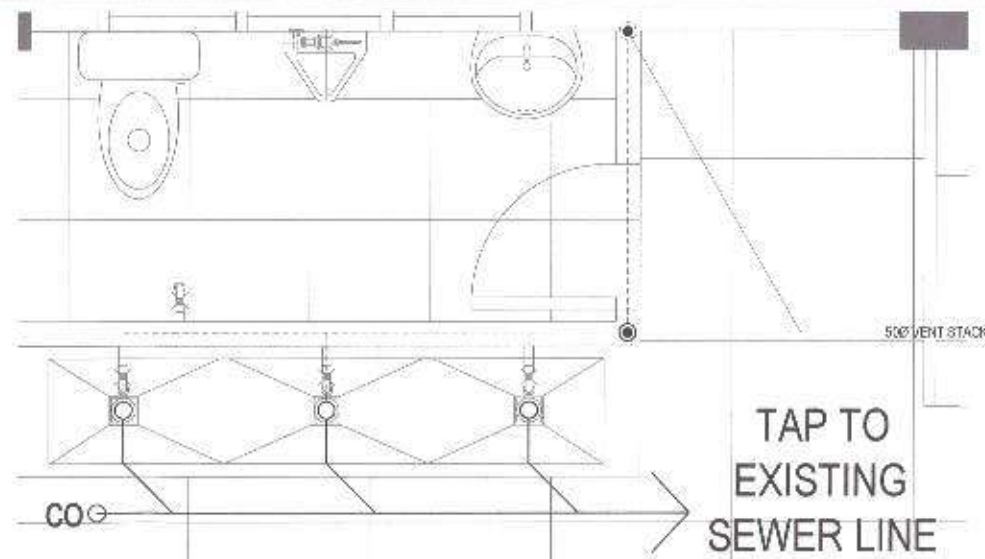
NTS

- ⊘ COUNTER TOP DRAIN
- ⌵ GATE VALVE
- VENT STACK
- CO CLEAN OUT
- FAU FAUCET
- VENT PIPE
- SEWER LINE
- WATER LINE



**3 PROPOSED WASH AREA WATER LINE LAYOUT**

SCALE: NTS

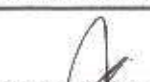


**2 LEGEND AND SYMBOLS**

NTS

**4 PROPOSED WASH AREA SEWER LINE LAYOUT**

SCALE: NTS

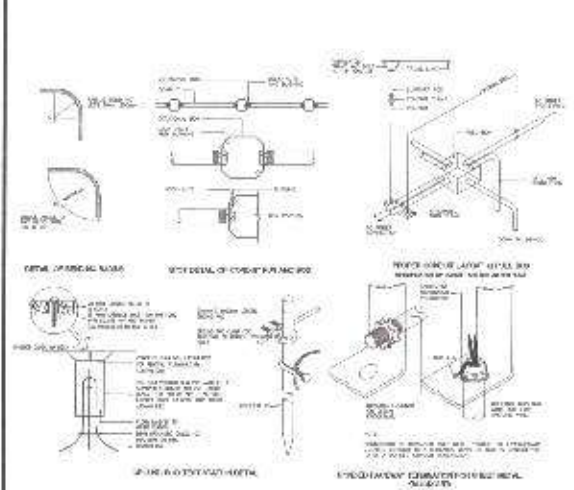
 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE :	DRAWN BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENT :	SHEET NO. :
	<b>PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER</b>	DATE :				GENERAL NOTES, LEGEND AND SYMBOLS, WATER LINE, SEWER LINE	<b>PL-01</b> <b>0708</b>
	LOCATION: BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY	CHECKED BY :	ENGR. LEO S. DEL ROSARIO HEAD PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. C.E. CITY ENG'G DIVISION	HON. MA. JOSEFINA G. BELMONTE CITY WATER		

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER, FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE EMT OR IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILLIMETERS.
- PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS. SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS, SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE 'AS-BUILT' PLAN.
- ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 220 V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFCI" ON THE PLAN.
- ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:  
 RECEPTACLE OUTLET - 300 MM AFF, 150MM ABOVE WORKING COUNTER.  
 LIGHTING SWITCH - 1400 MM AFF.  
 PANEL BOARD - 1500 MM AFF.
- 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.
- ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY BRAND NEW AS SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE DESCRIBED ACTUAL LOCATIONS, LEVEL AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOBSITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION/DECISION.
- ALL LIGHTING AND COMMENCEMENT OUTLET CIRCUITS SHALL BE 3.0 SQ. MM. THIN 2 COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 3.0 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:  
  
 LINE 1 - RED  
 LINE 2 - YELLOW  
 NEUTRAL - WHITE  
 GROUND - GREEN.

- BOXES, WIRE GUTTERS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:  
 MAXIMUM WIDTH OF THE WIDEST SURFACE STEEL:  
 UP TO INCLUDING 152.40 MM      GA 18 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 457.30 MM BUT NOT OVER 762.00      GA 12 PAINTED WITH METAL PRIMER, EPOXY AND TOPCOAT  
 OVER 762.00 MM      GA 10 PAINTED WITH METAL PRIMER, EPOXY AND TOPCOAT.
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICAL ENGINEER AND A DAILY ACCREDITED ELECTRICAL CONTRACTOR BY PCB. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 80 HERTZ 220V AC NOMINAL.
- CONDUITS IN NO CASE SHALL THERE BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY USING HYBRALIC BENDERS. MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHMS.

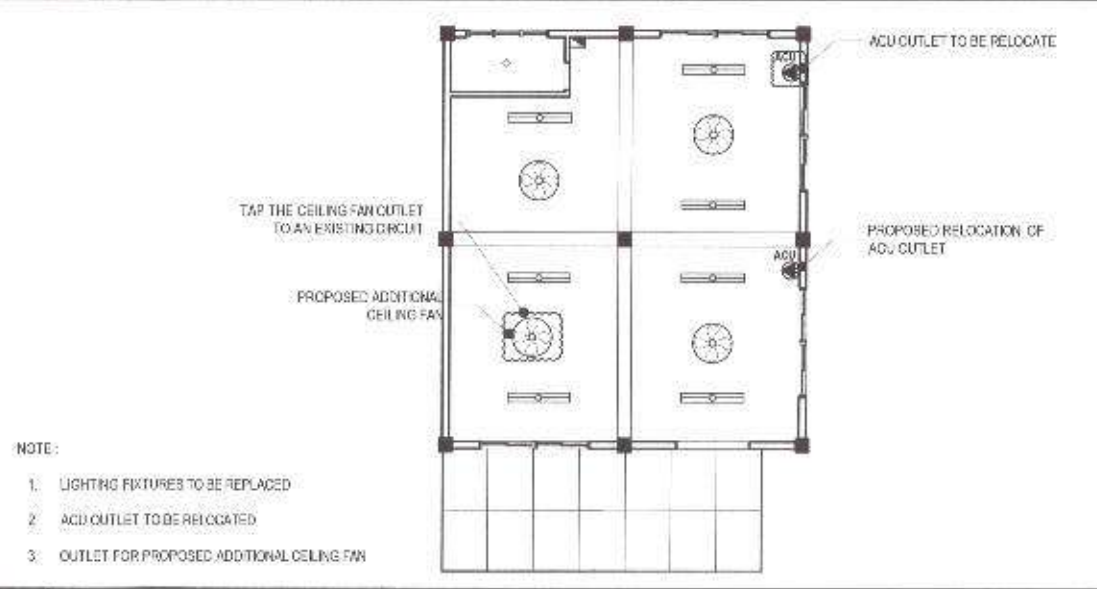
**1 GENERAL NOTES**

	8 WATTS LED TUBE LIGHT
	8 WATTS LED BULB
	100mm x 100mm Ceiling Mounted Exhaust Fan
	Special Purpose Outlet, ACU/REF
	Lighting/Power Panel
	Circuit Homerun
	Circuit Breaker
	Grounding



**2 LEGENDS**

**3 PIPE CONNECTION DETAIL**



**4 GROUND FLOOR LIGHTING AND POWER LAYOUT** SCALE: 1:100 M.

Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:	DATE:
PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER	CHECKED BY: [Signature]
LOCATION:	REVISION NO.:
BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY	

SUBMITTED BY:

[Signature]

**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLUMBING AND ELECTRICAL DIVISION

RECOMMENDING APPROVAL:

[Signature]

**ENGR. ISAGAN R. VERZOSA, JR.**  
CITY ENGINEERING DEPARTMENT

APPROVED BY:

[Signature]

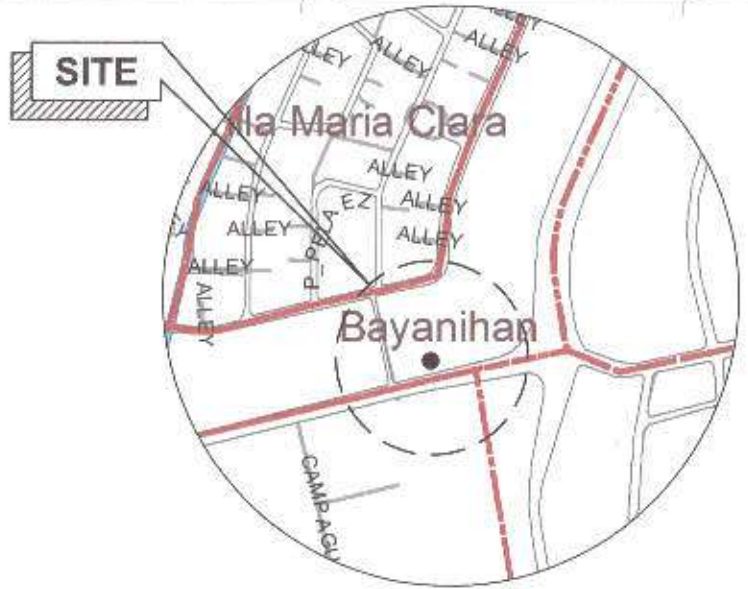
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

SHEET CONTENT

GENERAL NOTES  
LEGENDS  
PIPE CONNECTION DETAIL  
LIGHTING AND POWER LAYOUT

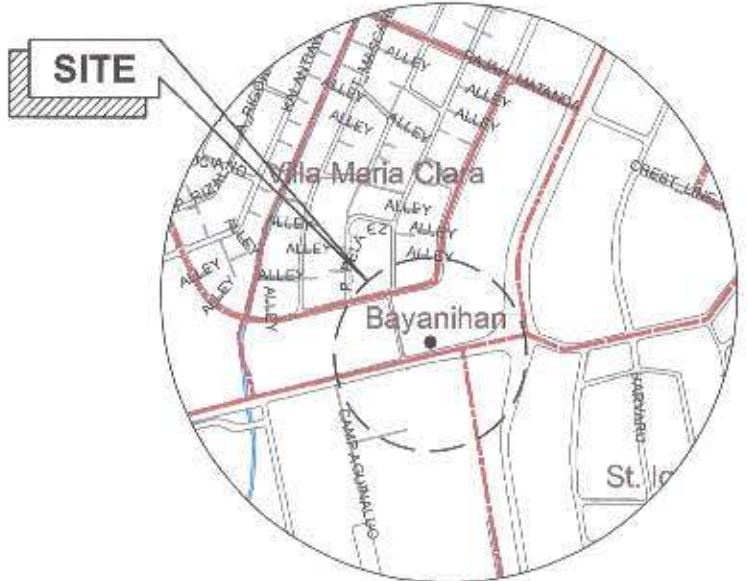
SHEET NO.

**EL-01**  
**08/08**



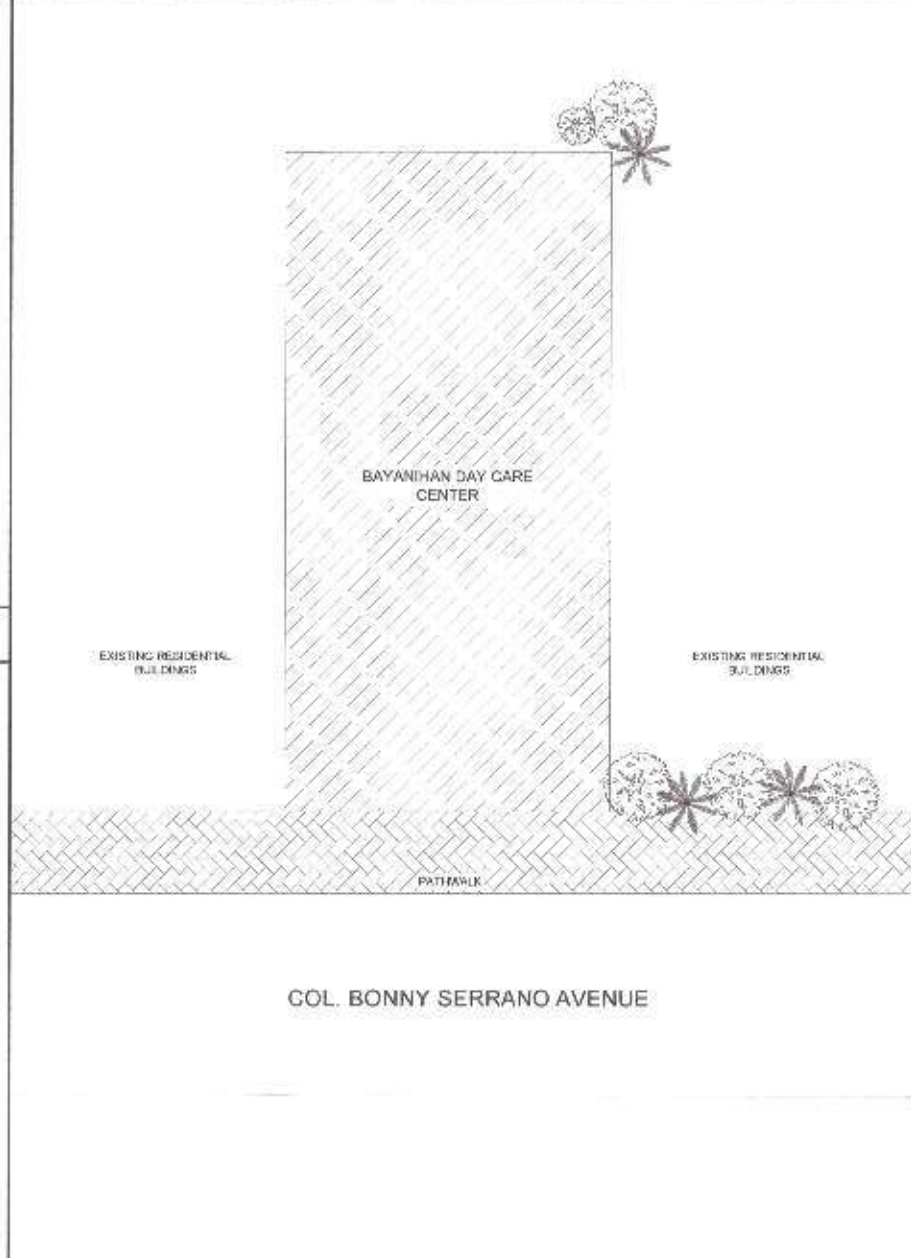
1 LOCATION MAP

SCALE: NTS



2 VICINITY MAP

SCALE: NTS



3 SITE DEVELOPMENT PLAN

SCALE: 1:100M

TABLE OF CONTENTS

ARCHITECTURAL

AR-1	LOCATION MAP VICINITY MAP SITE DEVELOPMENT PLAN
AR-2	GROUND FLOOR PLAN REFLECTED CEILING PLAN
AR-3	FRONT ELEVATION REAR ELEVATION RIGHT SIDE ELEVATION LEFT ELEVATION SECTION THRU 'A' SECTION THRU 'B'
AR-4	STANDARD COUNTERTOP DETAILS HANGING CABINET DETAILS SCHEDULE OF DOOR

SANITARY / PLUMBING

PL-1	GENERAL NOTES LEGENDS AND SYMBOLS PLUMBING LAYOUT
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Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER**

LOCATION:  
BRGY. BAYANIHAN, DISTRICT 2, QUEZON CITY

DRAWN BY: *[Signature]*  
DATE: 8.28.2021  
CHECKED BY: *[Signature]*  
REVISION NO.:

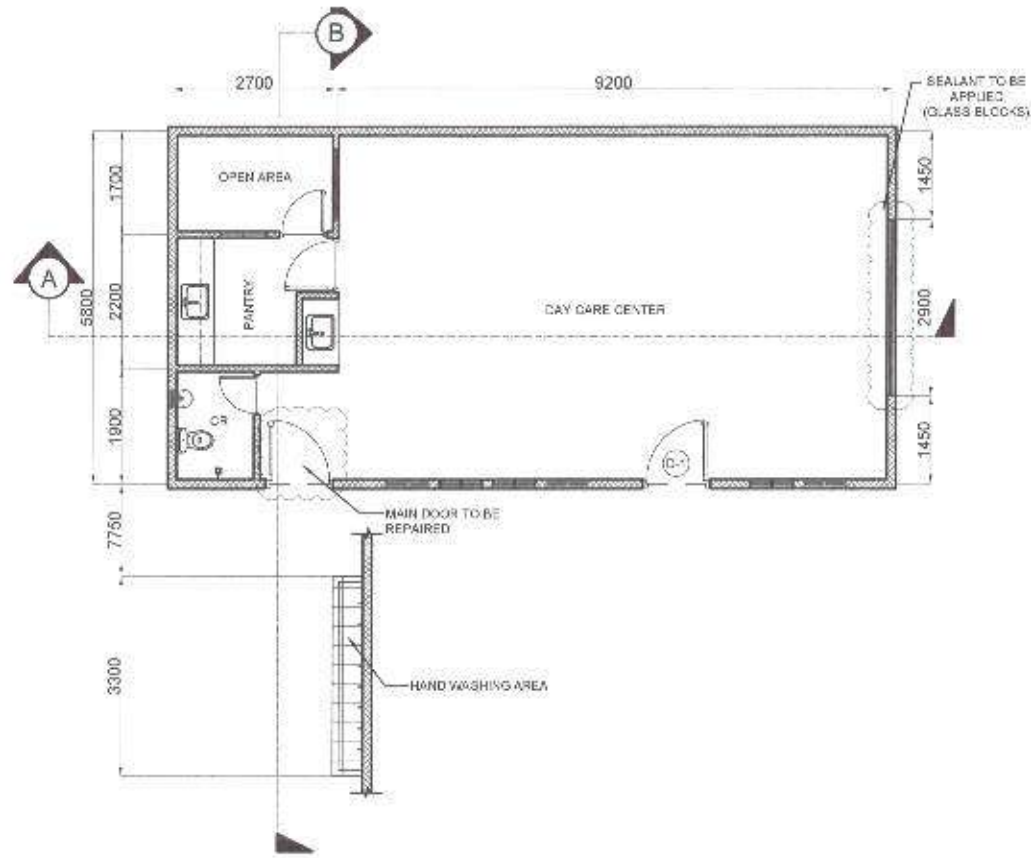
SUBMITTED BY:  
*[Signature]*  
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & FOOTING DIVISION

RECOMMENDING APPROVAL:  
*[Signature]*  
ENGR. ISAGANI R. VERZOSA, JR.  
CH. CIVIL ENGINEERING DIVISION

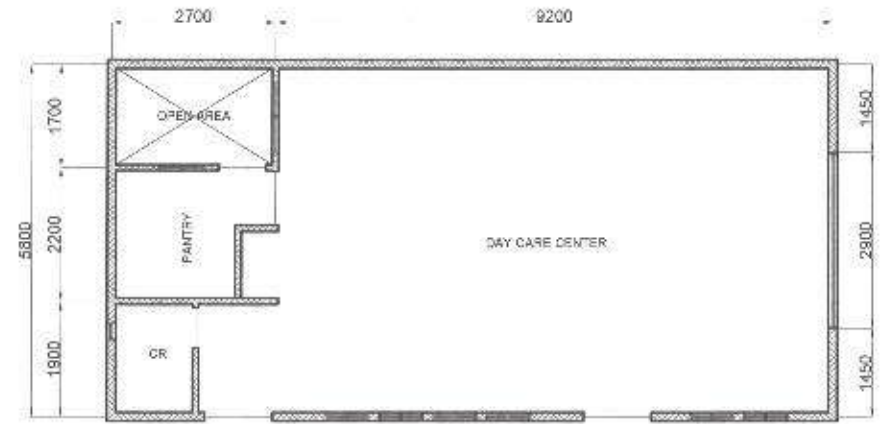
APPROVED BY:  
*[Signature]*  
HON. MA. JOSEFINA G. BELMONTE  
CITY MAYOR, QUEZON CITY

SHEET CONTENT:  
VICINITY MAP  
LOCATION MAP  
SITE DEVELOPMENT PLAN

SHEET NO.:  
**AR-1**  
**01 05**



- NOTE:
- INTERIOR WALLS TO BE REPAINTED
  - TERMITE PEST CONTROL TO BE APPLIED
  - HAND WASHING FAUCET TO BE REPLACED



- NOTE:
- CEILING TO BE REPAINTED

**1 FLOOR PLAN**

SCALE: 1:30M.

**2 REFLECTED CEILING PLAN**

SCALE: 1:30M.



