

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 I AREA I**

**Project number:
22-00024**

**Sixth Edition
July 2020**

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



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



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

February 8, 2022

Invitation to Bid

| No | Project No. | Project Name | Location | Amount | Duration Cal. Days | Office | Source Fund |
|-----------------------------------|-------------|--|--|--------------|--------------------|-------------------|------------------------|
| <u>Buildings – Small B</u> | | | | | | | |
| 1 | 21-00157B | Proposed Construction of Hand Washing Facility at Payatas C Elementary School | Payatas | 1,278,401.32 | 60 | Engineering Dept. | Special Education Fund |
| 2 | 22-00020 | Proposed Upgrading of Electrical System at San Vicente Elementary School | San Vicente | 1,520,269.09 | 90 | Engineering Dept. | Special Education Fund |
| 3 | 22-00021 | Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area V and VI | Balingasa, Manresa and Sta. Tersita | 1,935,806.59 | 60 | Engineering Dept. | Engineering Department |
| 4 | 22-00022 | Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area IV | Mariblo and Talayan | 3,338,152.13 | 75 | Engineering Dept. | Engineering Department |
| 5 | 22-00023 | Proposed Rehabilitation of Electrical System at Diosdado P. Macapagal Elementary School | Tatalon | 3,363,516.00 | 90 | Engineering Dept. | Special Education Fund |
| 6 | 22-00024 | Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area I | Bagong Pag-Asa, Project 6 and Sto. Cristo | 3,881,427.69 | 90 | Engineering Dept. | Engineering Department |
| 7 | 22-00025 | Proposed Rehabilitation of Electrical System at Pugad Lawin High School | Bahay Toro | 4,405,341.15 | 120 | Engineering Dept. | Special Education Fund |
| 8 | 22-00026 | Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area II | Bahay Toro, Katipunan and San Antonio | 6,205,275.26 | 90 | Engineering Dept. | Engineering Department |
| 9 | 22-00027 | Proposed Rehabilitation of SDEC Building at Barangay Milagrosa | Milagrosa | 6,375,076.19 | 120 | Engineering Dept. | Engineering Department |
| 10 | 22-00028 | Proposed Rehabilitation of Electrical System at Pura V. Kalaw Elementary School | Milagrosa | 6,421,965.23 | 120 | Engineering Dept. | Special Education Fund |
| 11 | 22-00029 | Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area III | Bungad, Nayon Kanluran, Paltok, Sta. Cruz and Veterans Village | 9,489,328.13 | 90 | Engineering Dept. | Engineering Department |

| | | | | | | | |
|---------------------------------------|----------|--|--|---------------|-----|-------------------|---|
| 12 | 22-00030 | Proposed Rehabilitation of Day Care Center at District 5 / Area VIII (Cluster 1) | Greater Lagro, Fairview and North Fairview | 9,857,947.75 | 90 | Engineering Dept. | Engineering Department |
| 13 | 22-00031 | Proposed Construction of Additional two (2) storey and Improvement of Existing two (2) storey Multi-Purpose Livelihood Center, Barangay Kaunlaran, Quezon City | Kaunlaran | 24,800,293.60 | 270 | Engineering Dept. | 20% CDF |
| <u>Flood Control – Small B</u> | | | | | | | |
| 14 | 22-00032 | Proposed Rehabilitation of Alley and Construction of Reinforced Concrete Retaining Wall at Odelco Riverside | San Bartolome | 9,364,427.28 | 150 | Engineering Dept. | Local Disaster Risk Reduction and Management Fund |
| <u>Roads – Small B</u> | | | | | | | |
| 18 | 22-00033 | Proposed Rehabilitation of Manhole Covers and Surface Improvement at M. Agoncillo Street | Novaliches Proper | 1,262,339.58 | 60 | Engineering Dept. | 20% CDF |
| 19 | 22-00034 | Proposed Rehabilitation of Road and Drainage at Tandoc Property Urban HOA, Inc. | Gulod | 1,619,893.25 | 90 | Engineering Dept. | 20% CDF |
| 19 | 22-00035 | Proposed Rehabilitation (Surface Improvement) at Camarin Avenue | Kaligayahan | 2,716,606.23 | 20 | Engineering Dept. | 20% CDF |

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 **9 February 2022 (Wednesday)** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

STANDARD RATES:

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

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before **February 16, 2022 - 5:00PM**.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference¹ on **February 17, 2022 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **March 2, 2022 – 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 **March 2, 2022 - 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

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

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



11. For further information, please refer to:

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

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 I AREA I**, with Project Identification Number **22-00024**.

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

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2022** in the amount of **Three Million Eight Hundred Eighty-One Thousand Four Hundred Twenty-Seven Pesos & 69/100 Cts. (P 3,881,427.69)**.

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 **February 17, 2022, 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 | Subcontracting is not allowed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.3 | <i>No additional contractor license or permit is required</i> <i>In addition, eligible bidders shall qualify or comply with the following:</i> 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Building - Small B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.4 | <table><tr><td colspan="4">The minimum work experience requirements for key personnel are the following:</td></tr><tr><td colspan="4">PROPOSED REHABILITATION OF BARANGAY BAGONG PAG-ASA DAY CARE CENTER</td></tr><tr><td>Qty.</td><td>Key Personnel</td><td>General Experience</td><td>Relevant Experience</td></tr><tr><td>1</td><td>Project Engineer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>DPWH duly accredited Materials Engineer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Safety Officer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Foreman</td><td>3 years</td><td>3 years</td></tr><tr><td>5</td><td>Skilled Worker</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Driver</td><td>3 years</td><td>3 years</td></tr><tr><td>5</td><td>Laborer</td><td>1 year</td><td>3 months</td></tr><tr><td colspan="4">PROPOSED REHABILITATION OF PROJECT 6 DAY CARE CENTER</td></tr><tr><td>Qty.</td><td>Key Personnel</td><td>General Experience</td><td>Relevant Experience</td></tr><tr><td>1</td><td>Project Engineer</td><td>3 years</td><td>3 years</td></tr></table> | The minimum work experience requirements for key personnel are the following: | | | | PROPOSED REHABILITATION OF BARANGAY BAGONG PAG-ASA 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 | 5 | Laborer | 1 year | 3 months | PROPOSED REHABILITATION OF PROJECT 6 DAY CARE CENTER | | | | Qty. | Key Personnel | General Experience | Relevant Experience | 1 | Project Engineer | 3 years | 3 years |
| The minimum work experience requirements for key personnel are the following: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROPOSED REHABILITATION OF BARANGAY BAGONG PAG-ASA 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Laborer | 1 year | 3 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROPOSED REHABILITATION OF PROJECT 6 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 | Foreman | 3 years | 3 years |
| | 7 | Skilled Worker | 3 years | 3 years |
| | 1 | Driver | 3 years | 3 years |
| | 10 | Laborer | 1 year | 3 months |
| | PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF BAHAY BULILIT DAY CARE CENTER | | | |
| | Qty. | Key Personnel | General Experience | Relevant Experience |
| | 1 | Project 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 |
| | 5 | Laborer | 1 year | 3 months |
| | <i>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.</i> | | | |
| 10.5 | The minimum major equipment requirements are the following: PROPOSED REHABILITATION OF BARANGAY BAGONG PAG- ASA 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 PROJECT 6 DAY CARE CENTER | | | |
| | Equipment | Capacity | Number of Units | |
| | Elf Truck | | 1 | |

| | |
|------|---|
| | Scaffolding as needed Power Tools as needed Minor Tools as needed PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF BAHAY BULILIT DAY CARE CENTER Equipment Capacity Number of Units Elf Truck 1 Scaffolding as needed Power Tools as needed Minor Tools as needed Cut-Off Machine as needed <i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.</i> |
| 12 | [Insert Value Engineering clause if allowed.] |
| 15.1 | The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts: a) The amount of not less than Php 77,628.55 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b) The amount of not less than Php 194,071.38 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond. |
| 19.2 | Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award. |
| 20 | No additional requirement. |
| 21 | Additional Contract Documents relevant to the Project as required: 1. Construction Schedule and S-curve, 2. Manpower Schedule, 3. Construction Methods, 4. Equipment Utilization Schedule, 5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal. |

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

| GCC Clause | |
|------------|---|
| 2 | Completion of work shall be within 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

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PROJECT NAME: PROPOSED REHABILITATION OF BARANGAY BAGONG PAG-ASA
DAYCARE CENTER
LOCATION: BARANGAY BAGONG PAG-ASA, DISTRICT 1, QUEZON CITY

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

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.

III. CIVIL / STRUCTURAL WORKS

A. 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. WALLS AND FLOOR FINISHES

- a. 300mm x 300mm Non-skid Homogeneous Floor Tile including tile adhesive
- b. 50mm Concrete Topping for Tiles
- c. 300mm x 300mm Homogeneous Tiles

B. CEILING FINISHES

- a. 12mm thk gypsum board on metal furring
- b. 12mm thk moisture resistant gypsum board on metal furring

C. DOORS & WINDOWS

- a. Follow as per approved plan and specifications

D. PAINTING WORKS

- d. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material
- e. Application shall be as per paint Manufacturer's specification and recommendation.
- f. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works
- g. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- h. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- i. 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
- j. 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 the 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 workman.
- 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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PROJECT TITLE : PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND
REHABILITATION OF BAHAY BULIT DAY CARE CENTER /
LOCATION : BARANGAY STO. CRISTO, DISTRICT 1, QUEZON CITY

TECHNICAL SPECIFICATIONS

I. GENERAL REQUIREMENTS

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

3. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 4. Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage.
 5. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
 6. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
1. A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 2. The medical room shall be provided with waterproofing; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 3. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
 4. Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
 5. Personal Protective Equipment (PPE) shall consist of safety helmet/hard hat, safety reflectorized vest, safety insulated gloves, dust mask, safety shoes, safety goggles, and safety harness. Every skilled and unskilled worker, and the project foreman shall be provided PPE by the Contractor. Consideration of quantity shall be made for the Project Engineer, Materials Engineer, Safety Officer/Practitioner (as required) and project driver.
 6. Construction safety materials shall consist of safety net, fire extinguisher and safety signage and posters.
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance 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 work.
- B. This item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.
- Removal and/or demolition of existing structures shall be done in accordance to safety procedures
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed

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

Trenches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Plans or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown. The elevations of the bottoms of footings, as shown on the Plans, shall be considered as approximate only and the Engineer may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary, to secure a satisfactory foundation.

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

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

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

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

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

1. Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Trenches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter apart and applied with Liquid Termicide Concentrate working solution at the rate of 8 liters per linear meter.
2. Drenching. When soil show termite infestation, this method shall be applied. The building area shall be thoroughly drenched with Liquid Termicide Concentrate working solution at the rate of 24 liters per square meter

III. CIVIL / STRUCTURAL WORKS

A. METAL FABRICATION

1. Materials:

- a. Steel and Iron. If not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.
- b. Bolts, Nuts, Studs and Rivets. ASTM A 307 and A 325.
- c. Screws. Fed. Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec FF-S-111
- d. Metal Purlins. High grade galvanized steel with minimum tensile strength of 275 MPa, 1.4mm in thickness or approved equal.

2 Fabrication.

By mechanics skilled in the trade and in accordance with the manufacturer's directions. Metalwork shall be fabricated to allow for expansion and contraction of materials. Provide welding and bracing of adequate strength and durability, with tight, flush joints, dressed smooth and clean. Complete with bolts and nuts

3. Metal Surfaces.

Surfaces shall be clean and free from all scale, flake, rust and rust pitting, well-formed and finished to shape and size, with sharp lines, angle and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and flush rivets shall be used and finished flush smooth on surfaces that will be exposed after installation. Do not use screws or bolts where they can be avoided; when used, heads shall be countersunk, screwed up tight and threads nicked to prevent loosening.

4. Construction:

Thickness of metals and details of assembly and supports shall give ample strength and stiffness for the minimum loads specified or indicated. Joints exposed to weather shall be formed to exclude water.

5. Welding:

Use welding electrode E70xx and perform welding, welding inspection and corrective welding in accordance with AWS D1.1. Weld in a manner to prevent permanent distortion of the connected parts. Weld continuously along the entire area of contact (except where tack welding is permitted. Do not tack weld exposed to connections). Grind smooth visible weld in finished installation.

B. ROOFING WORKS

1. 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 1/2" 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.
2. 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 1/2" 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.
3. 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.

IV. ARCHITECTURAL WORKS

A. FLOOR FINISHES

1. 600mm x 600mm Unglazed Ceramic Tiles including tile adhesive
2. 300mm x 300mm Unglazed Ceramic Tiles including tile adhesive
3. 50mm concrete Topping with Plain Cement Finish
4. Carpet Tiles including adhesive (Auditorium)
5. 50mm Concrete Topping for Tiles
6. Plastering Guide/ Grooves

B. WALL FINISHES

1. 600mm x 600mm Unglazed Ceramic Tiles including tile adhesive
2. 300mm x 300mm Unglazed Ceramic Tiles including tile adhesive
3. 50mm concrete Topping with Plain Cement Finish
4. 50mm Concrete Topping for Tiles
5. Plastering Guide/ Grooves

C. PAINTING WORKS

1. **Paint Materials.** All types of paint material and other related products shall be subject to test as to material composition by the Bureau of Research and Standard, DPWH or the National Institute of Science and Technology
2. **Tinting Colors.** Tinting colors shall be first grade quality pigment ground in alkylid resin that disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body
3. **Skim coat.** Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
4. **Paint Schedule.**
 - a. **Exterior Masonry Wall** (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish
 - b. **Interior Masonry Wall** (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish
 - c. **Interior Dry Wall**
 - i. 1 coat primer, 2 coats latex paint finish
 - d. **Ceiling Boards**
 - i. 1 coat primer, 2 coats latex paint finish
 - e. **Slab Soffit**
 - i. 1 coat primer, 2 coats latex paint finish
 - f. **Metal / Steel Surfaces**
 - i. 1 coat primer, 2 coats epoxy enamel finish
1. **Surface Preparation.** All surfaces shall be in proper condition to receive the finish. Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be sealed with natural wood filler. Nail holes, cracks or defects shall be carefully puttied after the first coat, matching the color of paint.

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

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

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

In addition, the Contractor shall undertake the following:

- a. Voids, cracks, nick etc. will be repaired with proper patching material and finished flush with surrounding surfaces
 - b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer
 - c. Painting and varnishing works shall not be commenced when it is too hot or cold.
 - d. Allow appropriate ventilation during application and drying period
 - e. All hardware will be fitted and removed or protected prior to painting and varnishing works.
- ii. **Application.** Paints when applied by brush shall become non-fluid, thick enough to lay down as adequate film of wet paint. Brush marks shall have flowed out after application of paint.

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

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

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

- iv. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- v. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- vi. All surfaces including masonry wall shall be thoroughly cleaned, puttled, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- vii. 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.
- viii. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper

D. CEILING FINISHES

6mm thick Fiber Cement Board with complete framing and accessories.

E. DOORS & WINDOWS

Follow as per approved plan and specifications.

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:
 - 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.
 - 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.
 - 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
 - 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/storays 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. CONDUITS, BOXES AND FITTINGS

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

materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES

1. This item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
2. Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
3. Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional splices.
4. All conductors of convenience outlets and lighting branch circuit homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panel boards shall not be smaller than 3.5 mm but all homeruns to panel board more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
5. All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
6. All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
7. No splices or joints shall be permitted in either feeder or branch conductors except within outlet boxes or accessible junction boxes or pull boxes. All joints in branch circuit wiring shall be made mechanically and electrically secured by approved splicing devices and taped with rubber and PVC tapes in a manner which will make their insulation as that of the conductor.
8. All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
9. When more than one switch or device is indicated in a single location, gang plate shall be used.

C. POWER LOAD CENTER, SWITCHGEAR AND PANEL BOARDS

1. This item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgear and distribution panel boards at the location shown on the approved Plans complete with transformer, circuit breakers, cabinets and all accessories, completely wired and ready for service.
2. All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
3. **Power Load Center Unit Substation.** The Contractor shall furnish and install an indoor-type Power Load Center Unit Substation at the location shown on the approved Plans if required. It shall be totally metal-enclosed, dead front and shall consist of the following coordinated component parts:

- a. **High Voltage Primary Section.** High voltage primary incoming line section consisting of the following parts and related accessories:

- i. One (1) Air-filled Interrupter Switch, 2-position (open-close) installed in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interlock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
- ii. Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.
- iii. One (1) set of high voltage potheads or 3-conductor cables or three single conductor cables.
- iv. Lightning arresters shall be installed at the high voltage cubicle if required.

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

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

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

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

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

- c. **Low Voltage Switchboard Section.** The low-voltage switchboard shall be standard modular-unitized units, metal-built, dead front, safety type construction and shall consist of the following.

- i. **Switchboard Housing.** The housing shall be heavy gauge steel sheet, dead front type, gray enamel finish complete with frame supports, steel bracings, steel sheet panel boards, removable rear plates, copper busbars, and all other necessary accessories to insure sufficient mechanical strength and safety. It shall be provided with grounding bolts and clamps.
- ii. **Secondary Metering Section.** The secondary metering section shall consist of one (1) ammeter, AC, indicating type; one (1) voltmeter, AC, indicating type, one (1) ammeter transfer switch for 3-phase; one (1) voltmeter transfer switch for 3-phase; and current transformers of suitable rating and capacity.

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

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

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

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

Circuit breakers shall each be of the indicating type, providing 'ON' - 'OFF' and 'TRIP' positions of the operating handles and shall each be provided with nameplate for branch circuit designation. The circuit breaker shall be so designed that an overload or short on one pole automatically causes all poles to open.

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

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

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

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

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

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

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

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

- D. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- E. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.

- F. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- G. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen
- H. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

I. PANEL BOARDS

1. Fabricate and test panel boards 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
2. Enclosures: Flush, Surface, Flush- and surface-mounted cabinets
 - a. Rated for environmental conditions at installed location
 - i. Indoor Dry and Clean Locations NEMA, Type 1.
 - ii. Outdoor Locations. NEMA, Type 3R.
 - iii. Kitchen and Wash-Down Areas. NEMA, Type 4X, stainless steel.
 - iv. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 12.
 - v. Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 5R.
 - b. Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - c. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
 - d. Skirt for Surface-Mounted Panel boards: Same gauge and finish as panel board front with flanges for attachment to panel board, wall, and ceiling or floor.
 - e. Gutter Extension and Barner: Same gage and finish as panel board enclosure integral with enclosure body. Arrange to isolate individual panel sections.
 - f. Finishes.
 - i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
 - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
 - g. Directory Card: Inside panel board door, mounted in transparent card holder metal frame with transparent protective cover.
3. Incoming Mains Location: Top or Bottom
4. Phase, Neutral, and Ground Buses:
 - a. Material: Hard-drawn copper, 98 percent conductivity.
 - b. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.

