PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 AREA IX (CLUSTER 1)

Project number: 22-00007

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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	Warranty Liability of the Contractor Termination for Other Causes Dayworks Program of Work Instructions, Inspections and Audits Advance Payment Progress Payments Operating and Maintenance Manuals V. Special Conditions of Contract VI. Specifications VII. Drawings VIII. Bill of Quantities IX. Checklist of Technical and Financial Documents

Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC - Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



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



CONSULTANCY

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

January 17, 2022

Invitation to Bid

No	Projec t No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Ви	ildings	– Small B				¥ 1	
1	22- 00001	Proposed Rehabilitation of Day Care Center at District 5 / Area IX (Cluster 2)	Novaliches Proper, Nagkaisang Nayon	3,596,040.51	60	Engineering Dept.	Engineering Department- Continuing Appropriation
2	22- 00002	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 / Area VIII (Cluster 3)	Kailigayahan , Fairview	4,390,415.05	60	Engineering Dept.	Engineering Department- Continuing Appropriation
3	22- 00003	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 6 / AREA X	Sauyo	4,513,739.69	75	Engineering Dept.	Engineering Department- Continuing Appropriation
4	22- 00004	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 6 / Area XI	Balonbato, Sangandaan	5,659,364.94	90	Engineering Dept.	Engineering Department- Continuing Appropriation
5	22- 00005	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 / AREA VIII (Cluster 2)		6,193,888.63	60	Engineering Dept.	Engineering Department- Continuing Appropriation
6	22- 00006	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 Area X	Bagbag, San Bartolome, Gulod	6,734,114.50	60	Engineering Dept.	Engineering Department- Continuing Appropriation
7	22- 00007	Proposed Rehabilitation of Day Care Center at District 5 Area IX (Cluster 1)	Nagkaisang Nayon, San Agustin	6,973,975.80	60	Engineering Dept.	Engineering Department- Continuing Appropriation
8	22- 00008	Proposed Construction of Two (2) Storey Nomar II Day Care Center at Barangay San Bartolome	San Bartolome	9,776,081.57	180	Engineering Dept.	Engineering Department- Continuing Appropriation
9	22- 00009	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 6 / Area XII	Pasong Tamo	9,855,463.80	75	Engineering Dept.	Engineering Department- Continuing Appropriation
10	22- 00010	Proposed Renovation of ITDD, AMO and District Coordinators at Second Floor Main Building, QC Hall Compound	Central	13,236,971.37	180	Engineering Dept.	Engineering Department- Continuing Appropriation

Bu	ildings	- Medium A					
11	22- 00011	Proposed Construction of Four (4) Storey with Deck Quirino 2-C Barangay Hall	Quirino 2-C	41,886,320.36	300	Engineering Dept.	Engineering Department- Continuing Appropriation
12	22- 00012	Proposed Construction of Material Recovery and Composting Facility (MRCF) at Barangay Holy Spirit (Phase 1)	Holy Spirit	75,484,667.34	360	Engineering Dept.	Engineering Department- Continuing Appropriation
Flo	ood Cor	ntrol – Small B				20	
13	22- 00013	Proposed Construction of Retaining Wall at Housing No. 23	Greater Lagro	3,611,788.95	120	Engineering Dept.	Local Disaste Risk Reduction and Management Fund - Continuing Appropriation
FIC	ood Cor	ntrol – Medium A					
14	22- 00014	Proposed Construction of Reinforced Concrete Canal at Balingasa Creek (Old Samson Road)	Balingasa	39,226,171.70	240	Engineering Dept.	Local Disaste Risk Reduction and Management Fund Continuing Appropriation
15	22- 00015	Proposed Construction of Reinforce Concrete Canal at Culiat Creek (Mindanao Avenue to existing Bridge / Road 5)	Project 6	60,562,554.95	300	Engineering Dept.	Local Disaste Risk Reduction and Management Fund Continuing Appropriation
Pa	rks – Si	mall B					- Украторионали Т
16	22- 00016	Proposed Construction of Linear Park (Diamond HOA) at Kasunduan Street	Commonwealth	4,885,324.49	90	Parks Dept.	Engineering Department- Continuing Appropriation
Ro	ads – S	mall B					
17	22- 00017	Proposed Land Development of Human and Pet Crematorium and Columbarium Phase 2 at Barangay Bagong Silangan	Bagong Silangan	2,064,680.70	90	Engineering Dept.	Engineering Department- Continuing Appropriation
18	22- 00018	Proposed Rehabilitation of Drainage System, Sidewalk and Surface Improvement at Economia Street	Bagumbayan	8,294,235.72	150	Engineering Dept.	OCM - 20% Community Development Fund
19	22- 00019	Proposed Rehabilitation of Road and Drainage at Gozum Street (St. James Subdivision)	Nagkaisang Nayon	14,188,360.03	180	Engineering Dept.	OCM - 20% Community Development Fund (Previous Years Accom Balances)

- The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years
 intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to
 payments under the contract for the above stated Projects. Bids received in excess of the ABC
 shall be automatically rejected at bid opening.
- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- Bidding will be conducted through open competitive bidding procedures using nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on 18 January 2022 (Tuesday) from given address and website's below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

STANDARD RATES:

Maximum Cost of Bidding Documents (in Philippine Peso)
5,000.00
10,000.00
25,000.00
50,000.00
75,000.00

The following are the requirements for purchase of Bidding Documents;

- PhilGEPS Registration Certificate (Platinum 3 Pages)
- 2. Document Request List (DRL)
- 3. Authorization to purchase bidding documents
 - Secretary's Certificate (for corporation)
 - 3.2 Special Power of Attorney (for sole proprietorship)
- 4. Notarized Joint Venture Agreement (if applicable)
- 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 **January 25, 2022 - 5:00PM**.

6. The QC-BAC-INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on January 26, 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.

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

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 February 9, 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 February 9, 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.
- 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:

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

By:

LE 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 REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 AREA IX (CLUSTER 1), with Project Identification Number 22-00007.

[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 Six Million Nine Hundred Seventy-Three Thousand Nine Hundred Seventy-Five Pesos & 80/100 Ctvs. (P 6,973,975.80).
- 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 January 26, 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	No additional contractor license or permit is required In addition, eligible bidders shall qualify or comply with the following:			
			- **	, ,
	1. DIUC	ders with valid Philippi	ne Contractors Accred	itation board (PCAB)
	Typ	pe		
]	Building - Small B		
10.4	The n	<u>-</u>	ence requirements for	or key personnel are the
	PF	ROPOSED REHABIL	LITATION OF ST. AS CENTER	NDREW DAY CARE
	Qnty.	Key Personnel	General Experience	Relevant Experience
	1	Project Engineer	3 years	3 years
	1	DPWH duly accredite Materials Engineer	d 3 years	3 years
	1	Safety Officer	3 years	3 years
	1	Foreman	3 years	3 years
	4	Skilled Worker	3 years	3 years
	1	Driver	3 years	3 years
	4	Laborer	1 year	3 months
	PRO	POSED REHABILIT	ATION OF LAZARO	D DAY CARE CENTER
	Qnty.	Key Personnel	General Experience	Relevant Experience
	1	Project Engineer	3 years	3 years
	1	DPWH duly accredite Materials Engineer	d 3 years	3 years

1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
7	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
7	Laborer	1 year	3 months
P	ROPOSED REHABI	LITATION OF JONA CENTER	AVILLE DAY CARE
Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredite Materials Engineer	ed 3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
5	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
3	Laborer	1 year	3 months
PRO	POSED REHABILI	TATION OF NAGKA CARE CENTER	ISANG NAYON I DAY
Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredite Materials Engineer	ed 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

	PROP	OSED REHABILIT	TATION OF T.S. CRU	ZZ DAY CARE CENTER
	Qnty.	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
	6	Skilled Worker	3 years	3 years
	1	Driver	3 years	3 years
	6	Laborer	1 year	3 months
	notariz	ed stating that the fo project until its com	regoing personnel shal pletion. Please see attac	· ·
10.5	The mi	nimum major equipn	nent requirements are th	e following:
	PR	OPOSED REHABI	LITATION OF ST. A CENTER	NDREW DAY CARE
	Equipn	nent	Capacity	Number of Units
	Elf Tru Scaffol Power Minor	ding Tools		as needed as needed as needed
	PROPOSED REHABILITATION OF LAZARO DAY CARE CENTER			
	Equipn	nent	Capacity	Number of Units
	Elf Tru Scaffol Power Minor	ding Tools		as needed as needed as needed
	PI	ROPOSED REHAB	ILITATION OF JONA CENTER	AVILLE DAY CARE
	Equipn	nent	Capacity	Number of Units
	Weldin Elf Tru Power			1 1 as needed
	Minor			as needed

	PROPOSED REHABILITATIO	ON OF NAGKAIS E CENTER	SANG NAYON I DAY
	Equipment	Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools		as needed as needed as needed
	PROPOSED REHABILITATION	N OF T.S. CRUZ	DAY CARE CENTER
	Equipment	Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools		as needed as needed as needed
	In addition, the bidder must ex notarized stating that the foregoin the project until its completion. Ple	g equipment shall	be used exclusively for
12	[Insert Value Engineering clause if	allowed.]	
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:		
	a) The amount of not less than Php 139,479.52 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 l (5%) of ABC if bid security	•	equivalent to five percent
19.2	Partial bid is not allowed. The infr and the lot shall not be divided evaluation, and contract award.		
20	No additional requirement.		
21	Additional Contract Documents r 1. Construction Schedule and S-co 2. Manpower Schedule, 3. Construction Methods,		oject as required:
	4. Equipment Utilization Schedule 5. PERT/CPM or other acceptal included in the submission of Tech	ole tools of proje	ect scheduling, shall be

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

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are

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

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



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



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PROJECT NAME: LOCATION:

PROPOSED REHABILITATION OF JONAVILLE DAYCARE CENTER BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform confrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- 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 venfication / 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.
- Mobilization and Demobilization (if applicable)
 - Mobilization shall include all activities and related costs for transportation of personnel, accument, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utilities.
 - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

- Temporary facilities shall be provided and maintained including sanitary facilities and tirst aid stations.
- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demotished, hauledout and disposed properly.
- k. Adequate construction safety and health projection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - The medical room shall be provided in weterproof; 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 tocation of the medical room and any other arrangements shall be made known to all employees by posting on prominent tocations suitable notices in the site.
 - Additional safety precautions shall be provided in the observance of pandemic.
 Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to evoid untoward incidents / accidents
- m Final cleaning of the work shall be employed prior to the final aspection 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 deteils. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B Removal / demolition of existing structures shall be diane 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.
- 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. ARCHITECTURAL WORKS

A. PAINTING WORKS

- All primers, thinners and pulty, 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.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including mesonry wall shall be thoroughly cleaned, pultied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. All exposed finish hardware, lighting tixtures 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

IV. SANITARY / PLUMBING WORKS:

- 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 atom: drainage, submittals, shop drawings, pipes, filtings, 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 pleas and program of work.
- E Install equipment in strict accordance with manufacturers written recommendations
- Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.

- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be eccepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against demage 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 deened 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 papework 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-tasted at the appropriate test pressure.
- T The Sanstary Contractor must carry out any additional tests required by the end-user anti/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m, of water higher than the fest section and wait for 15 min, then check for leakage at every joints.
- V. Testing of dramage systems shall be carried out in sections by dividing the system borizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Dramaga pressure pipe shalf 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/SEL7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freadom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- 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 toads and stresses from movement will not be transmitted to connected equipment.
- CC Install hangers and supports to provide indicated pipe alopes and to not exceed maximum pipe deflections allowed by ASME 831.9 for building services piping

V. 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 untity 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 estached 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 Erectrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinots.
 - F.2.1 Refed for environmental conditions at installed location.
 - i Indoor Dry and Clean Locations: NEMA 250, Type 1
 - Qutdoor Locations: NEMA 250, Type 3R.
 - iii. Kilchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - Other Wet or Damp Indoor Locations NEMA 250, Type 4
 - Indoor Locations Subject to Dust, Falling Dirt, and Dripping.
 Nancorrosive Liquids: NEMA 250, Type 5 or Type 12.
 - F.2.2 Front: Secured to box with concealed thm 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 celling or tiper.
 - 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.

- 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 topocat.
- ii. Back Boxes. Galvanized steel Same finish as panels and time

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

Propared by:

Checked by

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Planning and Programming Division.

Planning and Programming Division



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



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TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF LAZARO DAYCARE,

CENTER

LOCATION : BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

J. 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 ansing therefrom.
- b. Drewings, specifications codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- 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 reteined and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra componisation 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 datails. All materials not conforming to the requirements of these specifications shall be considered as defective.
- All equipment and installations shall meet or exceed minimum requirements of the standards and codes
- Mobilization and Demobilization (if applicable)
 - i Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating suppties to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utilities
 - All facilities shall be near the job sile, 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, ravings and proper signages.
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period
- Upon completion of the work, the temporary facilities shall be demolished, hautedout and disposed property.
- Adequate construction safety and health protection shall be provided at all times during the
 execution of work to both workers and property
 - A fully trained Medical Aide shall be employed permanently on the sits who shall be engaged solely from medical duties
 - In 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.
 - Additional safety precautions shall be provided in the observance of pandamic Protocols set-forth by the government shall be strictly followed.
- 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, times, levels and dimensions shall be ventiled 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. CONCRETE WORK

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

c. Materials

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

d. Proportioning and Mixing.

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

Cement : Sand : Gravel

- Class 'A' 1 : 2 : 3
 Class 'B' 1 : 2 : 4
- Class "C" 1: 2 ½
- ii Concrete mixture to be used for concrete shall conform with the structural requirements
- Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

- General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be 1/4" waterproof plywood and form lumber.
- ii. Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of morter, the grout or other foreign material.
- iii Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further demage.

f. Placing Reinforcement;

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from toose, flaky

rust and scale, oil grease, day and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and fies. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the dispoioration or detendration of the concrete.

g. Conveying and Placing Concrete:

- i. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the malenal to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal tayers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete concrete shell be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and lamping and vibrators shall not be used.
- v Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same demonstration as used in concrete shall be first deposited to cover the surfaces.

h Curing

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

j Finishing

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

B. MASONRY

a. Masonry Units (CHB):

100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.

Use 400 pgi for non-load bearing blocks and 700 psi for load bearing blocks where required.

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

b Sand:

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

c Mortan

One part 'Portland' cament and two parts sand and water but not more than three parts sand and water.

d Plaster bond

Apply piester bond to all wall erea.

C. METAL WORK

Description

Metal works shall conform to the approved plans and to the Standard Specifications.

B. Reference Standards

Comply with the latest edition of the following as applicable, unless otherwise specified or modified.

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 1978
 Specification for the Design, Fabrication and Erection of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges, Specification for Architecturally Exposed Structural Steel.
- AMERICAN WELDING SOCIETY (AVVS): Standard Welding Symbols A2 068; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joints using ASTM A-325-769 Bolts.
- STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications

c. Source Quality Control

Errors of Shop Drawings, fabrication, correct fitting and alignment of the various metal items or component members shall be the responsibility of the Contractor. However, the Contractor shall permit the Architect or an Independent inspection agency, if engaged by the Owner, to inspect work in progress in his shop. Such inspections shall not relieve the Contractor of his responsibility to furnish materials and workmanship in accordance with the Contract Documents.

d. Product Delivery, Handling and Storage

Handle and store in such manner as to prevent damage or disfigurement, Store finished items or components above ground on platforms, pallets or other supports and protect from harmful elements.

e. Protection

The Contractor shall protect any existing work subject to damage during the installation of the specified work and shall adequately protect specified work during installation.

f. Field Quality Control

Facilities shall be provided by the Contractor as needed for the proper inspection of the specified work, including temporary platforms, hoists, protective devices, electric current, etc. Improper workmanship, as determined by the Architect shall be corrected and replaced, at no additional cost to the Owner.

g. Materials

Products shall conform to the respective reference specifications and standards and to the requirements specified herein:

- STEEL AND IRON: If not specified otherwise, use standard millfinished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
- BOLTS, NUTS, STUDS AND RIVETS: ASTM A 307 & A 325.
- SCREWS; Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. 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.

Measurements

Before fabrication, provide necessary field measurements and verify all measurements.

j. Metal Surfaces

Shall be clean and free from all scare, flake, rust, and rust pitting; well-formed and finished to chape and size, with sharp lines, angles 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.

k. 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.

1. Shop Fabrication

Fabrication and assembly shall be done in the shop to the greatest extent possible.

m. Submittals

Shop Drawings, Submit along with catalogue, cuts, templates and erection and installation details, indicating thickness, type, grade, type of metal and dimensions. Show construction details, reinforcement, anchorage, and installation with relation to the construction.

n. Qualification of Welders

In accordance with AWS D1.1 with procedures, materials and equipment of the type required for the work.

Defivery and Storage

Protect from corrosion, deformation and other types of damage. Store items in an enclosed area free from contact with soil and weather. Contractor shall replace and removed damage items with new items.

p. 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 lack welding is permitted. Do not lack weld exposed to connections.) Grind smooth visible weld in finished installation.

q. Metal Purlins

Metal purling shall be of high grade galvanized steel with minimum tensile strength of 275 MPA, 1.4mm in thickness.

D. 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 socured to the purios with min. 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 be riveted to 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 Ra-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purities with min. 2 ½" max. 3" long Yek 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 rooking sheets adjacent to concrete hoticw block and other masonry walls such as properly 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.

E. 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.

F. 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

- 600mm x 600mm Homogeneous Floor Tites including file edhesive
- 50mm Concrete Topping for Tiles
- c 300mm x 300mm Homogeneous Wall Tiles

B. CEILING FINISHES

6mm thick Fiber Cement Board including Metal Framing

C DOORS & WINDOWS

a. Follow as per approved plan and specifications

D. PAINTING WORKS

- Att primers, thirmers and putty, also waterproofing for internal and external application shall be the same brand as the specified material
- Application shall be as per paint Manufacturer's specification and recommendation
- Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works
- 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.
- 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:
 - Bit 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 timited 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 operations.
 - 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.
- 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 stact accordance with manufacturers written recommendations
- 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 salecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales 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 demage 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.
- 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 sandary 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 dearance of debris.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed

- P. The Contractor shall carry out hydreulic 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. Hydrautic 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 appearatus 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 replaced during the proework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional 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 filting for three ficors/storeys required for testing.
- W. Oreinage 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 toads and stresses within limits and under conditions indicated according to ASCE/SEL7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems to permit freedom of movement between pipe anchors, and to feditials action of expansion joints, expansion loops, expansion bends, and similar units.
- 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 bers through openings at top of inserts.
- 6B 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 tabel shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

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 Vioration 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.
 - Indoor Dry end Clean Locations. NEMA 250, Type 1
 - ii. Ouldoor Locations: NEMA 250, Type 3R
 - Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - Other Wet or Damp Indoor Locations NEMA 250 Type 4
 - 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 firesh as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
 - F 26 Finishes:
 - Panels and Trim Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's stendard two-coat, beked-on finish consisting of prime coat and thermosetting topocat.
 - Back Soxes: Galvanized steel Same finish as panels and trim.
 - 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 Extre-Capacity Neutral Bus. Neutral bus rated 200 percent of phase bus and UL tisted as suitable for nonlinear loads.

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CITY ENGINEERING DEPARTMENT



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TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF NAGKAISANG NAYON 1 DAY CARE

CENTER

LOCATION: BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

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.
- Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- c. Should there be any change(s) in grawings 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 Covernment.
- 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.
- 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.
- Mobilization and Demobilization (if applicable).
 - Mobilization shall include all activities and related costs for transportation of personnel equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - ii. Demobilization shall include all activities and coats for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removat and site clean-up of offices and other facilities assembled on the site specifically for this contract

 Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.

Temporary Facilities and Utilities.

- All facilities shall be near the job site, where necessary end shall conform to the best standard for the required types.
- Temporary facilities shall be provided and maintained including sandary facilities and first aid stations.
- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- 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.
- 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 pensionently 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.
 - 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.
- 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 certrication 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 demensions 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 compected wetting, famping and rolling.

(ii). CIVIL (STRUCTURAL WORKS)

A. MASONRY

- a. Masonry Units (CHB):
 - 109mm thick for all interior walls and lexteror walls unress otherwise indicated.
 - Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
 - iii. Where full height watts are constructed with concrete holiow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized well due to height & other considerations.

Sand.

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

c Modar:

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

d. Plaster bond:

Apply plaster bond to all wall area

B. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purions with min. 2 W max 3' long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveled to the rooting sheets.
- All roofing sheets adjacent to concrete hollow block and other masonry walls such as properly line firewalls, shall be provided with Gauge 28 pre-painted plain G.t. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

C. WATERPROOFING

Waterproofing:

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

b. Testing:

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

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

IV. ARCHITECTURAL WORKS

A. TILE WORKS

- 80th broken and unbroken old tiles must be chip-off
- Surface should be smoothen & clean.
- Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan-

B. PROVISION OF CABINET

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

C. FABRICATED DOORS & WINDOWS

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

D. PAINTING WORKS

- All primers, thinners and pulty, also waterproofing for internal and external application shall be the same brand as the specified material.
- Application shall be as per paint Manufacturer's specification and recommendation.
- 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.
- All surfaces including mesonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polyshed masonry wall shall be treated with Neutralizer.
- Alt 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 graft paper.

V. SANITARY / PLUMBING WORKS

- 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:
 - 8.1 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.
 - 8.2 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, submittels, 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 defailed 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 errangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales 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, property packed and protected against demage 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 senitary 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. Cleening and flushing shall be carried out in sections as the installation becomes completed.
- P The Contractor shall carry out hydrautic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactionly 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 titted 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.
- 3 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 retested 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 storis/storeys required for testing.
- W. Drainage pressure pipe shall be hydrautic tosted at minimum pressure 50 psr.
- 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/SEL7
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete elebs or affect to structure! steel. Install additional attachments at concentrated toads, 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 faster 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 B37.9 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 Orawings, 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 tabel shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

F. PANELBOARDS

- F.1 Fabricate and test panetonards 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
 - Indoor Dry and Clean Locations NEMA 250, Type 1.

- ii Outdoor Locations: NEMA 250, Type 3R
- Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless, steel.
- Other Wet or Damp Indoor Locations: NEMA 250 Type 4.
- 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 from 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 (nish as panelboard front with flanges for attachment to panetboard, 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.
 - Panets 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 topocoat
 - Back Boxes: Gatvanized steel Same finish as panels and trim.
 - Fungus Proofing: Permanent fungicidal treatment for overcurrent projective 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-carcuit 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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TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF ST. ANDREW DAY CARE CENTER

LOCATION:

BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b. Orawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d. Photographs shall be taken as when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra
 compensation and extension of time shall be given due to negogence 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.
- 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 coats 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, workmentike manner by competent workmen. Provide a competent, experienced full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utilities
 - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
 - Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
 - Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 - 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.
 - Upon completion of the work the temporary facilities shall be demolished, hauled-out and disposed property
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely 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 erea 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.
 - Additional safety precautions shall be provided in the observance of pandamic Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent properly 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. MASONRY

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

\$-1, washed, clean and greenish in color.

c Morter:

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

d Plaster bond

Apply plaster bond to all wall area.

B. WATERPROOFING

a. Waterproofing:

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

b. Testing:

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

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

IV. ARCHITECTURAL WORKS

A. TILE WORKS

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

B. PROVISION OF CABINET

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

C. FABRICATED DOORS & WINDOWS

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

D. PAINTING WORKS

- All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material
- 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, linishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- All surfaces including masonry wall shall be thoroughly cleaned puttied, sandpepered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- 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).
- 8 Supply, installation and testing of the following:
 - 8.1 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.
 - 8.3 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
 - 8.4 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.
- 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

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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.

- t. 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, property 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 senitery fittings and pipework shall be cleaned efter installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, radded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- 2. 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
- O. 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 linishes are installed.
- 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 than that section of pipework or equipment shall be retested at the appropriate test pressure.
- T. The Senitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Oramege 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 Orginage pressure pipe shall be hydraulic tested at minimum pressure 50 ps.
- 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/SEL7
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping. systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units

- Install lateral bracing with pipe frangers and supports to prevent swaying.
- AA. Install building attachments within concrete stabs or attach to structural steet. Install additional attachments at concentrated toads, including valves, flanges, and strainers, NP\$ 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete insents before concrete is placed, fasten insents to forms and install reinforcing bars through openings at top of insents.
- B8. 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 831.9 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.
 - Indoor Ory and Clean Locations: NEMA 250, Type 1.
 - Outdoor Locations: NEMA 250, Type 3R.
 - Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - 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, metch box dimensions, for flush-mounted fronts, overlap box
 - F.2.3 Hanged Front Cover. Entire front trim hinged to box and with standard door within singed from 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 timish as panelboard enclosure integral with enclosure body. Arrange to isolate individual panel sections
- F.2.6 Finishes:
 - Panels and Trim. Steel and galvanized steet, factory finished immediately after cleaning and prefreating with manufacturer's standard two-coat, baked-on finish consisting of prime cost and thermosetting topcoat
 - ii. Back Boxes: Galvenized steel Same finish as panels and frim
 - 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, 58 percent conductivity
 - F 4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bended to box.
 - F.4.3 Newtral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and Ut. listed as suitable for nonlinear loads.

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TECHNICAL SPECIFICATIONS OUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: LOCATION:

PROPOSED REHABILITATION OF TS CRUZ DAY CARE CENTER

BARANGAY SAN AGUSTIN, DISTRICT 6, QUEZON CITY

I. GENERAL RÉQUIREMENTS

- 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.
- Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency
- of Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shalf be conducted to validate the scope of works. No extra
 compensation and extension of time shall be given due to negligence or inadvertence.
- 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 Ail equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- Mobilization and Demobilization (if applicable)
 - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - 5i. 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 workman. Provide a competent expensed, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utildes
 - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

- Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication
- Temporary enclosure shall be provided within the construction site with adequate guard lights, realings and proper signages.
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauledout and disposed properly
- Adequate construction safety and health protection shall be provided at all times during the
 execution of work to both workers and property
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - a. 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 maters and a glazed window area of at least 2 square maters.
 - 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.
- 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.

IL 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 / demotition 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 wetling, tamping and soiling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

- a. Delivery, Storage, and Handling. All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
- Unless otherwise specified herein, concrete works shall conform to the requirements
 of the ACI Building Code. Full cooperation shall be given on trades to install embedded.

items. Provisions shall be made for setting items not placed in the torms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

Materials

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

d Proportioning and Mixing

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

Cement: Sand: Gravei

- Class 'A' 1 : 2 3
- Class '8' 1 · 2 · 4
- Class 'C" 1 : 2 ½
- Concrete mixture to be used for concrete shall conform with the structural requirements
- Moving concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

- i. General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be mainteined rigidly in correct position. Forms shall be sufficiently light to prevent loss or mortar from the concrete. Forms shall be '%' waterproof plywood and form lumber.
- ii Cleaning of Forms before placing the concrete, the contact surfaces of the formed half be cleaned of encoustations of morter, the grout or other foreign material.
- Removal of Forms = forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, cit grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately

and secured in place by use of metal or concrete supports, specers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

g Conveying and Placing Concrete:

- i. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- iii. Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compected into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- III Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set, and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spacing and tamping and vibrators shall not be used.
- v. Psacing Concrete through reinforcement In pracing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of sleet near the forms makes placing difficult, a layer of mortar of the same coment-sand ratios as used in concrete shall be first deposited to cover the surfaces.

h. Curing

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

.. Fin:shing

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

B. MASONRY WORKS

a. Masonry Units (CH8)

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

Use 400 osi for mon-load bearing blocks and 700 psl for load bearing blocks where required.

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

b. Sandi

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

c Morter

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

d. Plaster bond:

Apply plaster bond to all well area.

C. METAL WORKS

a. Description

Metal works shall conform to the approved plans and to the Standard Specifications.

b. Reference Standards

Comply with the latest edition of the following as applicable, unless otherwise specified or modified.

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978
 Specification for the Design, Fabrication and Erection of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges;
 Specification for Architecturally Exposed Structural Steel.
- AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2 068; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joists using ASTM A-325-76s Bolts.
- STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual Vol. 2, Systems and Specifications.

c. Source Quality Control

Errors of Shop Drawings, fabrication, correct fitting and alignment of the various metal items or component members shall be the responsibility of the Contractor. However, the Contractor shall permit the Architect or an independent inspection agency, if engaged by the Owner, to inspect work in progress in his shop. Such inspections shall not relieve the Contractor of his responsibility to furnish materials and workmanship in accordance with the Contract Documents.

d. Product Delivery, Handling and Storage

Handle and store in such manner as to prevent damage or disfigurement. Store finished items or components above ground on platforms, pallets or other supports and protect from harmful elements.

e. Protection

The Contractor shalf protect any existing work subject to damage during the installation of the specified work and shall adequately protect specified work duping installation.

Field Quality Control

Facilities shall be provided by the Contractor as needed for the proper inspection of the specified work, including temporary platforms, hoists, protective devices, electric current, etc. Improper workmanship, as determined by the Architect shall be corrected and replaced, at no additional cost to the Owner.

g. Materials

Products shall conform to the respective reference specifications and standards and to the requirements specified herein:

- a) STEEL AND IRON: If not specified otherwise, use standard millfinished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
- b) BOLTS, NUTS, STUDS AND RIVETS: ASTM A 307 & A 325
- c) SCREWS: Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. 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.

Measurements

Before fabrication, provide necessary field measurements and verify all measurements.

Metal 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, angles 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 instellation. 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.

k. 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.

Shop Fabrication

Fabrication and assembly shall be done in the shop to the greatest extent obssible.

m. Submittals

Shop Drawings: Submit along with catalogue, cuts, templates and erection and installation details, indicating thickness, type, grade, type of metal and dimensions. Show construction details, reinforcement, anchorage, and installation with relation to the construction.

Delivery and Storage

Protect from corrosion, deformation and other types of damage. Store items in an enclosed area free from contact with soil and weather. Contractor shall replace and removed damage items with new items.

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.

Metal Purlins

Metal purlins shall be of high grade galvanized steel with minimum tensile strength of 275 MPA, 1.4mm in thickness.

D. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pre-painted GI. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purios with min. 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 riveled to the roofing sheets.
- b. All roofing sheets adjacent to concrete hollow block and other masonry watts 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 expund the fasteners.

E. WATERPROOFING

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. 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. FLOOR AND WALL FINISHES

- 600mm x 600mm Non-Skid Homogeneous Tiles
- b 400mm x 400mm Non-Skid Homogeneous Tiles
- d. 400mm x 400mm Homogeneous 74es
- d. 6mm thk, Double Wall Fiber Cement Board including Metal Framing.

B. DOORS

a. Follow as per approved plan and specifications

C. PAINTING WORKS

- All primers, thinners and putty, also waterproofing for internal and external application shall be the same brend as the specified material.
- Application shall be as per paint Manufacturer's specification and recommendation.
- Provide all drop cloth and other covering requisite for protection of floors, walks, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's instructions and Specifications.
- All surfaces including mesonry wall shall be thoroughly deened, putted, sandpapered, rubbed and polished; mesonry wall shall be treated with Neutralizer
- f Att exposed finish hardware, tighting fixtures and accessories, glass and the tike shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g At other surfaces endangered by stairs and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- Compty 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, insufation, 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 Sort waste and vent system complete in all respect including but not limited to connection to existing sewer submittals, shop drawings, pipes filtings, 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 qualitied 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 fecilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be exdered
- 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 weekening due to handling, adverse weather or other circumstances and its 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 whist in storage or during erection shall be rejected and replaced without extra cost.
- M. All sendary fittings and procwork 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 deons.
- 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
- Ontractor shall provide suitable test numps and arrange for a supply of water required in connection with testing of pipework. The test nump 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 withstend the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanstary Contractor must carry out any additional tests required by the end-user and/or approving agency
- U Dramage pipe shall be tested by filling the pipe with 3m, of water higher than the test section and wait for £5 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/SEt?
- 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 bencs, and similar units.
- Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural ateal. Install additional attachments at concentrated loads, including valves, franges, 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 without be transmitted to connected equipment.
- CC, Install hangers and supports to provide indicated pipe stopes and to not exceed maximum pipe deflections allowed by ASME 631.9 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)
- 8 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, workmankie 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

- Fig. Fabricate and test pane-boards according to IEEE 344 to withstand seismic forces defined in Oxvision 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively
- F.2 Englosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - F.2.1 Rated for environmental conditions at installed location
 - Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - Outdoor Locations NEMA 250, Type 3R.
 - iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel
 - Other Wot or Damp Indoor Locations NEMA 250, Type 4.
 - Indoor Locations Subject to Dost, 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 tem hinged to box and with standard door within bringed trim cover.
- F.2.4 Skirl for Surface-Mounted Panel boards: Same gage and fin-sh as panel board front with flanges for attachment to panel board, wall, and ceiling or floor.
- F.2.5 Guiter Extension and Barrier Same gage and finish as panel board enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

F 2 6 Finishes:

- i. Papers and Trim: Steel and galvanized seet, factory finished immediately after cleaning and prefreating with manufacturer's standard two-coat, beked-on finish consisting of prime coat and thermosetting topcost
- ii. Back Boxes Galvanized steel Same fireth as panels and tom
- Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components
- F.2.7 Directory Card: Inside panel board 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:
 - 6.4.1 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.