Republika ng Pilipinas  
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**CITY ENGINEERING DEPARTMENT**

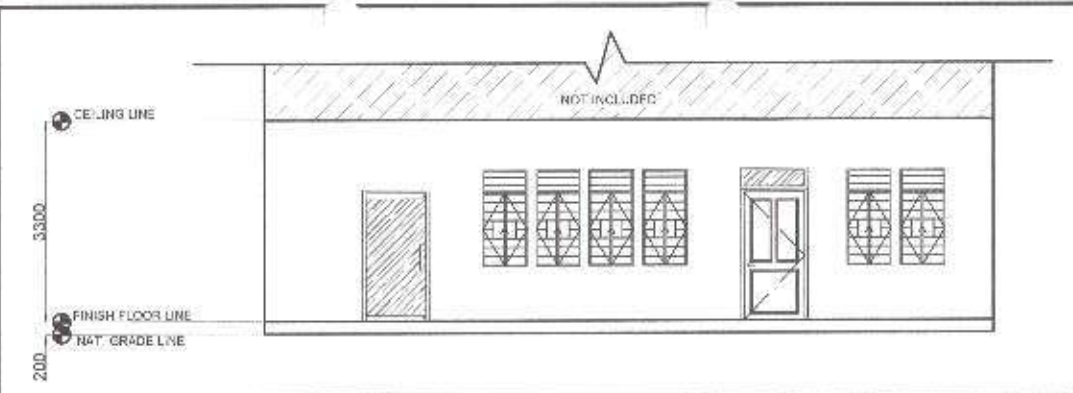
PROJECT TITLE	DESIGNED BY: <i>[Signature]</i>
<b>PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER</b>	DATE: 8/28/21
	CHECKED BY: JAR
LOCATION: 6955 BAYANHAN, DISTRICT 1, QUEZON CITY	REVISION NO.:

SUBMITTED BY:
<i>[Signature]</i>
ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & FLOR DRAWING DIVISION

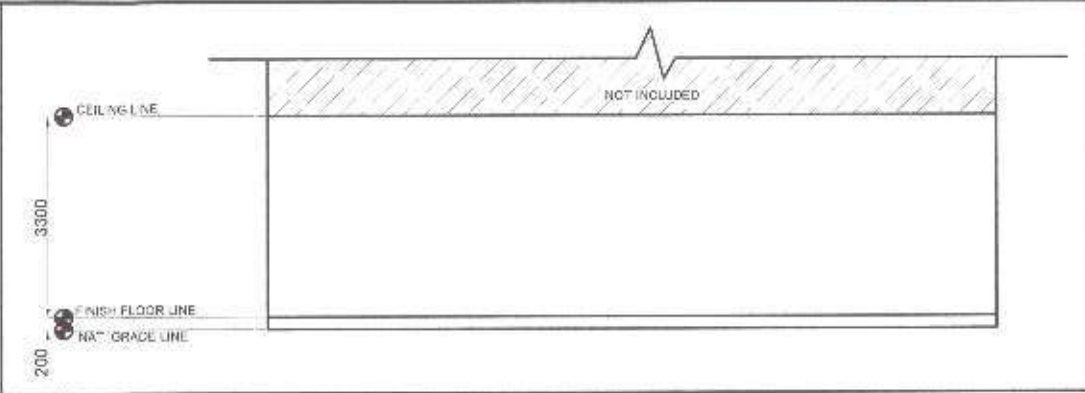
RECOMMENDING APPROVAL:
<i>[Signature]</i>
ENGR. SAGANI R. VERZOSA, JR. D.D., CITY ENGINEERING DEPARTMENT

APPROVED BY:
<i>[Signature]</i>
HON. MA. JOSEFINA G. BELMONTE CITY MAYOR - QUEZON CITY

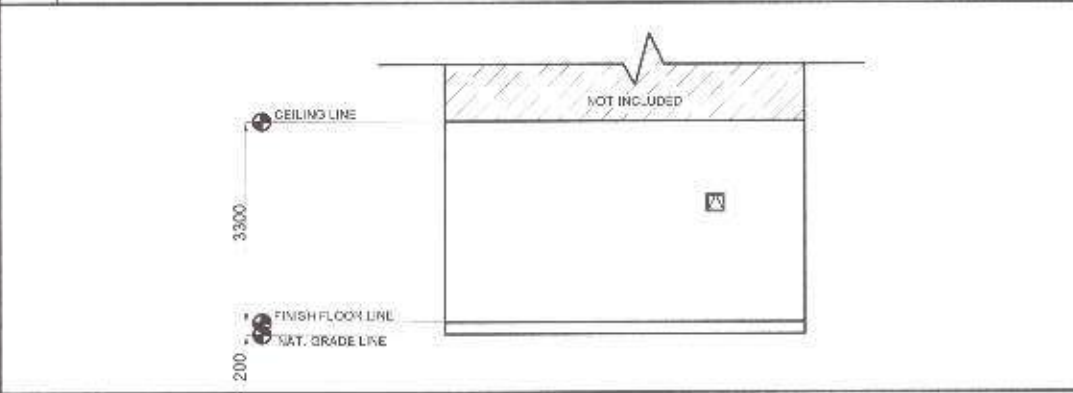
SHEET CONTENT	SHEET NO.
FLOOR PLAN REFLECTED CEILING PLAN	<b>AR-2</b> <b>02 05</b>



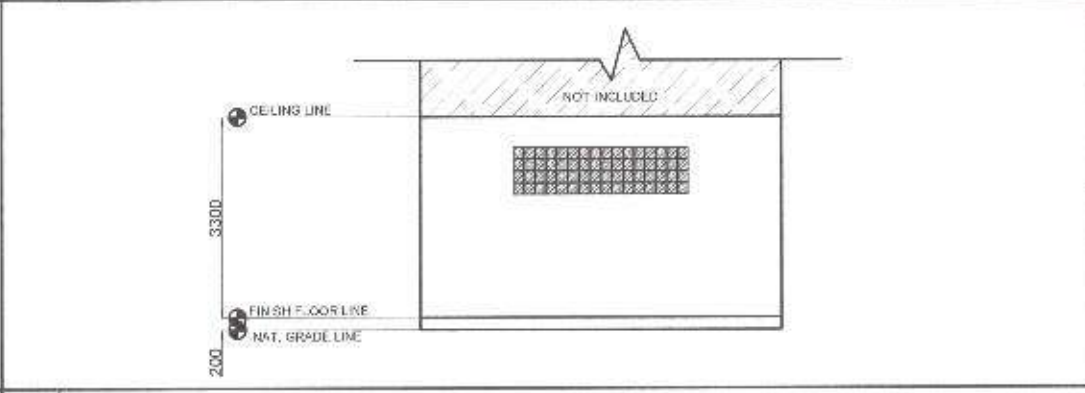
**1 FRONT ELEVATION** SCALE: 1:90M.



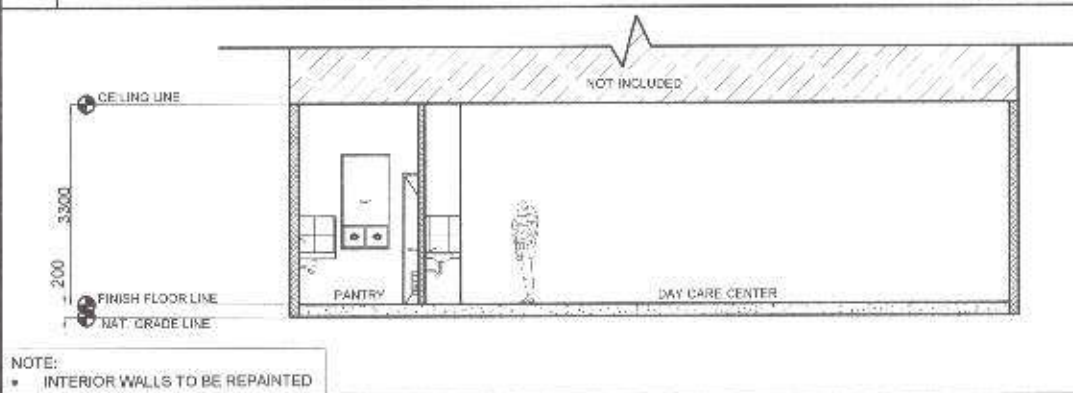
**2 REAR ELEVATION** SCALE: 1:90M.



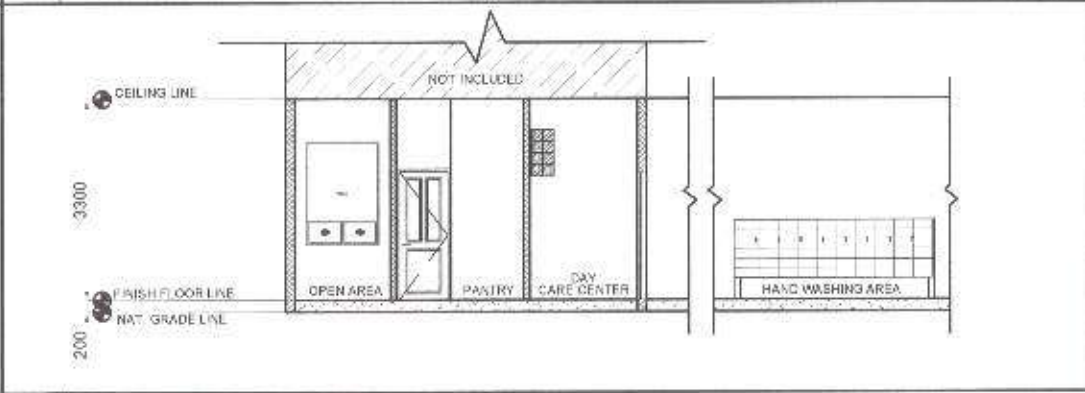
**3 RIGHT SIDE ELEVATION** SCALE: 1:90M.



**4 LEFT SIDE ELEVATION** SCALE: 1:90M.




**5 SECTION THRU "A"** SCALE: 1:90M.

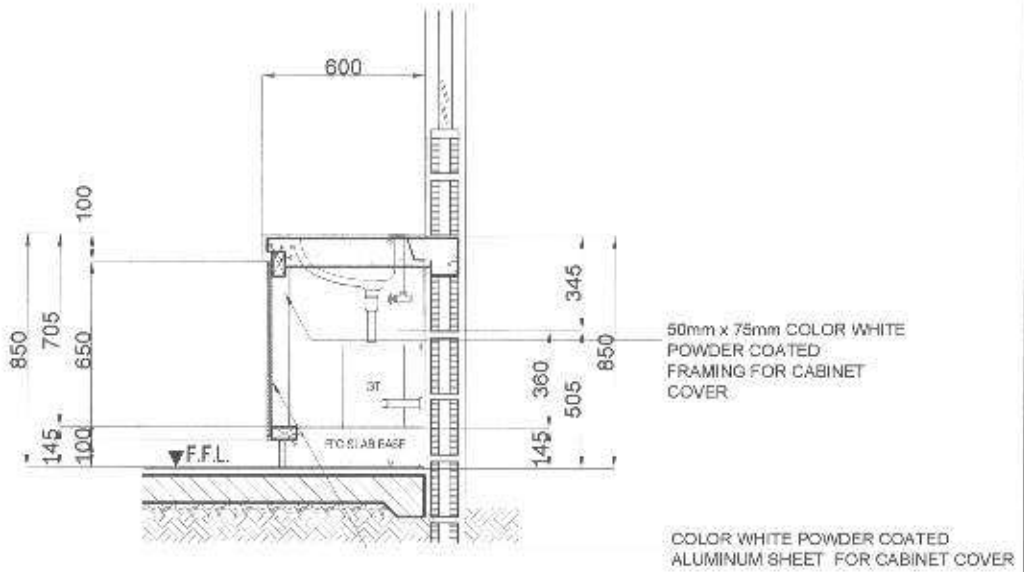


**6 SECTION THRU "B"** SCALE: 1:90M.

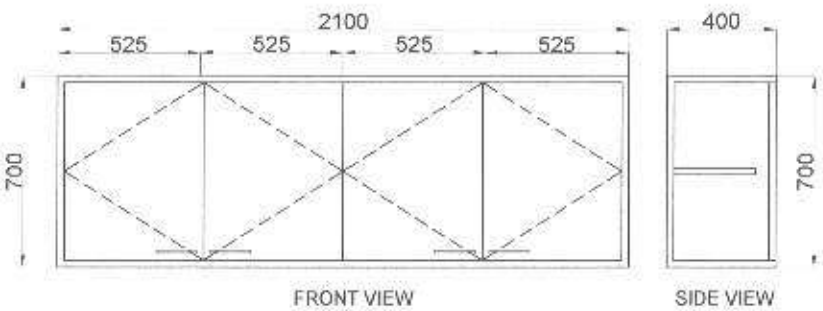
NOTE:  
 • INTERIOR WALLS TO BE REPAINTED

 <p>Republika ng Pilipinas                  Lungsod ng Quezon  <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>GF</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	<b>PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER</b>	DATE: 6/20/2021	<i>[Signature]</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. SAGANI R. VERZOSA, JR. CIG, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, CULIANG CITY	FRONT ELEVATION REAR ELEVATION RIGHT SIDE ELEVATION LEFT SIDE ELEVATION SECTION THRU "A" SECTION THRU "B"
	LOCATION: BRGY. BAYANIHAN, DISTRICT 3, QUEZON CITY	CHECKED BY: <i>[Signature]</i>	REVISION NO.:				





**1 STANDARD COUNTERTOP DETAILS** SCALE: 1:20M.



**PROP HANGING CABINET**  
18mm THK MARINE PLYWOOD  
PAINTED FINISH  
w/ LOCKING MECHANISM



	D-1
LOCATION	FRONT DOOR
SPECIFICATIONS	WOODEN PANEL DOOR WITH TRANSOM
HARDWARE / GLAZING	COMPLETE ACCESSORIES
NO. OF SETS	1

**2 HANGING CABINET DETAILS** SCALE: 1:20M.

**3 SCHEDULE OF DOOR** SCALE: 1:30M.



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER
DATE:	02/23/2021
CHECKED BY:	JAN
LOCATION:	BRGY. BAYANIHAN, DISTRICT 3, QUEZON CITY

DRAWN BY:	[Signature]
REVISIONS:	

SUBMITTED BY:	[Signature]
ENGR. LEO S. DEL ROSARIO	HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:	[Signature]
ENGR. ISMAEL R. VERZOSA, JR.	CH. CITY ENGINEERING DEPARTMENT

APPROVED BY:	[Signature]
HON. MA. JOSEFINA G. BELMONTE	CITY MAYOR, QUEZON CITY

REVISIONS:	
STANDARD COUNTERTOP DETAILS HANGING CABINET DETAILS SCHEDULE OF DOOR	

SHEET NO.	AR-4 04/05
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1. ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, RULES AND REGULATIONS OF QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED. THE ENGR./ARCH. SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHLORINE OR HYDROCHLORIDE SOLUTION.
9. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1-1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
10. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 3.0 MTS. HEAD TO ENSURE THAT THE SYSTEM ARE WATER TIGHT.
11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
12. ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.

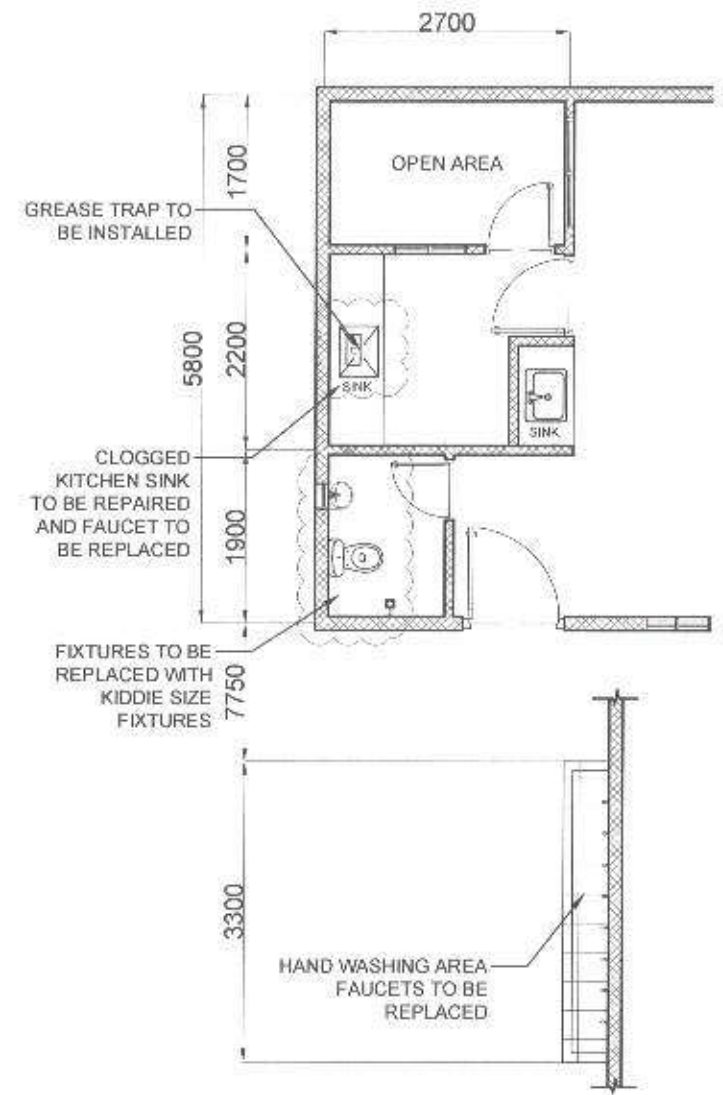
**1 GENERAL NOTES**

**I. SEWER/WASTE AND VENT SYSTEM:**

- SP/WP - SOIL PIPE / WASTE PFE
- VP/VAC - VENT PIPE / VENT AT CEILING
- DP - STORM DRAIN PIPE
- FCC/GCO - FLOOR CLEANOUT / GROUND CLEANOUT
- CCO - CEILING CLEAN OUT
- DS - DRAINAGE STACK / DOWNSPOUT
- VSTR - VENT STACK/EXTENDED THROUGH ROOF
- SS - SOIL STACK
- FD - FLOOR DRAIN
- CB - CATCH BASIN
- AD - AREA DRAIN
- STALL TYPE URINAL
- GT - GREASE TRAP

**II. WATER DISTRIBUTION SYSTEM:**

- CWL - COLD WATER LINE
- CWR - COLD WATER RISER
- GV - GATE VALVE
- CV - CHECK VALVE
- WM - WATER METER
- BC - BALCONY DRAIN

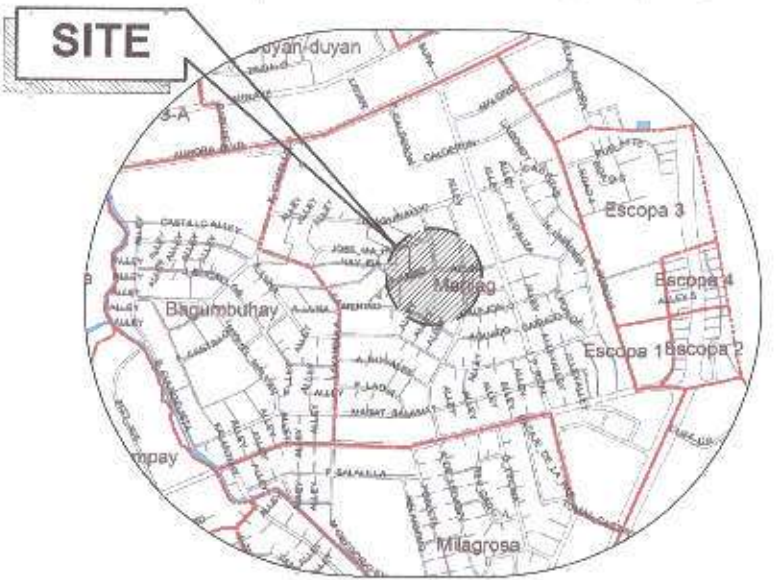


**2 LEGENDS AND SYMBOLS**

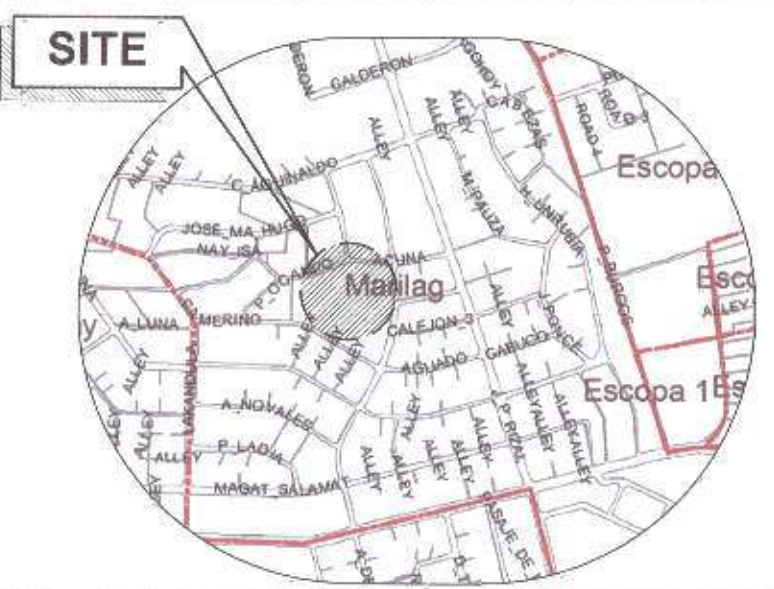
**3 PLUMBING LAYOUT**

SCALE: 1:80M.