- c. Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads



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Planning and Programming Division



JOCELYN A. NAONG
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Republic of the Philippines
Quezon City

CITY ENGINEERING DEPARTMENT

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PROJECT NAME: PROPOSED REHABILITATION OF PROJECT 8 DAYCARE CENTER
LOCATION: BARANGAY PROJECT 8, DISTRICT 1, QUEZON CITY

TECHNICAL SPECIFICATIONS **QUEZON CITY INFRASTRUCTURE PROJECT**

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.

III. CIVIL / STRUCTURAL WORKS

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 1/2" 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 1/2" 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.

IV. ARCHITECTURAL WORKS

A. 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.

Prepared by:

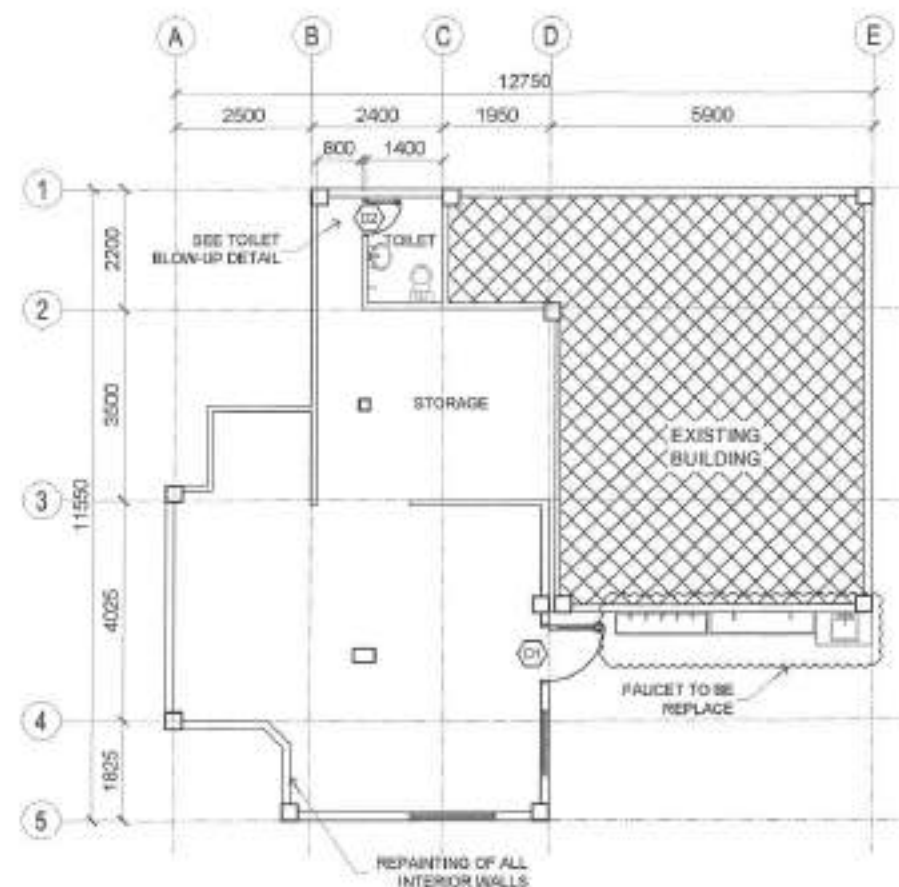
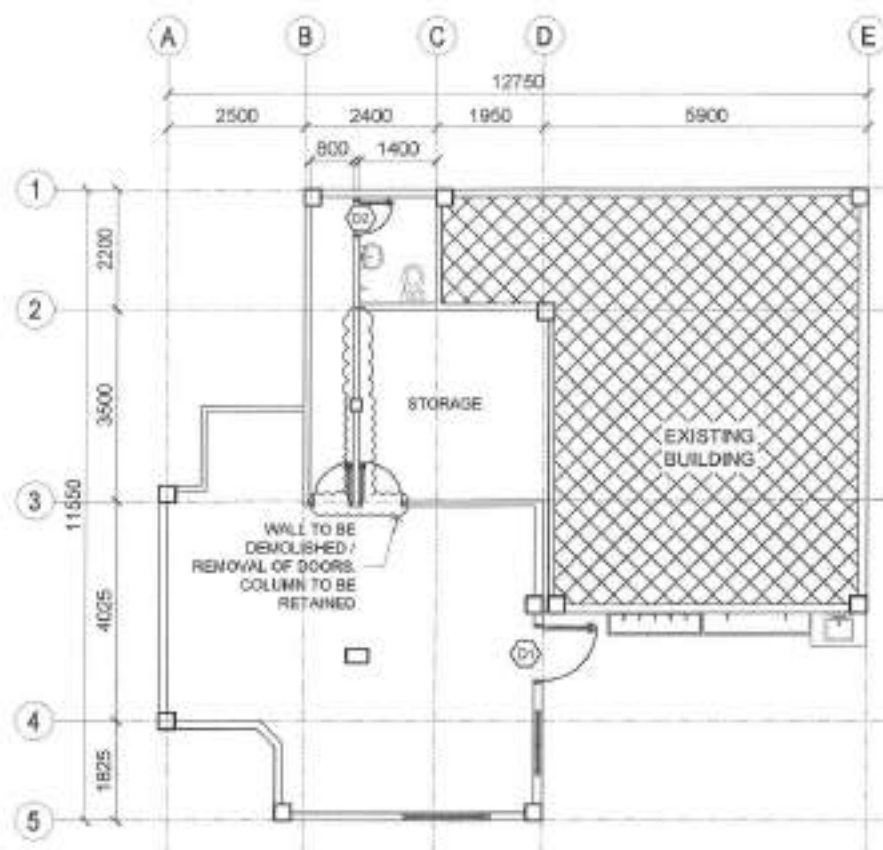
Checked by:


VERGEL JEROME A. MAPILI
 Planning and Programming Division


JOCELYNA. 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.]



1 EXISTING GROUND FLOOR PLAN

SCALE: 1:100 METERS

2 PROPOSED GROUND FLOOR PLAN

SCALE: 1:100 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE
**PROPOSED REHABILITATION OF
BARANGAY BAGONG PAG-ASA
DAYCARE CENTER**

LOCATION
BARANGAY BAGONG PAG-ASA DISTRICT 1, QUEZON CITY

DRAWN BY: EME

DATE: APR 06, 2021

CHECKED BY: JAM

REVISION NO:

SUBMITTED BY

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

RECOMMENDATION APPROVAL:

ENGR. ISAGANI R. VERZOSA, JR.
DEPUTY CITY ENGINEERING COMMISSIONER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTÉ
CITY MAYOR, QUEZON CITY

SHEET CONTENT

EXISTING GROUND
FLOOR PLAN
PROPOSED GROUND
FLOOR PLAN

SHEET NO.

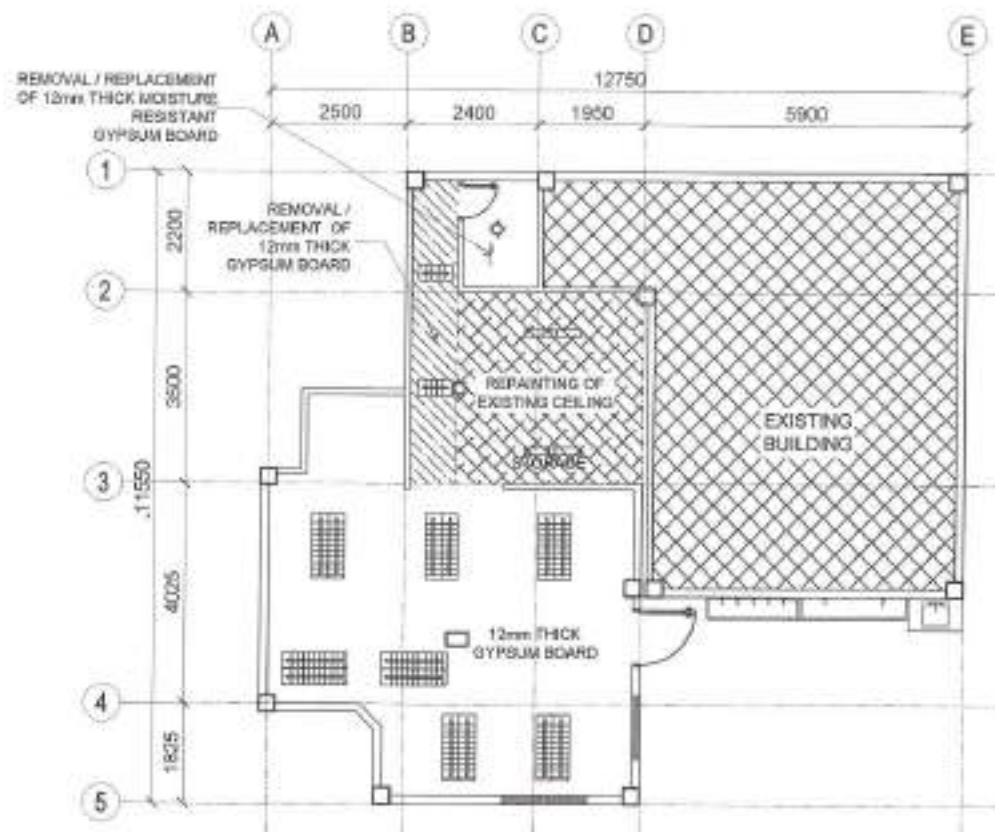
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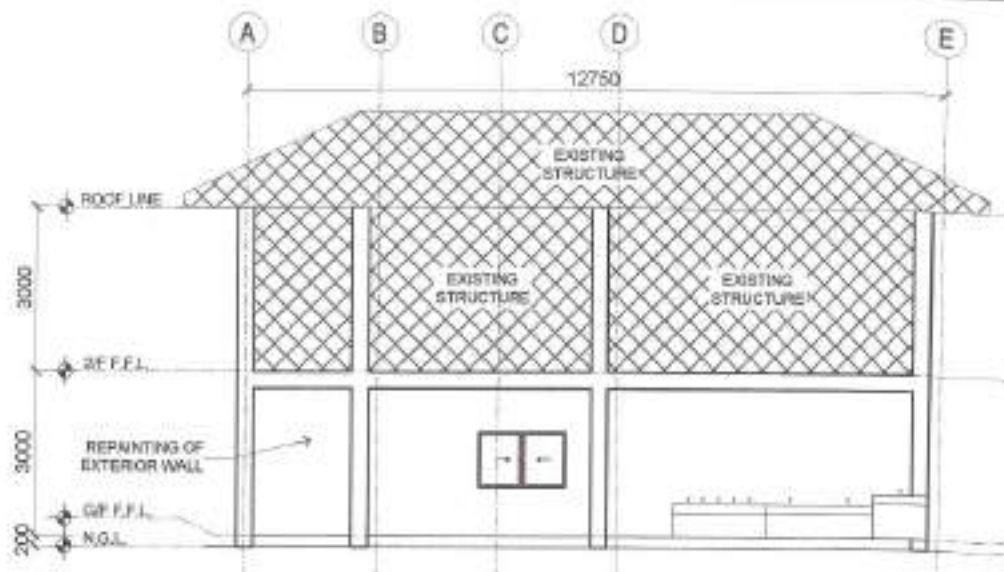
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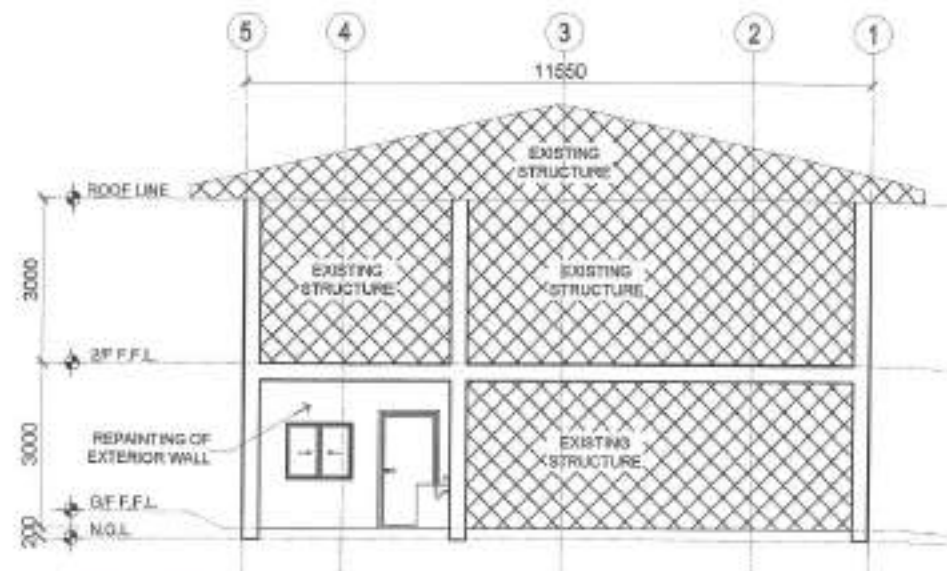
1 GROUND FLOOR REFLECTED CEILING PLAN

SCALE: 1:100 METERS



1 FRONT ELEVATION

SCALE: 1:100 METERS



1 RIGHT SIDE ELEVATION

SCALE: 1:100 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
BARANGAY BAGONG PAG-ASA
DAYCARE CENTER**

LOCATION:
BARANGAY BAGONG PAG-ASA DISTRICT 1, QUEZON CITY

DRAWN BY: GME
DATE: AUG. 02, 2021
CHECKED BY: JUV
REVISIONS:

REVISIONS:

SUBMITTED BY:

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

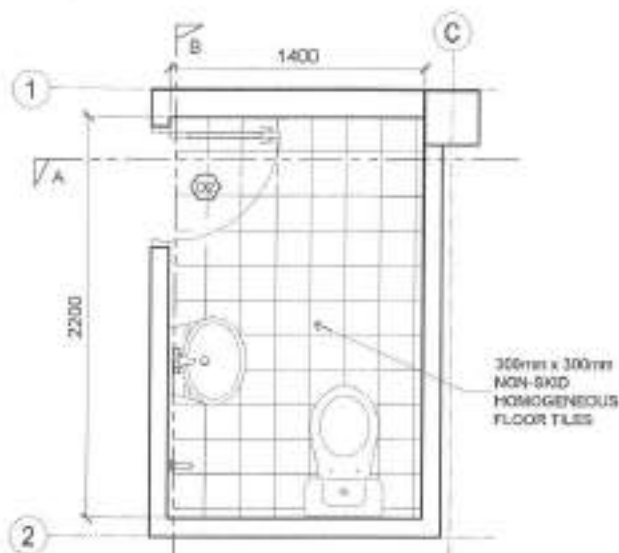
RECOMMENDING OFFICIAL:

ENGR. ISAGANI R. VERZOSA, JR.
CH. CITY ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA S. BELMONTE
CITY MAJOR, QUEZON CITY

SHEET CONTENT:
GROUND FLOOR
REFLECTED CEILING
FRONT ELEVATION
RIGHT SIDE ELEVATION

SHEET NO.
AR-03
03/06



NOTE: PLUMBING FIXTURES TO BE REPLACED

PLAN VIEW

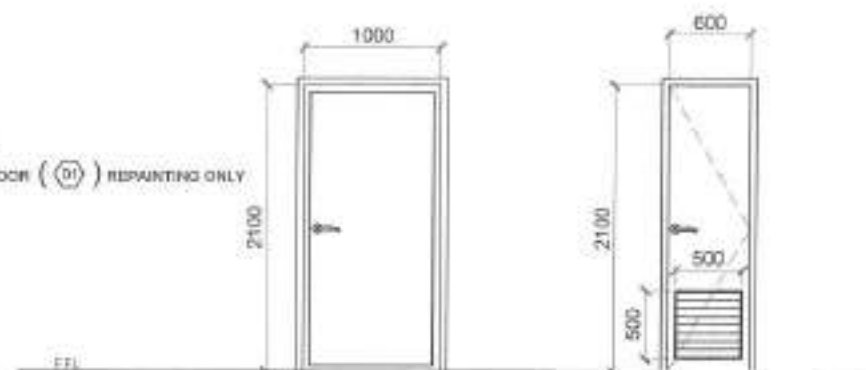


SECTION - A



SECTION - B

NOTE:
DOOR (D1) REPAINTING ONLY



| NAME | (D1) | (D2) |
|-------------|-----------------------|---------------------------|
| NO. OF SETS | 1 | 1 |
| DESCRIPTION | SOLID WOOD PANEL DOOR | PVC FLUSH DOOR W/ LOUVERS |

3 TOILET BLOW-UP DETAIL

SCALE: 1:30 METERS

4 DOORS SCHEDULE

SCALE: 1:30 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
BARANGAY BAGONG PAG-ASA
DAYCARE CENTER**

LOCATION:
BARANGAY BAGONG PAG-ASA DISTRICT 1, QUEZON CITY

DRAWN BY: CHS
DATE: AUG 02, 2021
CHECKED BY: JMN
REVISION NO:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

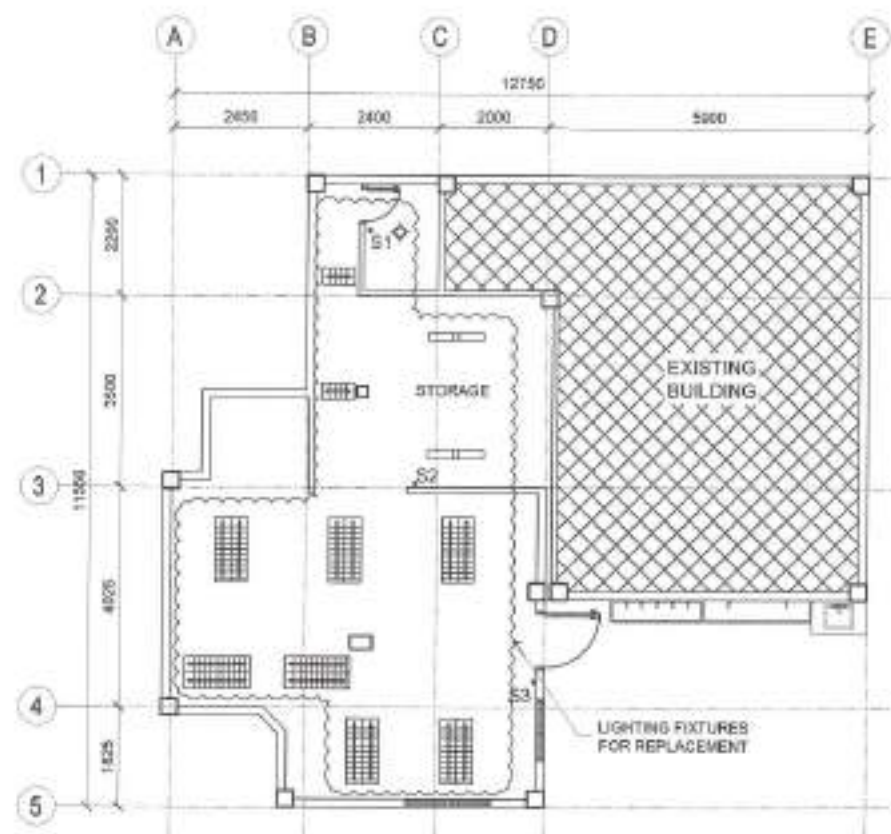
ENGR. ISAGANI R. VERZOSA, JR.
CH, CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. RA. JOSEFINA G. BELMONTE
CITY MAYOR, QUEZON CITY

