PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

Project number:

21-00101

Sixth Edition July 2020

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC - Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



REPUBLIC OF THE PHILIPPINES QUEZON CITY GOVERNMENT DE AND AWARDS COMMITTEE FOR INFRASTRACE



BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE & CONSULTANCY

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

July 21, 2021

Invitation to Bid

No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Bui	ldings – S	mall B					
1	21- 00092	Proposed Rehabilitation of Barangay Hall (Existing BPSO Headquarters and Emergency Response Unit)	Sta. Teresita	1,117,410.72	60	City Engineering Department	Engineering Department
2	21- 00093	Proposed Rehabilitation of Yakap Day Care Center	Sta. Teresita	1,468,392.59	90	City Engineering Department	Engineering Department
3	21- 00094	Proposed Rehabilitation of GM Eugene Torre Chess Center at Ramon Magsaysay High School	Pinagkais ahan	1,813,957.17	60	City Engineering Department	Special Education Fund
4	21- 00095	Proposed Rehabilitation of Third Floor at Senior Citizen Day Care Center & Multi-Purpose Building	Project 6	1,891,103.10	60	City Engineering Department	OCM-20% Community Development Fund
5	21- 00096	Proposed Rehabilitation of Quezon City Reception House	Mariana	2,525,980.12	120	City Engineering Department	Engineering Department
6	21- 00097	Proposed Rehabilitation of Existing Two storey BPSO and CCTV Headquarters	Bagong Pag-Asa	3,578,462.02	120	City Engineering Department	Engineering Department
7	21- 00098	Proposed Improvement of Covered Court and Stage at Mines Street	Vasra	4,666,130.52	120	City Engineering Department	Engineering Department
8	21- 00099	Proposed Rehabilitation of Electrical System at Ramon Magsaysay Elementary School	Lourdes	5,982,402.44	120	City Engineering Department	Special Education Fund
9	21- 00100	Proposed Rehabilitation of Multi-Purpose Hall (Existing Senior Citizen Hall)	Sta. Teresita	6,088,604.22	150	City Engineering Department	OCM-20% Community Development Fund
10	21- 00101	Proposed Construction of Multi-Purpose Hall At Calamba Extension	Talayan	6,392,747.46	180	City Engineering Department	OCM-20% Community Development Fund
11	21- 00102	Proposed Construction of Multi-Purpose Hall at Block 503	Talayan	6,414,882.58	180	City Engineering Department	OCM-20% Community Development Fund
12	21- 00103	Proposed Upgrading of Service Entrance at Bagong Pag-Asa Elementary School	Bagong Pag-Asa	10,682,642.82	120	City Engineering Department	Special Education Fund

13	21- 00041C	Proposed Construction of Vending Site at Mangga Street	Katipunan	2,077,798.42	60	City Engineering Department	Engineering Department
Bui	ildings – N	<u> Medium A</u>					
14	21- 00104	Proposed Construction of five storey with Deck Evacuation Center	Bagong Silangan	148,944,773.03	420	City Engineering Department	OCM-20% Community Development Fund
Ro	ads – Sma	<u>II B</u>					
1 5	21- 00105	Proposed Rehabilitation of Road and Drainage of C. Aguinaldo Extension	Marilag	1,062,601.31	45	City Engineering Department	OCM-20% Community Development Fund
16	21- 00106	Proposed Rehabilitation (Surface Improvement) of Caroline Street	Baesa	1,174,325.75	15	City Engineering Department	OCM-20% Community Development Fund
17	21- 00107	Proposed Rehabilitation (Surface Improvement) of Isidora Street (Left and Right)	Holy Spirit	3,331,671.40	30	City Engineering Department	OCM-20% Community Development Fund
18	21- 00108	Proposed Rehabilitation of Road and Drainage at Nagkakaisang Molave HOA	Payatas	3,602,653.30	90	City Engineering Department	OCM-20% Community Development Fund
19	21- 00109	Proposed Land Development of Housing Unit No. 13	Bagbag	4,309,654.20	90	City Engineering Department	Housing Community Development & Resettlement Dept. (HCDRD)
20	21- 00110	Proposed Rehabilitation of Road and Drainage at Kawayan Street	Tandang Sora	6,012,862.02	120	City Engineering Department	OCM-20% Community Development Fund
21	21- 00111	Proposed Rehabilitation of (Surface Improvement) of Mendez Road	Baesa	7,671,792.69	55	City Engineering Department	OCM-20% Community Development Fund
22	21- 00112	Proposed Rehabilitation of Road and Drainage at Misty Street, Broadway Street and Northwind Avenue	Nagkaisan g Nayon	21,956,431.11	180	City Engineering Department	OCM-20% Community Development Fund
23	21- 00021B	Proposed Rehabilitation (Surface Improvement) of Road 3	Project 6	11,234,728.41	65	City Engineering Department	OCM-20% Community Development Fund
24	21- 00081B	Proposed Total Rehabilitation of the Plumbing Utilities of the Legislative Building	Central	8,257,301.33	150	City Engineering Department	Engineering Department

1. The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract for the above stated Projects. Bids received in excess of the ABC shall be automatically rejected at bid opening.

- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using 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 22 July 2021 (Thursday) from given address and website/s below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

STANDARD RATES:

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

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

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

Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133

Password: 273320

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

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before accepted.

 August 16, 2021 9:00AM. Late bids shall not be accepted.
- 8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
- 9. Bid opening shall be on August 16, 2021 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:

For downloading of Bidding

Documents:

https://quezoncity.gov.ph/public-

By:

notices/procurement/

ATTY. MARK DALE DIAMOND P. PERRAL

Chairman, BAC-Infra and Consultancy

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION, with Project Identification Number 21-00101.

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

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

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2021 in the amount of Six Million Three Hundred Ninety-Two Thousand Seven Hundred Forty-Seven Pesos & 46/100 Ctvs. (P 6,392,747.46).
- 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 August 2, 2021, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC

shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause			
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.		
7.1	Subcontracting is not allowed.		
10.3	No additional contractor lic	ense or permit is require	d
	In addition, eligible bidders	shall qualify or comply	with the following:
	1. Bidders with valid Philipp	oine Contractors Accredi	tation Board (PCAB)
	Туре		
	Buildings - Small B		
10.4	The minimum work expe following:	rience requirements for	r key personnel are the
	Qnty. Key Personnel	General Experience	Relevant Experience
	1 Project Engineer	3 years	3 years
	1 DPWH duly accredit Materials Engineer	ted 3 years	3 years
	1 Safety Officer	3 years	3 years
	1 Foreman	3 years	3 years
	15 Skilled Worker	3 years	3 years
	1 Driver	3 years	3 years
	30 Laborer/Helper	1 year	3 months
	In addition, the bidder n notarized stating that the fo for the project until its com	regoing personnel shall	perform work exclusively
10.5	The minimum major equipment requirements are the following:		
	Equipment	Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools		1 As needed As needed As needed
	In addition, the bidder n	iust execute an affida	vit of undertaking duly

	notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.
12	[Insert Value Engineering clause if allowed.]
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:
	a) The amount of not less than Php 127,854.95 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
	b) The amount of not less than Php 319,637.37 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required: 1. Construction Schedule and S-curve, 2. Manpower Schedule, 3. Construction Methods, 4. Equipment Utilization Schedule, 5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
 - 3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 180 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation reports.]
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is 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



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

PROJECT TITLE:

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA

EXTENSION

LOCATION:

BARANGAY TALAYAN, DISTRICT 1, QUEZON CITY

TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

I. GENERAL REQUIREMENTS

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

j. Temporary Facilities and Utilities

- All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
- Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- vi. Upon completion of the work, the temporary facilities shall be demolished, hauledout 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 area of at least 2 square meters.
 - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
 - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / demolition of existing structures shall be done in accordance to safety procedures.
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

a. Delivery, Storage, and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.

b. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

c. Materials

- i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C 150).
- ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be 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 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.
- iii. Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

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

f. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary wire 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, oil grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

g. Conveying and Placing Concrete:

- 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 compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- v. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

h. Curing

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

i. Finishing

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

ii. Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. MASONRY

- a. Masonry Units (CHB):
 - 100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.
 - Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
 - iii. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

b. Sand:

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

c. Mortar:

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

d. Plaster bond:

Apply plaster bond to all wall area.

C. 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. PAINTING WORKS

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- 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.
- f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Supply, installation and testing of the following:
 - B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
 - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
 - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
 - B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or

- distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing 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 isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEL7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

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

F. PANELBOARDS

- F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - F.2.1 Rated for environmental conditions at installed location.
 - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - ii. Outdoor Locations: NEMA 250, Type 3R.
 - Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
 - F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
 - F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
 - F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

F.2.6 Finishes:

- Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
- ii. Back Boxes: Galvanized steel Same finish as panels and trim.
- iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.

- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
 - F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
 - F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
 - F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

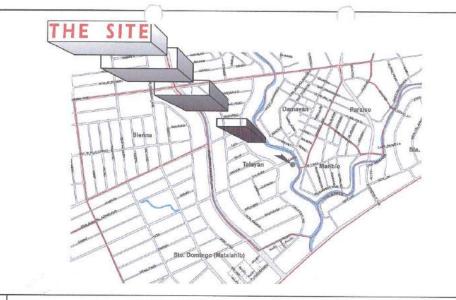
VII. MECHANICAL WORKS

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

Alessandro Nelio B. Gesmundo Planning and Programming Division Mariler F. Com endador Planning and Programming Division

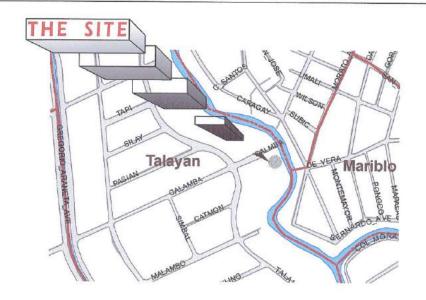
Section VII. Drawings

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



VICINITY MAP

NOT TO SCALE



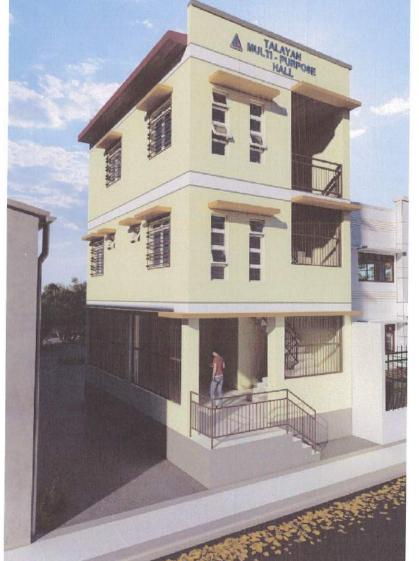


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LOCATION MAP

NOT TO SCALE

PERSPECTIVE

NOT TO SCALE

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE:

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA **EXTENSION**

LOCATION: BARANGAY TALAYAN ,DISTRICT 1, QUEZON CITY

DATE: June 25, 2021 CHECKED BY: MPC

REVISION NO.:

DRAWNBY: DESCRIPTION SUBMITTED BY:

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

ENGR. ISAGANI R. VERZOSA, JR. OIC, CITE-ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

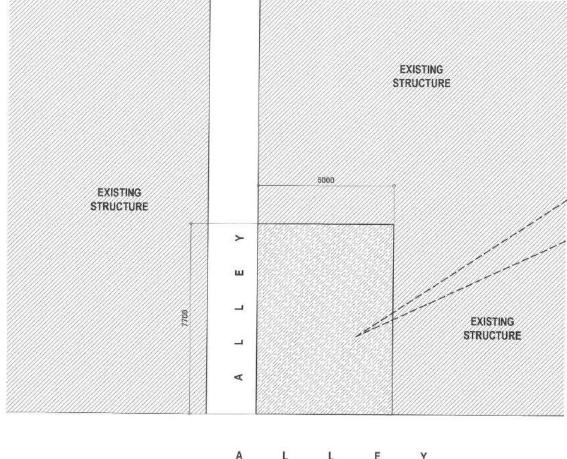
HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

VICINITY MAP, LOCATION MAP, PERSPECTIVE

SHEET CONTENT

AR-01





EXISTING STRUCTURE FOR DEMOLITION

SITE DEVELOPMENT PLAN

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA **EXTENSION** LOCATION: BARANGAY TALAYAN ,DISTRICT 1, QUEZON CITY

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HEAD, PLANNING BY PROGRAMMING DIVISION