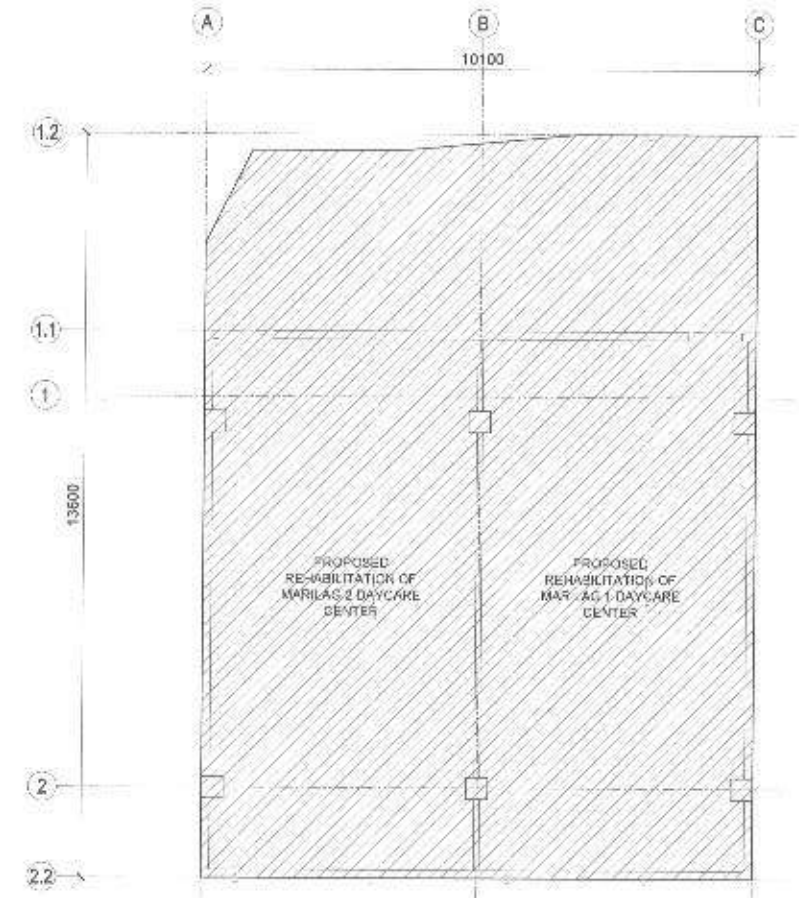
<p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER	DATE: 8.25.2021				GENERAL NOTES, LEGENDS AND SYMBOLS, PLUMBING LAYOUT.	PL-1
	LOCATION: BRGY. BAYANIHAN, DISTRICT 3, QUEZON CITY	REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLUMBING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. CE, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	05.05	



**1 VICINITY MAP** SCALE: NTS



**2 LOCATION PLAN** SCALE: NTS



**3 SITE DEVELOPMENT PLAN** SCALE: NTS

**TABLE OF CONTENTS**

ARCHITECTURAL	
AR-01	LOCATION PLAN VICINITY MAP SITE DEVELOPMENT PLAN
AR-02	EXISTING GROUND FLOOR PLAN PROPOSED GROUND FLOOR PLAN
AR-03	ROOF PLAN REFLECTED CEILING PLAN
AR-04	DOORS AND WINDOWS SCHEDULE
STRUCTURAL	
ST-01	GENERAL NOTES FOUNDATION PLAN ROOF FRAMING PERIMETER FENCE DETAIL
ST-02	PERIMETER FENCE ELEVATION STEEL GRATING DETAILS
ST-03	TRUSS CONNECTION AND DETAILS
PLUMBING	
PL-01	GENERAL NOTES LEGENDS AND SYMBOLS GROUND FLOOR PLUMBING LAYOUT
ELECTRICAL	
EL-01	GENERAL NOTES LEGENDS AND SYMBOLS MISCELLANEOUS DETAILS
EL-02	LIGHTING LAYOUT



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF MARILAG 1 & 2 DAYCARE CENTER**

LOCATION:  
BARANGAY MARILAG DISTRICT 1 QUEZON CITY

DRAWN BY: *S. S.*  
DATE: SEPT 29, 2018  
CHECKED BY: *J.A.*  
REVISION NO.: 2

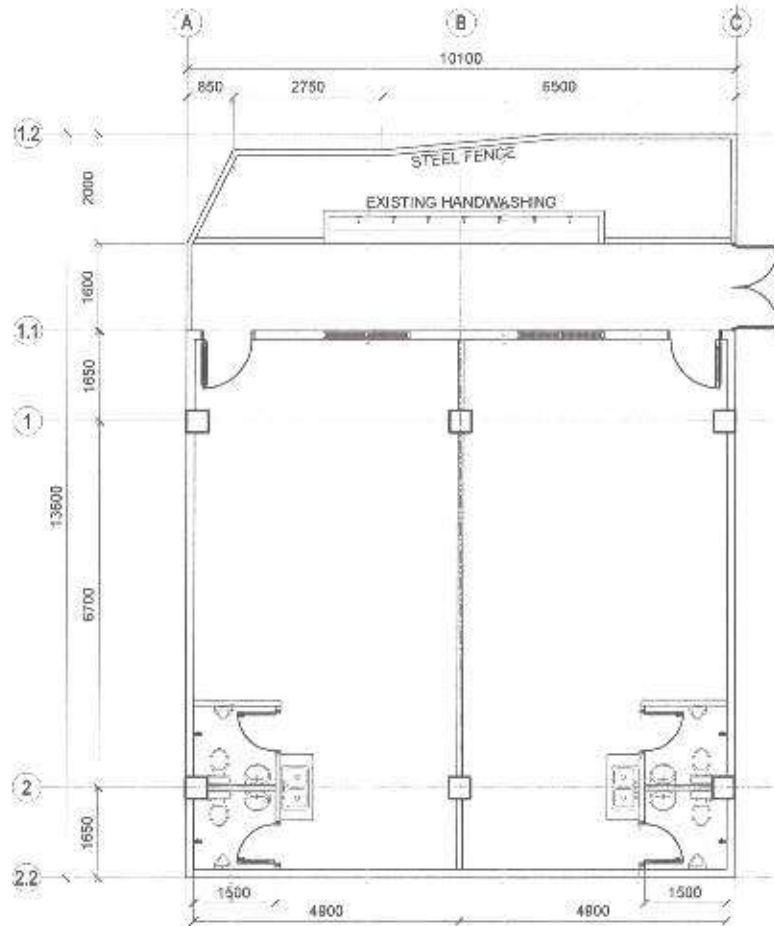
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*[Signature]*  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
*[Signature]*  
**ENGR. ISABERN R. VERZOSA, JR.**  
CIC, CITY ENGINEERING DEPARTMENT

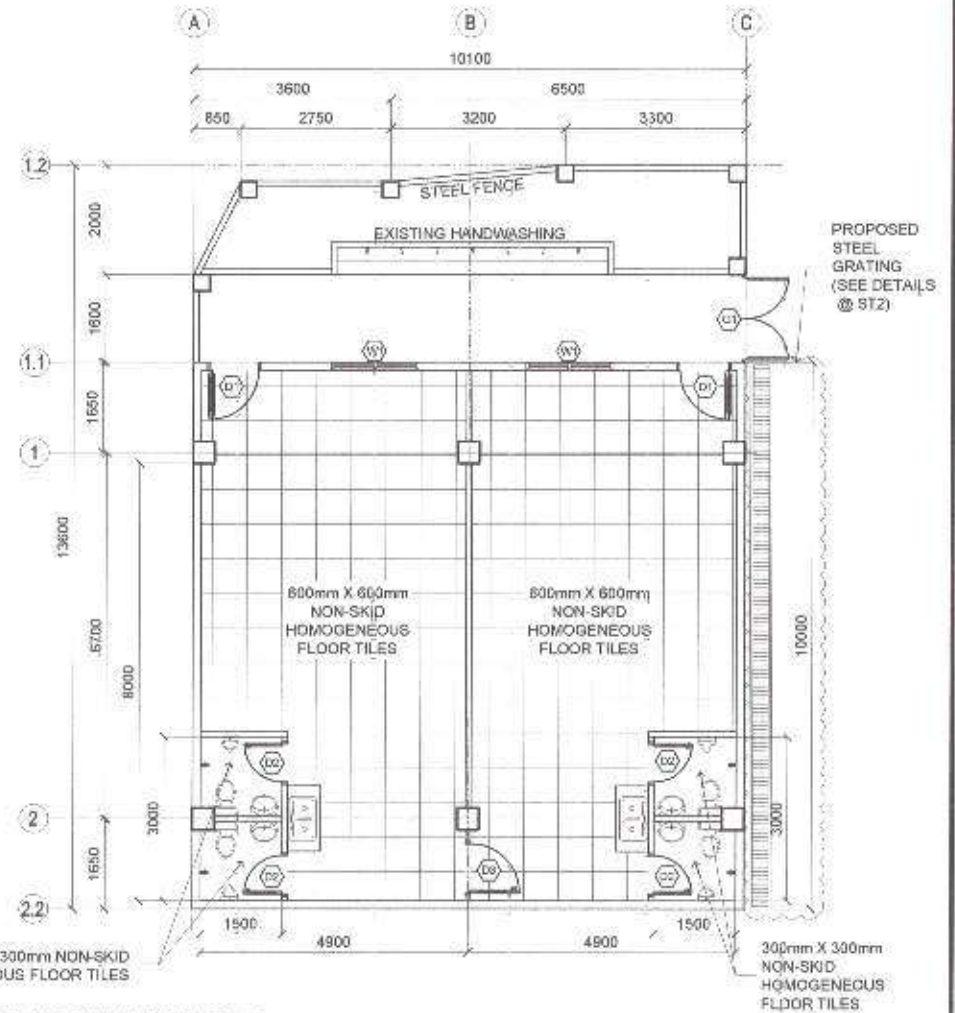
APPROVED BY:  
*[Signature]*  
**HON. MA. JOSEFINA O. BELMONTE**  
CITY MAYOR, QUEZON CITY

SHEET CONTENT:  
VICINITY MAP  
LOCATION PLAN  
PERSPECTIVE

SHEET NO.  
**AR-01**  
**01 10**



NOTE:  
 - FLOOR TILES TO BE REMOVED.  
 - DOORS TO BE REMOVED  
 - PERIMETER FENCE TO BE REMOVED  
 - COMFORT ROOM WALL TILES TO BE REMOVED



NOTE:  
 - INTERIOR AND EXTERIOR WALL TO BE REPAINTED.  
 - DOORS TO BE REPLACED  
 - FLOOR TILES TO BE REPLACED  
 - COMFORT ROOM WALL TILES TO BE REPLACED

**1 EXISTING GROUND FLOOR PLAN**

SCALE: 1:100M

**2 PROPOSED GROUND FLOOR PLAN**

SCALE: 1:M



Republika ng Pilipinas  
 Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF  
 MARILAG 1 & 2 DAYCARE  
 CENTER**

LOCATION:  
 BARANGAY MARILAG DISTRICT 3, QUEZON CITY

DRAWN BY:  
 SK/SEN  
 DATE: SEPT 05, 2021  
 CHECKED BY: JAW  
 REVISION NO.: 2

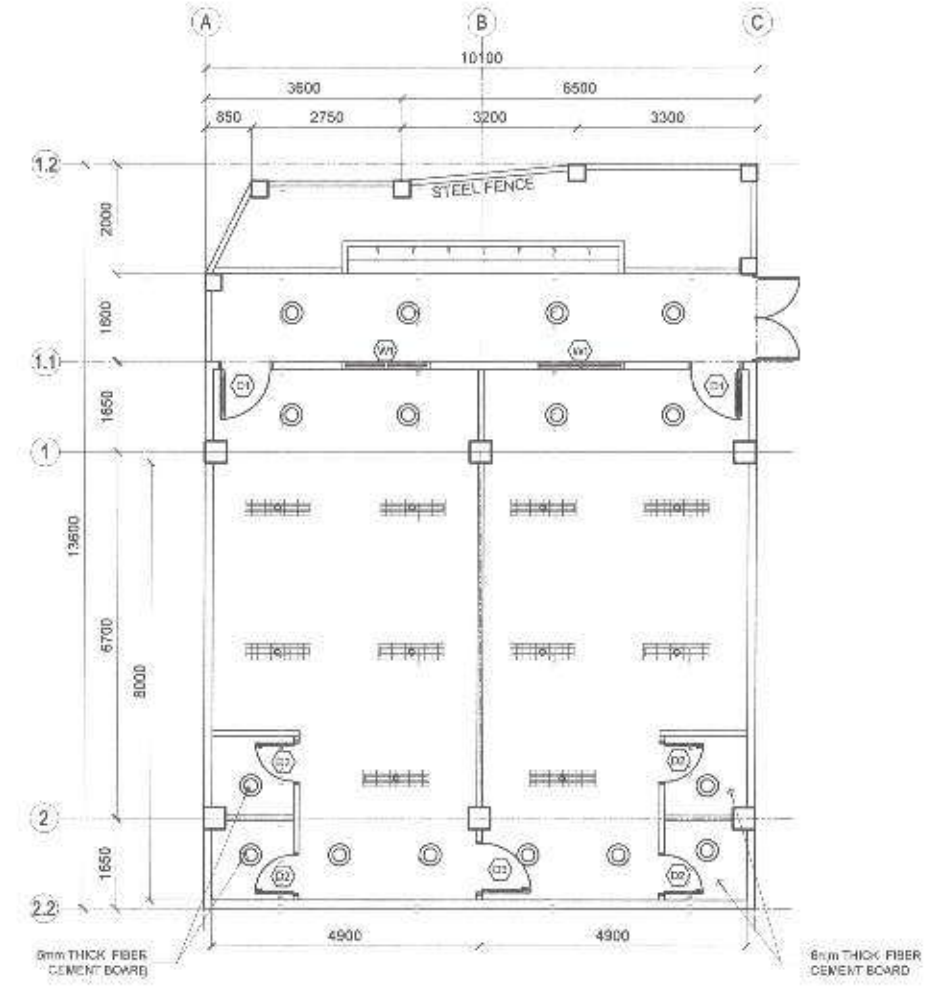
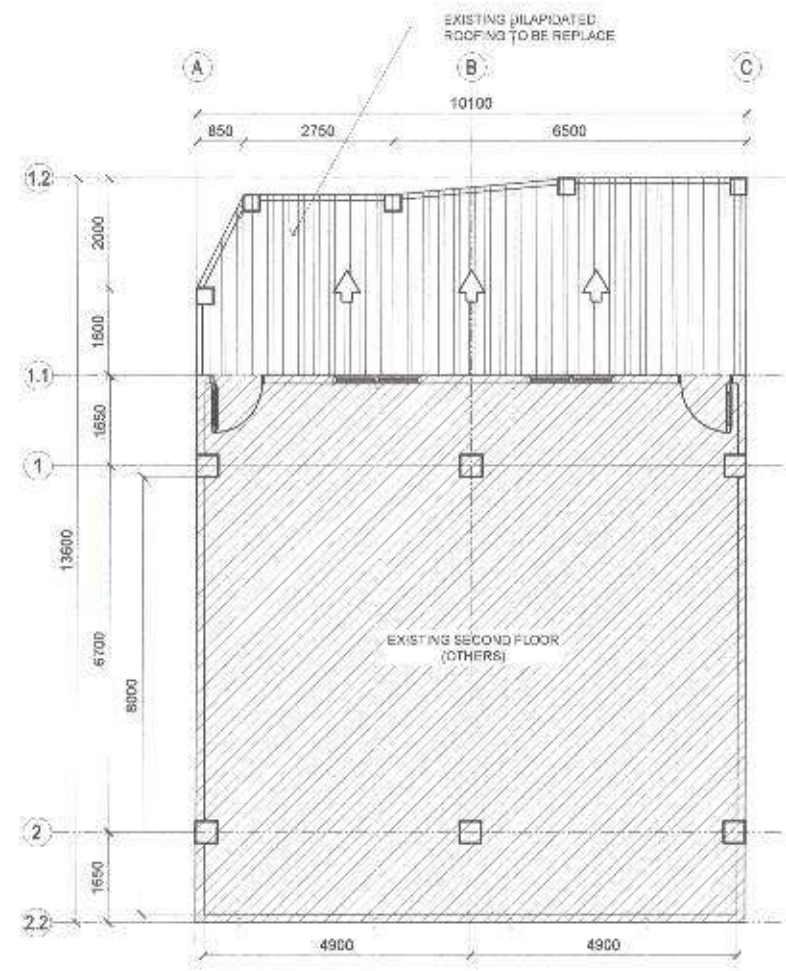
SUBMITTED BY:  
  
**ENGR. LEO S. DEL ROSARIO**  
 HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
  
**ENGR. SAGANI R. VERZOSA, JR.**  
 C.D. CITY ENGINEERING DEPARTMENT

APPROVED BY:  
  
**HON. MA. JOSEFINA G. BELMONTE**  
 CITY MAYOR, QUEZON CITY

SHEET CONTENT:  
 EXISTING GROUND  
 FLOOR PLAN  
 PROPOSED GROUND  
 FLOOR PLAN

SHEET NO.  
  
**AR-02**  
**02/10**



**1 ROOF PLAN / SECOND FLOOR**

SCALE: 1:100M

**2 REFLECTED CEILING PLAN**

SCALE: 1:100M



Republika ng Pilipinas  
Lungsod ng Quason  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF  
MARILAG 1 & 2 DAYCARE  
CENTER**

LOCATION:  
BARANGAY MARILAG DISTRICT 3, QUEZON CITY

DRAWN BY:  
EMERSON  
DATE: SEPT 04, 2021  
CHECKED BY: [Signature]  
REVISION NO.: 2

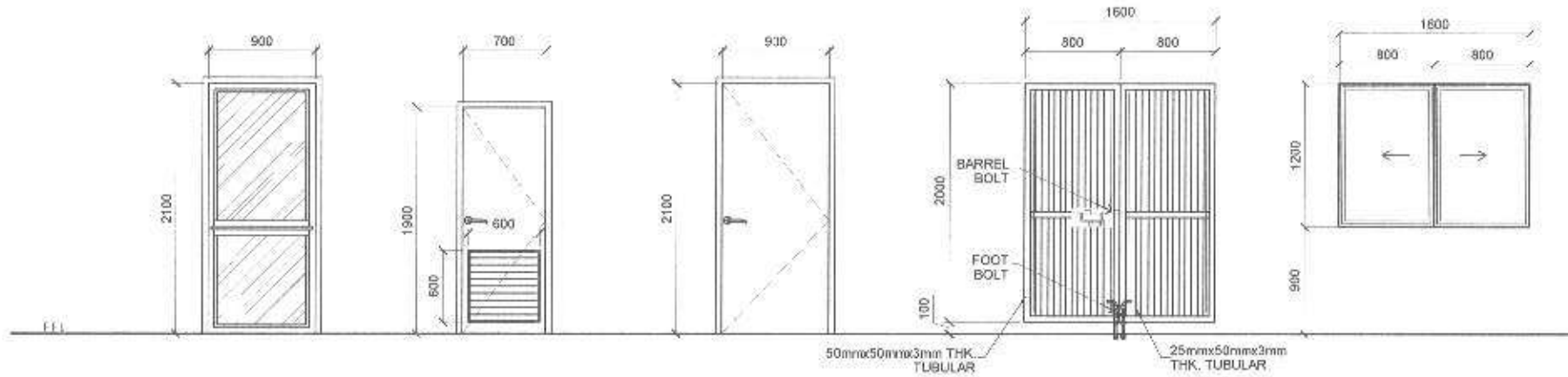
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[Signature]  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
[Signature]  
**ENGR. ISAGANI R. VERZOSA, JR.**  
D.D., CITY ENGINEERING DEPARTMENT

APPROVED BY:  
[Signature]  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR, QUEZON CITY

SHEET CONTENT:  
ROOF PLAN  
REFLECTED CEILING  
PLAN

SHEET NO.  
**AR-03  
03/10**



NAME	D1	D2	D3	G	W1
NO. OF SETS	2	4	1	1	2
DESCRIPTION	TEMPERED GLASS DOOR ON FINISH ALUMINUM FRAME	PVC FLUSH DOOR W/ LOUVER	PANEL DOOR	ENTRANCE GATE	ALUMINUM FRAME POWDER COATED SLIDING WINDOW / GRILLES WITH 6mm THK CLEAR GLASS
LOCATION	ENTRANCE	TOILET			GROUND FLOOR

**1 | DOORS AND WINDOWS SCHEDULE**

SCALE: 1:50M



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Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF MARILAG 1 & 2 DAYCARE CENTER**

LOCATION:  
BAYANG MARILAG DISTRICT 3 QUEZON CITY

DRAWN BY:  
EMP/8

DATE: SEPT. 03, 2021

CHECKED BY: [Signature]

REVISION NO.: 2

SUBMITTED BY:  
[Signature]

**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
[Signature]

**ENGR. ISAGANI R. VERZOSA, JR.**  
D/C, CITY ENGINEERING DEPARTMENT

APPROVED BY:  
[Signature]

**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR, QUEZON CITY

SHEET CONTENT:  
DOORS AND WINDOWS SCHEDULE

SHEET NO.:  
**AR-04**  
**04/10**

**GENERAL NOTES:**

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI 318).
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF WORK (EIGHT (8) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS:

LOCATION	STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
SLAB ON GRADE CURB PANELS & WALL FOOTING	200 PSI (13.8 MPa)	1 1/2" (38mm)	4 in. (100mm)
BEAMS ON TOP OF FOOTING SUBFLOOR SLAB	300 PSI (20.68 MPa)	2" (51.18mm)	4 in. (100mm)

3. ALL REINFORCING BARS SHALL CONFORM TO MESH GRADE 215 FOR 12mm AND MESH GRADE 415 FOR 16mm AND LARGER BARS.
4. CONCRETE SHALL BE TESTED FOR CURE AND STRENGTH BY THE METHOD OF STANDARD PRACTICE OF DETAILS AND TESTING AND CONCRETE SURFACE SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

LOCATION	CONC. BUILDUP COVER
CONCRETE DEPOSITED DIRECTLY AGAINST GROUND	25mm
SURFACED SLAB	25mm
SLAB ON GRADE	40mm
WALLS ABOVE GRADE	25mm
BEAMS & COLUMNS	40mm

6. SPINDERS SHALL BE SECURELY WEDGED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 17.4.1.1 (1) OF LATEST BUILDING CODE UNLESS OTHERWISE SHOWN OR NOTED. SPINDERS SHALL BE SECURED WHENEVER POSSIBLE.
7. ALL ANCHOR BOLTS, DOWNERS AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILL RESTS, EQUIPMENT'S AND MECHANICAL BASES.
9. ALL CONCRETE SHALL BE CURED TO 50% OF DESIGN STRENGTH IN 7 DAYS THROUGHOUT THE CURE PERIOD BY THE USE OF NET CURING FOR SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
10. STRIPPING OF FORMS AND SPOKES:

FOUNDATION	7-14 DAYS
SURFACED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS

11. DEVELOPMENT LENGTH (L<sub>d</sub>) FOR ALL BARS SHALL BE A MINIMUM OF 30 BAR DIAMETER UNLESS OTHERWISE NOTED BY SPECIAL STEEL AND PLATE.
12. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 SPECIFICATIONS WITH MINIMUM YIELD STRENGTH (F<sub>y</sub>) OF 360 MPa.
13. ANCHOR & FASTENER BOLTS, ALL BOLTS SHALL CONFORM TO ASTM A307 SPECIFICATIONS.
14. WELDING RODS, ALL WELDING RODS SHALL BE WELDABLE, BUT NOT LOW HYDROGEN TYPE WITH MINIMUM YIELD STRENGTH OF 420 MPa.

**FOUNDATION PLAN**

1. FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AXIAL LOADS AND SOIL BEARING CAPACITY OF 240 kPa.
2. FOUNDATION SHALL REST ON NATURAL SOIL UNLESS OTHERWISE NOTED BY THE BAKER NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. THE FOUNDATION SHALL VERIFY THE ENGINEERING CONSULTATION OF FOUNDATION ENGINEER FOR AXIAL SOIL CONDITIONS WHICH DO NOT CONFORM TO THE SOIL BEARING CAPACITY FOR PROPER DESIGN.