SHEET CONTENT:
TOILET BLOW-UP
DETAIL
DOORS SCHEDULE

SHEET NO.
AR-04
04/06



1 | PROPOSED REHABILITATION OF GROUND FLOOR LIGHTING LAYOUT (FOR REPLACEMENT)

SCALE: 1:100 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
BARANGAY BAGONG PAG-ASA
DAYCARE CENTER**

LOCATION:
BARANGAY BAGONG PAG-ASA DISTRICT 1, QUEZON CITY

DRAWN BY: JMC
DATE: MAR. 02, 2021
CHECKED BY: JMC
REVISION NO.:

SUBMITTED BY:

ENR. LEO S. DEL ROSARIO
HEAD, PLANNING AND PROGRAMMING DIVISION

RECOMMENDED APPROVAL:

ENR. ISABELA R. VERZOSA, JR.
CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

SHEET CONTENT:
PROPOSED REHABILITATION OF
GROUND FLOOR LIGHTING LAYOUT
(FOR REPLACEMENT)

SHEET NO:
EL-02
06/06

THE SITE



THE SITE



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| AR-4 | SECTION B-B OF PROPOSED FACILITY |
| AR-5 | SECTION C-C OF PROPOSED FACILITY |
| AR-6 | SECTION D-D OF PROPOSED FACILITY |

STRUCTURAL

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ELECTRICAL

| | |
|------|----------------------------------|
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| EL-3 | SECTION B-B OF PROPOSED FACILITY |
| EL-4 | SECTION C-C OF PROPOSED FACILITY |

1 LOCATION MAP

2 LOCATION MAP



3 PERSPECTIVE

NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULILIT DAY CARE CENTER

LOCATION:

BARANGAY STO. CRISTO, DISTRICT 1, QUEZON CITY

DRAWN BY:

DATE:

DESIGNED BY:

REVISION NO.:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
PRINC. PLANNER & PROJECT MANAGER

RECOMMENDING APPROVAL:

ENGR. MADAM R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

APPROVED BY:

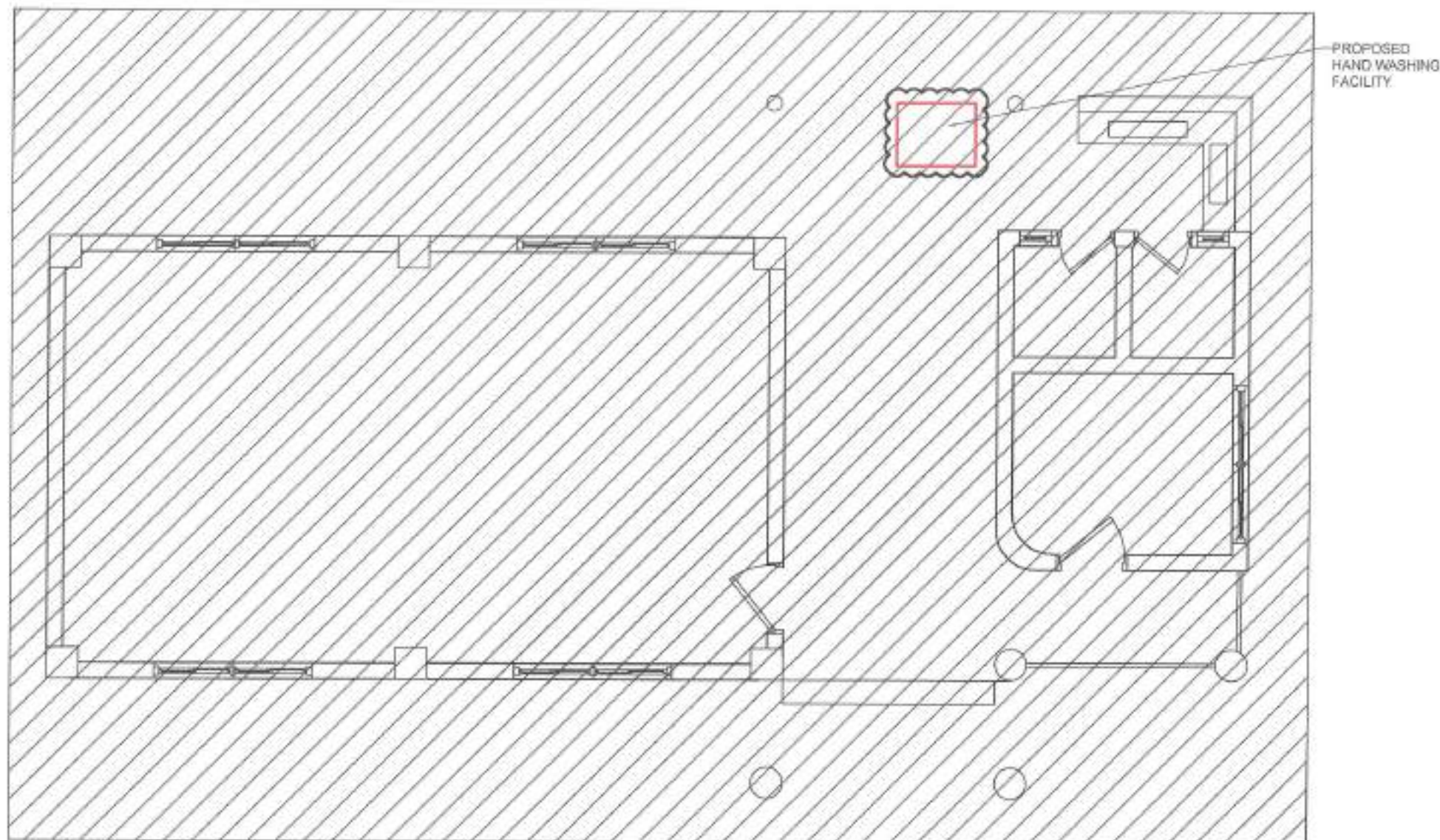
HON. MA. JOSEFINA G. BELMONTE
DTY. MAYOR

SHEET CONTENT

LOCATION MAP
VICINITY MAP
PERSPECTIVE
TABLE OF CONTENTS

SHEET NO.

AR-1
1/14



1 SITE DEVELOPMENT



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULILIT DAY CARE CENTER

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

DRAWN BY: *J. J. R.*

DATE:
DESIGNED BY: *J. J. R.*

REVISION NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. ISAAC R. VERZOSA, JR.
DEPUTY CITY ENGINEERING DEPARTMENT

APPROVED BY:

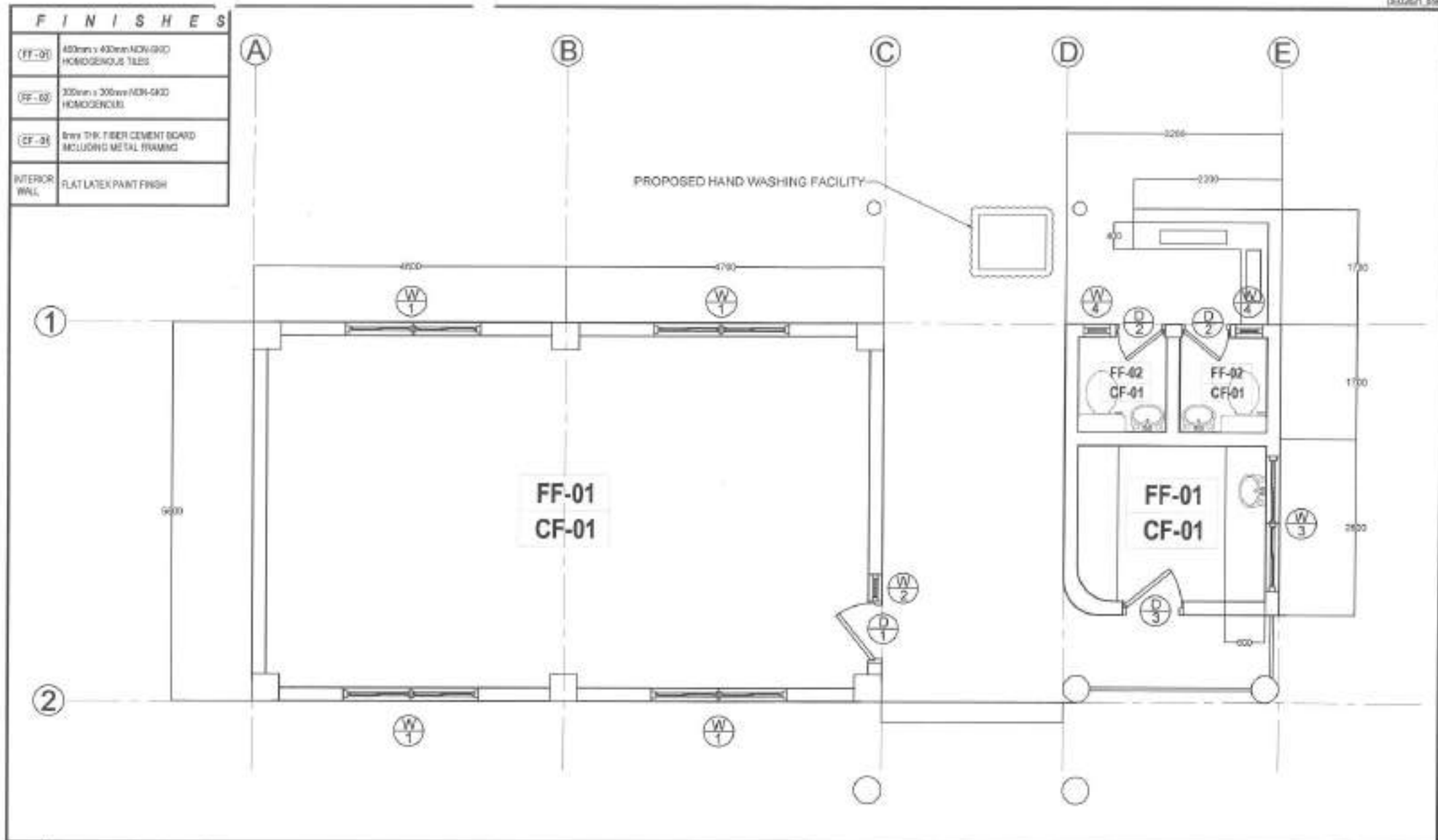
HON. MA JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT

SITE DEVELOPMENT
PLAN

SHEET NO.

AR-2
214



1 GROUND FLOOR PLAN

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULILIT DAY CARE CENTER

LOCATION:

BARANGAY STO. CRISTO, DISTRICT 1, QUEZON CITY

DRAWN BY:

DATE:

DESIGNED BY: JLP

REVISION NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. USAPANI R. VERZOSA, JR.
DEPUTY CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT

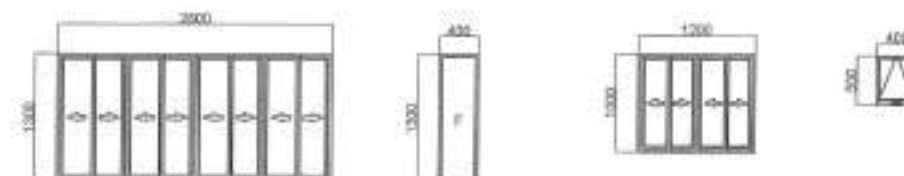
GROUND FLOOR
PLAN

SHEET NO.

AR-3
314



| DESCRIPTION | | | |
|------------------|--|--|--|
| SPEC | SWING TYPE, FLUSH HOLLOW CORE DOOR, PAINTED FINISH (GITTEN WHITE) | SWING TYPE, PVC DOOR, WITH 450mm x 250mm LOUVER, PAINTED FINISH (GITTEN WHITE) | SWING TYPE, FLUSH HOLLOW CORE DOOR, PAINTED FINISH (GITTEN WHITE) |
| HARDWARE GLAZING | COMPLETE ACCESSORIES, DOOR KNOB, LEVER-TYPE SATIN STAINLESS FINISH | COMPLETE ACCESSORIES, DOOR KNOB, LEVER-TYPE SATIN STAINLESS FINISH | COMPLETE ACCESSORIES, DOOR KNOB, LEVER-TYPE SATIN STAINLESS FINISH |



| DESCRIPTION | | | | |
|------------------|---|---|---|--|
| SPEC | SLIDING WINDOW, 6mm THK CLEAR TEMPERED GLASS ON WHITE COLOR POWDER COATED ALUMINUM FRAMES | FIXED WINDOW, 6mm THK CLEAR TEMPERED GLASS ON WHITE COLOR POWDER COATED ALUMINUM FRAMES | SLIDING WINDOW, 6mm THK CLEAR TEMPERED GLASS ON WHITE COLOR POWDER COATED ALUMINUM FRAMES | AWNING WINDOW, 6mm THK CLEAR TEMPERED GLASS ON WHITE COLOR POWDER COATED ALUMINUM FRAMES |
| HARDWARE GLAZING | PROVIDE WITH COMPLETE ACCESSORIES | PROVIDE WITH COMPLETE ACCESSORIES | PROVIDE WITH COMPLETE ACCESSORIES | PROVIDE WITH COMPLETE ACCESSORIES |

1 SCHEDULE OF DOORS AND WINDOWS

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULIT DAY CARE CENTER
LOCATION:
BARANGAY STD. CRISTO, DISTRICT 1, QUEZON CITY

DRAWN BY:
SRS
CHECKED BY: J.F.A.
REVISION NO.:

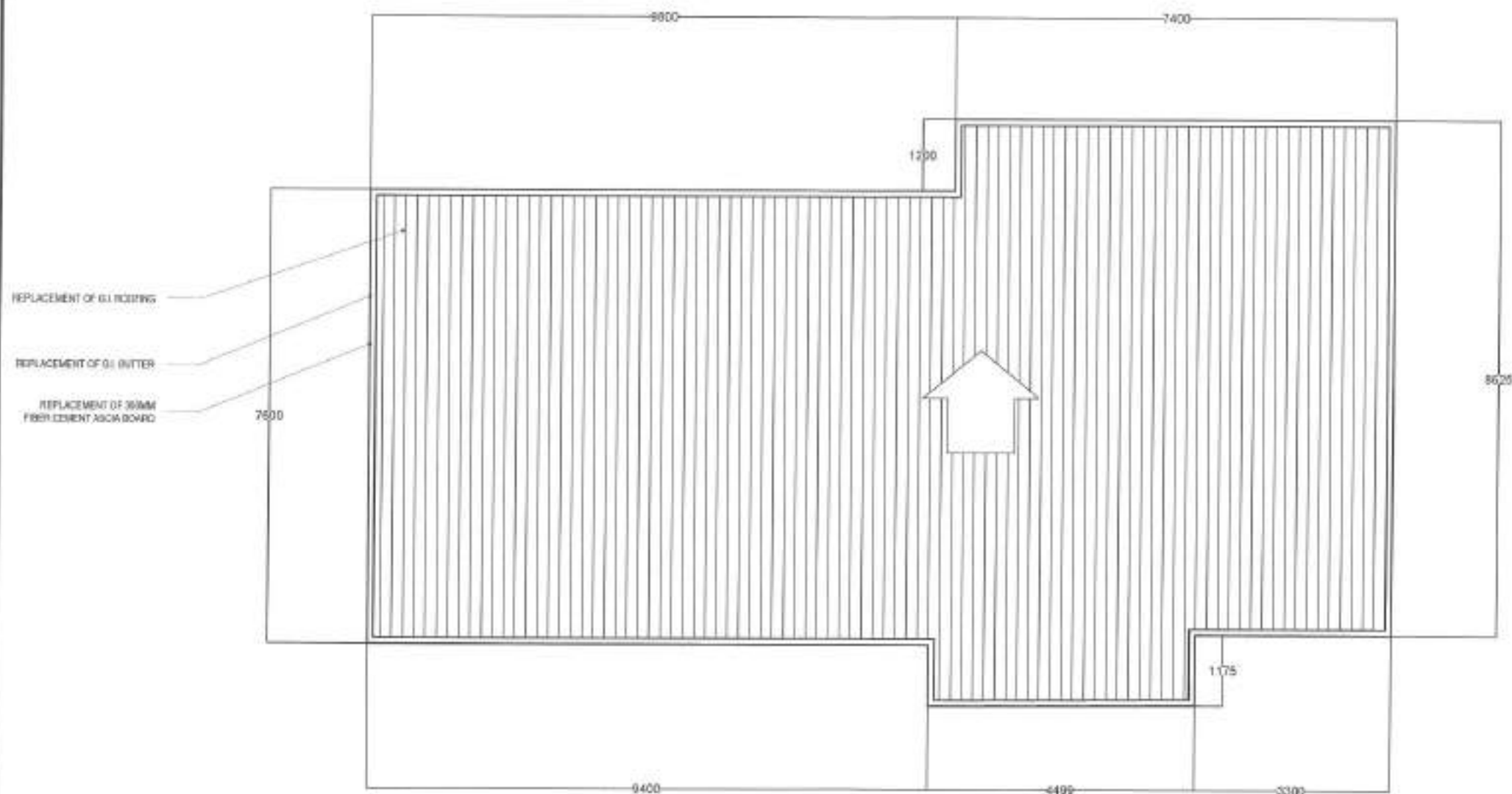
SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & REGULATORY DIVISION