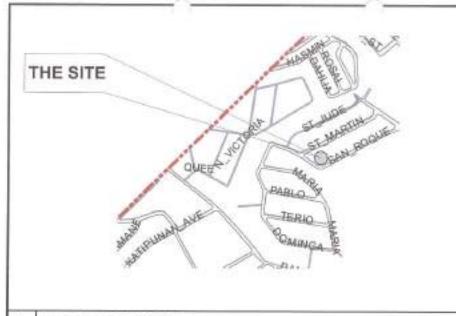
VII. MECHANICAL WORKS (IF APPLICABLE)

- 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.
- El 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.

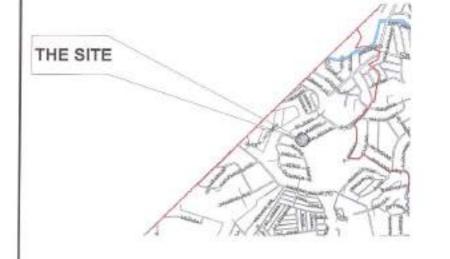
CARMINA KAYFURAGGANAN Planning and Programming Division M JOCELYN A NAONG Planning and Programming Division

Section VII. Drawings

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



LOCATION MAP SCALE NTS.



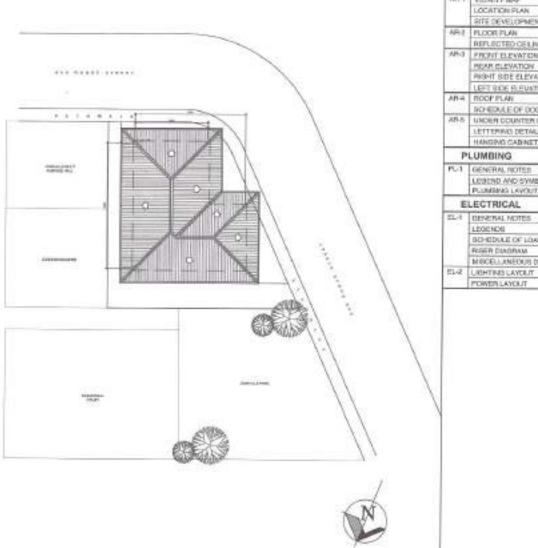


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SCALE NTS.

SITE DEVELOPMENT PLAN

SCALE NTS.

PARTICIPATE OF THE PARTICIPATE O

Republikang Pilipinas Lungsod ng Quavon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF JONAVILLE DAY CARE CENTER

PROJECT TIME

LDCATOR: WHERE INVESTMENT REPORT THE THEFT S , CLEEKINGTY







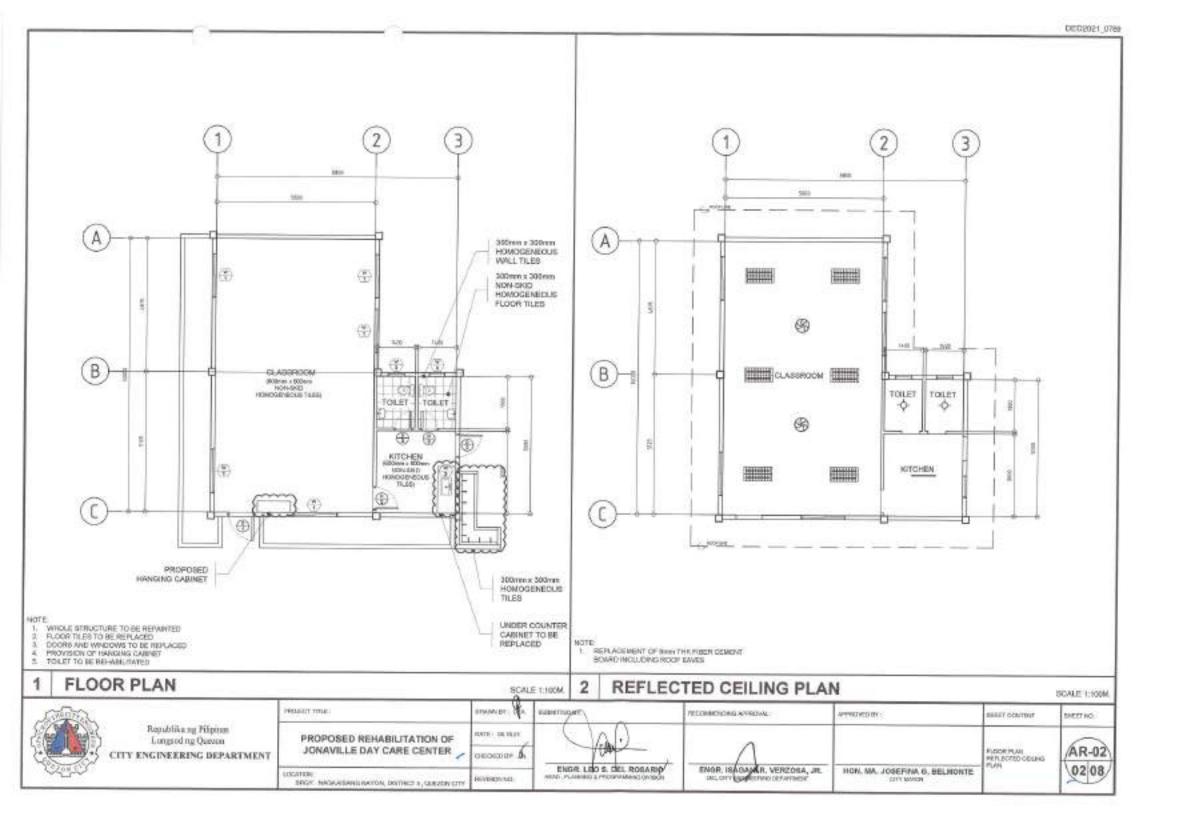
ANDREWS SHORESTAN

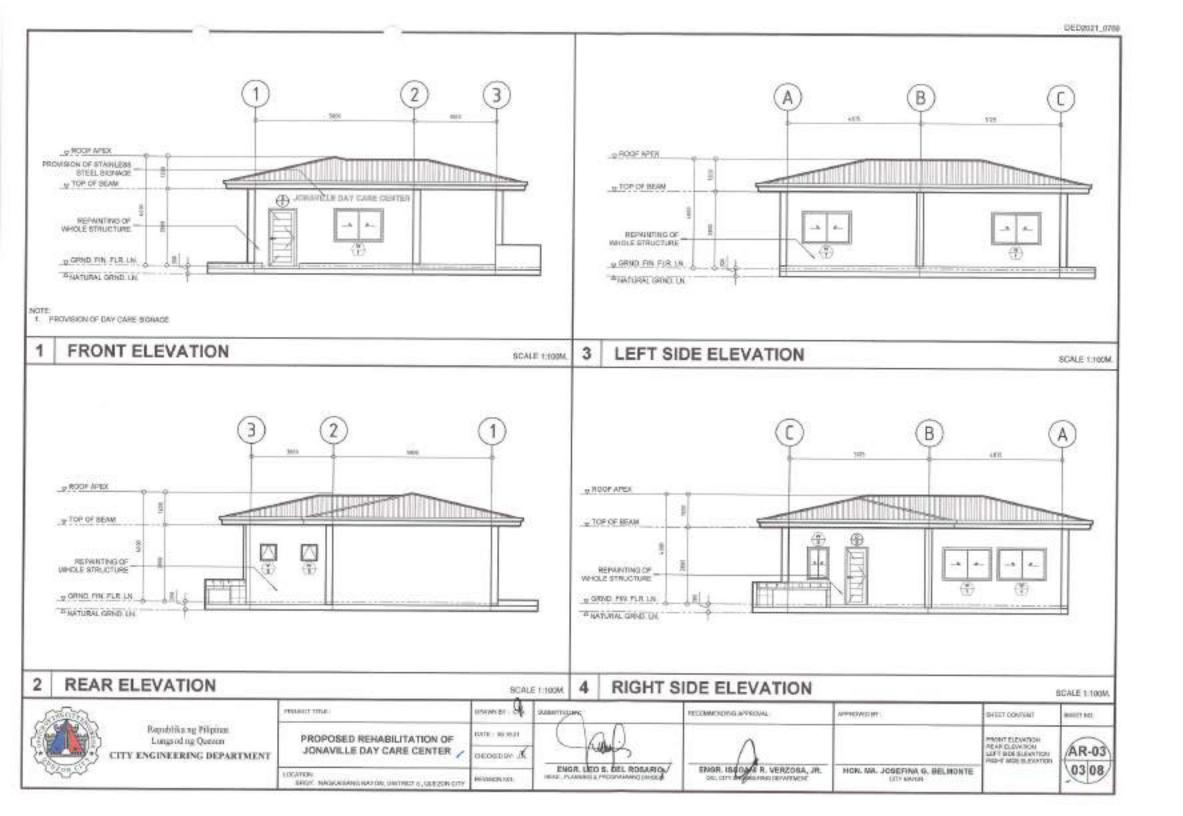
LECKTION WAP VICENTY MAP SITE OCHOLOPHENT PLAN

DISTROD TERMS

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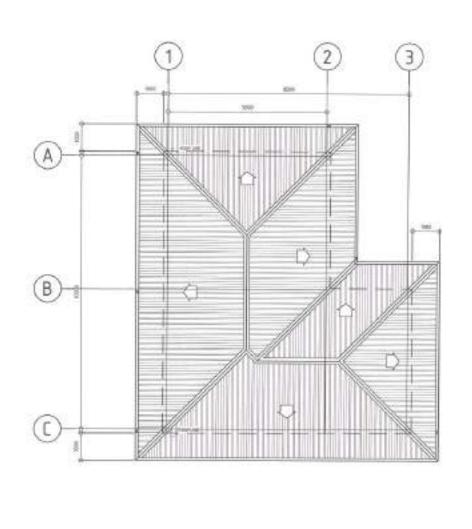




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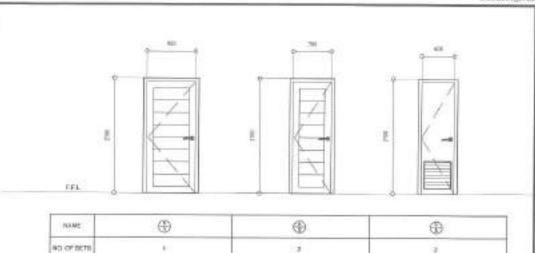
PVC DOOR WITH LOUVERS.

TOURT



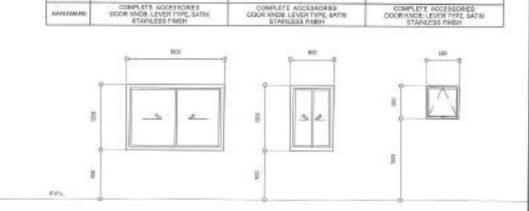
PRODUCT TITLE

DOCUMENT.



FRISE, DOOR

KITCHES



HAME	⊕	⊕	⊕
HO OF BETS	1	1	7
OEEGRIPTION .	ALCOHOLO FEALE POWER COLATED SLESHIS REVISOR WITH BUILD THE CLEAR GLACE	ALIMINUM FRAME POROCE COATED SLID NG WINDOW WITH DOWN THE CUCAR GLASS	ALIMENUM PHAME PROVIDER CONTED AWARD WINDOW PATH BINS THE GLEAN GLASS
LOCATION	CLASSIFICON	клонен	tour

WYTENED BY

NOTE:

1. DOWNSPOUTS TO BE REPLACED.

ROOF PLAN

SCALE 1:100M.

SCHEDULE OF DOORS AND WINDOWS

PAREL DOOR

CLASSKIDOM

BCALE 150M \$4600 MG



Republika ng Pilipinas Lungsording Quarem CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF

JONAVILLE DAY CARE CENTER

BROW RADIOWANG RAPIDA CHERRITY CURRON CITY

BANKTING EX.

DATE: HE WAY

GROSSOW A

PETROPHO,

ENGR. LBQ S. DBL RDSARED

DESCRIPTION

LOCATION

HARDWARE

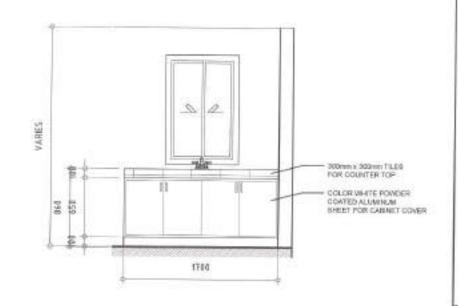
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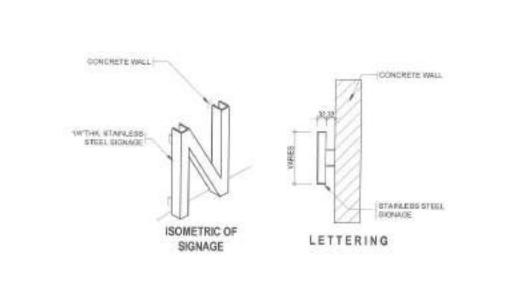
HOSP PLAN SO-ESUAZ OF SOORS AND HIRLDOWN HON, MA, JOSEFINA G. BELMONTE

GT1 MVIOR

тиалиро тэзне

AR-04 04 08

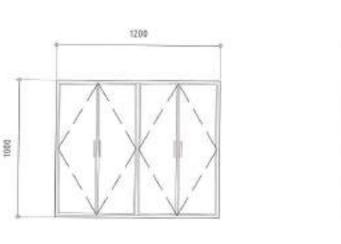




000mm HIGH SPLASH BOARD TILES 25MM THICK RC SLAB COUNTER W/ 600 X 600MM CERAMIC TILE (VERIFY STRUCTURAL DETAIL) 360mm x 300mm COUNTER TALES 300mm x 300mm TILES (SPLASH BOARD) CEMENT MORTAR 55mm x 75mm COLOR WHITE POWDER COATED FINANING FOR GABINET COVER COLOR WHITE POWDER COATED ALUMINUM SHEET FOR CARINET COVER

MODATEM:

LETTERING DETAILS





UNDER COUNTER CABINET DETAILS

SCALE 1:30M.

HANGING CABINET DETAILS RECOMMENDESS APPROVAL

SCALE 1.20M. 0402340

SCALE 1:NTS.

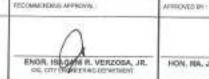
Republika ng Pilipinas Lungsod mg Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF JONAVILLE DAY CARE CENTER

BROY, NARKOBAND NAVOK, DESTRUCT & GLEDNINGSTY

SERVICE SERVICE AC SECUROUS HEMBOURO.

ERMANNEY OF

SUBSTRIBUTE. ENGR. LEG S. OFL ROSARIO



DETAILS HON, MA. JOSEFINA G. BELWONTE.

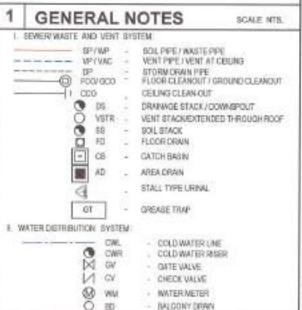
EIFY MAYOR

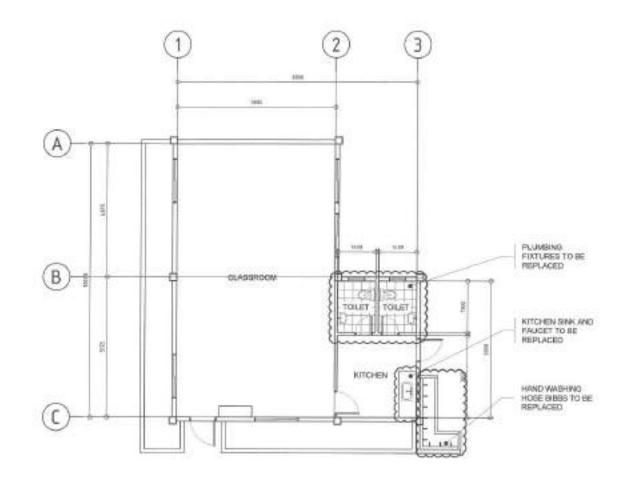
CABART DETAILS LETTERAD DETAILS MARKING CARRIEST

энепт сонтакт



- ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PHILIPPINE PLUMBING. CODE, THE NATIONAL BUILDING CODE, BULES AND REGULATION OF COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED THE ENGIRLARCH SHALL BE NOTIFIED. IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOGATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT. PROPOSED SAMITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS. OTHERWISE SPECIFIED. WITH THE MANUFACTURER'S INSTRUCTION.
- SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE
- THE CONTRACTOR SHALL VERBY ALL EXISTING STILLIES AT SITE AND COORDINATE THE WORKS WITH THE SEMERLINE EFFLUENT DISPOSAL POINT AND WATER UNE SERVICE CONNECTING POINT.
- ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY RUBHED AND DISINFECTED WITH LIQUID CHOLORINE OR HYDROCHLORIDE SOLUTION.
- ALL WATER PIPES SHALL SE HYDROSTATICALLY TESTED TO A PRESSURE 1-1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
- ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY. TESTED AT LEAST 3.0 MTS. HEAD TO EVISURE THAT THE SYSTEMARE. WATER TIGHT.
- AU. DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLINETER. UNLESS OTHERWISE SPECIFIED.
- ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.





- PLUMBING FOLTURES TO BE REPLACED.
- 2. KITCHEN BINK AND PAUDET TO BE REPLACED.
- 3. HAND WASHING HOSE BIRBS TO SE REPLACED.

LEGENDS

SCALE MTS

PROJECT TITLE

PLUMBING LAYOUT

SCALE 1-100M



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF JONAVILLE DAY CARE CENTER

DRIGHT, WAGINASSANG NAYON, DISTRICT STIGUEZON DIFF

DIMMNITY: WA DATE: BESKEN AL YESTER NEVERON NO.

SCHMITTED BY ENGR. LIED S. DEL ROSARIO THE PLANSAGE PROGRESSION



WIRWAN, NOTES LEGISLO AND SYMBOLS TUORINI DARBROUT HON, MA, JOSEFINA G, BELMONTE

EXTY MAYOR

WANTED CONTRACT

APPROVED BY:

PL-01 06 08

SPEET NO.



- ALL ELECTRICAL WORKER SHALL BE DONE OF ACCORDANCE WITH THE PROVIDENCE OF THE LATEST EDITION OF THE HALL PRINCE.
 ELECTRICAL CODE. THE LAWS AND DECREMANCES OF THE LOCAL CODE ENFORCES AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL PORTER INSTITUTIONS. LITLITY COMPANY.
- THE CONTRACTOR GAILL SECURE ALL FERM TO AND PAY ALL FIRST PROJUBILITY ON THE WORK, AUG GHALL, PLANSING THE OWNERS.
 THROUGH THE DIGHTERS, FRAIL CERTIFICIES OF BLACTHICIE, WORKSTEIN, AND INTRODUCE, FROM PROPER COVERNACHT AUTHORITY IS NOW COMPACTION OF MICH.
- ALL EMBEDDED BRANCH CIRCUITS SHALL SE INFO CONDUITS AND FOR CONSSED HISTALLATION (HIGH, BE INC. BUPPORTED BY CONDUIT CLAMPS OVERY TO HILLINGTON.
- PALE STREET SHALL SE PROMISIO BY THE CONTINCTOR WHENEVER INCREMENT TO FACULTATE WIRD FALLING EVEN IF THOSE ARE
 NOT INSIGNATED IN THE HUMBER FOR APPROXIME. FROM TO FASTICATION, LOCATION OF PALESCESS SHALL SE APPROXIMENT
 THE ARCHITECTURISHED AND NUCL SE REPUBLIED ON THE WELLS. FALLING TO PALESCESS SHALL SE APPROXIMENT
 THE ARCHITECTURISHED AND NUCL SE REPUBLIED ON THE WELLS. FALLING.
- 4. ALL POWER OUTLETS AND SHITCHES GIVILLEE BROUNDING THE INTHIPAWALES, BUSTOFOR 2007.
- 8 PROVES GROUND FAULT CLERRAIT INTERPREPTER CARCUT BRAVER FOR LOUGH MURIED GOOD ONTHE PLAN.
- ALL INFORLEC CORDULTS, CHRISTS AND HOLIMANT SHALL BE PROPERLY GROUNDED HID BOLDGO.
- E. LIFE RES CONTRIBUTED MOTHER MOUNTING FEIGHT FOR WALL INDUSTED DEVICED SHALL BE AS FOLLOWS:

HOCOTYVOLE OUTLET - 300 MM AFF , 1000M ABOVE WORKING COLLYGIN TELEPHONE CUTLET - 300 MM AFF CATY CUTLET - 300 MM AFF HOLEUSOME - 1000 MM AFF PARELESAME - 1000 MM AFF

- 4 RETER TO RECOVERY, PLANERS ME THE PROTECTION (INVESTED FOR INTERIOR AND CONTROL OF ECOPAGNE AS WILL AS THE R CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR HELPECTURE ECOTORS.
- TO ALL MATERIALISTIC RESIDENCE SELECTION OF THE DEST QUALITY, BRUND NEW AS SPECIFIED.
- 11. THE DRAWMOS AND STRONG ARE MITTHESD TO PRESENT GENERAL LAYOUT AND BROAD OUT, RETRESCRIPTION OF THE PROVESTIGHT OF NOT RECORDINGS. I RESCRIPTIONED ACTURE, LOCATIONS, LEYS, AND DISTANCES OF THE SOURMENT. THE SOURFACTOR IS HARRIEST REQUIRED TO MAKE SUCH ASSURED ACTURE AS DESCRIPT AS LOCATION. DISTANCES AND LIVELS AND SOURFACTOR SCHIPTION. PRUS CORPORTIONS.
- ANY DEPTHACE STREET THE PLANS AND SHOUTH CAUCHS SHALL SEGMENT TO THE STREET SHOW THE ENGINEER FOR CLASSICAL TOROGODICS.
- ALL LONTING WID CONSIDERED DUTLET CHICLTED BHILL BE LIKED, UM. THANKS COPPER WIRE UNLESS OF CRIME HOTED.
 HERBERT SIZE OF WIRE SHALL BE SIZES. MAY COPPER WHE. ALL MINES AND CARD IS SHALL BE COLOR CODED AS FOLLOWS.

LINE 1 - PEID LINE 2 - PEILOW HOUTHWL - WHITE GREENED - GREEN

MODES HAVE, CUTTERED, ENCLOSURE SHALL BE PREFECATED FROM STEEL WITH THE CHARGE AS PELLURES.
 MADRICH WITH OF THE WOOST SURFACE STEEL.

UP TO INCLUDING 152-9 KM OVER 155-95 MAY BUT THEIR OWN JOST OF SA 19 AWATED WITH HE TAI, PRIMER EPOLY AND TOPODAT GA 14 PAINTED WITH METHI, PRIMER EPOLY AND TOPODAT

DWB 857 SCAMP FOR DRIVING STREET

GA 12 PAWATED WITH METH, PRIHER EPORY AND TOPOCIAL

PROJECT TITLE

DARK BOTOTHINGS STREET OVER LIKEWIN

GA 16 PANYTED INTH METAL PRIMER 6 PORY AND TOPOCKT

- TAL ALL ELECTRICAL WORKS HEREIN DWILL BE ERICLYTED BY CAPE REMCED HER LIBERT THE DRINKS THE DRINKS OF A FULL THRE LICENSED SELECTRICAL EMBRICAR AND A CALLY ACCREDING BURCHMONE CONTRACTOR BY FORE MORKS SHALL SE NEATLY REACED. SECURELY PROTESSED AND RECIPIENCY PROSENS.
- 16. TYPE OF GRADICE ENTERWISE SHALL SE SINGLE PHASE. THIS WAS ILLIA DIRECTOR, AS HERTE, 2007 ACHORNIL.
- 47. CORDUTT IN NO CASE SHALL THE RELIES MORE THAN THE REQUIRE BY OF YOUR QUARTER BOSED INAMY ONC THAN ALL CONDUIT BEIORISHALL BE TRAILING BY LIBRE BY LIBRE SYSPHALIC RESIDENCE MIRRAR/SONORIO (RACKUS MOST SE EN ACCORDINGES TO THE CODE REQUIREMENTS.
- UPON-COMPLETION OF ELECTRICAL CONSTRUCTION MEDIAN RESIDENCE THAT AND PLECTROSHITY TEST BRILL BE PERFORMED BY THE CONTRACTION REJLEMY. IF THE RESTRICTION TO BE REPORTED IN DETAILS OF FEIGHBURFROAD BY THE SLADY CITY BROKESTERS DEPARTMENT REPRESENTATIVE. THE GROUND RESIDENCE FOR SLIC TRICAL SYSTEMS BOALL NOT BE MORE TRICAL COMMUNICATION GROUNDING RESIDENCES SHALL BY SERVED SHAD.

0	TROMA (ED BOLB 16 WOUTS
	SKIRW TROFFER LIGHT
_	75 LED 12004A4, 26 WATTS
Ф	DUPLEX CONNUMEROR DUTLET
0	ADD DUTLET
3	CDLNG FAV
I	PANEL BOARD
4	ONE GANG SWITCH (LIGHTS)
*55	SELECTOR: SWITCH (F.W.)
*botes	THREE MAY THREE GASC THRITH (USKIN)
Par	HOME RUN CIRCUIT RISEAUER

LP(NEW)

1; +34.85 impere

				10000	CDB	CLIF BELLE		141	RES AND KOMPAN	to
00780	LOAG DESCRIPTION	2. VOIC2	PERMIT	(HAPPERE)	AT	16		tauseo	200,012	MAR
								Chines	Par	rive
1	8 - TROFFER, 2 - BLAIR, 5 - TR, 2 - C-6684	0.00	1100	197	.11	50	1	2-1lant	1-5 North	Strend NO
3	7 - COMMINSTER CUTTLET	281	3308	544	.11	30:		2-33667	1-Stayer	Direct No.
1	ARL		2300	18.00	.10	90	1	1-15mg	1: Elegel	30 card NO
4	SPARIDEN	230	3000	435	60	90	- 1	-	-	-
100	PALEDMARTHER LDAD	12.576	2000	25.58						

ESRCIAT PROTECTION COMPUTATION: 1:+(5640/230 V + 25%(10); *125% OVER CURRENT PROTECTION. NSE: 60 AT, 2P CE BOLT-ON

MAIN FEEDER:

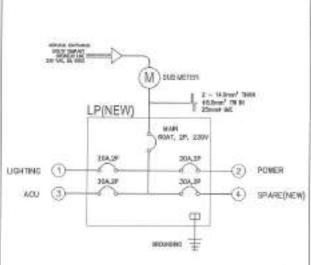
USE 1-14mm*THRW WIRE & 1-6 Onin*TW GROUND WIRE

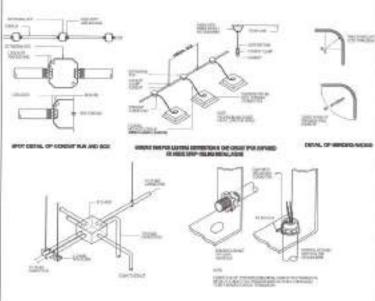
IN 25 min player TYPE

LEGENDS SCALE.NIS

LOAD SCHEDULE

SCALE: NTS







SCALE : NTS-

4 RISER DIAGRAM

SCALE: NTS

RECOMMENDING APPRICANG.

MISCELLANEOUS DETAILS

HE CONCEPTA

BCALE: NTS

INVESTIGATION.

Republika ng Pilipines Lungsod ng Queron CITY ENG INEERING DEPARTMENT PROPOSED REHABILITATION OF JONAVILLE DAY CARE CENTER

DOLTON STOP: MAGRAGANG HAPON, DISTRICT IS, CUEZON OTH ONNER EF. M. SERMITTELEN DATE: BE REST CHECKED BY M. PRINCE PRINCE TEAM

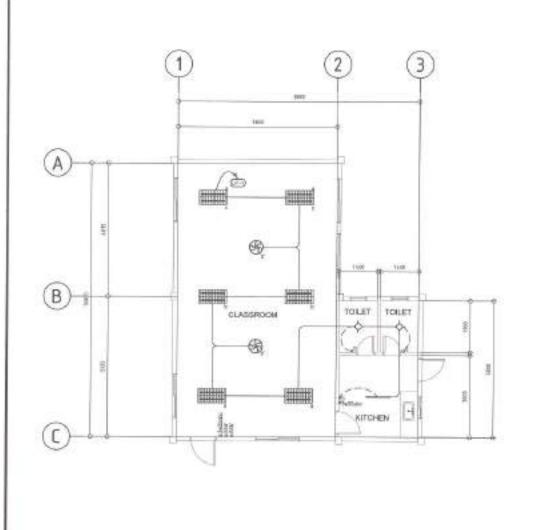
ENGR. LED B. DEL ROSARIO

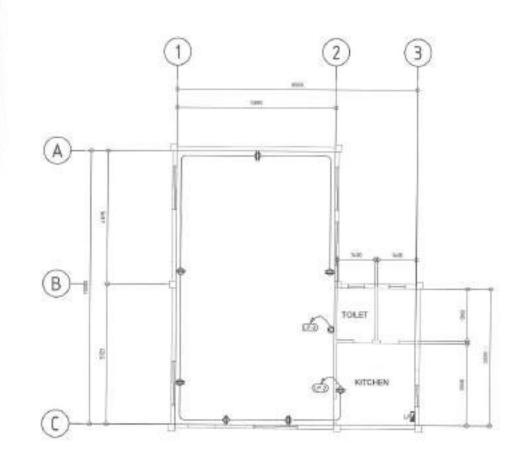
ENGR. MAGAN R. VERZOSA, JR.

BENEFAL HOTHER
LEARNING
LANG SCHEDULE
RESOY DARKHAM
ANDOLLANDERS
HON, MA, JOSEFIRA G, BIELMONTE

LISTALS
LISTALS

EL-01 07 08





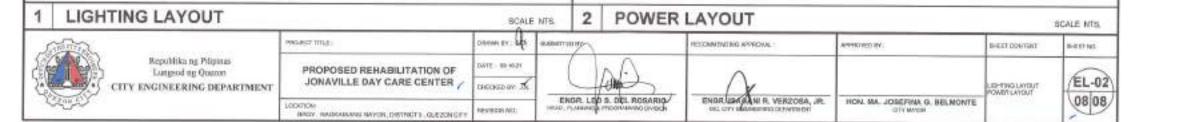
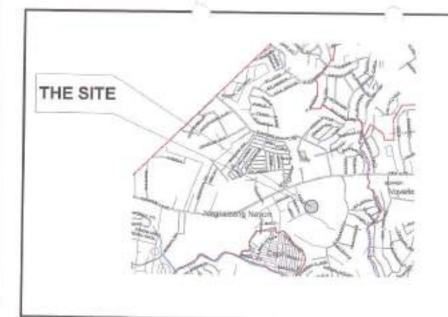


TABLE OF CONTENTS

ARCHITECTURAL

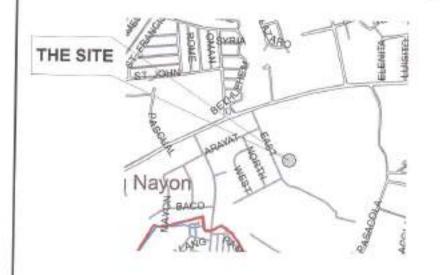
SITE DEVELOPMENT FLAN APPEL OPPOLATE AN REFLECTED COLUNG FLAN

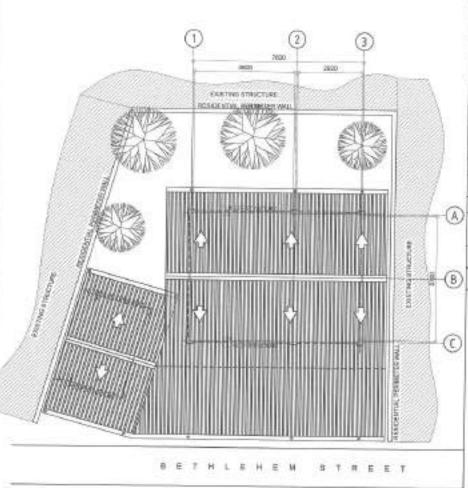
AR-08 ROOF PLAN



1 VICINITY MAP

BCALE NTS.