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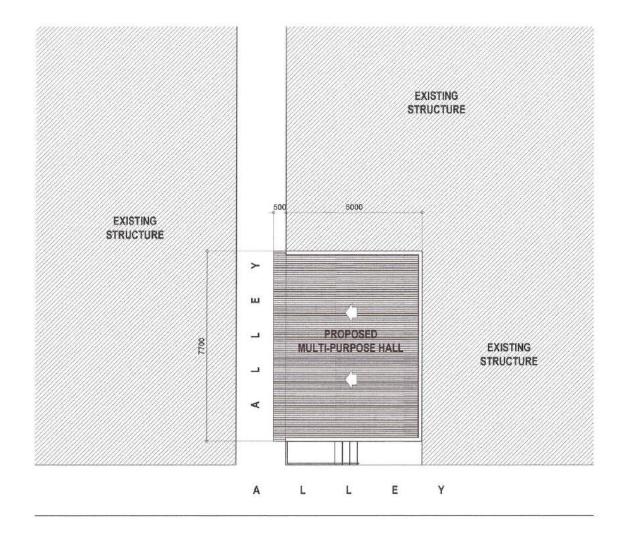
RECOMMENDING APPROVAL:

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

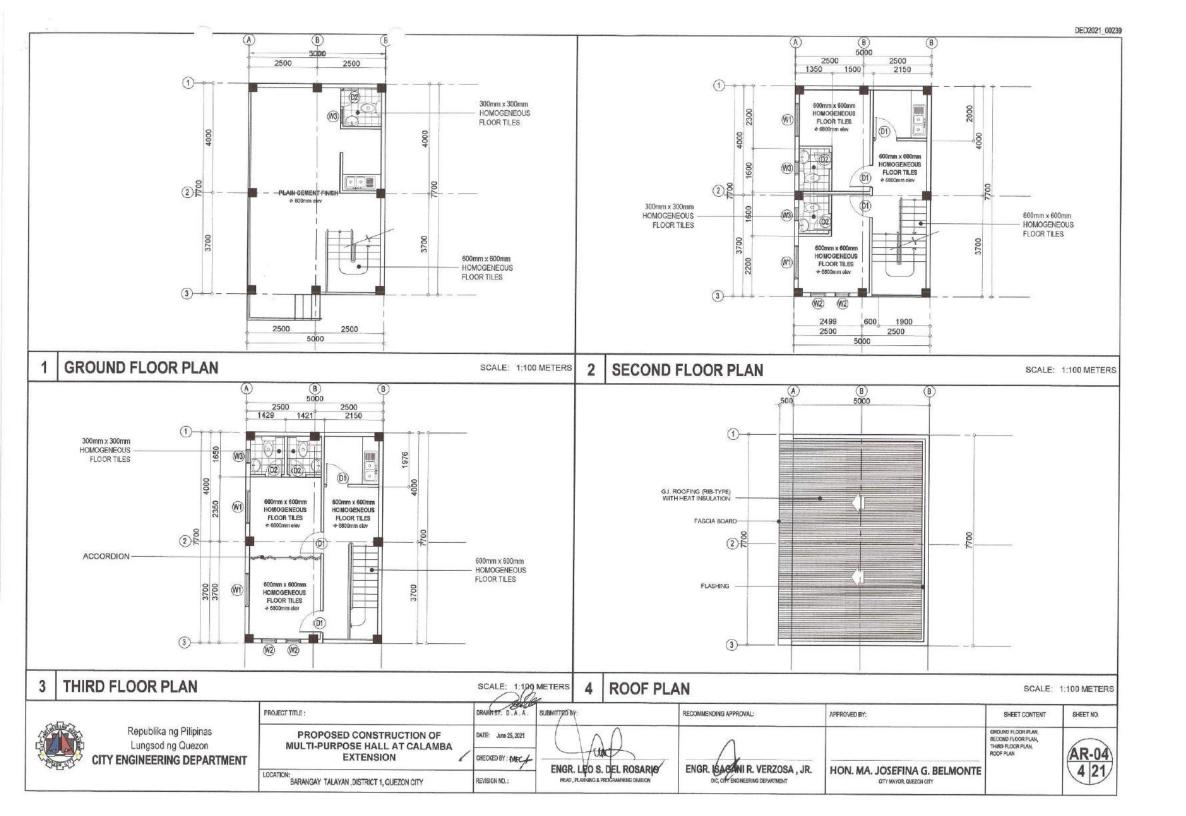
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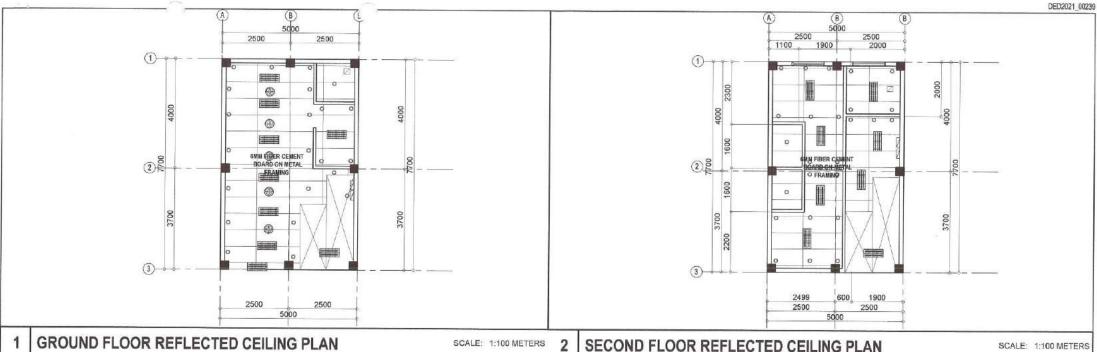
SITE DEVELOPMENT PLAN

SHEET CONTENT









3 THIRD FLOOR REFLECTED CEILING PLAN

SCALE: 1:100 METERS



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE:

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BARANGAY TALAYAN, DISTRICT 1, QUEZON CITY

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HE/O. PLANING A PROGRAMING ENGR

ENGR/ISACIANI R. VERZOSA , JR.

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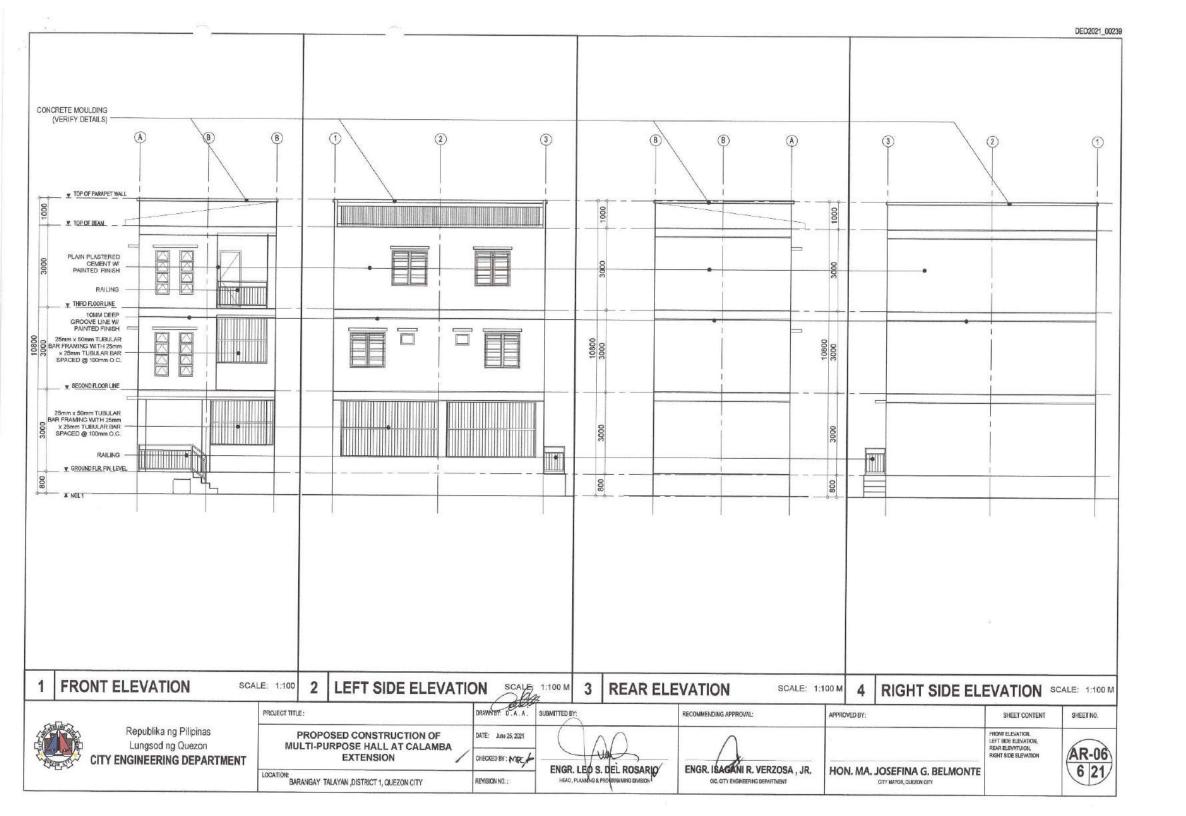
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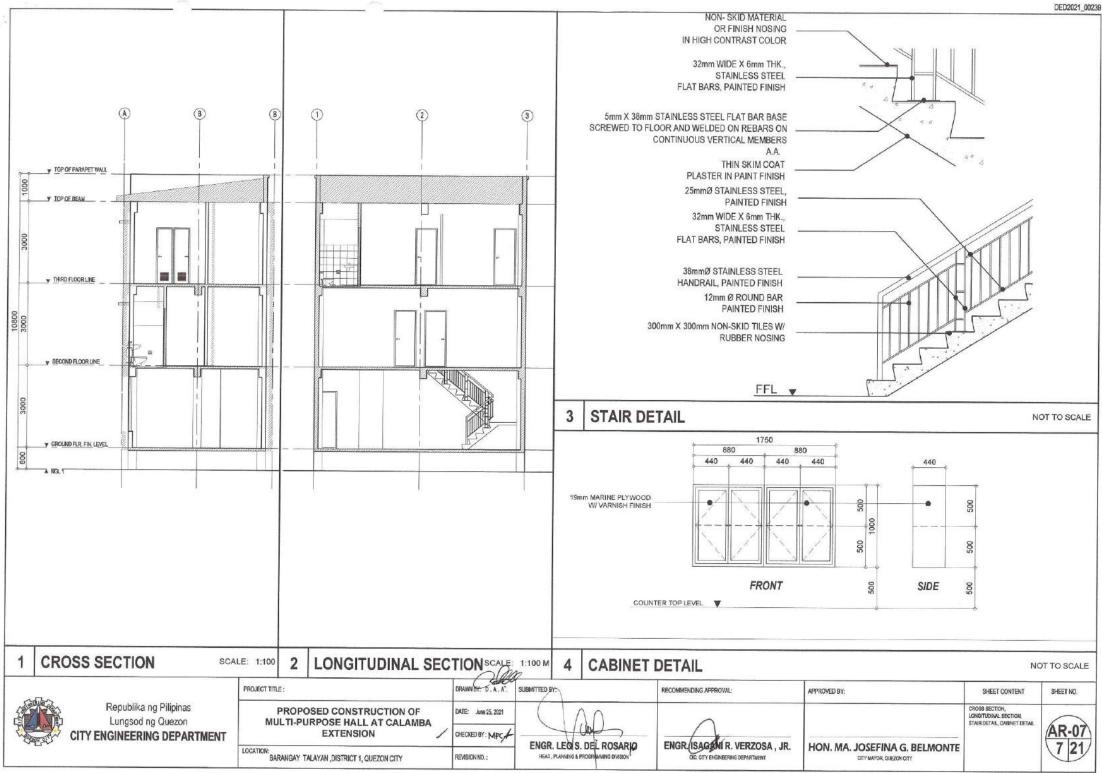
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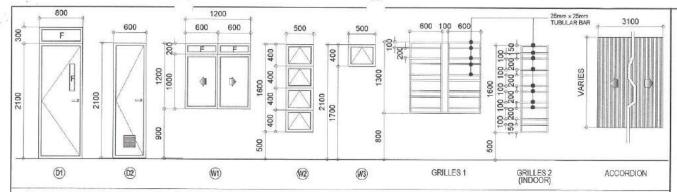
GROUND FLOOR REFLECTED
CEILING PLAN,
SECOND FLOOR REFLECTED
CELING PLAN,
THEND FLOOR REFLECTED
CELING PLAN,