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

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

SHEET CONTENT
SCHEDULE OF
DOORS AND
WINDOWS

SHEET NO.
AR-4
414



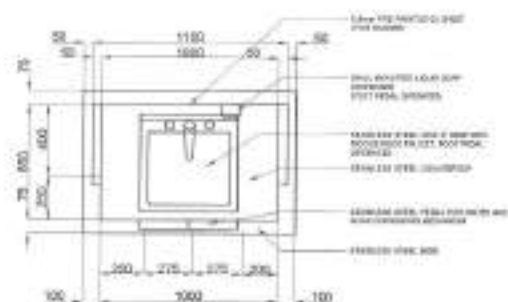
1 ROOF PLAN

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

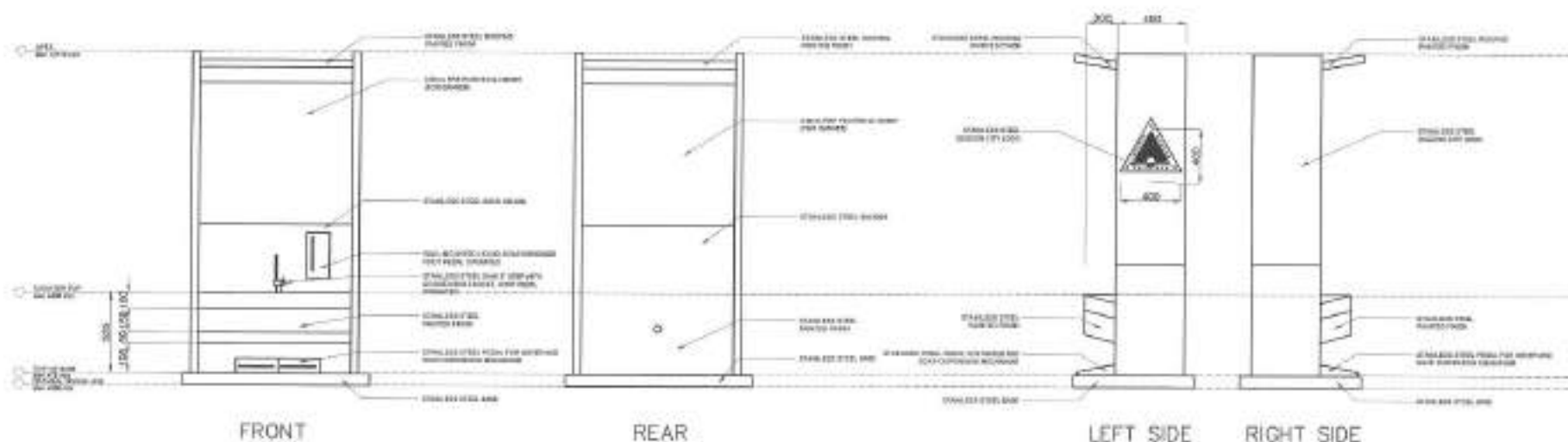
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|--|----------------------|--------------------------|---------------------------------|----------------------------------|---------------|-------------|
| PROJECT TITLE: | DESIGNED BY: | SUBMITTED BY: | RECOMMENDING APPROVAL: | APPROVED BY: | SHEET CONTENT | SHEET NO. |
| PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF BAHAY BULILIT DAY CARE CENTER | DATE: | ENGR. LEO S. DEL ROSARIO | ENGR. ISAGANI R. VERZOSA, JR. | HON. MA. JOSEFINA G. BELMONTE | ROOF PLAN | AR-5 514 |
| LOCATION: BARANGAY STD. CRESTO, DISTRICT 1, QUEZON CITY | DESIGNED BY: J.F. | REVISION NO.: | HEAD PLANNING & PROJECT CONTROL | SEC. CITY ENGINEERING DEPARTMENT | | |



PLAN

1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE: 1:30MTS



2 ELEVATIONS

SCALE: 1:30MTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULIT DAY CARE CENTER

LOCATION:

BARANGAY SITO, CRISTO, DISTRICT 1, QUEZON CITY

DRAWN BY:

JRB

CHECKED BY:

JRB

REVISIONS:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
RMC JUNIOR ENGINEER

RECOMMENDING APPROVAL:

ENGR. RICHARD R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT

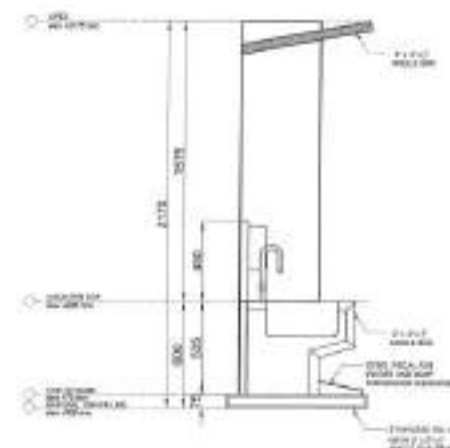
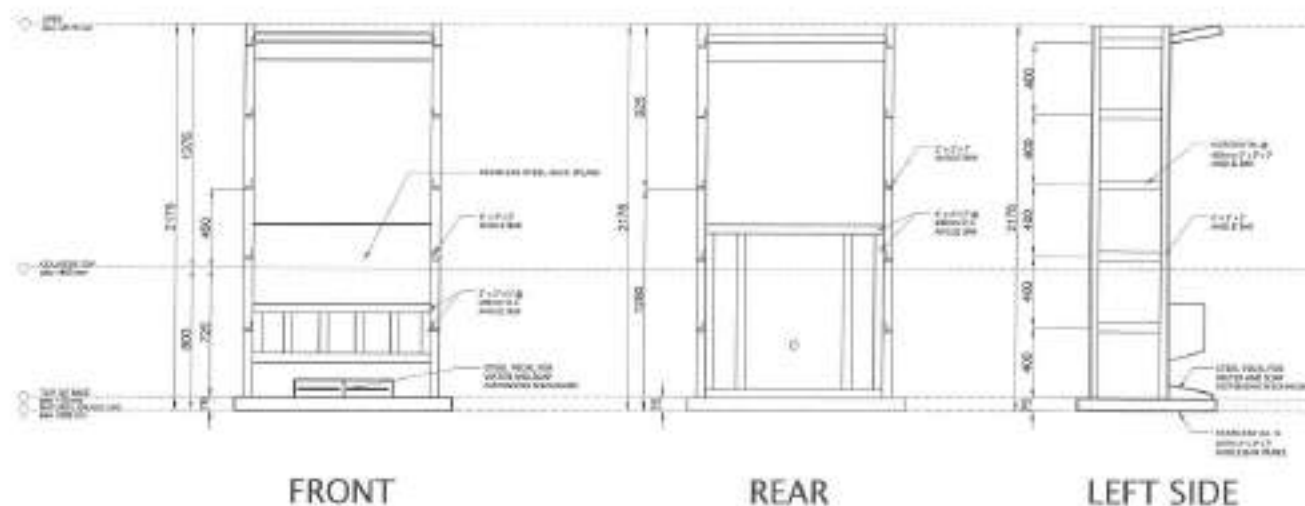
SINGLE SINK PORTABLE
HAND WASHING
STALL PLAN
ELEVATIONS

SHEET NO.

AR-6
6.14

ROOF PLAN

SCALE: 1:30MTS



2 ELEVATIONS

SCALE: 1:30MTS

| | |
|---|-----------------|
| 3 | TYPICAL SECTION |
|---|-----------------|

SCALE: 1:30MTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULIT DAY CARE CENTER

BARANDAY STO. CRISTO, DISTRICT 1, QUEZON CITY

Love

ACCEPTED BY:

REVISADO

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
RSE, EARTH/PROGRAMS/ENCON

RECOMMENDING APPROVAL:

ENGR. ISAGANI R. VERZOSA, JR.
D. CIVIL ENGINEERING DEPARTMENT

ADDRESSED BY:

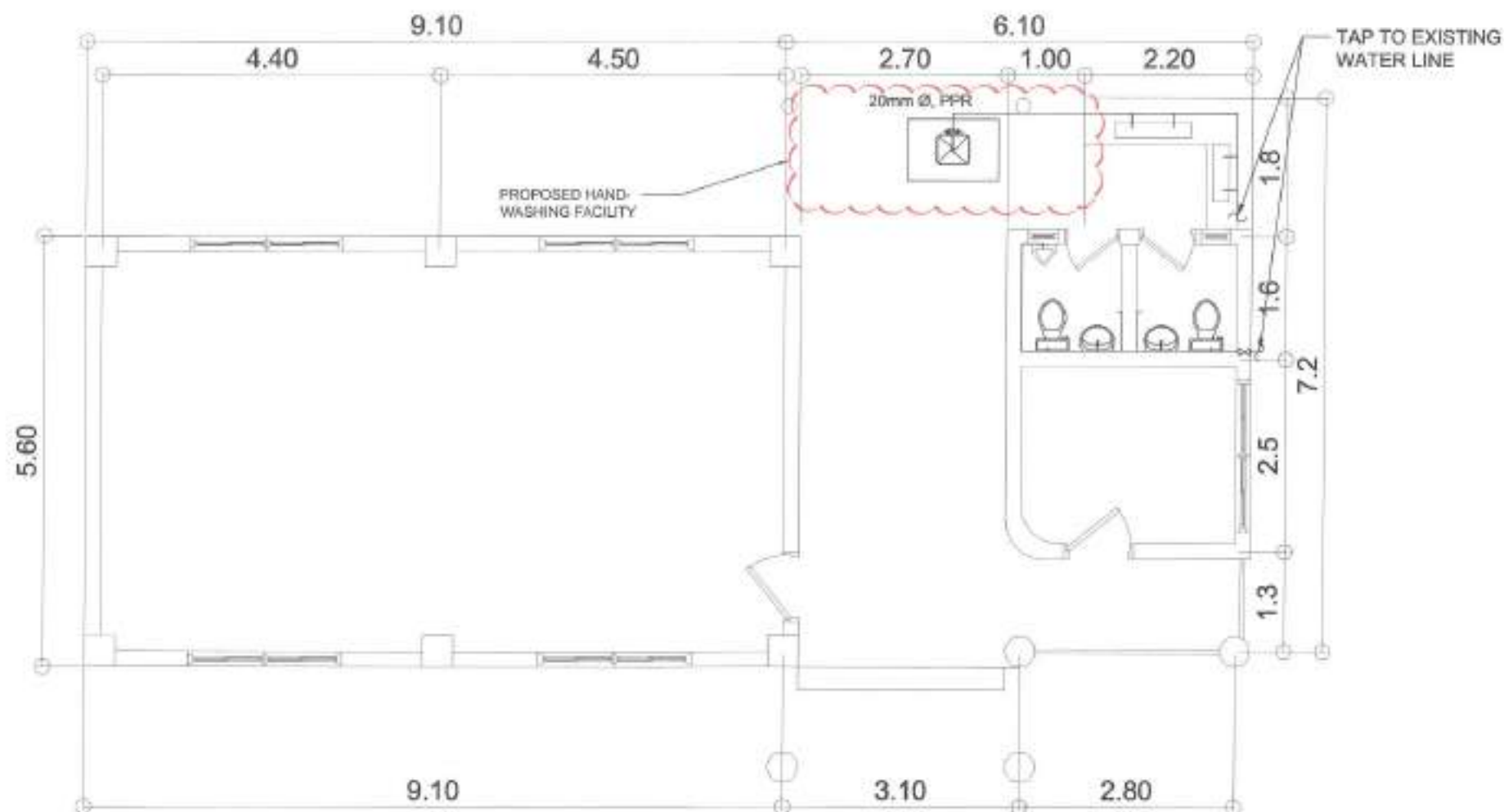
HON. MA JOSEFINA G. BELMONTE

SHORT CONTENT

SINGLE BIN PORTABLE
HAND WASHING STATION
PLAN
ELEVATIONS
TYPICAL SECTION

Sweet No.

ST-2
8 14



1 GROUND FLOOR WATER LINE LAY-OUT

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULILIT DAY CARE CENTER

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

DRAWN BY:

DATE:

CHECKED BY:

REVISIONS:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
REG. PROFESSIONAL ENGINEER

RECOMMENDING APPROVAL:

ENGR. ISAGANI R. VERZOSA, JR.
C.O. OF ENGINEERING DEPARTMENT

APPROVED BY:

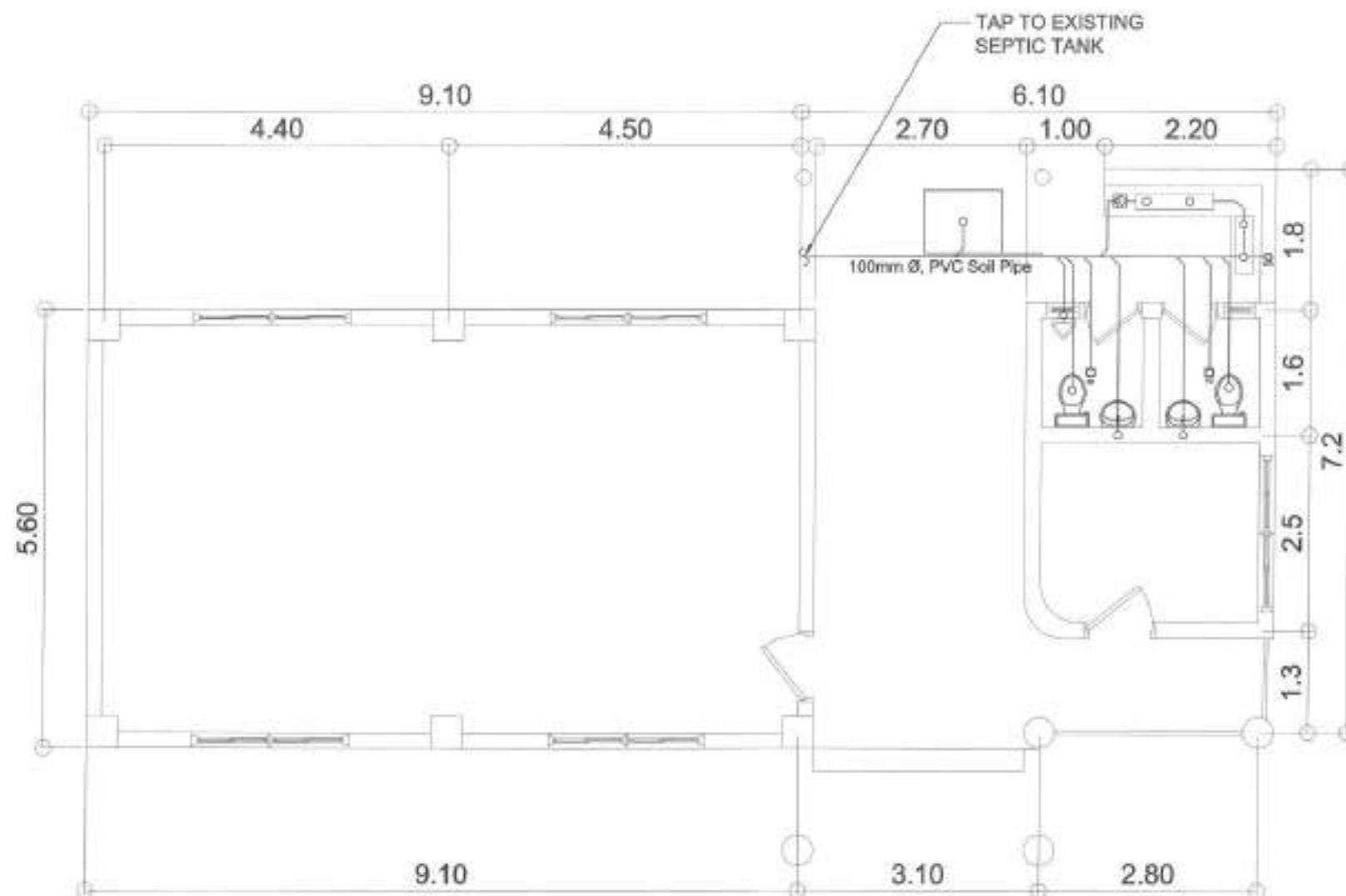
HON. MA. JOSEFINA G. BELMONTTE
CITY ENGINEER

SHEET CONTENT

GROUND FLOOR
WATER LINE LAY-OUT

SHEET NO.

PL-2
10/14



1 GROUND FLOOR SEWER LINE LAY-OUT

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULILIT DAY CARE CENTER

LOCATION:

BAGY, STO. CRISTO, DISTRICT 1, QUEZON CITY

DRAWN BY:

DATE:

CHECKED BY: J.A.H.

REVISION NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. RAMON R. VERZOSA, JR.
HEAD, CIVIL ENGINEERING DIVISION

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT

GROUND FLOOR
SEWER LINE LAY-OUT

SHEET NO.

PL-3
11/14

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./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. SIZE 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.