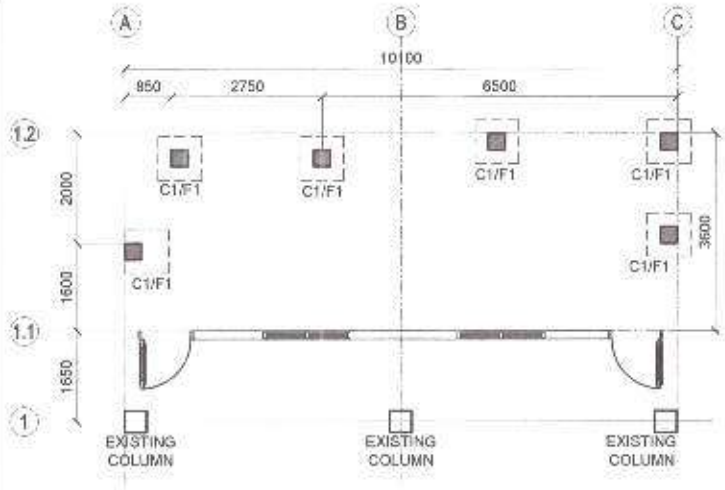
**NOTES ON MASONRY WALLS**

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARD & SPECIFICATIONS OF THE STRUCTURAL CODE OF THE PHILIPPINES & UNIFORM BUILDING CODE.
2. MORTAR & GROUT FOR ALL CONCRETE MASONRY SHALL CONFORM TO ASTM 210 TYPE II & SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH BEFORE CONCRETE COMPRESSION STRENGTH OF 17 MPa (2400 PSI).
3. ALL CHASES SHALL BE Laid OUT WITH CELLS IN UNIFORM SPACING TO AVOID CONCENTRICITY.
4. ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLED WITH PORTLAND REINFORCED AS TABULATED BY DRAWING. ALL REINFORCEMENT SHALL BE PLACED WITH PORTLAND REINFORCEMENT AS TABULATED BY DRAWING. ALL REINFORCEMENT SHALL BE PLACED WITH PORTLAND REINFORCEMENT AS TABULATED BY DRAWING.
5. ALL MASONRY WALLS SHALL BE PROTECTED WITH FIBERGLASS BLOCK & STIFFENERS AS REQUIRED.
6. FOR HIGH WALLS, STIFFENERS & COLUMNS SHALL BE 200mm ON CENTER.
7. FOR DOORS AND WINDOWS, STIFFENERS SHALL BE 200mm ON CENTER.
8. UNLESS OTHERWISE NOTED IN PLANS, ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS REINFORCEMENT AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT.

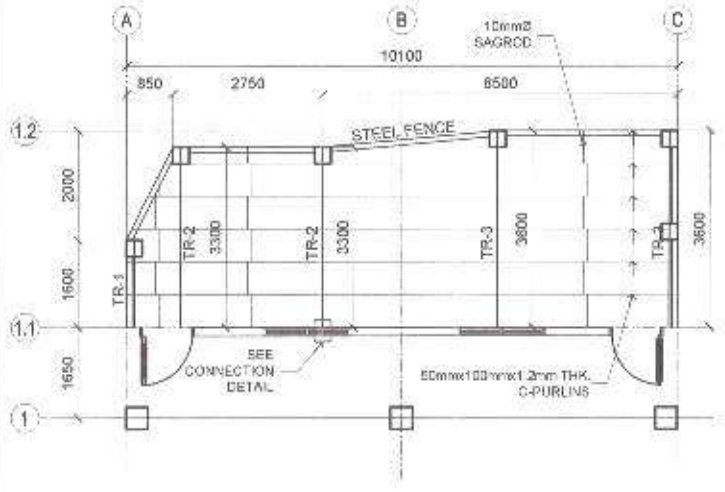
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT			
BLOCK	REINFORCEMENT	NOTES	
HORIZONTAL	HORIZONTAL	VERTICAL	
100mm	10mm @ 600mm O.C.	10mm @ 600mm O.C.	A. MINIMUM LAP SHALL BE 400mm B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS & JOINTS
150mm	10mm @ 600mm O.C.	10mm @ 600mm O.C.	C. WHERE CORNERS OR JOINTS ARE NOT PROVIDED, ALL CORNERS & JOINTS SHALL BE PROVIDED WITH VERT. OR HORIZ. REINFORCEMENT. ALL CORNERS & JOINTS SHALL BE PROVIDED WITH VERT. OR HORIZ. REINFORCEMENT.

**TESTING & COMMISSIONING WORKS:**

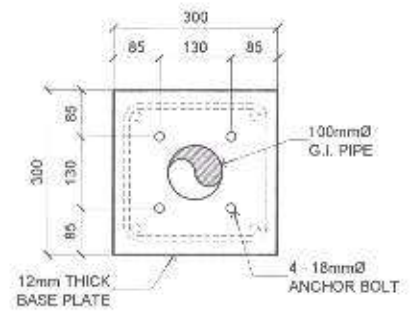
1. ALL NECESSARY TESTING OF MATERIALS AND CONCRETE OR WORKS MUST BE PERFORMED AS PER STANDARD PROCEDURE.



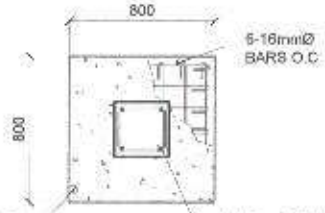
**2 FOUNDATION PLAN** SCALE: 1:100M



**3 ROOF FRAMING PLAN** SCALE: 1:100M

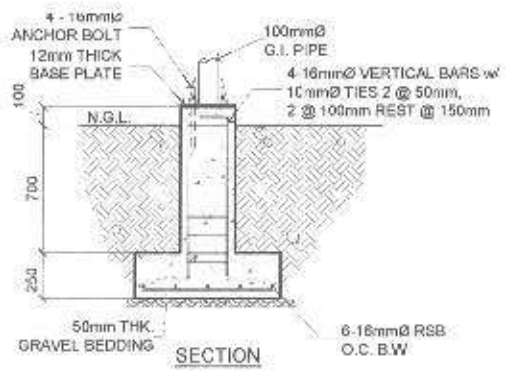


**PEDESTAL DETAIL**



**PLAN**

6-16mmØ BARS O.C. 4-16mmØ VERTICAL BARS w/ 12mmØ TIES 2 @ 0.05, 2 @ 100mm REST @ 150mm



**SECTION**

50mm THK. GRAVEL BEDDING 6-16mmØ RSB O.C. B.W.

**4 COLUMN FOOTING DETAILS** SCALE: 1:30M

**1 GENERAL NOTES** SCALE: NTS

Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF MARILAG 1 & 2 DAYCARE CENTER**

LOCATION:  
BARANGAY MARILAG DISTRICT 3, QUEZON CITY

DRAWN BY:  
DATE: SEPT 02, 2021  
CHECKED BY:  
REVISION NO. 2

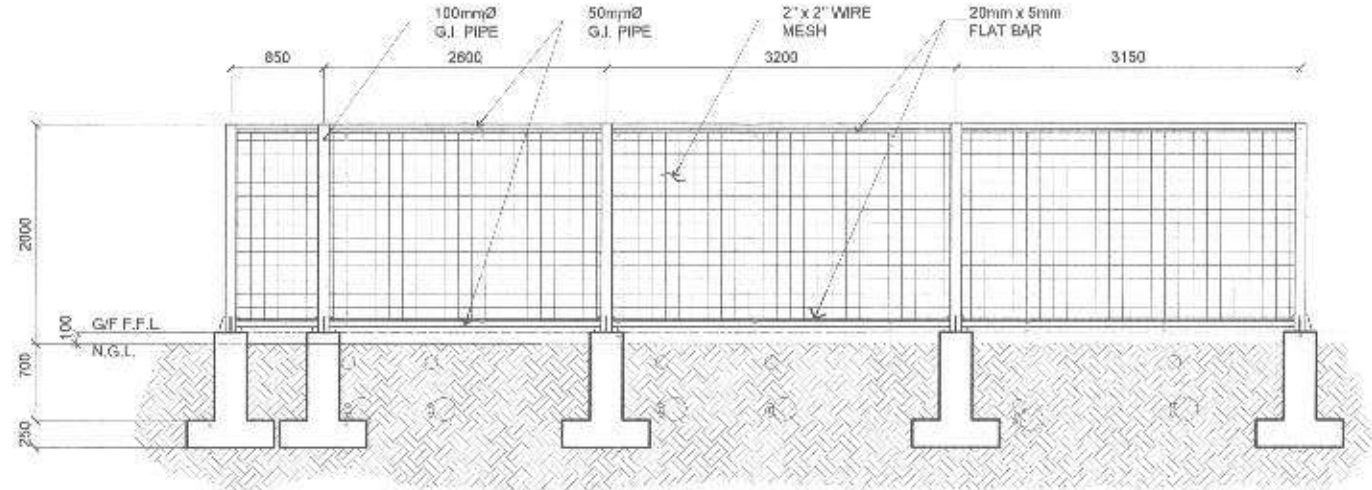
SUBMITTED BY:  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
**ENGR. ISAGANI R. VERZOSA, JR.**  
C.E., CITY ENGINEERING DEPARTMENT

APPROVED BY:  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR, QUEZON CITY

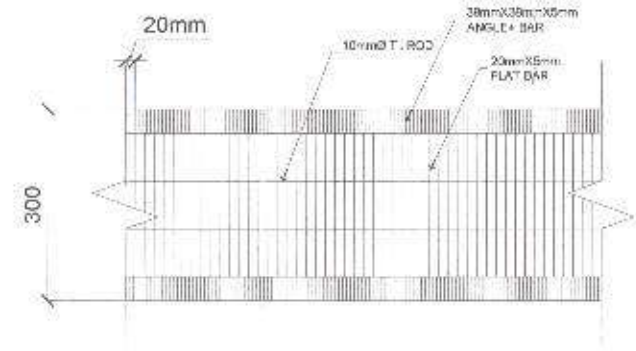
SHEET CONTENT:  
GENERAL NOTES  
FOUNDATION PLAN  
ROOF FRAMING  
PERIMETER FENCE  
DETAIL

SHEET NO.  
**ST-01**  
**05/10**

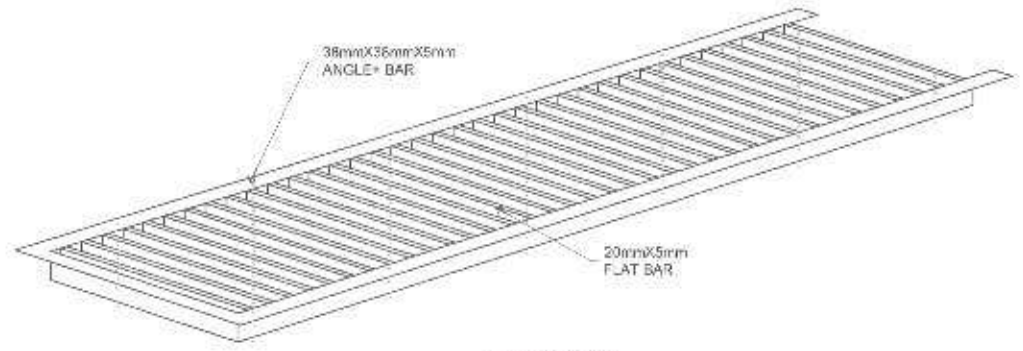


**1 PERIMETER FENCE ELEVATION**

SCALE: 1:50M





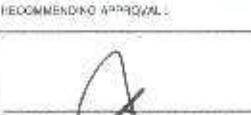

PLAN



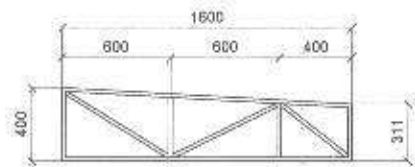
SECTION

**2 STEEL GRATING DETAILS**

SCALE: NTS

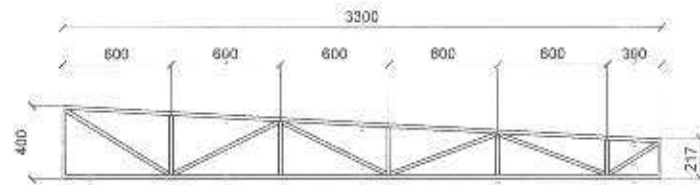
 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE	DRAWN BY EMERSON	SUBMITTED BY	RECOMMENDING APPROVAL	APPROVED BY	SHEET CONTENT	SHEET NO.
	<b>PROPOSED REHABILITATION OF MARILAG 1 &amp; 2 DAYCARE CENTER</b>	DATE: 09/17/2021				PERIMETER FENCE ELEVATION STAIR DETAILS STEEL GRATING DETAILS	<b>ST-02</b>
	LOCATION BARANGAY MARILAG DISTRICT 9, QUEZON CITY	CHECKED BY JMN	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. CIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMORITE CITY MAYOR, QUEZON CITY		<b>06/10</b>
	REVISION NO.: 2						





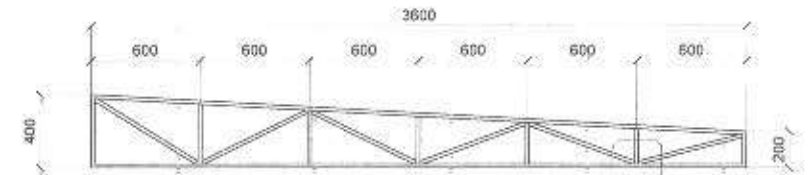
\* 2 - 50mm x 50mm x 6mm THICK ANGLE BAR (TOP & BOTTOM CHORD)  
 \* 2 - 38mm x 38mm x 6mm ANGLE BAR (WEB MEMBER)

TR-1



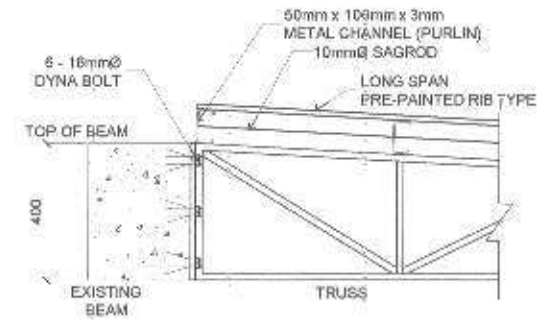
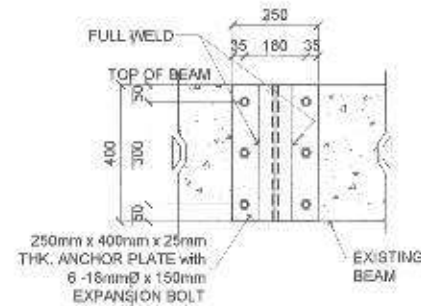
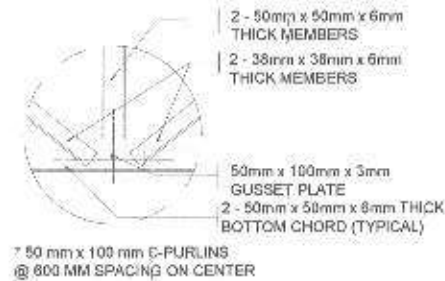
\* 2 - 50mm x 50mm x 6mm THICK ANGLE BAR (TOP & BOTTOM CHORD)  
 \* 2 - 38mm x 38mm x 6mm ANGLE BAR (WEB MEMBER)

TR-2



\* 2 - 50mm x 50mm x 6mm THICK ANGLE BAR (TOP & BOTTOM CHORD)  
 \* 2 - 38mm x 38mm x 6mm ANGLE BAR (WEB MEMBER)

TR-3



1 TRUSS CONNECTION AND DETAILS

SCALE: 1:30M



Republika ng Pilipinas  
 Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF  
 MARILAG 1 & 2 DAYCARE  
 CENTER**

LOCATION:  
 BARANGAY MARILAG DISTRICT 3, QUEZON CITY

DRAWN BY:  
 ENGR. S. B. BERNAL  
 DATE: SEPT 08 2021  
 CHECKED BY:  
 REVISION NO.: 2

SUBMITTED BY:  
  
**ENGR. LEO S. DEL ROSARIO**  
 HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
  
**ENGR. ISAGANI R. VERZOSA, JR.**  
 C.E., CITY ENGINEERING DEPARTMENT

APPROVED BY:  
  
**HON. MA. JOSEFINA G. BELMONTE**  
 CITY MAYOR, QUEZON CITY

SHEET CONTENT:  
 TRUSS CONNECTION  
 AND DETAILS

SHEET NO.  
  
**ST-03**  
**07/10**

1. ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, RULES AND REGULATIONS OF QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED. THE ENGR./ARCH. SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHLORINE OR HYPOCHLORITE SOLUTION.
9. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1-1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
10. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 3.0 MTS. HEAD TO ENSURE THAT THE SYSTEM ARE WATER TIGHT.
11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
12. ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.

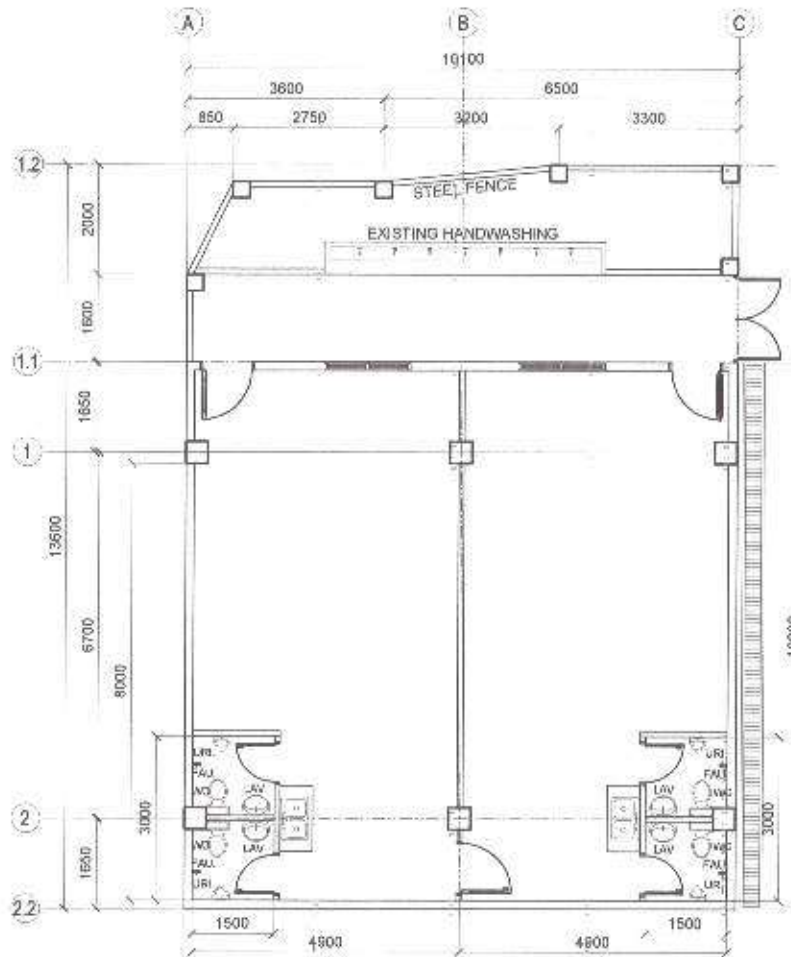
**1 GENERAL NOTES**

**I. SEWER/WASTE AND VENT SYSTEM:**

- SF / WP — SOIL PIPE / WASTE PIPE
- VP / VAC — VENT PIPE / VENT AT CEILING
- DP — STORM DRAIN PIPE
- FCO / GCO — FLOOR CLEANOUT / GROUND CLEANOUT
- COO — CEILING CLEAN-OUT
- DS — DRAINAGE STACK / DOWNSPOUT
- VSTR — VENT STACK (EXTENDED THROUGH ROOF)
- SS — SOIL STACK
- FD — FLOOR DRAIN
- CB — CATCH BASIN
- AD — AREA DRAIN
- STALL TYPE URINAL
- GT — GREASE TRAP

**II. WATER DISTRIBUTION SYSTEM:**

- CWL — COLD WATER LINE
- CWR — COLD WATER RISER
- GV — GATE VALVE
- CV — CHECK VALVE
- WM — WATER METER
- BD — BALCONY DRAIN



NOTE:  
- PLUMBING FIXTURES TO BE REPLACED

**2 LEGENDS AND SYMBOLS**

**3 GROUND FLOOR PLUMBING LAYOUT**

SCALE: 1:100M



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE <b>PROPOSED REHABILITATION OF MARILAG 1 &amp; 2 DAYCARE CENTER</b>	DRAWN BY DATE: 11 SEPT 03, 2021 CHECKED BY: JGG REVISION NO.: 2	SUBMITTED BY 	RECOMMENDING OFFICIAL 	APPROVAL BY 	SHEET CONTENT GENERAL NOTES LEGENDS AND SYMBOLS GROUND FLOOR PLUMBING LAYOUT	SHEET NO. <b>PL-1</b> <b>08/10</b>
LOCATION BARANGAY MARILAG DISTRICT 3, QUEZON CITY	REVISION NO.: 2	ENGR. LEO S. DEL ROSARIO, JR. HEAD, PLANNING & PROSPECTION DIVISION	ENGR. ISAAC R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY		

**GENERAL NOTES:**

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER, FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL, FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- ALL EMBEDDED BRANCH CIRCUITS SHALL BE IN CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE WIRE SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILLIMETER.
- PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS. SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS-BUILT" PLAN.
- ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 200V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFCI" ON THE PLAN.
- ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND BONDED.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

- RECEPTACLE OUTLET - 300 MM AFF. (150MM ABOVE WORKING COUNTER)
- TELEPHONE OUTLET - 300 MM AFF
- GATE OUTLET - 300 MM AFF
- LIGHTING SWITCH - 1400 MM AFF
- PANELBOARD - 1600 MM AFF

- 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.
- ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY BRAND NEW AS SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE DESCRIBED ACTUAL LOCATIONS, LEVEL, AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOBSITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DECISION.
- ALL LIGHTING AND COMMENCEMENT OUTLET CIRCUITS SHALL BE 9.5 SQ. MM THW-2 COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 9.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

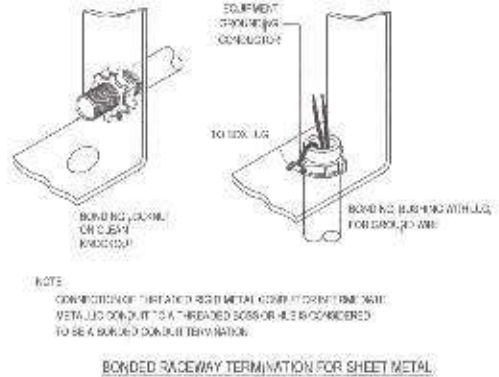
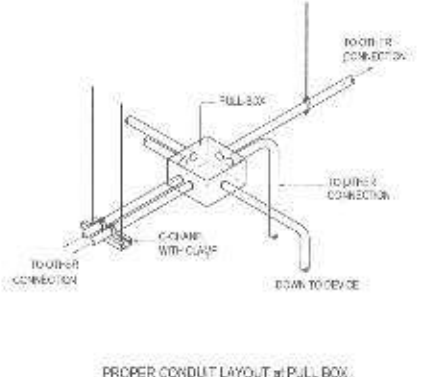
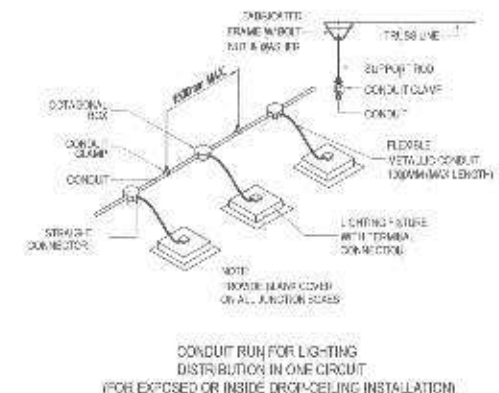
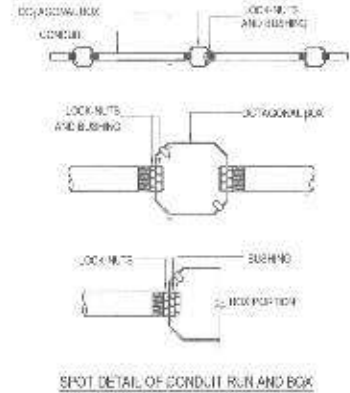
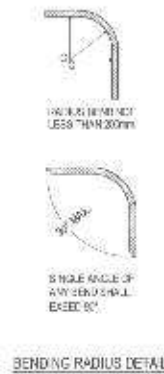
- LINE 1 - RED
- LINE 2 - YELLOW
- NEUTRAL - WHITE
- GROUND - GREEN

- BOXES, WIRE GUTTERS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:  
 MAXIMUM WIDTH OF THE WIDEST SURFACE STEEL:  
 UP TO INCLUDING 152.40 MM: 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 457.30 MM BUT NOT OVER 762 MM: GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT  
 OVER 762 MM: GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCAB. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 60 HERTZ, 230V AC NOMINAL.
- CONDUITS IN NO CASE SHALL THERE 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 CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHMS.