SHEET CONTENT

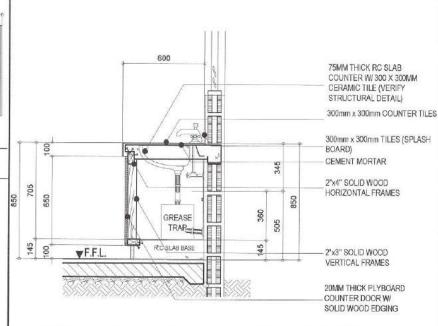
AR-05 5 21







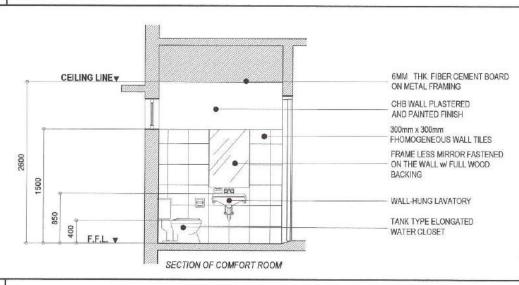
MARK	# OF UNITS	DESCRIPTION	REMARKS
(D1)	6 - SETS	PANEL DOOR WITH VIEW AND TRANSOM	ANALOK FINISH
(D2)	5 - SETS	PVC TYPE DOOR WITH LOUVER	WHITE DUCCO PAINT FINISH
W	4 - SETS	ALUMINUM FRAMED FIXED WITH SLIDING WINDOW WITH 6MM THK CLEAR GLASS	ANALOK FINISH
(V2	4 - SETS	ALUMINUM FRAMED FIXED WITH AWNING WINDOW WITH 6MM THK CLEAR GLASS	ANALOK FINISH
(W3	4 - SETS	ALUMINUM FRAMED FIXED WITH AWNING WINDOW WITH 6MM THK CLEAR GLASS	ANALOK FINISH

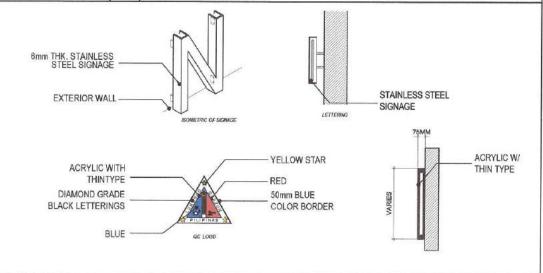


SCHEDULE OF DOORS AND WINDOWS

STANDARD COUNTER TOP DETAIL

NOT TO SCALE





APPROVED BY:

STANDARD TOILET DETAIL

LOGO AND SIGNAGE DETAIL NOT TO SCALE

NOT TO SCALE

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION LOCATION: BARANGAY TALAYAN , DISTRICT 1, QUEZON CITY

SUBMITTED BY ENGR. LEO S. DEL ROSARIO

HEAD, PLANNING & PROGRAMMING DIVISION

DATE: June 25, 2021

CHECKED BY : MFC

REVISION NO.:

ENGR. SASANI R. VERZOSA, JR. CIC, CITY ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

CITY MAYOR, QUEZON CITY

SCHEDULE OF DOORS AND WINDOWS, STANDARD COUNTER TOP DETAIL STANDARD TOILETT DETAIL, LOGOAND SIGNAGE DETAIL HON. MA. JOSEFINA G. BELMONTE

SHEET CONTENT

AR-08 8 21

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE
- 2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS

EGGATION .

STRENGTH MAX SIZE OF AGGREGATES MAX STUMP 3000 Psi (20 685 MPA)

1 in (25 mm) 4 in (100mm

8.SLAB ON GRADE. CURBS. PAVEMENTS. WALL FOOTING

6 BEAMS COLUMNS. 3000 Pei (20.685 MPA). FOOTINGS SUSPENDED SLAB

- All REINFORCING BARS SHALL CONFORM TO PNS49 GRADE 275 FOR 12MM AND SMALLER BARS AND GRADE 415 FOR 16mm AND LARGER BARS.
- INGENERAL THE LATEST EDITION OF ACMIN, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO LINLESS OTVERMES EXHOLOR ON TOTAL D. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS. CONCRETE DEPOSITED DIRECTLY AGAINST GROUND.

SUSPENDED SLABS

20mm SIAB ON GRADE 40 mm WALLS ABOVE GRADE 25 mm

- BEAMS & COLUMNS 40mm SPLICES SHALL BE SECURE, Y WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE AND ANCHORAGE LENGTH UNLESS OTHERWISE SHOWN ON DRAWINGS SPICES SHALL BE STAGGERED WIENEVER. POSSIBLE)
- ALL ANCHOR BOLTS DOWELS AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS SILLS STOCKS, EQUIPMENTS. AND MECHANICAL BASES
- THAT ARE REQUIRED BY THE ARCHITECTURAL ELECTRICAL, AND MECHANICAL DRAWINGS
- 9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP FOR SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

10. STRIPPING OF FORMS AND SHORES:
FOUNDATION24 HRS.
SUSPENDED SLAB EXCEPT WHEN
ADDITIONAL LOADS ARE IMPOSED
WALL21 DAYS
BEAMS14DAYS
COLUMNS21 DAYS

- 11. DEVELOPMENT LENGTH FOR ALL BARS SHALL BE A MINIMUM OF 50 BAR DIAMETER UNLESS OTHERWISE NOTED. STRUCTURAL STEEL AND PLATES.
- 12. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM (A-36) SPECIFICATIONS WITH MINIMUM YIELD STRENGTH, by= 250 MPa
- ANCHOR & PASTENER BOLTS. ALL BOLTS SHALL CONFORM TO ASTM (A-307) SPECIFICATIONS
 WELDING RODS. ALL WELDING RODS SHALL BE MILD STEEL ELECTRODE. LOW HYDROGEN E7016 WITH MINIMUM VIELD STRENGTH - 420 MPa

FOUNDATION

- 11. FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWARD FISCH BEARING CAPACITY 01240KPB
- 12. FOUNDATION SHALL REST ON NATURAL SOIL UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON ELL
- 13. THE CONTRACTOR SHALL NOTIFY THE ENGINEER UPON COMPLETION OF FOUNDATION EXCAVATION FOR ACTUAL SOIL CONDITIONS WHICH DO NOT CONFORM TO THE BOA BEARING CAPACITY FOR PROPER REVISION.

NOTES ON MASONRY WALLS

- 1. ALL MATERIALS WORKMANSHIP SHALL BE IN ACCORDANCE WITHE APPLICABLE STANDARD & SPECIFICATIONS OF THE STRUCTURAL CODE OF THE PHILIPPINES & UNIFORM BUILDING CODE.
- 2. MORTAR & GROUT FOR ALL CONGRETE MASONRY SHALL CONFORM TO ASTM 270 TYPE N & SHALL HAVE A
- MINIMUM OF 28 DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 17.5MPA (2500 PSI)
- 3. ALL CHB SHALL BE LAID OUT WITH CELLS IN UNOBSTRUCTED VERTICAL CONTINUITY 4 ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLED WITH MORTAR.
- REINFORCEMENT, AS TABULATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN
- 5. ALL MASONRY WALLS SHALL BE PROVIDED WISTIFFENED BEAM BLOCK & STIFFENER AS REQUIRED
- 5a. FOR HIGH WALLS LEVERY 3000MM & COLUMN (FICK T) AT 3000 mm ON CENTER
- 50. FOR DOORS A WINDOWS OPENING PROVIDE LINTEL BEAM SAME AS STEFFENER BEAM BLOCK.
- 6. UNLESS OTHERWISE SHOWN IN PLANS, ALL CONCRETE HOLLOW BLOCK AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.

	SCHEDULE OF COR	NORETE HOLLOW BLOCK AND C	ERAMIC BLOCK REINFORCEMENT
BLOCK THICKNESS	REINFORCE	MENT	NOTES
	HORIZONTAL.	VERTICAL	A MANUAL IN COLUMN CO.
			MINIMUM LAP SPLICE = 0.25m B. PROVIDE RIGHT ANGLED REINFORCEMENT AT
100 mm	10mm Ø @ 600mm O.C.	10mm Ø @ 600mm O.C.	C WHERE CHE OR CER BLK WALL DOWELS JOIN
150 mm	10mm Ø @ 600mm O.C.	10mm Ø @ 600mm O.C.	COL. R.C. BEAMS AND WALL DOWELS WITH THE
			SAME SIZE AS VERT, OR HOR, REINFORCEMENTS SHALL BE PROVIDED.

CONCRETE HOLLOW 4-612 AT 200 mm O.C. STIFFENER COLUMN





STIFFENER BEAM BLOCK

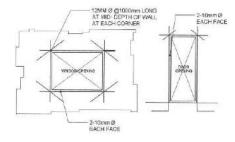


INTERSECTION WALL

CHB WALL FOR SIZE AND SPACING OF HOR, AND VERT, BARS SEE CONSTRUCTION NOTES.

INTERSECTING R.C. COL. OR WALL

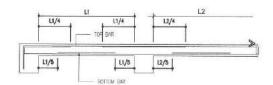
TYPICAL CONNECTION DETAIL OF MASONRY WALL



135° HOOKS 180° END HOOKS #1 L 90° HOOKS 90° END HOOKS

NOTES ON CONCRETE SLABS:

ALL SLAB REINFORCEMENTS SHALL BE 20min CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB 2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS:

- F SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF M TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS
- THAN 0.0025 x GROSS SECTIONAL AREA (Ag) OF THE SLAB (SEE SCHEDULE BELOW)

MINIMUM TEMPERATURE BARS 10mm Ø @ 250 EACH WAY 125 mm 10mm Ø @ 225 EACH WAY 10mm Ø @ 185 EACH WAY 175 mm 10mm Ø @ 150 EACH WAY

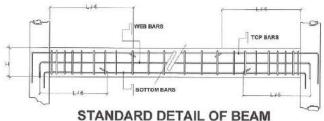
200 mm

- 10mm Ø 向 140 EACH WAY 5. UNLESS OTHERWISE NOTED IN THE PLANS, ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm Ø AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER
- 8. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm Ø STEEL CHAIR OR AFPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS.

TYPICAL EXTERIOR WINDOW AND DOOR OPENING

NOTES ON STIRRUPS

- ALL REINFORCEMENT SHALL BE BENT COLD LINLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- REINFORGEMENT PARTIALLY EMBEDED IN CONCRETE SHALL NO BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN OF PERMITTED BY THE STRUCTURAL ENGINEER
- 3. TIES AND CLOSE STIRRUPS MUST BE BENT AT 1352



TESTING & COMMISSIONING WORKS: 1. ALL NECESSARY TESTING OF MATERIALS AND COMMISSIONING WORKS MUST BE PERFORMED AS PER STANDARD PROCEDURE **GENERAL NOTES**

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA **EXTENSION**

BARANGAY TALAYAN DISTRICT 1, QUEZON CITY

SUBMITTED BY DATE: June 25, 2021 CHECKED BY: MEC

REVISION NO.:

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

ENGR. ISAGARIYR. VERZOSA . JR. OIC, CITY ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

CITY MAYOR, QUEZON CITY

ST-0

SCALE: NOT TO SCALE

SHEET CONTENT

GENERAL NOTES

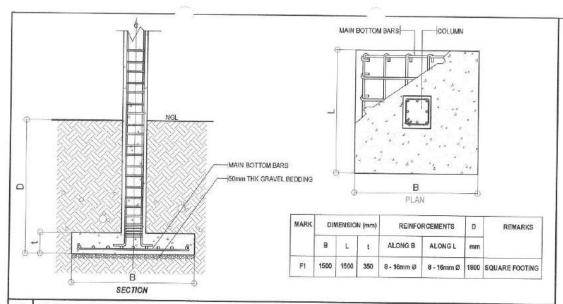
SLAB THICKNESS

PROJECT TITLE:

LOCATION

HON, MA, JOSEFINA G, BELMONTE

APPROVED BY



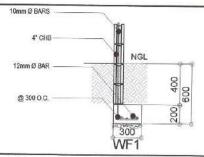
1 COLUMN FOOTING DETAIL

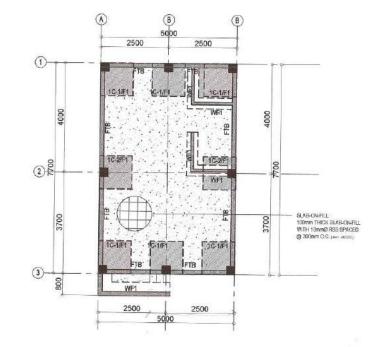
SCALE: NOT TO SCALE

		SCHEDULE OF CO	DLUMNS			
MARK	1C-1 / 2C-1	3C - 1	10-2/20-2	30 - 2		
COLUMN DIMENSIONS E _G and W _G)	300	8 300	350	8 300 300 300 S		
VERTICAL BARS	8 - 16mmØ	4 - 16mmØ	8 - 16mmØ	4 - 16mmØ		
COLUMN TIES	10mmØ@ 200mm	10mmØ @ 200mm	10mmØ @ 200mm	10mm Ø @ 200mm		
JOINT HOOPS	4 - 10 mm@ @ 100 mm	4 - 10mmØ @ 100mm	4 - 10mmØ @ 100mm	4 - 10mmØ @ 100mm		
CONF. HOOPS	2 - 10mmØ @ 50mm	2 - 10mmØ @ 50mm	2 - 10mmØ @ 50mm	2 - 10mmØ @ 50mm		
LOCATION	FOUNDATION TO 2F	3F TO ROOF BEAM	FOUNDATION TO 2F	3F TO ROOF BEAM		

2 COLUMN DETAIL

SCALE: NOT TO SCALE





3 WALL FOOTING DETAIL

SCALE: NOT TO SCALE

DRAWN BY: D. A. A. SUBMITTED BY:

FOUNDATION PLAN

SCALE: 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

LOCATION: BARANGAY TALAYAN DISTRICT 1, QUEZON CITY DATE: June 25, 2021

CHECKED BY: MFC

REVISION NO .:

ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION ENGR. ISAGANI R. VERZOSA , JR.

RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE

APPROVED BY:

COLUMN FOOTING DETAIL, COLUMN DETAIL, WALL FOOTING DETAIL, FOUNDATION PLAN

SHEET CONTENT

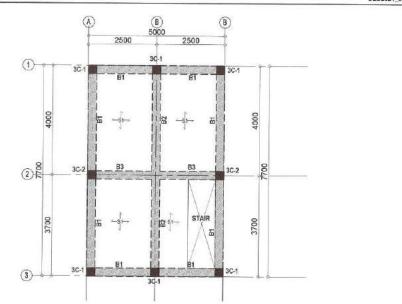
ST-02 10 21

		REINFORG	CEMENT									REMARKS
MARK t					ALONG SHORT SPAN				ALONG LONG SPAN			
		MAIN BARS	TEMP	TOP B	BARS	BOT.	BARS	TOP	BARS	BOT.	BARS	
		100000000000000000000000000000000000000	1000	4	3	1	2	4	3	1	2	TWO-WAY SLAB
S1	125	10	10	300	150	150	300	300	150	150	300	TYPO-WAT GLAD

1 SLAB DETAIL

SCALE: NOT TO SCALE

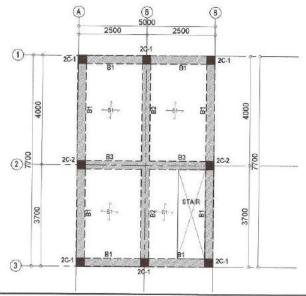
BEAM DIME					OP BARS		В	OTTOM BA	ARS	WEB BAR	STIRRUPS	
MARK	B(mm)		m) H(mm)	BAR Ø	LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	12 mmØ DSB	10mmØ DSB
FTB	250	400	16	3	2	3	2	2	2	-	2 @ 50, 4 @ 100, REST @ 200	
B1	250	350	16	4	2	4	2	4	2	-	2 @ 50, 4 @ 100, REST @ 200	
B2	250	400	16	5	3	5	3	5	3	-	2 @ 50, 4 @ 100, REST @ 200	
B3	300	450	16	5	3	5	3	5	3	-	2 @ 50, 4 @ 100, REST @ 200	
RB1	200	300	16	2	2	2	2	2	2	-	2 @ 50, 4 @ 100, REST @ 200	

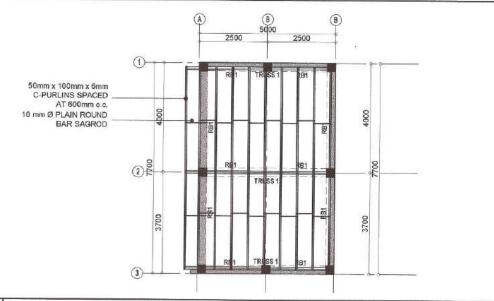


2 SCHEDULE OF BEAM

4 THIRD FLOOR FRAMING PLAN

SCALE: 1:100M





APPROVED BY:

3 SECOND FLOOR FRAMING PLAN

SCALE: NOT TO SCALE

DRAWN BY: D. A. A. SLBMITTED BY:

ROOF FRAMING PLAN

SCALE: 1:100 M SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT OJECT TITLE :

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

LOCATION: BARANGAY TALAYAN , DISTRICT 1, QUEZON CITY DATE: June 25, 2021

CHECKED BY: MFC

REVISION NO.:

ENGR. LEO S. DEL ROSARIO

ENGR. ISABANI R. VERZOSA , JR.

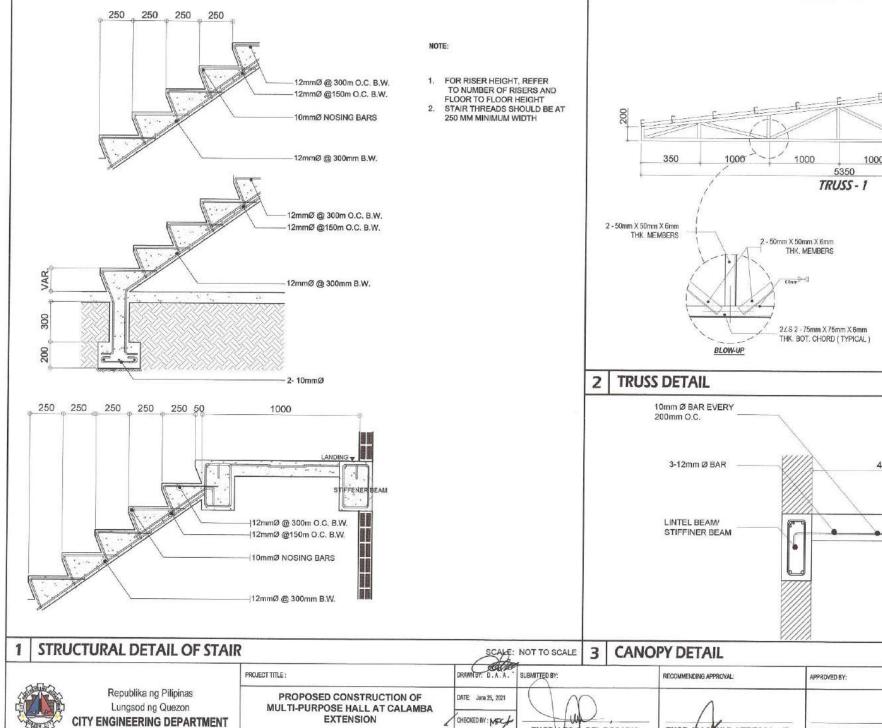
RECOMMENDING APPROVAL:

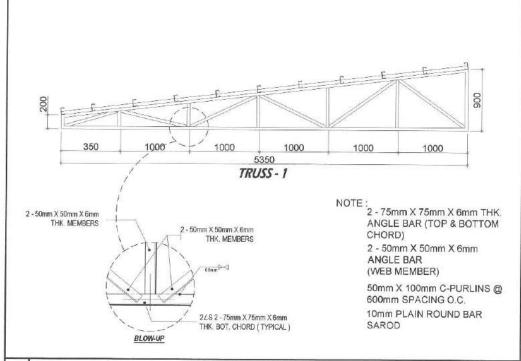
HON. MA. JOSEFINA G. BELMONTE

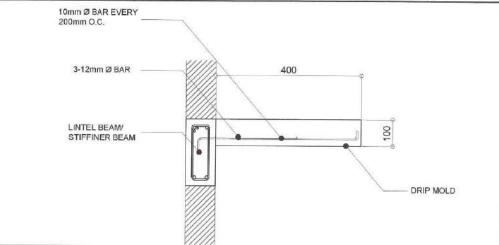
SLAB DETAIL SCHEDULE OF BEAM, SECOND FLOOR, FRAMING PLAN, THIRD FLOOR FRAMING PLAN, ROOF FRAMING PLAN

SHEET CONTENT

ST-03 11 21







All	?	1	NOT TO SCALE 3	CANC	PY DETAIL			
	PROJECT TITLE:	DRAWN BY: D.A.A.	SUBMITTED BY:		RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
Т	PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION	DATE: Jame 25, 2021 CHECKED BY: MEC		,	FUOD PLOTING UP		STRUCTURAL DETAIL OF STAIR, TRUSS DETAIL, CANOPY DETAIL,	ST-04
	LOCATION: BARANGAY TALAYAN DISTRICT 1, QUEZON CITY	REVISION NO.:	HEID, PLYNNING & PROGRA	TV.	ENGR. SAGANI R. VERZOSA, JR.	HON, MA. JOSEFINA G. BELMONTE		12 21

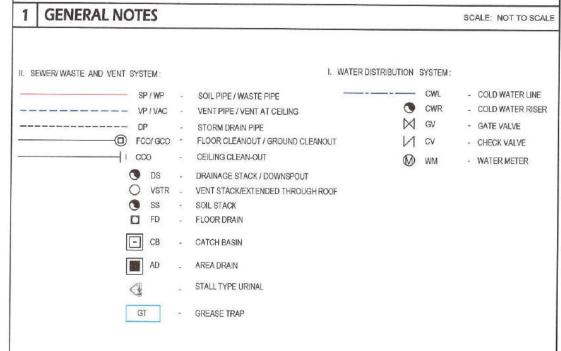
6" THK CHB SEPTIC

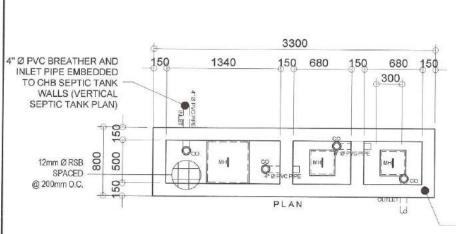
TANK WALL WITH 12mi

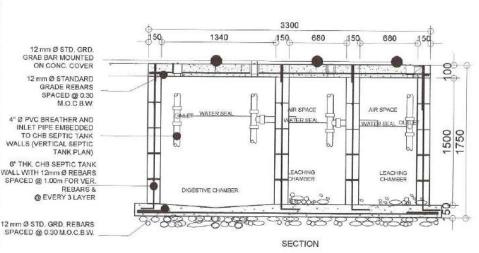
Ø REBARS SPACED @ 1.00m FOR VERTICAL REBARS @ EVERY 3

LAYER

- ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, RULES AND REGULATION OF QUEZON CITY.
- COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED THE ENGR./ ARCH SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
- PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERTIGED ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
- 5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
- SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER
 LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
- 8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHOLORINE OR HYDROCHLORIDE SOLUTION.
- ALL WATER PIPES SHALL BE 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 ENSURE THAT THE SYSTEM ARE WATER TIGHT.
- 11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
- ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.







APPROVED BY:



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

BARANGAY TALAYAN , DISTRICT 1, QUEZON CITY

ENGR. LEQ S. DEL ROSARIO

HAU. RANNING & PROGRAMMING DUSCON

SCALE: NOT TO SCALE

al

DRAWNBY: D.A.A.

DATE: June 25, 2021

CHECKED BY: JAN

REVISION NO.:

SEPTIC VAULT DETAIL

ENGR ISAGANI R. VERZOSA , JR.

RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE

CITY MAYOR, QUEZON CITY

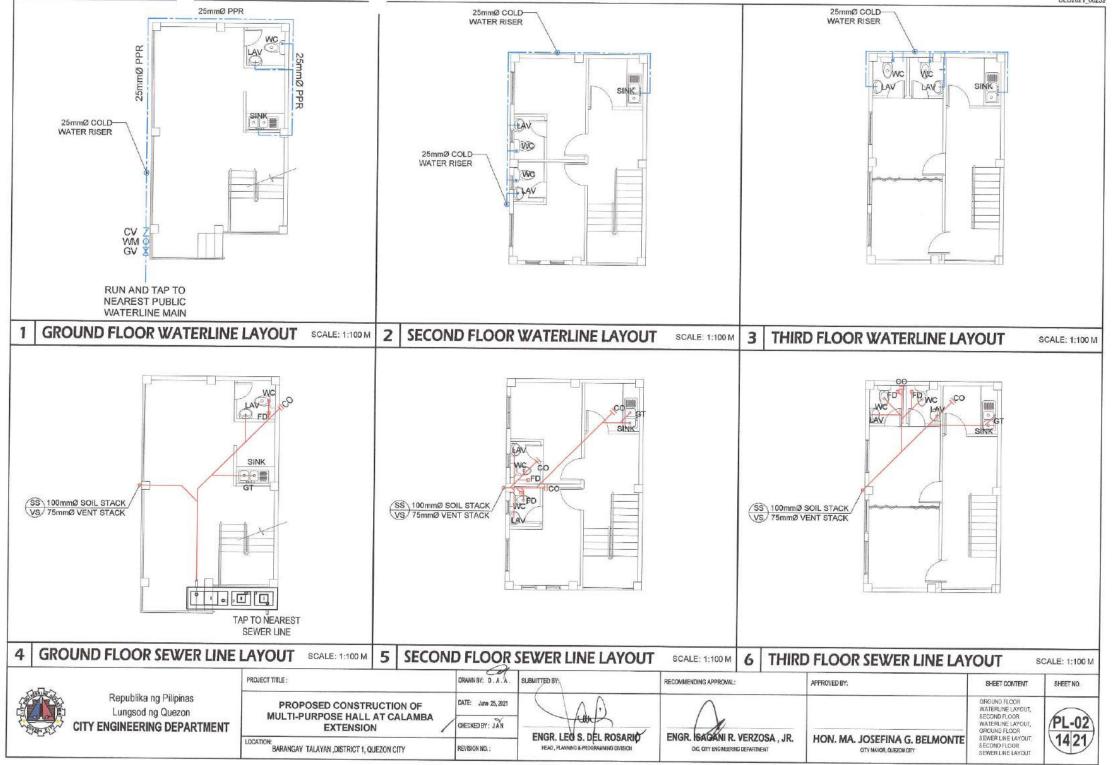
GENERAL NOTES, LEGEND AND SYMBOLS, SEPTIC VAULT DETAIL

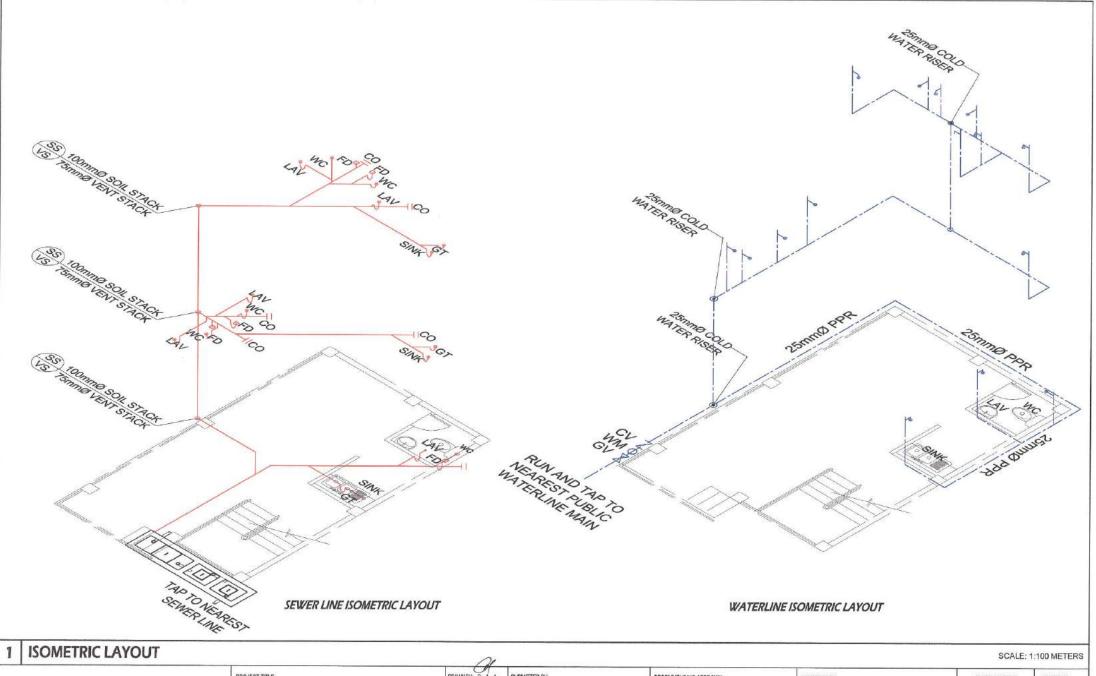
SHEET CONTENT

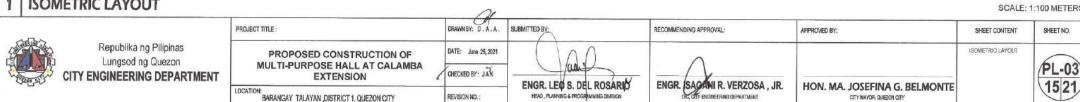
PL-01 13 21

SHEET NO.

SCALE: NOT TO SCALE







- 1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- 2. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEERS. FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- 3. ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILIMETERS
- 4. PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS. SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS-BUILT" PLAN.
- 5. ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 230 V.
- 6. PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFCI" ON THE PLAN.
- 7. ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED.
- 8. UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 MM AFF , 150MM ABOVE WORKING COUNTER.

TELEPHONE OUTLET - 300 MM AFF GATY OUTLET - 300 MM AFF LIGHTING SWITCH . 1400 MM AFE PANELBOARD - 1600 MM AFF

- 9. REFER TO MECHANICAL, PLUMBING ANF FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS
- 10. ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED.
- 11. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE/DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE/DESCRIBED ACTUAL LOCATIONS, LEVEL AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOSSITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- 12. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DECISION.
- 13. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 3.5 SQ. MM. THWN-2 COPPER WIRE UNLESS OTHERWISE NOTED MINIMUM SIZE OF WIRE SHALL, BE 3.5 SQ. MM. COPPER WIRE, ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

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

14. BOXES, WIRE, GUTTERS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS. MAXIMUM WIDTH OF THE WIDEST SURFACE STEEL

UP TO INCLUDING 152.40 MM

GA 16 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

OVER 152.40 MM BUT NOT OVER 457.30

GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

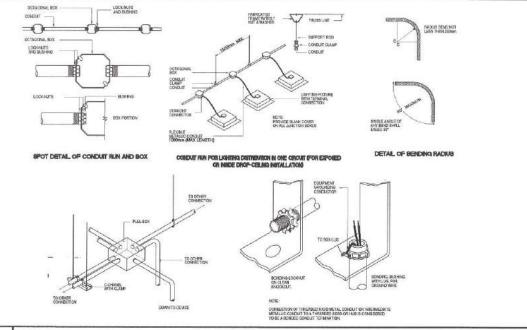
OVER 457.30 MM BUT NOT OVER 762 MM OVER 762 MM

GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

- 15. ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCAB, WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED
- 16. TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 60 HERTZ, 230V AC NOMINAL.
- 17. CONDUITS IN NO CASE SHALL THERE BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY USING HYDRAULIC BENDERS. MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- 18. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHMS

PROJECT TITLE:

LOCATION:



2 MISCELLANEOUS DETAIL

SCALE: NOT TO SCALE

	EXHAUST FAN		CIRCUIT LINE
	2X18W LED TROFFER TYPE WITH COMPLETE ACCECORIES RECESSED TYPE AND TUBE LIGHT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SWITCH LINE
0	9W ROUND RECESSED PINLIGHT	LPP-01	CIRCUIT HOMERUN
=	DUPLEX C.O	LPP	PANEL BOARD
	ORBIT FAN WITH SELECTOR SWITCH	M	KILOWATT-HOUR METER
⊠ _{ACU-1}	0.8 TR 3.77 HP AIRCON	\rightarrow	SERVICE ENTRANCE
OIS	SINGLE SWITCH	155 155	DISTRIBUTION LINE IN RACE WAY
S3Wa	THREE WAY SWITCH	Sab	TWO GANG SWITCH
	PROPOSED SERVICE ENTRANCE POLE	Sabc	THREE GANG SWITCH

APPROVED BY:

GENERAL NOTES

SCALE: NOT TO SCALE

REVISION NO.:

LEGEND AND SYMBOLS

SCALE: NOT TO SCALE

SHEET CONTENT



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

BARANGAY TALAYAN ,DISTRICT 1, QUEZON CITY

SUBMITTED BY: DATE: June 25, 2021 CHECKED BY : MIPC

ENGR. LEO S. DEL ROSARIO HEAD , PLANNING & PROGRAM WING DIVISION

ENGR. ISAGAÑ R. VERZOSA . JR. OIC, CITY ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

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

MISCELLANEOUS DETAIL LEGEND AND SYMBOLS ÆL-01

	DISTRIBUTION PANEL. ON: GROUND FLOOR	(MDP)			MOUNTING: NERMA, RECEISED WITH GRAY POWDERED COATED FIRSH WITH MULTI-TERMINAL BLOCK FOR BOI GROENG BUS				
CKT.			88-5			SIZE	OF .		
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS		
1	LPP1	230	5370	23.30	100	2-30mm* THRN COPPER WIFE 1-8.0mm* TW CROUND WIFE	IN 32mms PVC PIPE		
2	LPP2	230	5920	25.73	100	1-8 Open THEN COPPER WRE 1-8 Open TW GROUND WRE	IN 32mms PVC PIPE		
3	LPPS	230	3860	25.47	100	1-8 Ower THEN COPPER WEE	IN 32mm4 PVC PIPE		
4	PACU	2.30	20240	86.00	150	2-50mm' THHN COPPER WHE (=14.0mm' TN CRITIND WHE	IN 10mm# PVC PIPE		
			37390	162.57					
	MPUTATION : = 162.57+(0.25*22) = 168.07 AMP.		MAI	: 200AT, :	2P, 230 R.;	OTECTION: / MOULDED CASE CIRCUIT BR			

LOCAT	TON: GROUND FLOOR					GROUND HUS	MULTI TERMINAL BLOCK FOR SOL
CKT	A Paragraphy and a paragraphy of the paragraphy	CHO LOCK	1000000	108800	12779	SIZE C)F
NO	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	4 - LICHTING DEVICES	230	400	1.74	20	2-3.5mm* THHN COPPER WRE 1-3.5mm* TW GROUND WRE	IN 20mms PVC PIPE
2	4 - UGHTING DEVICES	230	400	1.74	20	2-3.5mm² THHN COPPER WAS	IN 20mms PVC PIPE
3	5 - CROIT FAN	230	550	2.39	20	2-3.5mm* THAN COPPER WIRE 1-3.5mm* TW GROUND WIRE	IN 20mms PVC PIPE
4	7 - LIGHTING DEVICES	230	700	3.04	20	2-3.5mm' THEN COPPER WIRE 1-1.5mm' TW GROUND MISE 2-3.5mm' THEN COPPER WIRE 1-3.5mm' TW GROUND MISE	IN 20mms PVC FIFE
5	4 - LIGHTING DEVICES	230	400	1.74	50	2-3.5mm* THHN COPPER WIRE	IN 20mms PVG PIPE
6	6 - LIGHTING DEVICES	230	600	2.61	20	2-J.Smm, THIN COPPER WIRE	IN 20mms PVS PIPE
7	6 - DOHNNE DEVICES 1 - EXHAUST FAN	230	700	3.04	20	2-3.5mm THAN COPPER WRE	IN 20mm# PVC FIFE
8	9 - DUFLEX C.O	230	1620	7.04	20	2-J.5mm, HeW COPPER WRE 1-3.5mm, TW GROLDO MRF 2-3.5mm, HeW CO-PET WRE 1-3.5mm, TW GROLDO MRF	IN 20mm# PVC PEPE
9	SPARE	230	-	-	20		-
10	SPAR.	230	-	-	20	-	
			5370	23.35			
ΙŦ	MPUTATION: = 1,25*2325 = 29.18 AMP		USE	: 100AT,	2P, 230V R . m² THHN	OTECTION: MOULDED CASE CIRCUIT BRE & 1-8.0mm² TW GROUND WIRE	

CKT			100	00.0	Sec	SIZE C	XF.
NO.	LOAD DESCRIPTION	VOLTS	VA	ANP	AT	WIRES	CONDUITS
1	6 - LIGHTING DEVICES	230	600	2.61	20	2-35mm THEN COPPER WIRE 1-35mm TW GROUND WIRE	W 20mm# PVC PIPE
2	1 - EXHAUST TAN 5 - LIGHTING DEMOCES	230	690	2.61	20	2-35mm THEN COPPER WAS 1-35mm TW GROUND WAY	IN 20mmal PVC PIPE
3	11 - DICHTING DEVICES	230	1100	4.78	20	2-J.Smm/ THHII CORPER WIRE 1-35mm/ TW GROUND WIRE	IN 20mm# PVC PIPE
4	11 - LICHTING DEVICES	230	1100	4.78	20	2-James THEN CONTEN WHE 1-35mm TW CHOUND WHE	IN 20mm# PVC PPE
5	4 - DUPLEX C.O.	230	720	3.13	20	2-JSmm THHN COPPER WHE 1-35mm TW GROUND WHE	IN 20mm# PVC PPE
6	5 - DUPLEX C.O.	230	900	3.91	20	2-11000 THEN COPPER WAF	IN Zümma PVC PPE
7	5 - DUPLEX C.O	230	900	3.91	20	1-35mm* DV GROUND WITE 2-35mm* SHAN COPPER WITE 1-35mm* DV GROUND WITE	IN 20mm# PVC PPE
В	SPARE	230	-	-	20	-	
9	SPARE	230	-	-	20	15	
10	SPARE	230	-	-	20		-
			5920	25,73			

IT = 1.25° 25.73

IT = 31.83 AMP

PAGL LOCAT	J ION: SECOND FLOOR						RECESSED WITH ORAY POWDERED MILL IT TERMINAL BLOCK FOR SOLE
CKT						SIZE	×
CKT.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	WIRES	CONDUITS
1	O.8 TR 3.77 HP AIRCON	230	5090	22.00	40	2-5.5mm* THIN COPPER WAS 1-5.5mm* TW CROUND NRSF	IN 25mm# PVC PIPE
2	O.8 TR 3.77 HP ARCON	230	5000	22.00	40	2-3.5mm DHN COPPER WRE	IN JSmmd PVC PIPE
3	OB TR 3.77 HP ARCON	230	5060	22.00	40	2-5.5mm* THIN COPPER WITE	IN 25mm# PVC PIPE
4	CIB TR 3.72 HP AIRCON	230	5050	22.00	40	2-5.5mm* THRN COPPER WHE 1-5.5mm* TW CROUND MITE	N 25mme PVC PIPE
			20240	88.00			