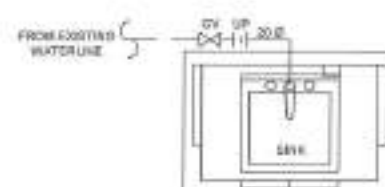
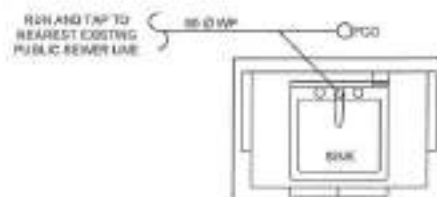
I. SEWER/WASTE AND VENT SYSTEM:



II. WATER DISTRIBUTION SYSTEM:



2 LEGENDS AND SYMBOLS



1 GENERAL NOTES

3 SINGLE SINK PORTABLE HAND WASHING SANITARY LINE

SCALE: 1:30MTS

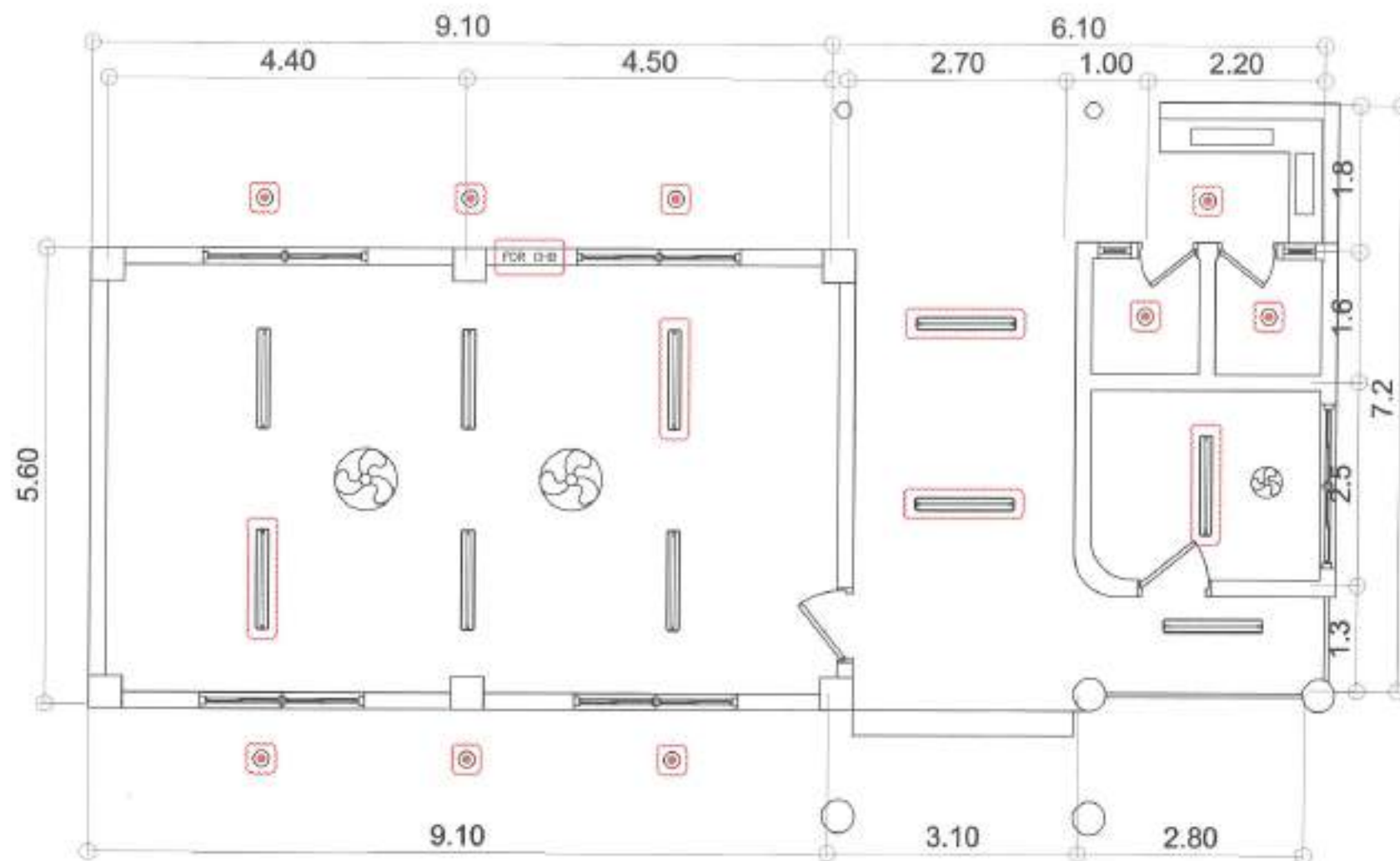
4 SINGLE SINK PORTABLE HAND WASHING WATER LINE

SCALE: 1:30MTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

| | | | | | | |
|--|---------------|------------------------------------|-------------------------------|------------------------------|---|---------------|
| PROJECT TITLE: | DRAWN BY: | SUBMITTED BY: | RECOMMENDING APPROVAL: | APPROVED BY: | SHEET CONTENT | SHEET NO. |
| PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF BAHAY BULILIT DAY CARE CENTER | DATE: | ENGR. LEO S. DEL ROSARIO | ENGR. ISABANI R. VERZOSA, JR. | HON. MA JOSEFINA G. BELMONTE | GENERAL NOTE LEGEND AND SYMBOLS SINGLE SINK PORTABLE HAND WASHING SANITARY LINE SINGLE SINK PORTABLE HAND WASHING WATER LINE | PL-4 12/14 |
| LOCATION: BARANGAY STD. CRISTO, DISTRICT 1, QUEZON CITY | DESIGNED BY: | HEAD, PLANNING & PROJECTS DIVISION | SC. ENGINEERING CONSULTANT | CITY MAYOR | | |
| | REVISION NO.: | | | | | |



1 GROUND FLOOR LIGHTING LAYOUT

SCALE: 1:100MTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF BAHAY BULILIT DAY CARE CENTER

LOCATION:

BRGY. STO. CRISTO, DISTRICT 1, QUEZON CITY

DRAWN BY:

DATE:

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMS GROUP

RECOMMENDING APPROVAL:

ENGR. ISAGANI R. VERZOSA, JR.
HEAD, CIVIL ENGINEERING GROUP

APPROVED BY:

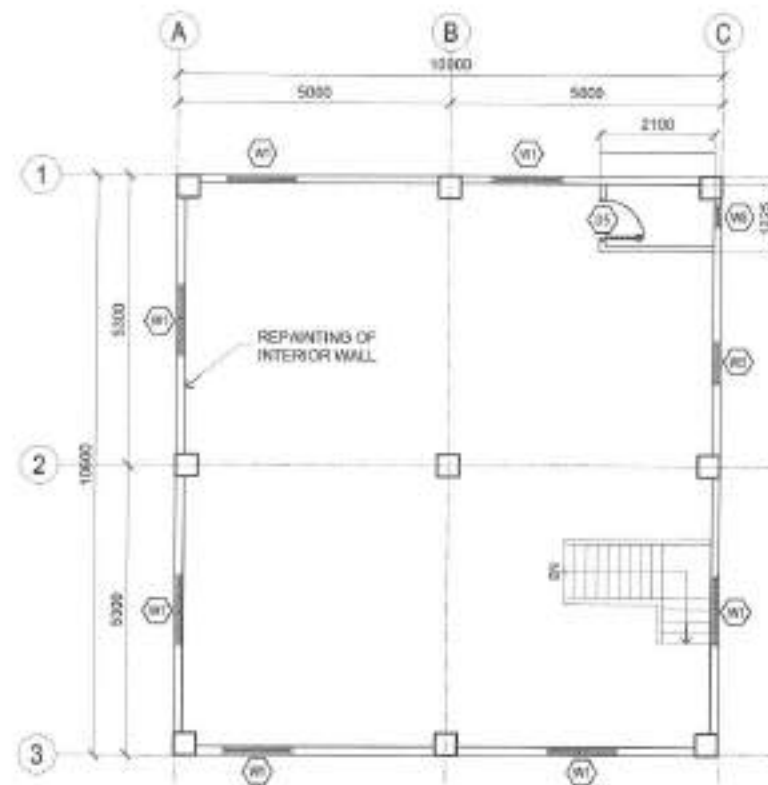
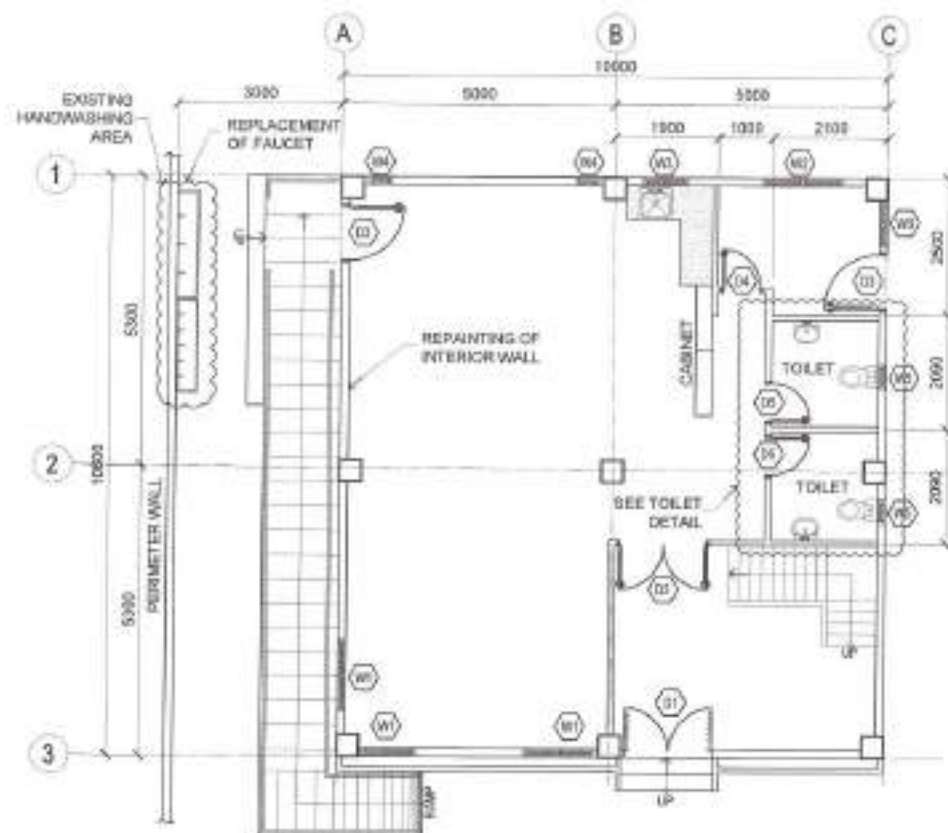
HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT:

AS SHOWN

SHEET NO.

EL-2
14/14



1 GROUND FLOOR PLAN

SCALE: 1:100 METERS

2 SECOND FLOOR PLAN

SCALE: 1:100 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
PROJECT 6 DAYCARE CENTER**

LOCATION:
BARANGAY PROJECT 6 DISTRICT 1, QUEZON CITY

DRAWN BY: **ENG. LEO S. DEL ROSARIO**
CHECKED BY: **ENG. LEO S. DEL ROSARIO**

REVISION NO.: 1

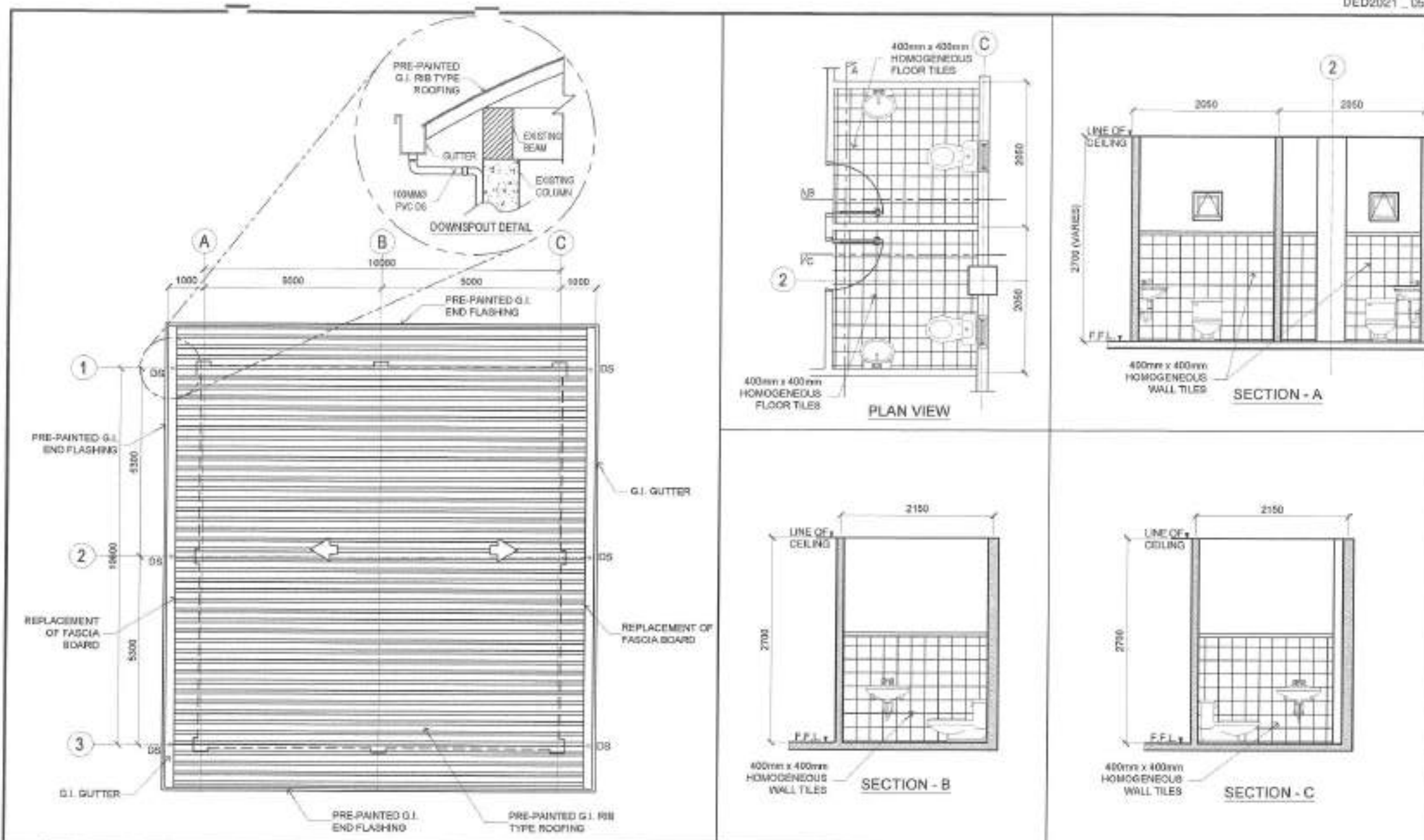
SUBMITTER:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:
ENGR. ISAGANI R. VERZOSA, JR.
DIR. OF ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER - QUEZON CITY

SHEET CONTENT:
GROUND FLOOR PLAN
SECOND FLOOR PLAN

SHEET NO.:
AR-02
02/08



1 ROOF PLAN

SCALE: 1:100 METERS

2 TOILET DETAILS

SCALE: 1:100 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF
PROJECT 6 DAYCARE CENTER

LOCATION:
BARANGAY PROJECT 6 DISTRICT 1, QUEZON CITY

DRAWN BY: DME

DATE: AUG. 02, 2021

CHECKED BY: JAY

REVISION NO.: 1

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. JOSEFINA R. VERZOSA, JR.
CITY ENGINEER (PLANNING)

APPROVED BY:

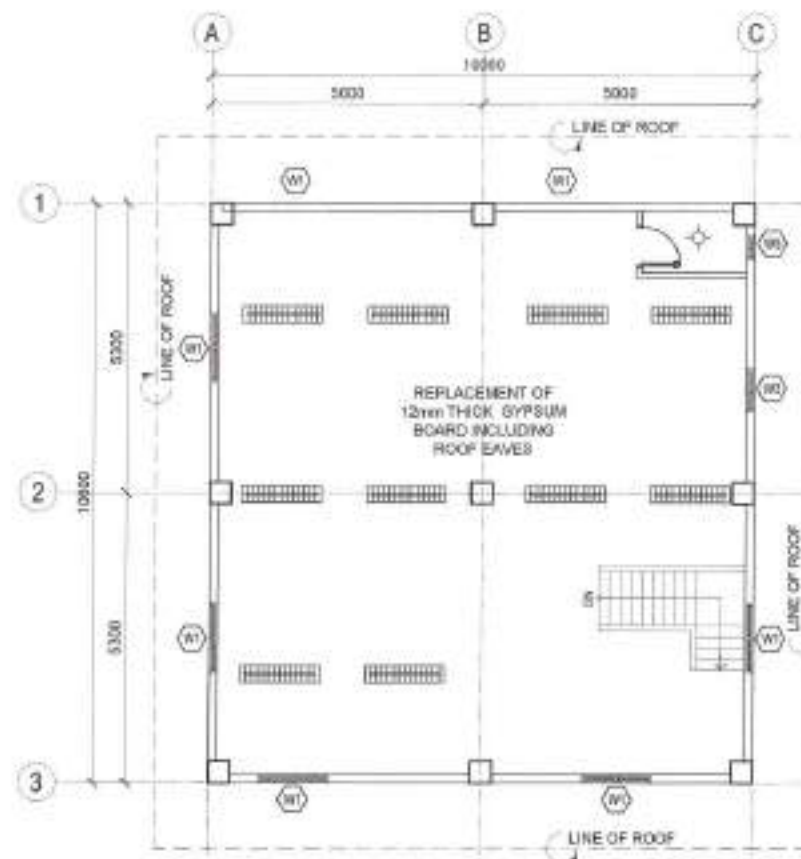
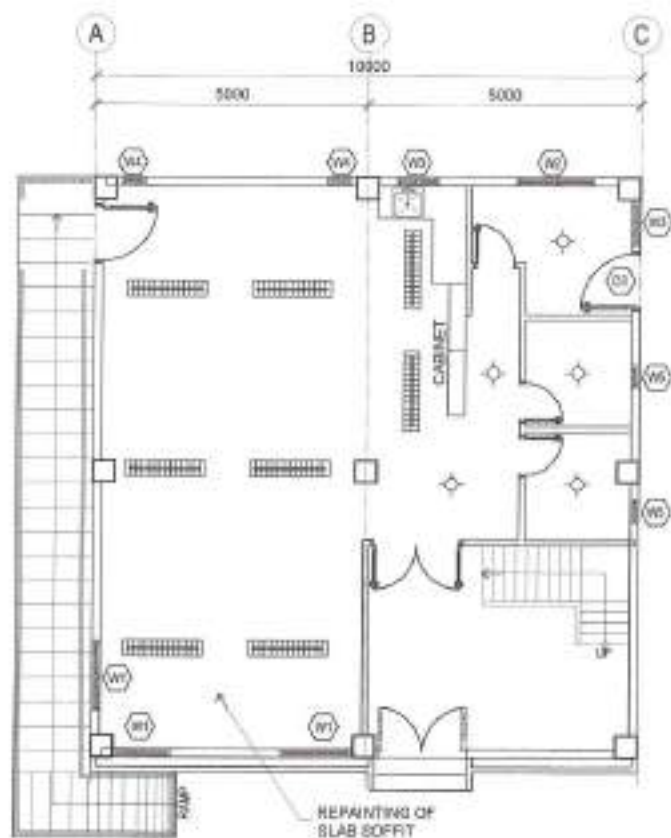
HON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER, QUEZON CITY

SHEET CONTENT:

ROOF PLAN
TOILET DETAILS

SHEET NO.