	10 WATTS LED BULB
	300mmx600mm, SURFACE MOUNTED TROFFER TYPE LIGHTING WITH 1-18 WATTS DAYLIGHT LED TUBE
So	ONE GANG SWITCH
SoB	TWO GANG SWITCH

**2 LEGEND & SYMBOLS**

SCALE: NTS



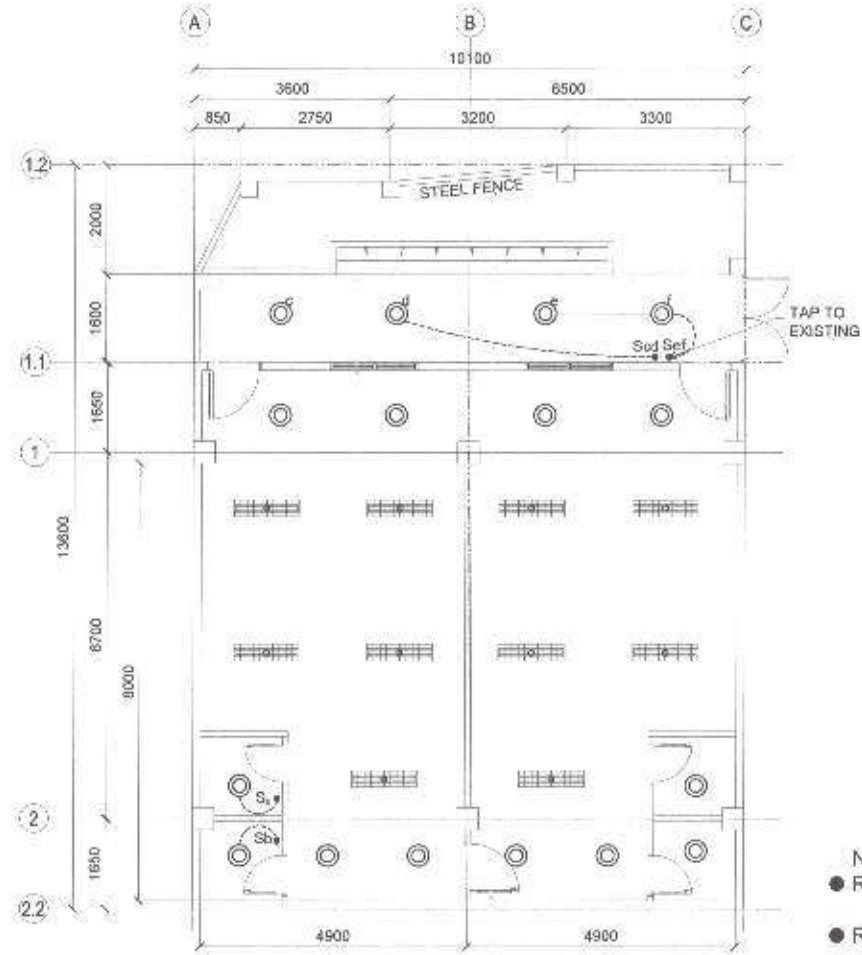
**1 GENERAL NOTES**

SCALE: NTS

**3 MISCELLANEOUS DETAILS**

SCALE: NTS

<p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED REHABILITATION OF MARILAG 1 & 2 DAYCARE CENTER	DATE: SEP 03, 2021				GENERAL NOTES LEGENDS AND SYMBOLS MISCELLANEOUS DETAILS	EL-01 09/10
	LOCATION: BARANGAY MARILAG DISTRICT 8, QUEZON CITY	CHECKED BY:	REVISION NO.: 2	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAAC M. R. VERZOSA, JR. CIC CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	



- NOTE:**
- REPLACEMENT OF ALL LIGHTING FIXTURES.
  - REPLACEMENT OF SWITCH S<sub>a</sub> AND S<sub>b</sub>
  - ADDITIONAL LIGHTING FIXTURES.

**1 LIGHTING LAYOUT**

SCALE: 1:100M



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE: <b>PROPOSED REHABILITATION OF MARILAG 1 &amp; 2 DAYCARE CENTER</b>	DESIGNED BY: L. S. DEL ROSARIO
DATE: SEPT. 02, 2021	CHECKED BY: [Signature]
LOCATION: BARANGAY MARILAG DISTRICT 3 QUEZON CITY	REVISION NO.: 2

SUBMITTED BY: [Signature]
ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMING DIVISION

RECOMMENDING APPROVAL: [Signature]
ENGR. ISAGANI R. VERZOSA, JR. CIC, CITY ENGINEERING DEPARTMENT

APPROVED BY: [Signature]
HON. MA. JOSEFINA G. BELMORTE CITY MAYOR, QUEZON CITY

SHEET CONTENT: LIGHTING LAYOUT
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SHEET NO. <b>EL-02</b> <b>10/10</b>
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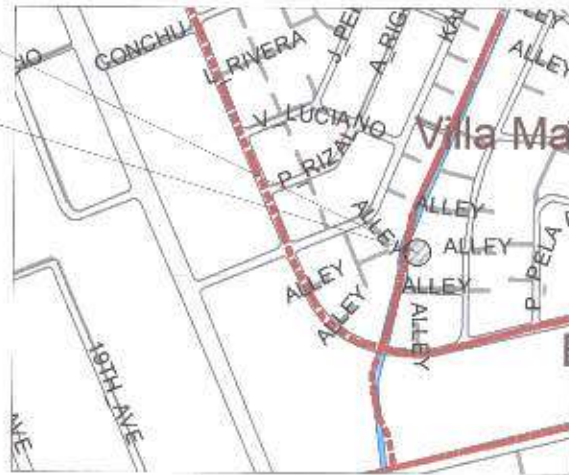
THE SITE



1 VICINITY MAP

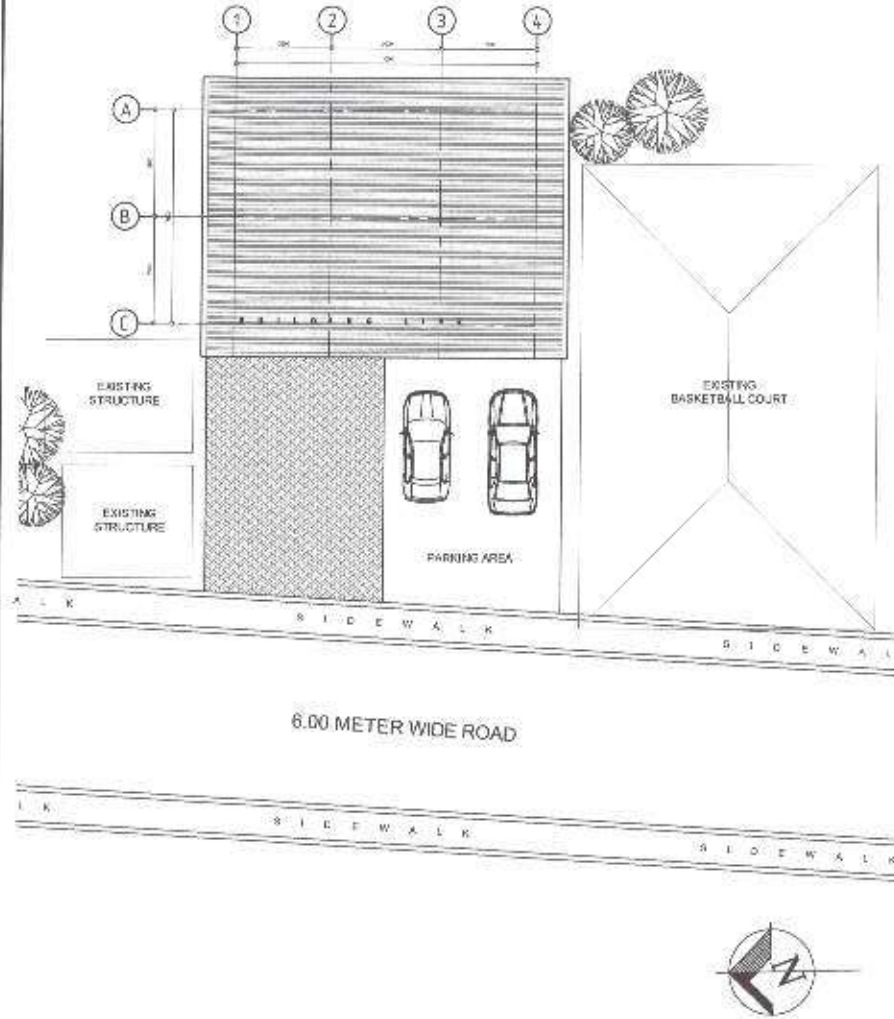
SCALE: NTS

THE SITE



2 LOCATION MAP

SCALE: NTS



3 SITE DEVELOPMENT PLAN

SCALE: 1:200 M

TABLE OF CONTENTS

ARCHITECTURAL

AR-1	VICINITY MAP LOCATION PLAN SITE DEVELOPMENT PLAN
AR-2	GROUND FLOOR PLAN REFLECTED CEILING PLAN
AR-3	FRONT ELEVATION REAR ELEVATION RIGHT SIDE ELEVATION LEFT SIDE ELEVATION
AR-4	LONGITUDINAL SECTION THRU-A CROSS SECTION THRU-B SCHEDULE OF DOOR

PLUMBING

PL-1	GENERAL NOTES LEGENDS AND SYMBOLS PLUMBING LAYOUT
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ELECTRICAL

EL-1	GENERAL NOTES LEGEND AND SYMBOLS MISCELLANEOUS DETAILS
EL-2	GROUND FLOOR LIGHTING LAYOUT



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER**

LOCATION:  
8665 VILF MARIA CLARA, DISTRICT 3, QUEZON CITY

DRAWN BY: [Signature]  
DATE: 08/24/21  
CHECKED BY: JR  
REVISION NO.

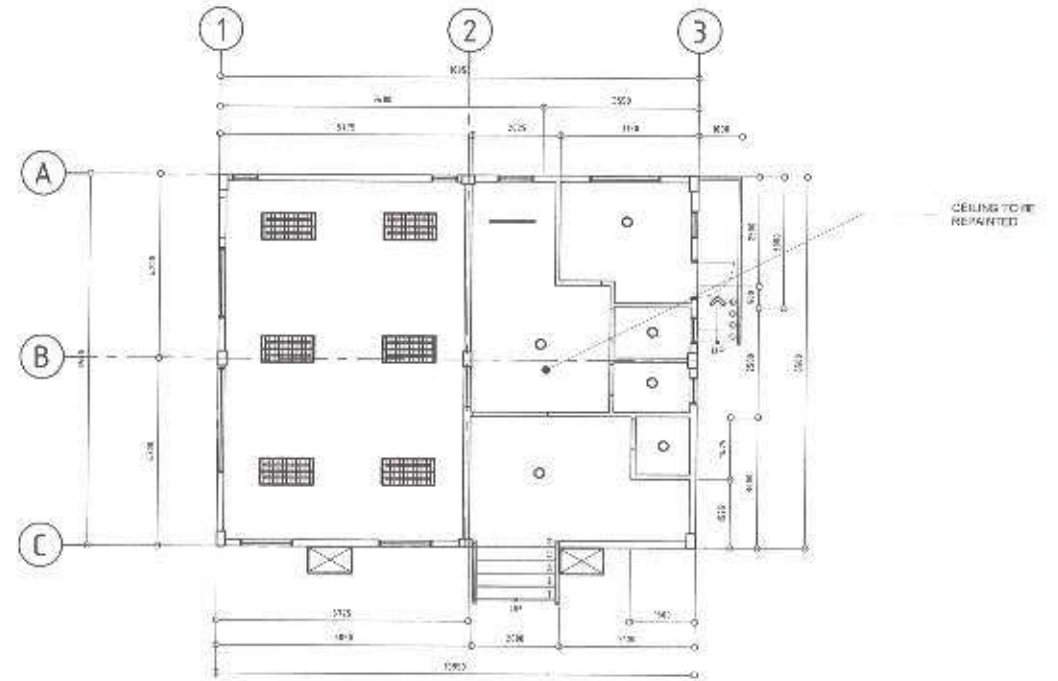
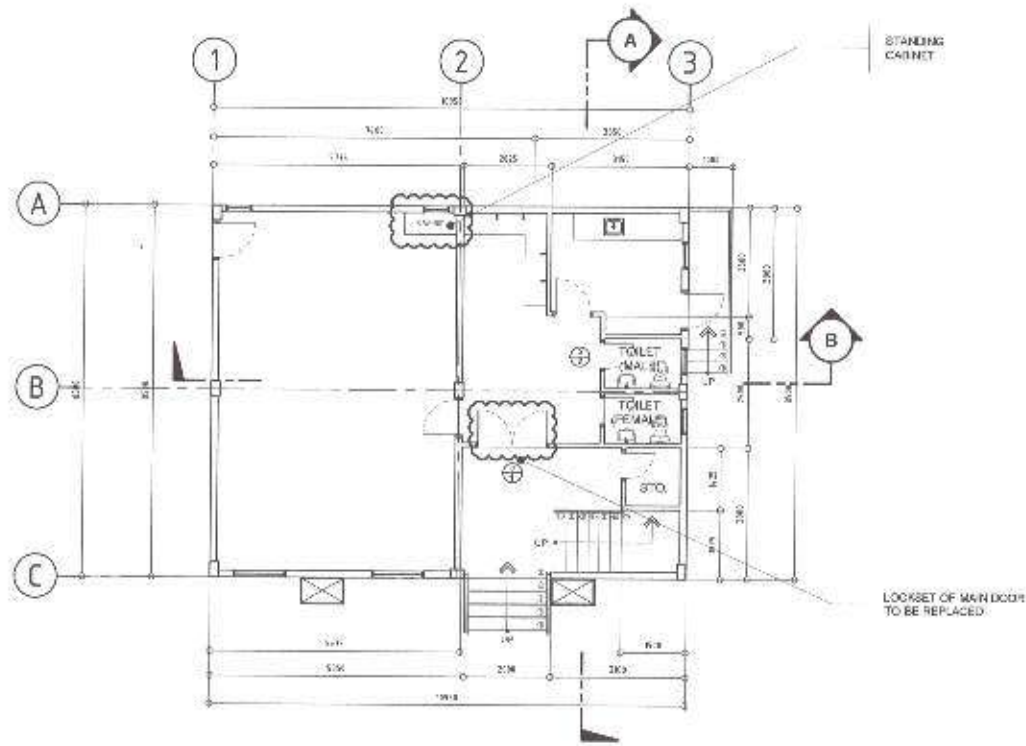
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[Signature]  
**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
[Signature]  
**ENGR. SADRAN R. VERZOSA, JR.**  
CHIEF, CITY ENGINEERING DEPARTMENT

APPROVED BY:  
[Signature]  
**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

SHEET CONTENT:  
VICINITY MAP  
LOCATION MAP  
SITE DEVELOPMENT PLAN

SHEET NO.:  
**AR-01**  
**01 | 07**



NOTE:  
 1. INTERIOR WALLS TO BE REPAIRED  
 2. APPLICATION OF TERMITE TREATMENT

**1 GROUND FLOOR PLAN**

SCALE 1:125M

**2 REFLECTED CEILING PLAN**

SCALE 1:125M



Republika ng Pilipinas  
 Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER**  
 LOCATION:  
 BICOL VILLA MARIA CLARA, DISTRICT 3, QUEZON CITY

DRAWN BY: RMD  
 DATE: 08/24/21  
 CHECKED BY: JRM  
 REVISION NO:

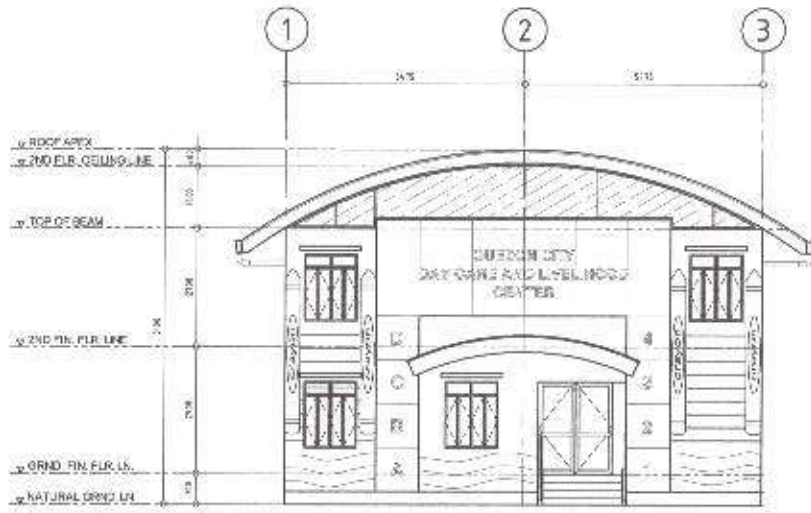
SUBMITTED BY:  
  
**ENGR. LEO S. DEL ROSARIO**  
 HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
  
**ENGR. ISAGANI R. VERZOSA, JR.**  
 CHIEF, CITY ENGINEERING DEPARTMENT

APPROVED BY:  
  
**HON. MA. JOSEFINA G. BELMONTE**  
 CITY MAYOR

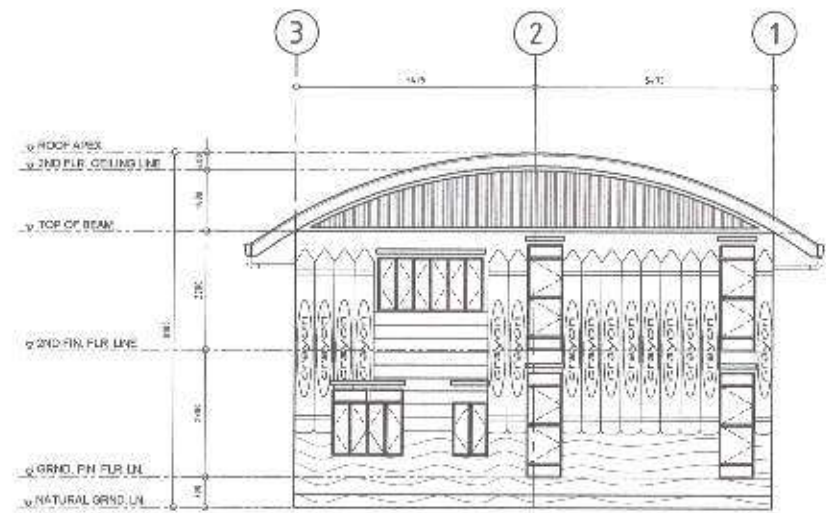
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 GROUND FLOOR PLAN /  
 REFLECTED CEILING PLAN

SHEET NO.:  
**AR-02**  
**02 07**



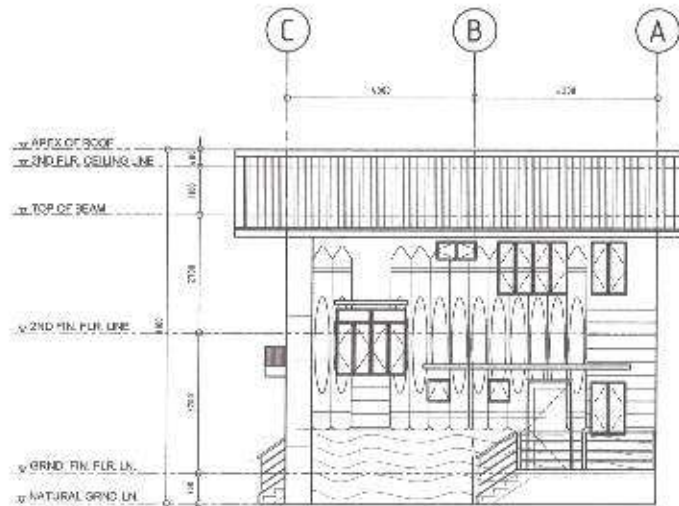
**1 FRONT ELEVATION**

SCALE 1:125M



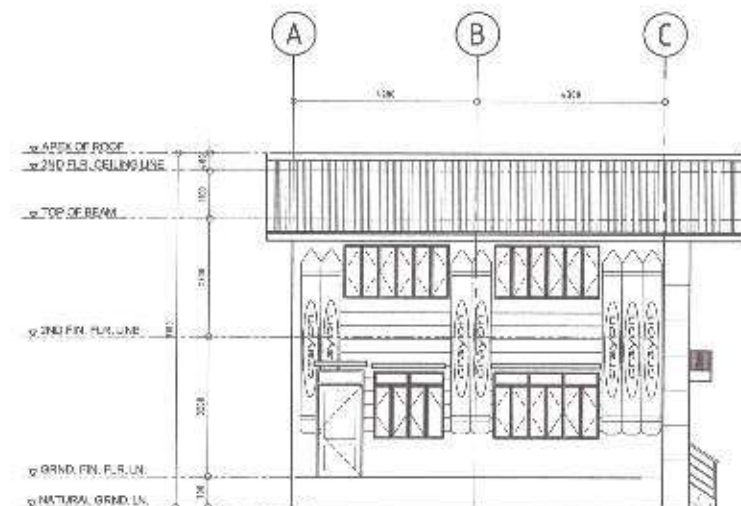
**2 REAR ELEVATION**

SCALE 1:125M



**3 RIGHT SIDE ELEVATION**

SCALE 1:125M



**4 LEFT SIDE ELEVATION**

SCALE 1:125M



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE  
**PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER**

DATE: 08/21  
CHECKED BY: [Signature]  
REVISION NO.