TOLLET DETAILS AR-OL FRONT ELEVATION RIGHT SIDE ELEVATION LEFT SIDE SLEVATION LETTERING DETAILS ARKS SCHEDULE OF DOORS SCHEDULE OF WINDOWS LITTERNO DETAILS PLUMBING / SANITARY PLOT GENERAL NOTES PLUMBING LAYOUT ELECTRICAL EUT GENERAL NOTES LEGEND AND SYMBOLS MIDCELLANEOUS DETAILS GL-09 RISER DWGPMV SCHEDULE OF LOADS EL-05 LIBHTWO LAYOUT POWER LAYOUT



APPROVED BY

2 LOCATION MAP

BCALE NTS.

SITE DEVELOPMENT PLAN

SCALE LISTM.

Republika ng Pilipinas Lungsod ng Queson CITY ENGINEERING DEPARTMENT PATRICIAL

PROPOSED REHABILITATION OF LAZARO DAY CARE CENTER /

COCATEIN SERVICEMENT SERVICE SERVICES S

DATE: HOEVERS!

SEMBON NO.





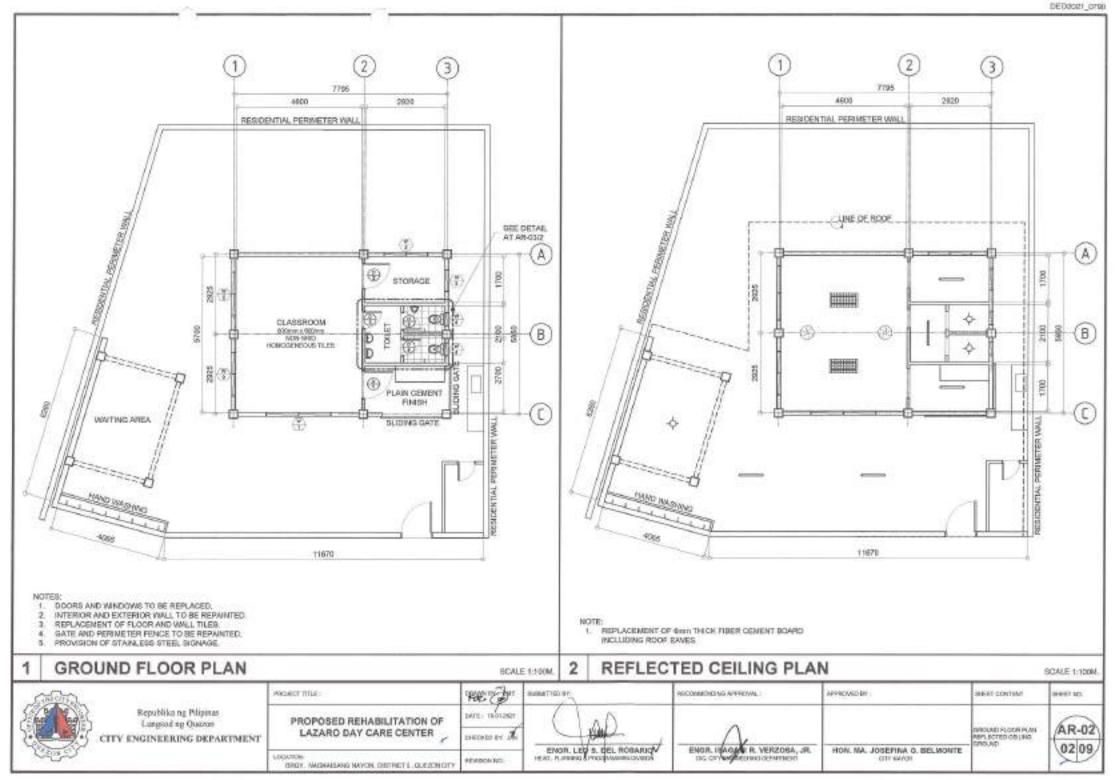
AVORTINA (INCOMEDOS)

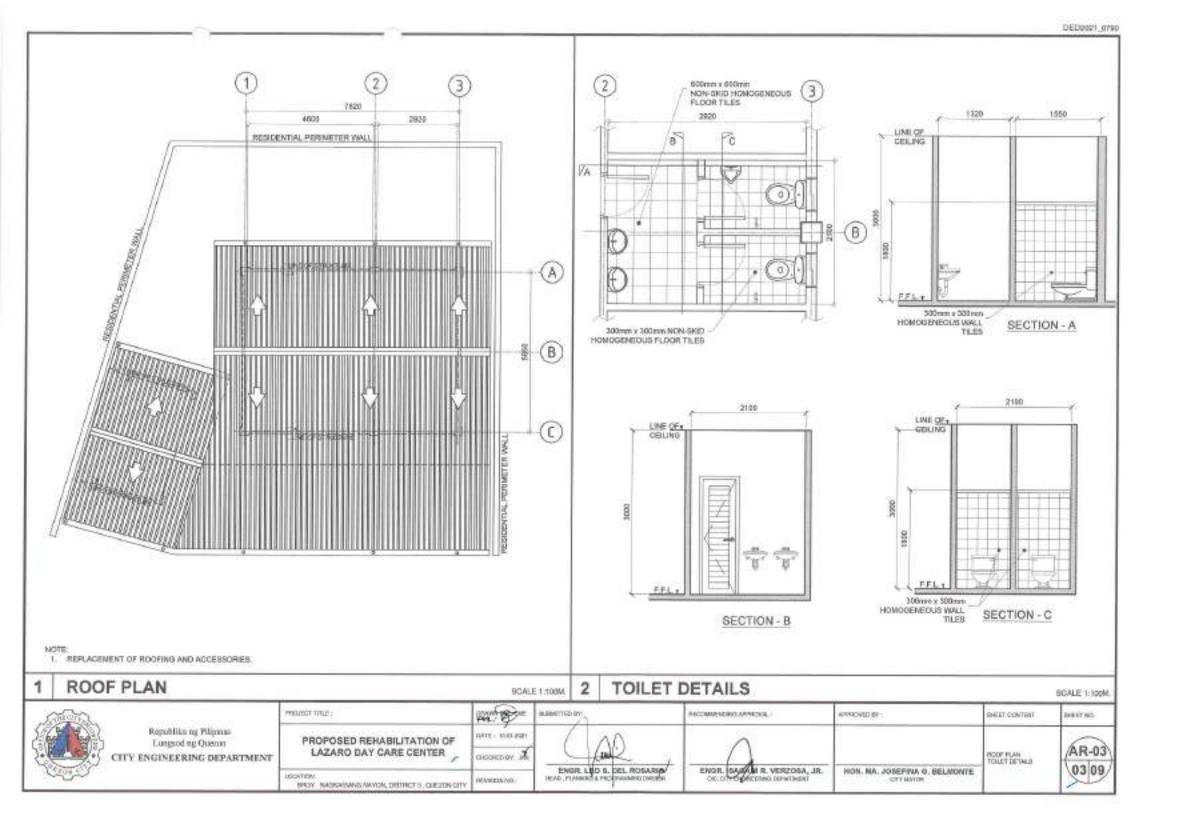
HON, MA, JOSEFINA G, BELWONTE

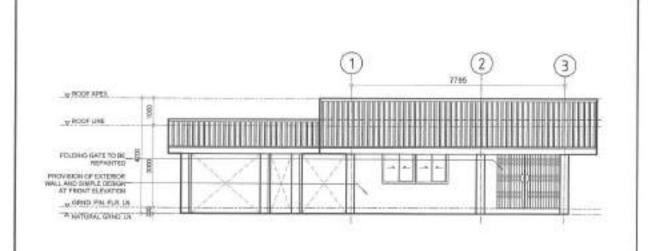
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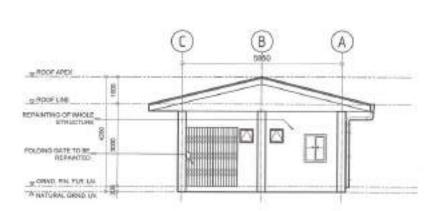
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THURSDOTERN







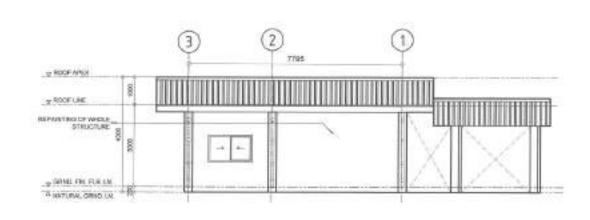


1 FRONT ELEVATION

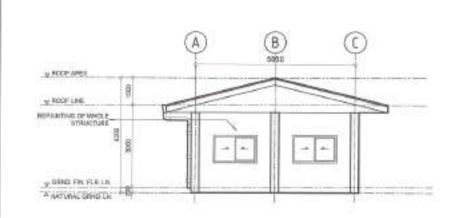
SCALE 1:100M.

RIGHT SIDE ELEVATION

SCALE 1:100M.



SERVICE STATE



APPROVED BY:

3 REAR ELEVATION

BCALE 1:100M

LEFT SIDE ELEVATION

BEALE 1:100M.

Republika ng Plipens Langsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF LAZARO DAY CARE CENTER

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DATE: HARDE





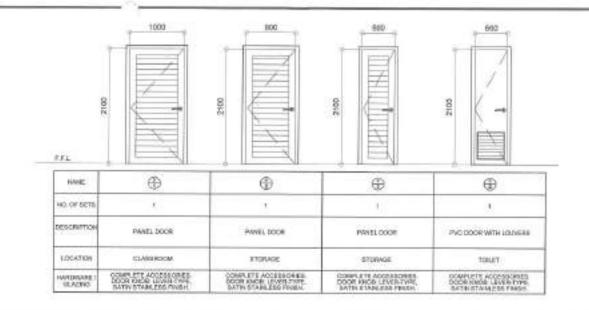
PETOMACHONG APPROVAL

HON, MA. JOSEFINA G. BELMONTE.

OTHERS OF THE STANDARD CONTRACTOR OF THE ST

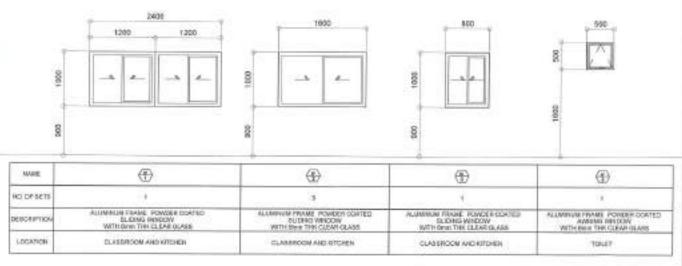
BHEET CONTERN

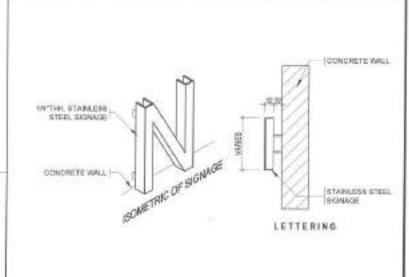




SCHEDULE OF DOORS

SCALE 1:50M.





SCHEDULE OF WINDOWS

LETTERING DETAILS

APPROVIDER:

SCALE: NTS



Republika ng Pilipinas Langeod ng Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF LAZARO DAY CARE CENTER

PROJECT TITLE:

STATE OF THE DATE: 10.00.00F онголови Жи REVERON NO. BROY, BAGHASIANI MAYON, DISTRICT S, GLEZON CITY



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	/ 1	2
224	on had	W. R. VERZOSA, JR.

RECOMMENDING APPEAUL.

ON.	MA.	3088	FINA	0.6	ELMO	MTE

SHEET CONTENT DHEET NO. SCHOOLS OF DOORS. SCHEDULE OF BIHDOW LETTERING DETAILS



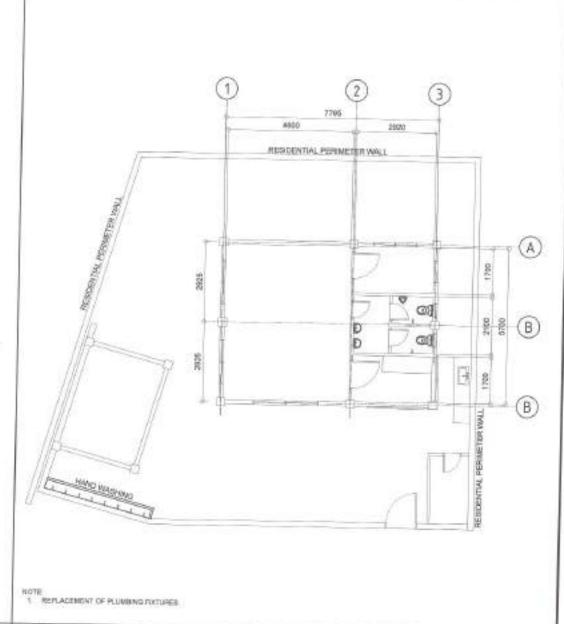
- All plumbing works and materials indicated herein shall be compliant to the provisions of the latest edition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.
- 2. The plumbing layout is only diagrammatic, pipes, cleanouts and check valves shall be concealed as much as possible. It is not intended to show the actual dimension of the pipes and fixtures in the drawing but all the pipes and fixtures shall be installed as and where indicated. Any relocation will require proper association in relation with other trades.
- 3. The plumbing contractor shall verify all existing utilities at the site and shall coordinate the work with other trades.
- 4. Pipes shall not be embedded in structural members unless otherwise specified or allowed.
- Minimum stope for horizontal sewer lines shall be 1% and for drain lines shall be 5%.
- 6. Proposed plumbing unities shall conform with the actual location, depth and invertible elevation of all existing pipes/utilities.
- 7. Connection of fixures to pipes and fittings shell be according to manufacturer's specifications.
- 8. All floor drains shall be vented individually.
 - 8. All clean out femules shall be flush-mounted to wall and shall be provided with polished cover caps, Do not install floor clean outs except at lines on grade and sevice areas not subject to traffic.
- 10. All underground G.I. pipes in direct contact with soil shall be provided with two (2) coets of protective far covering and wrapped with jute cloth thoroughly soaked in far or asphalt.
- 11. Provide vent stack and vent pipe thru root of cast iron service weight as required.
- All cast iron pipes shall be of approved quality and G.I. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.
- 13. Provide gate valves to all water supply lines to focures.
- 14. All hot water lines shall be provided with proper insulation where exposed.
- 16. All individual branches to fixtures or group of fixtures and/or equipments shall be provided with air chambers or capped vertical pipe extensions of dimensions as shown:
- H = 450 mm for 19 mm Ø and larger
- H = 300 mm for 12 mm Ø and smaller
- 16. All hose hibbs shall be 19 mm Ø (3/4" Ø) unless otherwise indicated.
- 17. Inlet pipe of septic tank is 50 mm higher than the aiphon pipe which is 30 mm higher than the outed pipe.
- 18. All plumbing works and manner of construction shall be under the direct supervision of an able and duty licensed Master. Plumber or Registered Sentary Engineer. Any discrepancies found in plan shall be notified to the same person.

STREET TO MORE

PROPOSED REHABILITATION OF

BROY, NASKAIGANG NAYON, DISTRICTS, GLESCINGSTS

LAZARO DAY CARE CENTER ...



GENERAL NOTES

SCALE HIS 2 PLUMBING LAYOUT

SCILE NTS

Republica ng Pilipene Lungsod ng Quexos CITY ENGINEERING DEPARTMENT SCAL

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REPORTED IN THE

ENDR LIED S. DEL ROSANO

SUBMITTED BY

ENGR. ISASAM R. VERZOSA, JR.

ANCHARISMENT BALLOCKE

HON, IHA, JOSEFINA G, BELNOVTE

WTTOVED BY

PL-01 06 09

MATTER NO.

RECT DON'TOW'

GENERAL NOTES:

- ALL SLECTRONL WORKS SHALL PER DONE IN ACCORDANCE WITH THE PROHISESSED OF THE LATEST ROTTION OF THE PHILAPPINE.
 ELECTRONL CODE. THE LASE AND ORDINANCES OF THE LOCAL CODE ENFORCEME AUTHORITIES AND THE REGULARISATION THE LOCAL FORMS AUTHORITIES AND TELEPHONE. LITELY COMPANY.
- THE CONTRICTOR SHALL BEGINE ALL PRIMITE AND PAY ALL PESS/PEGLIPE D FOR THE WORK AND SHALL RUPESH THE ORDER THROUGH THE ENGINEERS, THAT, CERTIFICATES OF ELECTRICAL REPRECION (NO APPROVIL FROM RICHER STAN MARKET ALTHORITES FOR CORPLETED OF WORK.
- ALL EMBLOOKS BYWICH CROUPTS SHALL BE PAG CONDUCTS AND FOR EMPORED HIS MALLATON 9-WILL BE SIZE SUPPORTED BY CONDUCT CLAMPS BRIDEY TO MULTIMITIES.
- 4 PULL BOXES (HALL SE PROMISE) HT THE CONTRACTOR WHENEVER NO DESCRIPT TO FROLETATE WHIS PULLINE SISSION THESE ARE HOTTINGCATED ON THE PLANS. SCHOOL OF ALL PLANS FOR PHILE OF THE CONTRACTOR CONTROL OF PULLINGCES SHALLSE APPROVAL IN THE PROMISE THE PROMISE FOR APPROVAL ON THE PROMISE THE PROMISE THE PROMISE FOR APPROVAL ON THE PROMISE THE
- E. ALL POWER CLITLETS. AND ENVIOLES THALL BE GROUNDING TYPE WITH PARKLEL SLOTS FOR 200 V.
- 8. MOVOE GROUND FALL TOWRRANT STERROUTTER CHOOLT STEARER FOR LIAKS MICRIGID SECTION THE PLAN.
- F. ALL METALLIC CONDUCTS, CHARLETS AND SQUARMENT SHALL BE PROPERLY GROUNDED AND SOLDED.
- 8. UNLISE OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL REMAYED DEVICES SHALL BE AS FOLLOWS:

RECRETACUE CUTLET - 300 MB ART , (150MM ABOVE W550MG COLUETUM, LAWFING 2007CH - 1300 MB APP RANGLEDARD - 1400 MB APP

- REFER TO RECIPIODAL PLUMBER ANY FIRE PROTECTION DEVANINGS FOR NATIONAL MIC LICENTONICS CONTROL IN THE PROTECTION AND ON SHOWN IN THE RESPECTIVE SECTIONS.
- 10. ALL INSTITUTIONS TO BE USED BOOK ASS OF THE BEST QUALITY. INVASCING MAKE SPECIFIC.
- 11. THE DRAWINGS AND OFFICIENT TORS ARE PREMISED TO ARREST OF DIFFER. LAYOUT AND STOCK OUTLAND DECISIONED IN THE PROJECT BUT DO NOT RECEDENTLY INDICATED/ACCIONABLE ACTUAL LOCATIONS. LEVEL AND DECISIODS OF THE SIGNAMENT THE CONTINUES OF THE PROJECT OF THE PRO
- ANY DISCREPANCY DETWEEN THE PLANS MED SPECIFICATIONS EVEL SE BROUGHT TO THE ATTIQUITION OF THE BROMBIN FOR QUARRICATION DECISION.
- 13. ALL COMERO AND CONVERTING CHIEF CROLLING SHALL BE 25 IN: MR THROLLIC OWNER WIRE UNLESS OTHERWISE HOUSE.
 MINEL MUSEUS OF WARE THALL BE 3.5 SO, AM. COMPER WIRE, ALL WIRES AND CONLINE SHALL BE CITICAL COORDINATELLOWS:

LARE 1 - HELICHI HENTRAL - HATE SPELING - GREEN

 SEXRE, MITE, GUTTERS, BYOLDOUTE BHALL BE FABRICATED FROM STEEL WITH THROUGHS AS POLICIANS. INJURIES MICHIGATED THE WIDEST GUTFACE STEEL.

UP TO RECLUDING TOE ROMM OA HET PARTED BITTH HET AL PRIMER SPICE? AND TOPCOM?

ONDRY HTZ 49 MM BUT HOT ONDR 46T ZE:

CHIEF 45T ZO MM BUT HOT ONDR 702 MM SA TE PRIMERS WITH MET AL PRIMER SPICE? AND TOPCOM?

ONDRY FOT WW

GA TO PRIMERS WITH MET IS, PRIMER SPICE? AND TOPCOM?

- ALL BLECTHICAL WORKE HERBITCHALL BE EXCOUTED OF CAPSABLEED VEHI-LINESS THE DIRECT SUPERVISION OF A
 FIG. THE LICENSED BLECTHICAL. BY SUBJECT AND ADJULY ACCORDING BLOCKHICAL CONTINUOUS ROOM, WORKE SHALL
 BE HEATLY PLACED SECURELY PARTITION AND PROPERTY PRIVATED.
- 16. THYC OF BOTH OC BYTRANCE SHALL ME SHOULE PHASE, TWO WINE PLUS GROUND, SO HETTZ, JULY ACHOUSHAL.
- 17. CONTURTS WHO CASE SHALL THERE HE MORE THAN THE ROLLWIZERT OF YOUR SUMMERT RENDED IN ANY USE RUSE ALL, CONDUCT RENDE SHALL SE FIELD WASCEY USING HYDRIVALIC RELIGIES. MILRIAN RENEING PAGING WAST SE IN ACCORDANCE. TO THE CITCH HECLIFERIOTIS.
- ES LIPCK COMPLETEN OF ELECTRICAL CONSTRUCTION WORK, POLILATION RESIDENCE THAT AND PLECTORALITY TEST DANL. SE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED BY DETAILS ON FORMS APPROVED BY THE GUESTIVICITY ENGINEERING INFRANCIAL PROPERTY FOR CHOLOGIC BY THE ELECTRICAL PARTIES SHALL NOT BE MORE THAN SIGHES, COMMUNICATION DROLLEGIS RESET MOST SHALL NOT EXCESS 2 CHAIR.

- 	150MMW LED BULB 18 WATTS		PANEL BOARD
	2X16W TROFFER LIGHT	°55	SELECTOR SWITCH (FAN)
-	T5 LED 1200MM, 20 WATTS	°s	ONE GANG SWITCH (LIGHTS)
Φ""*	DUPLEX CONVENIENCE OUTLET (HEIGHT MODUM)	⁰ 25ab	TWO GANG SWITCH (LIGHTS)
ؙ4	ACU OUTLET(HEIGHT 1400MM)	100	HOME RUN CIRCUIT BREAKER
		9	ORBIT FAN WITH SELECTOR SWITCH

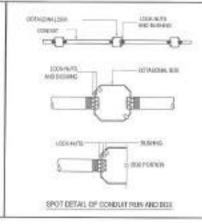
2 LEGEND & SYMBOLS

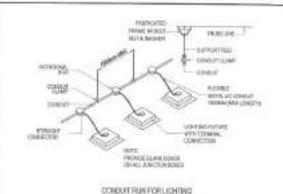
BCALE NTS





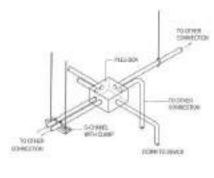




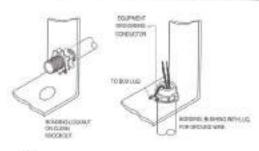


DISTRIBUTION IN DIVE ORGUST

FOR EXPOSED OR INSIDE DROP-CELLING INSTALLATIONS



PROPER CONDUIT LAVOUT # PULL 90X



HITE

SPERDAND BY

COMPOSTOR OF THEOLOGY PAGE TALL CONDUCTOR PROMISED TO THE ASSOCIATION OF THE ASSOCIATION

BUNDED RACEMMY TERMANATION FOR SHEET METAL

BHOCK CONTRACT

GENERAL NOTES

BCALE NTS

3 MISCELLANEOUS DETAILS

SCALE NTS

CHTESHE



Republika ng Hipinis Lampod ng Queson CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF LAZARO DAY CARE CENTER

DOUTON BEET NACIONAL NATION DISTRICTS OUT ON CITY

PROJECT TITLE:

DATE: IROT BOT ON

SEMBONNO

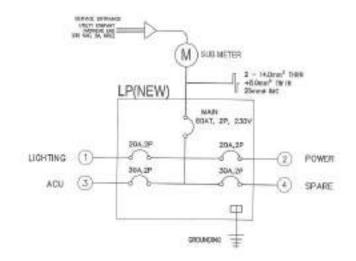


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		1				
		1	1			
ENG	R. 15	Law	6	AFR2	DBA J	Œ.

PERSONAL CONTRACTOR

SOMBULICITION
LESSON AND STREELS
HON, MA. JOSEPINA G. BELMONTE
WICZI, AND STREELS
WICZI, AND STREELS

EL-01 07 09



1 RISER DIAGRAM

BCALE NTS.

LP(NEW)

				Transcon-S	CIRCUIT BREAKER			WIRES AND CONDUIT		
OKT.NO.	LOAD DESCRIPTION	VOLT	POWER	(AMPERE)	AT	AF	р	UNGRND	GROUND	ммø
								THUN	TW	TYPE
1	2 - TROFFER, 3 - BULB, 5- TS, 2 - C FAN	230	1266	5.50	20	50	2	2 - 3.5mm ²	1 - 3.5mm ⁸	20 mm Ø PVC
2	7 - CONVENENCE OUTLET	230	3260	5,48	20	50	2	2 - 3.5mm²	1 - 3.5mm ⁸	20 mm Ø PVC
3	ACU	230	2300	10.00	30	50	2	2 - 5.5mm²	1 - 3.5mm²	20 mm Ø PVC
4	EXISTING.	230	5520	24.00	30	50	2	2 - 5.5mm ¹	1 - 3.5mm²	20 mm Ø PVC
T01	TAL CONNECTED LOAD		10346	44.98	177			1.1. 317 A.W.	1000000	an men prove

CIRCUIT PROTECTION COMPUTATION:

I_T = (10346 / 230 V + 25%(10)) * 125%

IT # 59.35 AMPERE

HOUSE

OVER CURRENT PROTECTION:

USE: 60 AT, 2P CB BOLT-ON

MAIN FEEDER:

USE: 2- 14mm2 THHN WIRE & 1 - 8.0mm2 TW GROUND WIRE

IN 25mm Ø IMC TYPE

RENERON NO.

1 SCHEDULE OF LOADS

SCALE WIS.



Republika ng Pilipinas Lungsod ng Queson CITY ENGINEERING DEPARTMENT

PRESENT TITLE:	and the same
PROPOSED REHABILITATION OF	DATE: WALLEST
LAZARO DAY CARE CENTER	DEDEDES IN

MROY: NAMEWORKING HAPPIN, DISTRICT S. QUICKON DITY

ENGR. LED S. DEL ROSARIQ (4.40. PLINESSES PHYSIAMING DIVISION

t	337.5
l	\wedge
ŀ	ENDR. ISAGANI N. VENZOSA, JR.

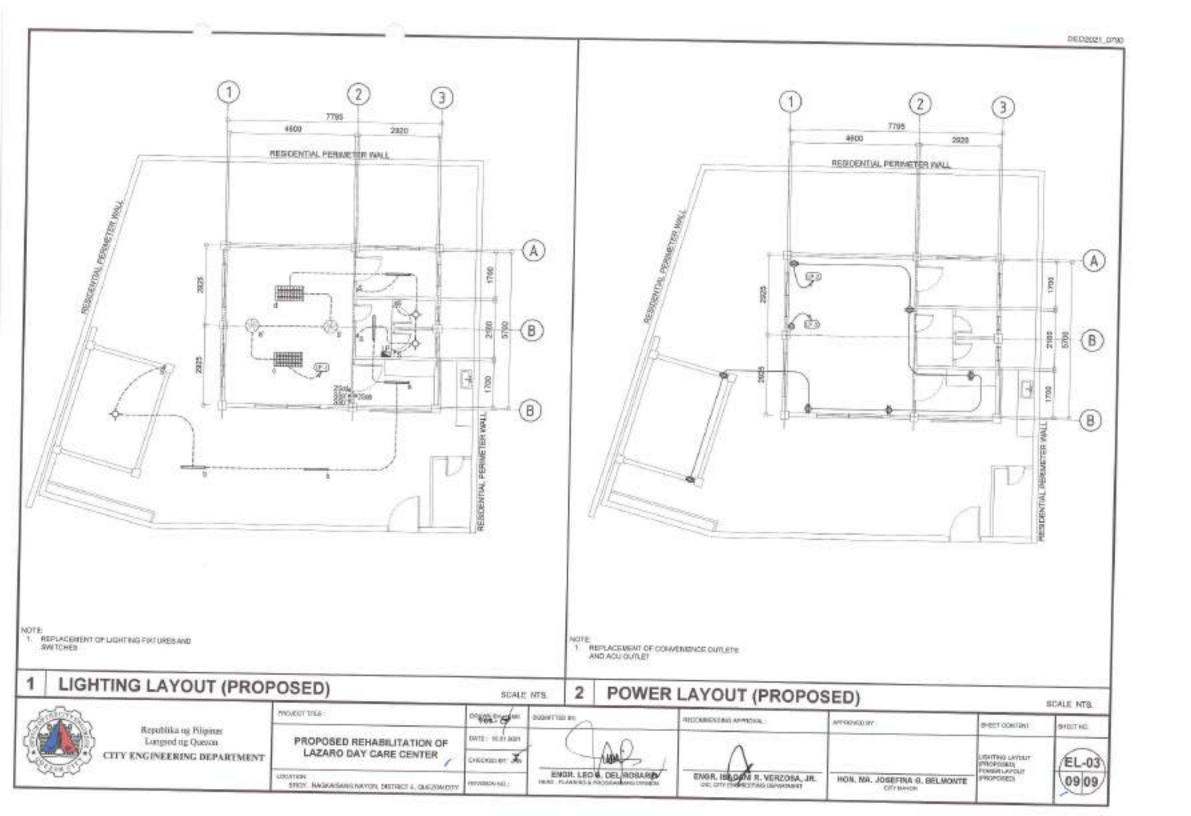
R. HON MA. JOSEFINA G. BELMONTE

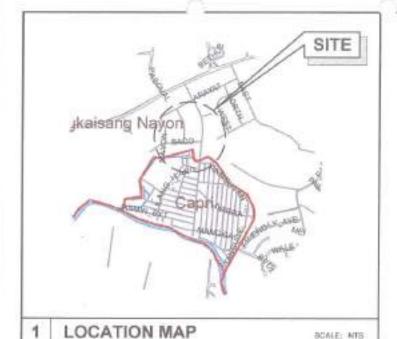
RECRUMENTS SOMETHINGS

WEST-GOVESNE



WEST NO.