AR-03
03/08






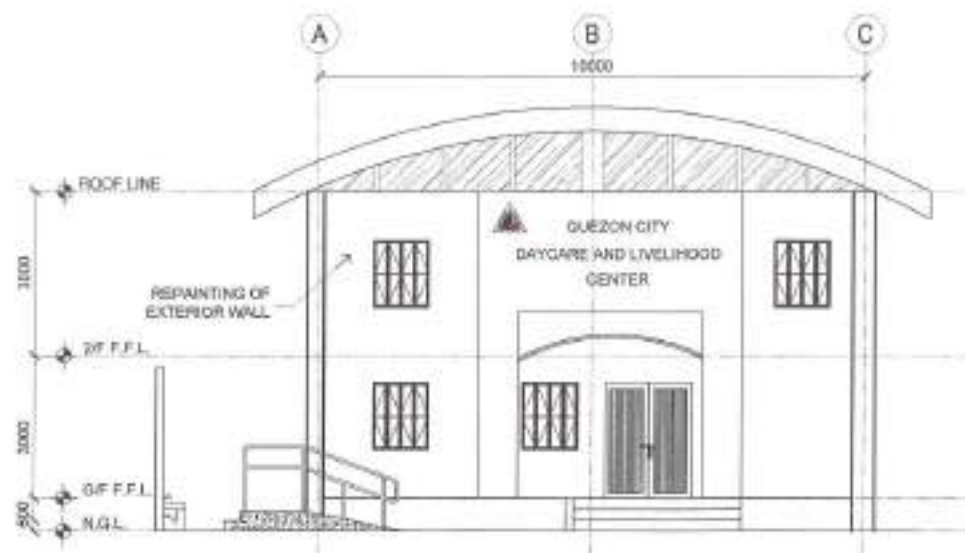
1 GROUND FLOOR REFLECTED CEILING PLAN

SCALE: 1:100 METERS

2 SECOND FLOOR REFLECTED CEILING PLAN

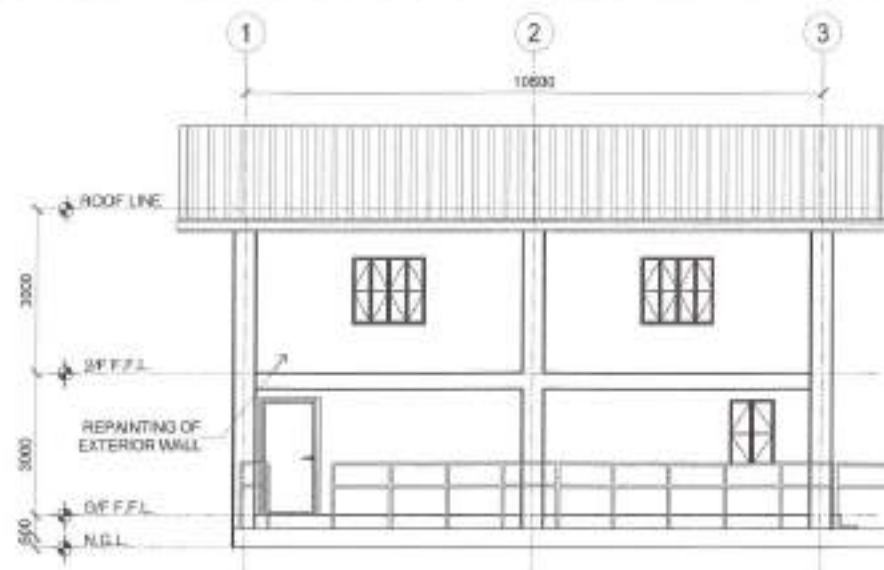
SCALE: 1:100 METERS

| | | | | | | | |
|--|---|--|--|---|--|--|-----------------------------|
|  <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE: | DRAWN BY: <u>ENR. LEO S. DEL ROSARIO</u> | SUBMITTED BY: | RECOMMENDING APPROVAL: | APPROVED BY: | SHEET CONTENT: | SHEET NO. |
| | PROPOSED REHABILITATION OF PROJECT 8 DAYCARE CENTER LOCATION: BARRANGAY PROJECT 8 DISTRICT 1, QUEZON CITY | DATE: AUG 05, 2021 CHECKED BY: <u>AM</u> REVISION NO.: 1 |  ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & DESIGN DIVISION |  ENGR. ISAGANI R. VERZOSA, JR. DEPUTY CITY ENGINEERING SUPERVISOR |  HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY | GROUND FLOOR REFLECTED CEILING PLAN SECOND FLOOR REFLECTED CEILING PLAN | AR-04 0408 |



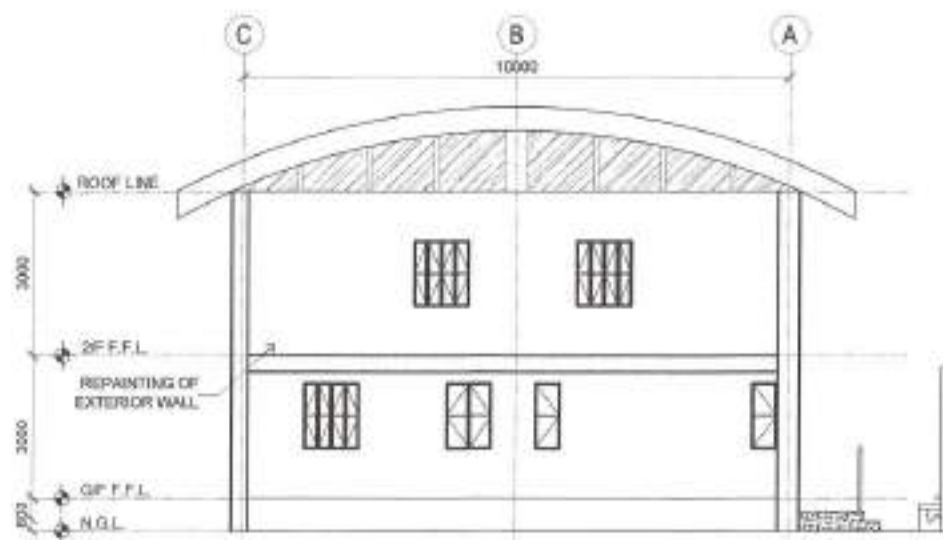
1 FRONT ELEVATION

SCALE: 1:100 METERS



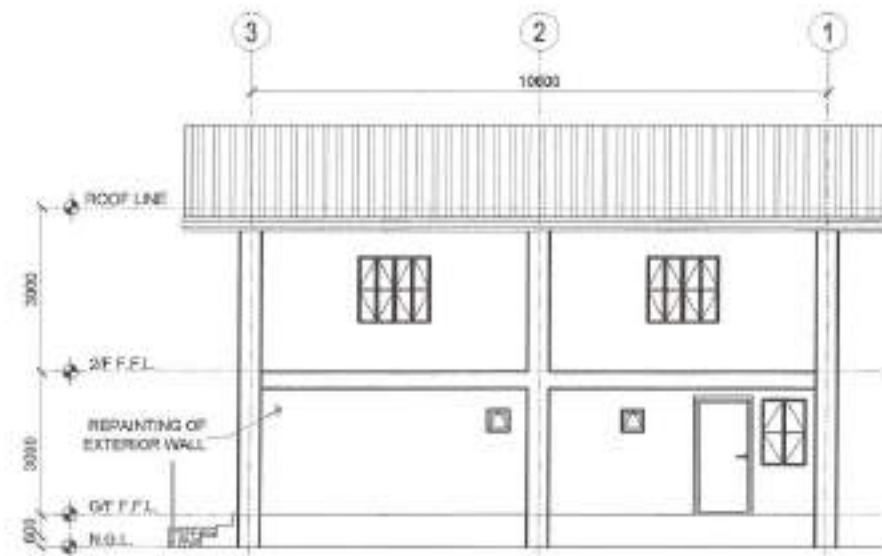
3 LEFT SIDE ELEVATION

SCALE: 1:100 METERS



2 REAR ELEVATION

SCALE: 1:100 METERS



4 RIGHT SIDE ELEVATION

SCALE: 1:100 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
PROJECT 6 DAYCARE CENTER**

LOCATION:
BARANGAY PROJECT 6 DISTRICT 1, QUEZON CITY

DRAWN BY: *[Signature]*
DATE: 10-05-2021
CHECKED BY: *[Signature]*
REVISION NO.: 1

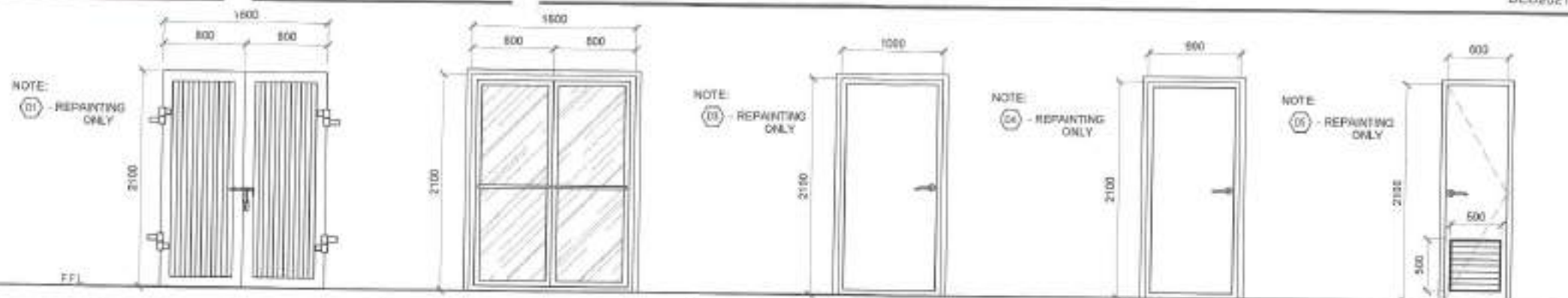
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMS DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. ISABAM R. VERZOSA, JR.
DEPUTY CITY ENGINEERING DEPARTMENT

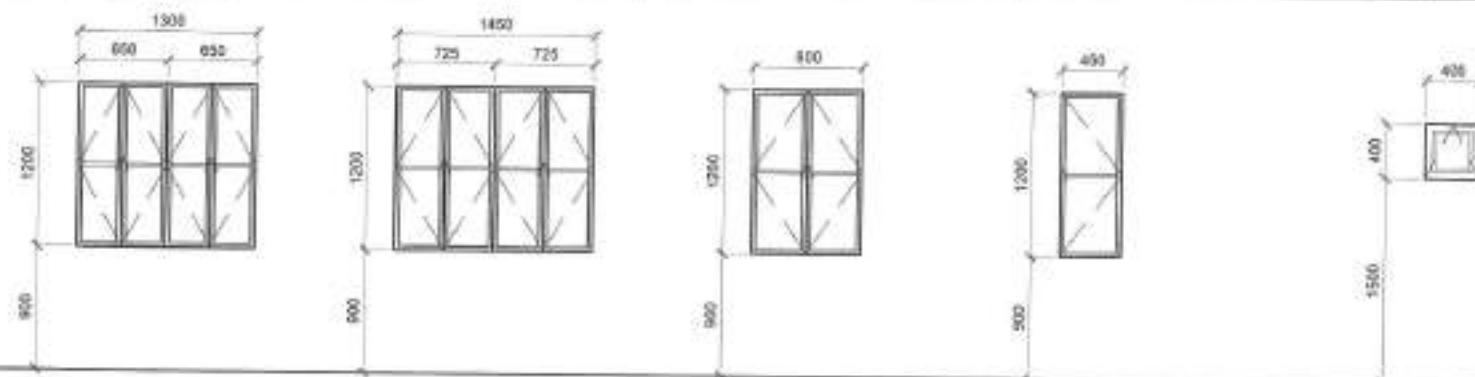
APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTÉ
CITY MAYOR, QUEZON CITY

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

SHEET NO:
AR-05
05/08




| NAME | D1 | D2 | D3 | D4 | D5 |
|-------------|-----------------|---|-----------------------|-----------------------|---------------------------|
| NO. OF SETS | 1 | 1 | 1 | 1 | 1 |
| DESCRIPTION | STEEL DOOR GATE | SLIDING ANALOG DOOR ON POWDER COATED ALUMINUM FRAME | SOLID WOOD PANEL DOOR | SOLID WOOD PANEL DOOR | PVC FLUSH DOOR W/ LOUVERS |
| LOCATION | GROUND FLOOR | GROUND FLOOR | GROUND FLOOR | GROUND FLOOR | GROUND FLOOR |



| NAME | W1 | W2 | W3 | W4 | W5 |
|-------------|-----------------------------|------------------------|------------------------|------------------------|--|
| NO. OF SETS | 10 | 1 | 3 | 2 | 1 |
| DESCRIPTION | ALUMINUM FRAMED WINDOW | ALUMINUM FRAMED WINDOW | ALUMINUM FRAMED WINDOW | ALUMINUM FRAMED WINDOW | POWDER COATED AWNING WINDOW WITH 3mm THK CLEAR GLASS |
| LOCATION | GROUND FLOOR / SECOND FLOOR | GROUND FLOOR | GROUND FLOOR | GROUND FLOOR | GROUND FLOOR / SECOND FLOOR |

1 DOORS AND WINDOWS SCHEDULE

SCALE: 1:30 METERS

| | | | | | | | | |
|--|---|---------------------|-----------------|---|--|---|----------------------------|----------------|
|  <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE: | OWNER BY: CM | SUBMITTED BY: | RECOMMENDING APPROVAL: | APPROVED BY: | SHEET CONTENT: | SHEET NO.: | |
| | PROPOSED REHABILITATION OF PROJECT 6 DAYCARE CENTER | DATE: APR. 10, 2021 | CHECKED BY: JEN | ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. ISABIAN R. VERZOSA, JR. CIC CITY ENGINEERING DEPARTMENT | MON. MA. JOSEFINA U. BELMONTES CITY MAYOR, QUEZON CITY | DOORS AND WINDOWS SCHEDULE | AR-06 06/08 |
| | LOCATION: BARANGAY PROJECT 6 DISTRICT 1, QUEZON CITY | REVISION NO.: 1 | | | | | | |

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LMAO AND ORDINANCES OF THE LOCAL CODE ENFORCING AGENCIES 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 ENGINEERS, 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 INC. SUPPORTED BY CONDUIT CLAMPS EVERY 760 MILLIMETER.
- PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING. EXCEPT WHERE NOT INDICATED ON THE PLANS, SIZING OF ALL PULL BOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT 2-D CP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRIOR TO FABRICATION, LOCATION OF PULL BOXES 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 200 V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFI" ON THE PLAN.
- ALL METALLIC CONDUITS, CABLES AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 150 MM AFF. (150MM ABOVE ADJACENT COUNTER)
 TELEPHONE OUTLET - 200 MM AFF.
 DATA OUTLET - 300 MM AFF.
 LIGHTING SWITCH - 500 MM AFF.
 PANELBOARD - 1500 MM AFF.

- REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL (SEQUENCING 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 DIMENSIONS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE DESCRIPTION OF THE PROJECT BUT DO NOT BE CONSIDERED INDICATED ACTUAL LOCATIONS, LEVELS 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 (DISCUSSION).
- ALL LIGHTING AND COMMUNICATION OUTLET CIRCUITS SHALL BE 3.0 SQ. MM. THINWALL COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 3.0 SQ. MM. COPPER WIRE. ALL WIRING AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

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

- SCHEMATIC, WIRING, OUTLETS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:
 MAXIMUM WIDTH OF THE WIRE SURFACE STEEL:
 UP TO INCLUDING 150.00MM GA 15 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 150.00MM BUT NOT OVER 180.00MM GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 180.00MM BUT NOT OVER 200.00MM GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 200.00MM GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
- ALL ELECTRICAL WORK HEREON SHALL BE EXECUTED BY SUPERVISORS AND UNDER THE DIRECT SUPERVISION OF A FULLTIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCSB. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE SHALL BE SINGLE PHASE, TWO-WIRE PLUS GROUND, 20 HVT, 230V AC NOMINAL.
- CONDUITS AND CABLES SHALL THERE BE MORE THAN THE COUNT OF FOUR QUARTER BEND IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD BENT 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 (EXCLUSIVE OF THE INSTALLATION) TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE INSULATION RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 1 OHM. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHM.

| | |
|--|---|
| | RECEPTACLE 10W LED BULB |
| | 300mm x 1200mm, 1xROW LED TROFFER TYPE, SURFACE MOUNTED |
| | ONE GANG SWITCH |
| | PANELBOARD |
| | ORBIT FAN |

2 LEGEND & SYMBOLS

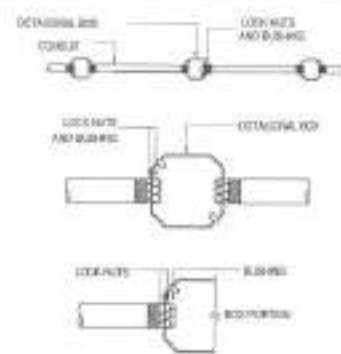
SCALE: NTS



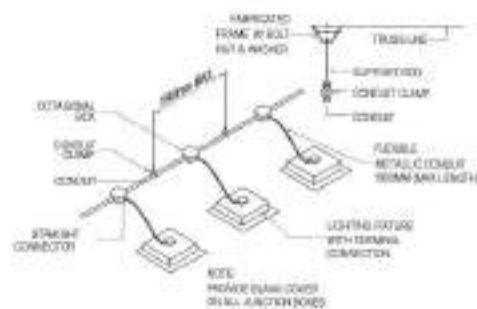
BENDING RADIUS DETAIL



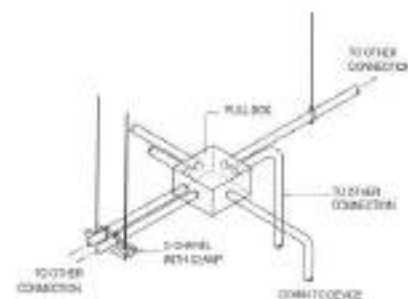
SPOT DETAIL OF CONDUIT RUN AND BOX



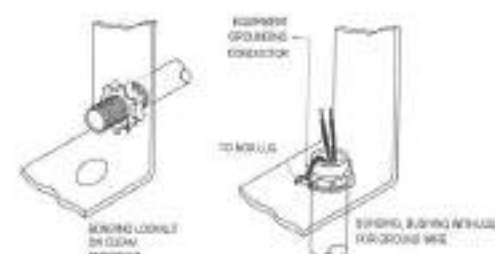
SPOT DETAIL OF CONDUIT RUN AND BOX



CONDUIT RUN FOR LIGHTING DISTRIBUTION IN ONE CIRCUIT (FOR EXPOSED OR INSIDE DROP-CEILING INSTALLATION)



PROPER CONDUIT LAYOUT IN PULL BOX



BONDED RACEWAY TERMINATION FOR SHEET METAL

1 GENERAL NOTES

SCALE: NTS

3 MISCELLANEOUS DETAILS

SCALE: NTS



Republika ng Pilipinas
 Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF PROJECT 6 DAYCARE CENTER

LOCATION: BARANGAY PROJECT 6 DISTRICT 1, QUEZON CITY

DRAWN BY: ENR

DATE: AUG. 26, 2021

CHECKED BY: JMS

REVISION NO.: 1

SUBMITTED TO:

ENR. LEO S. DEL ROSARIO

HEAD, PLANNING & PROGRAMMING DIVISION

FOLLOWING APPROVAL:

ENR. ISAGAN R. VERZOSA, JR.