LOCATION:  
BGCY, VILLA MARIA CLARA, DISTRICT 2, QUEZON CITY

DRAWN BY: [Signature]  
DATE: 08/21  
CHECKED BY: [Signature]  
REVISION NO.

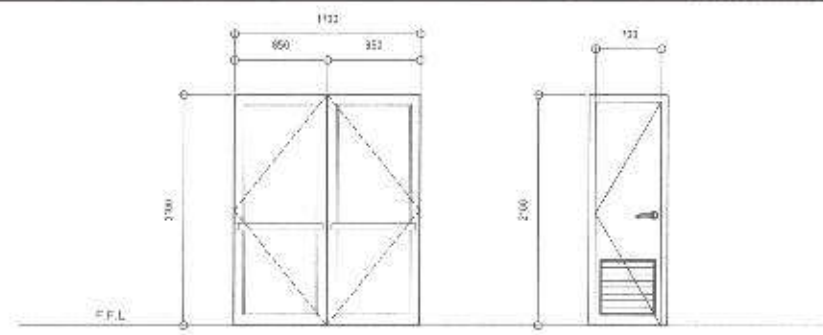
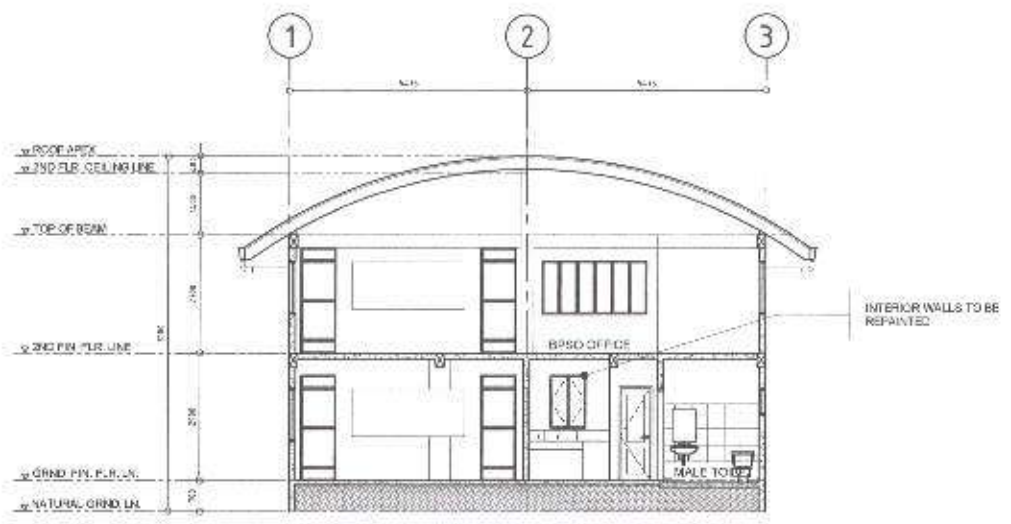
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:  
ENGR. ISAGANI R. VERZOSA, JR.  
D.C. CITY ENGINEERING DEPARTMENT

APPROVED BY:  
HON. MA. JOSEFINA G. BELMONTE  
CITY MAYOR

SHEET CONTENT  
FRONT ELEVATION  
REAR ELEVATION  
RIGHT SIDE ELEVATION  
LEFT SIDE ELEVATION

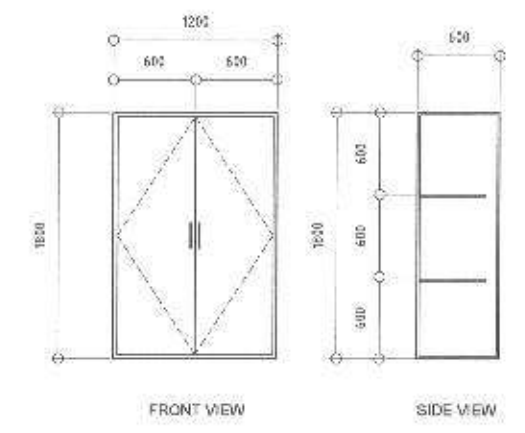
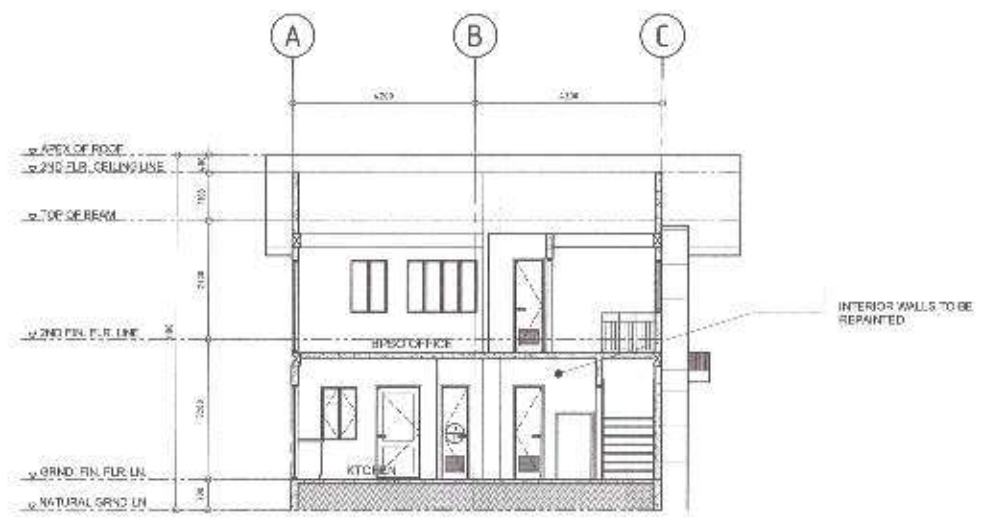
SHEET NO.  
**AR-03**  
**03 07**



NAME	⊕	⊙
NO. OF SETS	1	1
DESCRIPTION	GLASS DOOR	PVC FLUSH DOOR W/ LOUVERS
LOCATION	ENTRANCE	TOILET
REMARKS	LOCKSET TO BE REPLACED	TO BE REPLACED

**1 LONGITUDINAL SECTION THRU-A** SCALE 1:125M.

**3 SCHEDULE OF DOOR** SCALE 1:30M.



PROPOSED HINGE AND LOCK SET  
 1800mm HINGE AND LOCK SET BY HITECHER SP  
 WITH LOCK KEY MECHANISM

**2 CROSS SECTION THRU-B** SCALE 1:125M.

**4 CABINET DETAILS** SCALE 1:40M.

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ENGINEERING DEPARTMENT</b></p>	PROJECT TITLE:	DRAWN BY: <i>[Signature]</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	<b>PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER</b>	DATE: 08.24.21	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	LONGITUDINAL SECTION THRU-A CROSS SECTION THRU-B SCHEDULE OF DOOR	<b>AR-04</b>
	LOCATION: VILLA MARIA CLARA, 1701 CT 3, SHERMAN	CHECKED BY: <i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<b>04 07</b>
	REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. C.C. CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR			



1. ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, RULES AND REGULATION OF QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED. THE ENGR/ARCH SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHLORINE OR HYPOCHLORITE SOLUTION.
9. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1 1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
10. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 30 MTS. HEAD TO ENSURE THAT THE SYSTEM ARE WATER TIGHT.
11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
12. ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.

**1 GENERAL NOTES**

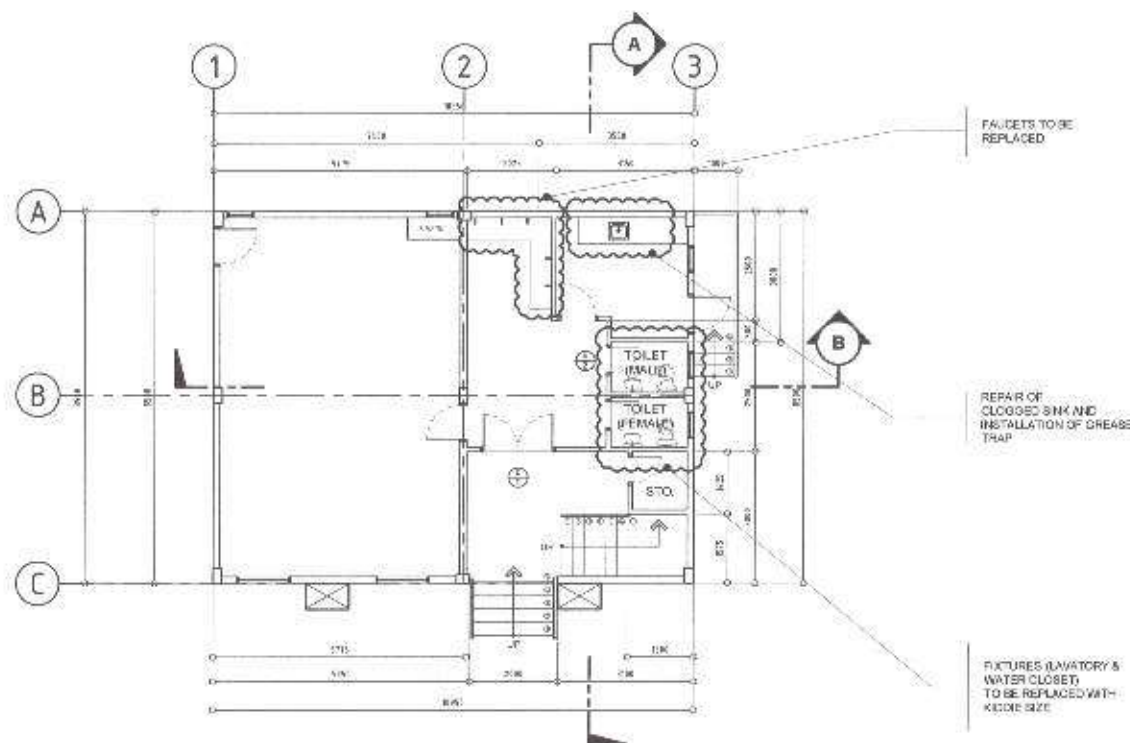
SCALE: NTS

**I. SEWER/WASTE AND VENT SYSTEM:**

- SP / WP - SOIL PIPE / WASTE PIPE
- VP / VAC - VENT PIPE / VENT AT CEILING
- DP - STORM DRAIN PIPE
- FCO / GCO - FLOOR CLEANOUT / GROUND CLEANOUT
- CCO - CEILING CLEAN-OUT
- DS - DRAINAGE STACK / DOWNSPOUT
- VSTR - VENT STACK/EXTENDED THROUGH ROOF
- SS - SOIL STACK
- FD - FLOOR DRAIN
- CB - CATCH BASIN
- AD - AREA DRAIN
- STU - STALL TYPE URINAL
- GT - GREASE TRAP

**II. WATER DISTRIBUTION SYSTEM:**

- CWL - COLD WATER LINE
- CWR - COLD WATER RISER
- GV - GATE VALVE
- CV - CHECK VALVE
- WM - WATER METER
- BD - BALCONY DRAIN



**2 LEGENDS AND SYMBOLS**

SCALE: NTS

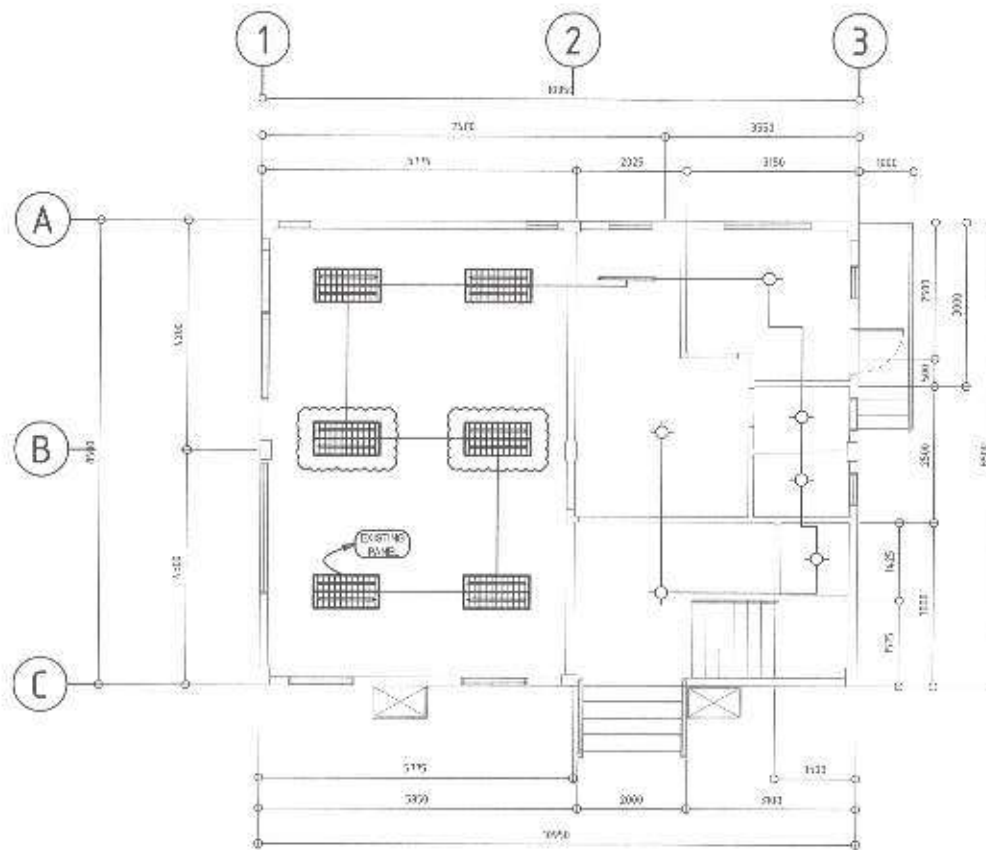
**3 PLUMBING LAYOUT**

SCALE: 1:125M



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE: <b>PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER</b>	DRAWN BY: <i>[Signature]</i> DATE: 05.24.21	SUBMITTED BY: <i>[Signature]</i>	RECOMMENDING APPROVAL: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>	SHEET CONTENT: GENERAL NOTES LEGENDS AND SYMBOLS GROUND FLOOR PLAN	SHEET NO.: <b>PL-1</b> <b>05 07</b>
LOCATION: 8767, VILLA MARIA ZONA, DISTRICT 25, QUEZON CITY	CHECKED BY: <i>[Signature]</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. CH. SMT. ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR		
REVISION NO.						



**1 PROPOSED LIGHTING LAYOUT**

SCALE: 1:100M.



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE	DATE: 08/24/21
<b>PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER</b>	CHECKED BY: <i>[Signature]</i>
LOCATION: PASEO VILLA MARIA CLARA, CHRISTOPHER BALANSON CITY	REVISION NO.:

DRAWN BY: <i>[Signature]</i>	SUBMITTED BY: <i>[Signature]</i>
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**ENGR. LEO S. DEL ROSARIO**  
HEAD, PLANNING & PROGRAMMING DIVISION

**ENGR. ISAGANI R. VERZOSA, JR.**  
CC, CITY ENGINEERING DEPARTMENT

**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

SHEET CONTENT

GENERAL NOTES  
LEGENDS AND SYMBOLS  
MISCELLANEOUS DETAILS  
PROPOSED LIGHTING LAYOUT

SHEET NO.

**EL-2**  
**07 07**

**GENERAL NOTES:**

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE OFFICERS AND AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAYMENTS REQUIRED FOR THE WORK AND SHALL FURNISH THE CONTRACT THROUGH THE ENGINEER'S FINAL CHECKLISTS OF ELECTRICAL INSPECTION AND APPROVAL FROM RESPECTIVE GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- ALL EMBEDDED BRANCH CIRCUITS SHALL BE PROVIDED AND FOR EXPOSED INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE CODE REQUIREMENTS.
- PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS. SIZES OF ALL PULL BOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS OF THE SUGGESTED APPROVAL PRIOR TO EXECUTION. LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE INDICATED ON THE WIRING SCHEDULE PLAN.
- ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 250V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER (GFCI) BREAKERS FOR LOADS MARKED "GFCI" ON THE PLAN.
- ALL METALLIC CONDUITS, CASINGS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDING.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 MM AFF. (150MM ABOVE WORKING COUNTER)  
 TELEPHONE OUTLET - 300 MM AFF.  
 CATV OUTLET - 300 MM AFF.  
 LIGHTING SWITCH - 1400 MM AFF.  
 PANEL BOARD - 500 MM AFF.

- REFER TO MECHANICAL DRAWING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCAL USE OF EQUIPMENT AS WELL AS THEIR CORRESPONDING SCHEDULES AS REFERRED AND/OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- ALL MATERIALS TO BE USED IS ALL OF THE BEST QUALITY BRAND NAMES AS SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND GENERAL DESCRIPTION OF THE PROJECT AND DO NOT NECESSARILY INDICATE THE EXACT ACTUAL LOCATION AND ORIENTATION OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOB SITE AS LOCAL CODES, STANDARDS AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CLEAR FROM ON JOBSITE.
- ALL LIGHTING AND COMMERCIAL OUTLET CIRCUITS SHALL BE 60 HZ, 250V, 1-Ø, 2-WIRE SYSTEM WITH UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 1.5 SQ. MM. CONDUIT WIRE WITH WRES AND OVERLAP SHALL BE AS PER CODE AND LOCALS.

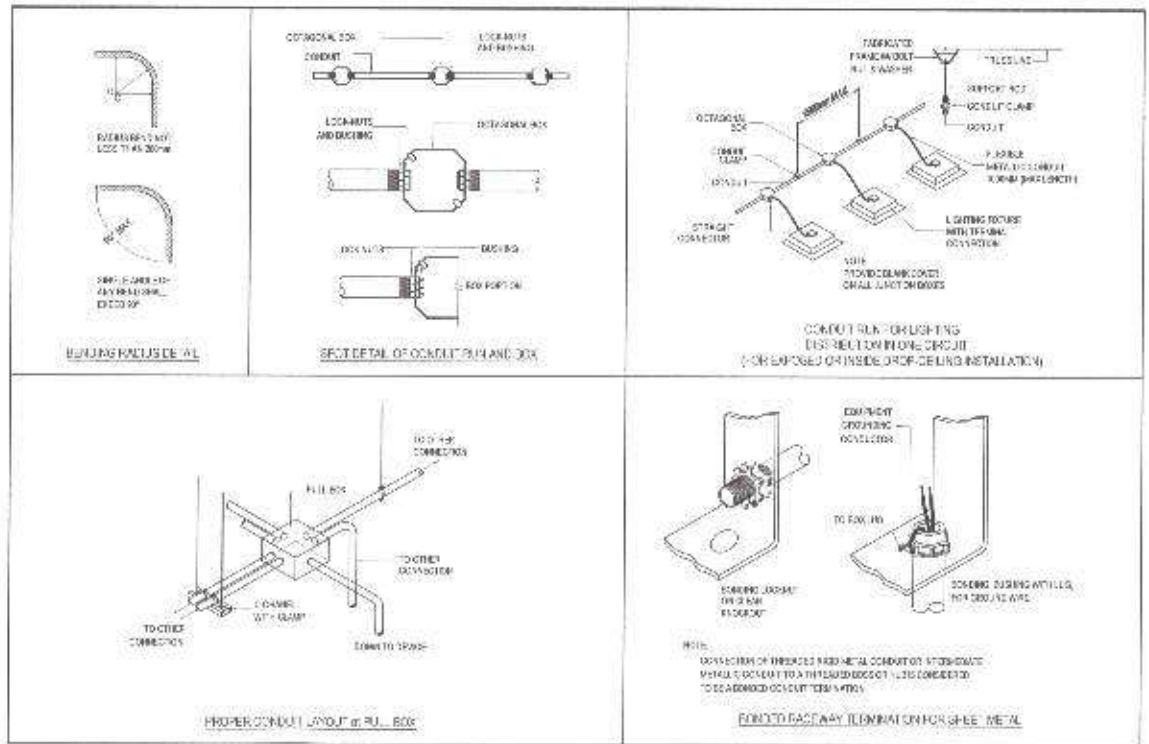
LINE 1 - RED  
 LINE 2 - YELLOW  
 NEUTRAL - WHITE  
 GROUND - GREEN

- BOXES, WIRE, OUTLETS, ENCLOSURE IS ALL OF GALVANIZED PROTECTIVE STEEL WITH THICKNESS AS FOLLOWS:  
 MAXIMUM WIDTH OF THE WIRE SURFACE STEEL:  
 UP TO INCLUDING 150.0 MM NY GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOP COAT  
 OVER 150.0 MM BUT NOT OVER 225 MM NY GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOP COAT  
 OVER 225 MM BUT NOT OVER 300 MM NY GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOP COAT  
 OVER 300 MM NY GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOP COAT
- ELECTRICAL WORK HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULLY LICENSED ELECTRICAL ENGINEER AND A FULLY ACCREDITED E. ELECTRICAL CONTRACTOR BY NORMAL WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROTECTED FROM DAMAGE.
- TYPE OF WIRE OR CABLE SHALL BE AS SPECIFIED. TWO-WIRE PLUS GROUND, 60 HERTZ, 250V AC NON-MAG.
- CONDUITS IN ALL CASES SHALL BE BE MORE THAN THE FOLLOWING PART OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT RUNS SHALL BE FIELD MADE BY USING HYDRAULIC BONDING. MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAIL ON CARBONS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHMS.