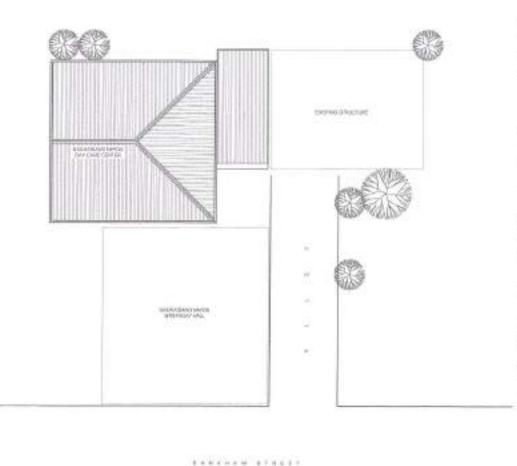


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APHOL SITE DEVELOPMENT PLAN LOCATION MAP

VICRITY WAF
AR-OD PLOOF PLAN

REPLECTED CRILING PLAN ARKEL ROOF PLAN

PROVESTEVATION REAR ELEVATION

LEFT GOE BLEVATION
THIS IT SIDE SLEVATION
ARION SCHEDULE OF DOORS & WINDOWS

DOBATERIOR DETAILS LETTERNO DETAILS

STRUCTURAL

87-81 GENERAL NOTES ROOF PRAMING PLAN BAPTER DETAIL

PLUMBING

PL-01 GENERAL NOTES LISORADS

FL-03 WATEN LINE LAYOUT SANITARY LINE LAYOUT

ELECTRICAL

B. 41 CENERAL NOTES MISCELLANDOUS DOTALS LEGENDII AND SYMBOLS

POWER LAYOUT

MECHANICAL

EL-81 GENERAL NOTES LEGENCE AND SYMBOLS MEDICAMICAL LANGUE

WEST LONG.

-2

APPROVIDE IT

2 VICINITY MAP

SCALE: NTS

SITE DEVELOPMENT PLAN

SCALE: 11100W.

(II)

Republika ng Piliptom Lumpiod ng Quason CITY ENGINEERING DEPARTMENT PROJECT TIME

PROPOSED REHABILITATION OF NAGRASSANG NAYON I DAY CARE CENTER

DOWNERS OF THE PROPERTY OF T



REVISION NO.

ENGR. LEGS. DEL ROSARIO



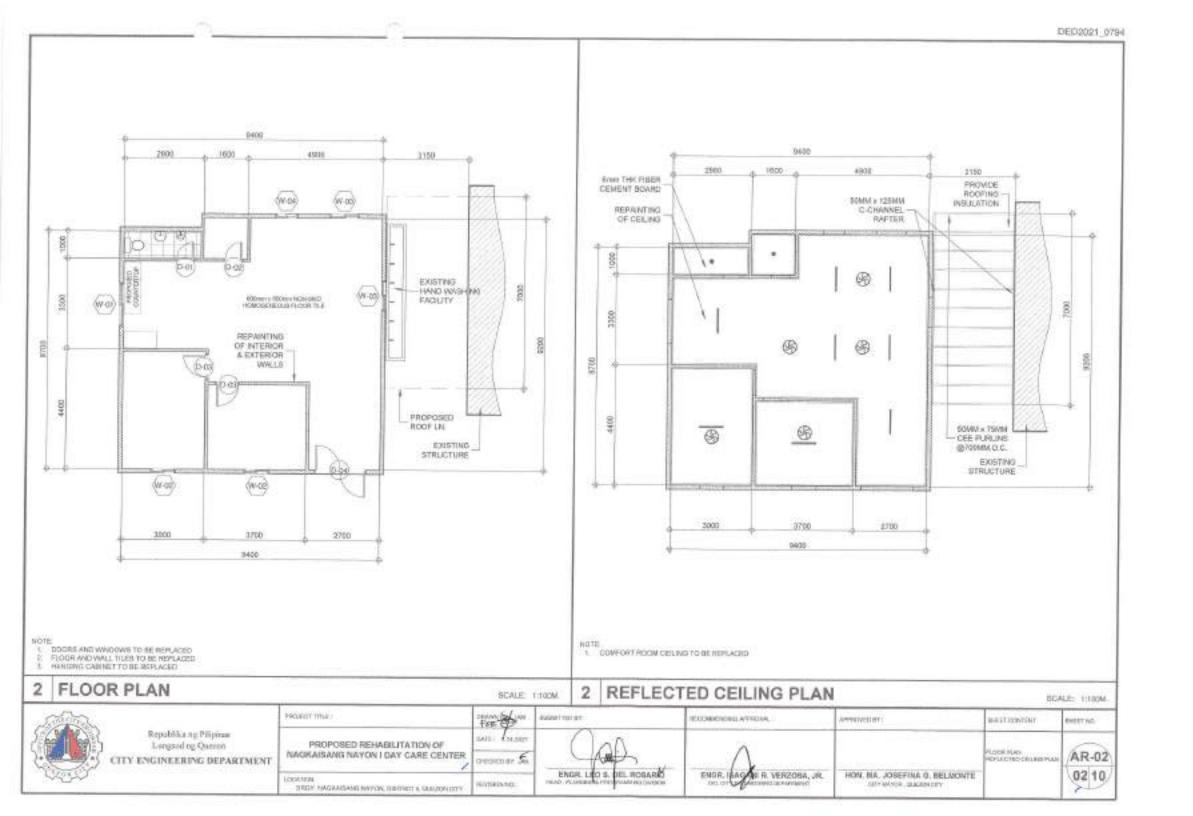
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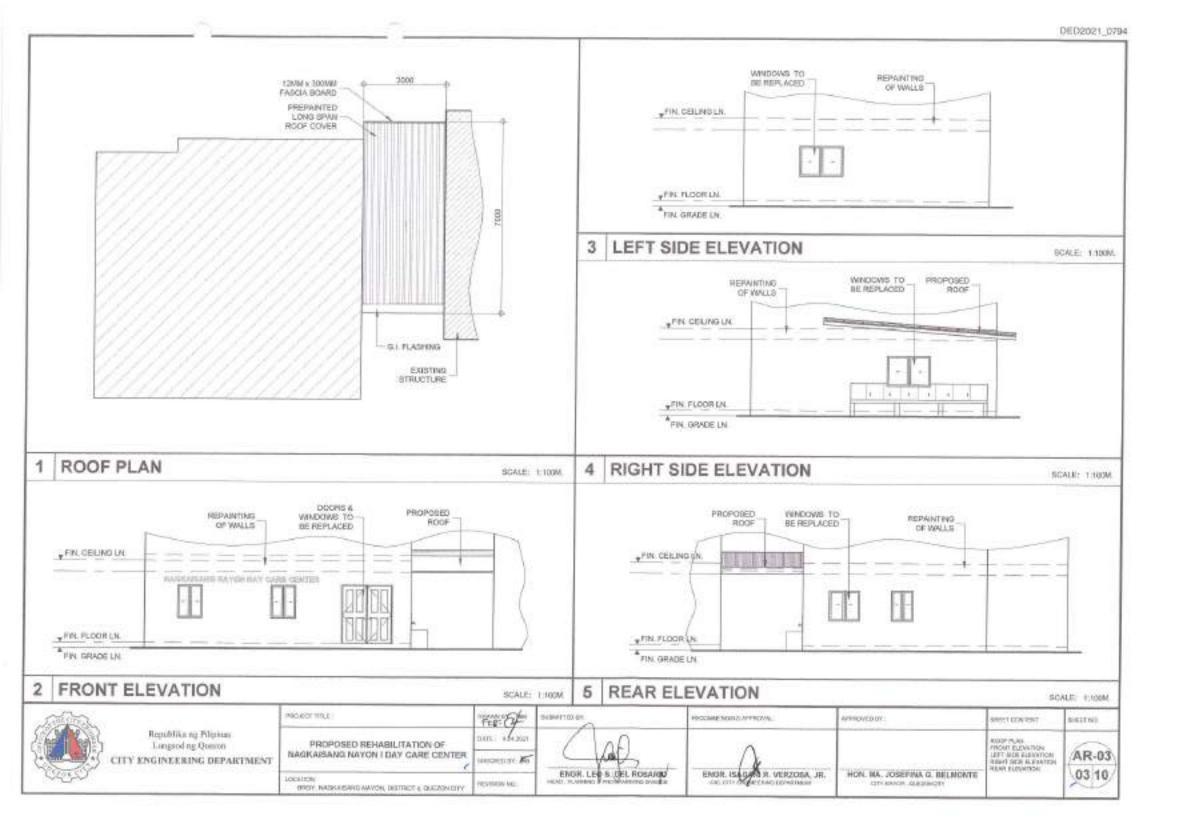
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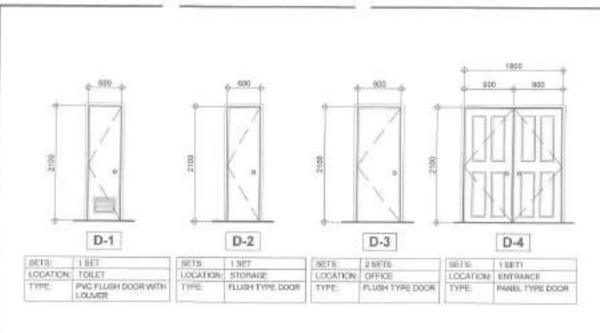
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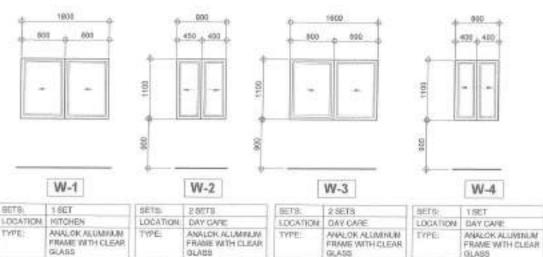
METTIN.

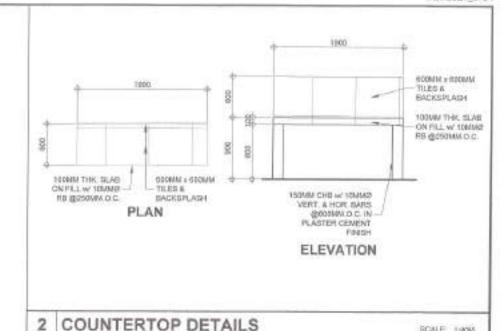


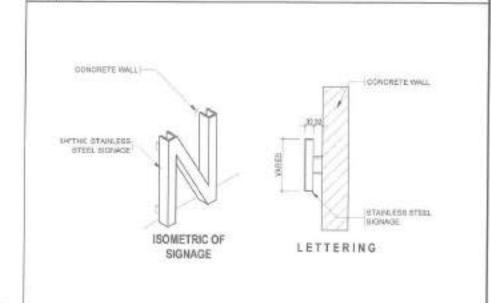


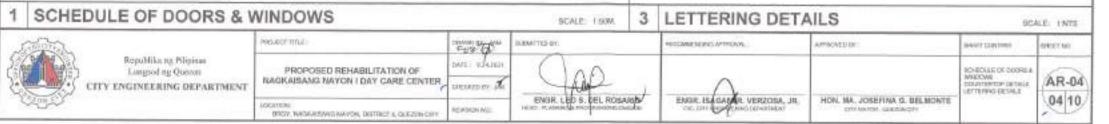
SCALE: 1/40W.











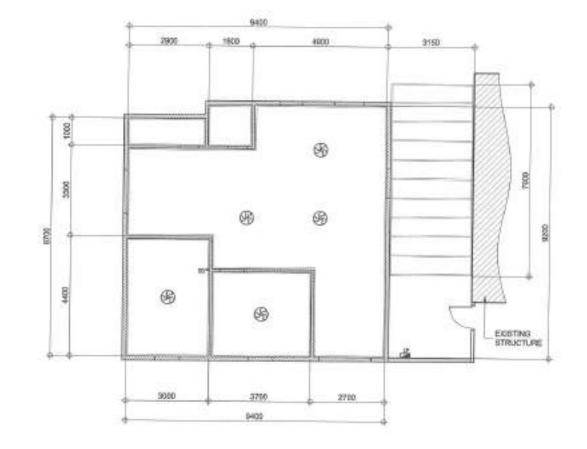
- ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.
- THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
- THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES, ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RM.
- ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RH.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS, SAMPLES, INCLUDING VIBRATION ISOLATORS BEFORE EXECUTION OF WORK.
- ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS TO PREVENT VIBRATIONS AND NOISE TRANSMISSION.
- EXHAUST FAN SHALL BE PROVIDED WITH SUITABLE FLEXBLE CONNECTIONS TO DISCHARGE DUCT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF HE WHOLE VENTILATION AND AIRCONDITIONING SYSTEM AND INSTALLATION.
- ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
- 10. PROVIDE CONTROL WIRING FOR AIRCONDITIONING EQUIPMENT.
- 11. PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.
- ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD ICB.
- ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD XOB
- 14 PROVIDE GUIDES, HANGERS, AND SUPPLEMENTAL STEEL SUPPORT FOR ALL PIPING, DUCTING AND EQUIPMENTS.
- 15. PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THRU BUILDING STRUCTURE.
- ALL PIPE DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

1 GENERAL NOTES

SCALE: NTS

°SS SELECTOR SWITCH (FAN)

CEILING FAN



YOTE:
1. CELLING FAVIS WHO SHIFTCHES TO BE REPLACED.

2 LEGENDS AND SYMBOLS

SCALE: NES

PROJECT TRUE:

MECHANICAL LAYOUT

SCALE: 1:100M.

SHEET CONTENT

Republika ng Pilipinas Lungsod ng Queson CITY ENGINEERING DEPARTMENT MTS:

PROPOSED REHABILITATION OF NAGKAISANG NAYON I DAY CARE CENTER

STREET, NAGRASSANG NAYON, DISTRICT N. GLEZON CITY.

DATE: 43/2001

EROR, LINE S. DEL ROSASPO

ENGR. ISAGAN R. VERZOGA, JR.

RECOMMENDATE INTERNAL

OFFICE HORE
LIGHTON AND INVESTIGATION
MICHIMICAL LAYOUT

HON, MA. JOSEFINA G. BELMONTE

CITY MAYON, DOCKORDED

HISCORDER.



- 4 All plumbing works and materials indicated herein shall be compilant to the provisions of the latest addition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.
- 2 The plumbing layout is only diagrammatic; pipos, cleanouts and check valves shall be concealed as much as possible. It is not intended to show the actual dimension of the pipes and futures in the drawing but all the pipes and focuses shall be installed as and where indicated. Any nationalon will require proper execution in relation with other trades.
- 3 The plumbing contractor shall verify all existing utilities at the site and shall containate the work with other trades.
- 4 Pipes shall not be embedded in shuctural members unless otherwise specified or allowed.
- 5 Minimum slope for horizontal sewer lines shall be 1% and for drain lines shall be 5%.
- & Proposed plumbing utilities shall conform with the actual location, depth and invert elevation of all existing pipes/utilities.
- 7 Connection of fixtures to pipes and fittings shall be according to manufacturer's specifications.
- 8 All floor drains shall be vented individually.
- 9 At clean out femules shall be flush-mounted to wall and shall be provided with polished cover caps. Do not install floor clean outs except at times on grade and service areas not subject to traffic.
- 10 All underground G.1, pipes in direct contact with soil shall be provided with two (2) coats of protective tar covering and wrapped with jute cloth thoroughly solvide in far or exphall.
- 11 Provide vent stack and vent pipe thru roof of cast iron service weight as required.
- 12 All cast iron pipes shall be of approved quality and G.I. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.
- 13 Provide gate valves to all water supply lines to firtures.
- 14 All hot water lines shall be provided with proper insulation where exposed.
- 15 All individual branches to fintures or group of fintures and/or equipments shall be provided with air chambers or capped various pipe extensions of dimensions as shown.
- H = 450 mm for 19 mm Ø and larger
- H = 300 mm for 12 mm Ø and smaller
- 16 All hose bibbs shall be 19 mm Ø (3/4" Ø) unless otherwise indicated.
- 17 Inlet pipe of septic tank is 50 mm higher than the sighon pipe which is 30 mm higher than the outot pipe.
- 18 All plumbing works and manner of construction shall be under the direct supervision of an able and duty licensed. Master Plumber or Registered Sprittery Engineer. Any discrepancies found in plan shall be notified to the same person.

I. FIXTURES AND OTHER LEGEND

RD RD	FLOOR DRAIN ROOF DRAIN
SHO	SHOWER
WG LAV	WATER CLOSET LAVATORY
URI	URINAL
KS	KITCHEN SINK
BD	BUILDING DRAIN
00	DECK DRAIN.
cco	CEILING CLEANOUT
FOO	FLOOR/GROUND CLEANOUT
DS	DOWNSPOUT
mm	millmeter
07	mm DIAMETER
SHD	SHOWER DRAIN
CB	CATCHBASIN
MH	MANHOLE
	DIRECTION OF FLOW
0	GREASE TRAP

	UNION PATENT
	CHECK VALVE
16	BUILDING SEWER
DDI.	BUILDING DRAIN
\$1	WASTELLNE
- ABUGB	AREA DRAIN / CATCH BASIN
60.	FLOOR DRAW
9	DAMETER
	WASTELNE
	WATERLINE
	DATE VALVE
66	DECK DRAW
-00	CLEANOUT
	FIFE DOWN
	PREUP
8.6	MILIMETER
58	GNTEYALVE
71	AREA DRAW/CATID-LBASIN
WE	WATER CLOSET
150	LWATORY
MH	MANAGLE
GM.	HOSE BIBB
	ETGRM DRAWLINE
	VERTURE
Will	VENTABOVE CELLING
100 / 100 (8)	CONCRETE PIPE FREINF CONC. PIPE
VIII	VENT THRURDOF
100	DIRECTION OF PLOWING CIPE

1 GENERAL NOTES

GOALE NTS

LEGEND AND SYMBOLS

ENCORPRESENTATION APPROVE.

SCALE N76.

104 (1994)

Regulfika ng Pilipinis Langsod ng Quescu CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF NAGRAISANG NAYON I DAY CARE CENTER CHICOCON TA

BRIDE IMPOURAGE MAYOR, DEFRET & GLEZOWITY

ENGR. LAD S. DEL ROSARIO

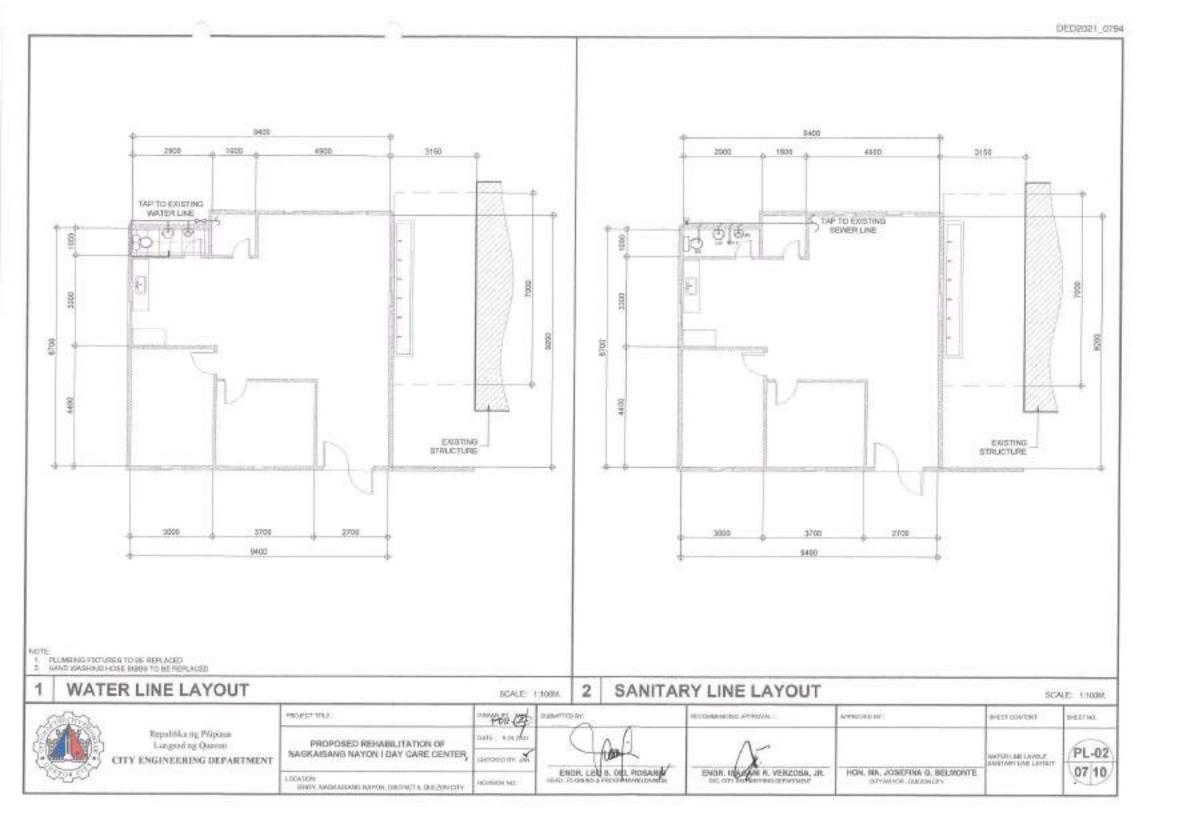
EMCIR ISANAN R. VERZOSA, JR.

HON, MA. JOSEPINA G. BELMONTE GOV HAVON GLEICHOTH

APPROVED BY

PL-01

WHEN CONTRA



- 1. ALL PLECTRICAL WORKS SHALL BY DOME ALADOSIDARDS WITH THE PROVISIONS OF THE LETTER EDITION OF THE PART EDITION. CODE. THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCES AUTHORIZES AND THE ROSUNG MOTIFS OF THE LOCAL FORDS AND TELEPHONE. UTUTY GOSPANI
- 8. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL PIERS INICIATED FOR THE WORK AND CHALL FURNISH THE OWNER THROUGH THE TRIGINEERS. FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVING FROM PROPER INOVERNMENT INCHORITIES FOR COMPLETION OF
- All EMPEDDED SPANCH DRIGHTS SHAULBE TWO CONDUITS AND FOR EXPOSIGN HISTALLICIEN HALL BE FIXE SUPPORTED BY CONDUIT CLAMPA. FURNITY YOU MAJOR TYPES
- PALL BOXES BHALL BE PROVIDED BY THE CONTRACTOR WHEREVER ACCESSANT TO PAGLITATE PALLING EVERY TISSIC ARE NOT. REDIGATED ON THE PLANS. BUSING OF ALL PULLBOXOUS SHALL BE COMPUTED MADE OF THE CODE MEDIUMENOUS SUBMET DHOP DRAWNINGS TO THE DISSINGER FOR APPROXIAL PRICE TO FASHIGATION, LOGATION OF PULLIFICADES INVILLIES APPROXID BY THE APPOINTMENT AND MICH. SE REPLECITED ON THE WASHINGT FRANC
- M.L. POWER OUTLETS, AND SWITCHES SHALL SE GROUNDING TYPE WITH PARALLEL SLOTS FOR 200 V.
- 8. PROVER URDURE FRAULT CLEREST INTERNUTER ORGUT BREATER FOR LOADS WASHED TOFOT ON THE PLAN.
- 3. ALL METALLIC COXIDITES, CARACTE AND FOURIERS ENAL, BE IMPORTE, Y DECURED AND BOXDEN
- 5. LINLESS CTREMWISE HITTED WIGHTHS HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 NW APF : HOMM ABOVE WORKING-COLUNTER THE REPORT CRETILET . TOTAL AFT. CREVIOUS PT .. BOSHMAPP DON'THIS DIRTCH - 1900 MILLARY PARELEDARD - NIDERMORP

- 6 REPERTO MECHANICAL, PLUMBRIDI ANY TIRE PROTECTION DISAMINISIS FOR RATINGS AND LOCATIONS OF EQUINIENT AS WELL AS THOSE CONTROL. DECEMBER AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- 15. ALL BATERIAGE TO BE GRED BHALL BY OF THE RESTOURLITY INSURO MEN AN EPICOPHIS
- 11. THE DECRETE AND SPECIFICAL ONE ARE INTRODED TO PRESENT DESERVE LAYOUT AND REPORT DUTHAR DESCRIPTION OF THE PROJECT BUT DO HOT RECESSARS, I RESCATEGESCRIBED ACTUAL LOCATIONS, LEVEL MYDIDISTANCES OF THE COURSE HT. THE CONTRACTOR IS HEREBY ROSURED TO MAKE BUSH ABJUSTMENT AT THE ASSISTE AS LODATION, DESTANCES AND LEVELS ARE CONSTRUCTOR OF ACTUAL FIELD COMPITIONS.
- TO ANY DISCREPANCY SETWEEN THE PLANS AND SPECIFICATIONS SHALL BE SPECIFICATION TO THE WITHOUT OF THE GROWER HIGH IS AND REPORTED.
- 12. ALL UNITHIS AND CONVENENCE DUTLET CIRCLETS SHALL SE 35 SQ, MY, THANK COPPER WIRE UNLESS OTHERWISE HETED, MERISAN SEE OF WHE SHALL BE SO SO, MM DOMER WHE, ALL WHEN AND CARLES BHALL BE COOKED AS MOLICIAN.

LINE 1- RED LINE 7 - VELLOW REUTERL - WHITE GROUND-GREEN

15 BOSSE, WAYE, SUTTERS, ESCLOSUSE SHALL SE SASSICATED FROM STEEL WITH THICKNESS AS FOLLOWS:

MAZERIAN REDTH OF THE WESTER BURNACE STEEL

THE TO HELD URBOWN SET AD MAN GX 18 PARTED WITH WITH, WARREST BROOK AND TUREDAY

OVER 150 40 MERCHAND WOT OVER 457 90

TIER THE PARTITION WITH METAL PRINCIP EPOXY AND TORCOM?

OVER 487, SO HER BUT HOT OVER TEX MM

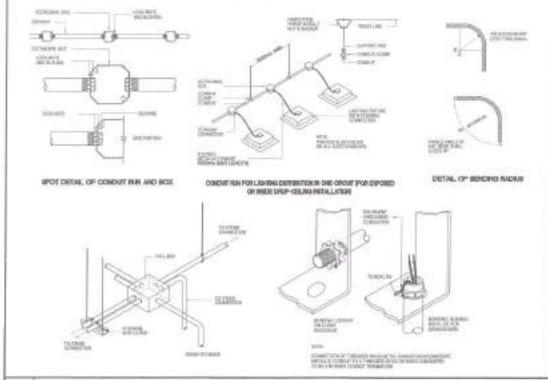
GA 12 PAINTED WITH METAL PRIMER EPONY AND TORCOUT GA 15 PAINTED WITH METAL PRIMER EPOXY AND TISRCOAT

H. AU, ELECTRICAL WORKS HORER SHALL BE EXECUTED BY EXPERIENCED MEH UNDER THE ORECT SUPERVISION OF A FULL-TIME LICENSED. ELECTRICAL ENGINEER AND A DULY ACCREDITED SUSCITEDIA, DONTRACTOR BY PICAS, WORKS SHALL BE REATLY PLACES, SCOURS, V FASTERIED WILD PROFERLY

PRINHED

- 18. TYPE OF SOTYODE BY TRAYED BHALL BY DINGLE PHASE. TWO WIFE PLUS DROWN. SO HENTZ 2007 AC HOMBAL
- 17. COMPARTS IN NO CASE SHALL THERE BY MORE THAN THE EQUIVALENT OF YOUR DUARTER SENOS IN ANY ONE YOUR ALL CONDUCTS HIDS SHALL BE FELO MADE BY USING HYDRULE SENDERS, MIRRIAN BENDAIG RADIUS MIST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- 18. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION PERSONNESS TEST AND FUNCTIONALITY TEST SHALL BE REPORTED BY THE CONTRACTOR INCLUSIVE OF THE RETALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVIDGE. THE QUICED CITY ENGINEERING. DEPARTMENT REPRESENTATIVE, THE GROUND RESISTANCE FOR ELECTRICAL EXISTEMS BHALL NOT BE HORE THAN 5 CHARLING AT CH GROUNDING RESISTANCE BANLINGS EXCEPTS CHRIS

PROJECT TO A



MISCELLANEOUS DETAILS

SCALE NES

_	TS LED 1200MM, 28 WATTS OUPLEX CONVENIENCE DUTLET		
Φ			
Фмо	ONE GANG CELLING MOUNTED DUTLE		
0	ACU OUTLET		
	PANEL BOARD		
°8	ONE GANG SWITCH (LIGHTS)		
0 28	TWD GANG SWITCH (LIGHTS)		

APPROVED BY

GENERAL NOTES

BOALE: NTS

100 6

LEGEND AND SYMBOLS

INVORTED DISORBANCES

BOALE NTB. DESTROY

Republika ng Pitipinas Lungsoil ng Quitzen CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF NAGKAISANG NAYON I DAY CARE CENTER

BASY, RASKATIWIS AWYOR, DISTRICT & QUEZVINICITY

OWNER HER LINES DHICKSTON AND



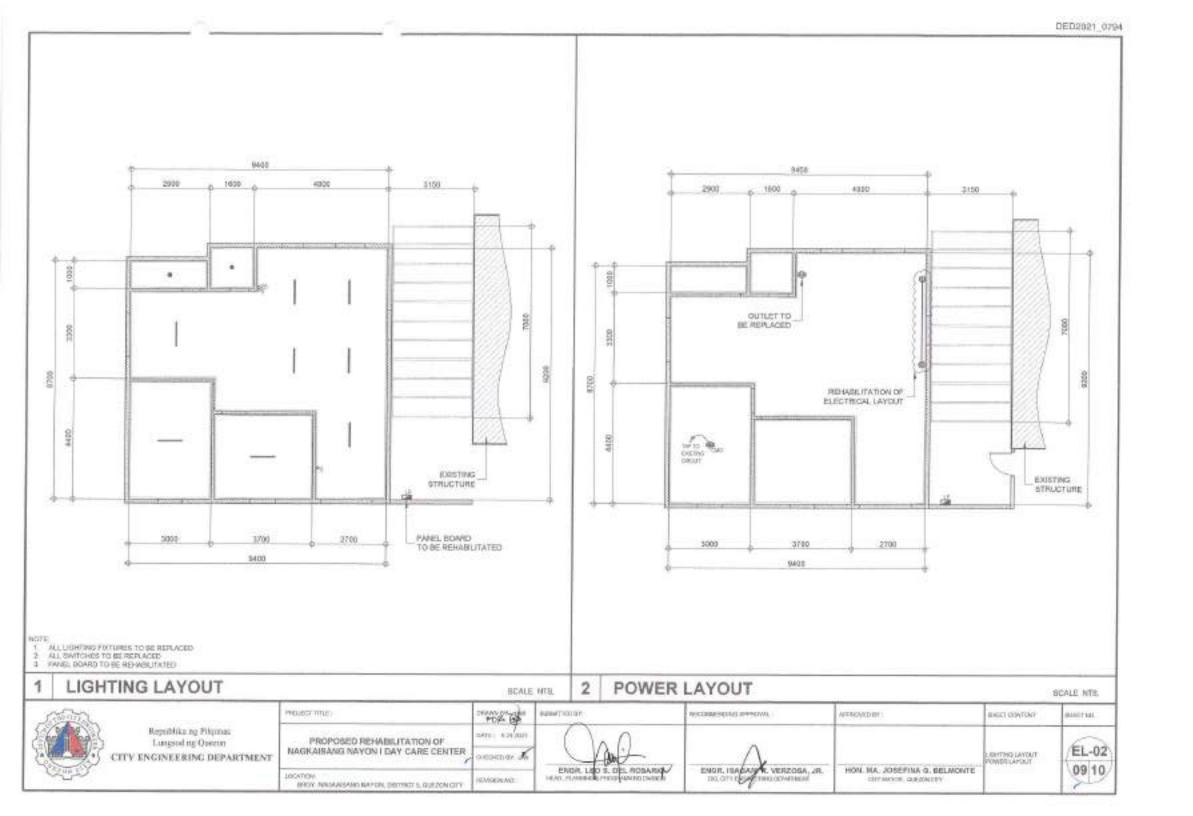


HON, MA, JOSEFINA G, BELMONTE DITT MAYOR CONTROLLEY

ENDIAL HORSE RESELVANCE REPORTALI STREET AND TRANSPORT

DATE OF THE





- CONFERCIONATES NO TYPOS OF THE AMENDO AL SEMPLE WEST CHERMOS. SOM CHARGE WEEK THEN THEN THE WASHINGTON THREE BYOM CHARGES
- SICPORAPSORIES DECYCLARO FLADISCALORADO FALIDADA FOR
- CONTROL BY ALL VENEZ ALL OWES BORD STOPE ALL WORLD TO SEEK CHIED WITH RETERMINE, AND SUCCESSA, CONTRACTOR FOR CONDUCTS PART MUDICE FOR MICH. CMSCCOOL ON CONCRETE
- 4. FERRAL TRETHE DOMERIC YOR'S RESPONSIBLE THE RECIPCION OF SINCE SINCE SINCE ORACIONE OF THE STREETING HIS ALL LEWIS THAT MAYER MYDRED SLIVAGE CHETELETING
- HYDRIGHT GREET ON AND RESIDENCE FROM THE RETRIPORTATION OF DESCRIPTION OF THE RESIDENCE FROM THE RESIDENCE F DECEMBER TO, THE STEETING OF THE DIMEDICHISHED LINES OF CHECKING WITHOUT

CONCRETE A REINFORCEMENT

- 1. ALL WATERIA & AND WORKMANCHED CALL MORE DROVED IN ELECTRONICS DISCOURT 2002 OF AMERICAN CONCRETE TREST TO BE JUST AND
- S ALL CONCRETE SHILL DEVELOP IN MINURAL COMPRESSIVE STRUMENT AT THE EMPLOY PROMETY. BOX DECADE WITH CORRESPONDED WARMAN BY EXCRECATE AND SUMPLIFICATIONS.