MAIN FESDER: USE: 2 - 30mm² THHN & 1-8.0mm² TW GROUND WIRE IN 32mmØ PVC PIPE

	20240	50.00			
COMPUTATION:	QVE	R CURRENT	PROTECTION.		
IT = 88+(0.25*22)	USE	: 150AT, 2P, 2	230V MOULDED CAS	E CIRCUIT BREAKER	N NEMA 1
		N FEEDER:			
IT = 93.50 AMP.	USE	: 2 - 50mm² 11 IN 40mmØ P	HHN & 1-14.0mm* TV PVC PIPE	GROUND WIRE	

	TING AND POWER PAN TION THIRD FLOOR	EL 3 (LPP	3)				ECESSES WITH GRAY POWDERED MULTI-TERMINAL BLOCK FOR BOLD
CKT.	and the second second	-	1	1.20	¥	SIZE C	NF.
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS
1	7 - LICHING DEVICES 3 - EDIALISE FAN	230	1000	4.35	20	2-35mm, BAN COPPER WIRE 1-35mm, TW CROUND WIRE	IN 20mm# PVC PIPE
2	7 - LICHTING DEVICES	230	700	3.48	20	2-3.5mm TH-W COPPER WIRE	N 20mmt PUC PIPE
3	10 - DIGHTING DEVICES	230	1000	+35	20	1-35mm TW GIG NO WRE 2-35mm TH-W COPPER WRE 1-35mm TW GIG NO WRE	N 20mmd PVC PIPE
4	10 - DEHTING DEWCES	236	1000	+.35	26	2-3.5mm BHW COPPER WIRE 1-3.5mm TW GROUND WAR	N 20mmit PVC PPE
5	4 - DUPLEX C.O	230	720	3,13	30	2-3.5mm* IN W COPPER WHE 1-3.5mm* TW CHOUND WHE	IN 20mm# PVC PIPE
6	4 - DUPLEX C.O	230	720	3.13	20	2-3.5mm* TH-N COPPER WIRE 1-3.5mm* TW GROUND WIRE	N 20mm# PVC PIPE
7	4 - DUPLEX C.O.	230	720	3.13	20	2-3.5mm TH-N COPPER WIRE 1-3.5mm TW GROUND WIRE	N 20mm# PVC PPE
B	SPARE	230	-	-	20	-	-
9	SPARE	230	*	-	20		*
10	SPARE	230	-	-	20	-	-
			5890	25.47			

COMPUTATION:

OVER CURRENT PROTECTION.
USE: 100AT, 2P, 280V MOULDED CASE CIRCUIT BREAKER IN NEMA 1

IT = 1.25* 25.47

IT = 31.84 AMP.

MAIN FEEDER USE: 2-30mm² THHN & 1-8.0mm² TW GROUND WIRE IN 32mmØ PVC PIPE

SCHEDULE OF LOADS

SCALE: NOT TO SCALE SHEET CONTENT SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA **EXTENSION** LOCATION: BARANGAY TALAYAN ,DISTRICT 1, QUEZON CITY

PROJECT TITLE :

DRAWN BY: AND SUBMITTED BY: DATE: June 25, 2021 CHECKED BY: MEC REVISION NO.:

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

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

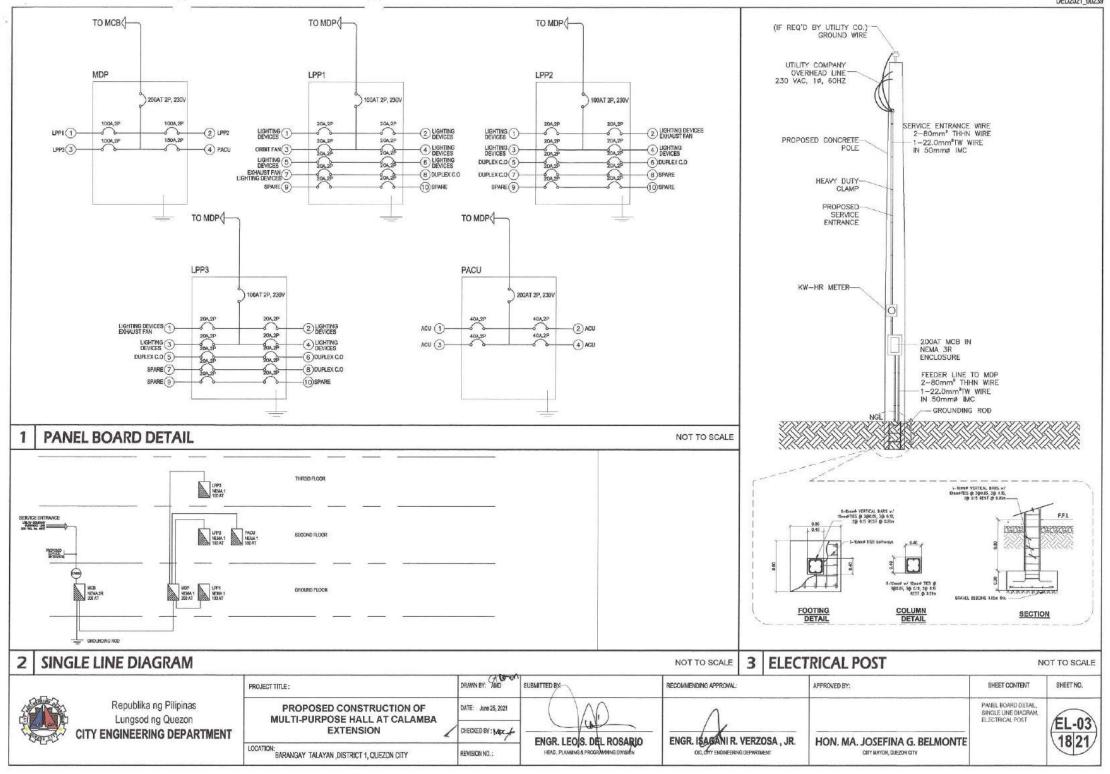
RECOMMENDING APPROVAL:

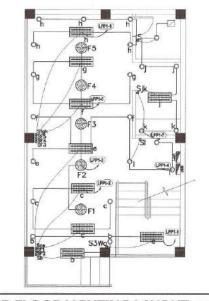
HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

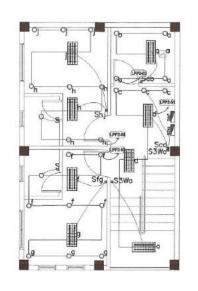
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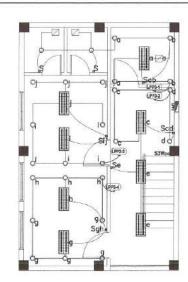
SCHEDULE OF LOADS, PANEL BOARD DETAIL, RISER DIAGRAM, ELECTRICAL POST









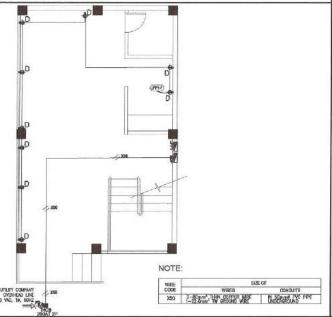


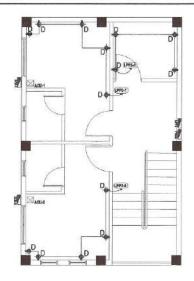
1 GROUND FLOOR LIGHTING LAYOUT SCALE: 1:100 METERS

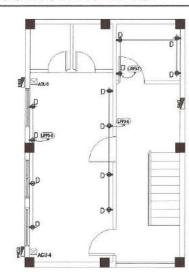
2 SECOND FLOOR LIGHTING LAYOUT SCALE: 1:100 METERS

3 THIRD FLOOR LIGHTING LAYOUT

SCALE: 1:100 METERS







4 GROUND FLOOR POWER LAYOUT

0 METERS

5 SECOND FLOOR POWER LAYOUT

SCALE: 1:100 METERS

RECOMMENDING APPROVAL:

6 THIRD FLOOR POWER LAYOUT

SCALE: 1:100 METERS

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

LOCATION:
BARANGAY TALAYAN, DISTRICT 1, QUEZON CITY

DRAWN BY: AND
SUBMITTED BY:

CHECKED BY: MFC/

CHECKED BY: MFC/

ENGR. LEG S. DEL ROSARIO

REVISION NO:
HEAD, PLANANCE & PROGRAMANIE DIVISION

ENGR. ISAGAMI R. VERZOSA , JR.

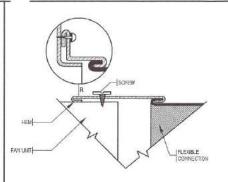
HON. MA. JOSEFINA G. BELMONTE

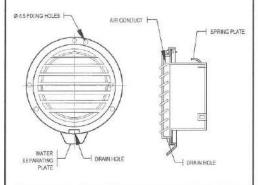
GROUND FLOOR LIGHTIMS
LAYOUT, SECOND FLOOR
LIGHTING LAYOUT,
THIRD FLOOR LIGHTING
LAYOUT, GROUND FLOOR
POWER LAYOUT
SECOND FLOOR POWER
LAYOUT, THIRD FLOOR
POWER LAYOUT,

SHEET CONTENT



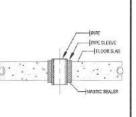
- ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.
- THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS
- THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES, ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED. AT 24°C DB AND 50% RH.
- 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.
- 7. 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.
- PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.
- ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB.
- ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB
- 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.

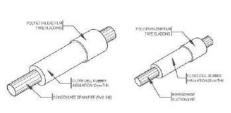


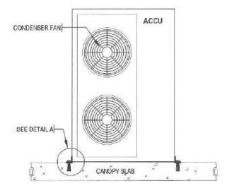


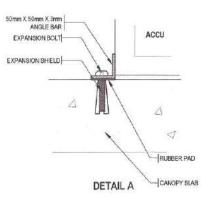
FLEXIBLE CONNECTIONS DETAIL

DUCT CAPS DETAIL 5









GENERAL NOTES

EQUIPMENT DESIGNATION

ELBOW UP

- REFRIGERANT PIPE

- ELBOW DOWN

- WALL MOUNTED INDOOR UNIT

- FAN COIL UNIT

WINDOW TYPE AIR CONDITIONER

AIR COOLED CONDENSING UNIT

PIPE SLEEVES DETAIL

REFRIGERANT/DRAIN 6 PIPE INSULATION DETAIL

ACCU MOUNTING DETAIL

SPLIT TYPE AIR-CONDITIONER AIR-COOLED CONDENSING UNITS

DESIG	SNATION	LOCATION	OHANTITY	COOLING CAPACITY	AID OIDOUR ATION	POWER INPUT	ELEC	TRICAL S	UPPLY	REFRIGE	RANT PIPE	REMARKS			
OUTDOOR		LUCATION	QUANTITY	COOLING CAPACITY	AIR CIRCULATION	AIR CIRCULATION	AIR CIRCULATION	AIR CIRCULATION		VOLTS	PHASE	HERTZ	GAS, cum	LIQUID, cum	FAN COIL UNIT SHALL BE
ACCU)	FCU 1	AS SHOWN ON PLANS	4.SET	9,140 KJ/H	365 CFM	670 W	230.0	10	60.0	6.35	9,52	WALL MOUNTED TYPE CONTRACTOR SUPPLY AND INSTALL			

LEGENDS AND SYMBOLS

EQUIPMENT SCHEDULE

DRAWN BY: JCPT



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE :

LOCATION:

PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA

BARANGAY TALAYAN DISTRICT 1, QUEZON CITY

EXTENSION

8

DATE: June 25, 2021 CHECKED BY : NATC REVISION NO.:

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

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

RECOMMENDING APPROVAL

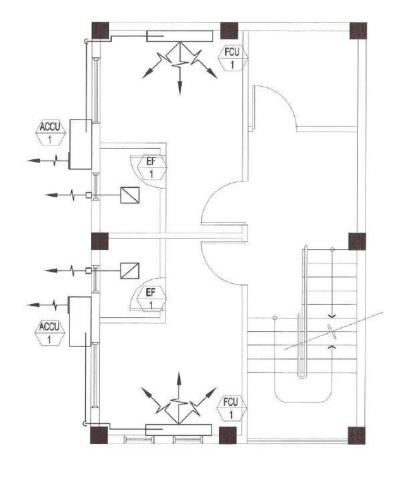
HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

GENERAL MITTS LECENOS AND SSABOLS BOND F COMMITTEEN ACTOR PPE SLEWES CEDAL DOCT CAPS DESIGN ADDS HOUSING DECKL

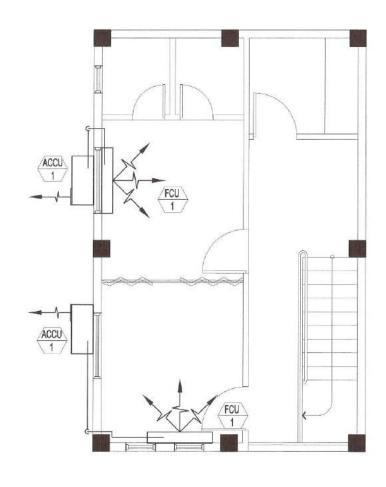
SHEET CONTENT





PROJECT TITLE :

LOCATION:



SECOND FLOOR AIRCONDITIONING AND VENTILATION LAYOUT

SCALE: NTS

THIRD FLOOR AIRCONDITIONING AND VENTILATION LAYOUT

SCALE: NTS

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

BARANGAY TALAYAN , DISTRICT 1, QUEZON CITY

CHECKED BY: **OFFC |

ENGR. LEG S. DEL ROSARIO

REVISION NO.:

HEID. PLANNING & PROGRAMMING DIVISION

2

ENGR. ISAGANI R. VERZOSA , JR.

RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE

APPROVED BY:

SECOND FLOOR LAYOUT
THIRD FLOOR AIRCONDITIONING LAYOUT

ME-02
21
21

SHEET CONTENT

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE: PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL A

CALAMBA EXTENSION

LOCATION : BARANGAY TALAYAN, DISTRICT 1, QUEZON CITY

PROJECT NO. : 21 - 00101

DURATION: One Hundred Eighty (180) Calendar Days

BREAKDOWN OF COST

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL WORKS / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	PLUMBING WORKS				
VI	ELECTRICAL WORKS				
VII	MECHANICAL WORKS				
VIII	UTILITY AND ANCILLARY WORKS				

	TOTAL COST	P
LUMP SUM BID IN WORDS :		
Contractor :		

Bid Form Page 3 of 3

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT_TITLE: PROPOSED CONSTRUCTION OF MULTI-PURPOSE HALL AT CALAMBA EXTENSION

LOCATION : BARANGAY TALAYAN, DISTRICT 1, QUEZON CITY

PROJECT NO. : 21 - 00101

DURATION : One Hundred Eighty (180) Calendar Days

SCOPE OF WORK

- 1 General requirements include temporary facilities and utilities, billboard, scaffolding and construction safety and health and hauling and disposal of demolished materials and debris.
- 2 Site works include site clearing, layout and staking, demolition of existing structure and preparation of earthworks.
- 3 Civil works / structural works include concreting, reinforcement bars, formworks, scaffolding / shoring, masonry works, metal works and roofing works.
- 4 Architectural works include floor finishes, wall finishes, ceiling finishes, supply and installation of doors and windows, painting works, logos and letterings, and carpentry works.
- 5 Sanitary / Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
- 6 Electrical Works include installation of roughing-Ins, wirings, devices and fixtures, and installation of panel board and its accessories.
- 7 Mechanical works include installation of roughing-Ins, devices, fixtures, equipment and accessories.
- 8 Utility and ancillary works include septic tank and electrical posts.
- 9 All necessary testing of materials and commissioning works must be performed as per standard procedures.

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
ı	GENERAL REQUIREMENTS				
	Billboard	1	piece	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	11	t.l.		
	Construction Health and Safety	1	unit		
	Scaffolding (Rental)	172	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	18	l.m.		
	Temporary Lighting and Water Facilities	180	day		
				Direct Cost I	₽
II	SITE WORKS				
Α	Site Clearing and Preparation	43	sq.m.	₱	₱
В	Layout and Staking	43	sq.m.		
С	Demolition Works				
	Concrete Beams, Columns and Footings	18	cu.m.		
	CHB Walls	146	sq.m.		
	Roof Steel Framing	70	sq.m.		
D	Excavation for Structures	35	cu.m.		
				Sub-Total Cost	₽
Е	Gravel Bedding	5	cu.m.	₽	₽
F	Additional Earthfill	24	cu.m.		
				Material Cost	₽
				Labor Cost	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Sub-Total Cost	₱
G	Backfill and Compaction	29	cu.m.	₱	₱
				Sub-Total Cost	₱
				Material Cost II	₱
				Labor Cost II	₱
				Direct Cost II	₽

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
III	CIVIL WORKS / STRUCTURAL WORKS				
A	Concrete Works				
	Site Mix Concrete 21MPa				
	Wall Footing	2	cu.m.	₽	₽
	Slab On Fill	5	cu.m.		
	Stairs	11	cu.m.		
	Canopy	2	cu.m.		
	Countertop	1	cu.m.		
	Site Mix Concrete 28MPa				
	Column Footing	4	cu.m.		
	Footing Tie Beam	3	cu.m.		
	Columns	9	cu.m.		
	Beams	12	cu.m.		
	Suspended Slab	7	cu.m.		
В	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bars including G.I. Tie Wire # 16				
	10mmØ Footing Tie Beam	180	kg		
	10mmØ Wall Footing	21	kg		
	10mmØ Slab-On-Fill	177	kg		
	10mmØ Column	1,208	kg		
	10mmØ Beam	683	kg		
	10mmØ Suspended Slab	1,016	kg		
	10mmØ Stairs	66	kg		
	10mmØ Canopy	57	kg		
	10mmØ Countertop	17	kg		
	12mmØ Wall Footing	29	kg		
	12mmØ Canopy	69	kg		
	12mmØ Stairs	148	kg		
	Grade 60 Reinforcing Steel Bars including G.I. Tie Wire # 16		J		
	16mmØ Column Footing	364	kg		
	16mmØ Footing Tie Beam	404	kg		
	16mmØ Column	1,113	kg		
	16mmØ Beam	1,373	kg		
С	Formworks	,-	<u> </u>		
	Column Footing	12	sq.m.		
	Footing Tie Beam	26	sq.m.		
	Wall Footing	7	sq.m.		
	Columns	110	sq.m.		
	Beams	120	sq.m.		
	Suspended Slabs	73	sq.m.		
	Stairs Stairs	23	sq.m.		
	Canopy	15	sq.m.		
D	Scaffoldings / Shoring		24		
	Column	86	l.m.		
	Beam	115	I.m.		
	Suspended Slab	49	sq.m.		
	Canopy	15	sq.m.		
F		13	34.111.		
E	Masonry Works				