	REPLACEMENT: 1200MM, T5, 1 X 28W LED, TUBE LIGHT
	REPLACEMENT: 18W LED BULB
	ADDITIONAL: 600MM X 1200MM, 2 X 18W LED RECESSED TROFFER TYPE
	REPLACEMENT: 600MM X 1200MM, 2 X 18W LED RECESSED TROFFER TYPE

**2 LEGENDS AND SYMBOLS**

SCALE: NTS



**1 GENERAL NOTES**

SCALE: NTS

**3 MISCELLANEOUS DETAILS**

SCALE: NTS

<p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY: <b>LRB</b>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO:
	PROPOSED REHABILITATION OF VILLA MARIA CLARA DAYCARE CENTER	DATE: 08/24/21	<p>ENGR. LEO S. DEL ROSARIO HEAD, PLANNING &amp; PROGRAMMING DIVISION</p>	<p>ENGR. SAGANI R. VERZOSA, JR. D.C. CITY ENGINEERING DEPARTMENT</p>	<p>HON. MA. JOSEFINA G. BELMONTE CITY MAYOR</p>	GENERAL NOTES, LEGENDS AND SYMBOLS, MISCELLANEOUS DETAILS, PROPOSED LIGHTING LAYOUT	EL-1 06/07
	LOCATION: 2067, VILLA MARIA CLARA, DISTRICT 3, QUEZON CITY	CHECKED BY: <b>JL</b>				REVISION NO:	

## ***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 CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 3 / AREA XVIII

**LOCATION :** BARANGAY VILLA MARIA CLARA, BAGUMBUHAY, BAYANIHAN, ESCOPA 3, MARILAG, DISTRICT 3, QUEZON CITY

**PROJECT NO. :** 21 - 00168

**DURATION :** Ninety (90) Calendar Days

**BREAKDOWN OF COST**

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
	<b>VILLA MARIA CLARA DAYCARE CENTER</b>				
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL/STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY/PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	<b>BAGUMBUHAY DAYCARE CENTER</b>				
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL/STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY/PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	<b>BAYANIHAN DAYCARE CENTER</b>				
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL/STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY/PLUMBING WORKS				
	<b>ESCOPA III DAYCARE CENTER</b>				
I	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HANDWASHING FACILITY				
III	REHABILITATION OF DAYCARE CENTER				
	<b>MARILAG 1 AND 2 DAYCARE CENTER</b>				



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

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



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

**PROJECT TITLE :** PROPOSED REHABILITATION OF VILLA MARIA CLARA DAY CARE CENTER

**LOCATION :** BARANGAY VILLA MARIA CLARA, DISTRICT 3, QUEZON CITY

**PROJECT NO. :** 21 - 00168

**SCOPE OF WORK :**

1. General Requirements include, billboard, construction safety and health, and hauling and disposal of construction materials and
2. Site Works including removal of lavatory, water closet and door, cleaning and preparation for painting, chipping of concrete and
3. Civil/Structural Works including masonry works.
4. Architectural Works including floor and wall finishes, installation of doors, fabricated materials and painting works.
5. Plumbing Works including installation of roughing-ins, fixtures and accessories.
6. Electrical Works including installation of roughing-Ins, wirings, fixtures, and accessories.
7. All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
				<b>Direct Cost I</b>	₱
<b>II</b>	<b>SITE WORKS</b>				
	Removal Works				
	Removal of Lavatory	2	set	₱	₱
	Removal of Water Closet	2	set		
	Removal of Door	1	set		
	Chipping of Concrete (For Sanitary/Plumbing Works)	2	sq.m.		
	Cleaning and Preparation for Painting	270	sq.m.		
				Subtotal	₱
	Termite Treatment	5	gal	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				<b>Materials Cost II</b>	₱
				<b>Labor Cost II</b>	
				<b>Direct Cost II</b>	₱
<b>III</b>	<b>CIVIL/ STRUCTURAL WORKS</b>				
	Masonry Works				
	Restoration of Concrete (For Sanitary/Plumbing Works)	3	sq.m.	₱	₱
				<b>Materials Cost III</b>	₱
				<b>Labor Cost III</b>	
				<b>Direct Cost III</b>	₱

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
IV	<b>ARCHITECTURAL WORKS</b>				
	Floor Finishes				
	400mm x 400mm Non-Skid Homogenous Floor Tiles	9	sq.m.	₱	₱
	Floor Topping For Preparation of Tile Works	9	sq.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Wall Finishes				
	400mm x 400mm Homogenous Wall Tiles	3	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D2 - (0.7m x 2.1m) PVC Door with Louver	1	set	₱	₱
	Hardware and Accessories				
	Door Hinges, Heavy Duty, Stainless	3	set		
	Door Knob, Lever Type, Stainless	1	set		
	Aluminum Frame Door Lockset for Main Door	1	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Fabricated Materials				
	Standing Cabinet	1	set		
	Painting Works				
	Flat Latex Paint Finish				
	Interior Wall	200	sq.m.		
	Slab Soffit	68	sq.m.		
	Ceiling	16	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				<b>Materials Cost IV</b>	₱
				<b>Labor Cost IV</b>	
				<b>Direct Cost IV</b>	₱
<b>V</b>	<b>SANITARY/PLUMBING WORKS</b>				
	Sewer Line System				
	50mmØ PVC Pipe with Hub	3	piece	₱	₱
	50mmØ x 50mmØ Wye	4	piece		
	50mmØ 1/8 Bend	4	piece		
	50mmØ P-Trap	1	piece		
	Fixtures				
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	2	set		
	Floor Drain, 100mm x 100mm Stainless Steel	4	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever Type, Stainless, Heavy Duty (Water	7	set		
	Kitchen Sink Faucet, Stainless, Heavy Duty, Lever Type, (Water Efficient)	1	set		
	Lavatory Faucet, Lever Type, Stainless, Heavy Duty (Water Efficient)	2	set		
	Lavatory, Wall Hung (Kiddie)	2	set		
	Water Closet, Kiddie, Tank Type (Water Efficient)	2	set		
	Hardware and Accessories				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Angle Valve, Single-Way Stainless Steel	2	piece		
	Angle Valve, Two-Way Stainless Steel	2	piece		
	Flexible Hose	4	piece		
	Miscellaneous				
	400cc Solvent Cement	1	can		
	All Around Sealant	1	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	1	roll		
	Waste Cloth	1	kg		
				<b>Materials Cost V</b>	₱
				<b>Labor Cost V</b>	
				<b>Direct Cost V</b>	₱
<b>VI</b>	<b>ELECTRICAL WORKS</b>				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	30	piece	₱	₱
	Fittings and Accessories				
	100mm x 100mm PVC Junction Box with Cover	10	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Wires and Cables				
	3.5mm <sup>2</sup> THHN Wire	1	roll		
	3.5mm <sup>2</sup> TW Wire	100	lm		
	Lighting Fixtures ( Energy Efficient )				
	600mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories, Surface Mounted Type	6	set		
	18W LED Bulb With Receptacle	6	piece		
	T5, 28W LED Tube Light	1	piece		
	Hangers And Supports				
	Tox No.6 w/ 1" x 7" Metal Screw	2	box		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All around Sealant	1	can		
	Electrical Tape	4	roll		
	G.I Tie Wire	2	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	2	roll		
	Rubber Tape	2	roll		
				<b>Materials Cost VI</b>	₱
				<b>Labor Cost VI</b>	
				<b>Direct Cost VI</b>	₱

**SUMMARY**

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱ 47,854.00
II	SITE WORKS	
III	CIVIL/ STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	SANITARY/PLUMBING WORKS	
VI	ELECTRICAL WORKS	
<b>NOTE:</b>		
<ul style="list-style-type: none"> <li>Strictly enforce health protocols relative to the latest applicable DPWH memorandum</li> </ul>		
		<b>TOTAL DIRECT COST</b> ₱
		Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM)
		Profit
		VAT
		<b>TOTAL ESTIMATED COST</b> ₱

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

**PROJECT TITLE :** PROPOSED REHABILITATION OF BAGUMBUHAY DAY CARE CENTER

**LOCATION :** BARANGAY BAGUMBUHAY, DISTRICT 3, QUEZON CITY

**PROJECT NO. :** 21 - 00168

**SCOPE OF WORK :**

1. General Requirements include temporary enclosure, billboard, construction safety and health, and clearing, hauling and disposal of
2. Site Works include removal works, termite treatment, clearing and cleaning for painting preparation and relocation of Air-
3. Civil Works include masonry works, moisture protection, metal works and roofing works.
4. Architectural Works include installation of floor finishes, wall finishes, doors and windows, fabricated materials, painting works and
5. Plumbing / Sanitary Works include installation of roughing-ins, fixtures and accessories.
6. Electrical Works include installation of roughing-Ins, wirings, devices, fixtures and accessories.
7. All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Temporary Enclosure Around the Construction Area (h=2.4)	25	l.m.		
				<b>Direct Cost I</b>	₱
<b>II</b>	<b>SITE WORKS</b>				
	Relocation of Window Type Air-Conditioning Unit	1	unit	₱	₱
	Removal Works				
	Removal of Dilapidated Tiles	16	sq.m		
	Removal of Windows	1	sq.m		
	Removal of Roof	19	sq.m		
	Removal of Doors	2	unit		
	Removal of Water Closet	1	unit		
	Removal of Lavatory	1	unit		
	Chipping of Concrete (Electrical Works and Plumbing /	4	sq.m.		
	Demolition of Countertop	2	sq.m.		
	Removal of Under Counter Cabinet	10	sq.m.		
	Clearing and Cleaning for Painting Preparation	174	sq.m.		
				Subtotal	₱
	Termite Treatment	4	gal		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				<b>Materials Cost II</b>	₱

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				<b>Labor Cost II</b>	
				<b>Direct Cost II</b>	₱
<b>III</b>	<b>CIVIL / STRUCTURAL WORKS</b>				
	Masonry Works				
	Plastering of CHB Walls (Electrical Works and Plumbing / Sanitary Works)	5	sq.m.	₱	₱
	Moisture Protection				
	Waterproofing Works				
	Cementitious Capillary Type Waterproofing	5	sq.m.		
	Metal Works				
	Window Grilles				
	25mm x 25mm x 4mm Tubular Bar	215	kg		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	6	piece		
	Cut Off Blade	3	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	2	tank		
	Welding Rod	1	box		
	Roofing Works				
	6mm Solid Sheet Polycarbonate including Accessories	20	sq.m.		
	Pre-painted G.I. End Flashing	7	l.m.		
	Tekscrew	150	l.m.		
	Silicon Sealant	2	tube		
				<b>Materials Cost III</b>	₱
				<b>Labor Cost III</b>	
				<b>Direct Cost III</b>	₱
<b>IV</b>	<b>ARCHITECTURAL WORKS</b>				
	Floor Finishes				
	400mm x 400mm Non-Skid Homogenous Floor Tiles	4	sq.m.	₱	₱
	Floor Topping for Preparation of Tile Works	4	sq.m.		
	Wall Finishes and Partitions				
	400mm x 400mm Homogenous Wall Tiles	15	sq.m.		
	6mm Thk Double Wall Fiber Cement Board including Metal Framing	10	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1- (1.60m x 2.10m) Double Swing Door on Powder Coated Aluminum Frame	1	set	₱	₱
	D2- (0.60m x 2.10m) PVC Door with Louver	1	set		
	D3- (0.80m x 2.10m) Wooden Panel Door	1	set		
	Door Jambs				
	Wooden Jambs				
	D3 - Panel Door Wooden Jamb	1	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	6	set		
	Door Knob, Lever Type, Stainless	2	set		
	Installation of Windows				
	W2 - (1.8m x 0.4m) Awning Glass Window on Powder Coated	1	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	62	sq.m.	₱	₱
	Epoxy Enamel Finish (Steel Surfaces)	38	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	157	sq.m.		
	Slab Soffit	74	sq.m.		
	Fabricated Materials				
	Countertop with Aluminum Cover	3	l.m.		
	Under Counter Cabinet	5	l.m.		
	Letterings				
	Stainless Steel Signage (200mm x 200mm) "BAGUMBUHAY"	23	piece		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost IV	₱
				Labor Cost IV	
				Direct Cost IV	₱
<b>V</b>	<b>PLUMBING / SANITARY WORKS</b>				
	Sanitary Line/Storm Drainage System				
	50mm Ø PVC Pipe with Hub	5	piece	₱	₱
	50mm Ø x 50mm Ø Wye	5	piece		
	100mm Ø x 50mm Ø Wye	5	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	10	piece		
	50mm Ø x 50mm Ø PVC 1/8 Bend	10	piece		
	50mm Ø x 32mm Ø PVC Tap Tee	5	piece		
	100mm Ø PVC Cleanout	2	piece		
	50mm Ø PVC P-Trap	3	piece		
	Waterline System				
	20mm Ø PPR Pipe	8	piece		
	20mm Ø x 20mm Ø Equal Tee	3	piece		
	25mm Ø x 20mm Ø Female Threaded Tee	3	piece		
	25mm Ø End Cap	3	piece		
	20mm Ø x 20mm Ø PPR 90° Elbow	3	piece		
	Valve and Appurtenances				
	20mmØ Gate Valve PPR	1	piece		
	Fixtures				



ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	1	unit		
	Hose Bibb, Heavy Duty (Water Efficient)	1	piece		
	Kitchen Sink Faucet, Lever Type (Water Efficient)	3	piece		
	Lavatory, Wall Hung, Kiddy	1	unit		
	Lavatory Faucet, Lever-type, Stainless Steel (Water Efficient)	1	piece		
	Water Closet, Tank Type, Kiddy (Water Efficient)	1	unit		
	Accessories & Hardwares				
	Angle Valve, Single-Way, Stainless	4	piece		
	Angle Valve, Two-Way, Stainless	1	piece		
	Flexible Hose, Stainless	5	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	3	can		
	All Purpose Sealant	3	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	15	roll		
	Waste Cloth	3	kg		
				<b>Materials Cost V</b>	<b>₱</b>
				<b>Labor Cost V</b>	
				<b>Direct Cost V</b>	<b>₱</b>
<b>VI</b>	<b>ELECTRICAL WORKS</b>				
	Lighting and Power System				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	12	piece	₱	₱
	Fittings & Accessories				
	50mm x 100mm Metal Utility Box	3	piece		
	100mm x 100mm Metal Junction Box with Cover	3	piece		
	Wires and Cables				
	5.5mm <sup>2</sup> THHN Wire	15	lm		
	3.5mm <sup>2</sup> THW Wire	12	lm		
	Lighting fixtures (Energy Efficient)				
	T5, 8W LED Tube Light	7	piece		
	8W LED Light Bulb with Receptacle	1	piece		
	Wiring Devices				
	Orbit Fan, with Selector Switch	1	set		
	Outlet with Grounding , One-gang for ACU/Freezer, Heavy Duty	1	piece		
	Outlet with Grounding , Two-Gang for Orbit Fan	1	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Electrical Tape	2	roll		
	General Purpose Construction Adhesive	2	tube		
	Hacksaw Blade	3	piece		
	Masking Tape	2	roll		
	Pulling Lubricant	1	can		
	Rubber Tape	2	roll		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Materials Cost VI	₱
				Labor Cost VI	
				Direct Cost VI	₱

**SUMMARY**

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	SITE WORKS	
III	CIVIL / STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	PLUMBING / SANITARY WORKS	
VI	ELECTRICAL WORKS	
<b>NOTE:</b>	<ul style="list-style-type: none"> <li>• <b>Strictly enforce health protocols relative to the latest applicable DPWH memorandum</b></li> </ul>	<p style="text-align: right;"><b>TOTAL DIRECT COST</b> ₱</p> <p style="text-align: right;">Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM)</p> <p style="text-align: right;">Profit</p> <p style="text-align: right;">VAT</p>
		<p style="text-align: right;"><b>TOTAL ESTIMATED COST</b> ₱</p>

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

**PROJECT TITLE :** PROPOSED REHABILITATION OF BAYANIHAN DAY CARE CENTER

**LOCATION :** BARANGAY BAYANIHAN, DISTRICT 3, QUEZON CITY

**PROJECT NO. :** 21 - 00168

**SCOPE OF WORK :**

- 1 General Requirements include billboard, construction safety and health and clearing, hauling and disposal of construction materials and debris.
- 2 Site Works include removal works, cleaning and clearing for painting preparation, chipping of concrete, and termite treatment.
- 3 Civil/Structural Works include masonry works.
- 4 Architectural Works include floor and wall finishes, painting works, installation of doors and fabricated materials.
- 5 Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.
- 6 All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
				<b>Direct Cost I</b>	₱
<b>II</b>	<b>SITE WORKS</b>				
	Removal Works				
	Removal of Lavatory	1	set	₱	₱
	Removal of Water Closet	1	set		
	Removal of Door	1	set		
	Chipping of Concrete (For Sanitary/Plumbing Works)	2	sq.m.		
	Cleaning and Clearing for Painting Preparation	233	sq.m.		
				Subtotal	₱
	Termite Treatment	4	gal	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				<b>Materials Cost II</b>	₱
				<b>Labor Cost II</b>	
				<b>Direct Cost II</b>	₱
<b>III</b>	<b>CIVIL/ STRUCTURAL WORKS</b>				
	Masonry Works				
	Restoration of Concrete (For Plumbing Works)	2	sq.m.	₱	₱

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				<b>Materials Cost III</b>	₱
				<b>Labor Cost III</b>	
				<b>Direct Cost III</b>	₱
<b>IV</b>	<b>ARCHITECTURAL WORKS</b>				
	Floor Finishes				
	300mm x 300mm Non-Skid Homogenous Floor Tiles	1	sq.m.	₱	₱
	Floor Topping For Preparation of Tiles	1	sq.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Wall Finishes				
	300mm x 300mm Homogenous Wall Tiles	1	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (1.0m x 2.5m) Wooden Panel Door with Transom	1	set	₱	₱
	Door Jambs				
	D1 - (1.0m x 2.5m) Wooden Panel Door with Transom	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	3	set		
	Door Knob, Lever Type, Stainless	1	set		
	Aluminum Frame Door Lockset	1	set		
	Pivot Hinge	2	piece		
	Miscellaneous				
	Silicon Sealant for Glass Blocks	5	tube		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Flat Latex Paint Finish				
	Interior Walls	177	sq.m.	₱	₱
	Slab Soffit	68	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	3	l.m.		
	Countertop aluminum cover with complete frame and accessories	3	l.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost IV	₱
				Labor Cost IV	
				Direct Cost IV	₱
<b>V</b>	<b>SANITARY/PLUMBING WORKS</b>				
	Sewer Line System				
	100mmØ PVC Pipe with Hub	2	piece	₱	₱
	100mmØ x 100mmØ Wye	3	piece		
	100mmØ 1/8 Bend	6	piece		
	100mmØ x 50Ø Reducer	1	piece		
	50mmØ P-Trap	2	piece		
	Water Line System				
	20mm Ø PPR Pipe, PN 16	1	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	20mmØ x 20mmØ Tee Equal	3	piece		
	20mm Ø PPR 90° Elbow	4	piece		
	20mm Ø PPR End Cap	3	piece		
	20mm Ø PPR Coupling	5	piece		
	25mm Ø x 20mm Ø PPR Reducer	2	piece		
	20mm Ø x 15mm Ø PPR Female Threaded Tee	3	piece		
	Fixtures				
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm Stainless Steel	1	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever Type, Stainless, Heavy Duty (Water Efficient)	9	set		
	Kitchen Sink Faucet, Lever Type, Stainless, Heavy Duty, (Water Efficient)	1	set		
	Lavatory Faucet, Lever Type, Stainless, Heavy Duty (Water Efficient)	1	set		
	Lavatory, Wall Hung (Kiddie)	1	set		
	Water Closet, Kiddie, Tank Type (Water Efficient)	1	set		
	Hardware and Accessories				
	Angle Valve, Single-Way Stainless Steel	2	piece		
	Angle Valve, Two-Way Stainless Steel	1	piece		
	Flexible Hose	3	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Miscellaneous				
	400cc Solvent Cement	1	can		
	All Around Sealant	1	can		
	Hacksaw Blade	1	piece		
	Teflon Tape	5	roll		
	Waste Cloth	1	kg		
				<b>Materials Cost V</b>	₱
				<b>Labor Cost V</b>	
				<b>Direct Cost V</b>	₱

**SUMMARY**

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	SITE WORKS	
III	CIVIL/ STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	SANITARY/PLUMBING WORKS	
<b>NOTE:</b>	<ul style="list-style-type: none"> <li>Strictly enforce health protocols relative to the latest applicable DPWH memorandum</li> </ul>	<p style="text-align: right;"><b>TOTAL DIRECT COST</b> ₱</p> <p style="text-align: right;">Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM)</p> <p style="text-align: right;">Profit</p> <p style="text-align: right;">VAT</p>
		<b>TOTAL ESTIMATED COST</b> ₱