LOGSTON	отприоти	MAIL SIDE OF MISORITORS	Man, milani
TEMPOR DESCRIPTION TOUTING WHALL POSTING	300076 (27-00) Most	(4.294)	En (Hillen)
5 50/45 COUM4 SCHOMSS SUR	AUCCS (DOMESTIC	34 to 2 Streets	46 (38m)
e i Chie (Chiesach)	Description of School	A M. (Chine)	11

- IL BUT RESIDENCE FEBRUS SHALL FOR YORK TO PASSE SHADE ON
- FOR YOM IR WELL SMALL DE BASE WILD SHALL STOKE STOKE IN YOUR WILD LINGSON, MANY A MICHAEL PROJECTION OF ACATE MINOR OF STANDARD PRACTICIONALISE ADMONIST CONFRES ERRETURES THAT, IS NAMED TO UNIQUE STRANGE SHOWS
- 1. WHITH MISSION CONCRETE LOVER FOR ROWCHCHLISTED, ALTISLISIS

CONCRETE DEPOSITED DESCRIPT ROBBER FREGUNG	None
EXPENSED NUMBER	All year
SURE ON DIVIDE	40 mm
WHILE ARTHURS TO SEE	15 040
BANK & COLUMN	off inc

- IL OPLICES BY ALL BE SECURELY IN PACE FORCE HAN AND SHALL LAP OF DIFFERSIVE WICKSTONANCE WITH MALE ! [MALE OF LAP SPICES AND ONCE CHANGE | BOOK [] LAD SEX TRAVERSES SALESSA [SE TRIMPICE SPECIALISE ETHISPIED MICHOGET PORBIGE
- If ALMOKRECTS DONES, NO DODE WHEN EVAL NO POPERTRONDED AND SICKED BY PLACE PROX TO REACHOUR CONCRETE.
- IL CONTRACTOR DAIL NORVANO PROFECIAL MEGALIANZONI CURNIL BILLI, EFFOLIZ EGUPPRINTE. AND INTERNAL WARRANCE WAS REQUIRED AN THE RECEITED LAW, ELECTRON, AND RECEIVANCE SYMMOS
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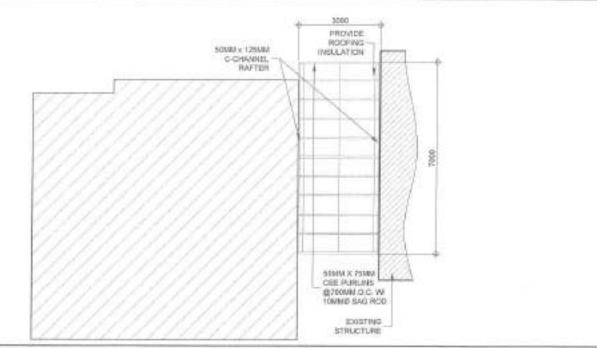
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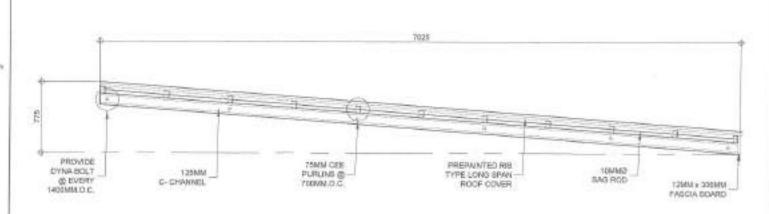
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- II ALL CHRISTALL BE LIAD GUT WITH THE COLLIN HONGBIT FRICTED NOR BOX CONTINUES. ALL CILLIES FROM Y THOSE SITH RESPONDENCE WAS DRIVED BY HURSING MORNIE.
- A 75 M THY CHARM CAST TROUGHD DECON SHILL BE PROVIDED BY LOSS OF WEIGHT SHIPS AND WHITE HE FALL WITH HE FILLING.
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ROOF FRAMING PLAN

SCALE: 1000M.



GENERAL NOTES

3 RAFTER DETAIL

FIRE

DATE: 4024 July

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REVISED NEW

SCALE: 1:30M. DATES

PROTINGO TESHS



Republika ng Pilipinas Lungsod isg Quecon CITY ENGINEERING DEPARTMENT PRODUCTORIES

PROPOSED REHABILITATION OF

BEGOV, RACINGORANO MAYON, DISTRICT IS GLESSING CITY.

NAGRAISANG NAYON I DAY CARE CENTER

BURGHITTOD BY

ENDR LEDS DEL ROSAND

ENGR. HAMAYOR, VERZOBA, JR.

RECOMMENDED BYTICANS.

GESENEL NOTES HOLD PRINCIPL PLAN PAPTER CETALS HON, MA, JOSEFINA G, BELMONTE OTYMOR GUIDNET

TO RESIDENCE PRO

ST-01 05 10

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COCATION PLAN

PIEAR ELEVATION FIGHT BDE ELEVATION LEFT SIDE RUSVATION

LETTERWO DETAILS SCHOOLE OF DOORS STEEL DATE DETAILS

LEGEND AND SYMBOLS GREASS TRAP DETAILS

SAWITARY LINE LAYOUF ELECTRICAL.

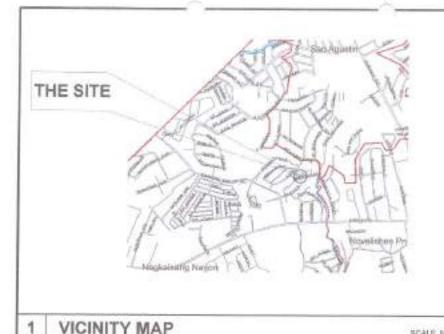
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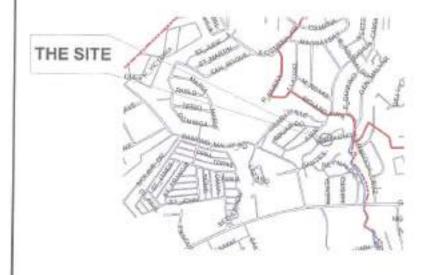
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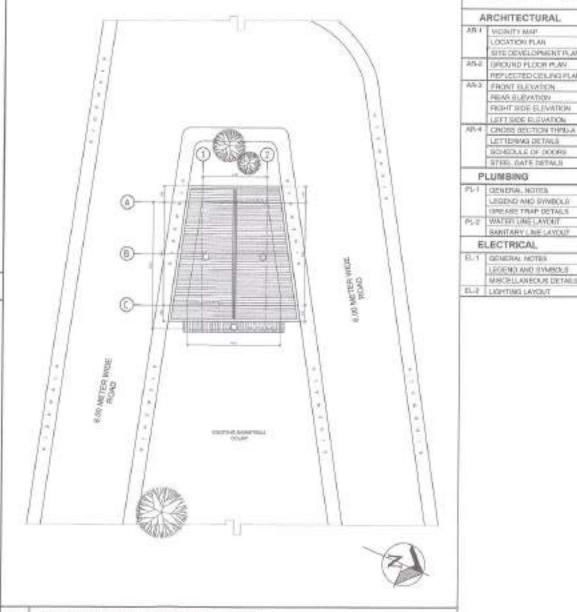
PLUMBING

SHE DEVELOPMENT PLAN

PREFLECTED CESLING FLAR







LOCATION MAP

SCALE NTS.

SCALE NTS.

SITE DEVELOPMENT PLAN

SCALE 1:200W

Republika ng Pitipinas Lungsod ng Quanon CTEV ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF ST. ANDREW DAY CARE CENTER >

PROJECT TITLE

PARTO (0036.65) DEDICT BY A REWISCH NO. MINOR MANAGEMENT WANTON, DISTRICT 6, GLECKIN CITY

DEMONSTRY : XXXX





PODDHEROUS APPROVA

HON, MA. JOSEFINA G. BELMONTE OTY MAYOR

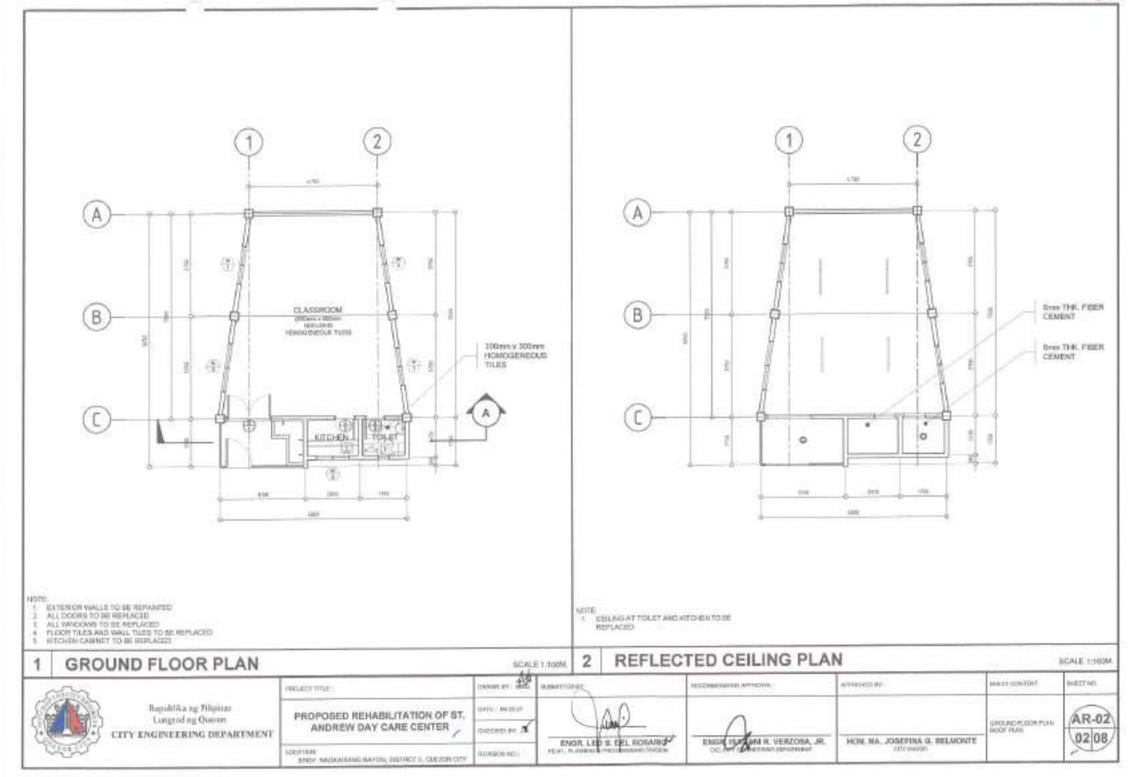
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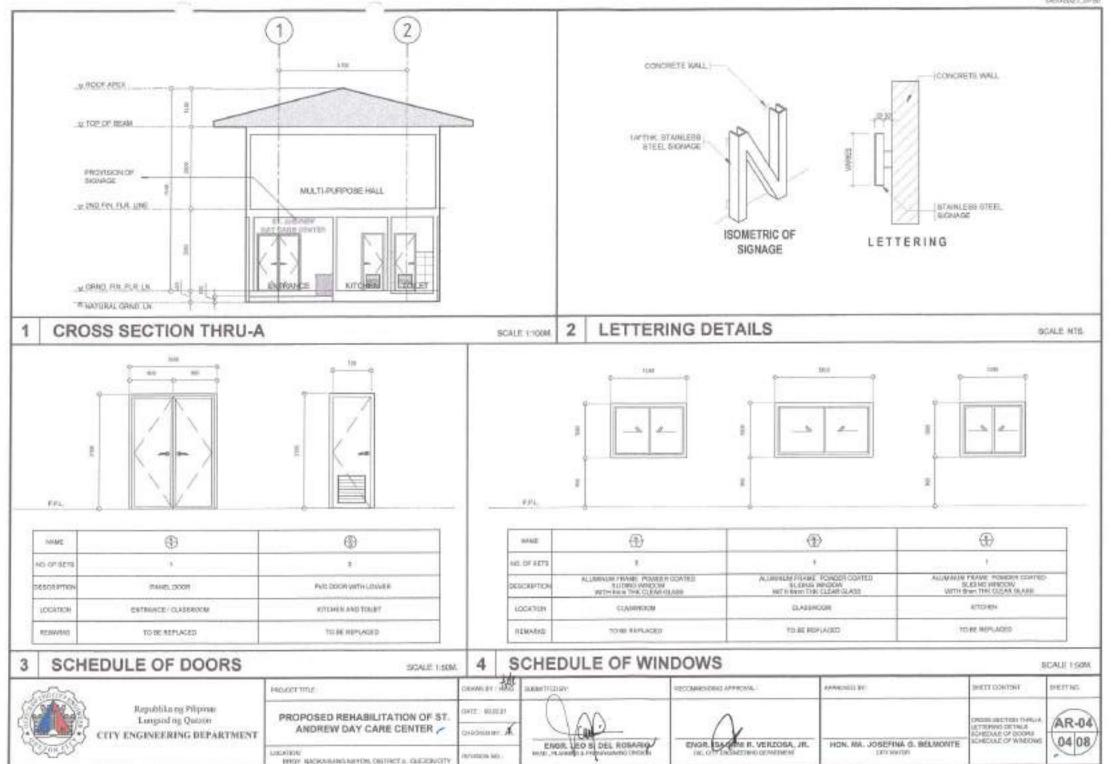
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BEET NO.







- 1 All plumbing works and materials indicated herein shall be compliant to the provisions of the latest edition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility componies and the provisions of the land developer when and where applicable.
- 2 The plumbing layout is only diagrammatic, pipes, cleanouts and check valves shall be concessed as much as possible. It is not intended to show the actual dimension of the pipes and fetures in the drawing but all the pipes and fetures shall be installed as and where indicated. Any relocation will require proper execution in relation with other trades.
- 3 The plumbing contractor shall varify all existing utilities at the site and shall coordinate the work with other trades.
- 4 Pipes shall not be embedded in structural members unless otherwise specified or allowed.
- 5 Minimum slope for horizontal sewer lines shall be 1% and for drain lines shall be 5%.
- 6 Proposed plumbing utilities stoll conform with the actual location; depth and invert elevation of all solsting pipes\u00e4dilities.
- 7 Connection of fixtures to pipes and fittings shall be according to manufacturer's specifications.
- 8 All foor drains shall be vented individually.
- 9 All clean out femules shall be flush-mounted to wall and shall be provided with policited cover caps. Do not install floor clean outs except at lines on grade and sevice press not subject to traffic.
- 16 Aft underground GJ, pipes in direct contact with soil shalf be provided with two (2) soals of protective for covering and wrapped with lute cloth thoroughly scaled in fair or explicit.
- 11 Provide vent stack and vent pipe thru mof of cast iron service weight as inquired.
- 12 All cast iron pipes shall be of approved quality and G.I. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.
- 13 Provide gate valves to all water supply lines to focures.
- 14 All hot water lines shall be provided with proper insulation where exposed.
- 15 All individual branches to flutures or group of futures and/or equipments shall be provided with air chambers or capped vertical pipe extensions of dimensions as shown.
- H = 450 mm for 19 mm Ø and larger
- H = 300 mm for 12 mm Ø and smaller
- 16 All hose bibbs shall be 19 mm 2 (3/4" (f) unless otherwise indicated.
- 17 Inlet gipe of septic tank is 50 mm higher than the sighon gipe which is 30 mm higher than the outlet gipe.
- 18 All plumbing works and manner of construction shall be under the direct supervision of an able and duly licensed. Master Plumber or Registered Sanitary Engineer, Any discrepancies found in plan shall be notified to the same person.

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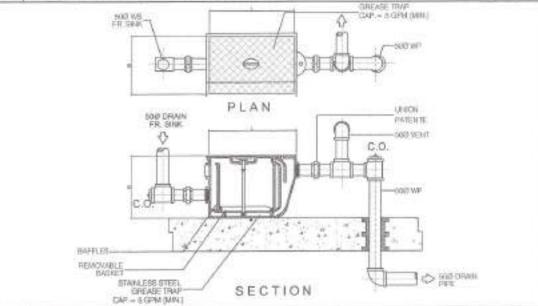
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	LAWATORY
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5240	SHOWER DRAIN
CBL	CATCH BASIN
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GREASE TRAF

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mental .	DECK VALVE
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2 LEGEND AND SYMBOLS

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OF CHYCHEN

1 GENERAL NOTES

SCALE NTS.

BURNITED DR.

3 GREASE TRAP DETAILS

BCALE NTS.

THEFT CONTENT



Republika ng Pilipinas Lungsod ng Quesso CIEY ENGINEERING BEPARTMENT GMM-DS: DE

HERY SWOKASCHE NAVEN, DISTRICT 6; QUESTIVICTY

PROPOSED REHABILITATION OF ST. ANDREW DAY CARE CENTER DECORDER \$

WITHOUND.

ENGR. LED S. DEL ROSARISM

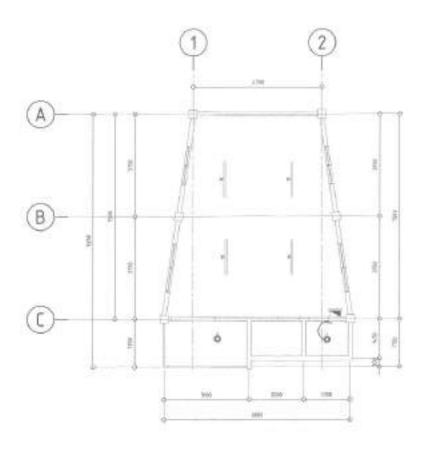


RECOMMENDING APPROVAL

HON, INA, JOSEPHNA G, BELMONTE:

CETY MWYORL





NOTE: 1. USHTS TO SE REPLACED.

EXISTING LIGHTING LAYOUT SCALE 1:100M. DENNING AND APPROVED BY SHOOT SOMETIME DESTRU PROJECT TOLE: SECONDO DE L'ACCORDINATION DE L' Republika ng Pilipinsa Lingsod ng Queron DALE BY SAME PROPOSED REHABILITATION OF ST. EL-02 ANDREW DAY CARE CENTER LIGHTING LAYOUT: CIECKED IN TH CITY ENGINEERING DEPARTMENT 08 08 ENSR, LEGS, DEL ROSARIO

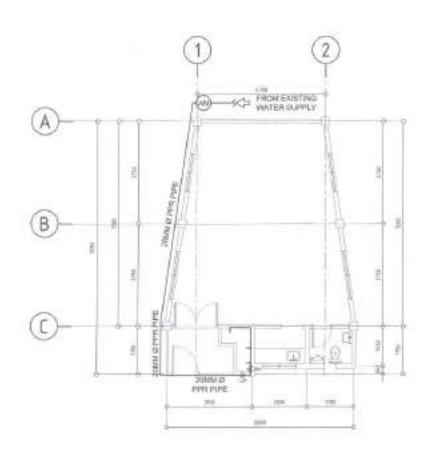
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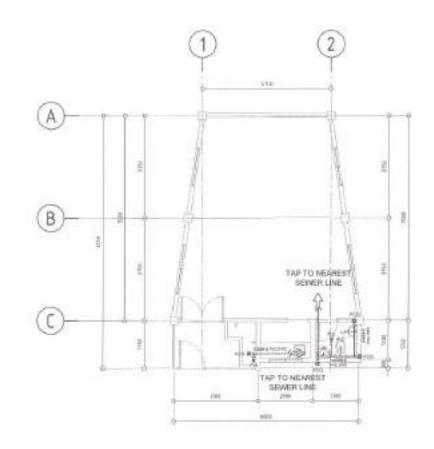
LODGICUM.

BRIDY RAZINARIANG HAYON, DRITTHET 8 J. GUETOMOTY

ENGR. BAGA R. VERZOBA, JR.

HON. MA. JOSEFINA G. BELMONTE





AUL FULRISHING FOXTURES TO SE REPLACED
 MATEROLISE AT HAND WASHING TO BE
 REPLACED.

ALL PLUMBNIC PIKTURES TO BE REPLACED
 SANTARY LINE TO BE REPLACED

WATER LINE LAYOUT

SCALE NTS.

SANITARY LINE LAYOUT

TECOMMERCING APPROVAL:

SCALE NTS. 89151101

SHEET CONTENT

Republikang Pilipinas Lungsoding Queson CITY ENGINEERING DEPARTMENT

MODELL TREE PROPOSED REHABILITATION OF ST. ANDREW DAY CARE CENTER COCATION: BIRDS: NAGRADIANO NATION, DISTRICT S. CALCIDIFICITY

Per Spire GREE - 68-00-219 G-COHOLDER BY MINUSCHIAN .

NUMBER OF STREET ENDR. LEW B. DEL ROSARDO



WATER LINE LAYER! HOW MA. JOSEPHNA G. SELMONTE

APPROVEDBY

PL-02 06 08

- 1. BUILDINGS, BEING BALLIE DOE BLACCHDARD WIN HE ROWSED IN THE LATER DRIVE OF THE PAURING. SECURES, ODDS. THE LAWS AND ORDINANCES OF THE LOCAL CODE DAYORCHIG AUTHORITICS AND THE RODARDING OF THE LOCAL POWER AND TELEPHONE WILLTY COMPANY.
- a. The contractor should accuse all interests and nev all tips accurate trait the work and shall running the OWNERS THROUGH THE ENGINEERS. FIAM, CONTINUATES OF ELECTRICAL, INSPECTION AND ARMICUIA, FROM MICHIGA DOWNSHIPS AUTHORITIES FOR COMPLETION OF WORK.
- 3. ALI MARCONO BRANCHIO DIGULAR BIRALI SE PRO CORRIGATA AND POR EXPOSED BRANCHIO DIGULAR BIO SUPPORTED BY CORDUIT CLARKS WARY THO MILLION/TER
- # TRU LIDICED DIANLE DE PROCEDED DY THE CONTRACTOR BRESIDER RETEXANY TO ENQUEET WHET PULL AND EVEN IF THESE. WIS NOT RESONTED ON THE RUNN. HISTORY OF ALL PLAUDING SHALL BE COMPUTED SAFED ON THE COOK REQUIREMENT). BUBBLY SHOP CRAWAGE TO THE DISHEST FOR APPROVAL PROFITS PARTICLAL CONTEST OF PULLBORISSHALL BE APPROVED BY THE ARCHITECT/SHIGHBIN JRD QUARTER REPLECTED ON THE VALUE. THE ARCH
- 8. ILL POWER DUTLETS WAS SHITTENED SHALL BE DESCRIBED THE WITH PLEASURE, BLUTS FOR DROY
- 8. PROJUBI ORBADO RALLI CURRENTI INTERRAPTER CONCUIT MERARIN POR LONDA WARREST FOR DIVITAL PLANE.
- ALL NEYALLO CONDUITS, QUINE IS 410 EQUIPMENT SIMILL SE PROPERLY GROUNDED 410 001/000
- 6. LENCES CONTRAMME NOTED, INCLUSTING HEXB-IT FOR WALL MOUNTED DISVICES SHALL BE AS FOLLOWS:

PRODUCT ROLLS OUTLIET - 200 MW APF , HOUSE ABOVE WORKING COLUMNIC

DILEMMENT - TO READ APP. CREY OUTLET - 300 MM AFF

LOSSTERS SAFECH - 1485 MET ARE THINELDOARD - 1010 MIT APP

- 8 BEFSR TO MICHARION, PUMBERS AND PRE PROTECTION DRAWNELL/FOR RATINGS AND LOCKTONG OF GOLFMENT AS WELL. 48 THER CONTROL REQUIRED AS SPECIFIED AND OR BROWN LINDER THEIR RESPECTIVE DOCTORS.
- 18. YEL WATERWALK TO BE DOED GHALL BE OF THE BEST GUALITY. BRING NEW AS SPEDIFIED.
- III. THE DRIVINGS AND SPORTNETHOUGH ARE INTO COST TO WISSON DISHOULD AND INDUSTRIBUTION CONTINUED BY THE PROJECT BUT DO NOT NECESSARILY REDICATED RECOVERS ACTUAL LOCATIONS, LINES, AND ITSENVESSION THE EXAMPLE TO THE CONTRACTOR IS HERROY REQUIRED TO WARE SUCH ASSUSTMENT AT THE CORDS AS LICENSTIN. DECAMPSE. PARTICIPALS AND GOVERNMENT BY ACTUAL PERIOD CONSTITURE.
- 13. WAS DESCRIPTION OF THE PLANS AND EXCORDANCES WHALL BE INCOME. FOR THE ATTENDANCE THE ENGINEER FOR CLAPHTICATION/ORCHOM.
- TO ALL DOMESTIC OWNERS OF CONCERN CONTRACTOR OF THE THREE CONTRACTOR OF THE CONTRACT REPORTED FOR MANY THAT, BUT IS NO HAVE CONTROL WAS ALL MINES AND CARLES SHILL BE COLDE COORD AS POLICIONS.

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14. BOYES, MINE GUTTONS, ENGLIGHTE SHALL BE FARMULY ED PROMISTES, WITH THEORY BIS NO YOULSHIM. WUMUN NIGTH OF THE WIDERT SURPASSIONES.

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OA TO PARTED WITH METAL PRIMER SPORY AND FORODAL DA 16 ANN/FED WITH METAL PRINCE SPORT AND TORGOT!

- HE. ALL IS SCHOOL WORKS HEREIN SHALL HE EXCEPTED BY EXPERIENCE MENUALISM THE DIRECT BUPENWISH OF A FULL THE LICENSE DESCRIBER. SHOWER AND A DULY ACCREDITED ELECTRICAL COMPANYOR BY POAR WORKS SHALL BE HERTLY PLACED, DEDURE LY PAUTERIO AND PROPOSITY PERCHED.
- 18. THE OF SEWARD DUPWARD GOALS WE SHOULD THANK TAKEN WER THAN DECIME. BUT HERT DOWN CHOMINA.
- 17 CONDUSTS ASSOCIATE ASSOCIATED AND THE WORLD SHARP SHARP SHARP SHARP ASSOCIATED AND ASSOCIATED AS CONDUCTABLES SHILL BE THE DIRECT OF LIKE IN HIS PERSONS WHITE AND MAKE THE PERSONS AND THE PER TO THE CODE REQUIREMENTS.
- 18 UPON COMPLETION OF SUSCINESE, CONSTRUCTION WORK, HIGHLATION TEST AND TEST AND TUNCTIONALTY TEST ANALY. BILL PROFESSION THE CONTRACTOR ROLLINGS OF THE INSTALLATION TO BE REPORTED IN DETAILS ON PERFORMS WIRRORD. BY THE QUESTIVICATY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GRIDUAL PRESENTANCE POR SUBSTRICK SITETIMA. SHILL NOT MEMORY THAN ECHARE COMMUNICATION DROCKED RESIDENCE SHALL NOT EXCEND JUSTICE.



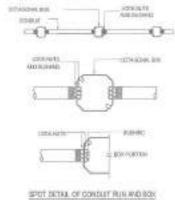
LEGEND & SYMBOLS

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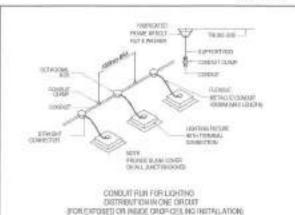




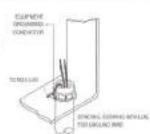






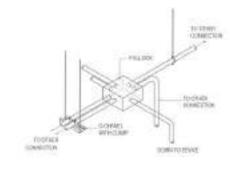






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PROPER CONDUCT LAYOUT IN PALL BOX

GENERAL NOTES

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MISCELLANEOUS DETAILS

SCALII NTS. DATES



Republika ng Pilipinas Lungsoiling Quezon CITY ENGINEERING DEPARTMENT PROJECT TIME:

PROPOSED REHABILITATION OF ST. ANDREW DAY CARE CENTER .

BROY NAGRASANG HAVON DETRICTS DUCKNOTY

CHANGE THE DETEN - 001 00 0T енрократия: Же

RESERVING:

SLEWITTED DY .. ENOR. LEG S. DEL ROBARIS

EMBR. SAMENI R. VERZOSA, JR.