ITEM	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
NO.				2	
	100mm CHB Laying including Mortar, Reinforcement and Two-Face	101	sq.m.		
	Plastering	000			
	150mm CHB Laying including Mortar, Reinforcement and Two-Face	209	sq.m.		
	Plastering				
F	Metal Works				
	Outdoor Grills				
	25mm x 25mm Tubular Bars	838	kg		
	25mm x 50mm Tubular Bars	272	kg		
	Roof Framing				
	10mmØ Round Bar	6.9052	kg		
	50mm x 50mm Angular Bars	583.22	kg		
	50mm x 100mm C-Purlins	187.99	kg		
	75mm x 75mm Angular Bars	5.0471	kg		
	Window Grills				
	25mm x 25mm Tubular Bars	479	kg		
	Stair Railings				
	38mmØ Stainless Steel Pipe	179	kg		
	25mmØ Stainless Steel Pipe	119	kg		
	32mmØ Stainless Steel Flat Bar	14	kg		
	38mmØ Stainless Steel Flat Bar	1	kg		
	12mmØ Round Bar	116	kg		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	4	tank		
	Cut Off Blade	3	piece		
	Grinding Disc Metal	3	piece		
	Oxygen tank Refill	8	tank		
	Welding Rod	4	box		
G	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	44	sq.m.		
	Pre-Painted G.I. End Flashing	20	l.m.		
	Roofing insulation, 6mm thick	47	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	9	l.m.		
	Tekscrew	212	piece		
	Silicon Sealant	5	tube		
F	Thermal and Moisture Protection				
	Cementitous Capillary Type Waterproofing	19	sq.m.		
				Material Cost III	₱
				Labor Cost III	₱
				Direct Cost III	₽
n,	ADCHITECTUDAL WORKS				
IV ^	ARCHITECTURAL WORKS				
Α	Floor Finishes	4-7		8	
	300mm x 300mm Non Skid Homogeneous Floor Tiles (Comfort Room)	17	sq.m.	₽	₽
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	113	sq.m.		
	Stair Nosing (rubber)	33	l.m.		
В	Wall Finishes				
	300mm x 300mm Homogeneous Wall Tiles (Comfort Room)	49	sq.m.		
	300mm x 300mm Homogeneous Wall Tiles (Countertop Splashboard)	12	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Plastering Guide / Grooves	66	l.m.		
С	Ceiling Finishes				
	6mm Thick Fibercement Board on Metal Frame	119	sq.m.		
				Material Cost	₱
				Labor Cost	₱
				Sub-Total Cost	₽
D	Supply and Installation of Doors				
	D1 - 2.10m x 0.80m Panel Door with View Panel and Transom	6	set	₽	₽
	D2 - 2.10m x 0.60m PVC Door	5	set		
	Accordion Wall Including Hardware and Accessories	1	set		
	Door Jambs				
	D1 - 2.10m x 0.80m Wooden Jamb	6	piece		
	Hardwares and Accessories				
	Door Hinge, Stainless	33	piece		
	Door Knob, Lever Type	11	set		
Е	Supply and Installation of Windows				
	W1 - 1.20m x 1.20m Sliding Window with Fixed Glass	4	set		
	W2 - 0.50m x 1.60m Awning Type Window	4	set		
	W3 - 0.50m x 0.40m Awning Type Window	4	set		
				Material Cost	₽
				Labor Cost	₽
				Sub-Total Cost	₽
F	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	265	sq.m.	₱	₽
	Flat Latex Paint Finish		-		
	Interior Wall	240	sq.m.		
	Ceiling	119	sq.m.		
	Epoxy Enamel Finish				
	Steel Members	105	sq.m.		
G	Logos and Lettering		-		
	QC Logo	1	set		
	Stainless Steel Lettering with Neon Backlight				
	"TALAYAN MULTI-PURPOSE HALL" (0.30m)	23	set		
Н	Carpentry Works				
	Overhang Cabinet with Undercounter Cabinet (1.40m Span)	1	set		
	Overhang Cabinet with Undercounter Cabinet (1.75m Span)	2	set		
				Material Cost	₱
				Labor Cost	₽
				Sub-Total Cost	₱
				Material Cost IV	₽
				Labor Cost IV	P
				Direct Cost IV	P
				5.1001 0031 IV	
		i i	•		i .
V	PLUMBING WORKS				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	100 Ø, PVC Pipe	19	piece	₽	₱
	75 Ø, PVC Pipe	15	piece		
	50 Ø, PVC Pipe	13	piece		
	100 Ø x 100 Ø, Wye,	10	piece		
	100 Ø x 75 Ø, Wye	6	piece		
	100 Ø x 50 Ø, Wye	17	piece		
	75 Ø x 50 Ø, Tee	31	piece		
	50 Ø x 50 Ø, Tee	31	piece		
	100 Ø, 1/4 Bend	8	piece		
	75 Ø, 1/4 Bend	46	piece		
	50 Ø, 1/4 Bend	15	piece		
	100 Ø, 1/8 Bend	13	piece		
	75 Ø, 1/8 Bend	6	piece		
	50 Ø, 1/8 Bend	15	piece		
	Cleanout 100 Ø	8	piece		
	Cleanout 50 Ø	4	piece		
	P-Trap 50 Ø	9	piece		
	Reducer 100 Ø x 75 Ø	6	piece		
В	Waterline System				
	25 Ø, PPR Pipe	10	piece		
	25 Ø x 25 Ø, Tee Equal	21	piece		
	25 Ø, End Cap	15	piece		
	25 Ø, 90 Deg Elbow	26	piece		
	25 Ø, Union Patent	3	piece		
	25 Ø x 3/4" Ø, Female Thread Tee	15	piece		
	25 Ø, Coupling	8	piece		
	25 Ø, Male Adaptor	3	piece		
С	Valves and Appurtenances				
	25 Ø, Gate Valve	1	piece		
	25 Ø, Check Valve	1	piece		
	25 Ø, Water Meter	1	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
D	Fixtures				
	Bidet with Accessories, Stainless (Water Efficient)	5	set		
	Floor Drain, 100mm x 100mm Stainless Steel	5	piece		
	Grease Trap, 5GPM Stainless Steel Heavy Duty	3	set		
	Hose Bibb, Heavy Duty, Lever Type (Water Efficient)	2	set		
	Kitchen Sink Faucet, Stainless Steel Heavy Duty (Water Efficient)	3	piece		
	Kitchen Sink, Stainless Double	3	set		
	Lavatory Faucet, Lever Type, Stainless Steel Heavy Duty (Water Efficient)	5	piece		
	Lavatory Wall Hung	5	set		
	Telephone Shower (Water Efficient)	5	set		
	Water Closet, Tank Type w/ Accessories (Water Efficient)	5	set		
Е	Accessories				
	6mm Thick Facial Mirror	5	set		
	Flexible Hose, Stainless	15	piece		
	Single-Way Angle Valve, Stainless	10	piece		
	Soap Dispenser, Stainless	5	set		
	Toilet Tissue Holder, Stainless	5	set		
	Two-Way Angle Valve, Stainless	5	piece		
F	Miscellaneous & Consumables		Fiees		
	400cc Solvent Cement	5	can		
	All-Around Sealant	2	can		
	Hacksaw Blade	5	piece		
	Teflon Tape	6	roll		
	Waste Cloth	2	kg		
	Waste Gloth		Ng	Material Cost V	₽
				Labor Cost V	₽
-				Direct Cost V	₽
				Direct Cost v	Г
VI	ELECTRICAL WORKS				
Α	Roughing-ins				
	20mmØ PVC Pipe	300	piece	₽	₽
	25mmØ PVC Pipe	50	piece		
	32mmØ PVC Pipe	6	piece		
	40mmØ PVC Pipe	2	piece		
	50mmØ PVC Pipe	5	piece		
	50mmØ IMC Pipe	2	piece		
	Fittings and Accessories		Picce		
	50mmØ IMC Locknut and Bushing	4	pair		
	20mmØ PVC Flexible Tube	1	roll		
	20mmØ PVC Adaptor	320	piece		
	25mmØ PVC Adaptor	40	piece		
	32mmØ PVC Adaptor	10	piece		
	40mmØ PVC Adaptor	4	-		
	·	-	piece		
	50mmØ PVC Adaptor	5	piece		
	40mmØ PVC Elbow	2	piece		
	50mmØ PVC Elbow	4	piece		
	20mmØ PVC Locknut and Bushing	320	pair		
	25mmØ PVC Locknut and Bushing	40	pair		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	32mmØ PVC Locknut & Bushing	10	pair		
	40mmØ PVC Locknut & Bushing	4	pair		
	50mmØ PVC Locknut & Bushing	10	pair		
	50mm x 100mm PVC Utility Box	70	piece		
	100mm x 100mm PVC Junction Box with cover	150	piece		
	100mm x 100mm PVC Utility Box (Pullbox)	30	piece		
	50mmØ Weatherproof Entrance Cap, Diecast type	1	piece		
	20mm Ø x 3000mm Grounding Rod (Copper Clod)	1	piece		
	w/ Ground Clamp				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
В	Wires and Cables				
	3.5mm² THHN Wire	12	roll		
	5.5mm² THHN Wire	1	roll		
	30mm² THHN Wire	80	l.m.		
	50mm² THHN Wire	40	l.m.		
	80mm² THHN Wire	80	l.m.		
	3.5mm² TW Wire	6	roll		
	5.5mm² TW Wire	1	roll		
	8.0mm² TW Wire	40	l.m.		
	14.0mm ² TW Wire	20	l.m.		
	22.0mm² TW Wire	40	l.m.		
С	Lighting Fixtures (Energy Effiecient)				
	T8, 20W Tube light	50	piece		
	9W 100mmØ Round Recessed Pinlight	73	piece		
	100mmØ Round Recessed Pinlight (case)	73	piece		
	600mm x 1200mm, for 2 x 18w LED, Troffer Type, w/	25	piece		
	complete accessories, recessed type fixture only				
D	Wiring Devices and other fixtures				
	25mm Exhaust Fan 40W	5	piece		
	Outlet with Gounding, Two-gang	35	piece		
	Orbit Fan with Selector Switch	5	piece		
	Switch w/ plate & cover, Three way	4	piece		
	Switch w/ plate & cover, Single Gang	8	piece		
	Switch w/ plate & cover, Two Gang	10	piece		
	Switch w/ plate & cover, Three Gang	1	piece		
Е	Panelboard				
	Main Circuit Breaker				
	Main: 200AT, 2P, 230V, MCCB	1	assy		
	Enclosure: NEMA 3 with Ground Terminals				
	Main Distribution Panel				
	Main: 200AT, 2P, 230V, 100 KAIC, Bolt-on	1	assy		
	Branches: 3-100AT, 2P, 230V, MCB				
	1-150AT, 2P, 230V, MCB				
	Enclosure: NEMA 1 with Ground Terminals				
	LPP1				
	Main: 100AT, 2P, 230V, 25 KAIC, Bolt-on	1	assy		
	Branches: 10-20AT, 2P, 230V, MCB	'			
	Enclosure: NEMA 1 with Ground Terminals				
	LPP2				
	Main: 100AT, 2P, 230V, 25 KAIC, Bolt-on	1	assy		
	Branches: 10-20AT, 2P, 230V, MCB	'	,		
	Enclosure: NEMA 1 with Ground Terminals				
	LPP3				
		1	assy		
	Main: 100AT, 2P, 230V, 25 KAIC, Bolt-on	'	accy		
	Branches: 10-20AT, 2P, 230V, MCB Enclosure: NEMA 1 with Ground Terminals				
	PACU Main: 150AT, 2P, 230V, 35 KAIC, Bolt-on	1	assy		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Branches: 4-40AT, 2P, 230V, MCB				
	Enclosure: NEMA 1 with Ground Terminals				
	Enclosed Circuit Breaker				
	Main: 40AT, 2P, 230V, MCB	4	assy		
	Enclosure: NEMA 3 with Ground Terminals				
F	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	10	l.m.		
	Vertical layout of Pipe	5	l.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
G	Miscellaneous & Consumables				
	400cc Solvent Cement	10	can		
	Electrical Tape	20	roll		
	G.I. Tie Wire Ga. 16 (for cable pulling)	4	kg		
	Hacksaw Blade	10	piece		
	Masking Tape	2	roll		
	Pulling Lubricant	1	can		
	Rubber Tape	2	roll		
	Torch w/ Butane	2	set		
				Material Cost VI	₽
				Labor Cost VI	₽
				Direct Cost VI	₽
\/!!	MECHANICAL WORKS				
VII A	MECHANICAL WORKS VENTILATION AND AIRCONDIONING SYSTEM				
1	Refrigerant Pipe System		-		
Į.	Refrigerant Pipe System				
	Roughing-Ins				
		20	l.m.	₽	₽
	6.35mm Ø Copper Coil Tubing Insulation	20	1.111.	P	P
	6.35mm Ø x 15.6mm thick Rubber Foam Insulation	20	l.m.		
		20	1.111.		
	Condensate Water Drainage System				
	Roughing-Ins 16mm Ø x 3m uPVC Pipe	20	niana		
	16mm Ø x 3m uPVC Pipe	20	piece		
		14	piece		
	Insulation 16mmØ x 12mm thick Rubber Foam Insulation		1		
	Tommo x 12mm thick Rubber Foam insulation	60	l.m.	Material Cost	₽
				Labor Cost	₽
				Sub-Total Cost	
				Sub-Total Cost	P
2	Mechanical Equipment	+			
	Split-type Air Conditioning Unit				
	0.80 TR, 240 cfm, 880 W, 230/1/60, R410a,	4	unit	₽	₽
	0.60 TK, 240 GHI, 660 W, 250/1/60, K410a, 1/4" Ø L, 3/8" Ø G	4	unit		F
	1/4 & L, 3/6 & G			Material Cost	₽
				Labor Cost	P P
				Sub-Total Cost	P
				Sub-Total Cost	Г
3	Pipe Hangers and Supports				
	1 1/2" Ø Clevis Hanger	12	piece	₽	₽
	Rectangular Duct Support with Hanger	12	piece		
	1-1/4" Ø Pipe Clamp	12	piece		
	1/4" x 4" U-Bolt with Nut and Washer	16	piece		
	Fabricated Condenser Wall Mounted Support	4	piece		
	with Accessories				
	Vibration Isolator	16	piece		
				Material Cost	₽

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost	₱
				Sub-Total Cost	₽
				Material Cost VII	₽
				Labor Cost VII	₽
				Direct Cost VII	₱
VIII	UTILITY AND ANCILLARY WORKS				
	UTILITIES AND ANCILLARIES				
	Septic Tank	4	cu.m.	₽	₱
	Electrical Post	1	unit		
				Direct Cost VIII	₱

SUMMARY

ITEM NO	WORK DESCRI	PTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS		₱
П	SITE WORKS		
III	CIVIL WORKS / STRUCTURAL WORKS		
IV	ARCHITECTURAL WORKS		
V	PLUMBING WORKS		
VI	ELECTRICAL WORKS		
VII	MECHANICAL WORKS		
VIII	UTILITY AND ANCILLARY WORKS		
	Overhead, Conting enforce health protocols relative to the latest will ble DPWH Memorandum.	TOTAL DIRECT COST ngencies and Miscellaneous and Consumables Expenses (OCM) Profit VAT	Đ
		TOTAL ESTIMATED COST	₽

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

<u>Leg</u>	al Do	<u>cuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
		<u>and</u>
	(b)	Registration certificate from Securities and Exchange Commission (SEC),
		Department of Trade and Industry (DTI) for sole proprietorship, or
		Cooperative Development Authority (CDA) for cooperatives or its equivalent
		document;
_	(a)	and Mayor's or Dysinoss normit issued by the city or municipality where the
Ш	(c)	Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the
		equivalent document for Exclusive Economic Zones or Areas;
		and
П	(e)	Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by
	` /	the Bureau of Internal Revenue (BIR).
<u>Tec</u>	hnica	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
	(g)	and Consultancy); and Statement of the bidder's Single Largest Completed Contract (SLCC) similar
Ш	(g)	to the contract to be bid, except under conditions provided under the rules with
		an attached Notice of Award, Notice to Proceed, Contract and Certificate of
		Acceptance (please see attached prescribed form required by the QC – BAC
		for Infrastructure and Consultancy); and
	(h)	Philippine Contractors Accreditation Board (PCAB) License;
		<u>or</u>
		Special PCAB License in case of Joint Ventures;
		and registration for the type and cost of the contract to be bid; and
	(i)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a
		certification issued by the Insurance Commission;
		original copy of Notarized Bid Securing Declaration; and
	(j)	Project Requirements, which shall include the following:
П	(J)	a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel (e.g., Project Manager, Project
ш		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:

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

¹ currently based on GPPB Resolution No. 09-2020

- 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].
- I. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

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

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

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

[Jurat]

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.
- 2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:
 - a. Philippine Bidding Documents (PBDs);
 - 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. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
- In consideration for the sum of [total contract price in words and figures] or such
 other sums as may be ascertained, [Named of the bidder] agrees to [state the
 object of the contract] in accordance with his/her/its Bid.

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

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

[Insert Name and Signature] [Insert Name and Signature] [Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]

for:

for:

[Insert Procuring Entity] [Insert Name of Supplier]

<u>Acknowledgment</u>

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINE	S)
CITY/MUNICIPALITY OF	18.8

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:
- [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:
 - Carefully examining all of the Bidding Documents;
 - 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].
- [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.

IN	WITNESS	WHEREOF,	1	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]

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;
- 3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

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

[Jurat]

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

PROJECT TITLE					CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	TOTAL	PERCE	NTAGE	The second secon
(Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	(SOLE CONTRACTOR, SUBCONTRACTOR,	VALUE AT	COMPLETION or ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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NAME OF CONTRACTOR: PROJECT TITLE: _____ ROLE OF BIDDER IN THE CONTRACT PRICE MAJOR SCOPE OF WORKS & DATE NAME AND ADDRESS DATE OF SCHEDULED **CONTRACT SOLE** 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 DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETIONTIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

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LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:	
PROJECT TITLE:	

STATUS OF VAILABILITY (NED/LEASED)

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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.

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COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:				
	CURRENT ASSETS*		РНР	
	(LESS) CURRENT LIABILITIES*	(LESS)	PHP	
	NETWORTH		PHP	
	NETWORTH x 15	x 15	PHP	
	(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	PHP	
	(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP	
	NET FINANCIAL CONTRACTING CAPACITY		PHP	

NOTES:

^{*} CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

^{**} BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

REPUBLIC (OF THE	PHILII	PPINES)							
¥) S. S.							
			AFFIDA	VIT OF U	JNDE	RTA	KING			
I, _ REPRESENT	TATIVE	1		of	legal	age,	Filipino,	-	[OFFICER	OR
with office a	ddress duly sv	at vorn to i	n accordance	with law,	hereby	volun	itary depos	se and sta	ate:	after
That	I am d	uly auti		esentative o	of the _	Nam	e of Bidde	er	to execute	this
That	IN	ame of l	Bidder] bi	dding for tl	ne (Nai	me of l	Project)			
that t	he equ	ipment t	aforemention to be use and the said pro	the key pe	rsonne	l to be	assign sha	r]her ll exclusi	eby undertak ively be used	e and
That with	I am ex the sub	ecuting mission	this affidavit of the techni	to attest to cal require	the tri	ath of t	the foregoi public bid	ng and in Iding of t	n compliance the said projec	et.
IN V	VITNE:	SS HER	EOF, I hav	e hereunto	ə sign	ed m	y name b	elow th	nis	day
AFFL	ANT FI	JRTHEI	R SAYETH N	AUGHT.						
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