CH. CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE

CITY ENGINEER, QUEZON CITY

SHEET CONTENT:

GENERAL NOTES

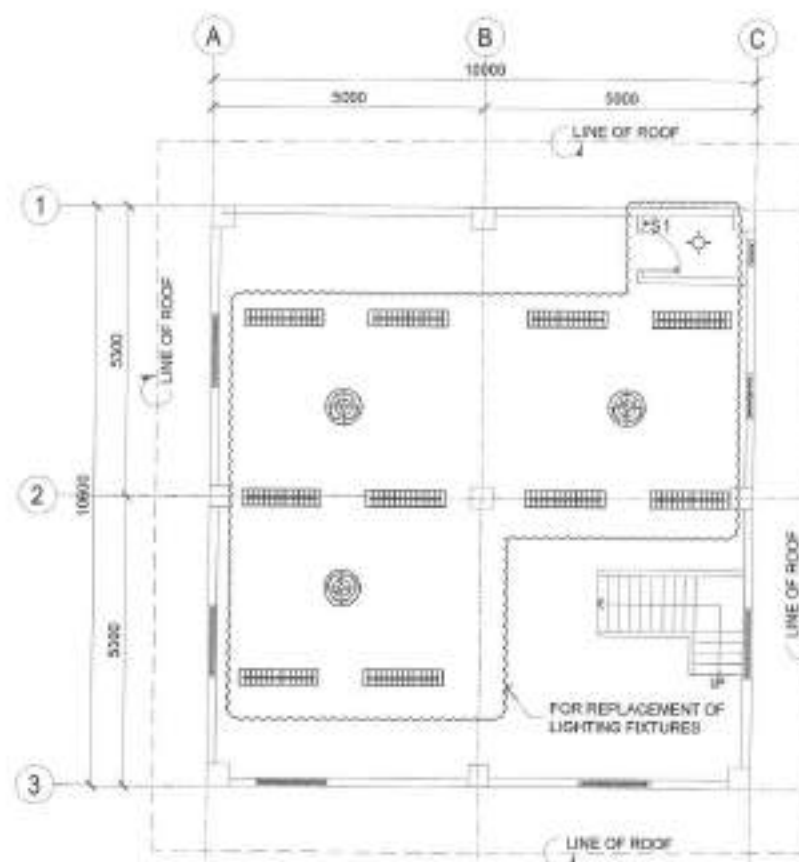
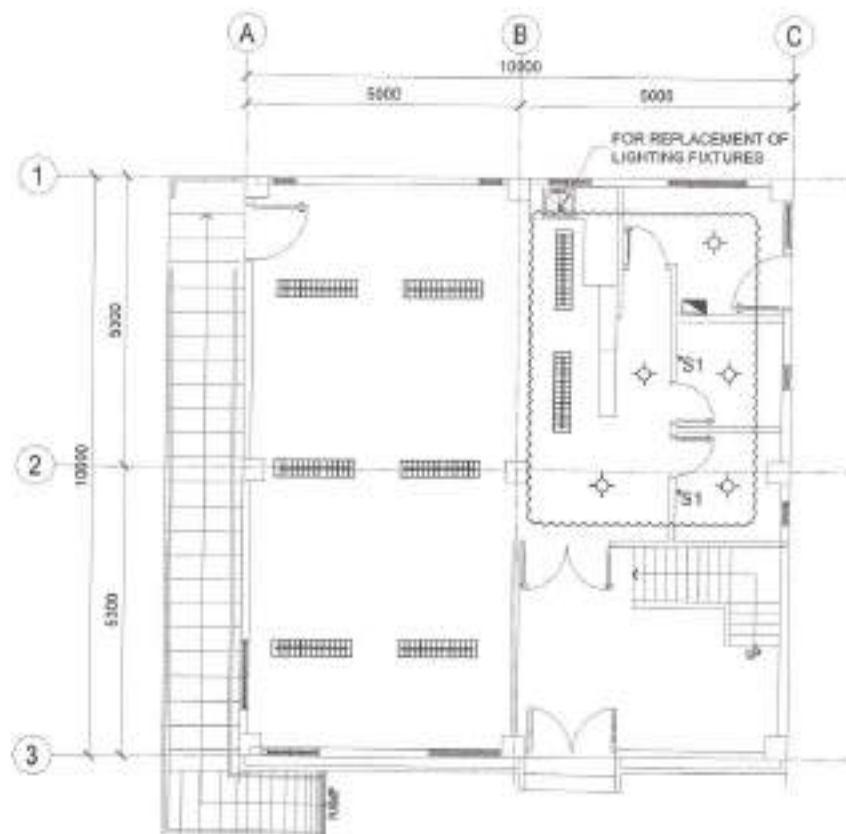
UNIFORMS AND SYMBOLS

MISCELLANEOUS DETAILS

SHEET NO.:

EL-01

07/08



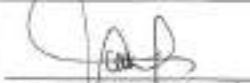




1 G/F LIGHTING LAYOUT (FOR REPLACEMENT)

SCALE: 1:100 METERS

2 2/F LIGHTING LAYOUT (FOR REPLACEMENT)

SCALE: 1:100 METERS

| | | | | | | | |
|--|--|---|---|--|---|--|------------------------------|
|  <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 PROJECT 6 DAYCARE CENTER | DATE: AUG 10, 2021 |  ENGR. LEO S. DEL ROSARIO HEAD - PLANNING & PROGRAMS DIVISION |  ENGR. ISAGANI R. VERZOSA, JR. CH. CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY | G/F LIGHTING LAYOUT (FOR REPLACEMENT) 2/F LIGHTING LAYOUT (FOR REPLACEMENT) | EL-02 08/08 |
| | LOCATION: BARANAY PROJECT 6 DISTRICT 4, QUEZON CITY | CHECKED BY:  | | | | | |

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 1 AREA IV

LOCATION : BARANGAY BAGONG PAG-ASA, PROJECT 6 & STO. CRISTO, DISTRICT 1, QUEZON CITY

PROJECT NO. : 22 - 00024

DURATION : Ninety (90) Calendar Days

BREAKDOWN OF COST

| ITEM NO. | ITEM OF WORK (DESCRIPTION) | MATERIALS COST | LABOR COST | INDIRECT COST | AGGREGATE COST |
|----------|-----------------------------------|----------------|------------|---------------|----------------|
| | BARANGAY BAGONG PAG - ASA | | | | |
| I | GENERAL REQUIREMENTS | | | | |
| II | SITE WORKS | | | | |
| III | CIVIL / STRUCTURAL WORKS | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| V | SANITARY AND PLUMBING WORKS | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | BARANGAY PROJECT 6 | | | | |
| I | GENERAL REQUIREMENTS | | | | |
| II | SITE WORKS | | | | |
| III | CIVIL / STRUCTURAL WORKS | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| V | SANITARY AND PLUMBING WORKS | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | BAHAY BULIT, BARANGAY STO. CRISTO | | | | |
| I | GENERAL REQUIREMENTS | | | | |
| II | CONSTRUCTION OF HAND WASHING FAC | | | | |
| III | REHABILITATION OF DAY CARE CENTER | | | | |

TOTAL COST P _____

LUMP SUM BID IN WORDS : _____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED REHABILITATION OF PROJECT 6 DAY CARE CENTER

LOCATION : BARANGAY PROJECT 6, DISTRICT 1, QUEZON CITY

PROJECT NO. : 22 - 00024

SCOPE OF WORKS:

1. General Requirements include temporary facilities and utilities, billboard, scaffolding, construction safety and health, temporary enclosure, clearing, hauling and disposal of construction materials and debris.
2. Site works include cleaning / clearing for painting preparation, removal of dilapidated roof, ceiling and windows.
3. Civil works include roofing works.
4. Architectural Works include ceiling finishes, installation of windows and painting works.
5. Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.
6. Electrical Works include installation of roughing-ins, wiring, 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 |
|------------|---|-----|-------|-----------------------|------------|
| I | GENERAL REQUIREMENTS | | | | |
| | Billboard | 1 | unit | ₱ | ₱ |
| | Cleaning, Hauling and Disposal of Construction Materials and Debris | 1 | t.l. | | |
| | Construction Safety and Health | 1 | unit | | |
| | Scaffolding (Rental) | 50 | sq.m. | | |
| | Temporary Electrical and Water Facilities | 90 | day | | |
| | Temporary Enclosure Around the Construction Area (h=2.4m) | 25 | l.m. | | |
| | | | | Direct Cost I | ₱ |
| II | SITE WORKS | | | | |
| | Cleaning / Clearing for Painting Preparation | 267 | sq.m. | ₱ | ₱ |
| | Removal Works | | | | |
| | Removal of Dilapidated Ceiling | 126 | sq.m. | | |
| | Removal of Dilapidated Roof | 171 | sq.m. | | |
| | Removal of Existing Windows | 23 | sq.m. | | |
| | | | | Direct Cost II | ₱ |
| III | CIVIL WORKS / STRUCTURAL WORKS | | | | |
| | Roofing Works | | | | |
| | 6mm Thick Thermal Insulation (Single Sided Aluminum Foil) | 171 | sq.m. | ₱ | ₱ |
| | 12.5mm x 300mm Fascia Board | 28 | l.m. | | |
| | Pre-Painted Rib Type G.I Roofing Ga. 20 | 171 | sq.m. | | |
| | Pre Painted G.I. Gutter | 26 | l.m. | | |
| | Pre Painted End Flashing | 28 | l.m. | | |
| | Miscellaneous and Consumables | | | | |
| | Rivets | 131 | piece | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|-----------|--|-------|-------|---------------------------|------------|
| | Tekscrew | 1,710 | piece | | |
| | Silicon Sealant | 5 | tube | | |
| | | | | Materials Cost III | ₱ |
| | | | | Labor Cost III | |
| | | | | Direct Cost III | ₱ |
| IV | ARCHITECTURAL WORKS | | | | |
| | Ceiling Finishes | | | | |
| | 12mm thk Gypsum Board with Complete Framing and Accessories | 152 | sq.m. | ₱ | ₱ |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | Installation of Windows | | | | |
| | W1 - 1.3m x 1.20m Aluminum Framed Window | 10 | set | ₱ | ₱ |
| | W2 - 1.45m x 1.20m Aluminum Framed Window | 1 | set | | |
| | W3 - 0.8m x 1.2m Aluminum Framed Window | 3 | set | | |
| | W4 - 0.45m x 1.2m Aluminum Framed Window | 2 | set | | |
| | W5 - 0.4m x 0.4m Awning Window on Powder Coated Frame with 6mm thk Clear Glass | 3 | set | | |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | Painting Works | | | | |
| | Elastomeric Paint Finish | | | | |
| | Exterior Wall | 286 | sq.m. | ₱ | ₱ |
| | Flat Latex Paint Finish | | | | |
| | Interior Wall | 245 | sq.m. | | |
| | Ceiling (Slab Soffit) | 112 | sq.m. | | |
| | Ceiling | 155 | sq.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | | | | Materials Cost IV | ₱ |
| | | | | Labor Cost IV | |
| | | | | Direct Cost IV | ₱ |
| V | SANITARY / PLUMBING WORKS | | | | |
| | Storm Drainage System | | | | |
| | 100mm Ø PVC Standard Hub Pipe | 18 | piece | ₱ | ₱ |
| | 100mm Ø x 100mm Ø PVC 1/4 Bend | 12 | piece | | |
| | 100mm Ø PVC Coupling | 18 | piece | | |
| | Fixtures & Accessories | | | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|-----------|--|-----|-------|-------------------------|------------|
| | Hose Bibb, Stainless Steel, Lever Type (Water Efficient) | 9 | piece | | |
| | Lavatory Faucet, Lever Type, Gooseneck (Water Efficient) | 1 | piece | | |
| | Pipe Hangers and Supports | | | | |
| | Downspout Brackets | 50 | l.m. | | |
| | Miscellaneous and Consumables | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | All Around Sealant | 1 | can | | |
| | Hacksaw Blade | 1 | piece | | |
| | Teflon Tape | 2 | roll | | |
| | Waste Cloth | 1 | kg | | |
| | | | | Materials Cost V | ₱ |
| | | | | Labor Cost V | |
| | | | | Direct Cost V | ₱ |
| VI | ELECTRICAL WORKS | | | | |
| | Roughng-ins | | | | |
| | 20mmØ PVC Pipe | 40 | piece | ₱ | ₱ |
| | Fittings and Accessories | | | | |
| | 20mmØ PVC Adaptor | 48 | piece | | |
| | 20mmØ PVC Locknut and Bushing | 48 | pair | | |
| | 50mm x 100mm PVC Utility Box | 6 | piece | | |
| | 100mm x 100mm PVC Junction Box with cover | 18 | piece | | |
| | 20mmØ Flexible Metallic Conduit | 18 | l.m. | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|--|-----|-------|--------------------------|------------|
| | Wires and Cables | | | | |
| | 3.5mm ² THHN Wire | 2 | roll | | |
| | Lighting Fixtures (Energy Efficient) | | | | |
| | 10W LED Bulb | 6 | piece | | |
| | 100mmØ Receptacle | 6 | piece | | |
| | 300mm x 1200mm, 1 x 20W LED, Troffer Type, w/ complete accessories, Surfaced Mounted | 12 | piece | | |
| | Wiring Devices & Appliances | | | | |
| | Orbit Fan, Heavy Duty with Selector Switch | 3 | piece | | |
| | Switch, w/ Plate & Cover , One Gang | 3 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | All around Sealant | 1 | can | | |
| | Electrical Tape | 15 | roll | | |
| | G.I Tie Wire | 2 | kg | | |
| | Hacksaw Blade | 3 | piece | | |
| | Masking Tape | 8 | roll | | |
| | Pulling Lubricant | 1 | gal | | |
| | Rubber Tape | 8 | roll | | |
| | | | | Materials Cost VI | P |
| | | | | Labor Cost VI | |
| | | | | Direct Cost VI | P |
| | | | | | |

SUMMARY

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | TOTAL COST |
|---|--|------------|
| I II III IV V VI | GENERAL REQUIREMENTS SITE WORKS CIVIL WORKS / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS ELECTRICAL WORKS | P |
| Strictly enforce health protocols relative to the latest applicable DPWH memorandum | TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit VAT | P |
| | TOTAL ESTIMATED COST | P |

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED REHABILITATION OF BARANGAY BAGONG PAG-ASA DAY CARE CENTER

LOCATION : BARANGAY BAGONG PAG-ASA, DISTRICT 1, QUEZON CITY

PROJECT NO. : 22 - 00024

SCOPE OF WORKS:

- 1 General Requirements include billboard, cleaning, hauling and disposal of construction materials and debris, construction safety and health, scaffolding, temporary facilities and utilities and temporary enclosure around the construction area.
- 2 Site Works include demolition/removal works of existing walls, ceiling, comfort room tiles, plumbing fixture, doors and cleaning and clearing of wall, steel Surfaces, ceiling and door for painting preparation.
- 3 Civil/Structural works include thermal and moisture protection.
- 4 Architectural works include floor finishes, wall finishes, ceiling works, installation of doors and painting works.
- 5 Sanitary/plumbing works include installation of roughing-ins, fixtures and accessories.
- 6 Electrical works include installation of roughing-ins, wirings, devices and fixtures.
- 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 |
|------------|--|-----|-------|---------------------------|------------|
| I | GENERAL REQUIREMENTS | | | | |
| | Billboard | 1 | unit | ₱ | ₱ |
| | Cleaning, Hauling and Disposal of Construction Materials and Debris | 1 | t.l. | | |
| | Construction Safety and Health | 1 | unit | | |
| | Scaffolding (Rental) | 41 | sq.m. | | |
| | Temporary Electrical and Water Facilities | 45 | day | | |
| | Temporary Enclosure Around the Construction Area (h=2.4m) | 14 | l.m. | | |
| | | | | Direct Cost I | ₱ |
| II | SITE WORKS | | | | |
| A | Demolition/Removal Works | | | | |
| | Removal of Existing CHB Walls | 12 | sq.m. | ₱ | ₱ |
| | Removal of Existing Ceiling | 9 | sq.m. | | |
| | Removal of Existing CR Tiles | 17 | sq.m. | | |
| | Removal of Existing Door and Door Jambs | 3 | set | | |
| | Removal of Existing Water Closet | 1 | set | | |
| | Cleaning and Clearing of Wall, Steel Surfaces, Ceiling and Door for Painting Preparation | 289 | sq.m. | | |
| | | | | Direct Cost II | ₱ |
| III | CIVIL WORKS / STRUCTURAL WORKS | | | | |
| A | Thermal and Moisture Protection | | | | |
| | Cementitious Capillary Type Waterproofing (Comfort Room) | 4 | sq.m. | ₱ | ₱ |
| | | | | Materials Cost III | ₱ |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|-----------|--|-----|-------|--------------------------|------------|
| | | | | Labor Cost III | |
| | | | | Direct Cost III | ₱ |
| IV | ARCHITECTURAL WORKS | | | | |
| A | Floor Finishes | | | | |
| | 300mm x 300mm Non-skid Homogeneous Floor Tile | | | | |
| | Comfort Rooms | 4 | sq.m. | ₱ | ₱ |
| | Demolished CHB Flooring | 2 | sq.m. | | |
| | Floor topping for preparation of tiles | 6 | sq.m. | | |
| B | Wall Partitions and Finishes | | | | |
| | 300mm x 300mm Homogeneous Tile (Comfort Rooms) | 13 | sq.m. | | |
| C | Ceiling Finishes | | | | |
| | 12mm thick Gypsum Board including Metal Framing | 46 | sq.m. | | |
| | 12mm thick Moisture Resistant Gypsum Board including Metal Framing | 4 | sq.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Direct Cost | ₱ |
| D | Installation of Doors | | | | |
| | Doors | | | | |
| | D2 - 0.6m x 2.1m PVC Door | 1 | set | ₱ | ₱ |
| | Hardwares and Accessories | | | | |
| | Door Hinge, Heavy Duty | 3 | piece | | |
| | Door Knob, Lever Type | 1 | piece | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Direct Cost | ₱ |
| E | Painting Works | | | | |
| | Elastomeric Paint Finish (Exterior Walls) | 59 | sq.m. | ₱ | ₱ |
| | Flat Latex Paint Finish | | | | |
| | Interior Walls | 168 | sq.m. | | |
| | Ceiling | 62 | sq.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Direct Cost | ₱ |
| | | | | | |
| | | | | Materials Cost IV | ₱ |
| | | | | Labor Cost IV | |
| | | | | Direct Cost IV | ₱ |
| V | SANITARY AND PLUMBING WORKS | | | | |
| A | Sewer Line System | | | | |
| | 50mm Ø PVC Standard Hub Pipe | 1 | piece | ₱ | ₱ |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|--|-----|-------|-------------------------|------------|
| | 75mm Ø PVC Standard Hub Pipe | 1 | piece | | |
| | 75mm Ø x 75mm Ø PVC Wye | 1 | piece | | |
| | 50mm Ø x 50mm Ø PVC 1/4 Bend | 1 | piece | | |
| | 75mm Ø x 75mm Ø PVC 1/4 Bend | 1 | piece | | |
| | 75mm Ø x 75mm Ø PVC 1/8 Bend | 1 | piece | | |
| | 50mm Ø PVC P-Trap | 1 | piece | | |
| | 50mm Ø PVC Coupling | 1 | piece | | |
| | 75mm Ø PVC Coupling | 1 | piece | | |
| B | Water Line System | | | | |
| | 20mm Ø PPR Pipe, PN 16 | 1 | piece | | |
| | 32mm Ø PPR 90° Elbow | 2 | piece | | |
| | 20mm Ø PPR Female Threaded Adaptor | 1 | piece | | |
| | 20mm Ø PPR Coupling | 1 | piece | | |
| | 20mm Ø PPR End Cap | 1 | piece | | |
| E | Fixtures & Accessories | | | | |
| | Bidet with Accessories, Stainless Heavy Duty (Water Efficient) | 1 | piece | | |
| | Hose Bibb, Heavy Duty Stainless (Water Efficient) | 8 | unit | | |
| | Lavatory, Wall-hung | 1 | unit | | |
| | Lavatory Faucet, (Water Efficient) | 1 | unit | | |
| | Water Closet, Tank Type (Water Efficient) | 1 | unit | | |
| | Accessories | | | | |
| | Angle Valve, One-way, Stainless Steel | 1 | piece | | |
| | Angle Valve, Two-way, Stainless Steel | 1 | piece | | |
| | Flexible Hose, Stainless Steel | 2 | piece | | |
| G | Miscellaneous and Consumables | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | All Around Sealant | 1 | can | | |
| | Hacksaw Blade | 1 | piece | | |
| | Teflon Tape | 2 | roll | | |
| | Waste Cloth | 1 | kg | | |
| | | | | Materials Cost V | P |
| | | | | Labor Cost V | |
| | | | | Direct Cost V | P |
| | | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | Roughng-ins, Pipes and Fittings | | | | |
| | 20mmØ PVC Pipe | 40 | piece | P | P |
| | Fittings and Accessories | | | | |
| | 20mmØ PVC Adaptor | 32 | piece | | |
| | 20mmØ PVC Locknut and Bushing | 32 | pair | | |
| | 50mm x 100mm PVC Utility Box | 3 | piece | | |
| | 100mm x 100mm PVC Junction Box with cover | 13 | piece | | |
| | 20mmØ Flexible Metallic Conduit | 13 | l.m. | | |
| | Wires and Cables | | | | |
| | 3.5mm² THHN Wire | 2 | roll | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|---|-----|-------|-------------------------|------------|
| | Lighting Fixtures (Energy Efficient) | | | | |
| | 18W LED Tube Light , Box Type | 2 | piece | | |
| | 10W LED Bulb | 2 | piece | | |
| | 100mmØ Receptacle | 2 | piece | | |
| | 300mm x 600mm,w/ 1 x 10w LED, Troffer Type, w/ complete accessories, Surfaced Mounted | 2 | piece | | |
| | 600mm x 1200mm, 2 x 18W LED, Troffer Type, w/ complete accessories, Surfaced Mounted | 7 | piece | | |
| | Wiring Devices & Appliances | | | | |
| | Switch with Plate & Cover, One Gang | 1 | piece | | |
| | Switch with Plate & Cover, Two Gang | 1 | piece | | |
| | Switch with Plate & Cover, Three Gang | 1 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 3 | can | | |
| | All around Sealant | 2 | can | | |
| | Electrical Tape | 8 | roll | | |
| | G.I Tie Wire | 3 | kg | | |
| | Hacksaw Blade | 5 | piece | | |
| | Masking Tape | 5 | roll | | |
| | Pulling Lubricant | 1 | gal | | |
| | Rubber Tape | 3 | roll | | |
| | | | | Material Cost VI | ₱ |
| | | | | Labor Cost VI | |
| | | | | Direct Cost VI | ₱ |
| | | | | | |

SUMMARY

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | AMOUNT |
|--|-------------------------------------|----------|
| I | GENERAL REQUIREMENTS | |
| II | SITE WORKS | |
| III | CIVIL WORKS / STRUCTURAL WORKS | |
| IV | ARCHITECTURAL WORKS | |
| V | SANITARY AND PLUMBING WORKS | |
| VI | ELECTRICAL WORKS | |
| Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum | | |
| TOTAL DIRECT COST | | ₱ |
| Overhead, Contingencies and Miscellaneous Expenses (OCM) | | |
| Profit | | |
| VAT | | |
| TOTAL ESTIMATED COST | | ₱ |

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND
REHABILITATION OF BAHAY BULILIT DAY CARE CENTER

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

PROJECT NO. : 22 - 00024

SCOPE OF WORK :

- I General Requirements include billboard, clearing, hauling and disposal of construction materials and debris and construction safety & health.
- II Construction of hand washing facility.
 - a Installation of single sink portable handwashing facility.
 - b Site Works include chipping of floor.
 - c Civil Works include restoration of concrete.
 - d Plumbing Works include installation of waterline, fixtures, hardware and accessories.
- III Rehabilitation of day care center.
 - a Site Works include removal of dilapidated ceiling, door, window, tiles, roof, gutter, under counter cover and cleaning and clearing for painting preparation.
 - b Civil Works include metal works and roofing works.
 - c Architectural Works include floor finishes, wall finishes, ceiling works, painting works, installation of doors and windows and fabricated materials.
 - d Plumbing Works include installation of waterline, fixtures, hardware and accessories.
 - e Electrical Works include installation of wiring devices and other fixtures.
- 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 |
|-----------|---|-----|-------|----------------------|------------|
| I | GENERAL REQUIREMENTS | | | | |
| | Billboard | 1 | unit | ₱ | ₱ |
| | Clearing, Hauling and Disposal of Construction Materials and Debris | 1 | t.l. | | |
| | Construction Safety and Health | 1 | unit | | |
| | | | | DIRECT COST I | ₱ |
| II | CONSTRUCTION OF HAND WASHING FACILITY | | | | |
| A | Hand Washing Facility | | | | |
| | Single Sink, Portable Hand Washing Facility | 1 | unit | ₱ | ₱ |
| | | | | Subtotal-A | ₱ |
| B | Site Works | | | | |
| | Chipping of Floor (Plumbing / Sanitary Works) | 1 | sq.m. | ₱ | ₱ |
| | | | | Subtotal-B | |
| C | Civil Works | | | | |
| | Restoration of Concrete (Floor) | 1 | sq.m. | ₱ | ₱ |
| | | | | Materials Cost-C | ₱ |
| | | | | Labor Cost-C | |

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|--------------------------|------------|
| | | | | Subtotal-C | ₱ |
| D | Plumbing / Sanitary Works | | | | |
| | Sewer Line / Storm Drainage System | | | | |
| | Roughing-Ins | | | | |
| | 50 mm Ø, Pipe PVC | 1 | piece | ₱ | ₱ |
| | 75 mm Ø, Pipe PVC | 1 | piece | | |
| | 50mm Ø, 1/8 Bend | 1 | piece | | |
| | 100mm Ø, 1/8 Bend | 1 | piece | | |
| | 75mm Ø, 1/4 Bend | 1 | piece | | |
| | 100mm Ø x 75mm Ø Tee | 2 | piece | | |
| | 100mm Ø x 50mm Ø Wye | 1 | piece | | |
| | Waterline System | | | | |
| | Roughing-Ins | | | | |
| | 20mm Ø, Pipe PPR | 1 | piece | | |
| | 20mm Ø, Elbow | 1 | piece | | |
| | 20mm Ø, Coupling | 1 | piece | | |
| | 20mm Ø, Tee Equal | 1 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | Hacksaw Blade | 1 | piece | | |
| | Teflon Tape | 1 | roll | | |
| | Waste Cloth | 1 | kg | | |
| | | | | Materials Cost-D | ₱ |
| | | | | Labor Cost-D | |
| | | | | Subtotal-D | ₱ |
| | | | | | |
| | | | | MATERIALS COST II | ₱ |
| | | | | LABOR COST II | |
| | | | | DIRECT COST II | ₱ |
| | | | | | |
| III | REHABILITATION OF DAY CARE CENTER | | | | |
| A | Site Works | | | | |
| | Removal of Dilapidated Ceiling | 112 | sq.m. | ₱ | ₱ |
| | Removal of Dilapidated Door | 4 | unit | | |
| | Removal of Dilapidated Window | 17 | sq.m. | | |
| | Removal of Under Counter Cabinet | 4 | sq.m. | | |
| | Removal of Tiles | 66 | sq.m. | | |
| | Removal of Roof | 145 | sq.m. | | |
| | Removal of Gutter | 55 | l.m. | | |
| | Clearing / Cleaning for Painting Preparation | 249 | sq.m. | | |
| | | | | Subtotal-A | ₱ |
| | | | | | |
| B | Civil Works | | | | |
| | Metal Works | | | | |

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|--|-----|-------|------------------|------------|
| | Gate | | | | |
| | 12mm Square Bar | 31 | kg | ₱ | ₱ |
| | 50mmØ Round Bar | 23 | kg | | |
| | Barrel Bolt | 1 | set | | |
| | Hinge, Heavy Duty, Stainless | 3 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | Acetylene Tank (Refill) | 1 | tank | | |
| | Cut Off Blade | 5 | piece | | |
| | Grinding Disc for Metal | 5 | piece | | |
| | Oxygen Tank (Refill) | 1 | tank | | |
| | Welding Rod | 1 | box | | |
| | Roofing Works | | | | |
| | 300mm Fiber Cement Fascia Board | 58 | l.m. | | |
| | Pre-Painted Rib-type G.I. Roofing | 145 | sq.m | | |
| | Pre-Painted G.I. Gutter | 58 | l.m. | | |
| | Tekscrew | 174 | piece | | |
| | | | | Materials Cost-B | ₱ |
| | | | | Labor Cost-B | |
| | | | | Direct Cost-B | ₱ |
| | | | | | |
| C | Architectural Works | | | | |
| | Floor Finishes | | | | |
| | 400mm x 400mm Non-Skid Homogeneous Tiles | 64 | sq.m | ₱ | ₱ |
| | 300mm x 300mm Non-Skid Homogeneous Tiles | 6 | sq.m | | |
| | Wall Finishes and Partition | | | | |
| | 300mm x 300mm Non-Skid Homogeneous Tiles | 21 | sq.m | | |
| | Ceiling Works | | | | |
| | 6mm thk Fiber Cement Board with Complete Framing and Accessories | 112 | sq.m | | |
| | Painting Works | | | | |
| | Flat Latex Paint Finish (Interior wall) | 135 | sq.m | | |
| | Flat Latex Paint Finish (Ceiling) | 112 | sq.m | | |
| | Epoxy Enamel Paint Finish (Gate) | 2 | sq.m | | |
| | Fabricated Materials | | | | |
| | Under Counter Cover (Aluminum) | 3 | l.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | | | | | |
| | Installation of Doors | | | | |
| | D1 - (0.90m x 2.10m) Swing Type Flush Hollow Core Painted Finish | 1 | set | ₱ | ₱ |
| | D2 - (0.60m x 2.10m) Swing Type PVC Door Painted Finish (Kitten White) w/ 400mm X 200mm Louver | 2 | set | | |
| | D3 - (0.80m x 2.10m) Swing Type Flush Hollow Core Painted Finish | 1 | set | | |

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|--|-----|-------|------------------|------------|
| | Door jamb | | | | |
| | D1 - (0.90m x 2.10m) Swing Type Flush Hollow Core Door | 1 | set | | |
| | D2 - (0.60m x 2.10m) Swing Type Flush Hollow Core Door | 2 | set | | |
| | D3 - (0.80m x 2.10m) Swing Type Flush Hollow Core Door | 1 | set | | |
| | Hardware accessories | | | | |
| | Door Hinges, Heavy Duty Stainless | 12 | set | | |
| | Door Knob, Lever Type, Stainless | 4 | set | | |
| | Door Closer, Heavy Duty Stainless | 4 | set | | |
| | Door Lock Set, Stainless | 4 | piece | | |
| | Installation of Windows | | | | |
| | W1 -(2.80m x 1.30m) Sliding Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories | 4 | set | | |
| | W2 -(0.40m x 1.30m) Fixed Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories | 1 | set | | |
| | W3 -(1.20m x 1.00m) Sliding Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories | 1 | set | | |
| | W4 -(0.40m x 0.50m) Awning Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories | 2 | set | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | | | | | |
| | | | | Materials Cost-C | ₱ |
| | | | | Labor Cost-C | |
| | | | | Direct Cost-C | ₱ |
| | | | | | |
| D | Plumbing / Sanitary Works | | | | |
| | Sewer Line / Storm Drainage System | | | | |
| | Roughing-Ins | | | | |
| | 50 mm Ø, Pipe PVC | 4 | piece | ₱ | ₱ |
| | 75 mm Ø, Pipe PVC | 4 | piece | | |
| | 100mm Ø, Pipe PVC | 4 | piece | | |
| | 50mm Ø, P-Trap | 6 | piece | | |
| | 75mm Ø, P-Trap | 2 | piece | | |
| | 50mm Ø, 1/8 Bend | 9 | piece | | |
| | 75mm Ø, 1/8 Bend | 2 | piece | | |
| | 100mm Ø, 1/8 Bend | 3 | piece | | |
| | 75mm Ø, 1/4 Bend | 3 | piece | | |
| | 100mm Ø x 75mm Ø, Tee | 10 | piece | | |
| | 100mm Ø x 50mm Ø, Wye | 9 | piece | | |

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|---|-----|-------|------------------|------------|
| | 100mm Ø x 75mm Ø, Wye | 2 | piece | | |
| | 100mm Ø x 100mm Ø, Wye | 2 | piece | | |
| | 100mm Ø x 50mm Ø, Tee Reducer | 4 | piece | | |
| | 100mm Ø, Cleanout with Adapter | 1 | piece | | |
| | Waterline System | | | | |
| | Roughing-Ins | | | | |
| | 20mm Ø, Pipe PPR | 5 | piece | | |
| | 20mm Ø, Elbow | 5 | piece | | |
| | 20mm Ø, Coupling | 5 | piece | | |
| | 20mm Ø, Tee Equal | 9 | piece | | |
| | 20mm Ø, Female Threaded, Elbow | 8 | piece | | |
| | 20mm Ø, Female Adapter | 1 | piece | | |
| | Valves and Appurtenances | | | | |
| | 20mm Ø Gate Valve, PPR | 1 | piece | | |
| | Fixtures | | | | |
| | Bidet with Accessories, Stainless (Water Efficient) | 2 | piece | | |
| | Floor Drain, 100mm x 100mm, Stainless | 2 | piece | | |
| | Grease Trap, 5 GPM, Heavy Duty | 1 | piece | | |
| | Kitchen Faucet Lever Type, Stainless Heavy Duty (Water Efficient) | 4 | unit | | |
| | Kitchen Sink 8" Deep, Stainless Steel | 1 | unit | | |
| | Slop Sink Faucet, Stainless (Water Efficient) | 2 | unit | | |
| | Urinal, Flush Type, Kiddy (Water Efficient) | 1 | unit | | |
| | Water Closet, Tank Type w/ Accessories, Kiddy (Water Efficient) | 2 | unit | | |
| | Accessories | | | | |
| | Flexible Hose, Stainless Steel | 4 | piece | | |
| | Angle Valve, Stainless Steel, Single Way | 4 | piece | | |
| | Angle Valve, Stainless Steel, Two Way | 2 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 3 | can | | |
| | Hacksaw Blade | 2 | piece | | |
| | Teflon Tape | 2 | roll | | |
| | Waste Cloth | 1 | kg | | |
| | | | | Materials Cost-D | ₱ |
| | | | | Labor Cost-D | |
| | | | | Direct Cost-D | ₱ |
| | | | | | |
| E | Electrical Works | | | | |
| | Wiring Devices and other fixtures | | | | |
| | 150mm Ø Round Recessed Pinlight Case with LED bulb | 7 | set | ₱ | ₱ |
| | 18W LED bulb | 2 | piece | | |
| | E27 Receptacle Ceiling Mounted | 2 | piece | | |
| | T8, 18w LED Tube light, Box type | 5 | piece | | |
| | | | | Materials Cost-E | ₱ |
| | | | | Labor Cost-E | |

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|---------|-----------------------------------|-----|------|--------------------|------------|
| | | | | Direct Cost-E | ₱ |
| | | | | | |
| | | | | MATERIALS COST III | ₱ |
| | | | | LABOR COST III | |
| | | | | DIRECT COST III | ₱ |
| | | | | | |

SUMMARY

| ITEM NO. | WORK DESCRIPTION & SCOPE OF WORKS | TOTAL COST |
|--|--|------------|
| I II III | GENERAL REQUIREMENTS CONSTRUCTION OF HAND WASHING FACILITY REHABILITATION OF DAY CARE CENTER | ₱ |
| Note: Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum | TOTAL DIRECT COST | ₱ |
| | Overhead, Contingencies and Miscellaneous Expenses (OCM) | |
| | Profit VAT | |
| | TOTAL ESTIMATED COST | ₱ |

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]

BID FORM

Date : _____
Project Identification No. : _____

To: *[name and address of Procuring Entity]*

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

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

¹ currently based on GPPB Resolution No. 09-2020

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- 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]

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]

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]

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]

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/manufacture/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]

PROJECT TITLE: _____

Page ____ of ____

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

| PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION | DATE OF CONTRACT | CONTRACT DURATION | PROJECT OWNER & POSTAL ADDRESS | NATURE OF WORK | CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, 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 |
|---|---------------------|----------------------|-----------------------------------|----------------|---|--|--|--|
| | | | | | | | | |

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page _____ of _____

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 | _____ |
| NET FINANCIAL CONTRACTING CAPACITY | | 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 VEY 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