CODMICHONO APPROVAL

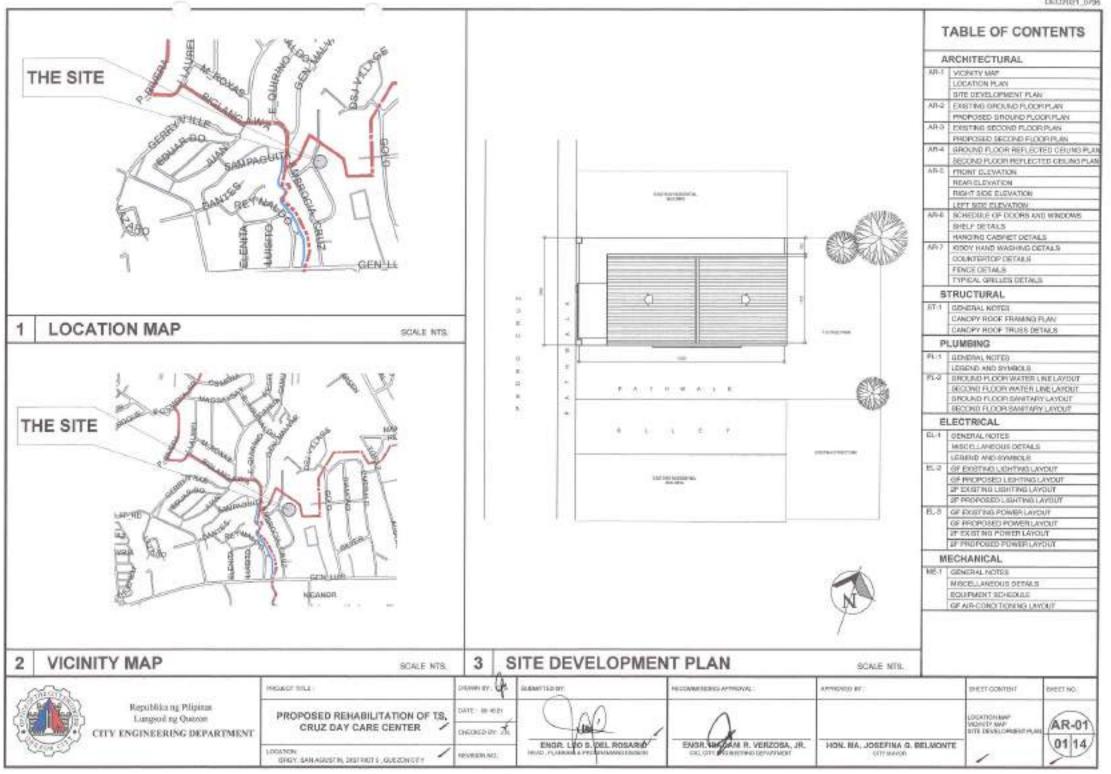
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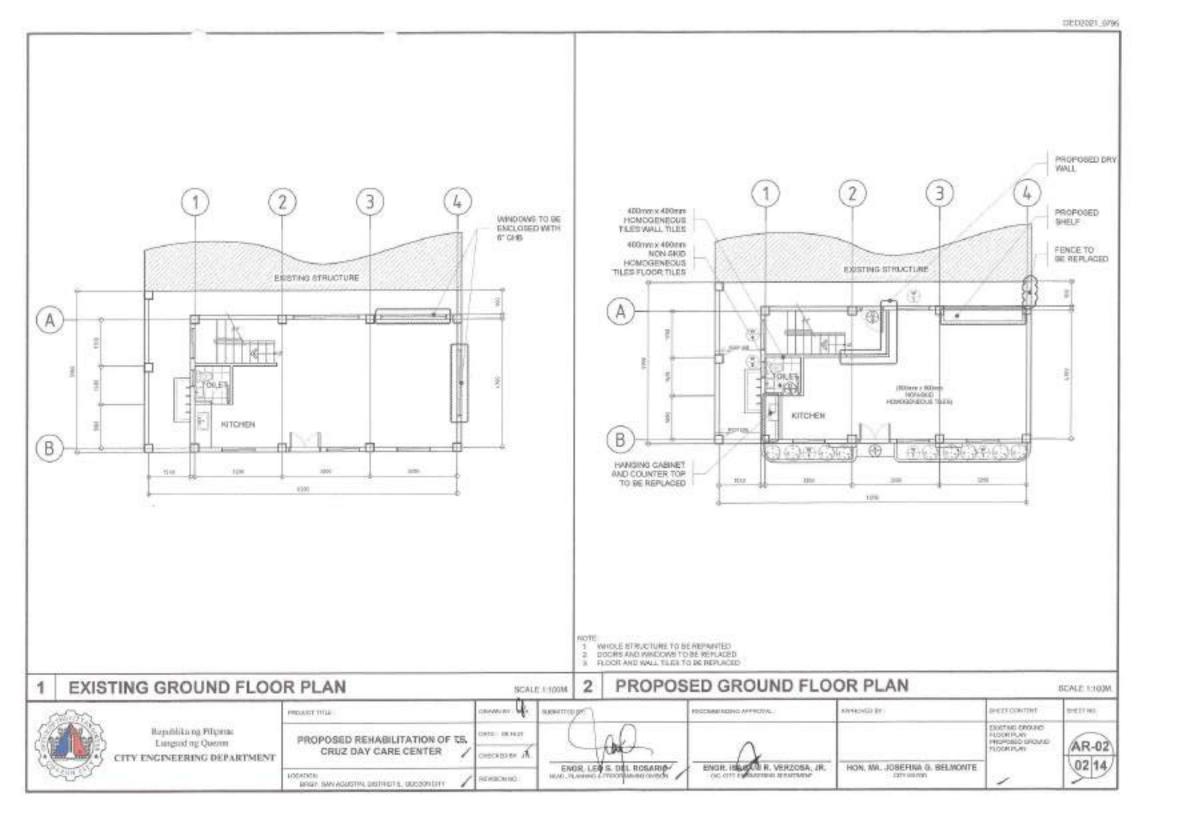
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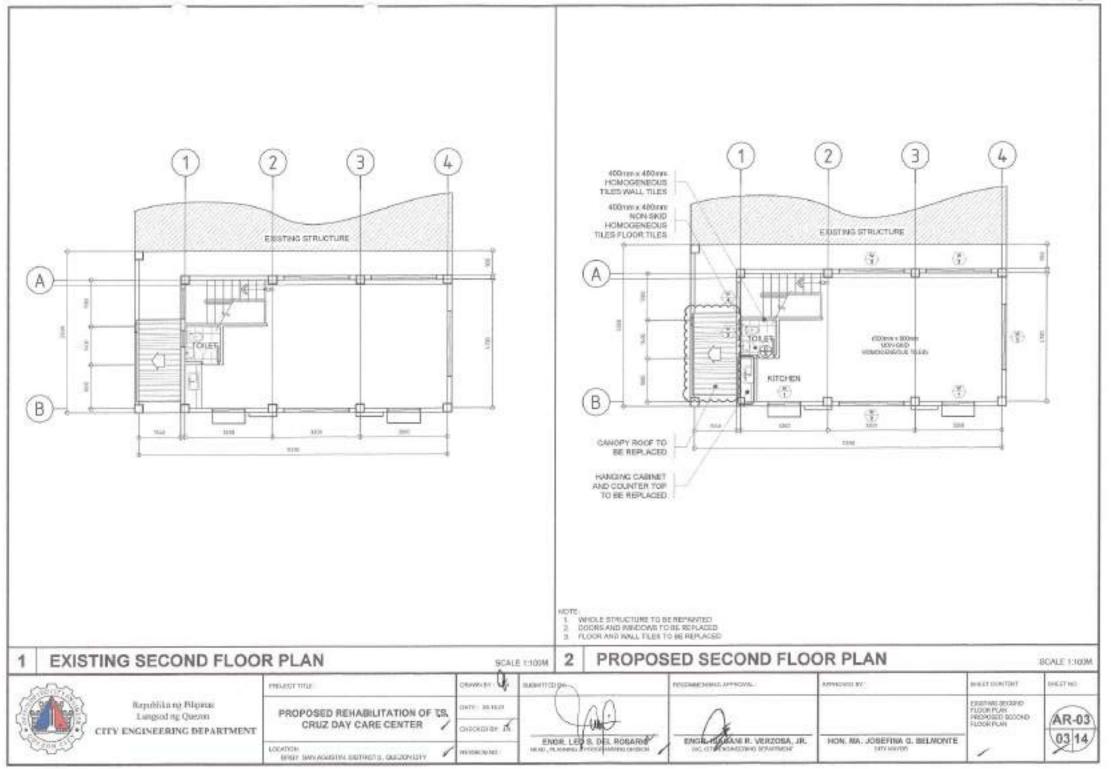
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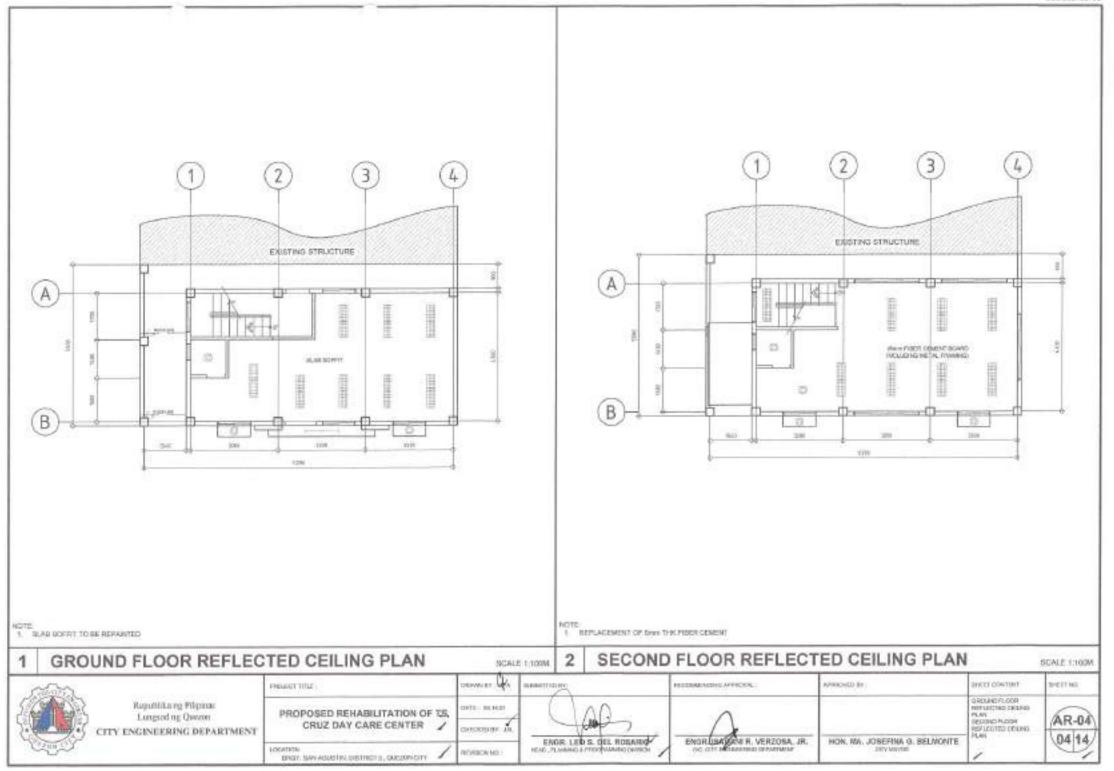
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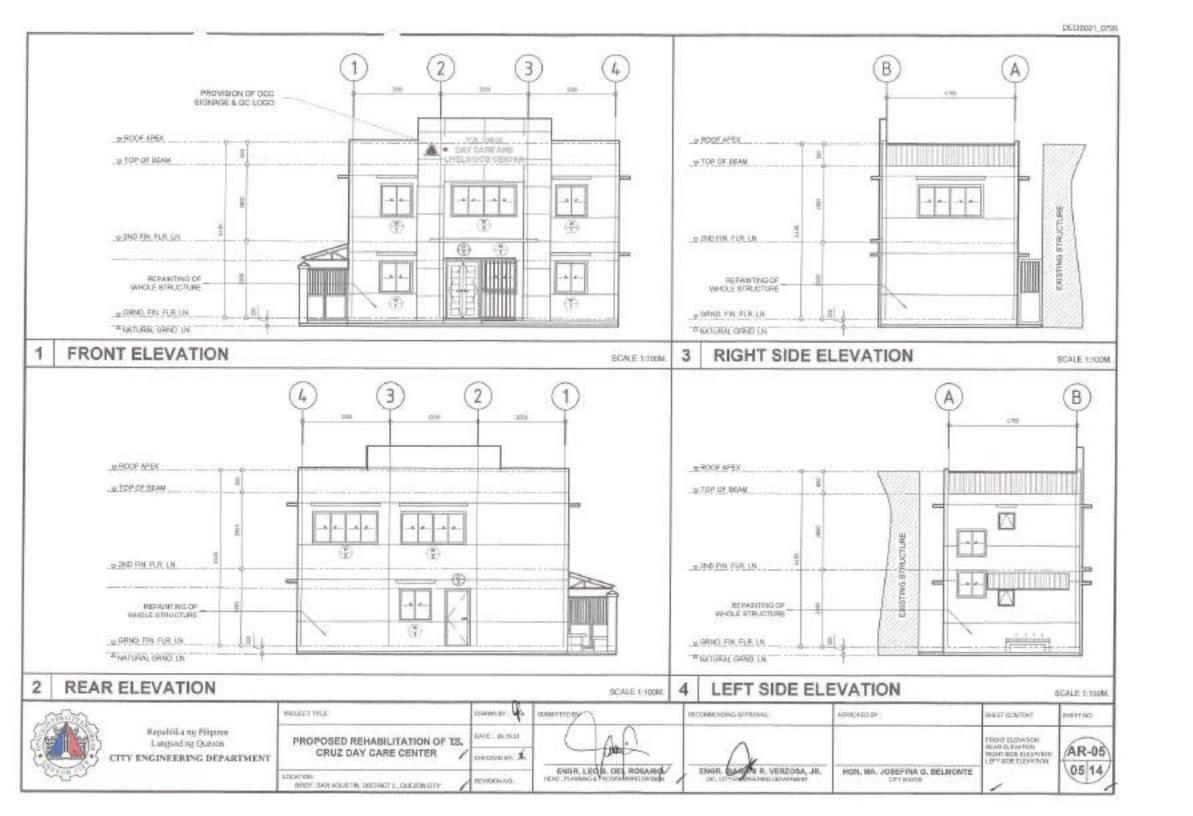
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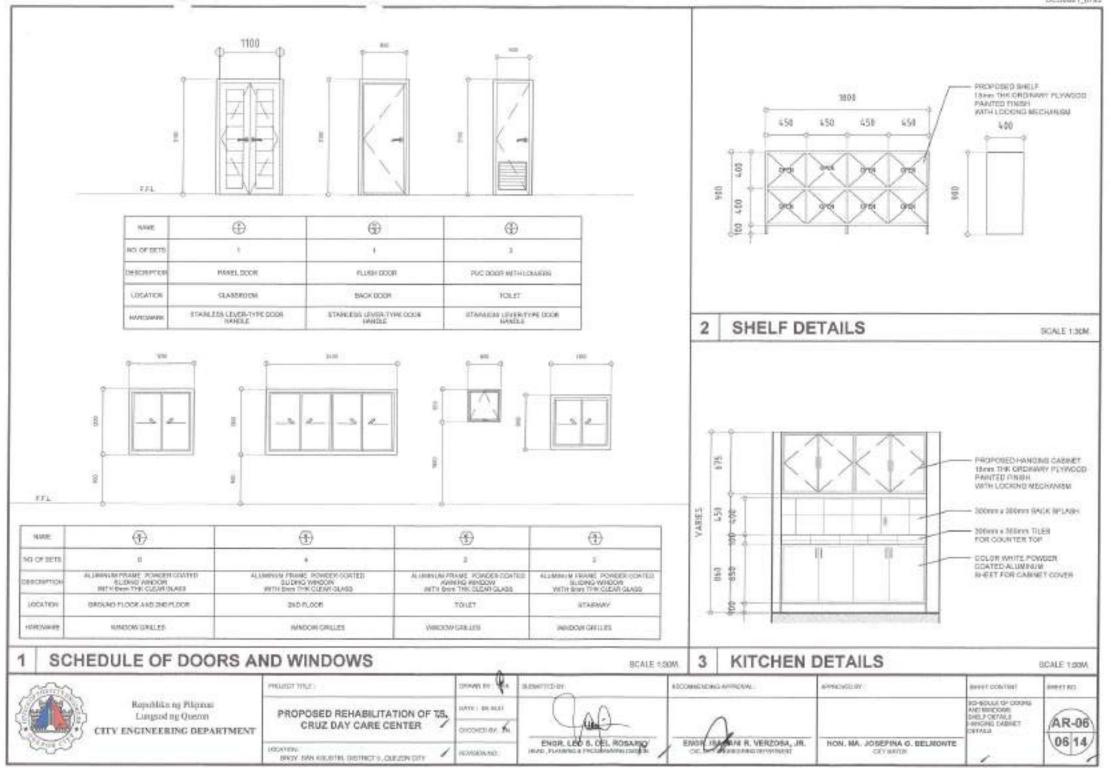


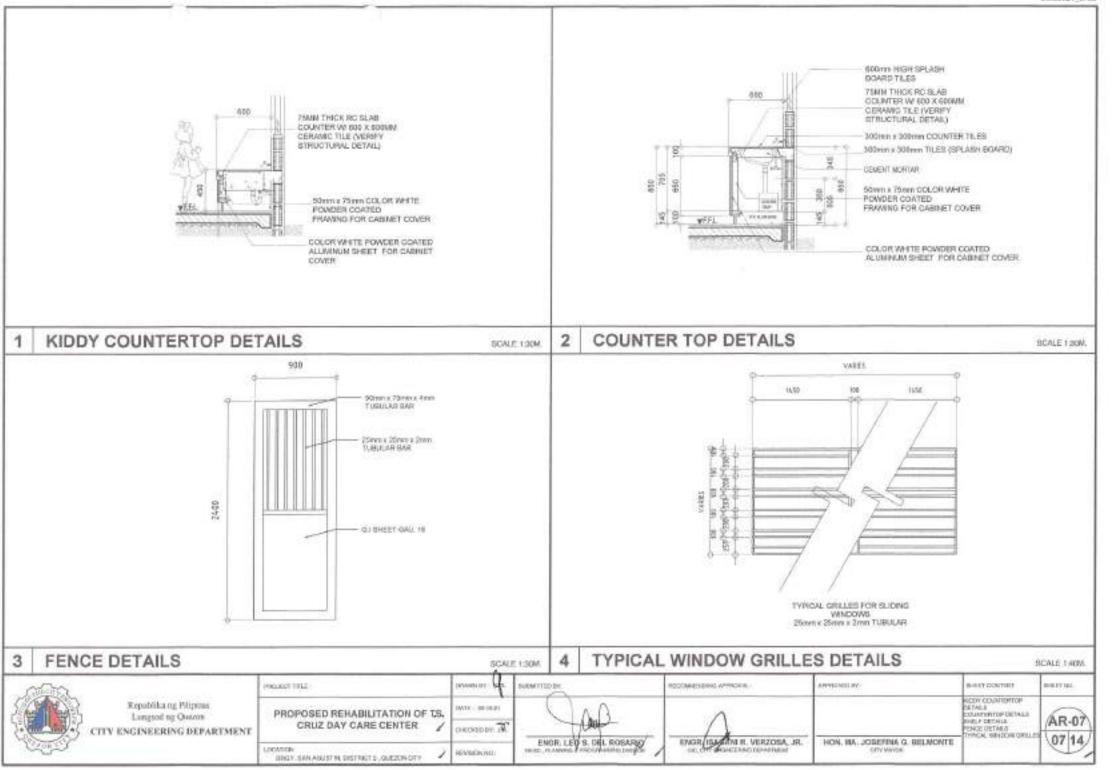




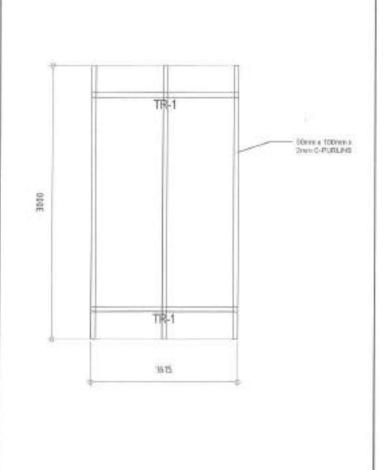


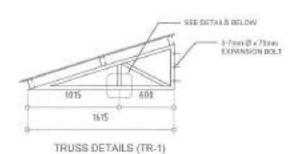






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TOP AND BOTTOM CHORD: 2-38mm x 38mm x 6mm ANGLE BAR MIDDLE CHORD:

2-38mm x 38mm x 6mm ANGLE BAR



NOTE

1.38 mm x 38 mm x 8mm. THICK ANGLE BAR. (TOP & BOTTOM CHORD)

SHEET CONTENT

* 38 mm x 36 mm x 6 mm ANGLE BAR (WEB WEMBER)

* 50rep.x 100mm x 2mm C-PURLING SPACING AS-SHOWN

CANOPY ROOF FRAMING PLAN SCALE 198M.

anon really

REVISION NO.

CANOPY TRUSS DETAILS

AUTHORIDAY:

BOTTOM CHORD (TYPICAL)

SCALE 130M. DIEET NO



Republika ng Pilipinas Lingsod og Quezen. CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF TS. CRUZ DAY CARE CENTER

BRIGHT SAM AUUSTIN, UST THEET S, GLEZIUNGTH -

accens to

DESCRIPTION OF ENGR. LEG S. DEL ROSARIO PERSONAL PROGRAMMENT PROCESS.

ENGR. ISAGON II. VERZOSA, JR.

AVORTO GESTAWATER

CHARGE ROOF MARRIED CARDINY TITLAGO DETAGO HON, BA. JOSEFINA G. BELMONTE SHEE WAYDE

ST-01 08 14

- 1 All plumbing works and materials indicated herein shall be compliant to the provisions of the latest edition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.
- 2 The plumbing layout is only diagrammatic, pipes, cleanouts and check valves shall be concealed as much as possible. It is not intended to show the actual dimension of the pipes and futures in the drawing but all the pipes and futures shall be installed as and where indicated. Any relocation will require proper execution in relation with other trades.
- 3 The plumbing contractor shall verify all existing utilities at the site and shall conditinate the work with other tractes.
- 4 Pipes shall not be embedded in structural members unless otherwise specified or allowed.
- 5 Winimum stope for horizontal sewer lines shall be 1% and for disin lines shall be 5%.
- 6 Proposed plumbing utilities shall conform with the actual location, depth and invert elevation of all existing pipes/utilities.
- 7 Connection of features to pipes and fittings shall be according to manufacturer's specifications.
- 8 All floor drains shall be vented individually.
- 9 All clean out femilies shall be fush-mounted to wat and shall be provided with polished cover caps. Do not install floor clean outs except at lines on grade and sevice areas not subject to traffic.
- 19 All underground G.1. pipes in direct contact with soil shall be provided with two (2) costs of protective tar covering and wrapped with jute cloth thoroughly scalled in tar or asphalt.
- 11 Provide vent stack and vent pipe thru roof of cast iron service weight as required.
- 12 All cast into pipes shall be of approved quality and G.I. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.
- 13 Provide gate valves to all eater supply lines to forures.
- 14 All hot water lines shall be provided with proper insulation where exposed.
- 15 AF individual branches to fixtures or group of fixtures and/or equipments shall be provided with air chambers or capped vertical pipe extensions of dimensions as shown.
- H = 450 mm for 19 mm Ø and larger
- H = 300 mm for 12 mm Ø and graater
- 16 All hose bibbs shall be 19 mm @ (3/4" Ø) unless otherwise indicated.
- 17 Inlet pipe of septic tank is 50 mm higher than the siption pipe which is 30 mm higher than the outlet pipe.
- 18 All plumbing works and manner of construction shall be under the direct supervision of an able and duly licensed. Master Plumber or Registered Sanitary Engineer. Any discrepancies found in plan shall be notified to the same person.

PRODUCT TITLE:

PROPOSED REHABILITATION OF TS.

CRUZ DAY CARE CENTER

BROV. SAN AGUSTRI, DISTRICT IS CONJUNIOTY

I. PIXTURES AND OTHER LEGEND.

FD RD	FLOOR DRAIN ROOF DRAIN
100 100 100	SHOWER
WC	WATER CLOSET
URI	URINAL.
KS	KITCHEN SINK
BD	BUILDING DRAIN
DD	DECKDRAIN
000	CEILING CLEANOUT
FCO	FLOOR/GROUND CLEANOUT
DS	DOWNSPOUT
mes	millimeter
Ð	mit DIAMETER
SHD	SHOWER DRAIN
CB	CATCH BASIN
MH	MANHOLE
-	DIRECTION OF FLOW
(3)	GREASE TRAP

	UNION PATENT
-	CHECK VALVE
180	BOILDING SEWER
(iD)	BUILDING DRAIN
PT -	WASTELINE
ANTON	AREA DRAIN / CATCH BASIN
PE	PLOOR DRAIN
2	DUMETER
	WASTE LINE
_	WATERLINE
	GATEVALVE
(b)	DECK DRIVIN
60	CLEANOUT
	PIPE DOWN
	PIPE UP
200	MILIMETER
29	GATE VALVE
13	AREA DRAWN / CATCH BARRY
'WE	WATER CLOSET
DEV	LWATGRY
161	MAN-IOLE.
99	HOSE BIBB
and the last	STORM DRAIN LINE
	VENTURE
:WE:	VENT ABOVE CELLING
400 1400	CONCRETE PIPE / REINF, CONC. PIPE
YOU	VENT THRU ROOF
Chi-	DIRECTION OF FLOW/SLIDPE

GENERAL NOTES

SCALE WIS.

LEGEND AND SYMBOLS

RECOMMENDATE REPROVING

SCALE NTS.

THEFT OCCUPENT

GETSWILLNOTED

SCHO AND SMEDULE

Republika ng Pilipinas Lungsoding Quozon CITY ENGINEERING DEPARTMENT

HOTE | 60.10121

essenting M

HENRIKON NO.

WHITE BY

ENGR. OFO B. DEL ROSARDO

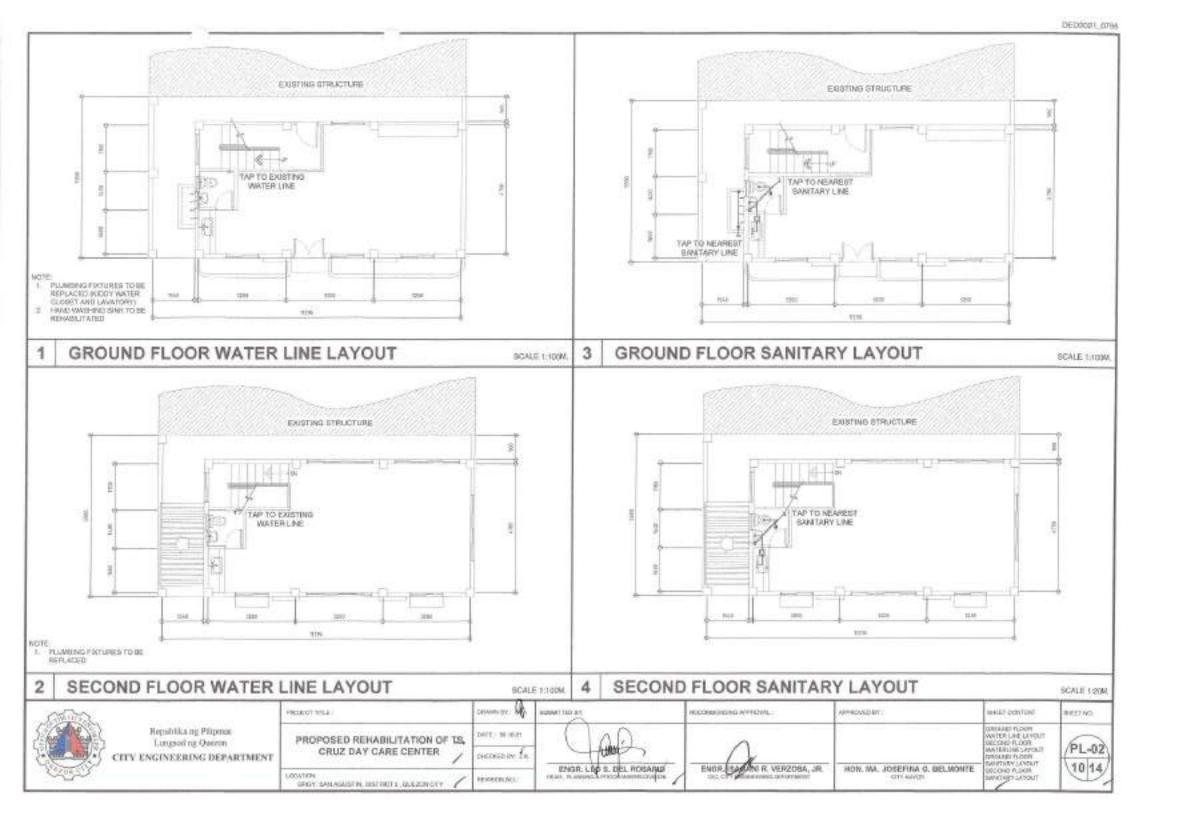
ENOR/ISADEM R. VERZOSA, JR.

HON, MA. JOSEPINA G. BELMONTE **CITY WAYKE**

PARTICIPATE INC.

PL-01

ONTEND.



- A.L. ELECTRICAL MODRAL SHALL BE DON'T IN ACCORDANCE WITH THE PROJECTION OF THE LATEST BOY, AN OF THE PARK SPANE ELECTRICAL COSTS. THE LAWS AND ORDINANCES OF THE LOCAL CODE SINFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TO ERVICUS ATTEMY DOMPANY
- 2. THE CONTRACTOR SHALL SOCURE ALL PERMITS AND PAY ALL TEST REQUESTS FOR THE WORK AND SHALL FLANKER THE CHRIST THROUGH THE ENDARGUES THAT, CERTIFICATES OF ELECTRICAL HISTOTICAL AND ADDROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF
- 8. ALL EVERDORD SPANCH CREDITE SHALL BE, PVC COMBUTE AND FOR EXPORED WISTALLATION SHALL BE INC. SUPPLIED BY CONDUCT CLAMPS. SURBY TROMUMETERS
- 4. FULL BOXES BHALL BE PROVIDED BYTHE CONTRACTOR WHENEVER RECESSARY TO RECUITATE WAY: PULLING EVEN ATTHESE WIRE NOT INDICATED ON THE PLANK, REINSTOP ALL PULLBOILES WALL BY COMPUTED BASHD OF THE CODE REQUIREMENTS, SUBATIONED DRAWINGS TO THE EARLINGS FOR APPROVAL FROM TO FARRIGATION LOCATION OF PULLBOOKIS SHALL BE APPROVED BY THE ARCHITECT IS SOLDED. SE RIPLECTED ON THE "ABBUILT FLAN.
- 5. ALL POWER DUTLETS: AND SINF CHIES SHALL BE GROUND WILTHAW WITH AVAILABLE BLOTS FOR 250 V.
- 6. PROVIDE GROUND FAULT CURRENT INTERRUPTER CARCILL SHEAKIN FOR LOKON MARKUD "GFC" ON THE PLUS.
- 1. ALL RETALUD COMBUTTS, DARRIETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BOYDED
- B. URLESS OF REMASK MOTED, MICENTING HOUGHT FOR MALL MOMATED DEWICES SHALL SE AS POLLOWS.

RECEIVAGLE OUTLET - 360 MW ARY . HOWER HISOVE WICKNING COUNTER. TELESPICIAL CULTURES - 300 MM WHY CATY CUTLET - 500 MM N/F DOMESTICK - 1400 984 APP PARKLEDARD - 1900 MM APP

- 8 REPERTO MECHANICAL PLUMBERS WAS FIRST PROTECTION DISABILISES FOR HATRICS AND LOCATIONS OF SIGNIFICANT AS WELL AS THEIR CONTROL. SEQUEDICES AN EPICIPIED AND OR SHOWN MODER THEIR RESPECTIVE WICH USE.
- THE ALL MATERIALS TO BE USED SHIPL SE OF THE BEST QUALITY. BEAUTINEWAS SPECIFICO.
- 11. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLING DESCRIPTION OF THE PROJECT BUT DO NOT RECESSABLY MERCATE/DESCRIPED ACTUAL LOCATIONS. LEVEL ARE DISTANCES OF THE EQUIPMENT. THIS CONTRACTOR IS NEIGHBY REDUKED TO MAKE SUCH ADJUSTMENT AT THE JOSSITE AS LOCKTON, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- 12. ANY DISCRESSION RETRIEFATIVE PLANS AND SPECIFICATIONS GHALL BE DISCUSATED THE ACTION ON OF THE DISCRESS FOR CLARIFOLDING.
- 13. AU. LIGHTING AND CONVENIENCE OUTLET CHICUITS SHALL SE 5.5 SQ. MV. THANGO COPPER WIRE UNLESS CHIERWISE NOTED, MINIMUM BIZE OF WHILE SHALL BE 3 S SQ. WE COPPER WINE, AUL WIRES AND CASUSS SHALL SE COLOR CODED AS FOLLOWS:

1.066 0 - 980 CMCD-VEILOW MENTRAL - WHITE SHOOKS - GROOKS

14 MOXIS, WIRE, DUTTERN, ENCLOSURE SHALL BE PASHIDATED FROM STEEL WITH THICKNESS AS FOLLOWS:

HAVE MUSE WEITH OF THE WIDEST BURNAGE STEEL

137 TEX INCLUDING 182 40 MM GALTERNATED WITH HETAL PRIMER EPOKY AND TOPOOKT

DVER 102 40 MIN BUT 1901 OVEN 497 30 DVER 457 30 MM NUT NOT OVER 162 MM

SA 14 PRINTED WITH METAL PRINSER EPCSY AND TOPCOAT SA TE PRINTED WITH METAL WHIREH EPCKY AND TORGOLT.

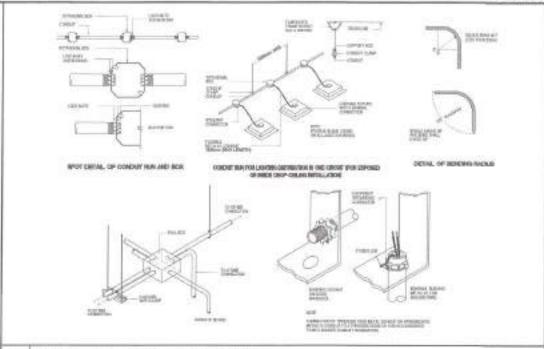
DVER WOMEN TIA VERNITTIES WITH SETTAL PRESIDE ARCRY AND TOPCOST IE. ALL ELECTRICAL WORKS HEREIX SHALL BE EXCELITED BY EXPERIENCED MIRK USDGR. THE EXPERT SUPRIMINEDA OF A FULL TIME LICENSES.