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

**PROJECT TITLE :** PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF ESCOPA 3 DAY CARE CENTER

**LOCATION :** BARANGAY ESCOPA 3, DISTRICT 3, QUEZON CITY

**PROJECT NO. :** 21 - 00168

**Scope of Works:**

- I. General Requirements include temporary enclosure, billboard, clearing, hauling, and disposal of construction materials and debris, scaffolding, and construction safety and health.
- II. CONSTRUCTION OF HANDWASHING FACILITY
  - a. Installation of single and double sink portable handwashing facility
  - b. Site Works include chipping of concrete for sanitary/plumbing works.
  - c. Civil/Structural Works include masonry works.
  - d. Sanitary/Plumbing Works include installation of roughing ins.
- III. REHABILITATION OF ESCOPA 3 DAYCARE CENTER
  - a. Site Works include demolition/removal works, and cleaning and clearing for painting preparation.
  - b. Civil/Structural Works include concrete works, masonry works, moisture protection, and metal works.
  - c. Architectural Works includes floor finishes, wall finishes, installations of doors, and painting works.
  - d. Sanitary/Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
  - e. Electrical Works include installation of roughing-ins, wirings, devices, fixtures, circuit breakers, and accessories.
- IV. All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	26	sq.m.		
	Temporary Enlosure around the Construction Area ( h=2.4m)	8	lm		
				<b>Direct Cost I</b>	<b>₱</b>
<b>II</b>	<b>CONSTRUCTION OF HANDWASHING FACILITY</b>				
A.	<b>HANDWASHING FACILITY</b>				
	Single Sink Portable Hand Washing Facility	2	unit	₱	₱
	Double Sink Portable Hand Washing Facility	1	unit		
				<b>Direct Cost A</b>	<b>₱</b>
B.	<b>SITE WORKS</b>				
	Chipping of concrete (Sanitary/Plumbing Works)	7	sq.m.	₱	₱
				<b>Direct Cost B</b>	<b>₱</b>
C.	<b>CIVIL/STRUCTURAL WORKS</b>				
	Masonry Works				
	Restoration of Concrete Floor	7	cu.m.	₱	₱
				<b>Materials Cost C</b>	<b>₱</b>
				<b>Labor Cost C</b>	
				<b>Direct Cost C</b>	<b>₱</b>
D.	<b>SANITARY AND PLUMBING WORKS</b>				
	Sanitary Line / Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	3	piece	₱	₱



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	50mm Ø x 50mm Ø Wye	1	piece		
	100mm Ø x 50mm Ø Wye	1	piece		
	50mm Ø x 50mm Ø 1/4 Bend	2	piece		
	50mm Ø x 50mm Ø 1/8 Bend	4	piece		
	50mm Ø Cleanout	1	piece		
	Waterline System				
	20mm Ø PPR Pipe	6	piece		
	20mm Ø x 20mm Ø Equal Tee	1	piece		
	20mm Ø x 20mm Ø PPR 90° Elbow	6	piece		
	20mm Ø PPR Coupling	10	piece		
	25mm Ø x 20mm Ø PPR Reducer	1	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	piece		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
				Materials Cost II	₱
				Labor Cost II	
				Direct Cost II	₱
<b>III</b>	<b>REHABILITATION OF DAYCARE CENTER</b>				
<b>A</b>	<b>SITE WORKS</b>				
	Removal/Demolition of Existing Structure				
	Removal of Existing Doors	7	set	₱	₱
	Removal of Existing Urinal	1	set		
	Removal of Existing Water Closet	1	set		
	Removal of Existing Lavatory	2	set		
	Removal of Existing Kitchen Sink	1	set		
	Clearing and Cleaning for Painting Preparation	14	sq.m.		
				Direct Cost A	₱
<b>B</b>	<b>CIVIL WORKS</b>				
	Concrete Works				
	On-Site Mix Concrete, 21MPa, 3/4" Gravel, @ 28 days				
	Ramp	1	cu.m.	₱	₱
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Plastering	8	sq.m.		
	Plastering of Door Opening	1	sq.m.		
	Moisture Protection				
	Cementitious Capillary Type Waterproofing	3	sq.m.		
	Metal Works				
	Steel Gate Railing				
	20mm x 5mm thk Flat Bar	133	kg		
	Rotatable Folding Lid Support Hinge with accessories	343	piece		
	32mm Sliding Door Roller U-Type Grove Wheel	6	piece		
	500mm x 15mm Round Bar	2	piece		
	100mm x 100mm x 0.5mm Stainless Steel Sheet	5	piece		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	1	tank		
	Assorted Metal Drill Bit	2	piece		
	Cut Off Blade	2	piece		
	Grinding Disc Metal	2	piece		
	Oxygen Tank Refill	1	tank		
	Welding Rod	1	box		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₱
<b>C</b>	<b>ARCHITECTURAL WORKS</b>				
	Floor Finishes				
	300mm x 300mm Homogeneous Tile (Comfort Room)	3	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Tile (Comfort Room)	35	sq.m.	₱	
				Material Cost	₱
				Labor Cost	
				Subtotal	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Installation of Doors				
	D1 - (1.4m x 2.1m) 6mm thk Clear Glass Aluminum Framed Door	3	set	₱	₱
	D2 - (1.0m x 2.1m) Wooden Panel Door	1	set		
	D3 - (1.9m x 0.6m) PVC Door with Louver	4	set		
	Door Jambs				
	D2 - (1.0m x 2.1m) Wooden Panel Door	1	set		
	Hardware and Accessories				
	Door Hinge, Heavy Duty, Stainless	15	set		
	Door Knob, Stainless Lever Type	5	set		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Painting Works				
	Elastomeric Paint w/ Standard Design Finish (Exterior walls)	74	sq.m	₱	₱
	Epoxy Enamel Paint Finish (Gate & Metal Louver)	13	sq.m		
	Flat Latex Paint Finish (Interior wall)	186	sq.m		
	Flat Latex Paint Finish (Ceiling Slab Soffit)	102	sq.m.		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
				Material Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
D	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	PVC Roughing-Ins				
	50mm Ø PVC Pipe with Hub	6	piece	₱	₱
	75mm Ø PVC Pipe with Hub	3	piece		
	100mm Ø PVC Pipe with Hub	10	piece		
	50mm Ø x 50mm Ø Wye	4	piece		
	75mm Ø x 50mm Ø Wye	2	piece		
	75mm Ø x 75mm Ø Wye	8	piece		
	100mm Ø x 50mm Ø Wye	3	piece		
	100mm Ø x 75mm Ø Wye	1	piece		
	100mm Ø x 100mm Ø Wye	2	piece		
	50mm Ø x 50mm Ø Tee	3	piece		
	75mm Ø x 50mm Ø Tee	1	piece		
	100mm Ø x 50mm Ø Tee	1	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	8	piece		
	75mm Ø x 75mm Ø PVC 1/4 Bend	2	piece		
	100mm Ø x 100mm Ø PVC 1/4 Bend	2	piece		
	50mm Ø x 50mm Ø PVC 1/8 Bend	8	piece		
	75mm Ø x 75mm Ø PVC 1/8 Bend	4	piece		
	100mm Ø x 100mm Ø PVC 1/8 Bend	8	piece		
	50mm Ø PVC Cleanout	2	piece		
	100mm Ø PVC Cleanout	2	piece		
	50mm Ø PVC P-Trap	7	piece		
	Waterline System				
	PPR Roughing-Ins				
	20mm Ø PPR Pipe	4	piece		
	25mm Ø PPR Pipe	6	piece		
	20mm Ø x 20mm Ø Equal Tee	2	piece		
	25mm Ø x 25mm Ø Equal Tee	1	piece		
	20mm Ø x 15mm Ø Female Threaded Tee	3	piece		
	20mm Ø End Cap	3	piece		
	20mm Ø x 20mm Ø PPR 90° Elbow	8	piece		
	25mm Ø x 25mm Ø PPR 90° Elbow	5	piece		
	20mm Ø PPR Coupling	6	piece		
	25mm Ø PPR Coupling	9	piece		
	25mm Ø x 20mm Ø PPR Reducer	1	piece		
	Valves and Appurtenances				
	25mm Ø PPR Gate Valve	1	piece		
	Plumbing Fixtures (Water Efficient)				
	Bidet, Heavy Duty Stainless (Water Efficient)	2	set		
	Floor Drain, 100mm x 100mm, Stainless	3	piece		
	Grease Trap, 5GPM Heavy Duty, Stainless	1	set		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Heavy Duty Stainless (Water Efficient)	1	set		
	Lavatory Wall Hung, Kiddy	2	set		
	Lavatory Faucet, Lever Type, Stainless Heavy-duty (Water Efficient)	1	piece		
	Urinal, Flush Type, Kiddy (Water Efficient)	2	set		
	Water Closet, Tank Type, Kiddy (Water Efficient)	2	set		
	Accessories & Hardwares				
	Angle Valve, Single-Way, Stainless	3	piece		
	Angle Valve, Two-Way, Stainless	2	piece		
	Facial Mirror, 450mm x 600mm x 6mm	2	piece		
	Flexible Hose, Stainless	5	piece		
	Soap Dispenser	1	piece		
	Toilet Tissue Holder, Stainless	1	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	12	roll		
	Waste Cloth	1	kg		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
E	<b>ELECTRICAL WORKS</b>				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	40	piece	₱	₱
	80mmØ IMC Pipe	20	piece		
	Fittings & Accessories				
	80mmØ IMC Elbow	8	piece		
	80mmØ IMC Locknut & Bushing	11	piece		
	80mmØ IMC Coupling	9	piece		
	4" x 2" Metal Utility Box	2	piece		
	4" x 4" Metal Junction Box with cover	2	piece		
	100mm x 100mm Metal Square Box	2	piece		
	Wires and Cables				
	3.5mm² THHN Wire	1	roll		
	5.5mm² THHN Wire	50	lm		
	175mm² THHN Wire	60	lm		
	2.0mm² THW Wire	70	lm		
	3.5mm² THW Wire	50	lm		
	30mm² THW Wire	50	lm		
	Lighting Fixtures (Energy Efficient)				
	T5, 8W LED Tube Light	14	set		
	8W LED light bulb with Receptacle	4	set		
	Wiring Devices				
	Ceiling mounted Exhaust fan	1	piece		
	Outlet with Grounding , One-gang for ACU/Freezer, Heavy Duty	1	piece		
	Outlet with Grounding , One-gang	1	piece		
	Switch with plate and cover, Two-gang	1	piece		
	Circuit Breakers				
	30AT, 2P, 230V, MCCB	1	Assy		
	300AT, 2P, 230V, MCCB	1	Assy		
	MCB				
	Main: 300 AT, 400AF 2P 70 KAIC @ 230V w/ Ground Terminal Enclosure: NEMA 3R	1	Assy		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	40	l.m.		
	Vertical Layout of Pipe	30	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All around Sealant	1	can		
	Electrical Tape	1	roll		
	General Purpose Construction Adhesive	2	tube		
	Hacksaw Blade	2	piece		
	Masking Tape	1	roll		
	Rubber Tape	1	roll		
				Materials Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
				<b>Materials Cost III</b>	₱
				<b>Labor Cost III</b>	
				<b>Direct Cost III</b>	₱

**SUMMARY**

ITEM	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
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ITEM NO. NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I II III	GENERAL REQUIREMENTS CONSTRUCTION OF HANDWASHING FACILITY REHABILITATION OF DAYCARE CENTER				P
<b>Note:</b> Strictly enforce health protocols relative to the latest applicable DPWH memorandum	<b>TOTAL DIRECT COST</b> P Overhead, Contingencies and Miscellaneous Expenses (OCM) PROFIT VAT				
	<b>TOTAL ESTIMATED COST</b> P				

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

**PROJECT TITLE :** PROPOSED REHABILITATION OF MARILAG 1 AND 2 DAY CARE CENTER

**LOCATION :** BARANGAY ESCOPA 3, DISTRICT 3, QUEZON CITY

**PROJECT NO. :** 21 - 00168

**SCOPE OF WORKS:**

- I. General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health, hauling and disposal of construction materials and debris
- II. Site Works include removal/demolition works, cleaning and clearing for painting preparation, earthworks and gravel bedding.
- III. Civil/Structural Works include concrete works, masonry works, metal works and roofing works.
- IV. Architectural Works include installation of floor and wall finishes, doors, painting works and fabricated materials.
- V. Sanitary/plumbing Works include replacement of plumbing fixtures and accessories.
- VI. Electrical Works include installation of roughing-ins, wirings, devices, fixtures and accessories.
- VII All necessary testing and commisioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
<b>I.</b>	<b>GENERAL REQUIREMENTS</b>				
	Billboard	1	unit	₱	₱
	Cleaning, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	48	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	48	l.m.		
				<b>Direct Cost I</b>	<b>₱</b>
<b>II.</b>	<b>SITE WORKS</b>				
	Removal / Demolition Works				
	Removal of Existing Tiles	104	sq.m.	₱	₱
	Removal of Existing Roofing	37	sq.m.		
	Removal of Existing Perimeter Fence	52	sq.m.		
	Removal of Existing Door and Door Jambs	6	set		
	Removal of Existing Gate	1	unit		
	Removal of Existing Water Closet	4	unit		
	Removal of Existing Lavatory	4	unit		
	Removal of Existing Urinal	4	unit		
	Removal of Existing CHB Wall	2	sq.m.		
	Cleaning and Clearing for Painting Preparation	203	sq.m.		
	Excavation				
	Footing	4	cu.m.		
	Backfill and Compaction	3	cu.m.		
				Subtotal	₱
	Gravel Bedding	1	cu.m	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				<b>Materials Cost II</b>	<b>₱</b>



ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Labor Cost II	
				Direct Cost II	₱
<b>III.</b>	<b>CIVIL WORKS / STRUCTURAL WORKS</b>				
	Concrete Works				
	On Site Mix 21 MPa, 3/4" Gravel, @ 28 days				
	Footing	2	cu.m.	₱	₱
	Column	1	cu.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Reinforcing Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire #16				
	10mm Ø Reinforcing Steel Bar				
	Column (Ties)	187	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	16mm Ø Reinforcing Steel Bar				
	Footing	151	kg		
	Column	100	kg		
	Formworks				
	Footing	3	sq.m		
	Column	4	sq.m		
	Scaffolding and Shoring				
	Column	7	l.m.		
	Masonry Works				
	Plastering of Door Opening	2	sq.m.		
	Metal Works				
	Roof Framing				
	38mm x 38mm x 6mm Angular Bars	253	kg		
	50mm x 50mm x 6mm Angular Bars	717	kg		
	50mm x 100mm x 3mm Gusset Plate	167	kg		
	250mm x 400mm x 25mm Anchor Plate	585	kg		
	50mm x 100mm x 3mm C-Purlins	368	kg		
	10mmØ Sagrod	11	kg		
	16mm x 200mm Dynabolt	18	piece		
	Perimeter Fence				
	100mmØ GI Pipe, sch. 40	411	kg		
	50mmØ thk GI Pipe, sch. 40	213	kg		
	20mm x 5mm Flat Bar	45	kg		
	50mm x 50mm Wire Mesh	31	sq.m.		
	Steel Grating				
	38mm x 38mm x 5mm Angular Bars	68	kg		
	20mm x 5mm Flat Bar	130	kg		
	10mm Ø Twisted Rod	13	kg		
	Gate 1				
	50mm x 50mm x 3mm Tubular	44	kg		
	25mm x 50mm x 3mm Tubular	523	kg		
	38mmØ Footbolt	1	piece		
	38mmØ Barrel Bolt	1	piece		
	Cylindrical Hinges, Heavy Duty, Stainless	4	piece		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	4	tank		
	Cut Off Blade	5	piece		
	Grinding Disc Metal	5	piece		
	Oxygen tank Refill	8	tank		
	Welding Rod	4	box		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	38	sq.m		
	Pre-Painted G.I. End Flashing	21	l.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	6mm Thk One-Sided Aluminum Foil Thermal Insulation	38	sq.m.		
	Tekscrew	124	piece		
	Blind Rivet	207	piece		
	Silicon Sealant	19	tube		
				<b>Materials Cost III</b>	<b>₱</b>
				<b>Labor Cost III</b>	
				<b>Direct Cost III</b>	<b>₱</b>
<b>IV.</b>	<b>ARCHITECTURAL WORKS</b>				
	Floor Finishes				
	300mm x 300mm Non-Skid Homogeneous Floor Tiles (Comfort Rooms)	10	sq.m.	₱	₱
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	103	sq.m.		
	Floor Topping for Preparation of Tile Works	113	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Wall Tiles (Comfort Rooms)	10	sq.m.		
	Countertop Finishes				
	600mm x 600mm Homogenous Tiles	3	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Installation of Doors				
	D1- 0.9m x 2.10m Glass Door	2	set	₱	₱
	D2 - 0.70m x 1.90m PVC Door with Louver	4	set		
	D3 - 0.9m x 2.10m Panel Door	1	set		
	Door Jambs				
	D3 - 0.9m x 2.10m Panel Door	1	set		
	Hardware and Accessories				
	Door Hinge, Heavy Duty, Stainless	28	piece		
	Door Knob, Lever Type, Stainless	2	piece		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	62	sq.m.	₱	₱
	Flat Latex Paint Finish				
	Interior Walls	38	sq.m.		
	Ceiling	50	sq.m.		
	Pipe Chase	4	sq.m.		
	Epoxy Enamel Paint Finish (Steel Surfaces, Gate & Metal Louver)	173	sq.m.		
	Quick Dry Enamel Silver (Electrical Works)	1	lit		
	Fabricated Materials (Pipe Chase)				
	20mm thk Marine Plywood (2.4m x 1.2m)	2	piece		
	Hardware and Accessories				
	Assorted CWN	4	kg		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱
				Materials Cost IV	₱
				Labor Cost IV	
				Direct Cost IV	₱
<b>V.</b>	<b>SANITARY / PLUMBING WORKS</b>				
	Sewer Line / Storm Drainage System				
	Plumbing Fixtures				
	Bidet, Heavy Duty Stainless (Water Efficient)	4	set	₱	₱
	Floor Drain, 100mm x 100mm , Stainless	4	piece		
	Grease Trap, Stainless, 5GPM	4	set		
	Hose Bibb, Lever Type-Stainless Heavy-duty (Water Efficient)	4	set		
	Kitchen Sink, Single Tub	4	set		
	Kitchen Sink Faucet, Lever Type (Water Efficient)	4	set		
	Lavatory Faucet, Lever-type Heavy Duty Stainless Steel (Water Efficient)	4	piece		
	Lavatory Wall Hung - Kiddy	4	set		
	Urinal, Flush Type, Kiddy (Water Efficient)	2	set		
	Water Closet, Tank Type, Kiddy, (Water Efficient)	4	set		
	Accessories & Hardwares				
	Angle Valve, Single Way, Stainless	4	piece		
	Angle Valve, Two Way, Stainless	4	piece		
	Flexible Hose, Stainless	4	piece		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Soap Dispenser	4	piece		
	Tissue Holder, Stainless	4	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	All-Around Sealant	3	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	8	roll		
	Waste Cloth	2	kg		
				<b>Materials Cost V</b>	<b>₱</b>
				<b>Labor Cost V</b>	
				<b>Direct Cost V</b>	<b>₱</b>

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
<b>VI.</b>	<b>ELECTRICAL WORKS</b>				
	Roughing-ins				
	20mmØ PVC Moulding	12	piece	₱	₱
	Fittings & Accessories				
	100mm x 50mm Metal Utility Box	3	piece		
	100mm x 100mm Metal Junction Box with Cover	5	piece		
	Wires and Cables				
	3.5mm² THHN Wire	54	lm		
	2.0mm² THW Wire	27	lm		
	Lighting Fixtures				
	10 Watts LED Light Bulb	12	piece		
	10 Watts LED Light Bulb with Receptacle	4	set		
	300mm x 600mm Surface Mounted Troffer Type Lighting with 1-18W Daylight LED Tube	10	set		
	Wiring Devices				
	Switch with Plate and Cover, One-Gang	2	piece		
	Switch with Plate & Cover, Two-Gang	2	piece		
	Miscellaneous & Consumables				
	All Around Sealant	2	can		
	General Purpose Construction Adhesive	2	tube		
	Electrical Tape	1	roll		
	Hacksaw Blade	2	piece		
	Masking Tape	1	roll		
	Rubber Tape	1	roll		
				<b>Materials Cost VI</b>	₱
				<b>Labor Cost VI</b>	
				<b>Direct Cost VI</b>	₱

**SUMMARY**

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	SITE WORKS	
III	CIVIL / STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	SANITARY / PLUMBING WORKS	
VI	ELECTRICAL WORKS	
	<b>TOTAL DIRECT COST</b>	₱
	Overhead, Contingencies and Miscellaneous Expenses (OCM)	
	Profit	
	VAT	
	<b>TOTAL ESTIMATED COST</b>	₱

**Note:**  
Strictly enforce health protocol relative to the latest applicable DPWH Memorandum.

## ***Section IX. Checklist of Technical and Financial Documents***

### **Notes on the Checklist of Technical and Financial Documents**

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

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

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

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class “A” Documents*

#### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**and**
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;  
**and**
- (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

#### Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy*); **and**
- (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**
- (h) Philippine Contractors Accreditation Board (PCAB) License;  
**or**  
Special PCAB License in case of Joint Ventures;  
**and** registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
  - a. Organizational chart for the contract to be bid;
  - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*);
  - c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment



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

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

Additional Technical Requirements:

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

#### Financial Documents

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

#### **Class "B" Documents**

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

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

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

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**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 guidelines<sup>1</sup> for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

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<sup>1</sup> currently based on GPPB Resolution No. 09-2020

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

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

## **Bid Securing Declaration Form**

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

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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]*

## Omnibus Sworn Statement (Revised)

*[shall be submitted with the Bid]*

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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, 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, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

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

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

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

**IN WITNESS WHEREOF**, I have hereunto set my hand this \_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

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

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

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

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### 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.

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

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

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

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

*for: for:*

*[Insert Procuring Entity] [Insert Name of Supplier]*

**Acknowledgment**

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



## Performance Securing Declaration (Revised)

*[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]*

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

### PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To:  
[Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturee/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
  - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
    - i. Procuring Entity has no claims filed against the contract awardee;
    - ii. It has no claims for labor and materials filed against the contractor; and
    - iii. Other terms of the contract; or
  - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

**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]*

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: \_\_\_\_\_

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PHP)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	
									TOTAL AMOUNT (Php) OF OUTSTANDING WORKS		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

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

**SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID**

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

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

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

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

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

**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.

## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: \_\_\_\_\_

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

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

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

REPUBLIC OF THE PHILIPPINES)

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

**AFFIDAVIT OF UNDERTAKING**

I, \_\_\_\_\_ of legal age, Filipino, \_\_\_\_\_ [OFFICER OR REPRESENTATIVE]

with office address at \_\_\_\_\_ after having been duly sworn to in accordance with law, hereby voluntary depose and state:

That I am duly authorized representative of the [Name of Bidder] to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.

That [Name of Bidder] bidding for the (Name of Project)

That relative to the aforementioned Project, the [Name of Bidder] hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ at \_\_\_\_\_.

AFFIANT FURTHER SAYETH NAUGHT.

\_\_\_\_\_  
Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this \_\_\_ day of \_\_\_\_\_  
\_\_\_\_\_ in \_\_\_\_\_

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

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

\_\_\_\_\_  
Notary Public