CLECTRICAL ENGINEER, AND A DULY ACCREDITED BLICTRICAL CONTRACTOR BY POAIL WORKE BHALL BE HEATLY PLACED. SECURELY PASTONED AND PROPERLY

ENGLINED.

- HE. TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 40 HERTZ, 2007 AC NOMBANA.
- IT. CONDUITS IN NO CASE SHALL THERE BE MORE THAN THE COLLYALENT OF FOUR QUARTER SENDO IN ANY ONE RISK ALL CONDUIT BOYDS GHALL DE PRICE MADE BY USING HYDRAUGO BENDERS. MANAGEMBEAD HIS RADIUS HUS? BE IN ACCOMPANCE TO THE CODE REQUIREMENTS.
- IN LIPOR COMPLETION OF ELECTRICAL CONSTRUCTION INDRES, INSULATION RESISTANCE TEST AND PLACTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR HICLISTIE OF THE HISTALLICION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE GREZON OF TENDRESHIND DEPARTMENT REPRESENTATIVE. THE RESUMD RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN EICHBE, COMMUNICATION DEOLEDING RESISTANCE THALL NOT EXCESS 2 CHIEF

PRESIDENT TITLE



MISCELLANEOUS DETAILS

BCALE NTS.

Ø,cu	ACU Quite:	(%)	Orbit Fan with Selector Switch	
0	Duplex Conversence Dutlet	S.	One Gang Switch	
	1200mm x 800mm LED tube in Troffer Fisture.	52,	Two Gang Bwilds	
-	1x18w T8 LED Tube Box Type Lighting Finture	S3,	Trees Gang Switch	
页	14w LED Light Bulb in Plastic Receptacle	3S _e	Three way Switch	

WHEN STATEMENT

GENERAL NOTES

SCALE NTS

DENNINETY: NO

SUCCE OR VALUE

низмене Ль

FEMORES NO.

LEGEND AND SYMBOLS

AVVISED A RESIDENCE

SCALE NTS. MET NO.



Republika ng Pilipinas Lungsod ng Quezrn CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF TS. CRUZ DAY CARE CENTER

BROY, SAN ARUSTIN, INSTINUT & DUEZUNISTY

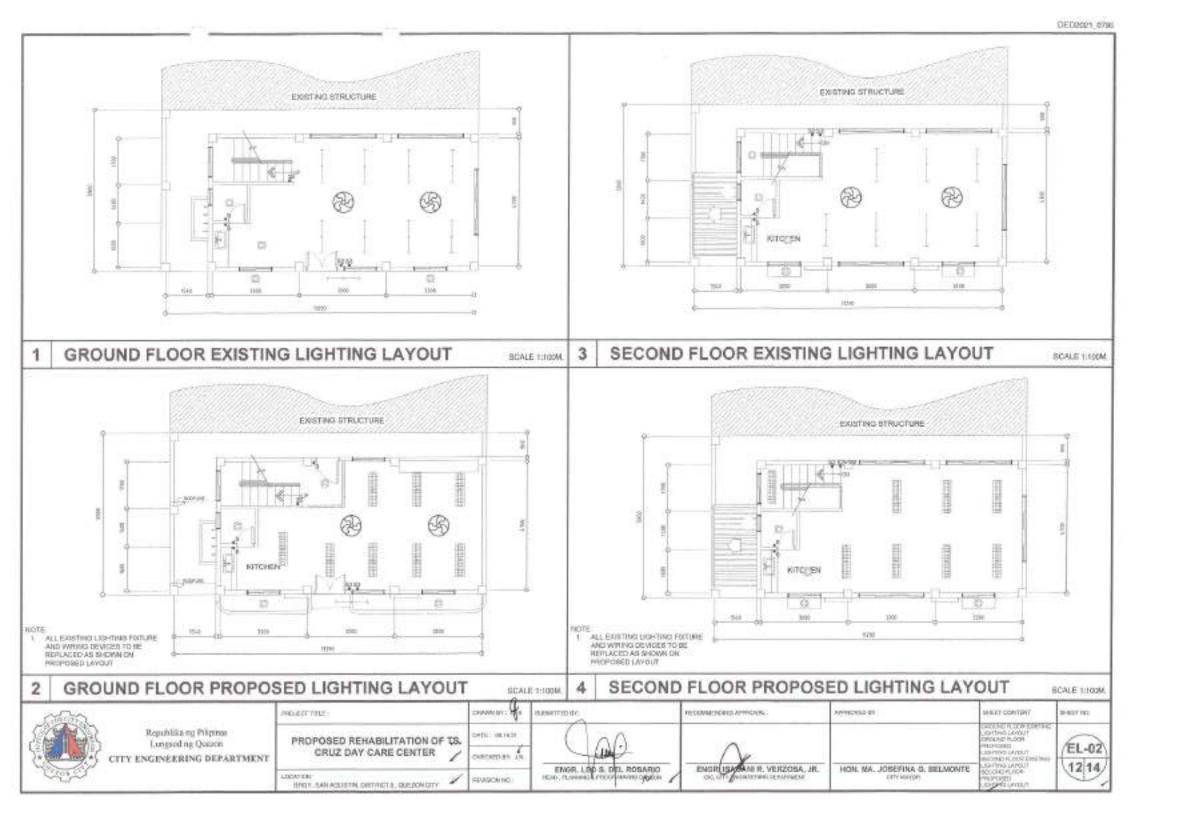


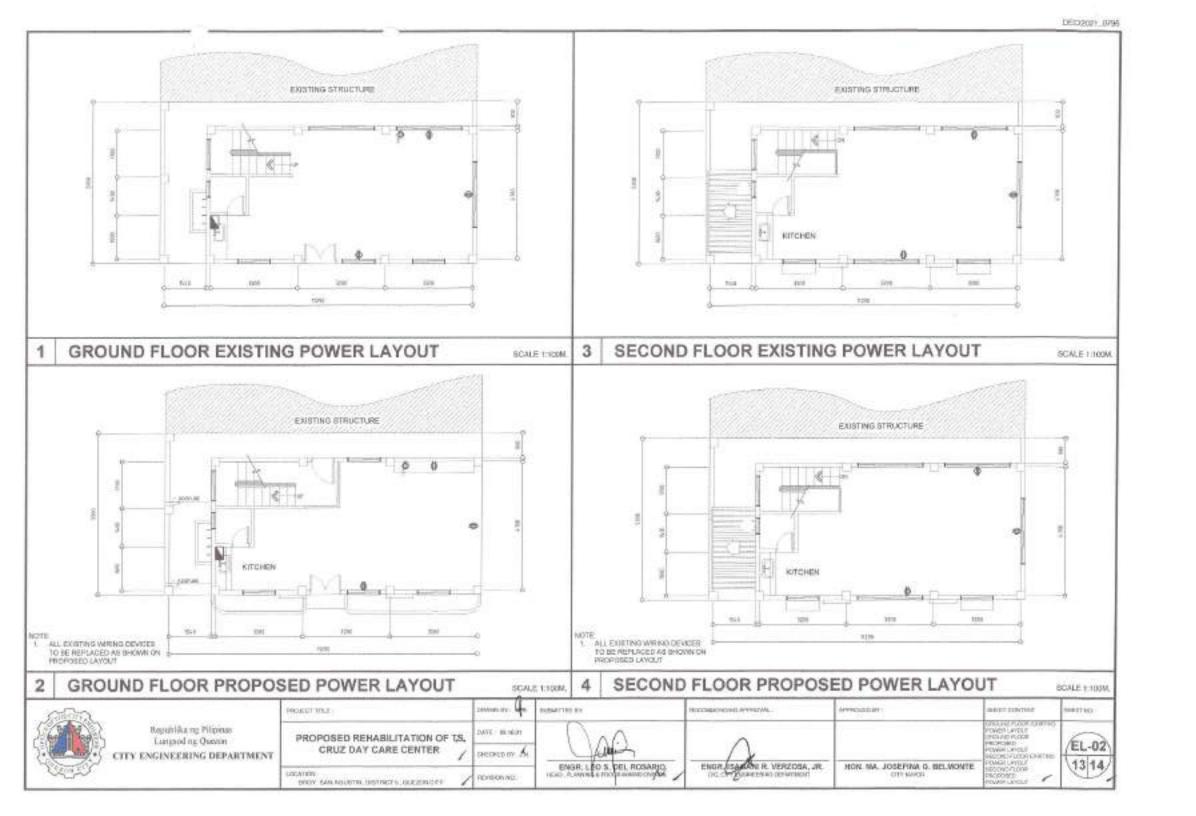
ENGR. BARDA R. VERZOBA, JR. Mariento Del Waller

DENEMAL NOTES CTICIOTI AND CHARPES III. MON, MA. JOSEFINA G. BELMONTE DETROYOR

WELL CONTENT

EL-01





- 1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE. AND THE RULES AND REGULATIONS OF QUEZON CITY.
- THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
- THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES, ALL ARCONDITIONED SPACES SHALL BE MAINTAINED. AT 24°C OB AND 50% RH.
- ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C OB AND 50% RH.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS, SAMPLES, INCLUDING YERATION. ISOLATORS BEFORE EXECUTION OF WORK.
- ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED. WITH VIBRATION ISOLATORS TO PREVENT VIBRATIONS AND NOISE. TRANSMISSION.
- EXHAUST FAN SHALL BE PROVIDED WITH SUITABLE FLEXIBLE CONNECTIONS TO DISCHARGE DUCT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF HE WHOLE VENTILATION AND AIRCONDITIONING SYSTEM AND INSTALLATION.
- ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL
- PROVIDE CONTROL WIRING FOR AIRCONDITIONING EQUIPMENT.
- 11. PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.
- 12. ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB.
- 11. ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB
- 14. PROVIDE GUIDES, HANGERS, AND SUPPLEMENTAL STEEL SUPPORT FOR ALL PIPING, DUCTING AND EQUIPMENTS.
- PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THRU BUILDING. STRUCTURE
- ALL PIPE DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

GENERAL NOTES

BOALE: NTB

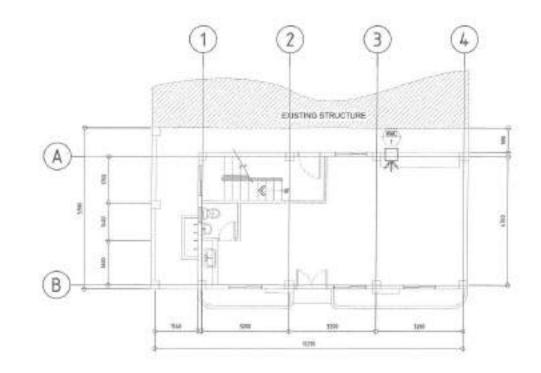


WINDOW TYPE AIR-CONDITIONER AIR-COOLED CONDENSING UNITS

mineral Martines	- newboar	numbers.	COOLING CAPACITY		AIR CIRCULATION	POWER INPUT	ELEC	TRICAL SI	UPPLY	REMARKS
DESIGNATION	LOCATION	SUMMETER	HP.	KAMR	AN ONDOCATION	WATTS	VOLTS:	PHASE	HERTZ	REMOVABLE WYAKE ORILLE EASY TO CLEAN
WAC	AS SHOWN ON PLANS	1867	2596	25,500	000 GEW	2840	330,0	167	60.0	WITH BACFLITER, W. MECHANICAL ON/OFF TIMER

EQUIPMENT SCHEDULE

SCALE MTB



LEGENDS AND SYMBOLS

SCALE: NES

PERMITTERS

LOCKICK

GROUND FLOOR AIR CONDITIONING LAYOUT

BCALE: 1:100M SHEET NO.



Republika ng Pilipinas Langeof ng Quaxon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF TS. CRUZ DAY CARE CENTER.

CHECKED IN A DIGY SANAGISTIN, DISTRICT \$ DUCKON DTY

DOWNER TO

SATE GRANDS

esswiftinge: ENGR. LEG S. DEL ROSARIO

ENDRY ISAMANI R. VERZOBA, JR.

SHOWING BEINGON.

EGISHER WAS SHIRED. API-CONDITIENTED HON, MA, JOSEFINA G. BELMONTE

CITEMANOR

MARKET SONTON

APPENDED IN



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 REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 / AREA IX

LOCATION : BARANGAY NAGKAISANG NAYON AND SAN AGUSTIN, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00007

DURATION: Sixty (60) Calendar Days

BREAKDOWN OF COST

ITEM	ITEM OF WORK	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
NO.	(DESCRIPTION)			INDIKEOT GGGT	AGGREGATE GGGT
	ST. ANDREW DAY CARE CENTER, BARAI	NGAT NAGKAISANG	NATON		
<u> </u>	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	LAZARO DAY CARE CENTER, BARANGA	Y NAGKAISANG NAY	ON		
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
Ш	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	JONAVILLE DAY CARE CENTER, BARAN	GAY NAGKAISANG N	IAYON		
I	GENERAL REQUIREMENTS				
П	SITE WORKS				
Ш	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	NAGKAISANG NAYON 1 DAY CARE CENT	ER, BARANGAY NA	GKAISANG NAYON		•
I	GENERAL REQUIREMENTS				
Ш	SITE WORKS				
Ш	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	T. S. CRUZ DAY CARE CENTER, BARANG	AY SAN AGUSTIN			•
I	GENERAL REQUIREMENTS				
П	SITE WORKS				
Ш	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				

VII	MECHANICAL WORKS			
			TOTAL COST	₽
LUMP S	SUM BID IN WORDS :	 		
Contrac	etor:			
Bid Form				
Page 3 o	f 3			

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF ST. ANDREW DAY CARE CENTER

LOCATION : BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00007

SCOPE OF WORK:

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

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
ı	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Temporary Enclosure Around the Construction Area (h=2.4)	31	l.m.		
				Direct Cost I	P
II	SITE WORKS				
	Removal Works				
	Removal of Dilapidated Tiles	71	sq.m	₱	₽
	Removal of Ceiling	3	sq.m		
	Removal of Doors	3	set		
	Removal of Windows	9	sq.m		
	Removal of Water Closet	1	pece		
	Removal of Lavatory	1	pece		
	Removal of Urinal	1	pece		
	Removal of Floor Drain	1	piece		
	Removal of Kitchen Sink	1	piece		
	Chipping of Floor (Plumbing Works)	2	sq.m.		
	Clearing and Cleaning for Paint Preparation	160	sq.m.		
				Direct Cost II	P
III	CIVIL/STRUCTURAL WORKS				
	Masonry Works				
	Restoration of Concrete (Plumbing Works)	2	sq.m.	₽	₱
	Moisture Protection				
	Waterproofing Works				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Cementitious Capillary Type Waterproofing	4	sq.m.		
				Materials Cost III	₱
				Labor Cost III	
				Direct Cost III	₱
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	300mm x 300mm Non-Skid Homogeneous Floor Tiles	4	sq.m.	₽	₱
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	45	sq.m.		
	Floor Topping Preparation for Tile Works	49	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Wall Tiles	11	sq.m.		
	Ceiling Finishes				
	6mm Thk Fiber Cement Board Including Metal Framing	7	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors and Windows				
	D1 - (1.60m x 2.10m) Panel Door	1	set	₽	₱
	D2 - (0.70m x 2.10m) PVC Door with Louver	2	set		
	Door Jambs				
	Wooden Jambs				
	D1 - Panel Door Wooden Jamb	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	12	set		
	Door Knob, Lever Type, Stainless	4	set		
	Installation of Windows				
	W1-(1.4m x 1.0m) Sliding Window on Powder Coated Aluminum Frame	3	set		
	W2-(1.8m x 1.0m) Sliding Window on Powder Coated Aluminum Frame	1	set		
	W3-(1.2m x 1.0m) Sliding Window on Powder Coated Aluminum Frame	1	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Polisia Mada				
	Painting Works				8
	Elastomeric Paint Finish (Exterior Walls)	86	sq.m.	₽	₱
	Latex Paint Finish				
	Interior Walls	83	sq.m.		
	Ceiling	7	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	2	sq.m.		
	Under Counter Cabinet	2	l.m.		
	Letterings				
	200mm Stainless Steel Lettering				
	"ST. ANDREW DAY CARE CENTER"	22	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Materials Cost	₱
				Labor Cost	
				Subtotal	₽
				14 () () () () () ()	
				Materials Cost IV	₽
				Labor Cost IV	В.
				Direct Cost IV	P
٧	PLUMBING/SANITARY WORKS				
	Sanitary Line/Storm Drainage System				
	50mm Ø PVC Pipe with Hub	5	piece	₽	₱
	100mmØ PVC Pipe with Hub	7	piece		
	50mm Ø x 50mm Ø Wye	5	piece		
	100mm Ø x 50mm Ø Wye	5	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	10	piece		
	50mm Ø x 50mm Ø PVC 1/8 Bend	10	piece		
	50mm Ø x 32mm Ø PVC Tap Tee	5	piece		
	50mm Ø PVC Cleanout	4	piece		
	50mm Ø PVC P-Trap	4	piece		
	Waterline System		-		
	20mm Ø G.I. Pipe	7	piece		
	20mm Ø G.I. Coupling	2	piece		
	20mm Ø G.I. 90° Elbow	2	piece		
	20mm Ø PPR Pipe	6	piece		
	20mm Ø x 20mm Ø Tee Equal	6	piece		
	25mm Ø x 20mm Ø Unequal Tee	3	piece		
	25mm Ø x 20mm Ø Reducer	3	piece		
	20mm Ø 90° Elbow	7	piece		
	25mm Ø 90° Elbow	3	piece		
	20mm Ø Union Patent	2	piece		
	20mm Ø Coupling	3	piece		
	20mm Ø Male Adaptor	6	piece		
	Valve and Appurtenances				
	20mmØ Gate Valve PPR	2	piece		
	50mmØ Check Valve	1	piece		
	20mmØ Water Meter	1	piece		
	Fixtures				
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	1	unit		
	Grease Trap, 5GPM, Heavy Duty, with Accessories	1	set		
	Hose Bibb, Heavy Duty (Water Efficient)	3	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Kitchen Sink, Single	1	piece		
	Kitchen Sink Faucet, Lever Type (Water Efficient)	1	piece		
	Lavatory, Wall Hung, Kiddy	1	unit		
	Lavatory Faucet, Lever-type, Stainless Steel (Water Efficient)	1	piece		
	Water Closet, Tank Type, Kiddy (Water Efficient)	1	unit		
	Accessories & Hardwares				
	Angle Valve, Single-Way, Stainless	4	piece		
	Angle Valve, Two-Way, Stainless	1	piece		
	Flexible Hose, Stainless	5	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	All Purpose Sealant	2	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	4	roll		
	Waste Cloth	2	kg		
				Materials Cost V	₱
				Labor Cost V	
				Direct Cost V	₱
VI	ELECTRICAL WORKS				
	Lighting and Power System				
	Devices and Fixtures				
	T8, 11w LED Tube light	4	piece	₱	₱
	11 Watts LED Bulb	2	piece		
	Wiring Devices				
	Switch with plate and cover, One-gang	1	piece		
	Miscellaneous & Consumables				
	All around Sealant	1	tube		
	Electrical Tape	1	roll		
	Hacksaw Blade	2	piece		
	Masking Tape	1	roll		
	Rubber Tape	1	roll		
				Materials Cost VI	₽
				Labor Cost VI	
				Direct Cost VI	₽

SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
 V V	GENERAL REQUIREMENTS SITE WORKS CIVIL/STRUCTURAL WORKS ARCHITECTURAL WORKS PLUMBING/SANITARY WORKS ELECTRICAL WORKS	TO TO

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
• NOT	E: Strictly enforce health protocols relative to the latest applicable DPWH memorandum	Miscellan	Overh	rotal direct cost ead, Contingencies and Consumables Expenses (OCM) Profit VAT	
			тот	AL ESTIMATED COST	₽

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF LAZARO DAY CARE CENTER

LOCATION: BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00007

SCOPE OF WORKS:

1

General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health, and cleaning, hauling and disposal of construction materials and debris.

- 2 Site Works include demolition/removal works and cleaning and clearing for painting preparation.
- 3 Civil/Structural Works include moisture protection and roofing works.
- Architectural Works include floor finishes, wall finishes, ceiling works, installation of doors and windows, painting works and letterings.
- 5 Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.
- 6 Electrical Works include installation of roughing-ins, wirings, devices, fixtures and accessories.
- 7 All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
ı	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₱
	Cleaning, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	153	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	51	l.m.		
				Direct Cost I	₽
II	SITE WORKS				
	Demolition/Removal Works				
	Removal of Existing Ceiling	152	sq.m.	₽	₽
	Removal of Existing Tiles	63	sq.m.		
	Removal of Existing Door and Door Jambs	5	set		
	Removal of Existing Windows	9	sq.m		
	Removal of Existing Roofing and Accessories	162	sq.m.		
	Removal of Plumbing Fixtures	5	set		
	Chipping of Wall for Electrical and Plumbing Works	9	sq.m		
	Cleaning and Clearing for Painting Preparation	295	sq.m.		
				Direct Cost II	P
Ш	CIVIL/STRUCTURAL WORKS				
	Moisture Protection				
	Cementitious Capillary Type Waterproofing (Comfort Room)	5	sq.m.	₽	₽
	Roofing Works				
	Pre-painted Rib Type G.I Roofing	170	sq.m		
	Pre-painted Ridge Roll	19	l.m.		
	Pre-painted Gutter	31	l.m.		
	Pre-painted G.I Flashing	19	l.m.		
	6mm thick One-Sided Aluminum Foil Thermal Insulation	170	sq.m		
	12mm x 300mm Fiber Cement Fascia Board	59	l.m.		
	Silicon Sealant	4	tube		
	Tekscrew	1,700	piece		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Materials Cost III	₽
				Labor Cost III	
				Direct Cost III	₽
IV	ARCHITECTURAL WORKS				
	Floor Finishes	4			ъ
	300mm x 300mm Non-Skid Homogeneous Floor Tiles	4	sq.m.	₽	₽
	600mm x 600mm Homogeneous Floor Tile	39	sq.m.		
	Floor Topping for Preparation of Tile Works	43	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Wall Tiles	24	sq.m.		
	Ceiling Works	400			
	6mm thick Fiber Cement Board including Metal Framing	160	sq.m.		
				Materials Cost	₽
			-	Labor Cost	_
				Subtotal	P
	Installation of Doors		<u> </u>		
	Doors				
	D1 - 1.0m x 2.1m Solid Wood Panel Door	1	not .	₽	₽
	D2 - 0.9m x 2.1m Solid Wood Panel Door		set	P	<u> </u>
	D3 - 0.6m x 2.1m Solid Wood Panel Door	1	set		
	D4 - 0.6m x 2.1m Solid Wood Pariel Door D4 - 0.6m x 2.1m PVC Door with Louver	2	set		
	Door Jamb		set		
		4			
	D1 - 1.0m x 2.1m Solid Wood Panel Door	1	set		
	D2 - 0.9m x 2.1m Solid Wood Panel Door	1	set		
	D3 - 0.6m x 2.1m Solid Wood Panel Door	1	set		
	Hardwares and Accessories	45	minon		
	Door Hinge, Heavy Duty, Stainless	15 5	piece		
	Door Knob, Lever Type, Stainless Installation of Windows	3	piece		
	W1 - 2.4m x 1.0m Aluminum Framed Casement Window (Powder	1	set		
	Coated) W2 - 1.6m x 1.0m Aluminum Framed Casement Window (Powder		Set		
	Coated)	3	set		
	W3 - 0.8m x 1.0m Aluminum Framed Casement Window (Powder Coated)	1	set		
	W4 - 0.5m x 0.5m Aluminum Framed Casement Window (Powder Coated)	2	set		
	,			Materials Cost	₽
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	160	sq.m.	₽	₽
	Epoxy Enamel Paint Finish (Steel Fence)	16	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	119	sq.m.		
	Ceiling	160	sq.m.		
	Letterings				
	200mm Stainless Steel Lettering "LAZARO DAYCARE CENTER"	19	set		
	BAZANO DATOANE GENTEN			Materials Cost	Ð
			1	iviaterials COST	1

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Labor Cost	
				Subtotal	₽
				Materials Cost IV	₽
				Labor Cost IV	
				Direct Cost IV	₽
٧	SANITARY/PLUMBING WORKS				
-	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	2	piece	₽	₽
	75mm Ø PVC Pipe with Hub	15	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	21	piece		
	75mm Ø x 75mm Ø PVC 1/4 Bend	1			
			piece		
	50mm Ø PVC P-Trap	3	piece		
	50mm Ø PVC Coupling	2	piece		
	75mm Ø PVC Coupling	1	piece		
	Water Line System				
	20mm Ø PPR Pipe, PN 16	1	piece		
	20mm Ø PPR 90° Elbow	2	piece		
	20mm Ø PPR Female Threaded Adaptor	2	piece		
	20mm Ø PPR Coupling	1	piece		
	20mm Ø PPR End Cap	2	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	2	set		
	Floor Drain, 100mm x 100mm, Stainless	3	piece		
	Hose Bibb, Lever Type, Stainless (Water Efficient)	10	piece		
	Lavatory, Wall-Hung	2	set		
	Lavatory Faucet, Lever Type (Water Efficient)	2	piece		
	Urinal, Bucket-Type (Water Efficient)	1	set		
	Water Closet, Tank Type (Water Efficient)	2	set		
	Accessories				
	Angle Valve, One-way, Stainless Steel	2	piece		
	Angle Valve, Two-way, Stainless Steel	2	piece		
	Flexible Hose, Stainless Steel	4	piece		
	Miscellaneous and Consumables		picco		
	400cc Solvent Cement	10	can		
	All Around Sealant	5			
	Hacksaw Blade	5	can		
		_	piece		
	Teflon Tape	8	roll		
	Waste Cloth	1	kg		_
			 	Materials Cost V	P
			1	Labor Cost V	_
				Direct Cost V	₽
VI	ELECTRICAL WORKS				
VI			1		
	Roughing-ins, Pipes and Fittings	40	1	₽	₽
	20mmØ PVC Pipe	40	piece	1	1
	25mmØ IMC Pipe	7	piece		
	Fittings and Accessories			J	

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mmØ PVC Adaptor	70	piece		
	20mmØ PVC Locknut and Bushing	70	pair		
	20mmØ PVC Elbow	10	piece		
	25mmØ IMC Coupling	6	piece		
	25mmØ IMC Locknut and Bushing	2	pair		
	25mmØ IMC Elbow	2	piece		
	50mm x 100mm PVC Utility Box	20	piece		
	100mm x 100mm PVC Junction Box with cover	15	piece		
	Wires and Cables				
	3.5mm² THHN Wire	2	roll		
	5.5mm² THHN Wire	40	lm		
	14.0mm² THHN Wire	40	lm		
	3.5mm² TW Wire	1	roll		
	8.0mm ² TW Wire	20	lm		
	Lighting Fixtures (Energy Efficient)				
	600mm x 1200mm, 2 x 18w LED, Troffer Type, With Complete Accessories, Recessed Type	2	piece		
	18W LED Bulb With Receptacle	3	piece		
	T5, 28W LED Tube Light	5	piece		
	Wiring Devices & Appliances				
	Orbit Fan, Heavy Duty With Selector Switch	2	piece		
	Weatherproof Outlet With Ground And Cover, Two-Gang	7	piece		
	Switch with Plate & Cover, One Gang	5	piece		
	Switch with Plate & Cover, Two Gang Switch	2	piece		
	Aircon Outlet, Multipurpose outlet 250V/20A	1	piece		
	Panelboard				
	LP	1	assy		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	20	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	All Around Sealant	2	can		
	Electrical Tape	10	roll		
	G.I Tie Wire	3	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	3	roll		
	Rubber Tape	3	roll		
	·			Materials Cost VI	₱
				Labor Cost VI	
				Direct Cost VI	₱

SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	AMOUNT
Ι.	OFNEDAL DEGLIDEMENTO	
	GENERAL REQUIREMENTS SITE WORKS	₱
"	CIVIL/STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	SANITARY/PLUMBING WORKS	

ITEM NO	WORK DESCRIPTION AND SCOPE	OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
VI	ELECTRICAL WORKS					
NOTE	Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum	Overhead, Conti	ingencies an		TOTAL DIRECT COST neous Expenses (OCM) Profit VAT	₽
				тот	AL ESTIMATED COST	₽

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF JONAVILLE DAY CARE CENTER

LOCATION: BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00007

SCOPE OF WORKS:

- General Requirements include billboard, clearing, hauling and disposal of construction materials and debris, construction safety and health equipment, scaffolding, and temporary enclosure.
- II Site Works include demolition / removal works and cleaning and clearing for painting preparation.
- III Civil/Structural Works include moisture protection works.
- IV Architectural Works include floor finishes, wall finishes, ceiling finishes, installation of doors & windows, painting works, fabricated materials and stainless letterings.
- V Sanitary and Plumbing Works include installation of roughing-ins, fixtures and accessories.
- VI Electrical Works include installation of roughing-ins, wirings, lighting fixtures, and wiring devices.
- VII 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
ı	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	P
	Clearing, Hauling and Disposal of Construction Materials and Debris	3	t.l.		
	Construction Safety and Health Equipment	1	unit		
	Scaffolding (Rental)	61	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	41	l.m.		
				Direct Cost I	P
П	SITE WORKS				
	Demolition / Removal Works				
	Removal of Floor and Wall Tiles	104	sq.m.	P	₽
	Removal of Ceiling	116	sq.m.		
	Removal of Doors	5	set		
	Removal of Windows	13	sq.m.		
	Removal of Under Counter Cabinet Door	2	l.m.		
	Removal of Water Closet	2	set		
	Removal of Lavatory	2	set		
	Removal of Kitchen Sink	1	set		
	Chipping of Wall (Electrical & Plumbing Works)	5	sq.m.		
	Cleaning and Clearing for Painting Preparation	423	sq.m.		
				Direct Cost II	P
III	CIVIL/STRUCTURAL WORKS				
	Moisture Protection Works				
	Cementitious Capillary-type Waterproofing (Toilet)	6	sq.m.	P	P
	Restoration of Concrete (Electrical & Plumbing Works)	5	sq.m.		
				Materials Cost III	P
				Labor Cost III	
				Direct Cost III	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
IV	ARCHITECTURAL WORKS		1		
IV	Floor Finishes		-		
		78	00 m	P	P
	Floor Topping for Preparation of Tiles		sq.m.	 	-
	300mm x 300mm Non-Skid Homogeneous Floor Tiles	6 72	sq.m.		
	600mm x 600mm Non-Skid Homogeneous Floor Tiles Wall Finishes	12	sq.m.		
		00			
	300mm x 300mm Homogeneous Wall Tiles	22	sq.m.		
	Counter Top Finishes				
	300mm x 300mm Homogeneous Tiles	8	sq.m.		
	Ceiling Finishes	101			
	6mm thick Fiber Cement Board including Metal Framing	121	sq.m.		
					P
				Labor Cost	_
				Subtotal	P
	Installation of Doors				
	Doors				
	D1 - 0.9m x 2.1m Wooden Panel Door	1	unit	P	P
	D2 - 0.7m x 2.1m Wooden Panel Door	2	unit	'	1
	D3 - 0.6m x 2.1m PVC Door with Louver	2	unit		
	Door Jambs		dint		
	D1 - 0.9m x 2.1m Wooden Door Jamb	1	unit		
	D2 - 0.7m x 2.1m Wooden Door Jamb	2	unit		
	Hardwares and Accessories		unit		
	Door Knob, Lever-type, Heavy Duty, Stainless	5	unit		
	Door Hinge, Heavy Duty, Stainless	15	unit		
	Installation of Windows	10	unit		
	W1 - 1.8m x 1.2m Sliding Glass Window on	5	unit		
	Powder Coated Aluminum Frame	3	unit		
	W2 - 0.8m x 1.2m Sliding Glass Window on	1	unit		
	Powder Coated Aluminum Frame	'	unit		
	W3 - 0.6m x 0.6m Awning Glass Window on Powder Coated	_			
	Aluminum Frame	2	unit		
				Materials Cost	P
				Labor Cost	
				Subtotal	P
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	119	sq.m.	P	P
	Flat Latex Paint Finish				
	Interior Wall	181	sq.m.		
	Ceiling	121	sq.m.		
	Epoxy Enamel Paint Finish				
	Door Grilles	2	sq.m.		
	Window Grilles	13	sq.m.		
	Fabricated Materials				
	Aluminum Cabinet Door	2	l.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Hanging Cabinet	2	sq.m.		
	Letterings				
	200mm Stainless Steel Lettering	22	set		
	"JONAVILLE DAYCARE CENTER"				
				Materials Cost	P
				Labor Cost	
				Subtotal	P
				Materials Cost IV	P
				Labor Cost IV	
				Direct Cost IV	₽
٧	SANITARY & PLUMBING WORKS				
	Sewer Line and Storm Drainage System				
	50mm Ø PVC Pipe with Hub	1	piece	P	P
	75mm Ø PVC Pipe with Hub	9	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	13	piece		
	75mm Ø x 75mm Ø PVC 1/8 Bend	1	piece		
	50mm Ø PVC P-Trap	5	piece		
	50mm Ø PVC Coupling	1	piece		
	75mm Ø PVC Coupling	1	piece		
	Water Line System		'		
	20mm Ø PPR Pipe, PN 16	1	piece		
	20mm Ø PPR 90° Elbow	2	piece		
	20mm Ø PPR Female Threaded Adaptor	3	piece		
	20mm Ø PPR Coupling	1	piece		
	Fixtures		'		
	Bidet with Complete Accessories, Stainless, Heavy Duty (Water Efficient)	2	piece		
	Floor Drain, 100mm x 100mm, Stainless	4	piece		
	Grease Trap, 5gpm, Stainless	1	set		
	Hose Bibb, Lever-type, Stainless, Heavy-Duty (Water Efficient)	11	set		
	Lavatory, Wall-Hung	2	set		
	Lavatory Faucet, Lever-type, Stainless, Heavy-Duty (Water Efficient)	2	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Water Closet, Tank Type (Water Efficient)	2	set		
	Accessories				
	Angle Valve, One-way, Stainless Steel	3	piece		
	Angle Valve, Two-way, Stainless Steel	2	piece		
	Flexible Hose, Stainless Steel	5	piece		
	Miscellaneous and Consumables				
	400cc Solvent Cement	3	can		
	All Around Sealant	2	can		
	Hacksaw Blade	5	piece		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Teflon Tape	10	roll		
	Waste Cloth	2	kg		
				Materials Cost V	P
				Labor Cost V	
				Direct Cost V	P
VI	ELECTRICAL WORKS				
	Pipes and Fittings				
	20mm Ø PVC Pipe	60	piece	P	₽
	25mm Ø IMC Pipe	5	piece		
	20mm Ø PVC Adaptor	60	piece		
	20mm Ø PVC Locknut & Bushing	60	pair		
	20mm Ø PVC Elbow	7	piece		
	25mm Ø IMC Coupling	4	piece		
	25mm Ø IMC Locknut & Bushing	2	pair		
	25mm Ø IMC Elbow	2	piece		
	50mm x 100mm PVC Utility Box	15	piece		
	100mm x 100mm PVC Junction Box with Cover	15	piece		
	Wires and Cables				
	3.5mm² THHN Wire	3	roll		
	5.5mm² THHN Wire	30	l.m.		
	14.0mm² THHN Wire	20	l.m.		
	3.5mm² TW Wire	2	roll		
	8.0mm² TW Wire	10	I.m.		
	Lighting Fixtures (Energy Efficient)				
	600mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	6	set		
	18W LED Bulb with Receptacle	2	piece		
	T5, 28W LED Tube Light	1	piece		
	Wiring Devices				
	Orbit Fan, Heavy Duty With Selector Switch	2	piece		
	Weatherproof Outlet with Ground and Cover, Two-Gang	7	piece		
	Switch with Plate & Cover, One-Gang	3	piece		
	Switch with Plate & Cover, Three-way, Three-Gang	2	piece		
	Aircon Outlet, Multi-purpose Outlet 250V/20A	1	piece		
	Panel Board				
	LP	1	assy		
	Main: 60AT, 2P, 230V, Bolt-on				
	Branches:				
	2 - 20AT, 2P, 230V, Bolt-on				
	2 - 30AT, 2P, 230V, Bolt-on				
	Enclosure: NEMA 1 with Ground Terminals				
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	30	l.m.		
	Miscellaneous & Consumables				
']		-	 	 	
	400cc Solvent Cement	2	can		
	400cc Solvent Cement All Around Sealant	2	can		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	GI Tie Wire, Ga. 16 (for Wire/Cable Pulling)	3	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	3	piece		
	Rubber Tape	3	roll		
				Material Cost VI	P
				Labor Cost VI	
				Direct Cost VI	P

SUMMARY

ITEM NO	WORK DESCRIP	AMOUNT	
 > >	GENERAL REQUIREMENTS SITE WORKS CIVIL/STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY & PLUMBING WORKS ELECTRICAL WORKS		₽
	ly enforce health protocols relative to the 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 REHABILITATION OF NAGKAISANG NAYON 1 DAY CARE CENTER

LOCATION : BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00007

SCOPE OF WORK:

- I. General Requirements include temporary enclosure, billboard, construction safety and health, and clearing, hauling and disposal of construction materials and debris.
- II. Site Works include removal works, and cleaning and cleaning for painting preparation.
- III. Civil Works include masonry works, moisture protection, metal works and roofing works.
- IV. Architectural Works include installation of floor finishes, wall finishes, doors and windows, fabricated materials, painting works and letterings.
- V. Plumbing / Sanitary Works include installation of roughing-ins, fixtures and accessories.
- VI. Electrical Works include installation of roughing-Ins, wirings, devices, fixtures and accessories.
- VII. All necessary testing and commissioning shall be performed in accordance to standards.

WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
GENERAL REQUIREMENTS				
Billboard	1	unit	₱	₱
Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
Construction Safety and Health	1	unit		
Temporary Enclosure Around the Construction Area (h=2.4)	48	l.m.		
			Direct Cost I	₽
SITE WORKS				
Removal Works				
Removal of Dilapidated Tiles	71	sq.m	₽	₱
Removal of Ceiling	3	sq.m		
Removal of Doors	5	set		
Removal of Windows	9	sq.m		
Removal of Water Closet	1	pece		
Removal of Lavatory	1	pece		
Removal of Urinal	1	pece		
Removal of Floor Drain	1	piece		
Removal of Kitchen Sink	1	piece		
Chipping of Concrete	2	sq.m.		
Clearing and Cleaning for Paint Preparation	160	sq.m.		
			Direct Cost II	₽
CIVIL/STRUCTURAL WORKS				
Masonry Works				
Restoration of Concrete (Plumbing Works)	2	sq.m.	₱	₱
Moisture Protection				
Waterproofing Works				
Cementitious Capillary Type Waterproofing	4	sq.m.		
Metal Works				
	GENERAL REQUIREMENTS Billboard Clearing, Hauling and Disposal of Construction Materials and Debris Construction Safety and Health Temporary Enclosure Around the Construction Area (h=2.4) SITE WORKS Removal Works Removal of Dilapidated Tiles Removal of Ceiling Removal of Windows Removal of Water Closet Removal of Lavatory Removal of Inal Removal of Floor Drain Removal of Kitchen Sink Chipping of Concrete Clearing and Cleaning for Paint Preparation CIVIL/STRUCTURAL WORKS Masonry Works Restoration of Concrete (Plumbing Works) Moisture Protection Waterproofing Works Cementitious Capillary Type Waterproofing	Billboard 1 Clearing, Hauling and Disposal of Construction Materials and Debris 2 Construction Safety and Health 1 Temporary Enclosure Around the Construction Area (h=2.4) 48 SITE WORKS Removal Works Removal of Dilapidated Tiles 71 Removal of Ceiling 3 Removal of Doors 5 Removal of Windows 9 Removal of Water Closet 1 Removal of Lavatory 1 Removal of Urinal 1 Removal of Floor Drain 1 Removal of Kitchen Sink 1 Chipping of Concrete 2 Clearing and Cleaning for Paint Preparation 160 CIVIL/STRUCTURAL WORKS Masonry Works Restoration of Concrete (Plumbing Works) 2 Moisture Protection Waterproofing Works Cementitious Capillary Type Waterproofing 4	GENERAL REQUIREMENTS Billboard Clearing, Hauling and Disposal of Construction Materials and Debris Construction Safety and Health Temporary Enclosure Around the Construction Area (h=2.4) SITE WORKS Removal Works Removal of Dilapidated Tiles Removal of Ceiling Removal of Doors Set Removal of Windows Removal of Water Closet Removal of Lavatory Removal of Floor Drain Removal of Floor Drain Removal of Kitchen Sink Chipping of Concrete Clearing and Cleaning for Paint Preparation Masonry Works Restoration of Concrete (Plumbing Works) Cementitious Capillary Type Waterproofing 4 sq.m.	Billboard 1 unit P Clearing, Hauling and Disposal of Construction Materials and Debris 2 t.l. Construction Safety and Health 1 unit Temporary Enclosure Around the Construction Area (h=2.4) 48 l.m. Direct Cost I SITE WORKS Removal Works Removal of Dilapidated Tiles 71 sq.m P Removal of Doors 5 set Removal of Windows 9 sq.m Removal of Windows 9 sq.m Removal of Unial 1 pecce Removal of Unial 1 pecce Removal of Flor Drain 1 pecce Removal of Flor Drain 1 piece Chipping of Concrete 2 sq.m. Clearing and Cleaning for Paint Preparation 160 sq.m. CIVIL/STRUCTURAL WORKS Masonry Works Restoration of Concrete (Plumbing Works) 2 sq.m. Moisture Protection Water Type Waterproofing 4 sq.m.

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	50mm x 125mm Rafter	50	kg		
	50mm x 75mm Purlins	17	kg		
	10mm Ø Sagrod	5	kg		
	16mm Ø Dyna Bolt	12	piece		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Cut Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	2	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted G.I. Rib-Type Roofing	26	sq.m.		
	Pre-painted G.I. End Flashing	23	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	23	l.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	26	sq.m.		
	Tekscrew	88	piece		
	Blind Rivets	65	piece		
	Silicon Sealant	2	tube		
				Materials Cost III	₽
				Labor Cost III	
				Direct Cost III	₽
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	300mm x 300mm Non-Skid Homogeneous Floor Tiles	4	sq.m.	₽	P
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	45	sq.m.		
	Floor Topping Preparation for Tile Works	49	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Wall Tiles	11	sq.m.		
	Ceiling Finishes				
	6mm Thk Fiber Cement Board Including Metal Framing	7	sq.m.		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Installation of Doors and Windows				
	D1 - (0.60m x 2.10m) PVC Door with Louver	1	set	₽	P
	D2 - (0.60m x 2.10m) Flush Door	1	set		
	D3 - (0.80m x 2.10m) Flush Door	2	set		
	D4 - (1.80m x 2.10m) Panel Door	1	set		
	Door Jambs				
	D2 - (0.60m x 2.10m) Flush Door	1	set		
	D3 - (0.80m x 2.10m) Flush Door	2	set		
	D4 - (1.80m x 2.10m) Panel Door	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	18	set		
	Door Knob, Lever Type, Stainless	6	set		
	Installation of Windows	1			
	W1-(1.60m x 1.10m) Sliding Window on Powder Coated	1	00t		
	Aluminum Frame	1	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	W2-(0.90m x 1.10m) Sliding Window on Powder Coated Aluminum Frame	2	set		
	W3-(1.60m x 1.10m) Sliding Window on Powder Coated Aluminum Frame	2	set		
	W4-(0.80m x 1.10m) Sliding Window on Powder Coated Aluminum Frame	1	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	86	sq.m.	₱	₱
	Epoxy Enamel Paint Finish (Metal Surfaces)	7	sq.m.		
	Latex Paint Finish				
	Interior Walls	83	sq.m.		
	Ceiling	7	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	2	sq.m.		
	Under Counter Cabinet	2	l.m.		
	Letterings				
	200mm Stainless Steel Lettering				
	"NAGKAISANG NAYON 1 DAY CARE CENTER"	29	piece		
			-	Materials Cost	₽
				Labor Cost	
				Subtotal	₽
				Materials Cost IV	₽
				Labor Cost IV	
				Direct Cost IV	₽
V	PLUMBING/SANITARY WORKS				
	Sewer Line / Storm Drainage System				
	100mm Ø, PVC Pipe with Hub				
		4	piece	₱	₽
	75mm Ø, PVC Pipe with Hub	4	piece piece	P	P
	•		-	P	P
	75mm Ø, PVC Pipe with Hub	4	piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub	4 9	piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye	4 9 2	piece piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye	4 9 2 1	piece piece piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye	4 9 2 1 4	piece piece piece piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye	4 9 2 1 4	piece piece piece piece piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye	4 9 2 1 4 1 5	piece piece piece piece piece piece piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend	4 9 2 1 4 1 5	piece piece piece piece piece piece piece piece piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend	4 9 2 1 4 1 5 10 4	piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend 75mm Ø, 1/8 Bend	4 9 2 1 4 1 5 10 4	piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend 50mm Ø, 1/8 Bend	4 9 2 1 4 1 5 10 4 8	piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend 75mm Ø, 1/8 Bend 50mm Ø, 1/8 Bend Cleanout 100mm Ø	4 9 2 1 4 1 5 10 4 8 1	piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend 50mm Ø, 1/8 Bend Cleanout 100mm Ø 100mm Ø, P-Trap	4 9 2 1 4 1 5 10 4 8 1	piece	P	P
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend 75mm Ø, 1/8 Bend Cleanout 100mm Ø 100mm Ø, P-Trap 50mm Ø, P-Trap	4 9 2 1 4 1 5 10 4 8 1 1	piece	P	
	75mm Ø, PVC Pipe with Hub 50mm Ø, PVC Pipe with Hub 100mm Ø x 100mm Ø, Wye 100mm Ø x 75mm Ø, Wye 100mm Ø x 50mm Ø, Wye 75mm Ø x 75mm Ø, Wye 75mm Ø x 50mm Ø, Tee 50mm Ø, 1/4 Bend 100mm Ø, 1/8 Bend 75mm Ø, 1/8 Bend 50mm Ø, 1/8 Bend Cleanout 100mm Ø 100mm Ø, P-Trap 50mm Ø, P-Trap	4 9 2 1 4 1 5 10 4 8 1 1	piece	P	P

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	100mm Ø x 75mm Ø, Reducer	2	piece		
	Waterline System				
	25mm Ø, PPR Pipe	4	piece		
	20mm Ø, PPR Pipe	7	piece		
	20mm Ø, Tee Equal	6	piece		
	20mm Ø, End Cap	4	piece		
	25mm Ø, 90 Deg Elbow	2	piece		
	20mm Ø, 90 Deg Elbow	12	piece		
	25mm Ø x 15mm Ø, Female Thread Tee	4	piece		
	25mm Ø, Coupling	4	piece		
	20mm Ø, Coupling	4	piece		
	25mm Ø x 20mm Ø, Reducer	2	piece		
	Fixtures				
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm Stainless Steel	1	piece		
	Grease Trap, 5GPM, Heavy Duty with Accessories	1	set		
	Hose Bibb, Heavy Duty (Water Efficient)	7	piece		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Lever Type (Water Efficient)	1	set		
	Lavatory Wall Hung Kiddy	1	set		
	Lavatory Faucet, Lever-type, Stainless Steel (Water	1	piece		
	Urinal, Flash Valve, Kiddy (Water Efficient)	1	set		
	Water Closet, Tank Type, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single-Way, Stainless	2	piece		
	Angle Valve, Two-Way, Stainless	1	piece		
	Flexible Hose, Stainless	2	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	2	roll		
	Waste Cloth	1	kg		
				Materials Cost V	₽
				Labor Cost V	
				Direct Cost V	₽
VI	ELECTRICAL WORKS				
	Lighting and Power System				
	Roughing-ins				
	3/8" Rectangular PVC Moulding	30	piece	₽	₽
	Fittings & Accessories				
	4" x 2" metal utility box	5	piece		
	PVC Amco Box	5	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Wires and Cables				
	3.5mm² THHN Wire	1	roll		
	Devices and Fixtures				
	T8, 18w LED Tube light	8	piece		
	18W LED bulb	2	piece		
	Wiring Devices				
	Outlet with Gounding , One-gang for Proposed Ceiling Fan	1	piece		
	Outlet with Gounding , Two-gang	1	piece		
	Switch w/ plate & cover, Two pole	1	piece		
	Switch w/ plate & cover, Single pole	2	piece		
	Ceiling Orbit Fan with Selector Switch	5	set		
	Panel Board				
	Enclosure				
	ST4-620, 400x600x200, NEMA 1	1	assy		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	General Purpose Construction Adhesive	2	tube		
	All around Sealant	2	tube		
	Electrical Tape	2	roll		
	GI Tie Wire, Ga. 16 (for wire/cable pulling)	1	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	2	roll		
	Rubber Tape	2	roll		
				Materials Cost VI	₱
				Labor Cost VI	
				Direct Cost VI	₱

SUMMARY

ITEM NO	WORK DESCRIPTION AND SCO	TOTAL COST	
 V V	GENERAL REQUIREMENTS SITE WORKS CIVIL/STRUCTURAL WORKS ARCHITECTURAL WORKS PLUMBING/SANITARY WORKS ELECTRICAL WORKS		₽
NOT			
""	- -	TOTAL DIRECT COST	₽
•	Strictly enforce health protocols relative to the latest applicable DPWH memorandum	Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM)	
		Profit VAT	
		TOTAL ESTIMATED COST	₽

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT: PROPOSED REHABILITATION OF T. S. CRUZ DAY CARE CENTER

LOCATION: BARANGAY SAN AGUSTIN, DISTRICT 5, QUEZON CITY

PROJECT NO.: 22 - 00007

SCOPE OF WORK:

- I General Requirements include billboard, clearing, hauling and disposal of construction materials and debris, temporary enclosure, construction safety & health and scaffolding.
- II Site Works include removal works and cleaning/clearing for painting preparation.
- III Civil Works include masonry works, metal works and roofing works.
- IV Architectural Works include floor finishes, wall finishes, ceiling works, painting works, installation of doors, windows, fabricated materials and logos and letterings.
- V Sanitary / Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
- VI Electrical Works include installation of roughing-ins, wirings, devices and fixtures.
- VII Mechanical Works include installation of roughing-ins, equipment and accessories.
- VIII 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
ı	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	58	sq.m.		
	Temporary Enclosure Around the Construction Area (H=2.4m)	10	l.m.		
				DIRECT COST I	P
II	SITE WORKS				
	Removal Works				
	Removal of Dilapidated Ceiling	46	sq.m.	₽	₽
	Removal of Dilapidated Door	3	set		
	Removal of Dilapidated Window	31	sq.m.		
	Removal of Fence	3	sq.m.		
	Removal of Lavatory	2	unit		
	Removal of Roof	5	sq.m.		
	Removal of Stainless Steel Signage	44	set		
	Removal of Tiles	96	sq.m.		
	Removal of Water Closet	2	unit		
	Chipping for Electrical Works	3	sq.m.		
	Chipping of Wall for Proposed Door	2	sq.m.		
	Clearing and Cleaning for Painting Preparation	547	sq.m.		
				DIRECT COST II	₽
Ш	CIVIL / STRUCTURAL WORKS				
	Masonry Works				
	150mm CHB Wall Laying, including Mortar, Reinforcing and Two-Face Plastering	7	sq.m.	₽	₽

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Metal Works				
	Roof Framing				
	38mm x 38mm x 6mm Angle Bar	73	kg		
	50mm x 100mm x 2mm C-Purlin	30	kg		
	Fence				
	50mm x 75mm x 4mm Tubular Bar	31	kg		
	25mm x 25mm x 2mm Tubular Bar	14	kg		
	G.I. Sheet Ga. 18	18	kg		
	Window Grilles				
	25mm x 25mm x 2mm Tubular Bar	804	kg		
	Miscellaneous & Consumables				
	7mmØ x 75mm Expansion Bolt	12	piece		
	Acetylene Tank (Refill)	1	tank		
	Cut Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	2	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	6	sq.m.		
	Pre-Painted G.I. Flashing	10	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	7	l.m.		
	Silicon Sealant	5	tube		
	Tekscrew	27	piece		
	Blind Rivets	46	piece		
				MATERIAL COST III	₽
				LABOR COST III	
				DIRECT COST III	₱
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping for Preparation of Tile Works	85	sq.m.	₱	₽
	600mm x 600mm Non-Skid Homogeneous Tiles	82	sq.m.		
	400mm x 400mm Non-Skid Homogeneous Tiles	4	sq.m.		
	Wall Finishes and Partition				
	400mm x 400mm Homogeneous Tiles	8	sq.m.		
	Framing	11	sq.m.		
	Ceiling Works				
	6mm thk Fiber Cement Board including Metal Framing	48	sq.m.		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Installation of Doors				
	D1 - (1.10m x 2.10m) Two-Leaf Panel Door	1	set	₱	₱
	D2 - (0.80m x 2.10m) Flush Door	1	set		
	D3 - (0.60m x 2.10m) PVC Door with Louver	2	set		
	Door jamb				
	D1 - (1.10m x 2.10m) Two-Leaf Panel Door	1	set		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	D2 - (0.80m x 2.10m) Swing Type Flush Door	1	set		
	Hardware accessories				
	Door Hinges, Heavy Duty Stainless	15	set		
	Door Knob, Lever Type, Stainless	5	set		
	Installation of Windows				
	W1 - (1.20m x 1.20m) 6mm Thk Clear Tempered Glass on White Color Powder Coated Aluminum Frames, Sliding Window	6	set		
	W2 - (2.40m x 1.20m) 6mm Thk Clear Tempered Glass on White Color Powder Coated Aluminum Frames, Sliding Window	4	set		
	W3 - (0.60m x 0.60m) 6mm Thk Clear Tempered Glass on White Color Powder Coated Aluminum Frames, Awning Window	2	set		
	W4 - (1.10m x 1.00m) 6mm Thk Clear Tempered Glass on White Color Powder Coated Aluminum Frames, Sliding Window	2	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Elastomeric Paint (Exterior Wall)	95	sq.m.	₽	₽
	Epoxy Enamel Paint Finish (Steel Members)	155	sq.m.		
	Flat Latex Paint Finish				
	Interior Wall	297	sq.m.		
	Ceiling	48	sq.m.		
	Fabricated Materials				
	Book Shelf	3	sq.m.		
	Hanging Cabinet	3	sq.m.		
	Kiddy Countertop	2	l.m.		
	Standard Countertop	4	l.m.		
	Logos and Letterings				
	Stainless Steel Signage (200mm x 200mm) "T.S. CRUZ DAY CARE AND LIVELIHOOD CENTER"	34	set		
	Quezon City Logo	1	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
					_
				MATERIAL COST IV	₱
				LABOR COST IV	
				DIRECT COST IV	P
V	SANITARY / PLUMBING WORKS		1		
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	2	piece	P	₽
	75 mm Ø, PVC Pipe with Hub	6	piece		
	100 mm Ø, PVC Pipe with Hub	4	piece		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	50mm Ø, P-Trap	5	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	22	piece		
	75mm Ø, 1/8 Bend	7	piece		
	100mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/4 Bend	6	piece		
	75mm Ø x 75mm Ø, Tee	6	piece		
	100mm Ø x 75mm Ø, Tee	6	piece		
	100mm Ø x 50mm Ø, Wye	7	piece		
	100mm Ø x 75mm Ø, Wye	3	piece		
	100mm Ø x 100mm Ø, Wye	3	piece		
	100mm Ø, Cleanout with Adapter	4	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	4	piece		
	20mm Ø, Elbow	19	piece		
	20mm Ø, Coupling	4	piece		
	20mm Ø, Tee Equal	1	piece		
	20mm Ø, Female Threaded, Tee	11	piece		
	20mm Ø, Female Adapter	2	piece		
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	2	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	2	set		
	Floor Drain, 100mm x 100mm, Stainless	4	set		
	Grease Trap, 5GPM, Stainless	2	set		
	Hose Bibb, Lever-Type, Stainless, Heavy Duty (Water Efficient)	6	set		
	Kitchen Faucet Lever Type, Stainless (Water Efficient)	2	set		
	Kitchen Sink, Single Tub, Stainless	2	set		
	Lavatory, Wall Hung	1	set		
	Lavatory, Wall Hung, Kiddy	1	set		
	Lavatory Faucet Lever Type, Stainless (Water Efficient)	2	set		
	Water Closet, Tank Type w/ Accessories (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless	4	piece		
	Angle Valve, Two Way, Stainless	2	piece		
	Flexible Hose, Stainless	6	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All-Around Sealant	2	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	3	roll		
	Waste Cloth	1	kg		
				MATERIAL COST V	₽
				LABOR COST V	
				DIRECT COST V	₽

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
VI	ELECTRICAL WORKS				
	Lighting and Power System				
	Roughing-ins				
	20mmØ PVC Pipe	5	piece	₱	₱
	50mm x 100mm Metal Utility Box	1	piece		
	100mm x 100mm Metal Junction Box with Cover	2	piece		
	20mmØ PVC Adaptor	10	piece		
	20mmØ PVC Locknut and Bushing	10	pair		
	Wires and Cables				
	3.5mm² THHN Wire	16	l.m.		
	2.0mm² TW Wire (Green)	8	l.m.		
	Lighting Fixture (Energy Efficient)				
	14w LED Light Bulb	8	piece		
	100mmØ Plastic Receptacle	8	piece		
	1x18w LED T8 Tube Light, Box Type	1	unit		
	1 x 18w LED,600mmx1200mm Troffer Fixture, Surface Mounted	16	unit		
	Wiring Devices				
	Orbit Fan with Selector Switch	4	unit		
	Outlet with Grounding , One-Gang, for ACU, Heavy Duty	1	piece		
	Outlet with Grounding , Two-Gang	6	piece		
	Switch with Plate and Cover, One-Gang	5	piece		
	Switch with Plate and Cover, Two-Gang	2	piece		
	Switch with Plate and Cover, Three-Gang	2	piece		
	Switch with Plate and Cover, Three-Way	1	piece		
	Switch, Three-way	1	piece		
	Pipe Hangers & Supports		-		
	Horizontal Layout of Pipe	10	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	3	can		
	Electrical Tape	10	piece		
	GI Tie Wire, Ga. 16 (for Wire/Cable Pulling)	2	kg		
	Hacksaw Blade	5	piece		
	Masking Tape	10	piece		
				MATERIAL COST VI	₱
				LABOR COST VI	
				DIRECT COST VI	₱
VII	MECHANICAL WORKS				
	Airconditioning System				
	Condensate Water Drainage System				
	Roughing-Ins				
	20mm Ø X 3m uPVC Pipe	1	piece	₽	₽
	20mm Ø uPVC Elbow	3	piece		
	Insulation		-		
	20mmØ x 12mm thick Rubber Foam Insulation	3	l.m.		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₱

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Equipment and Accessories				
	Window-type Air Conditioning Unit				
	WAC 1 - Window-type Airconditioner 2.5 hp, 2.0 TR, 600cfm,2660W, 230/1/60	1	unit	₽	₽
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Pipe Hangers and Supports				
	Condensate Water Drainage System Support	3	l.m.	₱	₽
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Teflon Tape	1	roll		
	Waste Cloth	3	kg		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				MATERIAL COST VII	₱
				LABOR COST VII	
				DIRECT COST VII	₽

SUMMARY

ITEM NO.	WORK DESCRIPTIO	TOTAL COST	
 > > >	GENERAL REQUIREMENTS SITE WORKS CIVIL / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS ELECTRICAL WORKS MECHANICAL WORKS		P 74,704.00 62,240.00 111,811.05 967,721.84 93,552.30 66,170.25 44,802.50
	: r enforce Health Protocols relative to the applicable DPWH Memorandum	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit VAT TOTAL ESTIMATED COST	213,150.29 142,100.19 88,812.62

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Leg	al Do	<u>cuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and 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;
	(c)	and 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).
Tec	chnica	l 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;
	(i)	 <u>and</u> registration for the type and cost of the contract to be bid; <u>and</u> Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	or Original copy of Notarized Bid Securing Declaration; and 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

see attached prescribed form required by the QC - BAC for Infrastructure and Consultancy); and Original duly signed Omnibus Sworn Statement (OSS); \sqcap (k) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. Additional Technical Requirements: Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement • Affidavit of Undertaking for Key Personnel and Equipment (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy) ■ • Equipment Utilization Schedule Manpower Schedule Construction Schedule and S-Curve □ • PERT-CMP ☐ • Construction Methods Financial Documents (1) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and The prospective bidder's computation of Net Financial Contracting Capacity П (m) (NFCC) (please see attached prescribed form required by the QC – BAC for *Infrastructure and Consultancy*). Class "B" Documents If applicable, duly signed joint venture agreement (JVA) in accordance with \square (n) 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 Original of duly signed Bid Prices in the Bill of Quantities; and П (p) (q) Duly accomplished Detailed Estimates Form, including a summary shee

lessor/vendor for the duration of the project, as the case may be (please

rentals used in coming up with the Bid; and

Cash Flow by Quarter.

(r)

indicating the unit prices of construction materials, labor rates, and equipmen

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date : Project Identification No. :	

To: [name and address of Procuring Entity]

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

- We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs:
- 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;
- We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

currently based on GPPB Resolution No. 09-2020

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

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

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

- I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - 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
 - 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;
 - Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.
- 11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

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

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

[Jurat]

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

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

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

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

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)	
) 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:

- I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/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.
- 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;
- 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:
 - 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
 - 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]

NAME OF CONTRACTOR:	

PROJECT TIFLE		9220-22292	100000000000000000000000000000000000000	CONTRACTOR'S ROLE TOTAL DATE OF		TOTAL	PERCE	NTAGE			
[Name of the Contract B. EXACT PROJECT LOCATION	DATE OF CONTRACT	DURATION	DURATION POSTAL ADDRESS NATURE OF WORK	INTERNET IN A 1/2 and PERCENTAGE OF	VALUE AT AWARD	COMPLETION of ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPUSHMENT	VALUE OF DUTSTANDING WORKS (IN PHP)	
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page of

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

OF CONTRACT (Php)

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page___of___

NAME OF CONTRACTOR: PROJECT TITLE:

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

	- 6	
Page	454	
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LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:	0-2		
DDO ISCT TITLE			
PROJECT TITLE:			

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

Page		
1 one	OI.	

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.

Page	of	
F HELD	174	

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:				
	CURRENT ASSETS*		PHP	
	(LESS) CURRENT LIABILITIES*	(LESS)	РНР	
	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		РНР	
			-	

NOTES:

- CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.
- ** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

)	S. S.					
			AFFI	DAVIT OF	UNDI	ERTA	KING		
2012/2013	1,			of	legal	age,	Filipino,	[OFFICER	OF
REPR	ESENTA	TIVE)					1000 F2 10 10 F2	1200	
with c	office add	ress at							after
having	been du	ly sworn	to in accord	ance with law,	hereby	volum	atary depose ar	nd state:	
	That I a	am duly aking as	authorized i evidenced by	epresentative Secretary's C	of the ertifica	[Nam te and	e of Bidder Board Resolut	to execut	e this
	That _	[Name	of Bidder	_bidding for	he (Na	me of I	Project)		
	that the	equipm	ent to be use	tioned Project and the key pe project until it	ersonne	l to be	assign shall ex	_hereby undertal clusively be used	ke and
	That I a	m execut	ing this affic	lavit to attest technical require	o the tri	uth of t	the foregoing a public bidding	and in compliance g of the said proje	ect.
of	IN WE	INESS 1	HEREOF, I	have hereum	o sign	ed my	y name belov	w this	day
	AFFIAN	T FURT	HER SAYET	H NAUGHT.					
					-		Affiant		
	SUBSC	RIBED A	ND SWOR	N TO BEFORE	ME th	is	day of		77
		in					-		
affiant	exhibit	ing to	me his/h on	er				issued	at
Doc. No									
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Notary Public

